

Ophelia 27 Fed Com #707H

2420' FNL
2100' FWL
Section 27
T-26-S, R-33-E

Lea County, New Mexico
Proposed Wellbore

API: 30-025-*****

KB: 3,291'
GL: 3,266'

Bit Size: 14-3/4"
10-3/4", 40.5#, J-55, ST&C 0' - 835'

Bit Size: 8-3/4"

7-5/8", 29.7#, HCP-110, FlushMax III
0' - 11,300'

TOC: 10,800'

KOP: 11,976'

Bit Size: 6-3/4"

Bit Size: 6-3/4"

5-1/2", 23#, HCP-110, VAM Top HT 0' - 10,800'
5-1/2", 23#, HCP-110, VAM SG 10,800' - 19,897'

Lateral: 19,897' MD, 12,460' TVD
Upper Most Perf:
2311' FNL & 2317' FWL Sec. 27
Lower Most Perf:
330' FNL & 2316' FWL Sec. 22
BH Location: 230' FNL & 2316' FWL
Section 22
T-26-S, R-33-E



PROJECT DETAILS: Lea County, NM (NAD 27 NME)

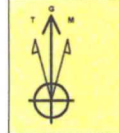
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Lea County, NM (NAD 27 NME)

Ophelia 27 Fed Com

#707H

Plan #0.2



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.59°
Magnetic Field
Strength: 47881.9nT
Dip Angle: 59.88°
Date: 10/25/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.59°
To convert a Magnetic Direction to a True Direction, Add 7.00° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #707H

