



Lea County, NM (NAD 27 NME)

Ruby 2 Fed Com #702H

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: #702H

Ground Level: 3304.0
KB = 25' @ 3329.0usft
Northing: 393590.00 Easting: 775148.00 Latitude: 32° 4' 44.329 N Longitude: 103° 26' 41.990 W

SECTION DETAILS

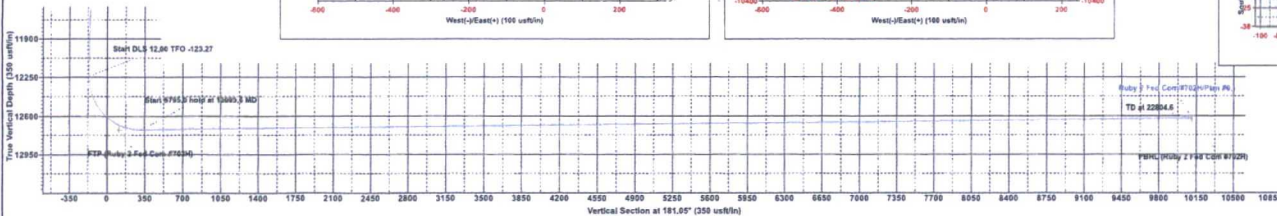
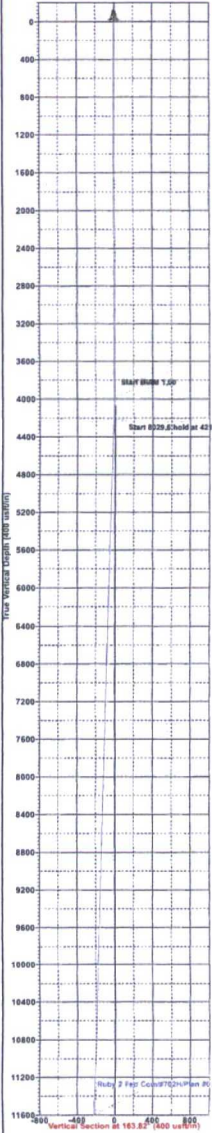
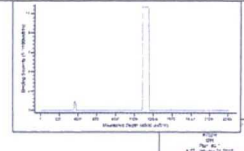
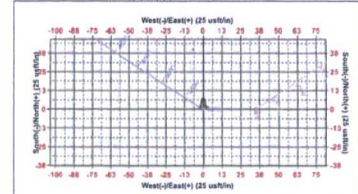
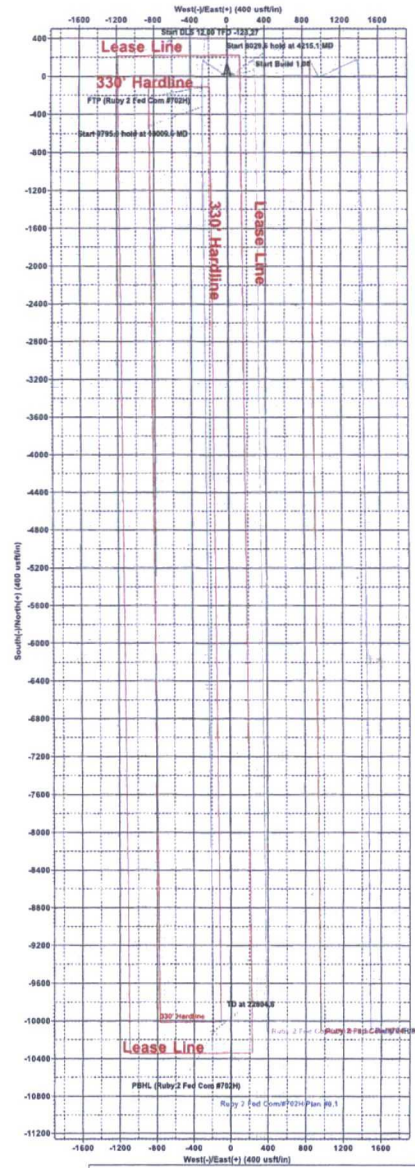
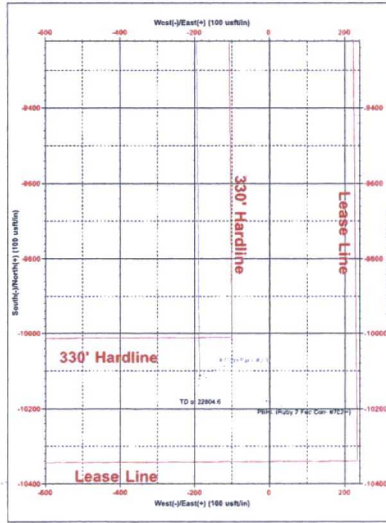
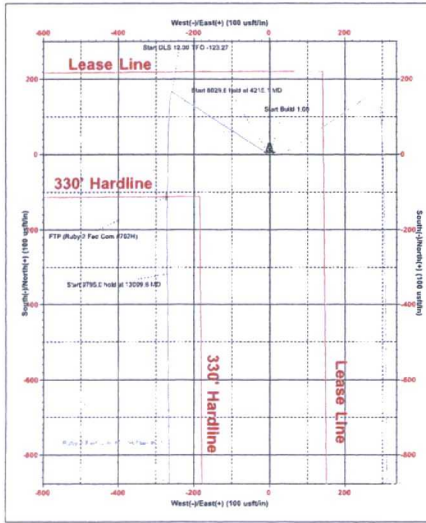
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4215.1	2.15	302.83	4215.1	2.2	-3.4	1.00	302.83	-2.1	
4	12244.7	2.15	302.83	12239.0	165.6	-256.6	0.00	0.00	-160.8	
5	13009.6	90.60	179.52	12726.0	-316.9	-268.1	12.00	-123.27	321.8	
6	22804.6	90.60	179.52	12623.5	-10111.0	-186.0	0.00	6.00	10112.7	PBHL (Ruby 2 Fed Com #702H)

