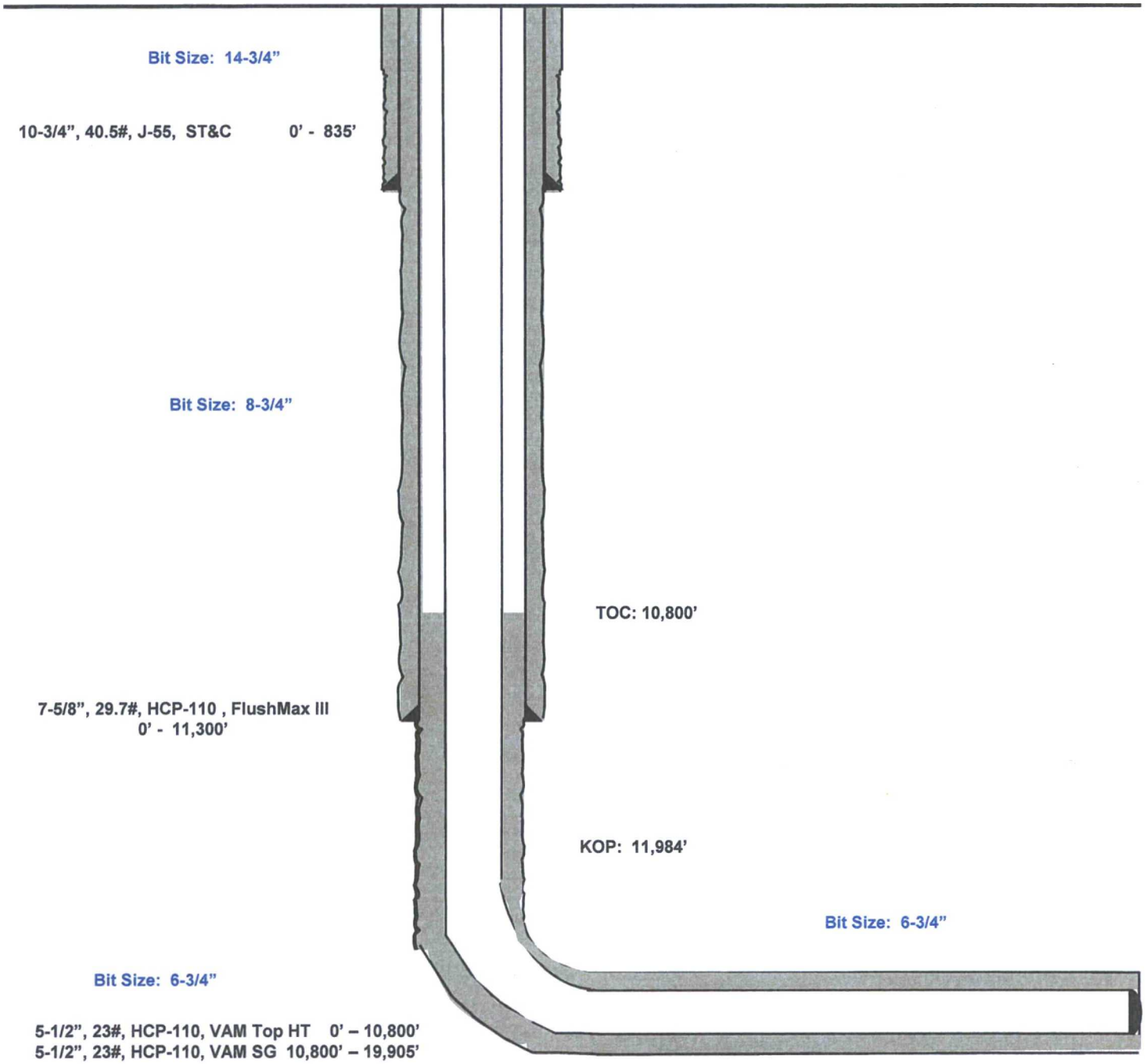
Ophelia 27 Fed Com #706H

Lea County, New Mexico
Proposed Wellbore

2420' FNL
2070' FWL
Section 27
T-26-S, R-33-E

API: 30-025-*****

KB: 3,290'
GL: 3,265'



