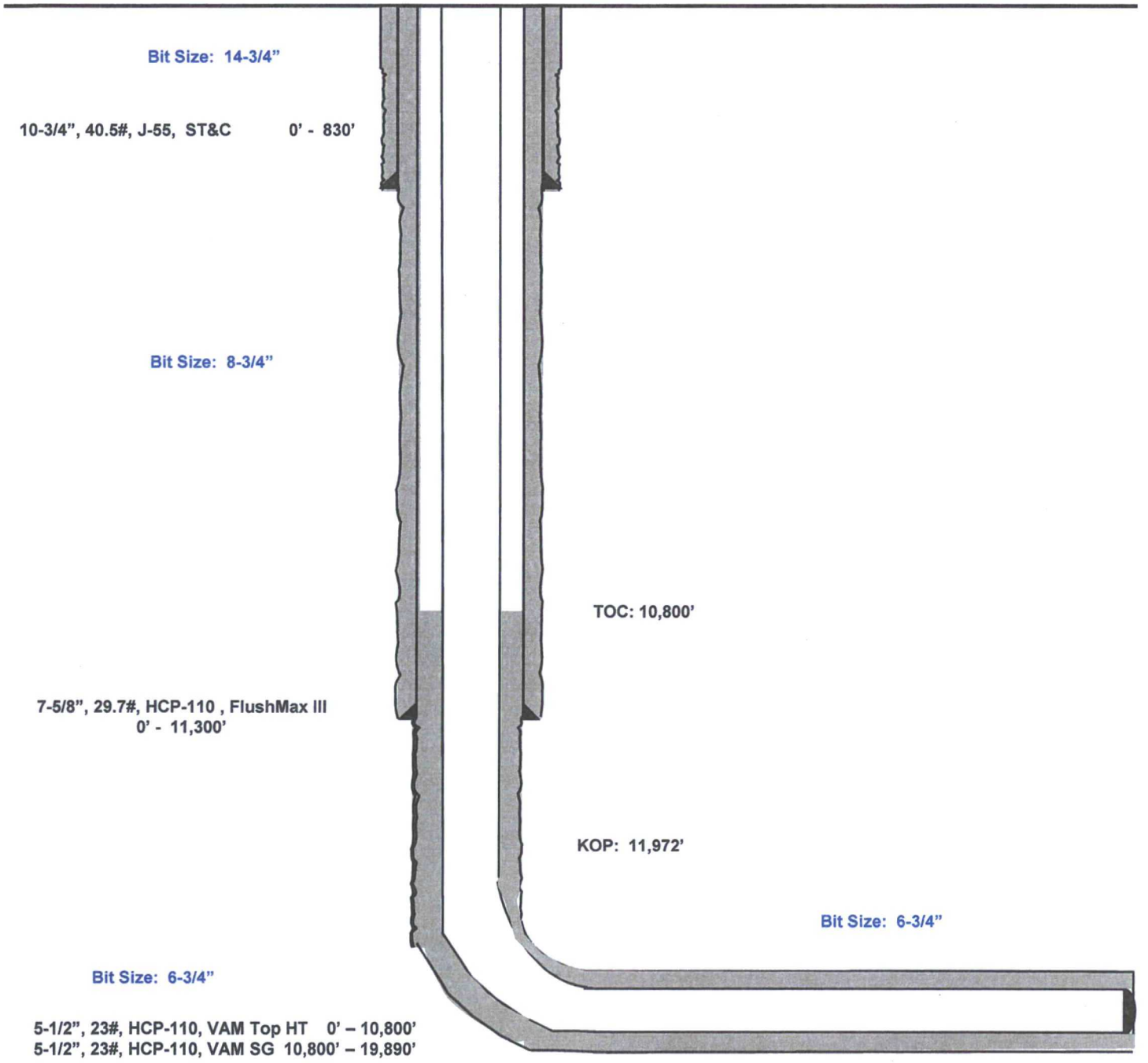
Ophelia 27 Fed Com #705H

Lea County, New Mexico
Proposed Wellbore

2470' FNL
830' FWL
Section 27
T-26-S, R-33-E

API: 30-025-*****

KB: 3,287'
GL: 3,262'



Lateral: 19,890' MD, 12,455' TVD
Upper Most Perf:
2311' FNL & 993' FWL Sec. 27
Lower Most Perf:
330' FNL & 993' FWL Sec. 22
BH Location: 230' FNL & 993' 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 #705H