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 #702H)	12623.5	-10111.0	-186.0	383479.00	774962.00
FTP (Ruby 2 Fed Com #702H)	12726.0	-112.0	-271.0	393478.00	774877.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Ruby 2 Fed Com

#702H

OH

Plan: Plan #0.1

Standard Planning Report

24 January, 2017

HOBBS OCD

JUL 10 2017

RECEIVED



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

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 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	#702H					
Well Position	+N/-S	0.0 usft	Northing:	393,590.00 usft	Latitude:	32° 4' 44.329 N
	+E/-W	0.0 usft	Easting:	775,148.00 usft	Longitude:	103° 26' 41.990 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,304.0 usft	

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/23/2017	6.93	59.95	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	181.05

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	
4,215.1	2.15	302.83	4,215.1	2.2	-3.4	1.00	1.00	0.00	302.83	
12,244.7	2.15	302.83	12,239.0	165.6	-256.6	0.00	0.00	0.00	0.00	
13,009.6	90.60	179.52	12,726.0	-316.9	-268.1	12.00	11.56	-16.12	-123.27	
22,804.6	90.60	179.52	12,623.5	-10,111.0	-186.0	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: #702H
 Wellbore: OH
 Design: Plan #0.1

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)
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	302.83	4,100.0	0.5	-0.7	-0.5	1.00	1.00	0.00
4,200.0	2.00	302.83	4,200.0	1.9	-2.9	-1.8	1.00	1.00	0.00
4,215.1	2.15	302.83	4,215.1	2.2	-3.4	-2.1	1.00	1.00	0.00
4,300.0	2.15	302.83	4,299.9	3.9	-6.1	-3.8	0.00	0.00	0.00
4,400.0	2.15	302.83	4,399.8	6.0	-9.2	-5.8	0.00	0.00	0.00
4,500.0	2.15	302.83	4,499.7	8.0	-12.4	-7.8	0.00	0.00	0.00
4,600.0	2.15	302.83	4,599.7	10.0	-15.5	-9.7	0.00	0.00	0.00
4,700.0	2.15	302.83	4,699.6	12.1	-18.7	-11.7	0.00	0.00	0.00
4,800.0	2.15	302.83	4,799.5	14.1	-21.8	-13.7	0.00	0.00	0.00
4,900.0	2.15	302.83	4,899.5	16.1	-25.0	-15.7	0.00	0.00	0.00
5,000.0	2.15	302.83	4,999.4	18.2	-28.1	-17.6	0.00	0.00	0.00
5,100.0	2.15	302.83	5,099.3	20.2	-31.3	-19.6	0.00	0.00	0.00
5,200.0	2.15	302.83	5,199.3	22.2	-34.5	-21.6	0.00	0.00	0.00



