



Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com #704H

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: #704H

Ground Level: 3294.00
KB = 25' @ 3319.00u/sf
Northing: 377559.00
Easting: 778915.00
Latitude: 32.03567170
Longitude: -103.5663789

SECTION DETAILS

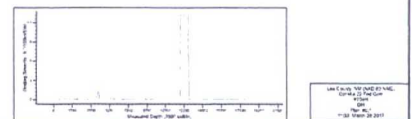
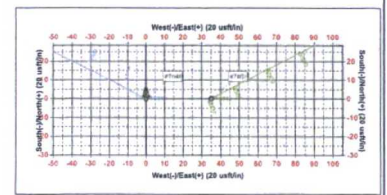
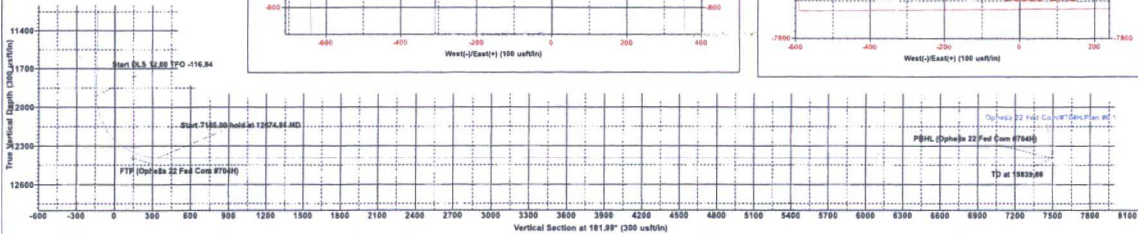
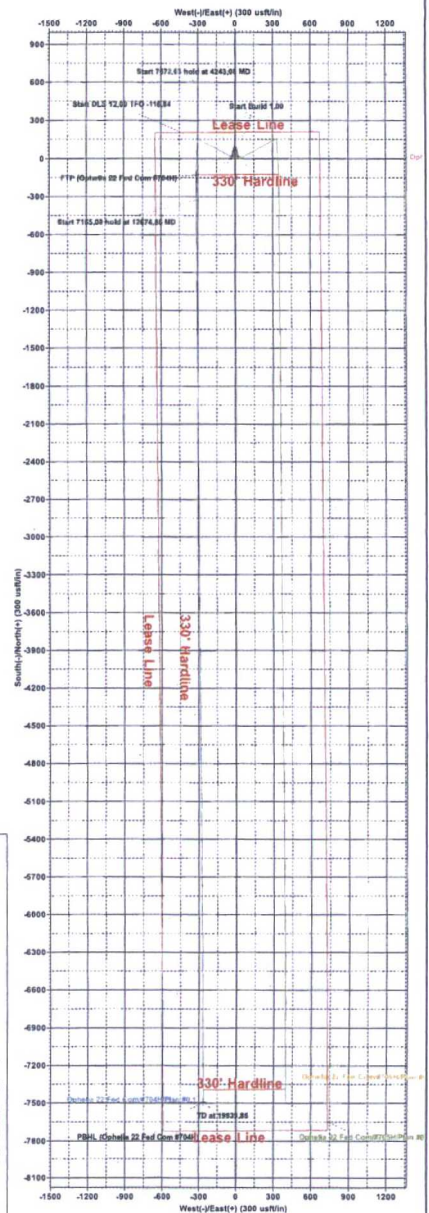
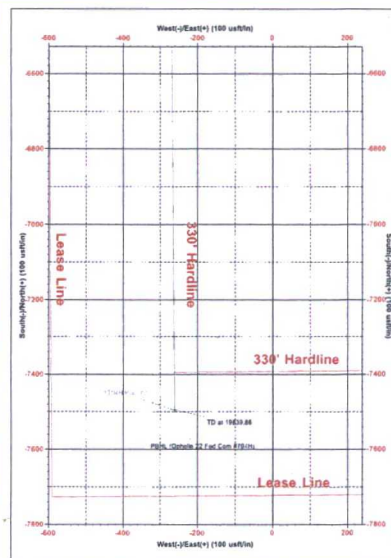
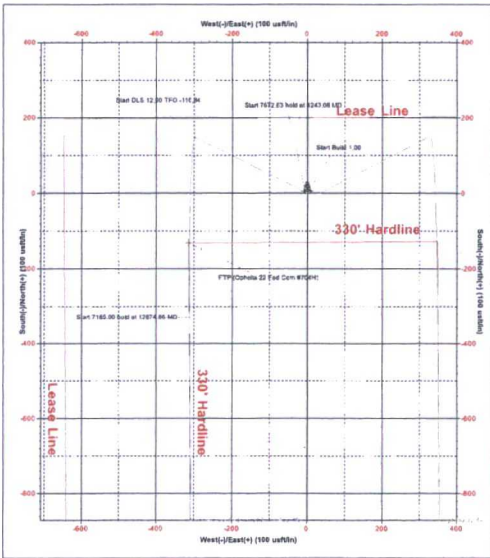
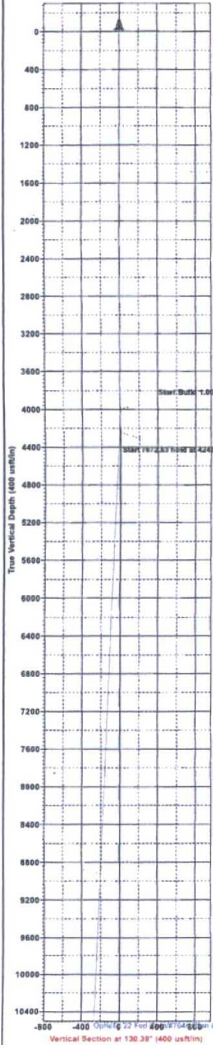
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4243.08	2.43	296.46	4243.01	2.30	-4.62	1.00	296.46	-2.14	
4	11915.71	2.43	296.46	11908.73	147.32	-295.94	0.00	0.00	-136.93	
5	12674.86	90.00	179.60	12395.00	-330.17	-311.02	12.00	-116.84	340.80	
6	19839.86	90.00	179.60	12395.00	-7495.00	-261.00	0.00	0.00	7499.54	PBHL (Ophelia 22 Fed Com #704H)

