



Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com #705H

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: #705H

Ground Level: 3295.00
KB = 25' @ 3320.00usft
Northing 377559.00 Easting 778950.00 Latitude 32.03567102 Longitude -103.56652495

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	4242.98	2.43	62.80	4242.91	2.35	4.58	1.00	62.80	-2.13	
4	11915.73	2.43	62.80	11908.76	151.05	293.90	0.00	0.00	-136.49	
5	12674.86	90.00	179.59	12395.00	-326.18	315.73	12.00	116.77	341.24	
6	19839.86	90.00	179.59	12395.00	-7491.00	367.00	0.00	0.00	7499.98	PBHL (Ophelia 22 Fed Com #705H)

To convert a Magnetic Direction to a Grid Direction, Add 6.96°
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°



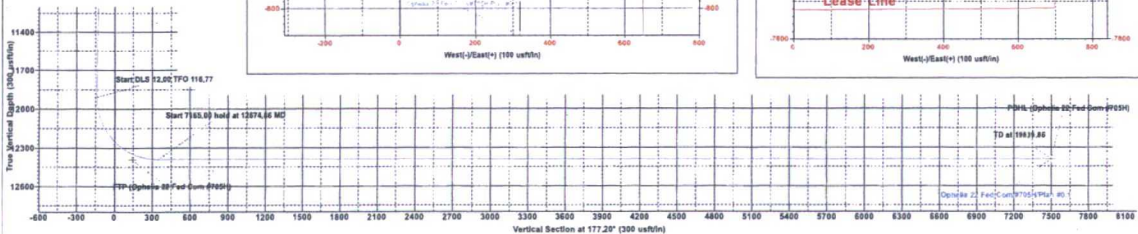
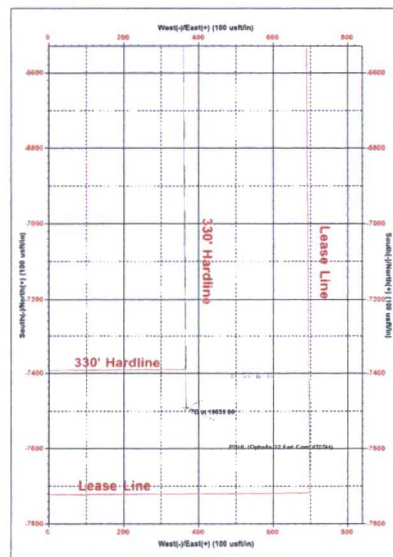
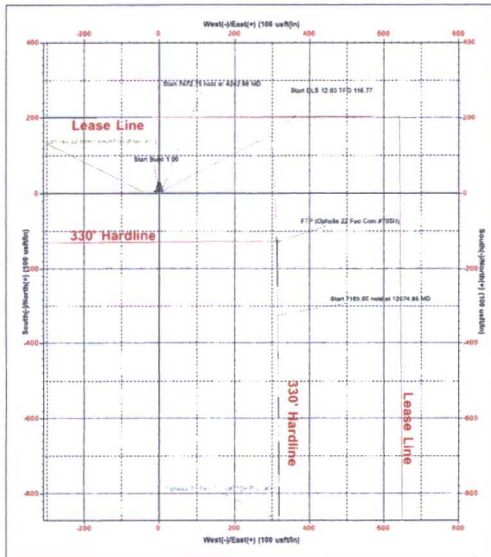
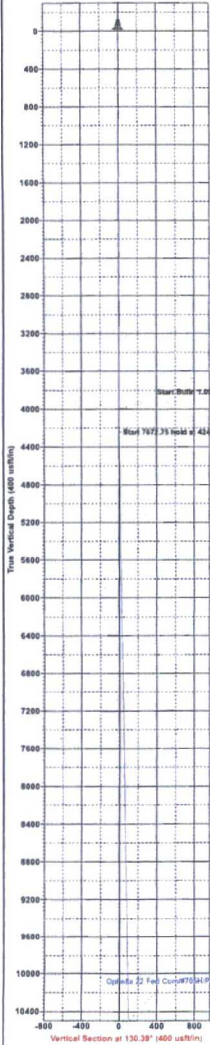
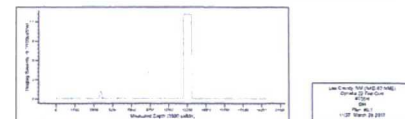
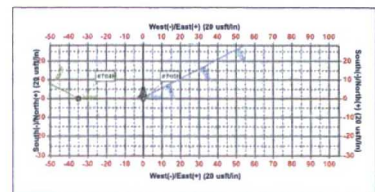
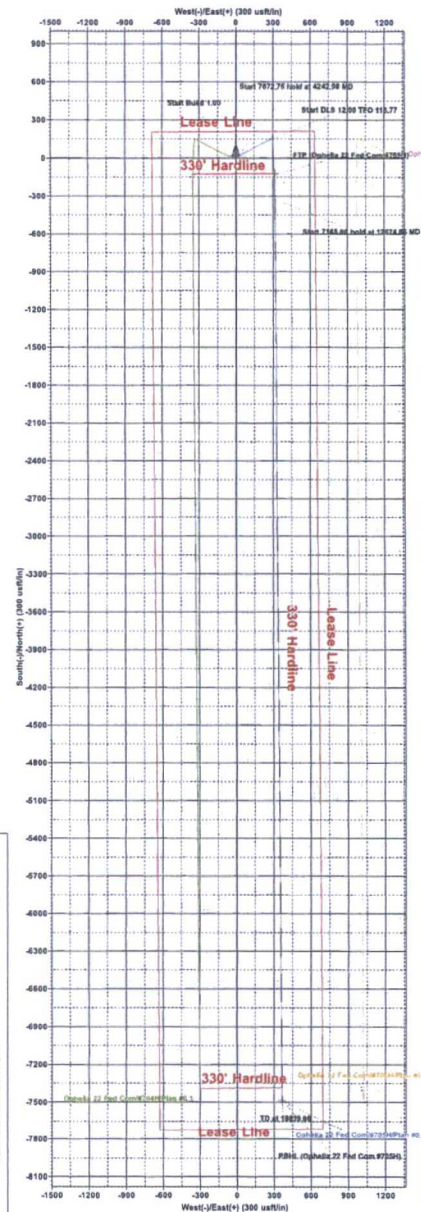
Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.55°