Plan #0.2

Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.66°

Magnetic Field
Strength: 47944.2snT
Dip Angle: 59.89°
Date: 3/15/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.66°
To convert a Magnetic Direction to a True Direction, Add 7.07° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #705H

Ground Level: 3262.0
KB = 25' @ 3287.0usft

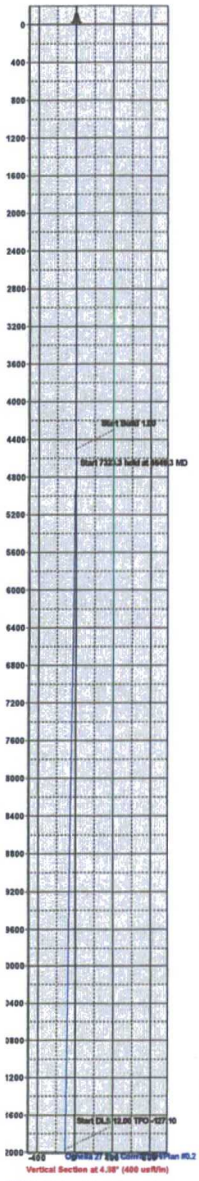
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	369952.00	737966.00	32° 0' 53.238 N	103° 33' 56.069 W	

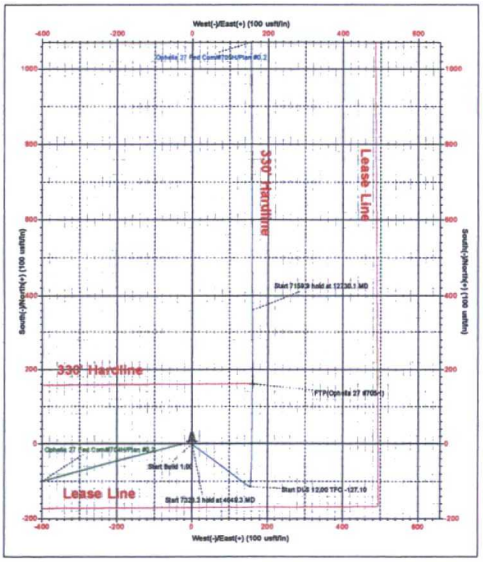
SECTION DETAILS

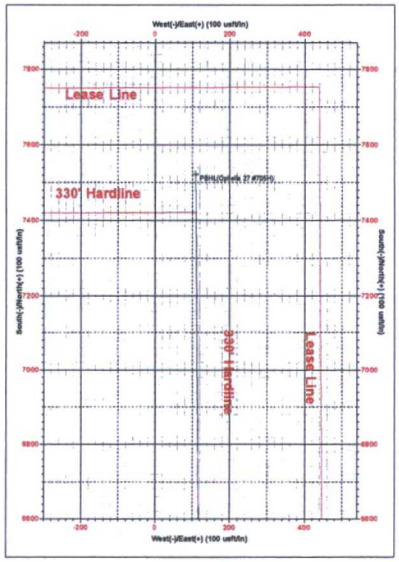
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4649.3	1.49	126.70	4649.3	-1.2	1.6	1.00	126.70	-1.1	
4	11972.6	1.49	126.70	11970.1	-115.2	154.6	0.00	0.00	-112.9	
5	12730.1	90.00	359.59	12455.0	362.3	161.2	12.00	-127.10	364.6	
6	19890.1	90.00	359.59	12455.0	7522.0	110.0	0.00	0.00	7522.8	PBHL(Ophelia 27 #705H)

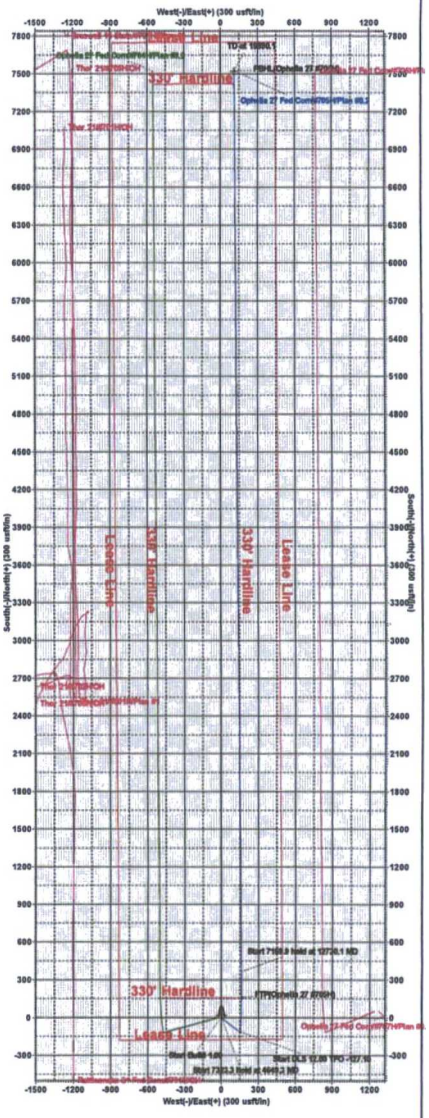
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

