



Lea County, NM (NAD 83 NME)

Ruby 2 State Com #706H

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: #706H

KB = 25 @ 3319.0' surf
Northing 393618.00 Easting 819254.00 Latitude 32° 4' 44.250 N Longitude 103° 26' 9.745 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VSec	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	4349.5	3.50	295.49	4349.3	4.6	-9.6	1.00	295.49	-3.7	
4	12160.2	3.50	295.49	12145.5	209.5	-439.4	0.00	0.00	-170.8	
5	12923.0	90.00	179.40	12635.0	-268.0	-461.3	12.00	-116.05	306.8	
6	17439.2	90.00	179.40	12635.0	-4784.0	-414.0	0.00	0.00	4801.9	PBHL (Ruby 2 State Com #706H)



Azimuths to Grid North
True North: -0.48°
Magnetic North: 6.34°
Magnetic Field
Strength: 47812.1nT
Dip Angle: 59.94°
Date: 12/26/2017
Model: IGRF2015

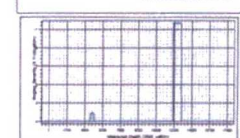
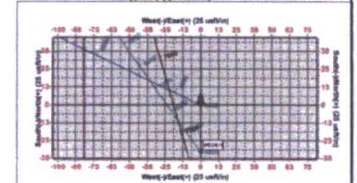
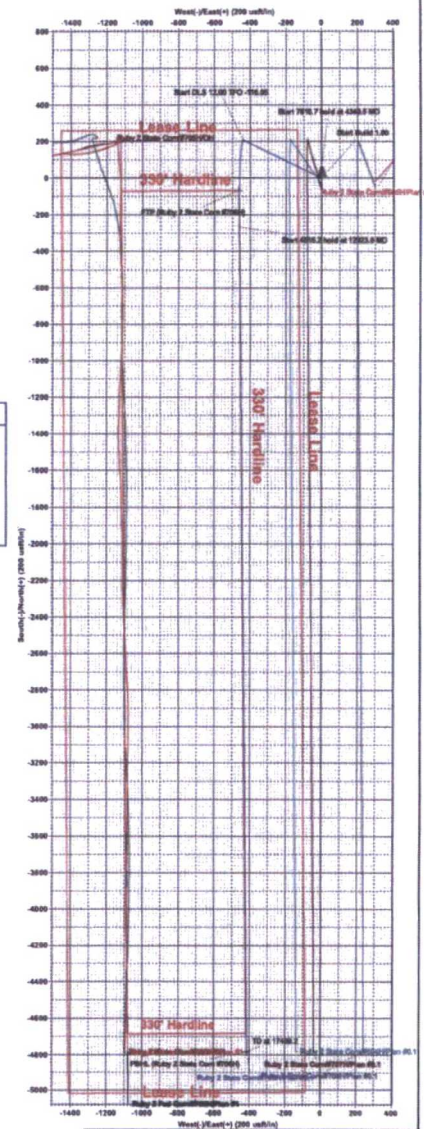
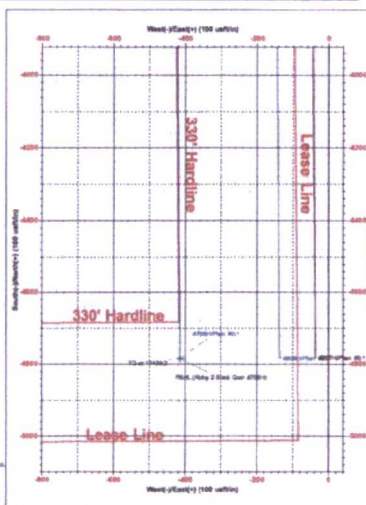
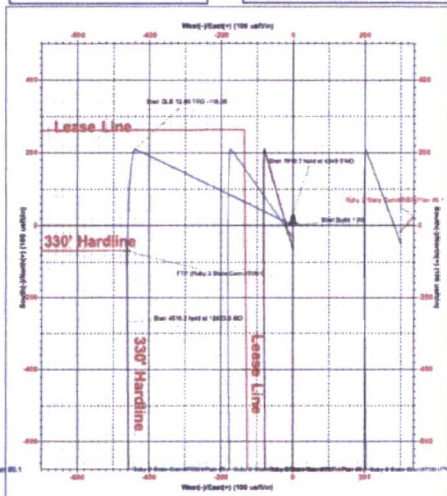
To convert a Magnetic Direction to a Grid Direction, Add 6.30°
To convert a Magnetic Direction to a True Direction, Add 6.82° East
To convert a True Direction to a Grid Direction, Subtract 0.48°