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 #704H)	12395.00	-132.00	-313.00	377427.00	778602.00
PBHL (Ophelia 22 Fed Com #704H)	12395.00	-7495.00	-261.00	370064.00	778654.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com

#704H

OH

Plan: Plan #0.1

HOBBS OCD

SEP 11 2017

RECEIVED

Standard Planning Report

28 March, 2017



Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ophelia 22 Fed Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3319.00usft
MD Reference: KB = 25' @ 3319.00usft
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 #704H

Well Position +N/-S 0.00 usft Northing: 377,559.00 usft Latitude: 32.03567171
+E/-W 0.00 usft Easting: 778,915.00 usft Longitude: -103.56663789
Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,294.00 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	
4,243.09	2.43	296.46	4,243.01	2.30	-4.62	1.00	1.00	0.00	296.46	
11,915.71	2.43	296.46	11,908.73	147.32	-295.94	0.00	0.00	0.00	0.00	
12,674.86	90.00	179.60	12,395.00	-330.17	-311.02	12.00	11.54	-15.39	-116.84	
19,839.86	90.00	179.60	12,395.00	-7,495.00	-261.00	0.00	0.00	0.00	0.00	PBHL (Ophelia 22 Fed)



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 Well: #704H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
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 MD Reference: KB = 25' @ 3319.00usft
 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	296.46	4,100.00	0.39	-0.78	-0.36	1.00	1.00	0.00
4,200.00	2.00	296.46	4,199.96	1.56	-3.12	-1.45	1.00	1.00	0.00
4,243.09	2.43	296.46	4,243.01	2.30	-4.62	-2.14	1.00	1.00	0.00
4,300.00	2.43	296.46	4,299.88	3.37	-6.78	-3.14	0.00	0.00	0.00
4,400.00	2.43	296.46	4,399.79	5.26	-10.57	-4.89	0.00	0.00	0.00
4,500.00	2.43	296.46	4,499.70	7.15	-14.37	-6.65	0.00	0.00	0.00
4,600.00	2.43	296.46	4,599.61	9.04	-18.17	-8.41	0.00	0.00	0.00
4,700.00	2.43	296.46	4,699.52	10.93	-21.96	-10.16	0.00	0.00	0.00
4,800.00	2.43	296.46	4,799.43	12.82	-25.76	-11.92	0.00	0.00	0.00
4,900.00	2.43	296.46	4,899.34	14.71	-29.56	-13.68	0.00	0.00	0.00
5,000.00	2.43	296.46	4,999.25	16.60	-33.35	-15.43	0.00	0.00	0.00
5,100.00	2.43	296.46	5,099.16	18.49	-37.15	-17.19	0.00	0.00	0.00
5,200.00	2.43	296.46	5,199.07	20.38	-40.95	-18.95	0.00	0.00	0.00



