



Lea County, NM (NAD 83 NME)

Ruby 2 State Com #605H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

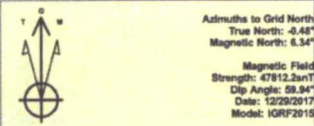
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #605H

KB = 3298.0
KB = 25' @ 3323.0usft
Northing 393693.00 Easting 819554.90 Latitude 32° 4' 44.577 N Longitude 103° 26' 6.260 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	4226.4	2.26	42.71	4226.4	3.3	3.0	1.00	42.71	-3.1	
4	11965.1	2.26	42.71	11959.0	228.0	210.4	0.00	0.00	-215.4	
5	12728.8	90.00	179.40	12450.0	-249.1	228.7	12.00	136.67	262.0	
6	17242.9	90.00	179.40	12450.0	-4763.0	276.0	0.00	0.00	4771.0	PBHL (Ruby 2 State Com #605H)



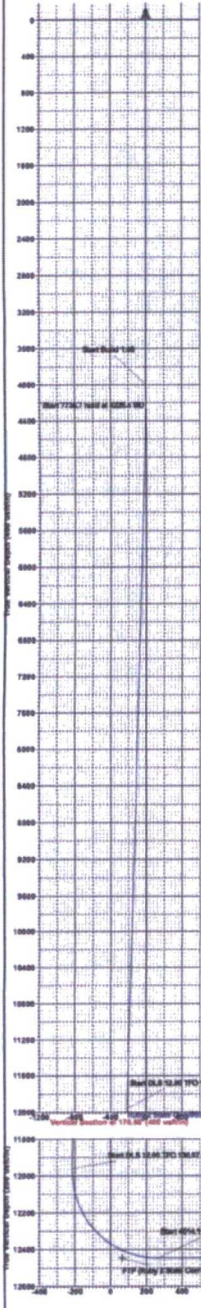
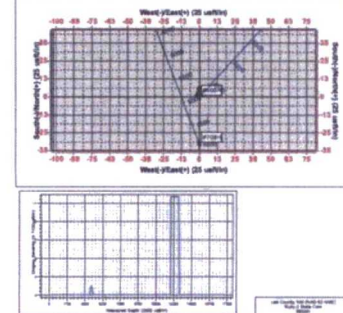
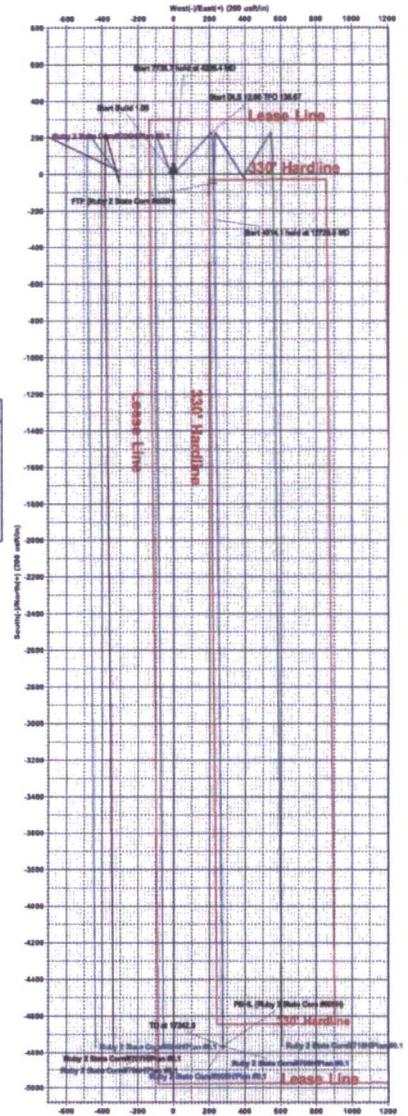
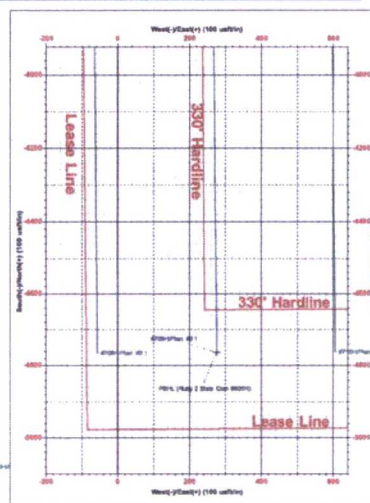
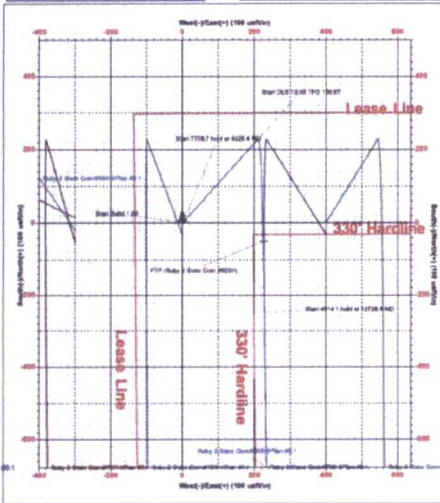
To convert a Magnetic Direction to a Grid Direction, Add 6.34°
To convert a Magnetic Direction to a True Direction, Add 6.82° East
To convert a True Direction to a Grid Direction, Subtract 0.48°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Ruby 2 State Com #605H)	12450.0	-4763.0	276.0	388640.00	819536.00
FTF (Ruby 2 State Com #605H)	12450.0	-50.0	227.0	385553.00	819781.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ruby 2 State Com