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 #706H)	12635.0	-4784.0	-414.0	393618.00	819254.00
FTP (Ruby 2 State Com #706H)	12635.0	-49.0	-483.0	393569.00	819791.00



Map Scale: 1 inch = 100 feet
Map Date: 12/26/2017
Map Author: EOG



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ruby 2 State Com

#706H

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: #706H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #706H
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 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 State 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	#706H		
Well Position	+N/-S	28.0 usft	Northing: 393,618.00 usft
	+E/-W	44,106.0 usft	Easting: 819,254.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 4' 44.250 N
			Longitude: 103° 26' 9.745 W
			Ground Level: 3,294.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	12/29/2017	(°)
			6.82
			Dip Angle
			(°)
			59.94
			Field Strength
			(nT)
			47,812.14529387

Design	Plan #0.1		
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
			(°)
			184.95

Plan Survey Tool Program	Date 1/2/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	17,439.2 Plan #0.1 (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	
4,349.5	3.50	295.49	4,349.3	4.6	-9.6	1.00	1.00	0.00	295.49	
12,160.2	3.50	295.49	12,145.5	209.5	-439.4	0.00	0.00	0.00	0.00	
12,923.0	90.00	179.40	12,635.0	-268.0	-461.3	12.00	11.34	-15.22	-116.05	
17,439.2	90.00	179.40	12,635.0	-4,784.0	-414.0	0.00	0.00	0.00	0.00	PBHL (Ruby 2 State C