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Site: Ruby 2 Fed Com
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Design: Plan #0.1

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	2.15	302.83	5,299.2	24.3	-37.6	-23.6	0.00	0.00	0.00
5,400.0	2.15	302.83	5,399.1	26.3	-40.8	-25.5	0.00	0.00	0.00
5,500.0	2.15	302.83	5,499.0	28.3	-43.9	-27.5	0.00	0.00	0.00
5,600.0	2.15	302.83	5,599.0	30.4	-47.1	-29.5	0.00	0.00	0.00
5,700.0	2.15	302.83	5,698.9	32.4	-50.2	-31.5	0.00	0.00	0.00
5,800.0	2.15	302.83	5,798.8	34.4	-53.4	-33.5	0.00	0.00	0.00
5,900.0	2.15	302.83	5,898.8	36.5	-56.5	-35.4	0.00	0.00	0.00
6,000.0	2.15	302.83	5,998.7	38.5	-59.7	-37.4	0.00	0.00	0.00
6,100.0	2.15	302.83	6,098.6	40.5	-62.8	-39.4	0.00	0.00	0.00
6,200.0	2.15	302.83	6,198.6	42.6	-66.0	-41.4	0.00	0.00	0.00
6,300.0	2.15	302.83	6,298.5	44.6	-69.1	-43.3	0.00	0.00	0.00
6,400.0	2.15	302.83	6,398.4	46.7	-72.3	-45.3	0.00	0.00	0.00
6,500.0	2.15	302.83	6,498.3	48.7	-75.5	-47.3	0.00	0.00	0.00
6,600.0	2.15	302.83	6,598.3	50.7	-78.6	-49.3	0.00	0.00	0.00
6,700.0	2.15	302.83	6,698.2	52.8	-81.8	-51.2	0.00	0.00	0.00
6,800.0	2.15	302.83	6,798.1	54.8	-84.9	-53.2	0.00	0.00	0.00
6,900.0	2.15	302.83	6,898.1	56.8	-88.1	-55.2	0.00	0.00	0.00
7,000.0	2.15	302.83	6,998.0	58.9	-91.2	-57.2	0.00	0.00	0.00
7,100.0	2.15	302.83	7,097.9	60.9	-94.4	-59.2	0.00	0.00	0.00
7,200.0	2.15	302.83	7,197.8	62.9	-97.5	-61.1	0.00	0.00	0.00
7,300.0	2.15	302.83	7,297.8	65.0	-100.7	-63.1	0.00	0.00	0.00
7,400.0	2.15	302.83	7,397.7	67.0	-103.8	-65.1	0.00	0.00	0.00
7,500.0	2.15	302.83	7,497.6	69.0	-107.0	-67.1	0.00	0.00	0.00
7,600.0	2.15	302.83	7,597.6	71.1	-110.2	-69.0	0.00	0.00	0.00
7,700.0	2.15	302.83	7,697.5	73.1	-113.3	-71.0	0.00	0.00	0.00
7,800.0	2.15	302.83	7,797.4	75.1	-116.5	-73.0	0.00	0.00	0.00