#605H

OH

Plan: Plan #0.1

Standard Planning Report

02 January, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ruby 2 State Com
Well: #605H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #605H
TVD Reference: KB = 25' @ 3323.0usft
MD Reference: KB = 25' @ 3323.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Ruby 2 State Com

Site Position: Northing: 393,589.99 usft Latitude: 32° 4' 47.315 N
From: Map Easting: 775,148.00 usft Longitude: 103° 34' 42.355 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.40 °

Well #605H

Well Position +N/-S 13.0 usft Northing: 393,603.00 usft Latitude: 32° 4' 44.077 N
 +E/-W 44,406.0 usft Easting: 819,554.00 usft Longitude: 103° 26' 6.260 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,298.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/29/2017	6.82	59.94	47,812.18819007

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	176.68

Plan Survey Tool Program Date 1/2/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,242.9 Plan #0.1 (OH)	MWD	
			MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,226.4	2.26	42.71	4,226.4	3.3	3.0	1.00	1.00	0.00	42.71	
11,965.1	2.26	42.71	11,959.0	228.0	210.4	0.00	0.00	0.00	0.00	
12,728.8	90.00	179.40	12,450.0	-249.1	228.7	12.00	11.49	17.90	136.67	
17,242.9	90.00	179.40	12,450.0	-4,763.0	276.0	0.00	0.00	0.00	0.00	PBHL (Ruby 2 State C