Planning Report

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 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Ruby 2 State Com
 Well: #706H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25 @ 3319.0usft
 MD Reference: KB = 25 @ 3319.0usft
 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	295.49	4,100.0	0.4	-0.8	-0.3	1.00	1.00	0.00
4,200.0	2.00	295.49	4,200.0	1.5	-3.2	-1.2	1.00	1.00	0.00
4,300.0	3.00	295.49	4,299.9	3.4	-7.1	-2.8	1.00	1.00	0.00
4,349.5	3.50	295.49	4,349.3	4.6	-9.6	-3.7	1.00	1.00	0.00
4,400.0	3.50	295.49	4,399.7	5.9	-12.4	-4.8	0.00	0.00	0.00
4,500.0	3.50	295.49	4,499.5	8.5	-17.9	-7.0	0.00	0.00	0.00
4,600.0	3.50	295.49	4,599.3	11.2	-23.4	-9.1	0.00	0.00	0.00
4,700.0	3.50	295.49	4,699.1	13.8	-28.9	-11.2	0.00	0.00	0.00
4,800.0	3.50	295.49	4,798.9	16.4	-34.4	-13.4	0.00	0.00	0.00
4,900.0	3.50	295.49	4,898.8	19.0	-39.9	-15.5	0.00	0.00	0.00
5,000.0	3.50	295.49	4,998.6	21.7	-45.4	-17.7	0.00	0.00	0.00
5,100.0	3.50	295.49	5,098.4	24.3	-50.9	-19.8	0.00	0.00	0.00
5,200.0	3.50	295.49	5,198.2	26.9	-56.4	-21.9	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: #706H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25 @ 3319.0usft
MD Reference: KB = 25 @ 3319.0usft
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	3.50	295.49	5,298.0	29.5	-61.9	-24.1	0.00	0.00	0.00
5,400.0	3.50	295.49	5,397.8	32.1	-67.4	-26.2	0.00	0.00	0.00
5,500.0	3.50	295.49	5,497.6	34.8	-72.9	-28.4	0.00	0.00	0.00
5,600.0	3.50	295.49	5,597.5	37.4	-78.4	-30.5	0.00	0.00	0.00
5,700.0	3.50	295.49	5,697.3	40.0	-83.9	-32.6	0.00	0.00	0.00
5,800.0	3.50	295.49	5,797.1	42.6	-89.4	-34.8	0.00	0.00	0.00
5,900.0	3.50	295.49	5,896.9	45.3	-94.9	-36.9	0.00	0.00	0.00
6,000.0	3.50	295.49	5,996.7	47.9	-100.4	-39.0	0.00	0.00	0.00
6,100.0	3.50	295.49	6,096.5	50.5	-105.9	-41.2	0.00	0.00	0.00
6,200.0	3.50	295.49	6,196.3	53.1	-111.5	-43.3	0.00	0.00	0.00
6,300.0	3.50	295.49	6,296.2	55.8	-117.0	-45.5	0.00	0.00	0.00
6,400.0	3.50	295.49	6,396.0	58.4	-122.5	-47.6	0.00	0.00	0.00
6,500.0	3.50	295.49	6,495.8	61.0	-128.0	-49.7	0.00	0.00	0.00
6,600.0	3.50	295.49	6,595.6	63.6	-133.5	-51.9	0.00	0.00	0.00
6,700.0	3.50	295.49	6,695.4	66.3	-139.0	-54.0	0.00	0.00	0.00
6,800.0	3.50	295.49	6,795.2	68.9	-144.5	-56.2	0.00	0.00	0.00
6,900.0	3.50	295.49	6,895.0	71.5	-150.0	-58.3	0.00	0.00	0.00
