



Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com #707H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #707H

Ground Level: 3301.00
KB = 25' @ 3326.00usft
Northing 377566.00 Easting 780273.00 Latitude 32.03566437 Longitude -103.56225562

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	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	4243.95	2.44	62.72	4243.88	2.38	4.62	1.00	62.72	-2.15	
4	11915.73	2.44	62.72	11908.70	152.05	294.85	0.00	0.00	-137.39	
5	12674.91	90.00	179.59	12395.00	-325.18	316.74	12.00	116.85	340.34	
6	19637.91	90.00	179.59	12395.00	-7488.00	368.00	0.00	0.00	7497.04	PBHL (Ophelia 22 Fed Com #707H)

CASINO DETAILS

No casing data is available

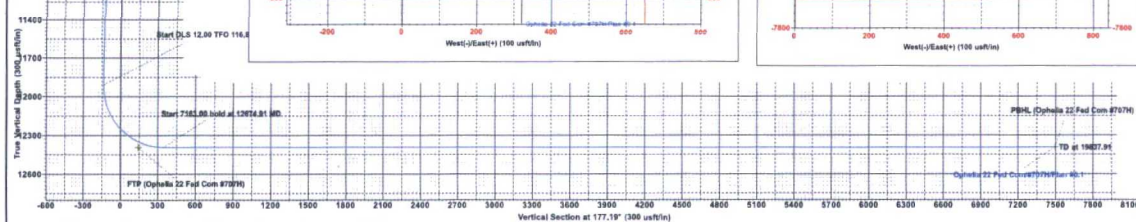
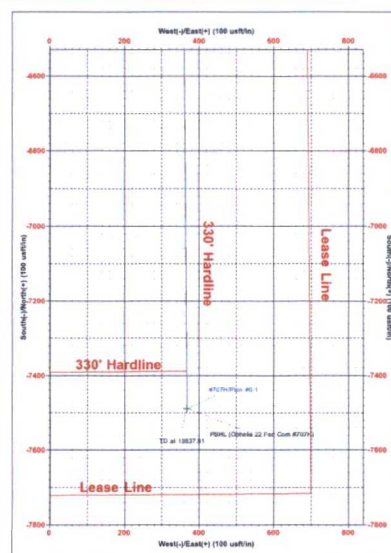
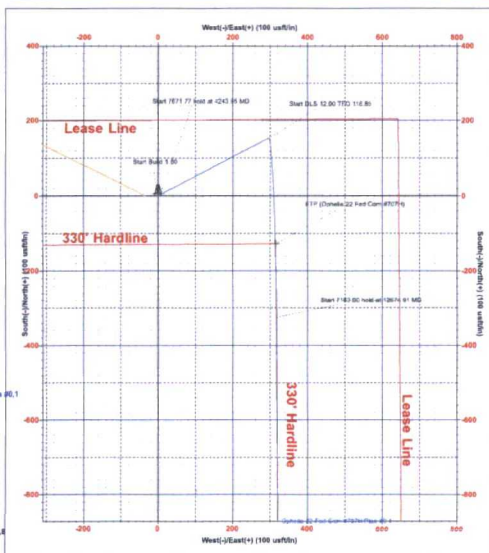
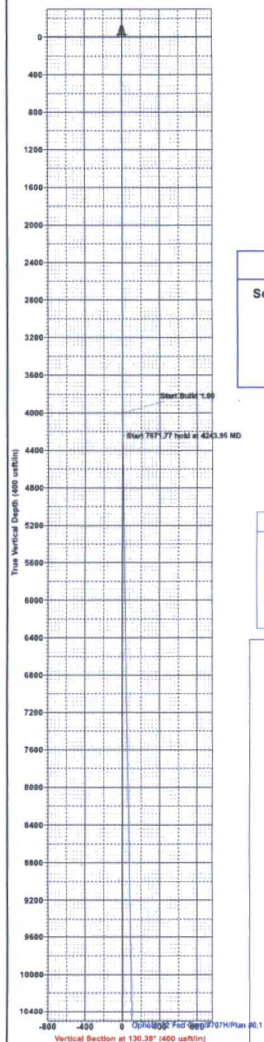
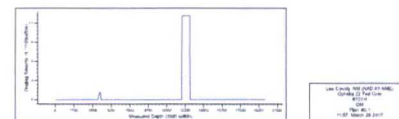
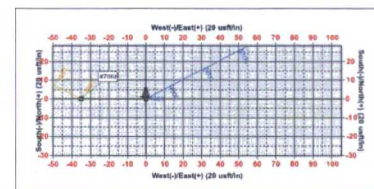
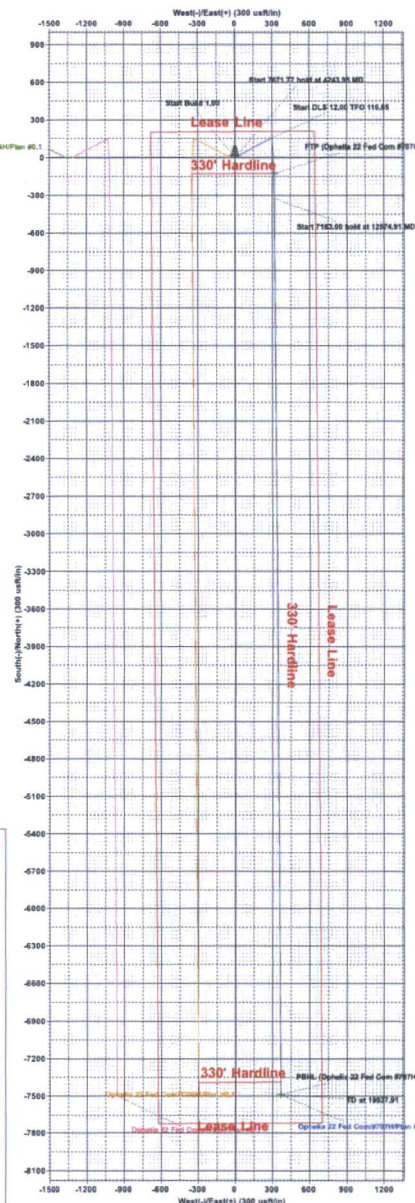
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Ophelia 22 Fed Com #707H)	12395.00	-128.00	315.00	377438.00	780588.00
PBHL (Ophelia 22 Fed Com #707H)	12395.00	-7488.00	368.00	370075.00	780641.00