Lateral: 19,905' MD, 12,460' TVD
Upper Most Perf:
2420' FNL & 2070' FWL Sec. 27
Lower Most Perf:
330' FNL & 1653' FWL Sec. 22
BH Location: 230' FNL & 1653' FWL
Section 22
T-26-S, R-33-E

eog resources

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 #706H

Plan #0.2

Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.60°

Magnetic Field
Strength: 47887.8snT
Dip Angle: 59.88°
Date: 10/4/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.60°
To convert a Magnetic Direction to a True Direction, Add 7.01° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #706H

Ground Level: 3265.0
KB = 25' @ 3290.0usft

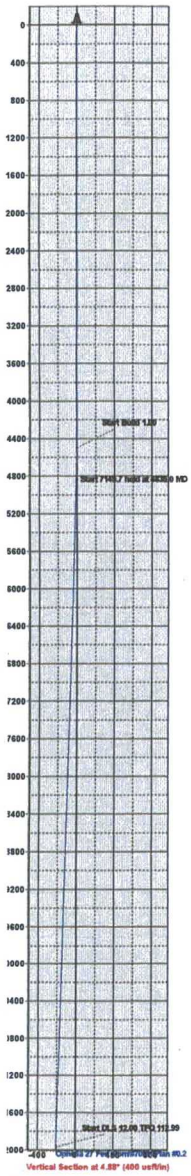
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	370010.00	739206.00	32° 0' 53.725 N	103° 33' 41.663 W	

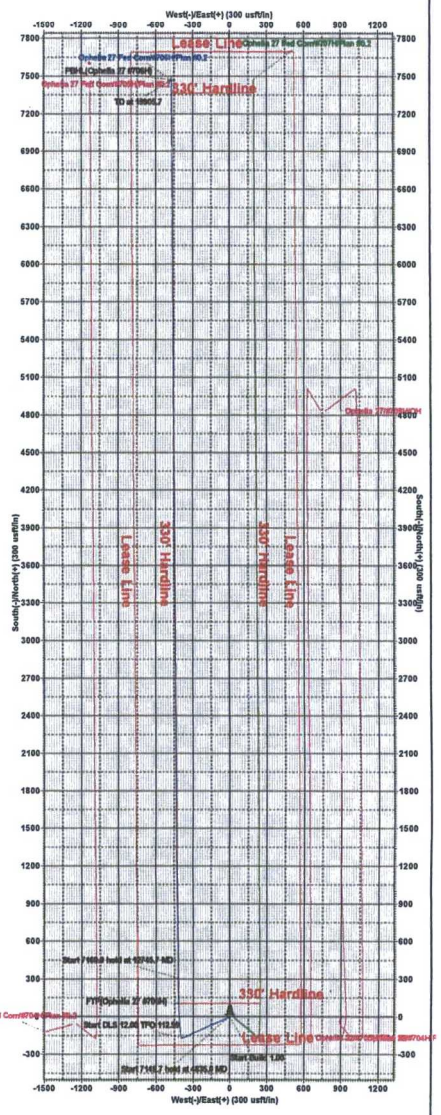
SECTION DETAILS

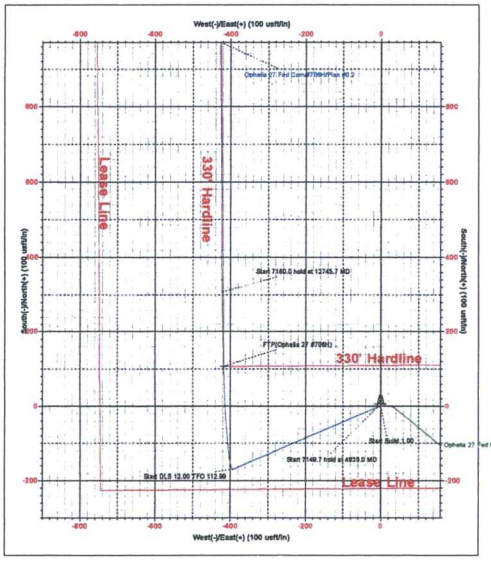
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4835.0	3.35	246.58	4834.8	-3.9	-9.0	1.00	246.58	-1.7	
4	11984.7	3.35	246.58	11972.3	-170.0	-392.4	0.00	0.00	-75.0	
5	12745.7	90.00	359.60	12460.0	307.2	-422.0	12.00	112.99	396.1	
6	19905.7	90.00	359.60	12460.0	7467.0	-472.0	0.00	0.00	7374.9	PBHL(Ophelia 27 #706H)

