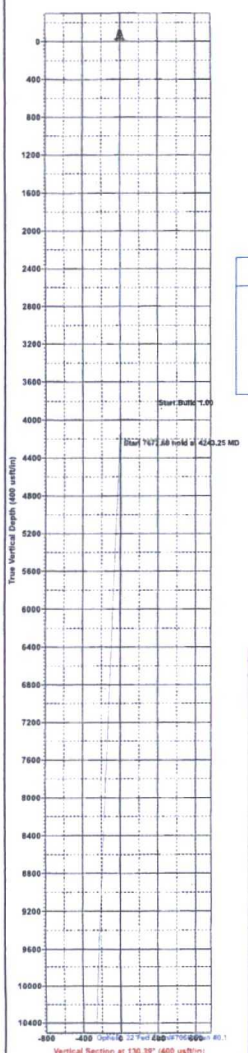
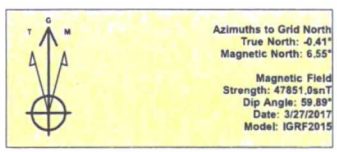
eog resources

Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com #706H

Plan #0.1





Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.55°

Magnetic Field
Strength: 47851.0snT
Dip Angle: 59.89°
Date: 3/27/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.55°
To convert a Magnetic Direction to a True Direction, Add 6.96° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

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

Ground Level: 3302.00
KB = 25' @ 3327.00usft

Northing	Easting	Latitude	Longitude
[illegible]	780238.00	32.03566506	-103.56236856

SECTION DETAILS

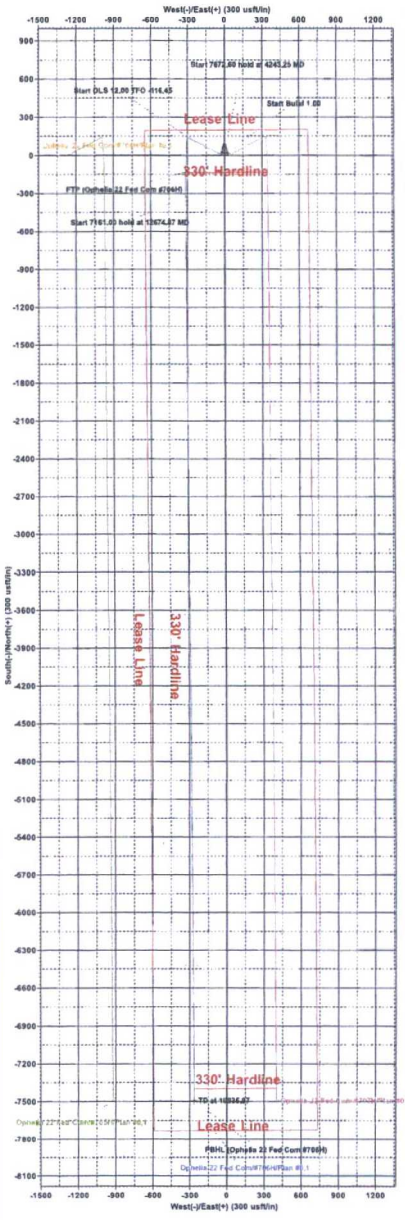
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4243.25	2.43	296.06	4243.17	2.27	-4.64	1.00	296.06	-2.11	
4	11915.84	2.43	296.06	11908.85	145.32	-297.17	0.00	0.00	-134.88	
5	12674.87	90.00	179.59	12395.00	-332.18	-312.24	12.00	-116.45	342.85	
6	19835.87	90.00	179.59	12395.00	-7493.00	-261.00	0.00	0.00	7497.54	PBHL (Ophelia 22 Fed Com #706H)