7,000.0	3.50	295.49	6,994.9	74.1	-155.5	-60.4	0.00	0.00	0.00
7,100.0	3.50	295.49	7,094.7	76.7	-161.0	-62.6	0.00	0.00	0.00
7,200.0	3.50	295.49	7,194.5	79.4	-166.5	-64.7	0.00	0.00	0.00
7,300.0	3.50	295.49	7,294.3	82.0	-172.0	-66.9	0.00	0.00	0.00
7,400.0	3.50	295.49	7,394.1	84.6	-177.5	-69.0	0.00	0.00	0.00
7,500.0	3.50	295.49	7,493.9	87.2	-183.0	-71.1	0.00	0.00	0.00
7,600.0	3.50	295.49	7,593.7	89.9	-188.5	-73.3	0.00	0.00	0.00
7,700.0	3.50	295.49	7,693.6	92.5	-194.0	-75.4	0.00	0.00	0.00
7,800.0	3.50	295.49	7,793.4	95.1	-199.5	-77.6	0.00	0.00	0.00
7,900.0	3.50	295.49	7,893.2	97.7	-205.0	-79.7	0.00	0.00	0.00
8,000.0	3.50	295.49	7,993.0	100.4	-210.5	-81.8	0.00	0.00	0.00
8,100.0	3.50	295.49	8,092.8	103.0	-216.0	-84.0	0.00	0.00	0.00
8,200.0	3.50	295.49	8,192.6	105.6	-221.5	-86.1	0.00	0.00	0.00
8,300.0	3.50	295.49	8,292.4	108.2	-227.0	-88.3	0.00	0.00	0.00
8,400.0	3.50	295.49	8,392.2	110.9	-232.5	-90.4	0.00	0.00	0.00
8,500.0	3.50	295.49	8,492.1	113.5	-238.0	-92.5	0.00	0.00	0.00
8,600.0	3.50	295.49	8,591.9	116.1	-243.5	-94.7	0.00	0.00	0.00
8,700.0	3.50	295.49	8,691.7	118.7	-249.0	-96.8	0.00	0.00	0.00
8,800.0	3.50	295.49	8,791.5	121.3	-254.5	-98.9	0.00	0.00	0.00
8,900.0	3.50	295.49	8,891.3	124.0	-260.0	-101.1	0.00	0.00	0.00
9,000.0	3.50	295.49	8,991.1	126.6	-265.5	-103.2	0.00	0.00	0.00
9,100.0	3.50	295.49	9,090.9	129.2	-271.0	-105.4	0.00	0.00	0.00
9,200.0	3.50	295.49	9,190.8	131.8	-276.5	-107.5	0.00	0.00	0.00
9,300.0	3.50	295.49	9,290.6	134.5	-282.0	-109.6	0.00	0.00	0.00
9,400.0	3.50	295.49	9,390.4	137.1	-287.5	-111.8	0.00	0.00	0.00
9,500.0	3.50	295.49	9,490.2	139.7	-293.0	-113.9	0.00	0.00	0.00
9,600.0	3.50	295.49	9,590.0	142.3	-298.6	-116.1	0.00	0.00	0.00
9,700.0	3.50	295.49	9,689.8	145.0	-304.1	-118.2	0.00	0.00	0.00
9,800.0	3.50	295.49	9,789.6	147.6	-309.6	-120.3	0.00	0.00	0.00
9,900.0	3.50	295.49	9,889.5	150.2	-315.1	-122.5	0.00	0.00	0.00
10,000.0	3.50	295.49	9,989.3	152.8	-320.6	-124.6	0.00	0.00	0.00
10,100.0	3.50	295.49	10,089.1	155.5	-326.1	-126.8	0.00	0.00	0.00
10,200.0	3.50	295.49	10,188.9	158.1	-331.6	-128.9	0.00	0.00	0.00
10,300.0	3.50	295.49	10,288.7	160.7	-337.1	-131.0	0.00	0.00	0.00
10,400.0	3.50	295.49	10,388.5	163.3	-342.6	-133.2	0.00	0.00	0.00
10,500.0	3.50	295.49	10,488.3	165.9	-348.1	-135.3	0.00	0.00	0.00
10,600.0	3.50	295.49	10,588.2	168.6	-353.6	-137.5	0.00	0.00	0.00