HOBBS OCD

SEP 11 2017

RECEIVED





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com

#707H

OH

Plan: Plan #0.1

Standard Planning Report

28 March, 2017

HOBBS OGD

SEP 11 2017

RECEIVED



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ophelia 22 Fed Com
Well: #707H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25' @ 3326.00usft
MD Reference: KB = 25' @ 3326.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (NAD 83 NME)
Map System: US State Plane 1983 **System Datum:** Mean Sea Level
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

Site 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 #707H
Well Position +N/-S 7.00 usft Northing: 377,566.00 usft Latitude: 32.03566437
+E/-W 1,358.00 usft Easting: 780,273.00 usft Longitude: -103.56225562
Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,301.00 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) +N/-S +E/-W Direction
 (usft) (usft) (usft) (°)
 0.00 0.00 0.00 177.19

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	
4,243.95	2.44	62.72	4,243.88	2.38	4.62	1.00	1.00	0.00	62.72	
11,915.73	2.44	62.72	11,908.70	152.05	294.85	0.00	0.00	0.00	0.00	
12,674.91	90.00	179.59	12,395.00	-325.18	316.74	12.00	11.53	15.39	116.85	
19,837.91	90.00	179.59	12,395.00	-7,488.00	368.00	0.00	0.00	0.00	0.00	PBHL (Ophelia 22 Fed)



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Well: #707H
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MD Reference: KB = 25' @ 3326.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	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	62.72	4,100.00	0.40	0.78	-0.36	1.00	1.00	0.00
4,200.00	2.00	62.72	4,199.96	1.60	3.10	-1.45	1.00	1.00	0.00
4,243.95	2.44	62.72	4,243.88	2.38	4.62	-2.15	1.00	1.00	0.00
4,300.00	2.44	62.72	4,299.88	3.47	6.74	-3.14	0.00	0.00	0.00
4,400.00	2.44	62.72	4,399.78	5.42	10.52	-4.90	0.00	0.00	0.00
4,500.00	2.44	62.72	4,499.69	7.38	14.30	-6.66	0.00	0.00	0.00
4,600.00	2.44	62.72	4,599.60	9.33	18.08	-8.43	0.00	0.00	0.00
4,700.00	2.44	62.72	4,699.51	11.28	21.87	-10.19	0.00	0.00	0.00
4,800.00	2.44	62.72	4,799.42	13.23	25.65	-11.95	0.00	0.00	0.00
4,900.00	2.44	62.72	4,899.33	15.18	29.43	-13.72	0.00	0.00	0.00
5,000.00	2.44	62.72	4,999.24	17.13	33.22	-15.48	0.00	0.00	0.00
5,100.00	2.44	62.72	5,099.15	19.08	37.00	-17.24	0.00	0.00	0.00
5,200.00	2.44	62.72	5,199.06	21.03	40.78	-19.00	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ophelia 22 Fed Com
Well: #707H
Wellbore: OH
Design: Plan #0.1