7,900.0	2.15	302.83	7,897.4	77.2	-119.6	-75.0	0.00	0.00	0.00
8,000.0	2.15	302.83	7,997.3	79.2	-122.8	-76.9	0.00	0.00	0.00
8,100.0	2.15	302.83	8,097.2	81.2	-125.9	-78.9	0.00	0.00	0.00
8,200.0	2.15	302.83	8,197.1	83.3	-129.1	-80.9	0.00	0.00	0.00
8,300.0	2.15	302.83	8,297.1	85.3	-132.2	-82.9	0.00	0.00	0.00
8,400.0	2.15	302.83	8,397.0	87.4	-135.4	-84.8	0.00	0.00	0.00
8,500.0	2.15	302.83	8,496.9	89.4	-138.5	-86.8	0.00	0.00	0.00
8,600.0	2.15	302.83	8,596.9	91.4	-141.7	-88.8	0.00	0.00	0.00
8,700.0	2.15	302.83	8,696.8	93.5	-144.8	-90.8	0.00	0.00	0.00
8,800.0	2.15	302.83	8,796.7	95.5	-148.0	-92.8	0.00	0.00	0.00
8,900.0	2.15	302.83	8,896.6	97.5	-151.2	-94.7	0.00	0.00	0.00
9,000.0	2.15	302.83	8,996.6	99.6	-154.3	-96.7	0.00	0.00	0.00
9,100.0	2.15	302.83	9,096.5	101.6	-157.5	-98.7	0.00	0.00	0.00
9,200.0	2.15	302.83	9,196.4	103.6	-160.6	-100.7	0.00	0.00	0.00
9,300.0	2.15	302.83	9,296.4	105.7	-163.8	-102.6	0.00	0.00	0.00
9,400.0	2.15	302.83	9,396.3	107.7	-166.9	-104.6	0.00	0.00	0.00
9,500.0	2.15	302.83	9,496.2	109.7	-170.1	-106.6	0.00	0.00	0.00
9,600.0	2.15	302.83	9,596.2	111.8	-173.2	-108.6	0.00	0.00	0.00
9,700.0	2.15	302.83	9,696.1	113.8	-176.4	-110.5	0.00	0.00	0.00
9,800.0	2.15	302.83	9,796.0	115.8	-179.5	-112.5	0.00	0.00	0.00
9,900.0	2.15	302.83	9,895.9	117.9	-182.7	-114.5	0.00	0.00	0.00
10,000.0	2.15	302.83	9,995.9	119.9	-185.8	-116.5	0.00	0.00	0.00
10,100.0	2.15	302.83	10,095.8	121.9	-189.0	-118.5	0.00	0.00	0.00
10,200.0	2.15	302.83	10,195.7	124.0	-192.2	-120.4	0.00	0.00	0.00
10,300.0	2.15	302.83	10,295.7	126.0	-195.3	-122.4	0.00	0.00	0.00
10,400.0	2.15	302.83	10,395.6	128.1	-198.5	-124.4	0.00	0.00	0.00
10,500.0	2.15	302.83	10,495.5	130.1	-201.6	-126.4	0.00	0.00	0.00
10,600.0	2.15	302.83	10,595.4	132.1	-204.8	-128.3	0.00	0.00	0.00