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 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	2.43	296.46	5,298.98	22.27	-44.75	-20.70	0.00	0.00	0.00
5,400.00	2.43	296.46	5,398.89	24.16	-48.54	-22.46	0.00	0.00	0.00
5,500.00	2.43	296.46	5,498.80	26.05	-52.34	-24.22	0.00	0.00	0.00
5,600.00	2.43	296.46	5,598.71	27.94	-56.14	-25.97	0.00	0.00	0.00
5,700.00	2.43	296.46	5,698.62	29.84	-59.93	-27.73	0.00	0.00	0.00
5,800.00	2.43	296.46	5,798.53	31.73	-63.73	-29.49	0.00	0.00	0.00
5,900.00	2.43	296.46	5,898.44	33.62	-67.53	-31.24	0.00	0.00	0.00
6,000.00	2.43	296.46	5,998.35	35.51	-71.32	-33.00	0.00	0.00	0.00
6,100.00	2.43	296.46	6,098.26	37.40	-75.12	-34.76	0.00	0.00	0.00
6,200.00	2.43	296.46	6,198.17	39.29	-78.92	-36.52	0.00	0.00	0.00
6,300.00	2.43	296.46	6,298.08	41.18	-82.71	-38.27	0.00	0.00	0.00
6,400.00	2.43	296.46	6,397.99	43.07	-86.51	-40.03	0.00	0.00	0.00
6,500.00	2.43	296.46	6,497.90	44.96	-90.31	-41.79	0.00	0.00	0.00
6,600.00	2.43	296.46	6,597.81	46.85	-94.11	-43.54	0.00	0.00	0.00
6,700.00	2.43	296.46	6,697.72	48.74	-97.90	-45.30	0.00	0.00	0.00
6,800.00	2.43	296.46	6,797.63	50.63	-101.70	-47.06	0.00	0.00	0.00
6,900.00	2.43	296.46	6,897.54	52.52	-105.50	-48.81	0.00	0.00	0.00
7,000.00	2.43	296.46	6,997.45	54.41	-109.29	-50.57	0.00	0.00	0.00
7,100.00	2.43	296.46	7,097.36	56.30	-113.09	-52.33	0.00	0.00	0.00
7,200.00	2.43	296.46	7,197.27	58.19	-116.89	-54.08	0.00	0.00	0.00
7,300.00	2.43	296.46	7,297.18	60.08	-120.68	-55.84	0.00	0.00	0.00
7,400.00	2.43	296.46	7,397.09	61.97	-124.48	-57.60	0.00	0.00	0.00
7,500.00	2.43	296.46	7,497.00	63.86	-128.28	-59.35	0.00	0.00	0.00
7,600.00	2.43	296.46	7,596.91	65.75	-132.07	-61.11	0.00	0.00	0.00
7,700.00	2.43	296.46	7,696.82	67.64	-135.87	-62.87	0.00	0.00	0.00
7,800.00	2.43	296.46	7,796.73	69.53	-139.67	-64.62	0.00	0.00	0.00
7,900.00	2.43	296.46	7,896.64	71.42	-143.47	-66.38	0.00	0.00	0.00
8,000.00	2.43	296.46	7,996.55	73.31	-147.26	-68.14	0.00	0.00	0.00
8,100.00	2.43	296.46	8,096.46	75.20	-151.06	-69.90	0.00	0.00	0.00
8,200.00	2.43	296.46	8,196.37	77.09	-154.86	-71.65	0.00	0.00	0.00
8,300.00	2.43	296.46	8,296.28	78.98	-158.65	-73.41	0.00	0.00	0.00
8,400.00	2.43	296.46	8,396.19	80.87	-162.45	-75.17	0.00	0.00	0.00
8,500.00	2.43	296.46	8,496.10	82.76	-166.25	-76.92	0.00	0.00	0.00
8,600.00	2.43	296.46	8,596.01	84.65	-170.04	-78.68	0.00	0.00	0.00
8,700.00	2.43	296.46	8,695.92	86.54	-173.84	-80.44	0.00	0.00	0.00
8,800.00	2.43	296.46	8,795.83	88.43	-177.64	-82.19	0.00	0.00	0.00
8,900.00	2.43	296.46	8,895.74	90.32	-181.43	-83.95	0.00	0.00	0.00
9,000.00	2.43	296.46	8,995.65	92.21	-185.23	-85.71	0.00	0.00	0.00
9,100.00	2.43	296.46	9,095.56	94.10	-189.03	-87.46	0.00	0.00	0.00
9,200.00	2.43	296.46	9,195.47	95.99	-192.83	-89.22	0.00	0.00	0.00
9,300.00	2.43	296.46	9,295.38	97.88	-196.62	-90.98	0.00	0.00	0.00
9,400.00	2.43	296.46	9,395.29	99.77	-200.42	-92.73	0.00	0.00	0.00
9,500.00	2.43	296.46	9,495.20	101.66	-204.22	-94.49	0.00	0.00	0.00
9,600.00	2.43	296.46	9,595.11	103.55	-208.01	-96.25	0.00	0.00	0.00
9,700.00	2.43	296.46	9,695.02	105.44	-211.81	-98.00	0.00	0.00	0.00
9,800.00	2.43	296.46	9,794.93	107.33	-215.61	-99.76	0.00	0.00	0.00
9,900.00	2.43	296.46	9,894.84	109.22	-219.40	-101.52	0.00	0.00	0.00
10,000.00	2.43	296.46	9,994.75	111.11	-223.20	-103.28	0.00	0.00	0.00
10,100.00	2.43	296.46	10,094.66	113.00	-227.00	-105.03	0.00	0.00	0.00
10,200.00	2.43	296.46	10,194.57	114.89	-230.79	-106.79	0.00	0.00	0.00
10,300.00	2.43	296.46	10,294.48	116.78	-234.59	-108.55	0.00	0.00	0.00
10,400.00	2.43	296.46	10,394.39	118.67	-238.39	-110.30	0.00	0.00	0.00
10,500.00	2.43	296.46	10,494.30	120.56	-242.19	-112.06	0.00	0.00	0.00
10,600.00	2.43	296.46	10,594.21	122.45	-245.98	-113.82	0.00	0.00	0.00