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

Well #707H
KB = 25' @ 3326.00usft
KB = 25' @ 3326.00usft
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)
5,300.00	2.44	62.72	5,298.97	22.98	44.57	-20.77	0.00	0.00	0.00
5,400.00	2.44	62.72	5,398.88	24.93	48.35	-22.53	0.00	0.00	0.00
5,500.00	2.44	62.72	5,498.79	26.88	52.13	-24.29	0.00	0.00	0.00
5,600.00	2.44	62.72	5,598.70	28.84	55.92	-26.06	0.00	0.00	0.00
5,700.00	2.44	62.72	5,698.61	30.79	59.70	-27.82	0.00	0.00	0.00
5,800.00	2.44	62.72	5,798.52	32.74	63.48	-29.58	0.00	0.00	0.00
5,900.00	2.44	62.72	5,898.43	34.69	67.27	-31.34	0.00	0.00	0.00
6,000.00	2.44	62.72	5,998.33	36.64	71.05	-33.11	0.00	0.00	0.00
6,100.00	2.44	62.72	6,098.24	38.59	74.83	-34.87	0.00	0.00	0.00
6,200.00	2.44	62.72	6,198.15	40.54	78.61	-36.63	0.00	0.00	0.00
6,300.00	2.44	62.72	6,298.06	42.49	82.40	-38.40	0.00	0.00	0.00
6,400.00	2.44	62.72	6,397.97	44.44	86.18	-40.16	0.00	0.00	0.00
6,500.00	2.44	62.72	6,497.88	46.39	89.96	-41.92	0.00	0.00	0.00
6,600.00	2.44	62.72	6,597.79	48.34	93.75	-43.68	0.00	0.00	0.00
6,700.00	2.44	62.72	6,697.70	50.29	97.53	-45.45	0.00	0.00	0.00
6,800.00	2.44	62.72	6,797.61	52.25	101.31	-47.21	0.00	0.00	0.00
6,900.00	2.44	62.72	6,897.52	54.20	105.10	-48.97	0.00	0.00	0.00
7,000.00	2.44	62.72	6,997.43	56.15	108.88	-50.74	0.00	0.00	0.00
7,100.00	2.44	62.72	7,097.34	58.10	112.66	-52.50	0.00	0.00	0.00
7,200.00	2.44	62.72	7,197.25	60.05	116.45	-54.26	0.00	0.00	0.00
7,300.00	2.44	62.72	7,297.16	62.00	120.23	-56.02	0.00	0.00	0.00
7,400.00	2.44	62.72	7,397.07	63.95	124.01	-57.79	0.00	0.00	0.00
7,500.00	2.44	62.72	7,496.98	65.90	127.79	-59.55	0.00	0.00	0.00
7,600.00	2.44	62.72	7,596.88	67.85	131.58	-61.31	0.00	0.00	0.00
7,700.00	2.44	62.72	7,696.79	69.80	135.36	-63.08	0.00	0.00	0.00
7,800.00	2.44	62.72	7,796.70	71.75	139.14	-64.84	0.00	0.00	0.00
7,900.00	2.44	62.72	7,896.61	73.71	142.93	-66.60	0.00	0.00	0.00
8,000.00	2.44	62.72	7,996.52	75.66	146.71	-68.36	0.00	0.00	0.00
8,100.00	2.44	62.72	8,096.43	77.61	150.49	-70.13	0.00	0.00	0.00
8,200.00	2.44	62.72	8,196.34	79.56	154.28	-71.89	0.00	0.00	0.00
8,300.00	2.44	62.72	8,296.25	81.51	158.06	-73.65	0.00	0.00	0.00
8,400.00	2.44	62.72	8,396.16	83.46	161.84	-75.42	0.00	0.00	0.00
8,500.00	2.44	62.72	8,496.07	85.41	165.63	-77.18	0.00	0.00	0.00
8,600.00	2.44	62.72	8,595.98	87.36	169.41	-78.94	0.00	0.00	0.00
8,700.00	2.44	62.72	8,695.89	89.31	173.19	-80.70	0.00	0.00	0.00
8,800.00	2.44	62.72	8,795.80	91.26	176.98	-82.47	0.00	0.00	0.00
8,900.00	2.44	62.72	8,895.71	93.21	180.76	-84.23	0.00	0.00	0.00
9,000.00	2.44	62.72	8,995.62	95.17	184.54	-85.99	0.00	0.00	0.00
9,100.00	2.44	62.72	9,095.53	97.12	188.32	-87.76	0.00	0.00	0.00
9,200.00	2.44	62.72	9,195.43	99.07	192.11	-89.52	0.00	0.00	0.00
9,300.00	2.44	62.72	9,295.34	101.02	195.89	-91.28	0.00	0.00	0.00
9,400.00	2.44	62.72	9,395.25	102.97	199.67	-93.04	0.00	0.00	0.00
9,500.00	2.44	62.72	9,495.16	104.92	203.46	-94.81	0.00	0.00	0.00
9,600.00	2.44	62.72	9,595.07	106.87	207.24	-96.57	0.00	0.00	0.00
9,700.00	2.44	62.72	9,694.98	108.82	211.02	-98.33	0.00	0.00	0.00
9,800.00	2.44	62.72	9,794.89	110.77	214.81	-100.10	0.00	0.00	0.00
9,900.00	2.44	62.72	9,894.80	112.72	218.59	-101.86	0.00	0.00	0.00
10,000.00	2.44	62.72	9,994.71	114.67	222.37	-103.62	0.00	0.00	0.00
10,100.00	2.44	62.72	10,094.62	116.63	226.16	-105.38	0.00	0.00	0.00
10,200.00	2.44	62.72	10,194.53	118.58	229.94	-107.15	0.00	0.00	0.00
10,300.00	2.44	62.72	10,294.44	120.53	233.72	-108.91	0.00	0.00	0.00
10,400.00	2.44	62.72	10,394.35	122.48	237.50	-110.67	0.00	0.00	0.00
10,500.00	2.44	62.72	10,494.26	124.43	241.29	-112.44	0.00	0.00	0.00
10,600.00	2.44	62.72	10,594.17	126.38	245.07	-114.20	0.00	0.00	0.00