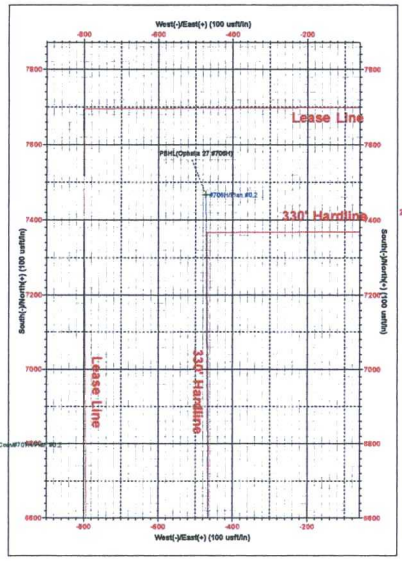
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

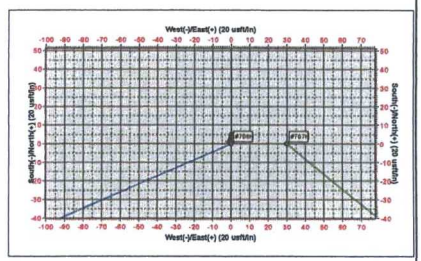
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP(Ophelia 27 #706H)	12460.0	106.0	-417.0	370116.00	738789.00	Point
PBHL(Ophelia 27 #706H)	12460.0	7467.0	-472.0	377477.00	738734.00	Point

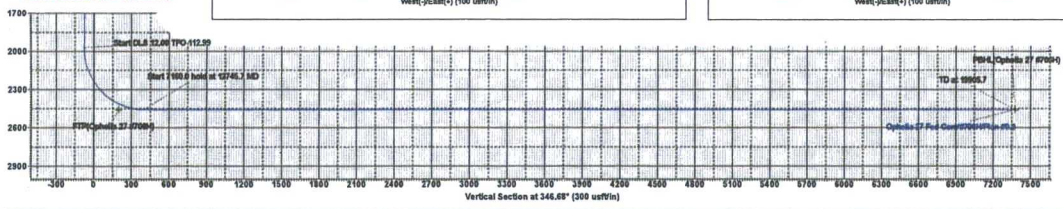


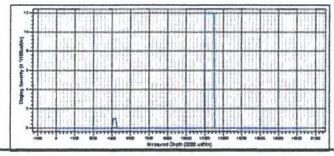












EOG Resources - Midland

Lea County, NM (NAD 27 NME)
Ophelia 27 Fed Com
#706H

OH

Plan: Plan #0.2

Standard Planning Report

18 July, 2016

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #706H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3290.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3290.0usft
Site:	Ophelia 27 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	#706H					
Well Position	**+N/-S**	59.0 usft	**Northing:**	370,010.00 usft	**Latitude:**	32° 0' 53.725 N
	+E/-W	1,270.0 usft	**Easting:**	739,206.00 usft	**Longitude:**	103° 33' 41.663 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,265.0 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	10/4/2016	7.01	59.88	47,888

Design	Plan #0.2				
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	346.68	

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	
4,835.0	3.35	246.58	4,834.8	-3.9	-9.0	1.00	1.00	0.00	246.58	
11,984.7	3.35	246.58	11,972.3	-170.0	-392.4	0.00	0.00	0.00	0.00	
12,745.7	90.00	359.60	12,460.0	307.2	-422.0	12.00	11.39	14.85	112.99	
19,905.7	90.00	359.60	12,460.0	7,467.0	-472.0	0.00	0.00	0.00	0.00	PBHL(Ophelia 27 #70

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #706H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3290.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3290.0usft
Site:	Ophelia 27 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	246.58	4,600.0	-0.3	-0.8	-0.2	1.00	1.00	0.00
4,700.0	2.00	246.58	4,700.0	-1.4	-3.2	-0.6	1.00	1.00	0.00
4,800.0	3.00	246.58	4,799.9	-3.1	-7.2	-1.4	1.00	1.00	0.00
4,835.0	3.35	246.58	4,834.8	-3.9	-9.0	-1.7	1.00	1.00	0.00
4,900.0	3.35	246.58	4,899.7	-5.4	-12.5	-2.4	0.00	0.00	0.00
5,000.0	3.35	246.58	4,999.5	-7.7	-17.8	-3.4	0.00	0.00	0.00
5,100.0	3.35	246.58	5,099.4	-10.0	-23.2	-4.4	0.00	0.00	0.00
5,200.0	3.35	246.58	5,199.2	-12.4	-28.6	-5.5	0.00	0.00	0.00