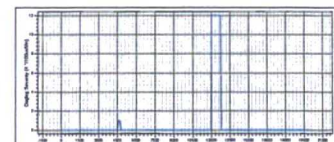
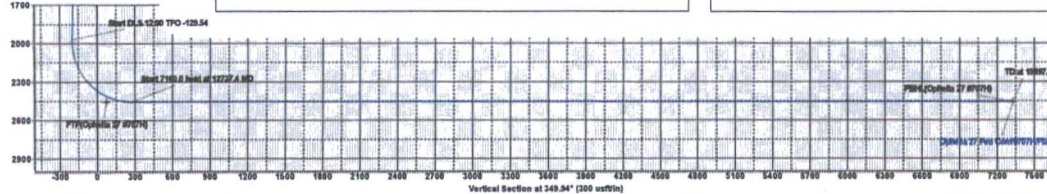
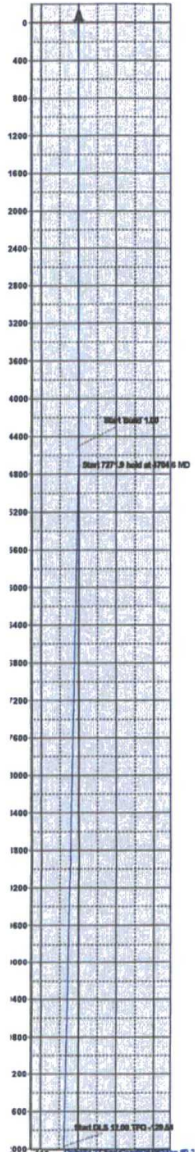
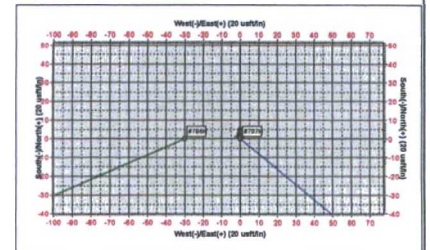
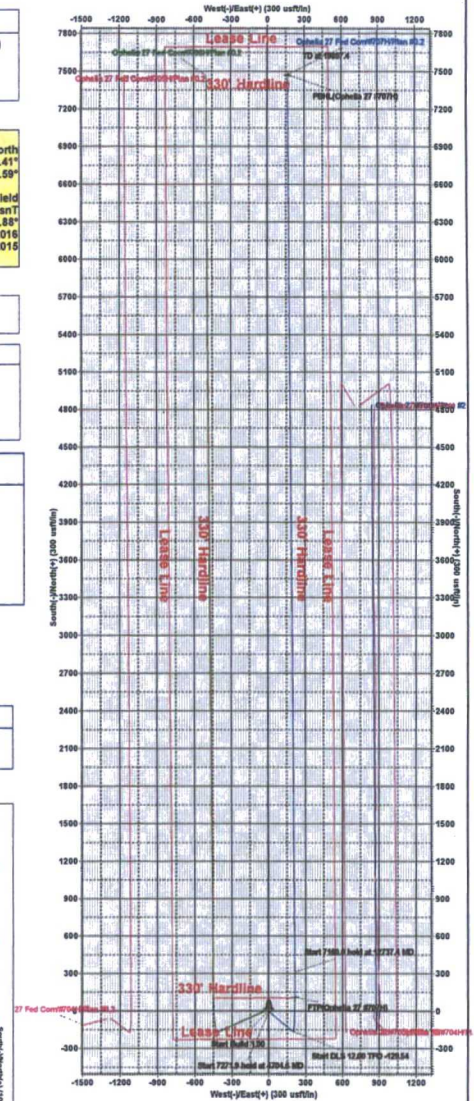
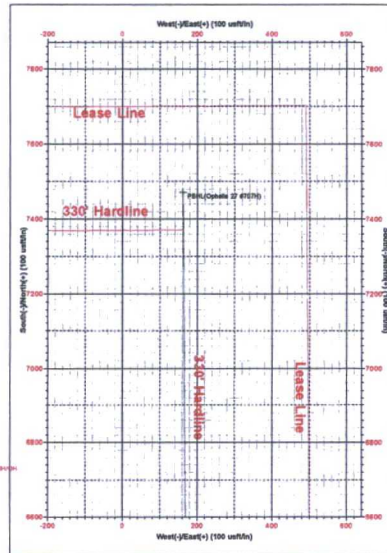
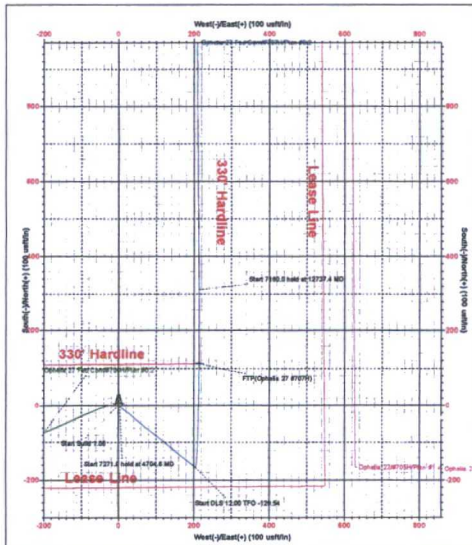
Ground Level: 3286.0
KB = 25' @ 3281.0usft
Easting: 739236.00 32' 0" 53.723 N
Longitude: 103° 33' 41.315 W
Slat

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4704.6	2.05	129.15	4704.6	-2.3	2.8	1.00	129.15	-2.8	
4	11976.5	2.05	129.15	11971.9	-166.2	204.2	0.00	0.00	-199.4	
5	12737.4	90.00	359.59	12460.0	311.2	214.2	12.00	-129.54	269.0	PBHL(Ophelia 27 #707H)
6	19897.4	90.00	359.59	12460.0	7471.0	163.0	0.00	0.00	7327.7	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
FTP(Ophelia 27 #707H)	12460.0	111.0	216.0	370121.00	739482.00	Point
PBHL(Ophelia 27 #707H)	12460.0	7471.0	163.0	377481.00	739399.00	Point



Lea County, NM (NAD 27 NME)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Ophelia 27 Fed Com