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Ruby 2 State Com
 Well: #605H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #605H
 TVD Reference: KB = 25' @ 3323.0usft
 MD Reference: KB = 25' @ 3323.0usft
 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	42.71	4,100.0	0.6	0.6	-0.6	1.00	1.00	0.00
4,200.0	2.00	42.71	4,200.0	2.6	2.4	-2.4	1.00	1.00	0.00
4,226.4	2.26	42.71	4,226.4	3.3	3.0	-3.1	1.00	1.00	0.00
4,300.0	2.26	42.71	4,299.9	5.4	5.0	-5.1	0.00	0.00	0.00
4,400.0	2.26	42.71	4,399.8	8.3	7.7	-7.9	0.00	0.00	0.00
4,500.0	2.26	42.71	4,499.7	11.2	10.4	-10.6	0.00	0.00	0.00
4,600.0	2.26	42.71	4,599.6	14.1	13.0	-13.4	0.00	0.00	0.00
4,700.0	2.26	42.71	4,699.6	17.0	15.7	-16.1	0.00	0.00	0.00
4,800.0	2.26	42.71	4,799.5	19.9	18.4	-18.8	0.00	0.00	0.00
4,900.0	2.26	42.71	4,899.4	22.8	21.1	-21.6	0.00	0.00	0.00
5,000.0	2.26	42.71	4,999.3	25.7	23.8	-24.3	0.00	0.00	0.00
5,100.0	2.26	42.71	5,099.3	28.6	26.4	-27.1	0.00	0.00	0.00
5,200.0	2.26	42.71	5,199.2	31.6	29.1	-29.8	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Ruby 2 State Com
 Well: #605H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #605H
 TVD Reference: KB = 25' @ 3323.0usft
 MD Reference: KB = 25' @ 3323.0usft
 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	2.26	42.71	5,299.1	34.5	31.8	-32.6	0.00	0.00	0.00
5,400.0	2.26	42.71	5,399.0	37.4	34.5	-35.3	0.00	0.00	0.00
5,500.0	2.26	42.71	5,498.9	40.3	37.2	-38.0	0.00	0.00	0.00
5,600.0	2.26	42.71	5,598.9	43.2	39.8	-40.8	0.00	0.00	0.00
5,700.0	2.26	42.71	5,698.8	46.1	42.5	-43.5	0.00	0.00	0.00
5,800.0	2.26	42.71	5,798.7	49.0	45.2	-46.3	0.00	0.00	0.00
5,900.0	2.26	42.71	5,898.6	51.9	47.9	-49.0	0.00	0.00	0.00
6,000.0	2.26	42.71	5,998.6	54.8	50.6	-51.8	0.00	0.00	0.00
6,100.0	2.26	42.71	6,098.5	57.7	53.2	-54.5	0.00	0.00	0.00
6,200.0	2.26	42.71	6,198.4	60.6	55.9	-57.2	0.00	0.00	0.00
6,300.0	2.26	42.71	6,298.3	63.5	58.6	-60.0	0.00	0.00	0.00
6,400.0	2.26	42.71	6,398.2	66.4	61.3	-62.7	0.00	0.00	0.00
6,500.0	2.26	42.71	6,498.2	69.3	64.0	-65.5	0.00	0.00	0.00
6,600.0	2.26	42.71	6,598.1	72.2	66.6	-68.2	0.00	0.00	0.00
6,700.0	2.26	42.71	6,698.0	75.1	69.3	-71.0	0.00	0.00	0.00
6,800.0	2.26	42.71	6,797.9	78.0	72.0	-73.7	0.00	0.00	0.00
6,900.0	2.26	42.71	6,897.9	80.9	74.7	-76.5	0.00	0.00	0.00