Magnetic Field
Strength: 47850.8nT
Dip Angle: 59.89°
Date: 3/27/2017
Model: IGRF2015

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 #705H)	12395.00	-128.00	315.00	377431.00	778265.00
PBHL (Ophelia 22 Fed Com #705H)	12395.00	-7491.00	367.00	378068.00	779317.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com

#705H

OH

Plan: Plan #0.1

HOBBS OCD
SEP 11 2017
RECEIVED

Standard Planning Report

28 March, 2017



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: #705H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25' @ 3320.00usft
MD Reference: KB = 25' @ 3320.00usft
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 #705H

Well Position	+N/-S	0.00 usft	Northing:	377,559.00 usft	Latitude:	32.03567102
	+E/-W	35.00 usft	Easting:	778,950.00 usft	Longitude:	-103.56652495
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,295.00 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
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	177.20

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	
4,242.98	2.43	62.80	4,242.91	2.35	4.58	1.00	1.00	0.00	62.80	
11,915.73	2.43	62.80	11,908.76	151.05	293.90	0.00	0.00	0.00	0.00	
12,674.86	90.00	179.59	12,395.00	-326.18	315.73	12.00	11.54	15.39	116.77	
19,839.86	90.00	179.59	12,395.00	-7,491.00	367.00	0.00	0.00	0.00	0.00	PBHL (Ophelia 22 Fed)



EOG Resources, Inc.

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Well: #705H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #705H
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MD Reference: KB = 25' @ 3320.00usft
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	62.80	4,100.00	0.40	0.78	-0.36	1.00	1.00	0.00
4,200.00	2.00	62.80	4,199.96	1.60	3.10	-1.44	1.00	1.00	0.00
4,242.98	2.43	62.80	4,242.91	2.35	4.58	-2.13	1.00	1.00	0.00
4,300.00	2.43	62.80	4,299.88	3.46	6.73	-3.13	0.00	0.00	0.00
4,400.00	2.43	62.80	4,399.79	5.40	10.50	-4.88	0.00	0.00	0.00
4,500.00	2.43	62.80	4,499.70	7.34	14.27	-6.63	0.00	0.00	0.00
4,600.00	2.43	62.80	4,599.61	9.27	18.04	-8.38	0.00	0.00	0.00
4,700.00	2.43	62.80	4,699.52	11.21	21.81	-10.13	0.00	0.00	0.00
4,800.00	2.43	62.80	4,799.43	13.15	25.59	-11.88	0.00	0.00	0.00
4,900.00	2.43	62.80	4,899.34	15.09	29.36	-13.63	0.00	0.00	0.00
5,000.00	2.43	62.80	4,999.25	17.03	33.13	-15.38	0.00	0.00	0.00
5,100.00	2.43	62.80	5,099.16	18.96	36.90	-17.14	0.00	0.00	0.00
5,200.00	2.43	62.80	5,199.07	20.90	40.67	-18.89	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Site: Ophelia 22 Fed Com
Well: #705H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25' @ 3320.00usft
MD Reference: KB = 25' @ 3320.00usft
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)
5,300.00	2.43	62.80	5,298.98	22.84	44.44	-20.64	0.00	0.00	0.00
5,400.00	2.43	62.80	5,398.89	24.78	48.21	-22.39	0.00	0.00	0.00
5,500.00	2.43	62.80	5,498.80	26.72	51.98	-24.14	0.00	0.00	0.00
5,600.00	2.43	62.80	5,598.71	28.65	55.75	-25.89	0.00	0.00	0.00
5,700.00	2.43	62.80	5,698.62	30.59	59.52	-27.64	0.00	0.00	0.00
5,800.00	2.43	62.80	5,798.53	32.53	63.29	-29.39	0.00	0.00	0.00
5,900.00	2.43	62.80	5,898.44	34.47	67.06	-31.14	0.00	0.00	0.00
6,000.00	2.43	62.80	5,998.35	36.41	70.83	-32.90	0.00	0.00	0.00
6,100.00	2.43	62.80	6,098.26	38.34	74.60	-34.65	0.00	0.00	0.00
6,200.00	2.43	62.80	6,198.17	40.28	78.37	-36.40	0.00	0.00	0.00
6,300.00	2.43	62.80	6,298.08	42.22	82.14	-38.15	0.00	0.00	0.00
6,400.00	2.43	62.80	6,397.99	44.16	85.92	-39.90	0.00	0.00	0.00
6,500.00	2.43	62.80	6,497.90	46.10	89.69	-41.65	0.00	0.00	0.00
6,600.00	2.43	62.80	6,597.81	48.03	93.46	-43.40	0.00	0.00	0.00
6,700.00	2.43	62.80	6,697.72	49.97	97.23	-45.15	0.00	0.00	0.00
6,800.00	2.43	62.80	6,797.63	51.91	101.00	-46.90	0.00	0.00	0.00
6,900.00	2.43	62.80	6,897.54	53.85	104.77	-48.66	0.00	0.00	0.00
7,000.00	2.43	62.80	6,997.45	55.78	108.54	-50.41	0.00	0.00	0.00
7,100.00	2.43	62.80	7,097.36	57.72	112.31	-52.16	0.00	0.00	0.00
7,200.00	2.43	62.80	7,197.27	59.66	116.08	-53.91	0.00	0.00	0.00
7,300.00	2.43	62.80	7,297.18	61.60	119.85	-55.66	0.00	0.00	0.00
7,400.00	2.43	62.80	7,397.09	63.54	123.62	-57.41	0.00	0.00	0.00
7,500.00	2.43	62.80	7,497.00	65.47	127.39	-59.16	0.00	0.00	0.00
7,600.00	2.43	62.80	7,596.91	67.41	131.16	-60.91	0.00	0.00	0.00
7,700.00	2.43	62.80	7,696.82	69.35	134.93	-62.66	0.00	0.00	0.00
7,800.00	2.43	62.80	7,796.73	71.29	138.70	-64.42	0.00	0.00	0.00
7,900.00	2.43	62.80	7,896.64	73.23	142.48	-66.17	0.00	0.00	0.00
8,000.00	2.43	62.80	7,996.55	75.16	146.25	-67.92	0.00	0.00	0.00
8,100.00	2.43	62.80	8,096.46	77.10	150.02	-69.67	0.00	0.00	0.00
8,200.00	2.43	62.80	8,196.37	79.04	153.79	-71.42	0.00	0.00	0.00
8,300.00	2.43	62.80	8,296.28	80.98	157.56	-73.17	0.00	0.00	0.00
8,400.00	2.43	62.80	8,396.19	82.92	161.33	-74.92	0.00	0.00	0.00
8,500.00	2.43	62.80	8,496.10	84.85	165.10	-76.67	0.00	0.00	0.00
8,600.00	2.43	62.80	8,596.01	86.79	168.87	-78.43	0.00	0.00	0.00
8,700.00	2.43	62.80	8,695.92	88.73	172.64	-80.18	0.00	0.00	0.00
8,800.00	2.43	62.80	8,795.83	90.67	176.41	-81.93	0.00	0.00	0.00
8,900.00	2.43	62.80	8,895.74	92.61	180.18	-83.68	0.00	0.00	0.00
9,000.00	2.43	62.80	8,995.65	94.54	183.95	-85.43	0.00	0.00	0.00
9,100.00	2.43	62.80	9,095.56	96.48	187.72	-87.18	0.00	0.00	0.00
9,200.00	2.43	62.80	9,195.47	98.42	191.49	-88.93	0.00	0.00	0.00
9,300.00	2.43	62.80	9,295.38	100.36	195.26	-90.68	0.00	0.00	0.00
9,400.00	2.43	62.80	9,395.29	102.30	199.04	-92.43	0.00	0.00	0.00
9,500.00	2.43	62.80	9,495.20	104.23	202.81	-94.19	0.00	0.00	0.00
9,600.00	2.43	62.80	9,595.11	106.17	206.58	-95.94	0.00	0.00	0.00
9,700.00	2.43	62.80	9,695.02	108.11	210.35	-97.69	0.00	0.00	0.00
9,800.00	2.43	62.80	9,794.93	110.05	214.12	-99.44	0.00	0.00	0.00
9,900.00	2.43	62.80	9,894.84	111.99	217.89	-101.19	0.00	0.00	0.00
10,000.00	2.43	62.80	9,994.75	113.92	221.66	-102.94	0.00	0.00	0.00
10,100.00	2.43	62.80	10,094.66	115.86	225.43	-104.69	0.00	0.00	0.00
10,200.00	2.43	62.80	10,194.57	117.80	229.20	-106.44	0.00	0.00	0.00
10,300.00	2.43	62.80	10,294.48	119.74	232.97	-108.19	0.00	0.00	0.00
10,400.00	2.43	62.80	10,394.39	121.68	236.74	-109.95	0.00	0.00	0.00
10,500.00	2.43	62.80	10,494.30	123.61	240.51	-111.70	0.00	0.00	0.00
10,600.00	2.43	62.80	10,594.21	125.55	244.28	-113.45	0.00	0.00	0.00