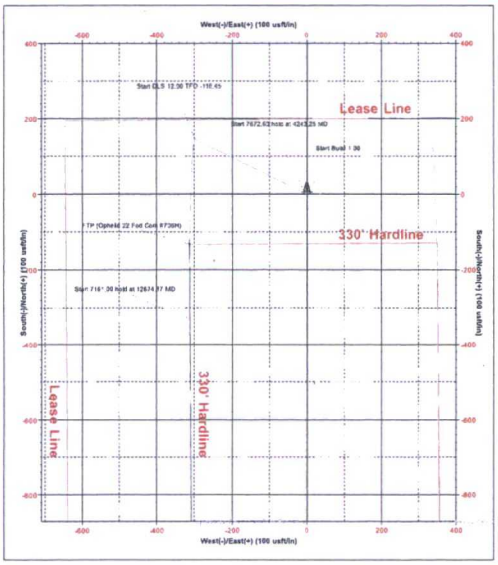
CASING DETAILS

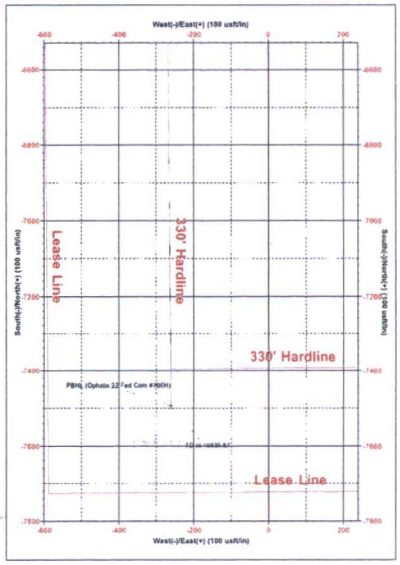
No casing data is available

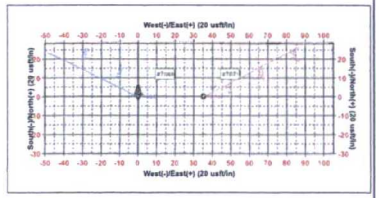
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

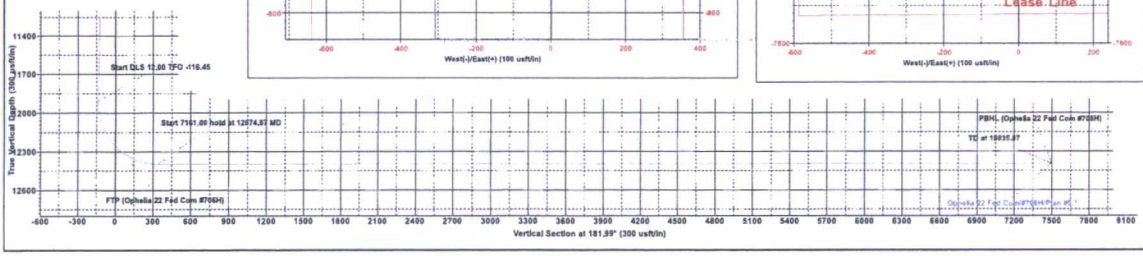
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Ophelia 22 Fed Com #706H)	12395.00	-132.00	-313.00	377434.00	779925.00
PBHL (Ophelia 22 Fed Com #706H)	12395.00	-7493.00	-261.00	370073.00	779977.00

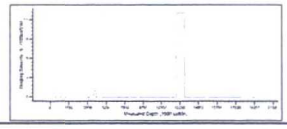












EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Ophelia 22 Fed Com
#706H

OH

Plan: Plan #0.1

Standard Planning Report

28 March, 2017

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #706H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3327.00usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3327.00usft
Site:	Ophelia 22 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	Ophelia 22 Fed Com				
Site Position:		**Northing:**	377,559.00 usft	**Latitude:**	32.03567171
From:	Map	**Easting:**	778,915.00 usft	**Longitude:**	-103.56663789
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.41 °

Well	#706H					
Well Position	**+N/-S**	7.00 usft	**Northing:**	377,566.00 usft	**Latitude:**	32.03566506
	+E/-W	1,323.00 usft	**Easting:**	780,238.00 usft	**Longitude:**	-103.56236856
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,302.00 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	3/27/2017	6.96	59.89	47,851

Design Plan #0.1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.00	0.00	0.00	181.99

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,243.25	2.43	296.06	4,243.17	2.27	-4.64	1.00	1.00	0.00	296.06	
11,915.84	2.43	296.06	11,908.85	145.32	-297.17	0.00	0.00	0.00	0.00	
12,674.87	90.00	179.59	12,395.00	-332.18	-312.24	12.00	11.54	-15.34	-116.45	
19,835.87	90.00	179.59	12,395.00	-7,493.00	-261.00	0.00	0.00	0.00	0.00	PBHL (Ophelia 22 Fe

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #706H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3327.00usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3327.00usft
Site:	Ophelia 22 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	1.00	296.06	4,100.00	0.38	-0.78	-0.36	1.00	1.00	0.00
4,200.00	2.00	296.06	4,199.96	1.53	-3.14	-1.42	1.00	1.00	0.00
4,243.25	2.43	296.06	4,243.17	2.27	-4.64	-2.11	1.00	1.00	0.00
4,300.00	2.43	296.06	4,299.88	3.33	-6.80	-3.09	0.00	0.00	0.00
4,400.00	2.43	296.06	4,399.79	5.19	-10.61	-4.82	0.00	0.00	0.00
4,500.00	2.43	296.06	4,499.70	7.05	-14.43	-6.55	0.00	0.00	0.00
4,600.00	2.43	296.06	4,599.61	8.92	-18.24	-8.28	0.00	0.00	0.00
4,700.00	2.43	296.06	4,699.52	10.78	-22.05	-10.01	0.00	0.00	0.00
4,800.00	2.43	296.06	4,799.43	12.65	-25.87	-11.74	0.00	0.00	0.00
4,900.00	2.43	296.06	4,899.34	14.51	-29.68	-13.47	0.00	0.00	0.00
5,000.00	2.43	296.06	4,999.25	16.38	-33.49	-15.20	0.00	0.00	0.00
5,100.00	2.43	296.06	5,099.16	18.24	-37.30	-16.93	0.00	0.00	0.00
5,200.00	2.43	296.06	5,199.06	20.11	-41.12	-18.66	0.00	0.00	0.00