Planning Report

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10,700.0	3.50	295.49	10,688.0	171.2	-359.1	-139.6	0.00	0.00	0.00
10,800.0	3.50	295.49	10,787.8	173.8	-364.6	-141.7	0.00	0.00	0.00
10,900.0	3.50	295.49	10,887.6	176.4	-370.1	-143.9	0.00	0.00	0.00
11,000.0	3.50	295.49	10,987.4	179.1	-375.6	-146.0	0.00	0.00	0.00
11,100.0	3.50	295.49	11,087.2	181.7	-381.1	-148.2	0.00	0.00	0.00
11,200.0	3.50	295.49	11,187.0	184.3	-386.6	-150.3	0.00	0.00	0.00
11,300.0	3.50	295.49	11,286.9	186.9	-392.1	-152.4	0.00	0.00	0.00
11,400.0	3.50	295.49	11,386.7	189.6	-397.6	-154.6	0.00	0.00	0.00
11,500.0	3.50	295.49	11,486.5	192.2	-403.1	-156.7	0.00	0.00	0.00
11,600.0	3.50	295.49	11,586.3	194.8	-408.6	-158.8	0.00	0.00	0.00
11,700.0	3.50	295.49	11,686.1	197.4	-414.1	-161.0	0.00	0.00	0.00
11,800.0	3.50	295.49	11,785.9	200.1	-419.6	-163.1	0.00	0.00	0.00
11,900.0	3.50	295.49	11,885.7	202.7	-425.1	-165.3	0.00	0.00	0.00
12,000.0	3.50	295.49	11,985.6	205.3	-430.6	-167.4	0.00	0.00	0.00
12,100.0	3.50	295.49	12,085.4	207.9	-436.1	-169.5	0.00	0.00	0.00
12,160.2	3.50	295.49	12,145.5	209.5	-439.4	-170.8	0.00	0.00	0.00
12,175.0	3.15	265.06	12,160.2	209.7	-440.3	-170.9	12.00	-2.34	-205.78
12,200.0	4.51	223.47	12,185.2	208.9	-441.6	-170.0	12.00	5.44	-166.36
12,225.0	6.98	206.02	12,210.1	206.8	-443.0	-167.8	12.00	9.89	-69.83
12,250.0	9.75	198.01	12,234.8	203.4	-444.3	-164.4	12.00	11.09	-32.01
12,275.0	12.63	193.57	12,259.3	198.8	-445.6	-159.6	12.00	11.50	-17.76
12,300.0	15.55	190.77	12,283.6	192.8	-446.8	-153.6	12.00	11.69	-11.21
12,325.0	18.50	188.84	12,307.5	185.6	-448.1	-146.3	12.00	11.79	-7.73
12,350.0	21.46	187.42	12,330.9	177.1	-449.3	-137.7	12.00	11.84	-5.66
12,375.0	24.43	186.34	12,354.0	167.5	-450.4	-128.0	12.00	11.88	-4.34
12,400.0	27.40	185.47	12,376.5	156.6	-451.6	-117.1	12.00	11.91	-3.45
12,425.0	30.39	184.77	12,398.3	144.6	-452.6	-105.0	12.00	11.92	-2.82
12,450.0	33.37	184.18	12,419.6	131.4	-453.7	-91.8	12.00	11.94	-2.36
12,475.0	36.36	183.67	12,440.1	117.2	-454.6	-77.5	12.00	11.94	-2.01
12,500.0	39.34	183.24	12,459.8	101.8	-455.6	-62.2	12.00	11.95	-1.75
12,525.0	42.33	182.85	12,478.7	85.5	-456.4	-45.8	12.00	11.96	-1.54
12,550.0	45.32	182.51	12,496.8	68.2	-457.2	-28.6	12.00	11.96	-1.37
12,575.0	48.31	182.20	12,513.9	50.0	-458.0	-10.3	12.00	11.97	-1.24
12,600.0	51.31	181.92	12,530.0	30.9	-458.7	8.7	12.00	11.97	-1.13
12,625.0	54.30	181.66	12,545.1	11.0	-459.3	28.6	12.00	11.97	-1.04
12,650.0	57.29	181.42	12,559.2	-9.6	-459.8	49.2	12.00	11.97	-0.96
12,675.0	60.29	181.19	12,572.1	-31.0	-460.3	70.6	12.00	11.98	-0.90
12,700.0	63.28	180.98	12,583.9	-53.0	-460.7	92.6	12.00	11.98	-0.85
12,725.0	66.28	180.78	12,594.6	-75.6	-461.1	115.1	12.00	11.98	-0.80
12,750.0	69.27	180.59	12,604.0	-98.8	-461.4	138.2	12.00	11.98	-0.77
12,775.0	72.27	180.41	12,612.3	-122.4	-461.6	161.7	12.00	11.98	-0.74
12,800.0	75.26	180.23	12,619.3	-146.4	-461.7	185.6	12.00	11.98	-0.71
12,825.0	78.26	180.05	12,625.0	-170.7	-461.8	209.9	12.00	11.98	-0.69
12,850.0	81.25	179.88	12,629.4	-195.3	-461.7	234.4	12.00	11.98	-0.68
12,875.0	84.25	179.72	12,632.6	-220.1	-461.7	259.1	12.00	11.98	-0.67
12,900.0	87.24	179.55	12,634.4	-245.0	-461.5	283.9	12.00	11.98	-0.66
12,923.0	90.00	179.40	12,635.0	-268.0	-461.3	306.8	12.00	11.98	-0.66
13,000.0	90.00	179.40	12,635.0	-345.0	-460.5	383.4	0.00	0.00	0.00
13,100.0	90.00	179.40	12,635.0	-445.0	-459.4	483.0	0.00	0.00	0.00
13,200.0	90.00	179.40	12,635.0	-545.0	-458.4	582.5	0.00	0.00	0.00
13,300.0	90.00	179.40	12,635.0	-645.0	-457.3	682.0	0.00	0.00	0.00
13,400.0	90.00	179.40	12,635.0	-745.0	-456.3	781.6	0.00	0.00	0.00
13,500.0	90.00	179.40	12,635.0	-845.0	-455.3	881.1	0.00	0.00	0.00