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Site:	Ophelia 27 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	3.35	246.58	5,299.0	-14.7	-33.9	-6.5	0.00	0.00	0.00
5,400.0	3.35	246.58	5,398.8	-17.0	-39.3	-7.5	0.00	0.00	0.00
5,500.0	3.35	246.58	5,498.7	-19.3	-44.6	-8.5	0.00	0.00	0.00
5,600.0	3.35	246.58	5,598.5	-21.7	-50.0	-9.6	0.00	0.00	0.00
5,700.0	3.35	246.58	5,698.3	-24.0	-55.4	-10.6	0.00	0.00	0.00
5,800.0	3.35	246.58	5,798.2	-26.3	-60.7	-11.6	0.00	0.00	0.00
5,900.0	3.35	246.58	5,898.0	-28.6	-66.1	-12.6	0.00	0.00	0.00
6,000.0	3.35	246.58	5,997.8	-31.0	-71.5	-13.7	0.00	0.00	0.00
6,100.0	3.35	246.58	6,097.6	-33.3	-76.8	-14.7	0.00	0.00	0.00
6,200.0	3.35	246.58	6,197.5	-35.6	-82.2	-15.7	0.00	0.00	0.00
6,300.0	3.35	246.58	6,297.3	-37.9	-87.5	-16.7	0.00	0.00	0.00
6,400.0	3.35	246.58	6,397.1	-40.2	-92.9	-17.8	0.00	0.00	0.00
6,500.0	3.35	246.58	6,497.0	-42.6	-98.3	-18.8	0.00	0.00	0.00
6,600.0	3.35	246.58	6,596.8	-44.9	-103.6	-19.8	0.00	0.00	0.00
6,700.0	3.35	246.58	6,696.6	-47.2	-109.0	-20.8	0.00	0.00	0.00
6,800.0	3.35	246.58	6,796.5	-49.5	-114.3	-21.9	0.00	0.00	0.00
6,900.0	3.35	246.58	6,896.3	-51.9	-119.7	-22.9	0.00	0.00	0.00
7,000.0	3.35	246.58	6,996.1	-54.2	-125.1	-23.9	0.00	0.00	0.00
7,100.0	3.35	246.58	7,095.9	-56.5	-130.4	-24.9	0.00	0.00	0.00
7,200.0	3.35	246.58	7,195.8	-58.8	-135.8	-26.0	0.00	0.00	0.00
7,300.0	3.35	246.58	7,295.6	-61.2	-141.2	-27.0	0.00	0.00	0.00
7,400.0	3.35	246.58	7,395.4	-63.5	-146.5	-28.0	0.00	0.00	0.00
7,500.0	3.35	246.58	7,495.3	-65.8	-151.9	-29.0	0.00	0.00	0.00
7,600.0	3.35	246.58	7,595.1	-68.1	-157.2	-30.1	0.00	0.00	0.00
7,700.0	3.35	246.58	7,694.9	-70.4	-162.6	-31.1	0.00	0.00	0.00
7,800.0	3.35	246.58	7,794.7	-72.8	-168.0	-32.1	0.00	0.00	0.00
7,900.0	3.35	246.58	7,894.6	-75.1	-173.3	-33.1	0.00	0.00	0.00
8,000.0	3.35	246.58	7,994.4	-77.4	-178.7	-34.2	0.00	0.00	0.00
8,100.0	3.35	246.58	8,094.2	-79.7	-184.1	-35.2	0.00	0.00	0.00
8,200.0	3.35	246.58	8,194.1	-82.1	-189.4	-36.2	0.00	0.00	0.00
8,300.0	3.35	246.58	8,293.9	-84.4	-194.8	-37.2	0.00	0.00	0.00
8,400.0	3.35	246.58	8,393.7	-86.7	-200.1	-38.3	0.00	0.00	0.00
8,500.0	3.35	246.58	8,493.5	-89.0	-205.5	-39.3	0.00	0.00	0.00
8,600.0	3.35	246.58	8,593.4	-91.3	-210.9	-40.3	0.00	0.00	0.00
8,700.0	3.35	246.58	8,693.2	-93.7	-216.2	-41.3	0.00	0.00	0.00
8,800.0	3.35	246.58	8,793.0	-96.0	-221.6	-42.4	0.00	0.00	0.00
8,900.0	3.35	246.58	8,892.9	-98.3	-227.0	-43.4	0.00	0.00	0.00
9,000.0	3.35	246.58	8,992.7	-100.6	-232.3	-44.4	0.00	0.00	0.00
9,100.0	3.35	246.58	9,092.5	-103.0	-237.7	-45.4	0.00	0.00	0.00