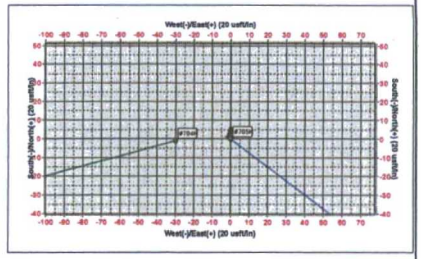
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP(Ophelia 27 #705H)	12455.0	169.0	163.0	370111.00	738129.00	Point
PBHL(Ophelia 27 #705H)	12455.0	7522.0	110.0	377474.00	738076.00	Point

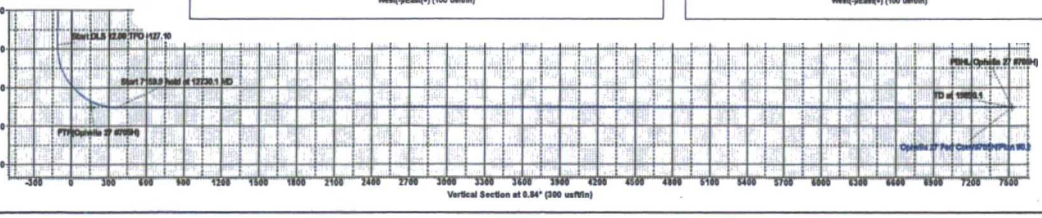


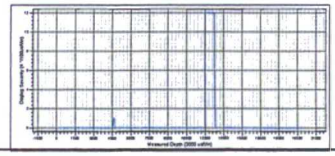












EOG Resources - Midland

Lea County, NM (NAD 27 NME)
Ophelia 27
#704H

OH

Plan: Plan #0.2

Standard Planning Report

05 August, 2016

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #704H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3287.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3287.0usft
Site:	Ophelia 27	**North Reference:**	Grid
Well:	#704H	**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				
Site Position:		**Northing:**	370,025.00 usft	**Latitude:**	32° 0' 53.711 N
From:	Map	**Easting:**	741,483.00 usft	**Longitude:**	103° 33' 15.217 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.41 °

Well	#704H					
Well Position	**+N/-S**	-74.0 usft	**Northing:**	369,951.00 usft	**Latitude:**	32° 0' 53.230 N
	+E/-W	-3,547.0 usft	**Easting:**	737,936.00 usft	**Longitude:**	103° 33' 56.418 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,262.0 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	2/19/2016	7.08	59.89	47,951

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	356.03	

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	
4,497.0	0.00	0.00	4,497.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,853.9	3.57	254.97	4,853.6	-2.9	-10.7	1.00	1.00	0.00	254.97	
11,985.0	3.57	254.97	11,970.9	-118.0	-439.4	0.00	0.00	0.00	0.00	
12,742.5	90.00	359.60	12,455.0	359.2	-472.0	12.00	11.41	13.81	104.61	
19,902.5	90.00	359.60	12,455.0	7,519.0	-522.0	0.00	0.00	0.00	0.00	PBHL(Ophelia 27 #70

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #704H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3287.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3287.0usft
Site:	Ophelia 27	**North Reference:**	Grid
Well:	#704H	**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
4,497.0	0.00	0.00	4,497.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.03	254.97	4,500.0	0.0	0.0	0.0	1.00	1.00	0.00
4,600.0	1.03	254.97	4,600.0	-0.2	-0.9	-0.2	1.00	1.00	0.00
4,700.0	2.03	254.97	4,700.0	-0.9	-3.5	-0.7	1.00	1.00	0.00
4,800.0	3.03	254.97	4,799.9	-2.1	-7.7	-1.5	1.00	1.00	0.00
4,853.9	3.57	254.97	4,853.6	-2.9	-10.7	-2.1	1.00	1.00	0.00
4,900.0	3.57	254.97	4,899.7	-3.6	-13.5	-2.7	0.00	0.00	0.00
5,000.0	3.57	254.97	4,999.5	-5.2	-19.5	-3.9	0.00	0.00	0.00
5,100.0	3.57	254.97	5,099.3	-6.9	-25.5	-5.1	0.00	0.00	0.00