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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	62.80	10,694.12	127.49	248.05	-115.20	0.00	0.00	0.00
10,800.00	2.43	62.80	10,794.03	129.43	251.82	-116.95	0.00	0.00	0.00
10,900.00	2.43	62.80	10,893.94	131.37	255.60	-118.70	0.00	0.00	0.00
11,000.00	2.43	62.80	10,993.85	133.30	259.37	-120.45	0.00	0.00	0.00
11,100.00	2.43	62.80	11,093.76	135.24	263.14	-122.20	0.00	0.00	0.00
11,200.00	2.43	62.80	11,193.67	137.18	266.91	-123.95	0.00	0.00	0.00
11,300.00	2.43	62.80	11,293.58	139.12	270.68	-125.71	0.00	0.00	0.00
11,400.00	2.43	62.80	11,393.49	141.06	274.45	-127.46	0.00	0.00	0.00
11,500.00	2.43	62.80	11,493.40	142.99	278.22	-129.21	0.00	0.00	0.00
11,600.00	2.43	62.80	11,593.31	144.93	281.99	-130.96	0.00	0.00	0.00
11,700.00	2.43	62.80	11,693.22	146.87	285.76	-132.71	0.00	0.00	0.00
11,800.00	2.43	62.80	11,793.13	148.81	289.53	-134.46	0.00	0.00	0.00
11,900.00	2.43	62.80	11,893.04	150.75	293.30	-136.21	0.00	0.00	0.00
11,915.73	2.43	62.80	11,908.76	151.05	293.90	-136.49	0.00	0.00	0.00
11,925.00	2.17	90.05	11,918.02	151.14	294.25	-136.56	12.00	-2.81	293.98
11,950.00	3.72	143.91	11,942.99	150.48	295.20	-135.86	12.00	6.19	215.44
11,975.00	6.40	159.84	11,967.89	148.52	296.15	-133.85	12.00	10.72	63.72
12,000.00	9.27	166.17	11,992.66	145.26	297.11	-130.55	12.00	11.51	25.35
12,025.00	12.21	169.51	12,017.22	140.70	298.08	-125.95	12.00	11.74	13.33
12,050.00	15.17	171.56	12,041.51	134.87	299.04	-120.07	12.00	11.84	8.21
12,075.00	18.14	172.95	12,065.45	127.77	300.00	-112.93	12.00	11.89	5.57
12,100.00	21.12	173.96	12,089.00	119.42	300.95	-104.55	12.00	11.92	4.05
12,125.00	24.11	174.73	12,112.07	109.86	301.89	-94.95	12.00	11.94	3.08
12,150.00	27.10	175.34	12,134.62	99.09	302.82	-84.16	12.00	11.95	2.44
12,175.00	30.09	175.84	12,156.56	87.17	303.74	-72.20	12.00	11.96	1.99
12,200.00	33.08	176.26	12,177.86	74.10	304.64	-59.11	12.00	11.97	1.66
12,225.00	36.07	176.61	12,198.44	59.95	305.52	-44.92	12.00	11.97	1.41
12,250.00	39.07	176.92	12,218.25	44.73	306.38	-29.68	12.00	11.98	1.22
12,275.00	42.06	177.18	12,237.24	28.49	307.21	-13.43	12.00	11.98	1.08
12,300.00	45.06	177.42	12,255.36	11.29	308.02	3.80	12.00	11.98	0.96
12,325.00	48.05	177.64	12,272.55	-6.85	308.81	21.95	12.00	11.98	0.86
12,350.00	51.05	177.84	12,288.76	-25.85	309.56	40.97	12.00	11.99	0.78
12,375.00	54.05	178.02	12,303.96	-45.69	310.27	60.81	12.00	11.99	0.72
12,400.00	57.04	178.18	12,318.10	-66.29	310.96	81.42	12.00	11.99	0.67
12,425.00	60.04	178.34	12,331.15	-87.60	311.60	102.74	12.00	11.99	0.62
12,450.00	63.04	178.49	12,343.06	-109.57	312.21	124.71	12.00	11.99	0.59
12,475.00	66.04	178.63	12,353.81	-132.13	312.78	147.28	12.00	11.99	0.56
12,486.97	67.47	178.69	12,358.54	-143.13	313.04	158.27	12.00	11.99	0.54
FTP (Ophelia 22 Fed Com #705H)									
12,500.00	69.03	178.76	12,363.36	-155.22	313.31	170.37	12.00	11.99	0.53
12,525.00	72.03	178.89	12,371.69	-178.79	313.79	193.93	12.00	11.99	0.51
12,550.00	75.03	179.01	12,378.78	-202.75	314.23	217.89	12.00	11.99	0.49