#707H

OH

Plan: Plan #0.2

Standard Planning Report

18 July, 2016



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Ophelia 27 Fed Com
Well: #707H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25' @ 3291.0usft
MD Reference: KB = 25' @ 3291.0usft
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 Ophelia 27 Fed Com
Site Position: Northing: 369,951.00 usft Latitude: 32° 0' 53.230 N
From: Map Easting: 737,936.00 usft Longitude: 103° 33' 56.418 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.41°

Well #707H
Well Position +N/-S 59.0 usft Northing: 370,010.00 usft Latitude: 32° 0' 53.723 N
 +E/-W 1,300.0 usft Easting: 739,236.00 usft Longitude: 103° 33' 41.315 W
Position Uncertainty 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,266.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/25/2016	7.00	59.88	47,882

Design Plan #0.2
Audit Notes:
Version: Phase: PLAN Tie On Depth: 0.0
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
 (usft) (usft) (usft) (°)
 0.0 0.0 0.0 349.94

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,704.6	2.05	129.15	4,704.6	-2.3	2.8	1.00	1.00	0.00	129.15	
11,976.5	2.05	129.15	11,971.9	-166.2	204.2	0.00	0.00	0.00	0.00	
12,737.4	90.00	359.59	12,460.0	311.2	214.2	12.00	11.56	-17.03	-129.54	
19,897.4	90.00	359.59	12,460.0	7,471.0	163.0	0.00	0.00	0.00	0.00	PBHL(Ophelia 27 #70



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Ophelia 27 Fed Com
 Well: #707H
 Wellbore: OH
 Design: Plan #0.2

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

Well #707H
 KB = 25' @ 3291.0usft
 KB = 25' @ 3291.0usft
 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	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	129.15	4,600.0	-0.6	0.7	-0.7	1.00	1.00	0.00
4,704.6	2.05	129.15	4,704.6	-2.3	2.8	-2.8	1.00	1.00	0.00
4,800.0	2.05	129.15	4,799.9	-4.5	5.5	-5.3	0.00	0.00	0.00
4,900.0	2.05	129.15	4,899.8	-6.7	8.2	-8.0	0.00	0.00	0.00
5,000.0	2.05	129.15	4,999.8	-9.0	11.0	-10.8	0.00	0.00	0.00
5,100.0	2.05	129.15	5,099.7	-11.2	13.8	-13.5	0.00	0.00	0.00
5,200.0	2.05	129.15	5,199.6	-13.5	16.6	-16.2	0.00	0.00	0.00
5,300.0	2.05	129.15	5,299.6	-15.7	19.3	-18.9	0.00	0.00	0.00



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Planning Report

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Project: Lea County, NM (NAD 27 NME)
Site: Ophelia 27 Fed Com
Well: #707H
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Design: Plan #0.2

Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3291.0usft
MD Reference: KB = 25' @ 3291.0usft
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)
5,400.0	2.05	129.15	5,399.5	-18.0	22.1	-21.6	0.00	0.00	0.00
5,500.0	2.05	129.15	5,499.4	-20.2	24.9	-24.3	0.00	0.00	0.00
5,600.0	2.05	129.15	5,599.4	-22.5	27.6	-27.0	0.00	0.00	0.00
5,700.0	2.05	129.15	5,699.3	-24.7	30.4	-29.7	0.00	0.00	0.00
5,800.0	2.05	129.15	5,799.3	-27.0	33.2	-32.4	0.00	0.00	0.00
5,900.0	2.05	129.15	5,899.2	-29.3	35.9	-35.1	0.00	0.00	0.00
6,000.0	2.05	129.15	5,999.1	-31.5	38.7	-37.8	0.00	0.00	0.00
6,100.0	2.05	129.15	6,099.1	-33.8	41.5	-40.5	0.00	0.00	0.00
6,200.0	2.05	129.15	6,199.0	-36.0	44.2	-43.2	0.00	0.00	0.00
6,300.0	2.05	129.15	6,298.9	-38.3	47.0	-45.9	0.00	0.00	0.00
6,400.0	2.05	129.15	6,398.9	-40.5	49.8	-48.6	0.00	0.00	0.00
6,500.0	2.05	129.15	6,498.8	-42.8	52.6	-51.3	0.00	0.00	0.00
6,600.0	2.05	129.15	6,598.7	-45.0	55.3	-54.0	0.00	0.00	0.00
6,700.0	2.05	129.15	6,698.7	-47.3	58.1	-56.7	0.00	0.00	0.00
6,800.0	2.05	129.15	6,798.6	-49.5	60.9	-59.4	0.00	0.00	0.00
6,900.0	2.05	129.15	6,898.6	-51.8	63.6	-62.1	0.00	0.00	0.00
7,000.0	2.05	129.15	6,998.5	-54.1	66.4	-64.8	0.00	0.00	0.00
7,100.0	2.05	129.15	7,098.4	-56.3	69.2	-67.5	0.00	0.00	0.00
7,200.0	2.05	129.15	7,198.4	-58.6	71.9	-70.2	0.00	0.00	0.00
7,300.0	2.05	129.15	7,298.3	-60.8	74.7	-72.9	0.00	0.00	0.00
7,400.0	2.05	129.15	7,398.2	-63.1	77.5	-75.6	0.00	0.00	0.00
7,500.0	2.05	129.15	7,498.2	-65.3	80.2	-78.3	0.00	0.00	0.00
7,600.0	2.05	129.15	7,598.1	-67.6	83.0	-81.0	0.00	0.00	0.00
7,700.0	2.05	129.15	7,698.0	-69.8	85.8	-83.7	0.00	0.00	0.00
7,800.0	2.05	129.15	7,798.0	-72.1	88.5	-86.4	0.00	0.00	0.00
7,900.0	2.05	129.15	7,897.9	-74.3	91.3	-89.1	0.00	0.00	0.00
8,000.0	2.05	129.15	7,997.9	-76.6	94.1	-91.9	0.00	0.00	0.00
8,100.0	2.05	129.15	8,097.8	-78.9	96.9	-94.6	0.00	0.00	0.00
8,200.0	2.05	129.15	8,197.7	-81.1	99.6	-97.3	0.00	0.00	0.00
8,300.0	2.05	129.15	8,297.7	-83.4	102.4	-100.0	0.00	0.00	0.00
8,400.0	2.05	129.15	8,397.6	-85.6	105.2	-102.7	0.00	0.00	0.00
8,500.0	2.05	129.15	8,497.5	-87.9	107.9	-105.4	0.00	0.00	0.00
8,600.0	2.05	129.15	8,597.5	-90.1	110.7	-108.1	0.00	0.00	0.00
8,700.0	2.05	129.15	8,697.4	-92.4	113.5	-110.8	0.00	0.00	0.00
8,800.0	2.05	129.15	8,797.3	-94.6	116.2	-113.5	0.00	0.00	0.00
8,900.0	2.05	129.15	8,897.3	-96.9	119.0	-116.2	0.00	0.00	0.00
9,000.0	2.05	129.15	8,997.2	-99.1	121.8	-118.9	0.00	0.00	0.00
9,100.0	2.05	129.15	9,097.2	-101.4	124.5	-121.6	0.00	0.00	0.00
9,200.0	2.05	129.15	9,197.1	-103.6	127.3	-124.3	0.00	0.00	0.00
9,300.0	2.05	129.15	9,297.0	-105.9	130.1	-127.0	0.00	0.00	0.00
9,400.0	2.05	129.15	9,397.0	-108.2	132.9	-129.7	0.00	0.00	0.00
9,500.0	2.05	129.15	9,496.9	-110.4	135.6	-132.4	0.00	0.00	0.00
9,600.0	2.05	129.15	9,596.8	-112.7	138.4	-135.1	0.00	0.00	0.00
9,700.0	2.05	129.15	9,696.8	-114.9	141.2	-137.8	0.00	0.00	0.00
9,800.0	2.05	129.15	9,796.7	-117.2	143.9	-140.5	0.00	0.00	0.00
9,900.0	2.05	129.15	9,896.6	-119.4	146.7	-143.2	0.00	0.00	0.00
10,000.0	2.05	129.15	9,996.6	-121.7	149.5	-145.9	0.00	0.00	0.00
10,100.0	2.05	129.15	10,096.5	-123.9	152.2	-148.6	0.00	0.00	0.00
10,200.0	2.05	129.15	10,196.5	-126.2	155.0	-151.3	0.00	0.00	0.00
10,300.0	2.05	129.15	10,296.4	-128.4	157.8	-154.0	0.00	0.00	0.00
10,400.0	2.05	129.15	10,396.3	-130.7	160.5	-156.7	0.00	0.00	0.00
10,500.0	2.05	129.15	10,496.3	-133.0	163.3	-159.4	0.00	0.00	0.00
10,600.0	2.05	129.15	10,596.2	-135.2	166.1	-162.1	0.00	0.00	0.00
10,700.0	2.05	129.15	10,696.1	-137.5	168.9	-164.8	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: Ophelia 27 Fed Com
Well: #707H
Wellbore: OH
Design: Plan #0.2