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Site:	Ophelia 22 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
5,300.00	2.43	296.06	5,298.97	21.97	-44.93	-20.39	0.00	0.00	0.00
5,400.00	2.43	296.06	5,398.88	23.83	-48.74	-22.12	0.00	0.00	0.00
5,500.00	2.43	296.06	5,498.79	25.70	-52.55	-23.85	0.00	0.00	0.00
5,600.00	2.43	296.06	5,598.70	27.56	-56.37	-25.58	0.00	0.00	0.00
5,700.00	2.43	296.06	5,698.61	29.43	-60.18	-27.31	0.00	0.00	0.00
5,800.00	2.43	296.06	5,798.52	31.29	-63.99	-29.05	0.00	0.00	0.00
5,900.00	2.43	296.06	5,898.43	33.16	-67.81	-30.78	0.00	0.00	0.00
6,000.00	2.43	296.06	5,998.34	35.02	-71.62	-32.51	0.00	0.00	0.00
6,100.00	2.43	296.06	6,098.25	36.89	-75.43	-34.24	0.00	0.00	0.00
6,200.00	2.43	296.06	6,198.16	38.75	-79.24	-35.97	0.00	0.00	0.00
6,300.00	2.43	296.06	6,298.07	40.61	-83.06	-37.70	0.00	0.00	0.00
6,400.00	2.43	296.06	6,397.98	42.48	-86.87	-39.43	0.00	0.00	0.00
6,500.00	2.43	296.06	6,497.89	44.34	-90.68	-41.16	0.00	0.00	0.00
6,600.00	2.43	296.06	6,597.80	46.21	-94.49	-42.89	0.00	0.00	0.00
6,700.00	2.43	296.06	6,697.71	48.07	-98.31	-44.62	0.00	0.00	0.00
6,800.00	2.43	296.06	6,797.62	49.94	-102.12	-46.35	0.00	0.00	0.00
6,900.00	2.43	296.06	6,897.53	51.80	-105.93	-48.08	0.00	0.00	0.00
7,000.00	2.43	296.06	6,997.44	53.66	-109.75	-49.81	0.00	0.00	0.00
7,100.00	2.43	296.06	7,097.35	55.53	-113.56	-51.54	0.00	0.00	0.00
7,200.00	2.43	296.06	7,197.26	57.39	-117.37	-53.27	0.00	0.00	0.00
7,300.00	2.43	296.06	7,297.17	59.26	-121.18	-55.00	0.00	0.00	0.00
7,400.00	2.43	296.06	7,397.08	61.12	-125.00	-56.73	0.00	0.00	0.00
7,500.00	2.43	296.06	7,496.99	62.99	-128.81	-58.46	0.00	0.00	0.00
7,600.00	2.43	296.06	7,596.90	64.85	-132.62	-60.20	0.00	0.00	0.00
7,700.00	2.43	296.06	7,696.81	66.72	-136.43	-61.93	0.00	0.00	0.00
7,800.00	2.43	296.06	7,796.72	68.58	-140.25	-63.66	0.00	0.00	0.00
7,900.00	2.43	296.06	7,896.63	70.44	-144.06	-65.39	0.00	0.00	0.00
8,000.00	2.43	296.06	7,996.54	72.31	-147.87	-67.12	0.00	0.00	0.00
8,100.00	2.43	296.06	8,096.45	74.17	-151.69	-68.85	0.00	0.00	0.00
8,200.00	2.43	296.06	8,196.36	76.04	-155.50	-70.58	0.00	0.00	0.00
8,300.00	2.43	296.06	8,296.27	77.90	-159.31	-72.31	0.00	0.00	0.00
8,400.00	2.43	296.06	8,396.18	79.77	-163.12	-74.04	0.00	0.00	0.00
8,500.00	2.43	296.06	8,496.09	81.63	-166.94	-75.77	0.00	0.00	0.00
8,600.00	2.43	296.06	8,596.00	83.50	-170.75	-77.50	0.00	0.00	0.00
8,700.00	2.43	296.06	8,695.91	85.36	-174.56	-79.23	0.00	0.00	0.00
8,800.00	2.43	296.06	8,795.82	87.22	-178.37	-80.96	0.00	0.00	0.00
8,900.00	2.43	296.06	8,895.73	89.09	-182.19	-82.69	0.00	0.00	0.00
9,000.00	2.43	296.06	8,995.64	90.95	-186.00	-84.42	0.00	0.00	0.00
9,100.00	2.43	296.06	9,095.55	92.82	-189.81	-86.15	0.00	0.00	0.00
9,200.00	2.43	296.06	9,195.46	94.68	-193.63	-87.88	0.00	0.00	0.00
9,300.00	2.43	296.06	9,295.37	96.55	-197.44	-89.61	0.00	0.00	0.00
9,400.00	2.43	296.06	9,395.28	98.41	-201.25	-91.35	0.00	0.00	0.00
9,500.00	2.43	296.06	9,495.19	100.28	-205.06	-93.08	0.00	0.00	0.00
9,600.00	2.43	296.06	9,595.10	102.14	-208.88	-94.81	0.00	0.00	0.00
9,700.00	2.43	296.06	9,695.01	104.00	-212.69	-96.54	0.00	0.00	0.00
9,800.00	2.43	296.06	9,794.92	105.87	-216.50	-98.27	0.00	0.00	0.00
9,900.00	2.43	296.06	9,894.83	107.73	-220.31	-100.00	0.00	0.00	0.00
10,000.00	2.43	296.06	9,994.74	109.60	-224.13	-101.73	0.00	0.00	0.00
10,100.00	2.43	296.06	10,094.65	111.46	-227.94	-103.46	0.00	0.00	0.00
10,200.00	2.43	296.06	10,194.56	113.33	-231.75	-105.19	0.00	0.00	0.00
10,300.00	2.43	296.06	10,294.47	115.19	-235.56	-106.92	0.00	0.00	0.00
10,400.00	2.43	296.06	10,394.38	117.05	-239.38	-108.65	0.00	0.00	0.00
10,500.00	2.43	296.06	10,494.29	118.92	-243.19	-110.38	0.00	0.00	0.00
10,600.00	2.43	296.06	10,594.20	120.78	-247.00	-112.11	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' @ 3327.00usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3327.00usft
Site:	Ophelia 22 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
10,700.00	2.43	296.06	10,694.11	122.65	-250.82	-113.84	0.00	0.00	0.00
10,800.00	2.43	296.06	10,794.02	124.51	-254.63	-115.57	0.00	0.00	0.00
10,900.00	2.43	296.06	10,893.93	126.38	-258.44	-117.30	0.00	0.00	0.00
11,000.00	2.43	296.06	10,993.84	128.24	-262.25	-119.03	0.00	0.00	0.00
11,100.00	2.43	296.06	11,093.75	130.11	-266.07	-120.76	0.00	0.00	0.00
11,200.00	2.43	296.06	11,193.66	131.97	-269.88	-122.50	0.00	0.00	0.00
11,300.00	2.43	296.06	11,293.57	133.83	-273.69	-124.23	0.00	0.00	0.00
11,400.00	2.43	296.06	11,393.48	135.70	-277.50	-125.96	0.00	0.00	0.00
11,500.00	2.43	296.06	11,493.39	137.56	-281.32	-127.69	0.00	0.00	0.00
11,600.00	2.43	296.06	11,593.30	139.43	-285.13	-129.42	0.00	0.00	0.00
11,700.00	2.43	296.06	11,693.21	141.29	-288.94	-131.15	0.00	0.00	0.00
11,800.00	2.43	296.06	11,793.12	143.16	-292.76	-132.88	0.00	0.00	0.00
11,900.00	2.43	296.06	11,893.03	145.02	-296.57	-134.61	0.00	0.00	0.00
11,915.84	2.43	296.06	11,908.85	145.32	-297.17	-134.88	0.00	0.00	0.00
11,925.00	2.18	269.19	11,918.01	145.40	-297.52	-134.95	12.00	-2.78	-293.35
11,950.00	3.72	215.40	11,942.98	144.73	-298.47	-134.25	12.00	6.16	-215.17
11,975.00	6.40	199.42	11,967.88	142.76	-299.40	-132.25	12.00	10.71	-63.91
12,000.00	9.27	193.06	11,992.64	139.48	-300.32	-128.94	12.00	11.51	-25.45
12,025.00	12.21	189.71	12,017.20	134.91	-301.22	-124.34	12.00	11.74	-13.38
12,050.00	15.17	187.65	12,041.49	129.06	-302.10	-118.47	12.00	11.84	-8.24
12,075.00	18.14	186.25	12,065.44	121.95	-302.96	-111.33	12.00	11.89	-5.59
12,100.00	21.12	185.24	12,088.98	113.60	-303.80	-102.95	12.00	11.92	-4.06
12,125.00	24.11	184.46	12,112.06	104.02	-304.60	-93.35	12.00	11.94	-3.10
12,150.00	27.10	183.85	12,134.60	93.24	-305.38	-82.56	12.00	11.95	-2.45
12,175.00	30.09	183.35	12,156.55	81.30	-306.13	-70.60	12.00	11.96	-2.00
12,200.00	33.08	182.94	12,177.84	68.23	-306.85	-57.51	12.00	11.97	-1.67
12,225.00	36.07	182.58	12,198.43	54.06	-307.53	-43.32	12.00	11.97	-1.42
12,250.00	39.07	182.28	12,218.24	38.84	-308.18	-28.08	12.00	11.98	-1.23
12,275.00	42.06	182.01	12,237.23	22.59	-308.78	-11.83	12.00	11.98	-1.08
12,300.00	45.06	181.77	12,255.34	5.38	-309.35	5.40	12.00	11.98	-0.96
12,325.00	48.05	181.55	12,272.53	-12.77	-309.87	23.55	12.00	11.98	-0.87
12,350.00	51.05	181.35	12,288.75	-31.78	-310.35	42.57	12.00	11.99	-0.79
12,375.00	54.05	181.17	12,303.95	-51.62	-310.79	62.41	12.00	11.99	-0.72
12,400.00	57.04	181.00	12,318.10	-72.23	-311.18	83.02	12.00	11.99	-0.67
12,425.00	60.04	180.85	12,331.14	-93.55	-311.52	104.34	12.00	11.99	-0.63
12,450.00	63.04	180.70	12,343.05	-115.52	-311.82	126.31	12.00	11.99	-0.59
12,475.00	66.03	180.56	12,353.80	-138.09	-312.06	148.87	12.00	11.99	-0.56
12,485.13	67.25	180.50	12,357.82	-147.38	-312.15	158.16	12.00	11.99	-0.54
FTP (Ophelia 22 Fed Com #706H)									
12,500.00	69.03	180.43	12,363.36	-161.19	-312.26	171.96	12.00	11.99	-0.53
12,525.00	72.03	180.30	12,371.69	-184.76	-312.41	195.52	12.00	11.99	-0.51
12,550.00	75.03	180.17	12,378.78	-208.73	-312.51	219.48	12.00	11.99	-0.50
12,575.00	78.02	180.05	12,384.60	-233.04	-312.56	243.78	12.00	11.99	-0.48
12,600.00	81.02	179.93	12,389.15	-257.62	-312.55	268.34	12.00	11.99	-0.47
12,625.00	84.02	179.82	12,392.40	-282.40	-312.50	293.11	12.00	11.99	-0.46
12,650.00	87.02	179.70	12,394.35	-307.32	-312.40	318.01	12.00	11.99	-0.46
12,674.87	90.00	179.59	12,395.00	-332.18	-312.24	342.85	12.00	11.99	-0.46
12,700.00	90.00	179.59	12,395.00	-357.31	-312.06	367.96	0.00	0.00	0.00
12,800.00	90.00	179.59	12,395.00	-457.31	-311.35	467.87	0.00	0.00	0.00
12,900.00	90.00	179.59	12,395.00	-557.30	-310.63	567.78	0.00	0.00	0.00
13,000.00	90.00	179.59	12,395.00	-657.30	-309.92	667.69	0.00	0.00	0.00
13,100.00	90.00	179.59	12,395.00	-757.30	-309.20	767.60	0.00	0.00	0.00
13,200.00	90.00	179.59	12,395.00	-857.30	-308.48	867.52	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' @ 3327.00usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3327.00usft
Site:	Ophelia 22 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
13,300.00	90.00	179.59	12,395.00	-957.29	-307.77	967.43	0.00	0.00	0.00
13,400.00	90.00	179.59	12,395.00	-1,057.29	-307.05	1,067.34	0.00	0.00	0.00
13,500.00	90.00	179.59	12,395.00	-1,157.29	-306.34	1,167.25	0.00	0.00	0.00
13,600.00	90.00	179.59	12,395.00	-1,257.29	-305.62	1,267.16	0.00	0.00	0.00