12,575.00	78.03	179.13	12,384.60	-227.06	314.63	242.18	12.00	11.99	0.48
12,600.00	81.02	179.25	12,389.15	-251.64	314.97	266.75	12.00	11.99	0.47
12,625.00	84.02	179.36	12,392.40	-276.42	315.27	291.52	12.00	11.99	0.46
12,650.00	87.02	179.48	12,394.35	-301.34	315.53	316.42	12.00	11.99	0.46
12,674.86	90.00	179.59	12,395.00	-326.18	315.73	341.24	12.00	11.99	0.45
12,700.00	90.00	179.59	12,395.00	-351.33	315.91	366.36	0.00	0.00	0.00
12,800.00	90.00	179.59	12,395.00	-451.32	316.62	466.28	0.00	0.00	0.00
12,900.00	90.00	179.59	12,395.00	-551.32	317.34	566.19	0.00	0.00	0.00
13,000.00	90.00	179.59	12,395.00	-651.32	318.06	666.10	0.00	0.00	0.00
13,100.00	90.00	179.59	12,395.00	-751.32	318.77	766.02	0.00	0.00	0.00
13,200.00	90.00	179.59	12,395.00	-851.31	319.49	865.93	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: #705H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3320.00usft
 MD Reference: KB = 25' @ 3320.00usft
 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	179.59	12,395.00	-951.31	320.20	965.84	0.00	0.00	0.00
13,400.00	90.00	179.59	12,395.00	-1,051.31	320.92	1,065.75	0.00	0.00	0.00
13,500.00	90.00	179.59	12,395.00	-1,151.31	321.63	1,165.67	0.00	0.00	0.00
13,600.00	90.00	179.59	12,395.00	-1,251.30	322.35	1,265.58	0.00	0.00	0.00
13,700.00	90.00	179.59	12,395.00	-1,351.30	323.06	1,365.49	0.00	0.00	0.00
13,800.00	90.00	179.59	12,395.00	-1,451.30	323.78	1,465.40	0.00	0.00	0.00
13,900.00	90.00	179.59	12,395.00	-1,551.30	324.50	1,565.32	0.00	0.00	0.00
14,000.00	90.00	179.59	12,395.00	-1,651.29	325.21	1,665.23	0.00	0.00	0.00
14,100.00	90.00	179.59	12,395.00	-1,751.29	325.93	1,765.14	0.00	0.00	0.00
14,200.00	90.00	179.59	12,395.00	-1,851.29	326.64	1,865.05	0.00	0.00	0.00
14,300.00	90.00	179.59	12,395.00	-1,951.29	327.36	1,964.97	0.00	0.00	0.00
14,400.00	90.00	179.59	12,395.00	-2,051.28	328.07	2,064.88	0.00	0.00	0.00
14,500.00	90.00	179.59	12,395.00	-2,151.28	328.79	2,164.79	0.00	0.00	0.00
14,600.00	90.00	179.59	12,395.00	-2,251.28	329.50	2,264.71	0.00	0.00	0.00
14,700.00	90.00	179.59	12,395.00	-2,351.28	330.22	2,364.62	0.00	0.00	0.00
14,800.00	90.00	179.59	12,395.00	-2,451.27	330.94	2,464.53	0.00	0.00	0.00
14,900.00	90.00	179.59	12,395.00	-2,551.27	331.65	2,564.44	0.00	0.00	0.00
15,000.00	90.00	179.59	12,395.00	-2,651.27	332.37	2,664.36	0.00	0.00	0.00
15,100.00	90.00	179.59	12,395.00	-2,751.27	333.08	2,764.27	0.00	0.00	0.00
15,200.00	90.00	179.59	12,395.00	-2,851.26	333.80	2,864.18	0.00	0.00	0.00
15,300.00	90.00	179.59	12,395.00	-2,951.26	334.51	2,964.09	0.00	0.00	0.00
15,400.00	90.00	179.59	12,395.00	-3,051.26	335.23	3,064.01	0.00	0.00	0.00
15,500.00	90.00	179.59	12,395.00	-3,151.26	335.94	3,163.92	0.00	0.00	0.00
15,600.00	90.00	179.59	12,395.00	-3,251.25	336.66	3,263.83	0.00	0.00	0.00
15,700.00	90.00	179.59	12,395.00	-3,351.25	337.38	3,363.74	0.00	0.00	0.00
15,800.00	90.00	179.59	12,395.00	-3,451.25	338.09	3,463.66	0.00	0.00	0.00
15,900.00	90.00	179.59	12,395.00	-3,551.25	338.81	3,563.57	0.00	0.00	0.00
16,000.00	90.00	179.59	12,395.00	-3,651.24	339.52	3,663.48	0.00	0.00	0.00