9,200.0	3.35	246.58	9,192.4	-105.3	-243.0	-46.5	0.00	0.00	0.00
9,300.0	3.35	246.58	9,292.2	-107.6	-248.4	-47.5	0.00	0.00	0.00
9,400.0	3.35	246.58	9,392.0	-109.9	-253.8	-48.5	0.00	0.00	0.00
9,500.0	3.35	246.58	9,491.8	-112.3	-259.1	-49.5	0.00	0.00	0.00
9,600.0	3.35	246.58	9,591.7	-114.6	-264.5	-50.6	0.00	0.00	0.00
9,700.0	3.35	246.58	9,691.5	-116.9	-269.8	-51.6	0.00	0.00	0.00
9,800.0	3.35	246.58	9,791.3	-119.2	-275.2	-52.6	0.00	0.00	0.00
9,900.0	3.35	246.58	9,891.2	-121.5	-280.6	-53.6	0.00	0.00	0.00
10,000.0	3.35	246.58	9,991.0	-123.9	-285.9	-54.7	0.00	0.00	0.00
10,100.0	3.35	246.58	10,090.8	-126.2	-291.3	-55.7	0.00	0.00	0.00
10,200.0	3.35	246.58	10,190.6	-128.5	-296.7	-56.7	0.00	0.00	0.00
10,300.0	3.35	246.58	10,290.5	-130.8	-302.0	-57.7	0.00	0.00	0.00
10,400.0	3.35	246.58	10,390.3	-133.2	-307.4	-58.8	0.00	0.00	0.00
10,500.0	3.35	246.58	10,490.1	-135.5	-312.7	-59.8	0.00	0.00	0.00
10,600.0	3.35	246.58	10,590.0	-137.8	-318.1	-60.8	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #706H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3290.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3290.0usft
Site:	Ophelia 27 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	3.35	246.58	10,689.8	-140.1	-323.5	-61.8	0.00	0.00	0.00
10,800.0	3.35	246.58	10,789.6	-142.5	-328.8	-62.9	0.00	0.00	0.00
10,900.0	3.35	246.58	10,889.4	-144.8	-334.2	-63.9	0.00	0.00	0.00
11,000.0	3.35	246.58	10,989.3	-147.1	-339.6	-64.9	0.00	0.00	0.00
11,100.0	3.35	246.58	11,089.1	-149.4	-344.9	-65.9	0.00	0.00	0.00
11,200.0	3.35	246.58	11,188.9	-151.7	-350.3	-67.0	0.00	0.00	0.00
11,300.0	3.35	246.58	11,288.8	-154.1	-355.6	-68.0	0.00	0.00	0.00
11,400.0	3.35	246.58	11,388.6	-156.4	-361.0	-69.0	0.00	0.00	0.00
11,500.0	3.35	246.58	11,488.4	-158.7	-366.4	-70.0	0.00	0.00	0.00
11,600.0	3.35	246.58	11,588.2	-161.0	-371.7	-71.1	0.00	0.00	0.00
11,700.0	3.35	246.58	11,688.1	-163.4	-377.1	-72.1	0.00	0.00	0.00
11,800.0	3.35	246.58	11,787.9	-165.7	-382.4	-73.1	0.00	0.00	0.00
11,900.0	3.35	246.58	11,887.7	-168.0	-387.8	-74.1	0.00	0.00	0.00
11,984.7	3.35	246.58	11,972.3	-170.0	-392.4	-75.0	0.00	0.00	0.00
12,000.0	3.13	279.21	11,987.6	-170.1	-393.2	-74.9	12.00	-1.46	213.82
12,025.0	4.68	318.44	12,012.5	-169.2	-394.5	-73.8	12.00	6.21	156.94
12,050.0	7.21	334.40	12,037.4	-167.0	-395.9	-71.3	12.00	10.13	63.83
12,075.0	10.00	341.82	12,062.1	-163.6	-397.2	-67.6	12.00	11.17	29.67
12,100.0	12.89	345.98	12,086.6	-158.8	-398.6	-62.7	12.00	11.54	16.66
12,125.0	15.82	348.64	12,110.8	-152.7	-399.9	-56.5	12.00	11.71	10.62