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

Well #707H
KB = 25' @ 3291.0usft
KB = 25' @ 3291.0usft
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)
10,800.0	2.05	129.15	10,796.1	-139.7	171.6	-167.5	0.00	0.00	0.00
10,900.0	2.05	129.15	10,896.0	-142.0	174.4	-170.2	0.00	0.00	0.00
11,000.0	2.05	129.15	10,995.9	-144.2	177.2	-173.0	0.00	0.00	0.00
11,100.0	2.05	129.15	11,095.9	-146.5	179.9	-175.7	0.00	0.00	0.00
11,200.0	2.05	129.15	11,195.8	-148.7	182.7	-178.4	0.00	0.00	0.00
11,300.0	2.05	129.15	11,295.8	-151.0	185.5	-181.1	0.00	0.00	0.00
11,400.0	2.05	129.15	11,395.7	-153.2	188.2	-183.8	0.00	0.00	0.00
11,500.0	2.05	129.15	11,495.6	-155.5	191.0	-186.5	0.00	0.00	0.00
11,600.0	2.05	129.15	11,595.6	-157.8	193.8	-189.2	0.00	0.00	0.00
11,700.0	2.05	129.15	11,695.5	-160.0	196.5	-191.9	0.00	0.00	0.00
11,800.0	2.05	129.15	11,795.4	-162.3	199.3	-194.6	0.00	0.00	0.00
11,900.0	2.05	129.15	11,895.4	-164.5	202.1	-197.3	0.00	0.00	0.00
11,976.5	2.05	129.15	11,971.9	-166.2	204.2	-199.4	0.00	0.00	0.00
12,000.0	2.19	45.81	11,995.3	-166.2	204.9	-199.4	12.00	0.59	-355.30
12,025.0	4.78	18.83	12,020.3	-164.9	205.5	-198.2	12.00	10.38	-107.92
12,050.0	7.67	11.39	12,045.1	-162.3	206.2	-195.8	12.00	11.58	-29.77
12,075.0	10.63	8.03	12,069.8	-158.3	206.8	-192.0	12.00	11.81	-13.42
12,100.0	13.60	6.13	12,094.2	-153.1	207.5	-187.0	12.00	11.89	-7.62
12,125.0	16.58	4.90	12,118.4	-146.6	208.1	-180.7	12.00	11.93	-4.92
12,150.0	19.57	4.03	12,142.1	-138.9	208.7	-173.2	12.00	11.95	-3.45
12,175.0	22.56	3.39	12,165.5	-129.9	209.3	-164.5	12.00	11.96	-2.57
12,200.0	25.56	2.89	12,188.3	-119.8	209.8	-154.6	12.00	11.97	-2.00
12,225.0	28.55	2.49	12,210.5	-108.4	210.4	-143.5	12.00	11.98	-1.60
12,250.0	31.55	2.16	12,232.2	-95.9	210.9	-131.3	12.00	11.98	-1.32
12,275.0	34.54	1.88	12,253.1	-82.3	211.4	-117.9	12.00	11.98	-1.11
12,300.0	37.54	1.64	12,273.3	-67.6	211.8	-103.5	12.00	11.99	-0.96
12,325.0	40.54	1.44	12,292.8	-51.8	212.2	-88.1	12.00	11.99	-0.83
12,350.0	43.53	1.25	12,311.3	-35.1	212.6	-71.7	12.00	11.99	-0.74
12,375.0	46.53	1.09	12,329.0	-17.4	213.0	-54.4	12.00	11.99	-0.66
12,400.0	49.53	0.94	12,345.7	1.2	213.3	-36.1	12.00	11.99	-0.60
12,425.0	52.53	0.80	12,361.4	20.6	213.6	-17.0	12.00	11.99	-0.55
12,450.0	55.53	0.67	12,376.1	40.8	213.9	2.8	12.00	11.99	-0.50
12,475.0	58.53	0.56	12,389.7	61.8	214.1	23.4	12.00	11.99	-0.47
12,500.0	61.52	0.45	12,402.2	83.4	214.3	44.7	12.00	11.99	-0.44
12,525.0	64.52	0.34	12,413.5	105.7	214.4	66.6	12.00	11.99	-0.42
12,548.7	67.37	0.25	12,423.2	127.4	214.5	87.9	12.00	11.99	-0.40
FTP(Ophelia 27 #707H)									
12,550.0	67.52	0.24	12,423.7	128.6	214.5	89.1	12.00	11.99	-0.39
12,575.0	70.52	0.15	12,432.7	151.9	214.6	112.1	12.00	11.99	-0.38
12,600.0	73.52	0.06	12,440.4	175.7	214.7	135.5	12.00	11.99	-0.37
12,625.0	76.52	359.97	12,446.8	199.8	214.7	159.3	12.00	12.00	-0.35
12,650.0	79.52	359.88	12,452.0	224.3	214.6	183.3	12.00	12.00	-0.35
12,675.0	82.51	359.80	12,455.9	249.0	214.6	207.7	12.00	12.00	-0.34
12,700.0	85.51	359.71	12,458.5	273.8	214.5	232.2	12.00	12.00	-0.33
12,725.0	88.51	359.63	12,459.8	298.8	214.3	256.8	12.00	12.00	-0.33
12,737.4	90.00	359.59	12,460.0	311.2	214.2	269.0	12.00	12.00	-0.33
12,800.0	90.00	359.59	12,460.0	373.8	213.8	330.7	0.00	0.00	0.00
12,900.0	90.00	359.59	12,460.0	473.8	213.1	429.3	0.00	0.00	0.00
13,000.0	90.00	359.59	12,460.0	573.8	212.4	527.9	0.00	0.00	0.00
13,100.0	90.00	359.59	12,460.0	673.8	211.6	626.5	0.00	0.00	0.00
13,200.0	90.00	359.59	12,460.0	773.8	210.9	725.0	0.00	0.00	0.00
13,300.0	90.00	359.59	12,460.0	873.8	210.2	823.6	0.00	0.00	0.00
13,400.0	90.00	359.59	12,460.0	973.8	209.5	922.2	0.00	0.00	0.00