7,000.0	2.26	42.71	6,997.8	83.8	77.4	-79.2	0.00	0.00	0.00
7,100.0	2.26	42.71	7,097.7	86.7	80.0	-81.9	0.00	0.00	0.00
7,200.0	2.26	42.71	7,197.6	89.6	82.7	-84.7	0.00	0.00	0.00
7,300.0	2.26	42.71	7,297.5	92.5	85.4	-87.4	0.00	0.00	0.00
7,400.0	2.26	42.71	7,397.5	95.4	88.1	-90.2	0.00	0.00	0.00
7,500.0	2.26	42.71	7,497.4	98.3	90.8	-92.9	0.00	0.00	0.00
7,600.0	2.26	42.71	7,597.3	101.2	93.4	-95.7	0.00	0.00	0.00
7,700.0	2.26	42.71	7,697.2	104.1	96.1	-98.4	0.00	0.00	0.00
7,800.0	2.26	42.71	7,797.2	107.0	98.8	-101.1	0.00	0.00	0.00
7,900.0	2.26	42.71	7,897.1	109.9	101.5	-103.9	0.00	0.00	0.00
8,000.0	2.26	42.71	7,997.0	112.8	104.2	-106.6	0.00	0.00	0.00
8,100.0	2.26	42.71	8,096.9	115.7	106.8	-109.4	0.00	0.00	0.00
8,200.0	2.26	42.71	8,196.8	118.6	109.5	-112.1	0.00	0.00	0.00
8,300.0	2.26	42.71	8,296.8	121.6	112.2	-114.9	0.00	0.00	0.00
8,400.0	2.26	42.71	8,396.7	124.5	114.9	-117.6	0.00	0.00	0.00
8,500.0	2.26	42.71	8,496.6	127.4	117.6	-120.3	0.00	0.00	0.00
8,600.0	2.26	42.71	8,596.5	130.3	120.2	-123.1	0.00	0.00	0.00
8,700.0	2.26	42.71	8,696.4	133.2	122.9	-125.8	0.00	0.00	0.00
8,800.0	2.26	42.71	8,796.4	136.1	125.6	-128.6	0.00	0.00	0.00
8,900.0	2.26	42.71	8,896.3	139.0	128.3	-131.3	0.00	0.00	0.00
9,000.0	2.26	42.71	8,996.2	141.9	131.0	-134.1	0.00	0.00	0.00
9,100.0	2.26	42.71	9,096.1	144.8	133.6	-136.8	0.00	0.00	0.00
9,200.0	2.26	42.71	9,196.1	147.7	136.3	-139.5	0.00	0.00	0.00
9,300.0	2.26	42.71	9,296.0	150.6	139.0	-142.3	0.00	0.00	0.00
9,400.0	2.26	42.71	9,395.9	153.5	141.7	-145.0	0.00	0.00	0.00
9,500.0	2.26	42.71	9,495.8	156.4	144.4	-147.8	0.00	0.00	0.00
9,600.0	2.26	42.71	9,595.7	159.3	147.0	-150.5	0.00	0.00	0.00
9,700.0	2.26	42.71	9,695.7	162.2	149.7	-153.3	0.00	0.00	0.00
9,800.0	2.26	42.71	9,795.6	165.1	152.4	-156.0	0.00	0.00	0.00
9,900.0	2.26	42.71	9,895.5	168.0	155.1	-158.7	0.00	0.00	0.00
10,000.0	2.26	42.71	9,995.4	170.9	157.8	-161.5	0.00	0.00	0.00
10,100.0	2.26	42.71	10,095.4	173.8	160.4	-164.2	0.00	0.00	0.00
10,200.0	2.26	42.71	10,195.3	176.7	163.1	-167.0	0.00	0.00	0.00
10,300.0	2.26	42.71	10,295.2	179.6	165.8	-169.7	0.00	0.00	0.00
10,400.0	2.26	42.71	10,395.1	182.5	168.5	-172.5	0.00	0.00	0.00
10,500.0	2.26	42.71	10,495.0	185.4	171.2	-175.2	0.00	0.00	0.00
10,600.0	2.26	42.71	10,595.0	188.3	173.8	-178.0	0.00	0.00	0.00