12,150.0	18.77	350.48	12,134.7	-145.4	-401.3	-49.1	12.00	11.80	7.36
12,175.0	21.73	351.83	12,158.1	-136.9	-402.6	-40.4	12.00	11.85	5.42
12,200.0	24.70	352.87	12,181.1	-127.1	-403.9	-30.6	12.00	11.89	4.17
12,225.0	27.68	353.71	12,203.5	-116.2	-405.2	-19.7	12.00	11.91	3.32
12,250.0	30.66	354.39	12,225.4	-104.0	-406.4	-7.6	12.00	11.93	2.72
12,275.0	33.65	354.96	12,246.5	-90.8	-407.7	5.6	12.00	11.94	2.28
12,300.0	36.63	355.44	12,267.0	-76.4	-408.9	19.8	12.00	11.95	1.95
12,325.0	39.62	355.87	12,286.6	-61.1	-410.0	35.1	12.00	11.95	1.70
12,350.0	42.61	356.24	12,305.5	-44.7	-411.2	51.3	12.00	11.96	1.49
12,375.0	45.60	356.58	12,323.4	-27.3	-412.3	68.4	12.00	11.96	1.33
12,400.0	48.60	356.88	12,340.4	-9.0	-413.3	86.4	12.00	11.97	1.20
12,425.0	51.59	357.15	12,356.5	10.1	-414.3	105.3	12.00	11.97	1.10
12,450.0	54.58	357.40	12,371.5	30.1	-415.3	125.0	12.00	11.97	1.01
12,475.0	57.57	357.64	12,385.4	50.8	-416.2	145.3	12.00	11.97	0.94
12,500.0	60.57	357.86	12,398.3	72.2	-417.0	166.4	12.00	11.98	0.88
12,525.0	63.56	358.06	12,410.0	94.3	-417.8	188.0	12.00	11.98	0.83
12,550.0	66.56	358.26	12,420.5	117.0	-418.5	210.2	12.00	11.98	0.79
12,554.5	67.10	358.30	12,422.3	121.1	-418.6	214.3	12.00	11.98	0.76
FTP(Ophelia 27 #706H)									
12,575.0	69.55	358.45	12,429.9	140.1	-419.2	232.9	12.00	11.98	0.75
12,600.0	72.55	358.63	12,438.0	163.8	-419.8	256.1	12.00	11.98	0.72
12,625.0	75.54	358.80	12,444.9	187.8	-420.3	279.6	12.00	11.98	0.70
12,650.0	78.54	358.97	12,450.5	212.2	-420.8	303.4	12.00	11.98	0.68
12,675.0	81.53	359.14	12,454.8	236.8	-421.2	327.4	12.00	11.98	0.67
12,700.0	84.53	359.30	12,457.8	261.6	-421.5	351.7	12.00	11.98	0.66
12,725.0	87.53	359.47	12,459.6	286.5	-421.8	376.0	12.00	11.98	0.65
12,745.7	90.00	359.60	12,460.0	307.2	-422.0	396.1	12.00	11.98	0.65
12,800.0	90.00	359.60	12,460.0	361.5	-422.3	449.1	0.00	0.00	0.00
12,900.0	90.00	359.60	12,460.0	461.5	-423.0	546.6	0.00	0.00	0.00
13,000.0	90.00	359.60	12,460.0	561.5	-423.7	644.0	0.00	0.00	0.00
13,100.0	90.00	359.60	12,460.0	661.5	-424.4	741.5	0.00	0.00	0.00
13,200.0	90.00	359.60	12,460.0	761.5	-425.1	839.0	0.00	0.00	0.00
13,300.0	90.00	359.60	12,460.0	861.5	-425.8	936.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #706H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3290.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3290.0usft
Site:	Ophelia 27 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
13,400.0	90.00	359.60	12,460.0	961.5	-426.5	1,033.9	0.00	0.00	0.00
13,500.0	90.00	359.60	12,460.0	1,061.5	-427.2	1,131.4	0.00	0.00	0.00