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KB = 25' @ 3291.0usft
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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)
13,500.0	90.00	359.59	12,460.0	1,073.8	208.8	1,020.8	0.00	0.00	0.00
13,600.0	90.00	359.59	12,460.0	1,173.8	208.1	1,119.4	0.00	0.00	0.00
13,700.0	90.00	359.59	12,460.0	1,273.8	207.3	1,218.0	0.00	0.00	0.00
13,800.0	90.00	359.59	12,460.0	1,373.8	206.6	1,316.6	0.00	0.00	0.00
13,900.0	90.00	359.59	12,460.0	1,473.8	205.9	1,415.1	0.00	0.00	0.00
14,000.0	90.00	359.59	12,460.0	1,573.7	205.2	1,513.7	0.00	0.00	0.00
14,100.0	90.00	359.59	12,460.0	1,673.7	204.5	1,612.3	0.00	0.00	0.00
14,200.0	90.00	359.59	12,460.0	1,773.7	203.8	1,710.9	0.00	0.00	0.00
14,300.0	90.00	359.59	12,460.0	1,873.7	203.1	1,809.5	0.00	0.00	0.00
14,400.0	90.00	359.59	12,460.0	1,973.7	202.3	1,908.1	0.00	0.00	0.00
14,500.0	90.00	359.59	12,460.0	2,073.7	201.6	2,006.6	0.00	0.00	0.00
14,600.0	90.00	359.59	12,460.0	2,173.7	200.9	2,105.2	0.00	0.00	0.00
14,700.0	90.00	359.59	12,460.0	2,273.7	200.2	2,203.8	0.00	0.00	0.00
14,800.0	90.00	359.59	12,460.0	2,373.7	199.5	2,302.4	0.00	0.00	0.00
14,900.0	90.00	359.59	12,460.0	2,473.7	198.8	2,401.0	0.00	0.00	0.00
15,000.0	90.00	359.59	12,460.0	2,573.7	198.0	2,499.6	0.00	0.00	0.00
15,100.0	90.00	359.59	12,460.0	2,673.7	197.3	2,598.2	0.00	0.00	0.00
15,200.0	90.00	359.59	12,460.0	2,773.7	196.6	2,696.7	0.00	0.00	0.00
15,300.0	90.00	359.59	12,460.0	2,873.7	195.9	2,795.3	0.00	0.00	0.00
15,400.0	90.00	359.59	12,460.0	2,973.7	195.2	2,893.9	0.00	0.00	0.00
15,500.0	90.00	359.59	12,460.0	3,073.7	194.5	2,992.5	0.00	0.00	0.00
15,600.0	90.00	359.59	12,460.0	3,173.7	193.8	3,091.1	0.00	0.00	0.00
15,700.0	90.00	359.59	12,460.0	3,273.7	193.0	3,189.7	0.00	0.00	0.00
15,800.0	90.00	359.59	12,460.0	3,373.7	192.3	3,288.3	0.00	0.00	0.00
15,900.0	90.00	359.59	12,460.0	3,473.7	191.6	3,386.8	0.00	0.00	0.00
16,000.0	90.00	359.59	12,460.0	3,573.7	190.9	3,485.4	0.00	0.00	0.00