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Site:	Ophelia 27	**North Reference:**	Grid
Well:	#704H	**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)
5,200.0	3.57	254.97	5,199.1	-8.5	-31.5	-6.3	0.00	0.00	0.00
5,300.0	3.57	254.97	5,298.9	-10.1	-37.5	-7.5	0.00	0.00	0.00
5,400.0	3.57	254.97	5,398.7	-11.7	-43.6	-8.7	0.00	0.00	0.00
5,500.0	3.57	254.97	5,498.5	-13.3	-49.6	-9.8	0.00	0.00	0.00
5,600.0	3.57	254.97	5,598.3	-14.9	-55.6	-11.0	0.00	0.00	0.00
5,700.0	3.57	254.97	5,698.1	-16.5	-61.6	-12.2	0.00	0.00	0.00
5,800.0	3.57	254.97	5,797.9	-18.2	-67.6	-13.4	0.00	0.00	0.00
5,900.0	3.57	254.97	5,897.7	-19.8	-73.6	-14.6	0.00	0.00	0.00
6,000.0	3.57	254.97	5,997.5	-21.4	-79.6	-15.8	0.00	0.00	0.00
6,100.0	3.57	254.97	6,097.4	-23.0	-85.6	-17.0	0.00	0.00	0.00
6,200.0	3.57	254.97	6,197.2	-24.6	-91.7	-18.2	0.00	0.00	0.00
6,300.0	3.57	254.97	6,297.0	-26.2	-97.7	-19.4	0.00	0.00	0.00
6,400.0	3.57	254.97	6,396.8	-27.8	-103.7	-20.6	0.00	0.00	0.00
6,500.0	3.57	254.97	6,496.6	-29.5	-109.7	-21.8	0.00	0.00	0.00
6,600.0	3.57	254.97	6,596.4	-31.1	-115.7	-23.0	0.00	0.00	0.00
6,700.0	3.57	254.97	6,696.2	-32.7	-121.7	-24.2	0.00	0.00	0.00
6,800.0	3.57	254.97	6,796.0	-34.3	-127.7	-25.4	0.00	0.00	0.00
6,900.0	3.57	254.97	6,895.8	-35.9	-133.7	-26.6	0.00	0.00	0.00
7,000.0	3.57	254.97	6,995.6	-37.5	-139.7	-27.8	0.00	0.00	0.00
7,100.0	3.57	254.97	7,095.4	-39.1	-145.8	-29.0	0.00	0.00	0.00
7,200.0	3.57	254.97	7,195.2	-40.8	-151.8	-30.2	0.00	0.00	0.00
7,300.0	3.57	254.97	7,295.0	-42.4	-157.8	-31.3	0.00	0.00	0.00
7,400.0	3.57	254.97	7,394.8	-44.0	-163.8	-32.5	0.00	0.00	0.00
7,500.0	3.57	254.97	7,494.6	-45.6	-169.8	-33.7	0.00	0.00	0.00
7,600.0	3.57	254.97	7,594.4	-47.2	-175.8	-34.9	0.00	0.00	0.00
7,700.0	3.57	254.97	7,694.3	-48.8	-181.8	-36.1	0.00	0.00	0.00
7,800.0	3.57	254.97	7,794.1	-50.4	-187.8	-37.3	0.00	0.00	0.00
7,900.0	3.57	254.97	7,893.9	-52.1	-193.8	-38.5	0.00	0.00	0.00
8,000.0	3.57	254.97	7,993.7	-53.7	-199.9	-39.7	0.00	0.00	0.00
8,100.0	3.57	254.97	8,093.5	-55.3	-205.9	-40.9	0.00	0.00	0.00
8,200.0	3.57	254.97	8,193.3	-56.9	-211.9	-42.1	0.00	0.00	0.00
8,300.0	3.57	254.97	8,293.1	-58.5	-217.9	-43.3	0.00	0.00	0.00
8,400.0	3.57	254.97	8,392.9	-60.1	-223.9	-44.5	0.00	0.00	0.00
8,500.0	3.57	254.97	8,492.7	-61.7	-229.9	-45.7	0.00	0.00	0.00
8,600.0	3.57	254.97	8,592.5	-63.4	-235.9	-46.9	0.00	0.00	0.00
8,700.0	3.57	254.97	8,692.3	-65.0	-241.9	-48.1	0.00	0.00	0.00
8,800.0	3.57	254.97	8,792.1	-66.6	-248.0	-49.3	0.00	0.00	0.00
8,900.0	3.57	254.97	8,891.9	-68.2	-254.0	-50.5	0.00	0.00	0.00
9,000.0	3.57	254.97	8,991.7	-69.8	-260.0	-51.6	0.00	0.00	0.00