13,600.0	90.00	359.60	12,460.0	1,161.5	-427.9	1,228.8	0.00	0.00	0.00
13,700.0	90.00	359.60	12,460.0	1,261.5	-428.6	1,326.3	0.00	0.00	0.00
13,800.0	90.00	359.60	12,460.0	1,361.5	-429.3	1,423.8	0.00	0.00	0.00
13,900.0	90.00	359.60	12,460.0	1,461.5	-430.0	1,521.3	0.00	0.00	0.00
14,000.0	90.00	359.60	12,460.0	1,561.5	-430.7	1,618.7	0.00	0.00	0.00
14,100.0	90.00	359.60	12,460.0	1,661.5	-431.4	1,716.2	0.00	0.00	0.00
14,200.0	90.00	359.60	12,460.0	1,761.5	-432.1	1,813.7	0.00	0.00	0.00
14,300.0	90.00	359.60	12,460.0	1,861.5	-432.8	1,911.1	0.00	0.00	0.00
14,400.0	90.00	359.60	12,460.0	1,961.5	-433.5	2,008.6	0.00	0.00	0.00
14,500.0	90.00	359.60	12,460.0	2,061.5	-434.2	2,106.1	0.00	0.00	0.00
14,600.0	90.00	359.60	12,460.0	2,161.5	-434.9	2,203.5	0.00	0.00	0.00
14,700.0	90.00	359.60	12,460.0	2,261.5	-435.6	2,301.0	0.00	0.00	0.00
14,800.0	90.00	359.60	12,460.0	2,361.5	-436.3	2,398.5	0.00	0.00	0.00
14,900.0	90.00	359.60	12,460.0	2,461.5	-437.0	2,495.9	0.00	0.00	0.00
15,000.0	90.00	359.60	12,460.0	2,561.5	-437.7	2,593.4	0.00	0.00	0.00
15,100.0	90.00	359.60	12,460.0	2,661.5	-438.4	2,690.9	0.00	0.00	0.00
15,200.0	90.00	359.60	12,460.0	2,761.5	-439.1	2,788.3	0.00	0.00	0.00
15,300.0	90.00	359.60	12,460.0	2,861.5	-439.8	2,885.8	0.00	0.00	0.00
15,400.0	90.00	359.60	12,460.0	2,961.5	-440.5	2,983.3	0.00	0.00	0.00
15,500.0	90.00	359.60	12,460.0	3,061.5	-441.2	3,080.8	0.00	0.00	0.00
15,600.0	90.00	359.60	12,460.0	3,161.5	-441.9	3,178.2	0.00	0.00	0.00
15,700.0	90.00	359.60	12,460.0	3,261.5	-442.6	3,275.7	0.00	0.00	0.00
15,800.0	90.00	359.60	12,460.0	3,361.4	-443.3	3,373.2	0.00	0.00	0.00
15,900.0	90.00	359.60	12,460.0	3,461.4	-444.0	3,470.6	0.00	0.00	0.00
16,000.0	90.00	359.60	12,460.0	3,561.4	-444.7	3,568.1	0.00	0.00	0.00
16,100.0	90.00	359.60	12,460.0	3,661.4	-445.4	3,665.6	0.00	0.00	0.00
16,200.0	90.00	359.60	12,460.0	3,761.4	-446.1	3,763.0	0.00	0.00	0.00
16,300.0	90.00	359.60	12,460.0	3,861.4	-446.8	3,860.5	0.00	0.00	0.00
16,400.0	90.00	359.60	12,460.0	3,961.4	-447.5	3,958.0	0.00	0.00	0.00
16,500.0	90.00	359.60	12,460.0	4,061.4	-448.2	4,055.4	0.00	0.00	0.00
16,600.0	90.00	359.60	12,460.0	4,161.4	-448.9	4,152.9	0.00	0.00	0.00
16,700.0	90.00	359.60	12,460.0	4,261.4	-449.6	4,250.4	0.00	0.00	0.00
16,800.0	90.00	359.60	12,460.0	4,361.4	-450.3	4,347.8	0.00	0.00	0.00
16,900.0	90.00	359.60	12,460.0	4,461.4	-451.0	4,445.3	0.00	0.00	0.00
17,000.0	90.00	359.60	12,460.0	4,561.4	-451.7	4,542.8	0.00	0.00	0.00
17,100.0	90.00	359.60	12,460.0	4,661.4	-452.4	4,640.2	0.00	0.00	0.00
17,200.0	90.00	359.60	12,460.0	4,761.4	-453.1	4,737.7	0.00	0.00	0.00