16,100.0	90.00	359.59	12,460.0	3,673.7	190.2	3,584.0	0.00	0.00	0.00
16,200.0	90.00	359.59	12,460.0	3,773.7	189.5	3,682.6	0.00	0.00	0.00
16,300.0	90.00	359.59	12,460.0	3,873.7	188.7	3,781.2	0.00	0.00	0.00
16,400.0	90.00	359.59	12,460.0	3,973.7	188.0	3,879.8	0.00	0.00	0.00
16,500.0	90.00	359.59	12,460.0	4,073.7	187.3	3,978.4	0.00	0.00	0.00
16,600.0	90.00	359.59	12,460.0	4,173.7	186.6	4,076.9	0.00	0.00	0.00
16,700.0	90.00	359.59	12,460.0	4,273.7	185.9	4,175.5	0.00	0.00	0.00
16,800.0	90.00	359.59	12,460.0	4,373.7	185.2	4,274.1	0.00	0.00	0.00
16,900.0	90.00	359.59	12,460.0	4,473.7	184.4	4,372.7	0.00	0.00	0.00
17,000.0	90.00	359.59	12,460.0	4,573.7	183.7	4,471.3	0.00	0.00	0.00
17,100.0	90.00	359.59	12,460.0	4,673.7	183.0	4,569.9	0.00	0.00	0.00
17,200.0	90.00	359.59	12,460.0	4,773.7	182.3	4,668.5	0.00	0.00	0.00
17,300.0	90.00	359.59	12,460.0	4,873.7	181.6	4,767.0	0.00	0.00	0.00
17,400.0	90.00	359.59	12,460.0	4,973.7	180.9	4,865.6	0.00	0.00	0.00
17,500.0	90.00	359.59	12,460.0	5,073.7	180.2	4,964.2	0.00	0.00	0.00
17,600.0	90.00	359.59	12,460.0	5,173.7	179.4	5,062.8	0.00	0.00	0.00
17,700.0	90.00	359.59	12,460.0	5,273.7	178.7	5,161.4	0.00	0.00	0.00
17,800.0	90.00	359.59	12,460.0	5,373.7	178.0	5,260.0	0.00	0.00	0.00
17,900.0	90.00	359.59	12,460.0	5,473.6	177.3	5,358.6	0.00	0.00	0.00
18,000.0	90.00	359.59	12,460.0	5,573.6	176.6	5,457.1	0.00	0.00	0.00
18,100.0	90.00	359.59	12,460.0	5,673.6	175.9	5,555.7	0.00	0.00	0.00
18,200.0	90.00	359.59	12,460.0	5,773.6	175.1	5,654.3	0.00	0.00	0.00
18,300.0	90.00	359.59	12,460.0	5,873.6	174.4	5,752.9	0.00	0.00	0.00
18,400.0	90.00	359.59	12,460.0	5,973.6	173.7	5,851.5	0.00	0.00	0.00
18,500.0	90.00	359.59	12,460.0	6,073.6	173.0	5,950.1	0.00	0.00	0.00
18,600.0	90.00	359.59	12,460.0	6,173.6	172.3	6,048.7	0.00	0.00	0.00
18,700.0	90.00	359.59	12,460.0	6,273.6	171.6	6,147.2	0.00	0.00	0.00
18,800.0	90.00	359.59	12,460.0	6,373.6	170.9	6,245.8	0.00	0.00	0.00