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 KB = 25' @ 3326.00usft
 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)
10,700.00	2.44	62.72	10,694.08	128.33	248.85	-115.96	0.00	0.00	0.00
10,800.00	2.44	62.72	10,793.98	130.28	252.64	-117.72	0.00	0.00	0.00
10,900.00	2.44	62.72	10,893.89	132.23	256.42	-119.49	0.00	0.00	0.00
11,000.00	2.44	62.72	10,993.80	134.18	260.20	-121.25	0.00	0.00	0.00
11,100.00	2.44	62.72	11,093.71	136.13	263.99	-123.01	0.00	0.00	0.00
11,200.00	2.44	62.72	11,193.62	138.09	267.77	-124.78	0.00	0.00	0.00
11,300.00	2.44	62.72	11,293.53	140.04	271.55	-126.54	0.00	0.00	0.00
11,400.00	2.44	62.72	11,393.44	141.99	275.34	-128.30	0.00	0.00	0.00
11,500.00	2.44	62.72	11,493.35	143.94	279.12	-130.06	0.00	0.00	0.00
11,600.00	2.44	62.72	11,593.26	145.89	282.90	-131.83	0.00	0.00	0.00
11,700.00	2.44	62.72	11,693.17	147.84	286.69	-133.59	0.00	0.00	0.00
11,800.00	2.44	62.72	11,793.08	149.79	290.47	-135.35	0.00	0.00	0.00
11,900.00	2.44	62.72	11,892.99	151.74	294.25	-137.12	0.00	0.00	0.00
11,915.73	2.44	62.72	11,908.70	152.05	294.85	-137.39	0.00	0.00	0.00
11,925.00	2.18	89.86	11,917.97	152.14	295.20	-137.47	12.00	-2.84	292.73
11,950.00	3.71	143.76	11,942.94	151.49	296.15	-136.77	12.00	6.15	215.57
11,975.00	6.39	159.76	11,967.84	149.53	297.11	-134.76	12.00	10.71	64.00
12,000.00	9.27	166.12	11,992.60	146.27	298.08	-131.46	12.00	11.51	25.46
12,025.00	12.20	169.47	12,017.16	141.71	299.04	-126.87	12.00	11.74	13.39
12,050.00	15.16	171.53	12,041.45	135.88	300.01	-120.99	12.00	11.84	8.24
12,075.00	18.14	172.93	12,065.40	128.78	300.97	-113.86	12.00	11.89	5.59
12,100.00	21.12	173.94	12,088.95	120.44	301.92	-105.48	12.00	11.92	4.06
12,125.00	24.10	174.72	12,112.02	110.88	302.87	-95.88	12.00	11.94	3.10
12,150.00	27.09	175.33	12,134.56	100.12	303.80	-85.09	12.00	11.95	2.45
12,175.00	30.08	175.83	12,156.51	88.19	304.72	-73.13	12.00	11.96	2.00
12,200.00	33.07	176.24	12,177.81	75.14	305.62	-60.04	12.00	11.97	1.67
12,225.00	36.07	176.60	12,198.39	60.98	306.51	-45.86	12.00	11.97	1.42
12,250.00	39.06	176.91	12,218.21	45.76	307.37	-30.62	12.00	11.98	1.23
12,275.00	42.06	177.18	12,237.20	29.53	308.21	-14.37	12.00	11.98	1.08
12,300.00	45.05	177.42	12,255.32	12.33	309.02	2.86	12.00	11.98	0.96
12,325.00	48.05	177.63	12,272.51	-5.80	309.80	21.00	12.00	11.98	0.87
12,350.00	51.04	177.83	12,288.73	-24.81	310.55	40.02	12.00	11.99	0.79
12,375.00	54.04	178.01	12,303.93	-44.64	311.27	59.86	12.00	11.99	0.72
12,400.00	57.04	178.18	12,318.07	-65.24	311.96	80.47	12.00	11.99	0.67
12,425.00	60.03	178.33	12,331.12	-86.55	312.61	101.79	12.00	11.99	0.63
12,450.00	63.03	178.48	12,343.04	-108.52	313.22	123.76	12.00	11.99	0.59
12,475.00	66.03	178.62	12,353.79	-131.08	313.79	146.32	12.00	11.99	0.56
12,487.94	67.58	178.69	12,358.88	-142.97	314.07	158.21	12.00	11.99	0.54
FTP (Ophelia 22 Fed Com #707H)									
12,500.00	69.03	178.76	12,363.34	-154.17	314.32	169.41	12.00	11.99	0.53
12,525.00	72.02	178.88	12,371.68	-177.73	314.80	192.97	12.00	11.99	0.51
12,550.00	75.02	179.01	12,378.77	-201.70	315.24	216.93	12.00	11.99	0.50
12,575.00	78.02	179.13	12,384.59	-226.00	315.64	241.22	12.00	11.99	0.48
12,600.00	81.02	179.25	12,389.14	-250.58	315.99	265.79	12.00	11.99	0.47
12,625.00	84.01	179.36	12,392.40	-275.36	316.29	290.56	12.00	11.99	0.46
12,650.00	87.01	179.48	12,394.35	-300.28	316.54	315.46	12.00	11.99	0.46
12,674.91	90.00	179.59	12,395.00	-325.18	316.74	340.34	12.00	11.99	0.46
12,700.00	90.00	179.59	12,395.00	-350.27	316.92	365.40	0.00	0.00	0.00
12,800.00	90.00	179.59	12,395.00	-450.27	317.64	465.32	0.00	0.00	0.00
12,900.00	90.00	179.59	12,395.00	-550.26	318.35	565.23	0.00	0.00	0.00
13,000.00	90.00	179.59	12,395.00	-650.26	319.07	665.14	0.00	0.00	0.00
13,100.00	90.00	179.59	12,395.00	-750.26	319.78	765.05	0.00	0.00	0.00
13,200.00	90.00	179.59	12,395.00	-850.26	320.50	864.96	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 83 NME)
 Site: Ophelia 22 Fed Com
 Well: #707H
 Wellbore: OH
 Design: Plan #0.1

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

Well #707H
 KB = 25' @ 3326.00usft
 KB = 25' @ 3326.00usft
 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)
13,300.00	90.00	179.59	12,395.00	-950.25	321.22	964.88	0.00	0.00	0.00
13,400.00	90.00	179.59	12,395.00	-1,050.25	321.93	1,064.79	0.00	0.00	0.00
13,500.00	90.00	179.59	12,395.00	-1,150.25	322.65	1,164.70	0.00	0.00	0.00
13,600.00	90.00	179.59	12,395.00	-1,250.25	323.36	1,264.61	0.00	0.00	0.00
13,700.00	90.00	179.59	12,395.00	-1,350.24	324.08	1,364.52	0.00	0.00	0.00
13,800.00	90.00	179.59	12,395.00	-1,450.24	324.79	1,464.44	0.00	0.00	0.00
13,900.00	90.00	179.59	12,395.00	-1,550.24	325.51	1,564.35	0.00	0.00	0.00
14,000.00	90.00	179.59	12,395.00	-1,650.24	326.23	1,664.26	0.00	0.00	0.00
14,100.00	90.00	179.59	12,395.00	-1,750.23	326.94	1,764.17	0.00	0.00	0.00
14,200.00	90.00	179.59	12,395.00	-1,850.23	327.66	1,864.08	0.00	0.00	0.00
14,300.00	90.00	179.59	12,395.00	-1,950.23	328.37	1,964.00	0.00	0.00	0.00
14,400.00	90.00	179.59	12,395.00	-2,050.23	329.09	2,063.91	0.00	0.00	0.00
14,500.00	90.00	179.59	12,395.00	-2,150.22	329.80	2,163.82	0.00	0.00	0.00
14,600.00	90.00	179.59	12,395.00	-2,250.22	330.52	2,263.73	0.00	0.00	0.00
14,700.00	90.00	179.59	12,395.00	-2,350.22	331.23	2,363.64	0.00	0.00	0.00
14,800.00	90.00	179.59	12,395.00	-2,450.22	331.95	2,463.56	0.00	0.00	0.00
14,900.00	90.00	179.59	12,395.00	-2,550.21	332.67	2,563.47	0.00	0.00	0.00
15,000.00	90.00	179.59	12,395.00	-2,650.21	333.38	2,663.38	0.00	0.00	0.00
15,100.00	90.00	179.59	12,395.00	-2,750.21	334.10	2,763.29	0.00	0.00	0.00
15,200.00	90.00	179.59	12,395.00	-2,850.21	334.81	2,863.20	0.00	0.00	0.00
15,300.00	90.00	179.59	12,395.00	-2,950.20	335.53	2,963.12	0.00	0.00	0.00
15,400.00	90.00	179.59	12,395.00	-3,050.20	336.24	3,063.03	0.00	0.00	0.00
15,500.00	90.00	179.59	12,395.00	-3,150.20	336.96	3,162.94	0.00	0.00	0.00
15,600.00	90.00	179.59	12,395.00	-3,250.20	337.67	3,262.85	0.00	0.00	0.00
15,700.00	90.00	179.59	12,395.00	-3,350.19	338.39	3,362.76	0.00	0.00	0.00
15,800.00	90.00	179.59	12,395.00	-3,450.19	339.11	3,462.68	0.00	0.00	0.00
15,900.00	90.00	179.59	12,395.00	-3,550.19	339.82	3,562.59	0.00	0.00	0.00
16,000.00	90.00	179.59	12,395.00	-3,650.18	340.54	3,662.50	0.00	0.00	0.00
16,100.00	90.00	179.59	12,395.00	-3,750.18	341.25	3,762.41	0.00	0.00	0.00
16,200.00	90.00	179.59	12,395.00	-3,850.18	341.97	3,862.32	0.00	0.00	0.00
16,300.00	90.00	179.59	12,395.00	-3,950.18	342.68	3,962.24	0.00	0.00	0.00
16,400.00	90.00	179.59	12,395.00	-4,050.17	343.40	4,062.15	0.00	0.00	0.00
16,500.00	90.00	179.59	12,395.00	-4,150.17	344.11	4,162.06	0.00	0.00	0.00
16,600.00	90.00	179.59	12,395.00	-4,250.17	344.83	4,261.97	0.00	0.00	0.00
16,700.00	90.00	179.59	12,395.00	-4,350.17	345.55	4,361.88	0.00	0.00	0.00
16,800.00	90.00	179.59	12,395.00	-4,450.16	346.26	4,461.80	0.00	0.00	0.00
16,900.00	90.00	179.59	12,395.00	-4,550.16	346.98	4,561.71	0.00	0.00	0.00
17,000.00	90.00	179.59	12,395.00	-4,650.16	347.69	4,661.62	0.00	0.00	0.00
17,100.00	90.00	179.59	12,395.00	-4,750.16	348.41	4,761.53	0.00	0.00	0.00
17,200.00	90.00	179.59	12,395.00	-4,850.15	349.12	4,861.44	0.00	0.00	0.00
17,300.00	90.00	179.59	12,395.00	-4,950.15	349.84	4,961.36	0.00	0.00	0.00
17,400.00	90.00	179.59	12,395.00	-5,050.15	350.55	5,061.27	0.00	0.00	0.00
17,500.00	90.00	179.59	12,395.00	-5,150.15	351.27	5,161.18	0.00	0.00	0.00
17,600.00	90.00	179.59	12,395.00	-5,250.14	351.99	5,261.09	0.00	0.00	0.00
17,700.00	90.00	179.59	12,395.00	-5,350.14	352.70	5,361.00	0.00	0.00	0.00
17,800.00	90.00	179.59	12,395.00	-5,450.14	353.42	5,460.92	0.00	0.00	0.00
17,900.00	90.00	179.59	12,395.00	-5,550.14	354.13	5,560.83	0.00	0.00	0.00
18,000.00	90.00	179.59	12,395.00	-5,650.13	354.85	5,660.74	0.00	0.00	0.00
18,100.00	90.00	179.59	12,395.00	-5,750.13	355.56	5,760.65	0.00	0.00	0.00
18,200.00	90.00	179.59	12,395.00	-5,850.13	356.28	5,860.56	0.00	0.00	0.00
18,300.00	90.00	179.59	12,395.00	-5,950.13	357.00	5,960.48	0.00	0.00	0.00
18,400.00	90.00	179.59	12,395.00	-6,050.12	357.71	6,060.39	0.00	0.00	0.00
18,500.00	90.00	179.59	12,395.00	-6,150.12	358.43	6,160.30	0.00	0.00	0.00
18,600.00	90.00	179.59	12,395.00	-6,250.12	359.14	6,260.21	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 83 NME)
Site: Ophelia 22 Fed Com
Well: #707H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25' @ 3326.00usft
MD Reference: KB = 25' @ 3326.00usft
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)
18,700.00	90.00	179.59	12,395.00	-6,350.12	359.86	6,360.13	0.00	0.00	0.00
18,800.00	90.00	179.59	12,395.00	-6,450.11	360.57	6,460.04	0.00	0.00	0.00
18,900.00	90.00	179.59	12,395.00	-6,550.11	361.29	6,559.95	0.00	0.00	0.00
19,000.00	90.00	179.59	12,395.00	-6,650.11	362.00	6,659.86	0.00	0.00	0.00
19,100.00	90.00	179.59	12,395.00	-6,750.11	362.72	6,759.77	0.00	0.00	0.00
19,200.00	90.00	179.59	12,395.00	-6,850.10	363.44	6,859.69	0.00	0.00	0.00
19,300.00	90.00	179.59	12,395.00	-6,950.10	364.15	6,959.60	0.00	0.00	0.00
19,400.00	90.00	179.59	12,395.00	-7,050.10	364.87	7,059.51	0.00	0.00	0.00
19,500.00	90.00	179.59	12,395.00	-7,150.10	365.58	7,159.42	0.00	0.00	0.00
19,600.00	90.00	179.59	12,395.00	-7,250.09	366.30	7,259.33	0.00	0.00	0.00
19,700.00	90.00	179.59	12,395.00	-7,350.09	367.01	7,359.25	0.00	0.00	0.00
19,800.00	90.00	179.59	12,395.00	-7,450.09	367.73	7,459.16	0.00	0.00	0.00
19,837.91	90.00	179.59	12,395.00	-7,488.00	368.00	7,497.04	0.00	0.00	0.00

PBHL (Ophelia 22 Fed Com #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 22 Fed Co - hit/miss target - Shape	0.00	0.00	12,395.00	-128.00	315.00	377,438.00	780,588.00	32.03530635	-103.56124210
- plan misses target center by 39.11usft at 12487.94usft MD (12358.88 TVD, -142.97 N, 314.07 E) - Point									
PBHL (Ophelia 22 Fed C - plan hits target center - Point	0.00	0.00	12,395.00	-7,488.00	368.00	370,078.00	780,641.00	32.01507456	-103.56124080