9,100.0	3.57	254.97	9,091.5	-71.4	-266.0	-52.8	0.00	0.00	0.00
9,200.0	3.57	254.97	9,191.3	-73.1	-272.0	-54.0	0.00	0.00	0.00
9,300.0	3.57	254.97	9,291.1	-74.7	-278.0	-55.2	0.00	0.00	0.00
9,400.0	3.57	254.97	9,391.0	-76.3	-284.0	-56.4	0.00	0.00	0.00
9,500.0	3.57	254.97	9,490.8	-77.9	-290.0	-57.6	0.00	0.00	0.00
9,600.0	3.57	254.97	9,590.6	-79.5	-296.0	-58.8	0.00	0.00	0.00
9,700.0	3.57	254.97	9,690.4	-81.1	-302.1	-60.0	0.00	0.00	0.00
9,800.0	3.57	254.97	9,790.2	-82.7	-308.1	-61.2	0.00	0.00	0.00
9,900.0	3.57	254.97	9,890.0	-84.4	-314.1	-62.4	0.00	0.00	0.00
10,000.0	3.57	254.97	9,989.8	-86.0	-320.1	-63.6	0.00	0.00	0.00
10,100.0	3.57	254.97	10,089.6	-87.6	-326.1	-64.8	0.00	0.00	0.00
10,200.0	3.57	254.97	10,189.4	-89.2	-332.1	-66.0	0.00	0.00	0.00
10,300.0	3.57	254.97	10,289.2	-90.8	-338.1	-67.2	0.00	0.00	0.00
10,400.0	3.57	254.97	10,389.0	-92.4	-344.1	-68.4	0.00	0.00	0.00
10,500.0	3.57	254.97	10,488.8	-94.0	-350.1	-69.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #704H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3287.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3287.0usft
Site:	Ophelia 27	**North Reference:**	Grid
Well:	#704H	**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)
10,600.0	3.57	254.97	10,588.6	-95.7	-356.2	-70.8	0.00	0.00	0.00
10,700.0	3.57	254.97	10,688.4	-97.3	-362.2	-72.0	0.00	0.00	0.00
10,800.0	3.57	254.97	10,788.2	-98.9	-368.2	-73.1	0.00	0.00	0.00
10,900.0	3.57	254.97	10,888.0	-100.5	-374.2	-74.3	0.00	0.00	0.00
11,000.0	3.57	254.97	10,987.9	-102.1	-380.2	-75.5	0.00	0.00	0.00
11,100.0	3.57	254.97	11,087.7	-103.7	-386.2	-76.7	0.00	0.00	0.00
11,200.0	3.57	254.97	11,187.5	-105.3	-392.2	-77.9	0.00	0.00	0.00
11,300.0	3.57	254.97	11,287.3	-107.0	-398.2	-79.1	0.00	0.00	0.00
11,400.0	3.57	254.97	11,387.1	-108.6	-404.3	-80.3	0.00	0.00	0.00
11,500.0	3.57	254.97	11,486.9	-110.2	-410.3	-81.5	0.00	0.00	0.00
11,600.0	3.57	254.97	11,586.7	-111.8	-416.3	-82.7	0.00	0.00	0.00
11,700.0	3.57	254.97	11,686.5	-113.4	-422.3	-83.9	0.00	0.00	0.00
11,800.0	3.57	254.97	11,786.3	-115.0	-428.3	-85.1	0.00	0.00	0.00
11,900.0	3.57	254.97	11,886.1	-116.6	-434.3	-86.3	0.00	0.00	0.00
11,985.0	3.57	254.97	11,970.9	-118.0	-439.4	-87.3	0.00	0.00	0.00
12,000.0	3.57	284.26	11,985.9	-118.0	-440.3	-87.2	12.00	0.00	194.88
12,025.0	5.21	318.16	12,010.8	-117.0	-441.8	-86.1	12.00	6.56	135.58
12,050.0	7.71	333.15	12,035.7	-114.6	-443.3	-83.7	12.00	10.02	59.95
12,075.0	10.48	340.56	12,060.4	-111.0	-444.9	-79.9	12.00	11.07	29.66
12,100.0	13.35	344.87	12,084.8	-106.1	-446.4	-74.9	12.00	11.47	17.22