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10,700.00	2.43	296.46	10,694.12	124.34	-249.78	-115.57	0.00	0.00	0.00
10,800.00	2.43	296.46	10,794.03	126.23	-253.58	-117.33	0.00	0.00	0.00
10,900.00	2.43	296.46	10,893.94	128.12	-257.37	-119.09	0.00	0.00	0.00
11,000.00	2.43	296.46	10,993.85	130.01	-261.17	-120.84	0.00	0.00	0.00
11,100.00	2.43	296.46	11,093.76	131.90	-264.97	-122.60	0.00	0.00	0.00
11,200.00	2.43	296.46	11,193.67	133.79	-268.76	-124.36	0.00	0.00	0.00
11,300.00	2.43	296.46	11,293.58	135.68	-272.56	-126.11	0.00	0.00	0.00
11,400.00	2.43	296.46	11,393.49	137.57	-276.36	-127.87	0.00	0.00	0.00
11,500.00	2.43	296.46	11,493.40	139.46	-280.15	-129.63	0.00	0.00	0.00
11,600.00	2.43	296.46	11,593.31	141.35	-283.95	-131.38	0.00	0.00	0.00
11,700.00	2.43	296.46	11,693.22	143.24	-287.75	-133.14	0.00	0.00	0.00
11,800.00	2.43	296.46	11,793.13	145.13	-291.55	-134.90	0.00	0.00	0.00
11,900.00	2.43	296.46	11,893.04	147.02	-295.34	-136.65	0.00	0.00	0.00
11,915.71	2.43	296.46	11,908.73	147.32	-295.94	-136.93	0.00	0.00	0.00
11,925.00	2.17	269.16	11,918.02	147.40	-296.29	-137.00	12.00	-2.82	-293.90
11,950.00	3.71	215.28	11,942.99	146.74	-297.23	-136.30	12.00	6.18	-215.51
11,975.00	6.39	199.35	11,967.89	144.76	-298.16	-134.30	12.00	10.72	-63.73
12,000.00	9.27	193.01	11,992.65	141.49	-299.08	-130.99	12.00	11.51	-25.35
12,025.00	12.21	189.68	12,017.21	136.92	-299.97	-126.39	12.00	11.74	-13.33
12,050.00	15.17	187.63	12,041.50	131.07	-300.85	-120.52	12.00	11.84	-8.21
12,075.00	18.14	186.24	12,065.45	123.95	-301.71	-113.38	12.00	11.89	-5.57
12,100.00	21.12	185.23	12,088.99	115.60	-302.54	-105.00	12.00	11.92	-4.05
12,125.00	24.11	184.45	12,112.07	106.02	-303.35	-95.40	12.00	11.94	-3.08
12,150.00	27.10	183.84	12,134.61	95.25	-304.13	-84.60	12.00	11.95	-2.44
12,175.00	30.09	183.35	12,156.56	83.31	-304.88	-72.64	12.00	11.96	-1.99
12,200.00	33.08	182.93	12,177.85	70.23	-305.59	-59.56	12.00	11.97	-1.66
12,225.00	36.07	182.58	12,198.44	56.06	-306.27	-45.37	12.00	11.97	-1.41
12,250.00	39.07	182.27	12,218.25	40.84	-306.92	-30.13	12.00	11.98	-1.22
12,275.00	42.06	182.01	12,237.24	24.59	-307.52	-13.87	12.00	11.98	-1.08
12,300.00	45.06	181.77	12,255.35	7.37	-308.09	3.35	12.00	11.98	-0.96
12,325.00	48.05	181.55	12,272.54	-10.77	-308.61	21.50	12.00	11.98	-0.86
12,350.00	51.05	181.35	12,288.76	-29.78	-309.09	40.52	12.00	11.99	-0.78
12,375.00	54.05	181.17	12,303.96	-49.62	-309.53	60.36	12.00	11.99	-0.72
12,400.00	57.04	181.01	12,318.10	-70.23	-309.92	80.97	12.00	11.99	-0.67
12,425.00	60.04	180.85	12,331.15	-91.55	-310.27	102.29	12.00	11.99	-0.62
12,450.00	63.04	180.70	12,343.06	-113.52	-310.57	124.26	12.00	11.99	-0.59
12,475.00	66.03	180.56	12,353.81	-136.09	-310.82	146.83	12.00	11.99	-0.56
12,486.98	67.47	180.50	12,358.53	-147.10	-310.92	157.83	12.00	11.99	-0.54
FTP (Ophelia 22 Fed Com #704H)									
12,500.00	69.03	180.43	12,363.36	-159.19	-311.02	169.92	12.00	11.99	-0.53
12,525.00	72.03	180.30	12,371.69	-182.76	-311.17	193.48	12.00	11.99	-0.51
12,550.00	75.03	180.18	12,378.78	-206.73	-311.27	217.44	12.00	11.99	-0.49
12,575.00	78.03	180.06	12,384.60	-231.04	-311.32	241.73	12.00	11.99	-0.48
12,600.00	81.02	179.94	12,389.15	-255.62	-311.32	266.30	12.00	11.99	-0.47
12,625.00	84.02	179.83	12,392.40	-280.40	-311.27	291.07	12.00	11.99	-0.46
12,650.00	87.02	179.71	12,394.35	-305.32	-311.17	315.97	12.00	11.99	-0.46
12,674.86	90.00	179.60	12,395.00	-330.17	-311.02	340.80	12.00	11.99	-0.45
12,700.00	90.00	179.60	12,395.00	-355.31	-310.85	365.92	0.00	0.00	0.00
12,800.00	90.00	179.60	12,395.00	-455.31	-310.15	465.83	0.00	0.00	0.00
12,900.00	90.00	179.60	12,395.00	-555.31	-309.45	565.74	0.00	0.00	0.00
13,000.00	90.00	179.60	12,395.00	-655.31	-308.75	665.65	0.00	0.00	0.00
13,100.00	90.00	179.60	12,395.00	-755.30	-308.05	765.57	0.00	0.00	0.00
13,200.00	90.00	179.60	12,395.00	-855.30	-307.35	865.48	0.00	0.00	0.00



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Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ophelia 22 Fed Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3319.00usft
MD Reference: KB = 25' @ 3319.00usft
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)
13,300.00	90.00	179.60	12,395.00	-955.30	-306.66	965.39	0.00	0.00	0.00
13,400.00	90.00	179.60	12,395.00	-1,055.30	-305.96	1,065.30	0.00	0.00	0.00
13,500.00	90.00	179.60	12,395.00	-1,155.29	-305.26	1,165.22	0.00	0.00	0.00
13,600.00	90.00	179.60	12,395.00	-1,255.29	-304.56	1,265.13	0.00	0.00	0.00
13,700.00	90.00	179.60	12,395.00	-1,355.29	-303.86	1,365.04	0.00	0.00	0.00
13,800.00	90.00	179.60	12,395.00	-1,455.29	-303.17	1,464.95	0.00	0.00	0.00
13,900.00	90.00	179.60	12,395.00	-1,555.28	-302.47	1,564.87	0.00	0.00	0.00
14,000.00	90.00	179.60	12,395.00	-1,655.28	-301.77	1,664.78	0.00	0.00	0.00
14,100.00	90.00	179.60	12,395.00	-1,755.28	-301.07	1,764.69	0.00	0.00	0.00
14,200.00	90.00	179.60	12,395.00	-1,855.28	-300.37	1,864.61	0.00	0.00	0.00
14,300.00	90.00	179.60	12,395.00	-1,955.27	-299.68	1,964.52	0.00	0.00	0.00
14,400.00	90.00	179.60	12,395.00	-2,055.27	-298.98	2,064.43	0.00	0.00	0.00
14,500.00	90.00	179.60	12,395.00	-2,155.27	-298.28	2,164.34	0.00	0.00	0.00
14,600.00	90.00	179.60	12,395.00	-2,255.27	-297.58	2,264.26	0.00	0.00	0.00
14,700.00	90.00	179.60	12,395.00	-2,355.26	-296.88	2,364.17	0.00	0.00	0.00
14,800.00	90.00	179.60	12,395.00	-2,455.26	-296.18	2,464.08	0.00	0.00	0.00
14,900.00	90.00	179.60	12,395.00	-2,555.26	-295.49	2,563.99	0.00	0.00	0.00
15,000.00	90.00	179.60	12,395.00	-2,655.26	-294.79	2,663.91	0.00	0.00	0.00
15,100.00	90.00	179.60	12,395.00	-2,755.25	-294.09	2,763.82	0.00	0.00	0.00
15,200.00	90.00	179.60	12,395.00	-2,855.25	-293.39	2,863.73	0.00	0.00	0.00
15,300.00	90.00	179.60	12,395.00	-2,955.25	-292.69	2,963.65	0.00	0.00	0.00
15,400.00	90.00	179.60	12,395.00	-3,055.25	-292.00	3,063.56	0.00	0.00	0.00
15,500.00	90.00	179.60	12,395.00	-3,155.24	-291.30	3,163.47	0.00	0.00	0.00
15,600.00	90.00	179.60	12,395.00	-3,255.24	-290.60	3,263.38	0.00	0.00	0.00
15,700.00	90.00	179.60	12,395.00	-3,355.24	-289.90	3,363.30	0.00	0.00	0.00