17,300.0	90.00	359.60	12,460.0	4,861.4	-453.8	4,835.2	0.00	0.00	0.00
17,400.0	90.00	359.60	12,460.0	4,961.4	-454.5	4,932.7	0.00	0.00	0.00
17,500.0	90.00	359.60	12,460.0	5,061.4	-455.2	5,030.1	0.00	0.00	0.00
17,600.0	90.00	359.60	12,460.0	5,161.4	-455.9	5,127.6	0.00	0.00	0.00
17,700.0	90.00	359.60	12,460.0	5,261.4	-456.6	5,225.1	0.00	0.00	0.00
17,800.0	90.00	359.60	12,460.0	5,361.4	-457.3	5,322.5	0.00	0.00	0.00
17,900.0	90.00	359.60	12,460.0	5,461.4	-458.0	5,420.0	0.00	0.00	0.00
18,000.0	90.00	359.60	12,460.0	5,561.4	-458.7	5,517.5	0.00	0.00	0.00
18,100.0	90.00	359.60	12,460.0	5,661.4	-459.4	5,614.9	0.00	0.00	0.00
18,200.0	90.00	359.60	12,460.0	5,761.4	-460.1	5,712.4	0.00	0.00	0.00
18,300.0	90.00	359.60	12,460.0	5,861.4	-460.8	5,809.9	0.00	0.00	0.00
18,400.0	90.00	359.60	12,460.0	5,961.4	-461.5	5,907.3	0.00	0.00	0.00
18,500.0	90.00	359.60	12,460.0	6,061.4	-462.2	6,004.8	0.00	0.00	0.00
18,600.0	90.00	359.60	12,460.0	6,161.4	-462.9	6,102.3	0.00	0.00	0.00
18,700.0	90.00	359.60	12,460.0	6,261.4	-463.6	6,199.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #706H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3290.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3290.0usft
Site:	Ophelia 27 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
18,800.0	90.00	359.60	12,460.0	6,361.4	-464.3	6,297.2	0.00	0.00	0.00
18,900.0	90.00	359.60	12,460.0	6,461.4	-465.0	6,394.7	0.00	0.00	0.00
19,000.0	90.00	359.60	12,460.0	6,561.4	-465.7	6,492.2	0.00	0.00	0.00
19,100.0	90.00	359.60	12,460.0	6,661.4	-466.4	6,589.6	0.00	0.00	0.00
19,200.0	90.00	359.60	12,460.0	6,761.4	-467.1	6,687.1	0.00	0.00	0.00
19,300.0	90.00	359.60	12,460.0	6,861.4	-467.8	6,784.6	0.00	0.00	0.00
19,400.0	90.00	359.60	12,460.0	6,961.4	-468.5	6,882.0	0.00	0.00	0.00
19,500.0	90.00	359.60	12,460.0	7,061.4	-469.2	6,979.5	0.00	0.00	0.00
19,600.0	90.00	359.60	12,460.0	7,161.4	-469.9	7,077.0	0.00	0.00	0.00
19,700.0	90.00	359.60	12,460.0	7,261.4	-470.6	7,174.4	0.00	0.00	0.00
19,800.0	90.00	359.60	12,460.0	7,361.4	-471.3	7,271.9	0.00	0.00	0.00
19,905.7	90.00	359.60	12,460.0	7,467.0	-472.0	7,374.9	0.00	0.00	0.00
PBHL(Ophelia 27 #706H)									

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(Ophelia 27 #706H - plan hits target center - Point	0.00	0.00	12,460.0	7,467.0	-472.0	377,477.00	738,734.00	32° 2' 7.650 N	103° 33' 46.527 W
FTP(Ophelia 27 #706H) - plan misses target center by 40.6usft at 12554.5usft MD (12422.3 TVD, 121.1 N, -418.6 E) - Point	0.00	0.00	12,460.0	106.0	-417.0	370,116.00	738,789.00	32° 0' 54.803 N	103° 33' 46.497 W