16,100.00	90.00	179.59	12,395.00	-3,751.24	340.24	3,763.40	0.00	0.00	0.00
16,200.00	90.00	179.59	12,395.00	-3,851.24	340.95	3,863.31	0.00	0.00	0.00
16,300.00	90.00	179.59	12,395.00	-3,951.23	341.67	3,963.22	0.00	0.00	0.00
16,400.00	90.00	179.59	12,395.00	-4,051.23	342.39	4,063.13	0.00	0.00	0.00
16,500.00	90.00	179.59	12,395.00	-4,151.23	343.10	4,163.05	0.00	0.00	0.00
16,600.00	90.00	179.59	12,395.00	-4,251.23	343.82	4,262.96	0.00	0.00	0.00
16,700.00	90.00	179.59	12,395.00	-4,351.22	344.53	4,362.87	0.00	0.00	0.00
16,800.00	90.00	179.59	12,395.00	-4,451.22	345.25	4,462.78	0.00	0.00	0.00
16,900.00	90.00	179.59	12,395.00	-4,551.22	345.96	4,562.70	0.00	0.00	0.00
17,000.00	90.00	179.59	12,395.00	-4,651.22	346.68	4,662.61	0.00	0.00	0.00
17,100.00	90.00	179.59	12,395.00	-4,751.21	347.39	4,762.52	0.00	0.00	0.00
17,200.00	90.00	179.59	12,395.00	-4,851.21	348.11	4,862.43	0.00	0.00	0.00
17,300.00	90.00	179.59	12,395.00	-4,951.21	348.83	4,962.35	0.00	0.00	0.00
17,400.00	90.00	179.59	12,395.00	-5,051.21	349.54	5,062.26	0.00	0.00	0.00
17,500.00	90.00	179.59	12,395.00	-5,151.20	350.26	5,162.17	0.00	0.00	0.00
17,600.00	90.00	179.59	12,395.00	-5,251.20	350.97	5,262.09	0.00	0.00	0.00
17,700.00	90.00	179.59	12,395.00	-5,351.20	351.69	5,362.00	0.00	0.00	0.00
17,800.00	90.00	179.59	12,395.00	-5,451.20	352.40	5,461.91	0.00	0.00	0.00
17,900.00	90.00	179.59	12,395.00	-5,551.19	353.12	5,561.82	0.00	0.00	0.00
18,000.00	90.00	179.59	12,395.00	-5,651.19	353.83	5,661.74	0.00	0.00	0.00
18,100.00	90.00	179.59	12,395.00	-5,751.19	354.55	5,761.65	0.00	0.00	0.00
18,200.00	90.00	179.59	12,395.00	-5,851.19	355.27	5,861.56	0.00	0.00	0.00
18,300.00	90.00	179.59	12,395.00	-5,951.18	355.98	5,961.47	0.00	0.00	0.00
18,400.00	90.00	179.59	12,395.00	-6,051.18	356.70	6,061.39	0.00	0.00	0.00
18,500.00	90.00	179.59	12,395.00	-6,151.18	357.41	6,161.30	0.00	0.00	0.00
18,600.00	90.00	179.59	12,395.00	-6,251.18	358.13	6,261.21	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: #705H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3320.00usft
 MD Reference: KB = 25' @ 3320.00usft
 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	-6,351.17	358.84	6,361.12	0.00	0.00	0.00
18,800.00	90.00	179.59	12,395.00	-6,451.17	359.56	6,461.04	0.00	0.00	0.00
18,900.00	90.00	179.59	12,395.00	-6,551.17	360.27	6,560.95	0.00	0.00	0.00
19,000.00	90.00	179.59	12,395.00	-6,651.17	360.99	6,660.86	0.00	0.00	0.00
19,100.00	90.00	179.59	12,395.00	-6,751.16	361.71	6,760.78	0.00	0.00	0.00
19,200.00	90.00	179.59	12,395.00	-6,851.16	362.42	6,860.69	0.00	0.00	0.00
19,300.00	90.00	179.59	12,395.00	-6,951.16	363.14	6,960.60	0.00	0.00	0.00
19,400.00	90.00	179.59	12,395.00	-7,051.16	363.85	7,060.51	0.00	0.00	0.00
19,500.00	90.00	179.59	12,395.00	-7,151.15	364.57	7,160.43	0.00	0.00	0.00
19,600.00	90.00	179.59	12,395.00	-7,251.15	365.28	7,260.34	0.00	0.00	0.00
19,700.00	90.00	179.59	12,395.00	-7,351.15	366.00	7,360.25	0.00	0.00	0.00
19,800.00	90.00	179.59	12,395.00	-7,451.15	366.71	7,460.16	0.00	0.00	0.00
19,839.86	90.00	179.59	12,395.00	-7,491.00	367.00	7,499.98	0.00	0.00	0.00