15,800.00	90.00	179.60	12,395.00	-3,455.24	-289.20	3,463.21	0.00	0.00	0.00
15,900.00	90.00	179.60	12,395.00	-3,555.23	-288.51	3,563.12	0.00	0.00	0.00
16,000.00	90.00	179.60	12,395.00	-3,655.23	-287.81	3,663.03	0.00	0.00	0.00
16,100.00	90.00	179.60	12,395.00	-3,755.23	-287.11	3,762.95	0.00	0.00	0.00
16,200.00	90.00	179.60	12,395.00	-3,855.23	-286.41	3,862.86	0.00	0.00	0.00
16,300.00	90.00	179.60	12,395.00	-3,955.22	-285.71	3,962.77	0.00	0.00	0.00
16,400.00	90.00	179.60	12,395.00	-4,055.22	-285.01	4,062.68	0.00	0.00	0.00
16,500.00	90.00	179.60	12,395.00	-4,155.22	-284.32	4,162.60	0.00	0.00	0.00
16,600.00	90.00	179.60	12,395.00	-4,255.22	-283.62	4,262.51	0.00	0.00	0.00
16,700.00	90.00	179.60	12,395.00	-4,355.22	-282.92	4,362.42	0.00	0.00	0.00
16,800.00	90.00	179.60	12,395.00	-4,455.21	-282.22	4,462.34	0.00	0.00	0.00
16,900.00	90.00	179.60	12,395.00	-4,555.21	-281.52	4,562.25	0.00	0.00	0.00
17,000.00	90.00	179.60	12,395.00	-4,655.21	-280.83	4,662.16	0.00	0.00	0.00
17,100.00	90.00	179.60	12,395.00	-4,755.21	-280.13	4,762.07	0.00	0.00	0.00
17,200.00	90.00	179.60	12,395.00	-4,855.20	-279.43	4,861.99	0.00	0.00	0.00
17,300.00	90.00	179.60	12,395.00	-4,955.20	-278.73	4,961.90	0.00	0.00	0.00
17,400.00	90.00	179.60	12,395.00	-5,055.20	-278.03	5,061.81	0.00	0.00	0.00
17,500.00	90.00	179.60	12,395.00	-5,155.20	-277.34	5,161.72	0.00	0.00	0.00
17,600.00	90.00	179.60	12,395.00	-5,255.19	-276.64	5,261.64	0.00	0.00	0.00
17,700.00	90.00	179.60	12,395.00	-5,355.19	-275.94	5,361.55	0.00	0.00	0.00
17,800.00	90.00	179.60	12,395.00	-5,455.19	-275.24	5,461.46	0.00	0.00	0.00
17,900.00	90.00	179.60	12,395.00	-5,555.19	-274.54	5,561.38	0.00	0.00	0.00
18,000.00	90.00	179.60	12,395.00	-5,655.18	-273.84	5,661.29	0.00	0.00	0.00
18,100.00	90.00	179.60	12,395.00	-5,755.18	-273.15	5,761.20	0.00	0.00	0.00
18,200.00	90.00	179.60	12,395.00	-5,855.18	-272.45	5,861.11	0.00	0.00	0.00
18,300.00	90.00	179.60	12,395.00	-5,955.18	-271.75	5,961.03	0.00	0.00	0.00
18,400.00	90.00	179.60	12,395.00	-6,055.17	-271.05	6,060.94	0.00	0.00	0.00
18,500.00	90.00	179.60	12,395.00	-6,155.17	-270.35	6,160.85	0.00	0.00	0.00
18,600.00	90.00	179.60	12,395.00	-6,255.17	-269.66	6,260.76	0.00	0.00	0.00