13,700.00	90.00	179.59	12,395.00	-1,357.28	-304.91	1,367.08	0.00	0.00	0.00
13,800.00	90.00	179.59	12,395.00	-1,457.28	-304.19	1,466.99	0.00	0.00	0.00
13,900.00	90.00	179.59	12,395.00	-1,557.28	-303.48	1,566.90	0.00	0.00	0.00
14,000.00	90.00	179.59	12,395.00	-1,657.28	-302.76	1,666.81	0.00	0.00	0.00
14,100.00	90.00	179.59	12,395.00	-1,757.27	-302.04	1,766.72	0.00	0.00	0.00
14,200.00	90.00	179.59	12,395.00	-1,857.27	-301.33	1,866.63	0.00	0.00	0.00
14,300.00	90.00	179.59	12,395.00	-1,957.27	-300.61	1,966.55	0.00	0.00	0.00
14,400.00	90.00	179.59	12,395.00	-2,057.27	-299.90	2,066.46	0.00	0.00	0.00
14,500.00	90.00	179.59	12,395.00	-2,157.26	-299.18	2,166.37	0.00	0.00	0.00
14,600.00	90.00	179.59	12,395.00	-2,257.26	-298.47	2,266.28	0.00	0.00	0.00
14,700.00	90.00	179.59	12,395.00	-2,357.26	-297.75	2,366.19	0.00	0.00	0.00
14,800.00	90.00	179.59	12,395.00	-2,457.26	-297.04	2,466.11	0.00	0.00	0.00
14,900.00	90.00	179.59	12,395.00	-2,557.25	-296.32	2,566.02	0.00	0.00	0.00
15,000.00	90.00	179.59	12,395.00	-2,657.25	-295.60	2,665.93	0.00	0.00	0.00
15,100.00	90.00	179.59	12,395.00	-2,757.25	-294.89	2,765.84	0.00	0.00	0.00
15,200.00	90.00	179.59	12,395.00	-2,857.25	-294.17	2,865.75	0.00	0.00	0.00
15,300.00	90.00	179.59	12,395.00	-2,957.24	-293.46	2,965.67	0.00	0.00	0.00
15,400.00	90.00	179.59	12,395.00	-3,057.24	-292.74	3,065.58	0.00	0.00	0.00
15,500.00	90.00	179.59	12,395.00	-3,157.24	-292.03	3,165.49	0.00	0.00	0.00
15,600.00	90.00	179.59	12,395.00	-3,257.23	-291.31	3,265.40	0.00	0.00	0.00
15,700.00	90.00	179.59	12,395.00	-3,357.23	-290.60	3,365.31	0.00	0.00	0.00
15,800.00	90.00	179.59	12,395.00	-3,457.23	-289.88	3,465.23	0.00	0.00	0.00
15,900.00	90.00	179.59	12,395.00	-3,557.23	-289.16	3,565.14	0.00	0.00	0.00
16,000.00	90.00	179.59	12,395.00	-3,657.22	-288.45	3,665.05	0.00	0.00	0.00
16,100.00	90.00	179.59	12,395.00	-3,757.22	-287.73	3,764.96	0.00	0.00	0.00
16,200.00	90.00	179.59	12,395.00	-3,857.22	-287.02	3,864.87	0.00	0.00	0.00
16,300.00	90.00	179.59	12,395.00	-3,957.22	-286.30	3,964.79	0.00	0.00	0.00
16,400.00	90.00	179.59	12,395.00	-4,057.21	-285.59	4,064.70	0.00	0.00	0.00
16,500.00	90.00	179.59	12,395.00	-4,157.21	-284.87	4,164.61	0.00	0.00	0.00
16,600.00	90.00	179.59	12,395.00	-4,257.21	-284.16	4,264.52	0.00	0.00	0.00
16,700.00	90.00	179.59	12,395.00	-4,357.21	-283.44	4,364.43	0.00	0.00	0.00
16,800.00	90.00	179.59	12,395.00	-4,457.20	-282.72	4,464.34	0.00	0.00	0.00
16,900.00	90.00	179.59	12,395.00	-4,557.20	-282.01	4,564.26	0.00	0.00	0.00
17,000.00	90.00	179.59	12,395.00	-4,657.20	-281.29	4,664.17	0.00	0.00	0.00
17,100.00	90.00	179.59	12,395.00	-4,757.20	-280.58	4,764.08	0.00	0.00	0.00
17,200.00	90.00	179.59	12,395.00	-4,857.19	-279.86	4,863.99	0.00	0.00	0.00