Planning Report

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 Site: Ruby 2 State Com
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 Wellbore: OH
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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)
10,700.0	2.26	42.71	10,694.9	191.2	176.5	-180.7	0.00	0.00	0.00
10,800.0	2.26	42.71	10,794.8	194.1	179.2	-183.4	0.00	0.00	0.00
10,900.0	2.26	42.71	10,894.7	197.0	181.9	-186.2	0.00	0.00	0.00
11,000.0	2.26	42.71	10,994.7	199.9	184.6	-188.9	0.00	0.00	0.00
11,100.0	2.26	42.71	11,094.6	202.8	187.2	-191.7	0.00	0.00	0.00
11,200.0	2.26	42.71	11,194.5	205.7	189.9	-194.4	0.00	0.00	0.00
11,300.0	2.26	42.71	11,294.4	208.6	192.6	-197.2	0.00	0.00	0.00
11,400.0	2.26	42.71	11,394.3	211.5	195.3	-199.9	0.00	0.00	0.00
11,500.0	2.26	42.71	11,494.3	214.5	198.0	-202.6	0.00	0.00	0.00
11,600.0	2.26	42.71	11,594.2	217.4	200.6	-205.4	0.00	0.00	0.00
11,700.0	2.26	42.71	11,694.1	220.3	203.3	-208.1	0.00	0.00	0.00
11,800.0	2.26	42.71	11,794.0	223.2	206.0	-210.9	0.00	0.00	0.00
11,900.0	2.26	42.71	11,893.9	226.1	208.7	-213.6	0.00	0.00	0.00
11,965.1	2.26	42.71	11,959.0	228.0	210.4	-215.4	0.00	0.00	0.00
11,975.0	1.62	72.96	11,968.9	228.1	210.7	-215.6	12.00	-6.50	305.29
12,000.0	2.98	147.99	11,993.9	227.7	211.4	-215.1	12.00	5.44	300.09
12,025.0	5.75	163.79	12,018.8	225.9	212.1	-213.3	12.00	11.10	63.21
12,050.0	8.68	169.17	12,043.6	222.9	212.8	-210.2	12.00	11.70	21.52
12,075.0	11.64	171.84	12,068.2	218.5	213.5	-205.8	12.00	11.85	10.68
12,100.0	14.62	173.43	12,092.6	212.9	214.2	-200.1	12.00	11.91	6.38
12,125.0	17.61	174.50	12,116.6	206.0	214.9	-193.2	12.00	11.94	4.26
12,150.0	20.60	175.26	12,140.2	197.8	215.6	-185.0	12.00	11.96	3.06
12,175.0	23.59	175.84	12,163.3	188.5	216.4	-175.6	12.00	11.97	2.31
12,200.0	26.58	176.29	12,186.0	177.9	217.1	-165.0	12.00	11.98	1.82
12,225.0	29.58	176.66	12,208.0	166.2	217.8	-153.3	12.00	11.98	1.47
12,250.0	32.57	176.97	12,229.5	153.3	218.5	-140.4	12.00	11.98	1.22
12,275.0	35.57	177.23	12,250.2	139.3	219.2	-126.4	12.00	11.99	1.04
12,300.0	38.57	177.45	12,270.1	124.2	219.9	-111.3	12.00	11.99	0.90
12,325.0	41.57	177.65	12,289.2	108.2	220.6	-95.2	12.00	11.99	0.79
12,350.0	44.56	177.82	12,307.5	91.1	221.3	-78.1	12.00	11.99	0.70
12,375.0	47.56	177.98	12,324.8	73.1	222.0	-60.2	12.00	11.99	0.63
12,400.0	50.56	178.12	12,341.2	54.2	222.6	-41.3	12.00	11.99	0.57
12,425.0	53.56	178.25	12,356.6	34.5	223.2	-21.6	12.00	11.99	0.52
12,450.0	56.56	178.37	12,370.9	14.1	223.8	-1.1	12.00	11.99	0.48
12,475.0	59.55	178.49	12,384.1	-7.1	224.4	20.1	12.00	11.99	0.45
12,500.0	62.55	178.59	12,396.2	-29.0	225.0	42.0	12.00	11.99	0.43
12,525.0	65.55	178.69	12,407.2	-51.5	225.5	64.4	12.00	11.99	0.40
12,550.0	68.55	178.79	12,416.9	-74.5	226.0	87.4	12.00	11.99	0.38
12,575.0	71.55	178.88	12,425.4	-98.0	226.5	110.9	12.00	12.00	0.37
12,600.0	74.55	178.97	12,432.7	-121.9	226.9	134.8	12.00	12.00	0.36
12,625.0	77.55	179.06	12,438.8	-146.2	227.3	159.1	12.00	12.00	0.35
12,650.0	80.55	179.14	12,443.5	-170.7	227.7	183.6	12.00	12.00	0.34
12,675.0	83.54	179.22	12,447.0	-195.4	228.1	208.3	12.00	12.00	0.33
12,700.0	86.54	179.31	12,449.1	-220.3	228.4	233.2	12.00	12.00	0.33
12,725.0	89.54	179.39	12,450.0	-245.3	228.7	258.1	12.00	12.00	0.33
12,728.8	90.00	179.40	12,450.0	-249.1	228.7	262.0	12.00	12.00	0.33
12,800.0	90.00	179.40	12,450.0	-320.3	229.5	333.1	0.00	0.00	0.00
12,900.0	90.00	179.40	12,450.0	-420.3	230.5	433.0	0.00	0.00	0.00
13,000.0	90.00	179.40	12,450.0	-520.3	231.6	532.8	0.00	0.00	0.00
13,100.0	90.00	179.40	12,450.0	-620.3	232.6	632.7	0.00	0.00	0.00