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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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)
18,900.0	90.00	359.59	12,460.0	6,473.6	170.1	6,344.4	0.00	0.00	0.00
19,000.0	90.00	359.59	12,460.0	6,573.6	169.4	6,443.0	0.00	0.00	0.00
19,100.0	90.00	359.59	12,460.0	6,673.6	168.7	6,541.6	0.00	0.00	0.00
19,200.0	90.00	359.59	12,460.0	6,773.6	168.0	6,640.2	0.00	0.00	0.00
19,300.0	90.00	359.59	12,460.0	6,873.6	167.3	6,738.8	0.00	0.00	0.00
19,400.0	90.00	359.59	12,460.0	6,973.6	166.6	6,837.3	0.00	0.00	0.00
19,500.0	90.00	359.59	12,460.0	7,073.6	165.8	6,935.9	0.00	0.00	0.00
19,600.0	90.00	359.59	12,460.0	7,173.6	165.1	7,034.5	0.00	0.00	0.00
19,700.0	90.00	359.59	12,460.0	7,273.6	164.4	7,133.1	0.00	0.00	0.00
19,800.0	90.00	359.59	12,460.0	7,373.6	163.7	7,231.7	0.00	0.00	0.00
19,897.4	90.00	359.59	12,460.0	7,471.0	163.0	7,327.7	0.00	0.00	0.00
PBHL(Ophelia 27 #707H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(Ophelia 27 #707H)	0.00	0.00	12,460.0	111.0	216.0	370,121.00	739,452.00	32° 0' 54.806 N	103° 33' 38.797 W
- hit/miss target									
- Shape									
- plan misses target center by 40.3usft at 12548.7usft MD (12423.2 TVD, 127.4 N, 214.5 E)									
- Point									
PBHL(Ophelia 27 #707H)	0.00	0.01	12,460.0	7,471.0	163.0	377,481.00	739,399.00	32° 2' 7.642 N	103° 33' 38.801 W
- plan hits target center									
- Point									