12,125.0	16.26	347.66	12,109.0	-99.9	-447.9	-68.6	12.00	11.66	11.18
12,150.0	19.20	349.62	12,132.8	-92.4	-449.4	-61.0	12.00	11.76	7.84
12,175.0	22.16	351.08	12,156.2	-83.7	-450.8	-52.3	12.00	11.82	5.82
12,200.0	25.13	352.21	12,179.1	-73.8	-452.3	-42.3	12.00	11.86	4.51
12,225.0	28.10	353.11	12,201.4	-62.7	-453.7	-31.1	12.00	11.89	3.61
12,250.0	31.08	353.85	12,223.2	-50.4	-455.1	-18.8	12.00	11.91	2.97
12,275.0	34.06	354.48	12,244.2	-37.0	-456.5	-5.3	12.00	11.92	2.50
12,300.0	37.04	355.01	12,264.6	-22.5	-457.8	9.2	12.00	11.94	2.14
12,325.0	40.03	355.48	12,284.1	-7.0	-459.1	24.8	12.00	11.94	1.86
12,350.0	43.01	355.89	12,302.9	9.5	-460.3	41.4	12.00	11.95	1.65
12,375.0	46.00	356.26	12,320.7	27.0	-461.5	58.9	12.00	11.96	1.47
12,400.0	48.99	356.59	12,337.6	45.4	-462.7	77.3	12.00	11.96	1.33
12,425.0	51.98	356.90	12,353.5	64.6	-463.8	96.6	12.00	11.96	1.22
12,450.0	54.98	357.18	12,368.3	84.7	-464.8	116.7	12.00	11.97	1.12
12,475.0	57.97	357.44	12,382.2	105.5	-465.8	137.5	12.00	11.97	1.04
12,500.0	60.96	357.68	12,394.9	127.0	-466.7	159.0	12.00	11.97	0.97
12,525.0	63.95	357.91	12,406.4	149.2	-467.6	181.2	12.00	11.97	0.92
12,550.0	66.95	358.13	12,416.8	171.9	-468.3	203.9	12.00	11.97	0.87
FTP(Ophelia 27 #704H)									
12,575.0	69.94	358.34	12,426.0	195.1	-469.1	227.1	12.00	11.97	0.84
12,600.0	72.94	358.54	12,433.9	218.8	-469.7	250.8	12.00	11.98	0.80
12,625.0	75.93	358.73	12,440.6	242.9	-470.3	274.9	12.00	11.98	0.78
12,650.0	78.92	358.92	12,446.1	267.3	-470.8	299.2	12.00	11.98	0.76
12,675.0	81.92	359.11	12,450.2	291.9	-471.2	323.9	12.00	11.98	0.74
12,700.0	84.91	359.29	12,453.1	316.8	-471.6	348.7	12.00	11.98	0.73
12,725.0	87.91	359.47	12,454.7	341.7	-471.8	373.6	12.00	11.98	0.73
12,742.5	90.00	359.60	12,455.0	359.2	-472.0	391.0	12.00	11.98	0.72
12,800.0	90.00	359.60	12,455.0	416.7	-472.4	448.4	0.00	0.00	0.00
12,900.0	90.00	359.60	12,455.0	516.7	-473.1	548.2	0.00	0.00	0.00
13,000.0	90.00	359.60	12,455.0	616.7	-473.8	648.0	0.00	0.00	0.00
13,100.0	90.00	359.60	12,455.0	716.7	-474.5	747.8	0.00	0.00	0.00
13,200.0	90.00	359.60	12,455.0	816.7	-475.2	847.6	0.00	0.00	0.00
13,300.0	90.00	359.60	12,455.0	916.7	-475.9	947.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #704H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3287.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3287.0usft
Site:	Ophelia 27	**North Reference:**	Grid
Well:	#704H	**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	12,455.0	1,016.7	-476.6	1,047.2	0.00	0.00	0.00
13,500.0	90.00	359.60	12,455.0	1,116.7	-477.3	1,147.1	0.00	0.00	0.00