PBHL (Ophelia 22 Fed Com #705H)

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									
PBHL (Ophelia 22 Fed C	0.00	0.00	12,395.00	-7,491.00	367.00	370,068.00	779,317.00	32.01507300	-103.56551248
- plan hits target center									
- Point									
FTP (Ophelia 22 Fed Cc	0.00	0.00	12,395.00	-128.00	315.00	377,431.00	779,265.00	32.03531303	-103.56551142
- plan misses target center by 39.53usft at 12486.97usft MD (12358.54 TVD, -143.13 N, 313.04 E)									
- Point									

EXHIBIT 6

SECTION 22, TOWNSHIP 36-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



Top of pad elevation 3294.6023
Cut Slope: 33.33% 3,000:1 18.43"
Fill Slope: 33.33% 3,000:1 18.43"
Balance Tolerance (C.Y.) 0.00
Cut Swell Factor 1.00
Fill Shrink Factor 1.00

Pad Earthwork Volumes
Cut 249,073.0 C.Y. 9,224.93 C.Y.
Fill 249,073.0 C.Y. 9,224.93 C.Y.
Area 202111.7 Sq.Ft. 4.640 Acres



1400 EVERMAN PARKWAY, Ste 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

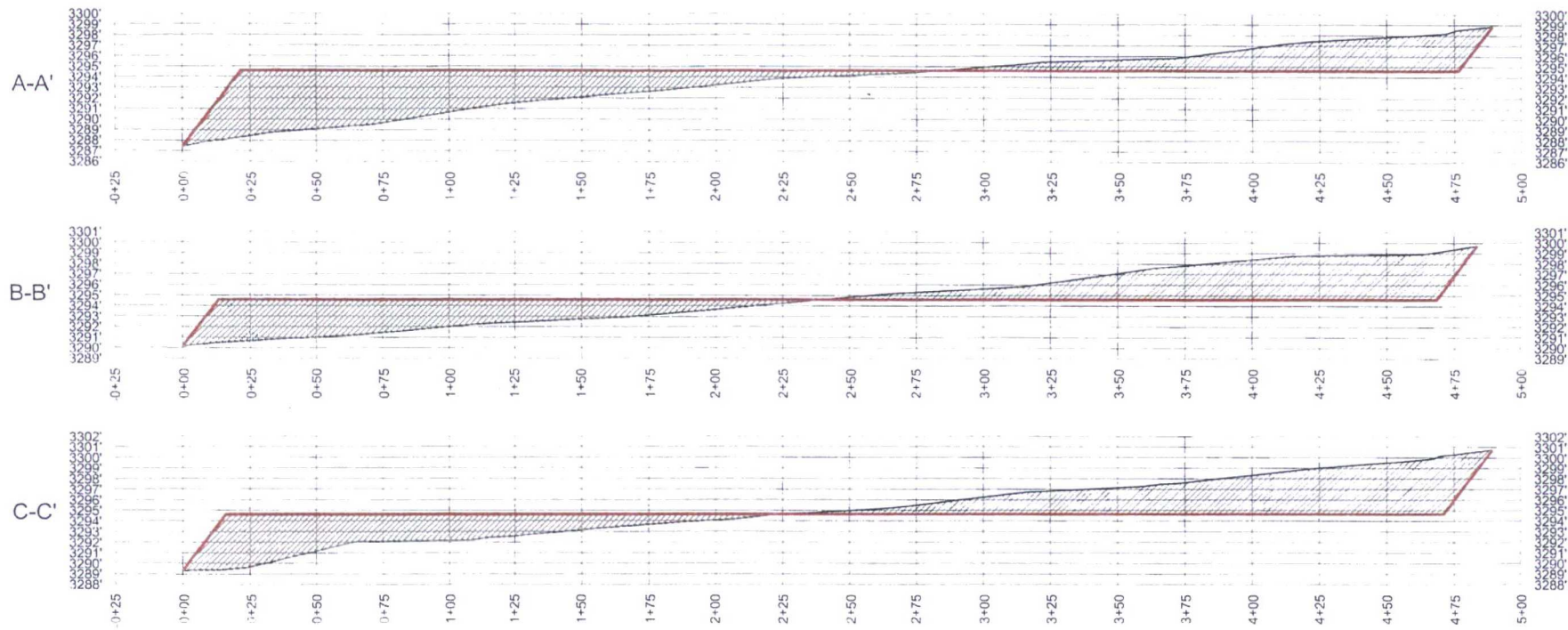
OPHELIA 22 FED COM #704H & #705H SITE	REVISION:		NOTES:
	INT	DATE	
DATE: 03/02/17			1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927 3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
FILE: CD_OPHELIA_22_FED_COM_704H_705H_SITE			
DRAWN BY: GJU			
SHEET: 1 OF 2			

Michael Blake Brown, P.S. No. 18329
MARCH 2, 2017

Field note description of even date accompanies this plat.

PRELIMINARY

SECTION 22, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



Horizontal Scale = 1" = 60'
Vertical Scale = 1" = 5'



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
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OPHELIA 22 FED COM #704H & #705H SITE	REVISION:		1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927. 3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY. WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
	INT	DATE	
DATE: 03/02/17			
FILE: CD_OPHELIA_22_FED_COM_704H_705H_SITE			
DRAWN BY: GJU			
SHEET: 2 OF 2			

Michael Blake Brown, P.S. No. 18329
MARCH 2, 2017
Field note description of even date accompanies this plat.