17,300.00	90.00	179.59	12,395.00	-4,957.19	-279.15	4,963.90	0.00	0.00	0.00
17,400.00	90.00	179.59	12,395.00	-5,057.19	-278.43	5,063.82	0.00	0.00	0.00
17,500.00	90.00	179.59	12,395.00	-5,157.19	-277.72	5,163.73	0.00	0.00	0.00
17,600.00	90.00	179.59	12,395.00	-5,257.18	-277.00	5,263.64	0.00	0.00	0.00
17,700.00	90.00	179.59	12,395.00	-5,357.18	-276.28	5,363.55	0.00	0.00	0.00
17,800.00	90.00	179.59	12,395.00	-5,457.18	-275.57	5,463.46	0.00	0.00	0.00
17,900.00	90.00	179.59	12,395.00	-5,557.18	-274.85	5,563.38	0.00	0.00	0.00
18,000.00	90.00	179.59	12,395.00	-5,657.17	-274.14	5,663.29	0.00	0.00	0.00
18,100.00	90.00	179.59	12,395.00	-5,757.17	-273.42	5,763.20	0.00	0.00	0.00
18,200.00	90.00	179.59	12,395.00	-5,857.17	-272.71	5,863.11	0.00	0.00	0.00
18,300.00	90.00	179.59	12,395.00	-5,957.17	-271.99	5,963.02	0.00	0.00	0.00
18,400.00	90.00	179.59	12,395.00	-6,057.16	-271.27	6,062.94	0.00	0.00	0.00
18,500.00	90.00	179.59	12,395.00	-6,157.16	-270.56	6,162.85	0.00	0.00	0.00
18,600.00	90.00	179.59	12,395.00	-6,257.16	-269.84	6,262.76	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' @ 3327.00usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3327.00usft
Site:	Ophelia 22 Fed Com	**North Reference:**	Grid
Well:	#706H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
18,700.00	90.00	179.59	12,395.00	-6,357.16	-269.13	6,362.67	0.00	0.00	0.00
18,800.00	90.00	179.59	12,395.00	-6,457.15	-268.41	6,462.58	0.00	0.00	0.00
18,900.00	90.00	179.59	12,395.00	-6,557.15	-267.70	6,562.50	0.00	0.00	0.00
19,000.00	90.00	179.59	12,395.00	-6,657.15	-266.98	6,662.41	0.00	0.00	0.00
19,100.00	90.00	179.59	12,395.00	-6,757.15	-266.27	6,762.32	0.00	0.00	0.00
19,200.00	90.00	179.59	12,395.00	-6,857.14	-265.55	6,862.23	0.00	0.00	0.00
19,300.00	90.00	179.59	12,395.00	-6,957.14	-264.83	6,962.14	0.00	0.00	0.00
19,400.00	90.00	179.59	12,395.00	-7,057.14	-264.12	7,062.05	0.00	0.00	0.00
19,500.00	90.00	179.59	12,395.00	-7,157.14	-263.40	7,161.97	0.00	0.00	0.00
19,600.00	90.00	179.59	12,395.00	-7,257.13	-262.69	7,261.88	0.00	0.00	0.00
19,700.00	90.00	179.59	12,395.00	-7,357.13	-261.97	7,361.79	0.00	0.00	0.00
19,800.00	90.00	179.59	12,395.00	-7,457.13	-261.26	7,461.70	0.00	0.00	0.00
19,835.87	90.00	179.59	12,395.00	-7,493.00	-261.00	7,497.54	0.00	0.00	0.00
PBHL (Ophelia 22 Fed Com #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
FTP (Ophelia 22 Fed Cc	0.00	0.00	12,395.00	-132.00	-313.00	377,434.00	779,925.00	32.03530837	-103.56338161
- plan misses target center by 40.25usft at 12485.13usft MD (12357.82 TVD, -147.38 N, -312.15 E)									
- Point									
PBHL (Ophelia 22 Fed C	0.00	0.00	12,395.00	-7,493.00	-261.00	370,073.00	779,977.00	32.01507384	-103.56338309
- plan hits target center									
- Point									