13,600.0	90.00	359.60	12,455.0	1,216.7	-478.0	1,246.9	0.00	0.00	0.00
13,700.0	90.00	359.60	12,455.0	1,316.7	-478.7	1,346.7	0.00	0.00	0.00
13,800.0	90.00	359.60	12,455.0	1,416.7	-479.4	1,446.5	0.00	0.00	0.00
13,900.0	90.00	359.60	12,455.0	1,516.7	-480.1	1,546.3	0.00	0.00	0.00
14,000.0	90.00	359.60	12,455.0	1,616.7	-480.8	1,646.1	0.00	0.00	0.00
14,100.0	90.00	359.60	12,455.0	1,716.7	-481.5	1,745.9	0.00	0.00	0.00
14,200.0	90.00	359.60	12,455.0	1,816.7	-482.1	1,845.7	0.00	0.00	0.00
14,300.0	90.00	359.60	12,455.0	1,916.7	-482.8	1,945.5	0.00	0.00	0.00
14,400.0	90.00	359.60	12,455.0	2,016.7	-483.5	2,045.3	0.00	0.00	0.00
14,500.0	90.00	359.60	12,455.0	2,116.7	-484.2	2,145.1	0.00	0.00	0.00
14,600.0	90.00	359.60	12,455.0	2,216.7	-484.9	2,244.9	0.00	0.00	0.00
14,700.0	90.00	359.60	12,455.0	2,316.7	-485.6	2,344.7	0.00	0.00	0.00
14,800.0	90.00	359.60	12,455.0	2,416.6	-486.3	2,444.5	0.00	0.00	0.00
14,900.0	90.00	359.60	12,455.0	2,516.6	-487.0	2,544.3	0.00	0.00	0.00
15,000.0	90.00	359.60	12,455.0	2,616.6	-487.7	2,644.1	0.00	0.00	0.00
15,100.0	90.00	359.60	12,455.0	2,716.6	-488.4	2,743.9	0.00	0.00	0.00
15,200.0	90.00	359.60	12,455.0	2,816.6	-489.1	2,843.8	0.00	0.00	0.00
15,300.0	90.00	359.60	12,455.0	2,916.6	-489.8	2,943.6	0.00	0.00	0.00
15,400.0	90.00	359.60	12,455.0	3,016.6	-490.5	3,043.4	0.00	0.00	0.00
15,500.0	90.00	359.60	12,455.0	3,116.6	-491.2	3,143.2	0.00	0.00	0.00
15,600.0	90.00	359.60	12,455.0	3,216.6	-491.9	3,243.0	0.00	0.00	0.00
15,700.0	90.00	359.60	12,455.0	3,316.6	-492.6	3,342.8	0.00	0.00	0.00
15,800.0	90.00	359.60	12,455.0	3,416.6	-493.3	3,442.6	0.00	0.00	0.00
15,900.0	90.00	359.60	12,455.0	3,516.6	-494.0	3,542.4	0.00	0.00	0.00
16,000.0	90.00	359.60	12,455.0	3,616.6	-494.7	3,642.2	0.00	0.00	0.00
16,100.0	90.00	359.60	12,455.0	3,716.6	-495.4	3,742.0	0.00	0.00	0.00
16,200.0	90.00	359.60	12,455.0	3,816.6	-496.1	3,841.8	0.00	0.00	0.00
16,300.0	90.00	359.60	12,455.0	3,916.6	-496.8	3,941.6	0.00	0.00	0.00
16,400.0	90.00	359.60	12,455.0	4,016.6	-497.5	4,041.4	0.00	0.00	0.00
16,500.0	90.00	359.60	12,455.0	4,116.6	-498.2	4,141.2	0.00	0.00	0.00
16,600.0	90.00	359.60	12,455.0	4,216.6	-498.9	4,241.0	0.00	0.00	0.00
16,700.0	90.00	359.60	12,455.0	4,316.6	-499.6	4,340.8	0.00	0.00	0.00
16,800.0	90.00	359.60	12,455.0	4,416.6	-500.3	4,440.6	0.00	0.00	0.00
16,900.0	90.00	359.60	12,455.0	4,516.6	-501.0	4,540.5	0.00	0.00	0.00
17,000.0	90.00	359.60	12,455.0	4,616.6	-501.7	4,640.3	0.00	0.00	0.00
17,100.0	90.00	359.60	12,455.0	4,716.6	-502.4	4,740.1	0.00	0.00	0.00
17,200.0	90.00	359.60	12,455.0	4,816.6	-503.1	4,839.9	0.00	0.00	0.00