13,200.0	90.00	179.40	12,450.0	-720.3	233.7	732.6	0.00	0.00	0.00
13,300.0	90.00	179.40	12,450.0	-820.3	234.7	832.5	0.00	0.00	0.00
13,400.0	90.00	179.40	12,450.0	-920.3	235.8	932.4	0.00	0.00	0.00
13,500.0	90.00	179.40	12,450.0	-1,020.3	236.8	1,032.3	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Ruby 2 State Com
 Well: #605H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #605H
 TVD Reference: KB = 25' @ 3323.0usft
 MD Reference: KB = 25' @ 3323.0usft
 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)
13,600.0	90.00	179.40	12,450.0	-1,120.3	237.9	1,132.2	0.00	0.00	0.00
13,700.0	90.00	179.40	12,450.0	-1,220.3	238.9	1,232.1	0.00	0.00	0.00
13,800.0	90.00	179.40	12,450.0	-1,320.3	239.9	1,331.9	0.00	0.00	0.00
13,900.0	90.00	179.40	12,450.0	-1,420.3	241.0	1,431.8	0.00	0.00	0.00
14,000.0	90.00	179.40	12,450.0	-1,520.3	242.0	1,531.7	0.00	0.00	0.00
14,100.0	90.00	179.40	12,450.0	-1,620.3	243.1	1,631.6	0.00	0.00	0.00
14,200.0	90.00	179.40	12,450.0	-1,720.2	244.1	1,731.5	0.00	0.00	0.00
14,300.0	90.00	179.40	12,450.0	-1,820.2	245.2	1,831.4	0.00	0.00	0.00
14,400.0	90.00	179.40	12,450.0	-1,920.2	246.2	1,931.3	0.00	0.00	0.00
14,500.0	90.00	179.40	12,450.0	-2,020.2	247.3	2,031.2	0.00	0.00	0.00
14,600.0	90.00	179.40	12,450.0	-2,120.2	248.3	2,131.0	0.00	0.00	0.00
14,700.0	90.00	179.40	12,450.0	-2,220.2	249.4	2,230.9	0.00	0.00	0.00
14,800.0	90.00	179.40	12,450.0	-2,320.2	250.4	2,330.8	0.00	0.00	0.00
14,900.0	90.00	179.40	12,450.0	-2,420.2	251.5	2,430.7	0.00	0.00	0.00
15,000.0	90.00	179.40	12,450.0	-2,520.2	252.5	2,530.6	0.00	0.00	0.00
15,100.0	90.00	179.40	12,450.0	-2,620.2	253.6	2,630.5	0.00	0.00	0.00
15,200.0	90.00	179.40	12,450.0	-2,720.2	254.6	2,730.4	0.00	0.00	0.00
15,300.0	90.00	179.40	12,450.0	-2,820.2	255.7	2,830.3	0.00	0.00	0.00
15,400.0	90.00	179.40	12,450.0	-2,920.2	256.7	2,930.1	0.00	0.00	0.00
15,500.0	90.00	179.40	12,450.0	-3,020.2	257.7	3,030.0	0.00	0.00	0.00
15,600.0	90.00	179.40	12,450.0	-3,120.2	258.8	3,129.9	0.00	0.00	0.00
15,700.0	90.00	179.40	12,450.0	-3,220.2	259.8	3,229.8	0.00	0.00	0.00
15,800.0	90.00	179.40	12,450.0	-3,320.2	260.9	3,329.7	0.00	0.00	0.00
15,900.0	90.00	179.40	12,450.0	-3,420.2	261.9	3,429.6	0.00	0.00	0.00
16,000.0	90.00	179.40	12,450.0	-3,520.1	263.0	3,529.5	0.00	0.00	0.00
16,100.0	90.00	179.40	12,450.0	-3,620.1	264.0	3,629.4	0.00	0.00	0.00
16,200.0	90.00	179.40	12,450.0	-3,720.1	265.1	3,729.2	0.00	0.00	0.00
16,300.0	90.00	179.40	12,450.0	-3,820.1	266.1	3,829.1	0.00	0.00	0.00
16,400.0	90.00	179.40	12,450.0	-3,920.1	267.2	3,929.0	0.00	0.00	0.00
16,500.0	90.00	179.40	12,450.0	-4,020.1	268.2	4,028.9	0.00	0.00	0.00
16,600.0	90.00	179.40	12,450.0	-4,120.1	269.3	4,128.8	0.00	0.00	0.00
16,700.0	90.00	179.40	12,450.0	-4,220.1	270.3	4,228.7	0.00	0.00	0.00
16,800.0	90.00	179.40	12,450.0	-4,320.1	271.4	4,328.6	0.00	0.00	0.00
16,900.0	90.00	179.40	12,450.0	-4,420.1	272.4	4,428.5	0.00	0.00	0.00
17,000.0	90.00	179.40	12,450.0	-4,520.1	273.5	4,528.3	0.00	0.00	0.00
17,100.0	90.00	179.40	12,450.0	-4,620.1	274.5	4,628.2	0.00	0.00	0.00
17,200.0	90.00	179.40	12,450.0	-4,720.1	275.6	4,728.1	0.00	0.00	0.00
17,242.9	90.00	179.40	12,450.0	-4,763.0	276.0	4,771.0	0.00	0.00	0.00

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 39.9usft at 12540.4usft MD (12413.3 TVD, -65.6 N, 225.8 E) - Point	0.00	0.00	12,450.0	-50.0	227.0	393,553.00	819,781.00	32° 4' 43.563 N	103° 26' 3.627 W
PBHL (Ruby 2 State Cor - plan hits target center - Point	0.00	0.00	12,450.0	-4,763.0	276.0	388,840.00	819,830.00	32° 3' 56.924 N	103° 26' 3.513 W