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10,700.0	2.15	302.83	10,695.4	134.2	-207.9	-130.3	0.00	0.00	0.00
10,800.0	2.15	302.83	10,795.3	136.2	-211.1	-132.3	0.00	0.00	0.00
10,900.0	2.15	302.83	10,895.2	138.2	-214.2	-134.3	0.00	0.00	0.00
11,000.0	2.15	302.83	10,995.2	140.3	-217.4	-136.2	0.00	0.00	0.00
11,100.0	2.15	302.83	11,095.1	142.3	-220.5	-138.2	0.00	0.00	0.00
11,200.0	2.15	302.83	11,195.0	144.3	-223.7	-140.2	0.00	0.00	0.00
11,300.0	2.15	302.83	11,295.0	146.4	-226.8	-142.2	0.00	0.00	0.00
11,400.0	2.15	302.83	11,394.9	148.4	-230.0	-144.1	0.00	0.00	0.00
11,500.0	2.15	302.83	11,494.8	150.4	-233.2	-146.1	0.00	0.00	0.00
11,600.0	2.15	302.83	11,594.7	152.5	-236.3	-148.1	0.00	0.00	0.00
11,700.0	2.15	302.83	11,694.7	154.5	-239.5	-150.1	0.00	0.00	0.00
11,800.0	2.15	302.83	11,794.6	156.5	-242.6	-152.1	0.00	0.00	0.00
11,900.0	2.15	302.83	11,894.5	158.6	-245.8	-154.0	0.00	0.00	0.00
12,000.0	2.15	302.83	11,994.5	160.6	-248.9	-156.0	0.00	0.00	0.00
12,100.0	2.15	302.83	12,094.4	162.6	-252.1	-158.0	0.00	0.00	0.00
12,200.0	2.15	302.83	12,194.3	164.7	-255.2	-160.0	0.00	0.00	0.00
12,244.7	2.15	302.83	12,239.0	165.6	-256.6	-160.8	0.00	0.00	0.00
12,250.0	1.88	286.44	12,244.3	165.7	-256.8	-160.9	12.00	-5.14	-310.12
12,275.0	3.04	215.76	12,269.3	165.2	-257.6	-160.5	12.00	4.65	-282.73
12,300.0	5.74	197.73	12,294.2	163.5	-258.4	-158.7	12.00	10.80	-72.08
12,325.0	8.64	191.46	12,319.0	160.5	-259.1	-155.7	12.00	11.60	-25.09
12,350.0	11.59	188.34	12,343.6	156.2	-259.9	-151.4	12.00	11.80	-12.47
12,375.0	14.56	186.48	12,368.0	150.5	-260.6	-145.7	12.00	11.88	-7.45
12,400.0	17.54	185.24	12,392.0	143.7	-261.3	-138.8	12.00	11.92	-4.97
12,425.0	20.53	184.35	12,415.6	135.5	-261.9	-130.7	12.00	11.94	-3.56
12,450.0	23.52	183.68	12,438.8	126.2	-262.6	-121.3	12.00	11.96	-2.69
12,475.0	26.51	183.15	12,461.4	115.6	-263.2	-110.8	12.00	11.97	-2.11
12,500.0	29.50	182.72	12,483.5	103.9	-263.8	-99.1	12.00	11.97	-1.71
12,525.0	32.50	182.36	12,504.9	91.1	-264.4	-86.2	12.00	11.98	-1.42
12,550.0	35.49	182.06	12,525.7	77.1	-264.9	-72.2	12.00	11.98	-1.21
12,575.0	38.49	181.80	12,545.6	62.1	-265.4	-57.2	12.00	11.98	-1.04
12,600.0	41.49	181.57	12,564.8	46.0	-265.9	-41.1	12.00	11.99	-0.91
12,625.0	44.48	181.37	12,583.1	29.0	-266.3	-24.1	12.00	11.99	-0.81
12,650.0	47.48	181.19	12,600.4	11.0	-266.7	-6.1	12.00	11.99	-0.73
12,675.0	50.48	181.02	12,616.8	-7.9	-267.1	12.8	12.00	11.99	-0.66
12,700.0	53.47	180.87	12,632.2	-27.5	-267.4	32.5	12.00	11.99	-0.61
12,725.0	56.47	180.73	12,646.6	-48.0	-267.7	52.9	12.00	11.99	-0.56
12,750.0	59.47	180.60	12,659.8	-69.2	-268.0	74.1	12.00	11.99	-0.52
12,775.0	62.47	180.48	12,672.0	-91.1	-268.2	96.0	12.00	11.99	-0.49
12,800.0	65.47	180.36	12,682.9	-113.5	-268.3	118.4	12.00	11.99	-0.47
12,815.5	67.32	180.29	12,689.1	-127.7	-268.4	132.6	12.00	11.99	-0.45
FTP (Ruby 2 Fed Com #702H)									
12,825.0	68.46	180.25	12,692.7	-136.5	-268.5	141.4	12.00	11.99	-0.44
12,850.0	71.46	180.14	12,701.3	-160.0	-268.5	164.9	12.00	11.99	-0.43
12,875.0	74.46	180.04	12,708.6	-183.9	-268.6	188.8	12.00	11.99	-0.41
12,900.0	77.46	179.94	12,714.7	-208.2	-268.6	213.1	12.00	11.99	-0.40
12,925.0	80.46	179.84	12,719.5	-232.7	-268.5	237.6	12.00	11.99	-0.39
12,950.0	83.46	179.75	12,723.0	-257.4	-268.4	262.3	12.00	11.99	-0.38
12,975.0	86.46	179.65	12,725.2	-282.3	-268.3	287.2	12.00	11.99	-0.38
13,000.0	89.45	179.56	12,726.0	-307.3	-268.1	312.2	12.00	11.99	-0.38
13,009.6	90.60	179.52	12,726.0	-316.9	-268.1	321.8	12.00	11.99	-0.38
13,100.0	90.60	179.52	12,725.1	-407.3	-267.3	412.2	0.00	0.00	0.00
13,200.0	90.60	179.52	12,724.0	-507.3	-266.5	512.1	0.00	0.00	0.00



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Site: Ruby 2 Fed Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

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	90.60	179.52	12,723.0	-607.3	-265.6	612.1	0.00	0.00	0.00
13,400.0	90.60	179.52	12,722.0	-707.3	-264.8	712.0	0.00	0.00	0.00
13,500.0	90.60	179.52	12,720.9	-807.3	-263.9	812.0	0.00	0.00	0.00
13,600.0	90.60	179.52	12,719.9	-907.3	-263.1	912.0	0.00	0.00	0.00
13,700.0	90.60	179.52	12,718.8	-1,007.3	-262.3	1,011.9	0.00	0.00	0.00
13,800.0	90.60	179.52	12,717.8	-1,107.3	-261.4	1,111.9	0.00	0.00	0.00
13,900.0	90.60	179.52	12,716.7	-1,207.2	-260.6	1,211.8	0.00	0.00	0.00
14,000.0	90.60	179.52	12,715.7	-1,307.2	-259.8	1,311.8	0.00	0.00	0.00
14,100.0	90.60	179.52	12,714.6	-1,407.2	-258.9	1,411.8	0.00	0.00	0.00
14,200.0	90.60	179.52	12,713.6	-1,507.2	-258.1	1,511.7	0.00	0.00	0.00
14,300.0	90.60	179.52	12,712.5	-1,607.2	-257.2	1,611.7	0.00	0.00	0.00
14,400.0	90.60	179.52	12,711.5	-1,707.2	-256.4	1,711.6	0.00	0.00	0.00
14,500.0	90.60	179.52	12,710.4	-1,807.2	-255.6	1,811.6	0.00	0.00	0.00
14,600.0	90.60	179.52	12,709.4	-1,907.2	-254.7	1,911.5	0.00	0.00	0.00
14,700.0	90.60	179.52	12,708.3	-2,007.2	-253.9	2,011.5	0.00	0.00	0.00
14,800.0	90.60	179.52	12,707.3	-2,107.2	-253.1	2,111.5	0.00	0.00	0.00
14,900.0	90.60	179.52	12,706.2	-2,207.2	-252.2	2,211.4	0.00	0.00	0.00
15,000.0	90.60	179.52	12,705.2	-2,307.1	-251.4	2,311.4	0.00	0.00	0.00
15,100.0	90.60	179.52	12,704.2	-2,407.1	-250.5	2,411.3	0.00	0.00	0.00
15,200.0	90.60	179.52	12,703.1	-2,507.1	-249.7	2,511.3	0.00	0.00	0.00
15,300.0	90.60	179.52	12,702.1	-2,607.1	-248.9	2,611.3	0.00	0.00	0.00
15,400.0	90.60	179.52	12,701.0	-2,707.1	-248.0	2,711.2	0.00	0.00	0.00
15,500.0	90.60	179.52	12,700.0	-2,807.1	-247.2	2,811.2	0.00	0.00	0.00
15,600.0	90.60	179.52	12,698.9	-2,907.1	-246.4	2,911.1	0.00	0.00	0.00
15,700.0	90.60	179.52	12,697.9	-3,007.1	-245.5	3,011.1	0.00	0.00	0.00
15,800.0	90.60	179.52	12,696.8	-3,107.1	-244.7	3,111.0	0.00	0.00	0.00
15,900.0	90.60	179.52	12,695.8	-3,207.1	-243.8	3,211.0	0.00	0.00	0.00
16,000.0	90.60	179.52	12,694.7	-3,307.1	-243.0	3,311.0	0.00	0.00	0.00
16,100.0	90.60	179.52	12,693.7	-3,407.0	-242.2	3,410.9	0.00	0.00	0.00
16,200.0	90.60	179.52	12,692.6	-3,507.0	-241.3	3,510.9	0.00	0.00	0.00
16,300.0	90.60	179.52	12,691.6	-3,607.0	-240.5	3,610.8	0.00	0.00	0.00
16,400.0	90.60	179.52	12,690.5	-3,707.0	-239.7	3,710.8	0.00	0.00	0.00
16,500.0	90.60	179.52	12,689.5	-3,807.0	-238.8	3,810.8	0.00	0.00	0.00
16,600.0	90.60	179.52	12,688.4	-3,907.0	-238.0	3,910.7	0.00	0.00	0.00
16,700.0	90.60	179.52	12,687.4	-4,007.0	-237.1	4,010.7	0.00	0.00	0.00
16,800.0	90.60	179.52	12,686.3	-4,107.0	-236.3	4,110.6	0.00	0.00	0.00
16,900.0	90.60	179.52	12,685.3	-4,207.0	-235.5	4,210.6	0.00	0.00	0.00
17,000.0	90.60	179.52	12,684.3	-4,307.0	-234.6	4,310.6	0.00	0.00	0.00
17,100.0	90.60	179.52	12,683.2	-4,407.0	-233.8	4,410.5	0.00	0.00	0.00
17,200.0	90.60	179.52	12,682.2	-4,506.9	-232.9	4,510.5	0.00	0.00	0.00
17,300.0	90.60	179.52	12,681.1	-4,606.9	-232.1	4,610.4	0.00	0.00	0.00
17,400.0	90.60	179.52	12,680.1	-4,706.9	-231.3	4,710.4	0.00	0.00	0.00
17,500.0	90.60	179.52	12,679.0	-4,806.9	-230.4	4,810.3	0.00	0.00	0.00
17,600.0	90.60	179.52	12,678.0	-4,906.9	-229.6	4,910.3	0.00	0.00	0.00
17,700.0	90.60	179.52	12,676.9	-5,006.9	-228.8	5,010.3	0.00	0.00	0.00
17,800.0	90.60	179.52	12,675.9	-5,106.9	-227.9	5,110.2	0.00	0.00	0.00
17,900.0	90.60	179.52	12,674.8	-5,206.9	-227.1	5,210.2	0.00	0.00	0.00
18,000.0	90.60	179.52	12,673.8	-5,306.9	-226.2	5,310.1	0.00	0.00	0.00
18,100.0	90.60	179.52	12,672.7	-5,406.9	-225.4	5,410.1	0.00	0.00	0.00
18,200.0	90.60	179.52	12,671.7	-5,506.9	-224.6	5,510.1	0.00	0.00	0.00
18,300.0	90.60	179.52	12,670.6	-5,606.9	-223.7	5,610.0	0.00	0.00	0.00
18,400.0	90.60	179.52	12,669.6	-5,706.8	-222.9	5,710.0	0.00	0.00	0.00
18,500.0	90.60	179.52	12,668.5	-5,806.8	-222.1	5,809.9	0.00	0.00	0.00
18,600.0	90.60	179.52	12,667.5	-5,906.8	-221.2	5,909.9	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: #702H
 Wellbore: OH
 Design: Plan #0.1

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)
18,700.0	90.60	179.52	12,666.5	-6,006.8	-220.4	6,009.9	0.00	0.00	0.00
18,800.0	90.60	179.52	12,665.4	-6,106.8	-219.5	6,109.8	0.00	0.00	0.00
18,900.0	90.60	179.52	12,664.4	-6,206.8	-218.7	6,209.8	0.00	0.00	0.00
19,000.0	90.60	179.52	12,663.3	-6,306.8	-217.9	6,309.7	0.00	0.00	0.00
19,100.0	90.60	179.52	12,662.3	-6,406.8	-217.0	6,409.7	0.00	0.00	0.00
19,200.0	90.60	179.52	12,661.2	-6,506.8	-216.2	6,509.6	0.00	0.00	0.00
19,300.0	90.60	179.52	12,660.2	-6,606.8	-215.4	6,609.6	0.00	0.00	0.00
19,400.0	90.60	179.52	12,659.1	-6,706.8	-214.5	6,709.6	0.00	0.00	0.00
19,500.0	90.60	179.52	12,658.1	-6,806.7	-213.7	6,809.5	0.00	0.00	0.00
19,600.0	90.60	179.52	12,657.0	-6,906.7	-212.8	6,909.5	0.00	0.00	0.00
19,700.0	90.60	179.52	12,656.0	-7,006.7	-212.0	7,009.4	0.00	0.00	0.00
19,800.0	90.60	179.52	12,654.9	-7,106.7	-211.2	7,109.4	0.00	0.00	0.00
19,900.0	90.60	179.52	12,653.9	-7,206.7	-210.3	7,209.4	0.00	0.00	0.00
20,000.0	90.60	179.52	12,652.8	-7,306.7	-209.5	7,309.3	0.00	0.00	0.00
20,100.0	90.60	179.52	12,651.8	-7,406.7	-208.7	7,409.3	0.00	0.00	0.00
20,200.0	90.60	179.52	12,650.7	-7,506.7	-207.8	7,509.2	0.00	0.00	0.00
20,300.0	90.60	179.52	12,649.7	-7,606.7	-207.0	7,609.2	0.00	0.00	0.00
20,400.0	90.60	179.52	12,648.6	-7,706.7	-206.1	7,709.1	0.00	0.00	0.00
20,500.0	90.60	179.52	12,647.6	-7,806.7	-205.3	7,809.1	0.00	0.00	0.00
20,600.0	90.60	179.52	12,646.6	-7,906.6	-204.5	7,909.1	0.00	0.00	0.00
20,700.0	90.60	179.52	12,645.5	-8,006.6	-203.6	8,009.0	0.00	0.00	0.00
20,800.0	90.60	179.52	12,644.5	-8,106.6	-202.8	8,109.0	0.00	0.00	0.00
20,900.0	90.60	179.52	12,643.4	-8,206.6	-202.0	8,208.9	0.00	0.00	0.00
21,000.0	90.60	179.52	12,642.4	-8,306.6	-201.1	8,308.9	0.00	0.00	0.00
21,100.0	90.60	179.52	12,641.3	-8,406.6	-200.3	8,408.9	0.00	0.00	0.00
21,200.0	90.60	179.52	12,640.3	-8,506.6	-199.4	8,508.8	0.00	0.00	0.00
21,300.0	90.60	179.52	12,639.2	-8,606.6	-198.6	8,608.8	0.00	0.00	0.00
21,400.0	90.60	179.52	12,638.2	-8,706.6	-197.8	8,708.7	0.00	0.00	0.00
21,500.0	90.60	179.52	12,637.1	-8,806.6	-196.9	8,808.7	0.00	0.00	0.00
21,600.0	90.60	179.52	12,636.1	-8,906.6	-196.1	8,908.7	0.00	0.00	0.00
21,700.0	90.60	179.52	12,635.0	-9,006.5	-195.3	9,008.6	0.00	0.00	0.00
21,800.0	90.60	179.52	12,634.0	-9,106.5	-194.4	9,108.6	0.00	0.00	0.00
21,900.0	90.60	179.52	12,632.9	-9,206.5	-193.6	9,208.5	0.00	0.00	0.00
22,000.0	90.60	179.52	12,631.9	-9,306.5	-192.7	9,308.5	0.00	0.00	0.00
22,100.0	90.60	179.52	12,630.8	-9,406.5	-191.9	9,408.4	0.00	0.00	0.00
22,200.0	90.60	179.52	12,629.8	-9,506.5	-191.1	9,508.4	0.00	0.00	0.00
22,300.0	90.60	179.52	12,628.8	-9,606.5	-190.2	9,608.4	0.00	0.00	0.00
22,400.0	90.60	179.52	12,627.7	-9,706.5	-189.4	9,708.3	0.00	0.00	0.00
22,500.0	90.60	179.52	12,626.7	-9,806.5	-188.6	9,808.3	0.00	0.00	0.00
22,600.0	90.60	179.52	12,625.6	-9,906.5	-187.7	9,908.2	0.00	0.00	0.00
22,700.0	90.60	179.52	12,624.6	-10,006.5	-186.9	10,008.2	0.00	0.00	0.00
22,804.6	90.60	179.52	12,623.5	-10,111.0	-186.0	10,112.7	0.00	0.00	0.00

PBHL (Ruby 2 Fed Com #702H)



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Design: Plan #0.1

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MD Reference: KB = 25' @ 3329.0usft
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
PBHL (Ruby 2 Fed Com - plan hits target center - Point	0.00	0.00	12,623.5	-10,111.0	-186.0	383,479.00	774,962.00	32° 3' 4.291 N	103° 26' 45.118 W
FTP (Ruby 2 Fed Com # - plan misses target center by 40.2usft at 12815.5usft MD (12689.1 TVD, -127.7 N, -268.4 E) - Point	0.00	0.00	12,726.0	-112.0	-271.0	393,478.00	774,877.00	32° 4' 43.243 N	103° 26' 45.150 W