17,300.0	90.00	359.60	12,455.0	4,916.6	-503.8	4,939.7	0.00	0.00	0.00
17,400.0	90.00	359.60	12,455.0	5,016.6	-504.5	5,039.5	0.00	0.00	0.00
17,500.0	90.00	359.60	12,455.0	5,116.6	-505.2	5,139.3	0.00	0.00	0.00
17,600.0	90.00	359.60	12,455.0	5,216.6	-505.9	5,239.1	0.00	0.00	0.00
17,700.0	90.00	359.60	12,455.0	5,316.6	-506.6	5,338.9	0.00	0.00	0.00
17,800.0	90.00	359.60	12,455.0	5,416.6	-507.3	5,438.7	0.00	0.00	0.00
17,900.0	90.00	359.60	12,455.0	5,516.6	-508.0	5,538.5	0.00	0.00	0.00
18,000.0	90.00	359.60	12,455.0	5,616.6	-508.7	5,638.3	0.00	0.00	0.00
18,100.0	90.00	359.60	12,455.0	5,716.6	-509.4	5,738.1	0.00	0.00	0.00
18,200.0	90.00	359.60	12,455.0	5,816.6	-510.1	5,837.9	0.00	0.00	0.00
18,300.0	90.00	359.60	12,455.0	5,916.6	-510.8	5,937.7	0.00	0.00	0.00
18,400.0	90.00	359.60	12,455.0	6,016.6	-511.5	6,037.5	0.00	0.00	0.00
18,500.0	90.00	359.60	12,455.0	6,116.6	-512.2	6,137.3	0.00	0.00	0.00
18,600.0	90.00	359.60	12,455.0	6,216.6	-512.9	6,237.2	0.00	0.00	0.00
18,700.0	90.00	359.60	12,455.0	6,316.6	-513.6	6,337.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #704H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3287.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3287.0usft
Site:	Ophelia 27	**North Reference:**	Grid
Well:	#704H	**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	12,455.0	6,416.6	-514.3	6,436.8	0.00	0.00	0.00
18,900.0	90.00	359.60	12,455.0	6,516.5	-515.0	6,536.6	0.00	0.00	0.00
19,000.0	90.00	359.60	12,455.0	6,616.5	-515.7	6,636.4	0.00	0.00	0.00
19,100.0	90.00	359.60	12,455.0	6,716.5	-516.4	6,736.2	0.00	0.00	0.00
19,200.0	90.00	359.60	12,455.0	6,816.5	-517.1	6,836.0	0.00	0.00	0.00
19,300.0	90.00	359.60	12,455.0	6,916.5	-517.8	6,935.8	0.00	0.00	0.00
19,400.0	90.00	359.60	12,455.0	7,016.5	-518.5	7,035.6	0.00	0.00	0.00
19,500.0	90.00	359.60	12,455.0	7,116.5	-519.2	7,135.4	0.00	0.00	0.00
19,600.0	90.00	359.60	12,455.0	7,216.5	-519.9	7,235.2	0.00	0.00	0.00
19,700.0	90.00	359.60	12,455.0	7,316.5	-520.6	7,335.0	0.00	0.00	0.00
19,800.0	90.00	359.60	12,455.0	7,416.5	-521.3	7,434.8	0.00	0.00	0.00
19,902.5	90.00	359.60	12,455.0	7,519.0	-522.0	7,537.1	0.00	0.00	0.00
PBHL(Ophelia 27 #704H)									

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(Ophelia 27 #704H)	0.00	0.01	12,455.0	156.0	-471.0	370,107.00	737,465.00	32° 0' 54.807 N	103° 34' 1.875 W
- plan misses target center by 41.5usft at 12550.0usft MD (12416.8 TVD, 171.9 N, -468.3 E)									
- Point									
PBHL(Ophelia 27 #704H	0.00	0.00	12,455.0	7,519.0	-522.0	377,470.00	737,414.00	32° 2' 7.674 N	103° 34' 1.861 W
- plan hits target center									
- Point									