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Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3319.00usft
 MD Reference: KB = 25' @ 3319.00usft
 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	179.60	12,395.00	-6,355.17	-268.96	6,360.68	0.00	0.00	0.00
18,800.00	90.00	179.60	12,395.00	-6,455.16	-268.26	6,460.59	0.00	0.00	0.00
18,900.00	90.00	179.60	12,395.00	-6,555.16	-267.56	6,560.50	0.00	0.00	0.00
19,000.00	90.00	179.60	12,395.00	-6,655.16	-266.86	6,660.41	0.00	0.00	0.00
19,100.00	90.00	179.60	12,395.00	-6,755.16	-266.17	6,760.33	0.00	0.00	0.00
19,200.00	90.00	179.60	12,395.00	-6,855.15	-265.47	6,860.24	0.00	0.00	0.00
19,300.00	90.00	179.60	12,395.00	-6,955.15	-264.77	6,960.15	0.00	0.00	0.00
19,400.00	90.00	179.60	12,395.00	-7,055.15	-264.07	7,060.07	0.00	0.00	0.00
19,500.00	90.00	179.60	12,395.00	-7,155.15	-263.37	7,159.98	0.00	0.00	0.00
19,600.00	90.00	179.60	12,395.00	-7,255.14	-262.67	7,259.89	0.00	0.00	0.00
19,700.00	90.00	179.60	12,395.00	-7,355.14	-261.98	7,359.80	0.00	0.00	0.00
19,800.00	90.00	179.60	12,395.00	-7,455.14	-261.28	7,459.72	0.00	0.00	0.00
19,839.86	90.00	179.60	12,395.00	-7,495.00	-261.00	7,499.54	0.00	0.00	0.00

PBHL (Ophelia 22 Fed Com #704H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (Ophelia 22 Fed Co	0.00	0.00	12,395.00	-132.00	-313.00	377,427.00	778,602.00	32.03531498	-103.56765093
- plan misses target center by 39.52usft at 12486.98usft MD (12358.53 TVD, -147.10 N, -310.92 E)									
- Point									
PBHL (Ophelia 22 Fed C	0.00	0.00	12,395.00	-7,495.00	-261.00	370,064.00	778,654.00	32.01507494	-103.56765152
- plan hits target center									
- Point									