13,600.0	90.00	179.40	12,635.0	-945.0	-454.2	980.6	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: #706H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25 @ 3319.0usft
MD Reference: KB = 25 @ 3319.0usft
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)
13,700.0	90.00	179.40	12,635.0	-1,045.0	-453.2	1,080.2	0.00	0.00	0.00
13,800.0	90.00	179.40	12,635.0	-1,145.0	-452.1	1,179.7	0.00	0.00	0.00
13,900.0	90.00	179.40	12,635.0	-1,245.0	-451.1	1,279.2	0.00	0.00	0.00
14,000.0	90.00	179.40	12,635.0	-1,345.0	-450.0	1,378.8	0.00	0.00	0.00
14,100.0	90.00	179.40	12,635.0	-1,445.0	-449.0	1,478.3	0.00	0.00	0.00
14,200.0	90.00	179.40	12,635.0	-1,545.0	-447.9	1,577.8	0.00	0.00	0.00
14,300.0	90.00	179.40	12,635.0	-1,645.0	-446.9	1,677.4	0.00	0.00	0.00
14,400.0	90.00	179.40	12,635.0	-1,744.9	-445.8	1,776.9	0.00	0.00	0.00
14,500.0	90.00	179.40	12,635.0	-1,844.9	-444.8	1,876.4	0.00	0.00	0.00
14,600.0	90.00	179.40	12,635.0	-1,944.9	-443.7	1,976.0	0.00	0.00	0.00
14,700.0	90.00	179.40	12,635.0	-2,044.9	-442.7	2,075.5	0.00	0.00	0.00
14,800.0	90.00	179.40	12,635.0	-2,144.9	-441.6	2,175.0	0.00	0.00	0.00
14,900.0	90.00	179.40	12,635.0	-2,244.9	-440.6	2,274.5	0.00	0.00	0.00
15,000.0	90.00	179.40	12,635.0	-2,344.9	-439.5	2,374.1	0.00	0.00	0.00
15,100.0	90.00	179.40	12,635.0	-2,444.9	-438.5	2,473.6	0.00	0.00	0.00
15,200.0	90.00	179.40	12,635.0	-2,544.9	-437.4	2,573.1	0.00	0.00	0.00
15,300.0	90.00	179.40	12,635.0	-2,644.9	-436.4	2,672.7	0.00	0.00	0.00
15,400.0	90.00	179.40	12,635.0	-2,744.9	-435.4	2,772.2	0.00	0.00	0.00
15,500.0	90.00	179.40	12,635.0	-2,844.9	-434.3	2,871.7	0.00	0.00	0.00
15,600.0	90.00	179.40	12,635.0	-2,944.9	-433.3	2,971.3	0.00	0.00	0.00
15,700.0	90.00	179.40	12,635.0	-3,044.9	-432.2	3,070.8	0.00	0.00	0.00
15,800.0	90.00	179.40	12,635.0	-3,144.9	-431.2	3,170.3	0.00	0.00	0.00
15,900.0	90.00	179.40	12,635.0	-3,244.9	-430.1	3,269.9	0.00	0.00	0.00
16,000.0	90.00	179.40	12,635.0	-3,344.9	-429.1	3,369.4	0.00	0.00	0.00
16,100.0	90.00	179.40	12,635.0	-3,444.9	-428.0	3,468.9	0.00	0.00	0.00
16,200.0	90.00	179.40	12,635.0	-3,544.9	-427.0	3,568.5	0.00	0.00	0.00
16,300.0	90.00	179.40	12,635.0	-3,644.8	-425.9	3,668.0	0.00	0.00	0.00
16,400.0	90.00	179.40	12,635.0	-3,744.8	-424.9	3,767.5	0.00	0.00	0.00
16,500.0	90.00	179.40	12,635.0	-3,844.8	-423.8	3,867.1	0.00	0.00	0.00
16,600.0	90.00	179.40	12,635.0	-3,944.8	-422.8	3,966.6	0.00	0.00	0.00
16,700.0	90.00	179.40	12,635.0	-4,044.8	-421.7	4,066.1	0.00	0.00	0.00
16,800.0	90.00	179.40	12,635.0	-4,144.8	-420.7	4,165.7	0.00	0.00	0.00
16,900.0	90.00	179.40	12,635.0	-4,244.8	-419.6	4,265.2	0.00	0.00	0.00
17,000.0	90.00	179.40	12,635.0	-4,344.8	-418.6	4,364.7	0.00	0.00	0.00
17,100.0	90.00	179.40	12,635.0	-4,444.8	-417.6	4,464.3	0.00	0.00	0.00
17,200.0	90.00	179.40	12,635.0	-4,544.8	-416.5	4,563.8	0.00	0.00	0.00
17,300.0	90.00	179.40	12,635.0	-4,644.8	-415.5	4,663.3	0.00	0.00	0.00
17,400.0	90.00	179.40	12,635.0	-4,744.8	-414.4	4,762.8	0.00	0.00	0.00
17,439.2	90.00	179.40	12,635.0	-4,784.0	-414.0	4,801.9	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
PBHL (Ruby 2 State Cor - plan hits target center - Point	0.00	0.00	12,635.0	-4,784.0	-414.0	388,834.00	818,840.00	32° 3' 56.946 N	103° 26' 15.018 W
FTP (Ruby 2 State Com - plan misses target center by 39.8usft at 12734.2usft MD (12598.2 TVD, -84.1 N, -461.2 E) - Point	0.00	0.00	12,635.0	-69.0	-463.0	393,549.00	818,791.00	32° 4' 43.605 N	103° 26' 15.133 W



Planning Report

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Local Co-ordinate Reference: Well #706H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature