

Permit Information:

Well Name: Ophelia 22 No. 705H

30-025-42643

Location:

SL: 2410' FSL & 2448' FEL, Section 22, T-26-S, R-33-E, Lea Co., N.M.

BHL: 2591' FNL & 2566' FEL, Section 27, T-26-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0 - 1,100'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
8.75"	0-10,750'	7.625"	29.7#	HCP-110	LTC	1.125	1.25	1.60
6.125"	0'-17,781'	4.5"	13.5#	HCP-110	BTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,100'	600	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
10,750' DV Tool @ 5,000'	350	10.8	3.68	Stage 1 Lead: Class C + 5% Gypsum + 30 pps SFA + 0.4% CPT-503P + 3.5% CPT-45 + 0.25% CPT-35 + 0.85% CPT-20 + 0.85% Citric Acid (TOC @ Surface)
	250	15.6	1.18	Stage 1 Tail: Class H + 0.2% CPT-51 + 0.3% CPT-20
	650	12.7	1.90	Stage 2 Lead: Class C + 3% Salt + 0.6% Gel + 0.5% CPT-45 + 0.1% CPT-20 + 0.1% Citric Acid (TOC @ Surface)
	200	14.8	1.33	Stage 2 Tail: Class C + 0.2% CPT-19
17,381'	600	13.5	1.51	Class H + 3% Salt + 1% Bentonite + 0.35% CPT-19 + 0.80% CPT-15 + 0.25% CPT-503P + 0.40% CPT-35 (TOC @ 10,250')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,100'	Fresh - Gel	8.6-8.8	28-34	N/c
1,100' - 10,750'	Oil Base	8.7-9.4	58-68	N/c - 6
10,750' - 11,855'	Oil Base	8.7-9.4	58-68	N/c - 6
11,855' - 17,381' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

JUN 17 2015

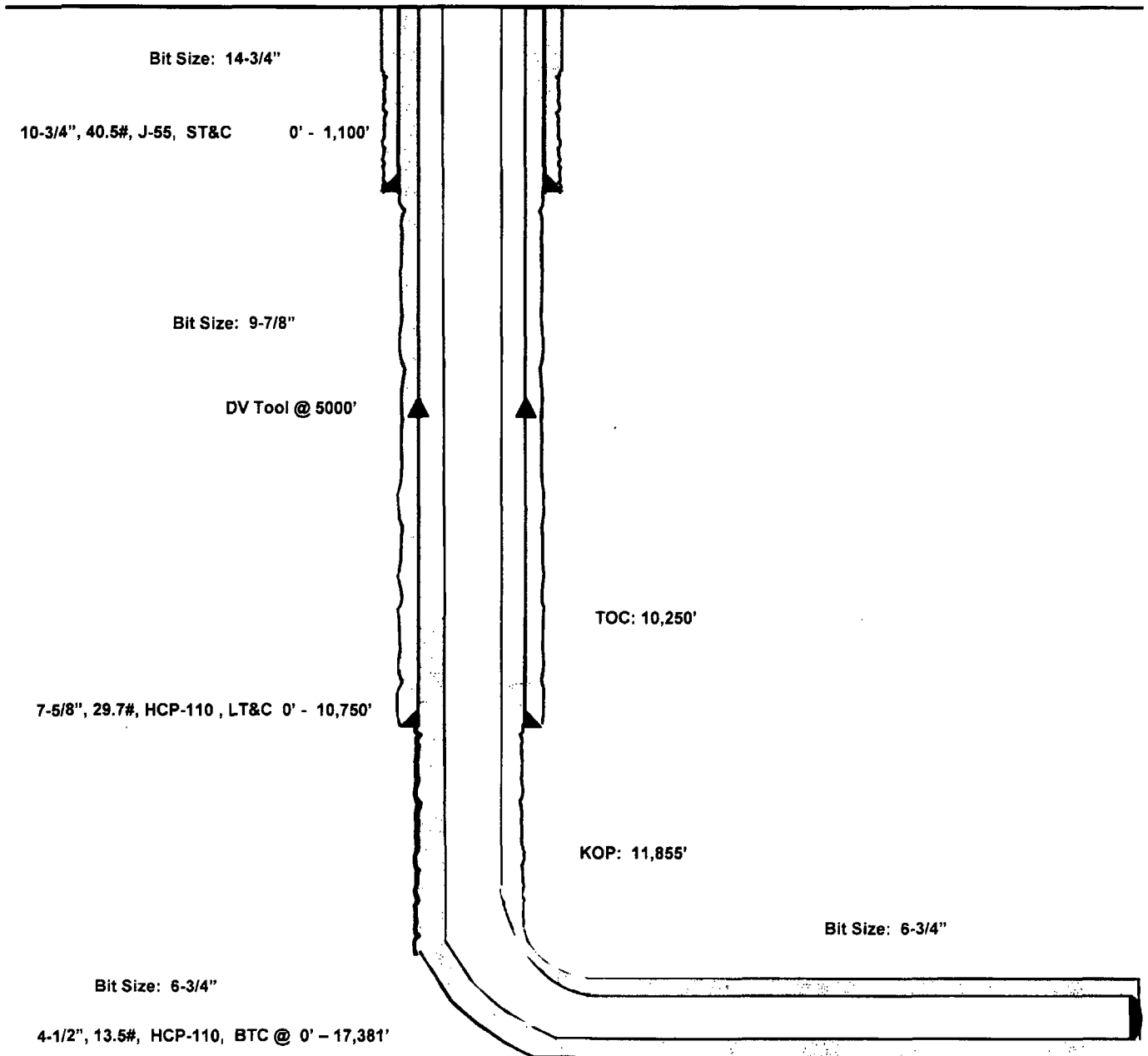
Ophelia 22 #705H

**Lea County, New Mexico
Proposed Wellbore**

**2410' FSL
2448' FEL
Section 22
T-26-S, R-33-E**

API: 30-025-*****

**KB: 3,307'
GL: 3,282'**



Lateral: 17,381' MD, 12,440' TVD

BH Location: 2591' FNL & 2566' FEL
Section 27
T-26-S, R-33-E



Lea County, NM (NAD 27 NME)

Ophelia 22 #705H

Precision 612

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #705H

Ground Level: 3282.0
KB = 28 @ 3307.0ush (Precision 612)
Northing: 374845.00 Easting: 739946.00 Latitude: 32° 1' 41.516 N Longitude: 103° 33' 32.968 W



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.89°

Magnetic Field
Strength: 47853.5anT
Dip Angle: 55.90°
Date: 11/25/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.89°
To convert a Magnetic Direction to a True Direction, Add 7.10° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

SECTION DETAILS

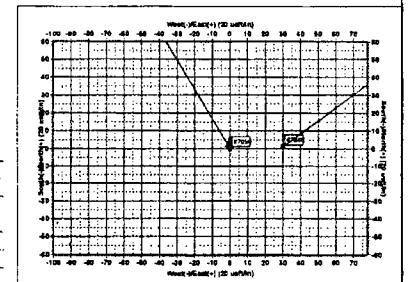
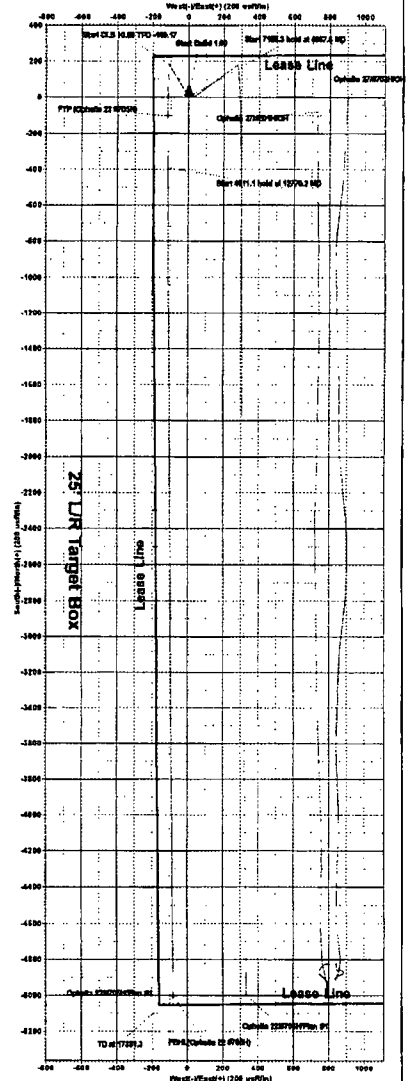
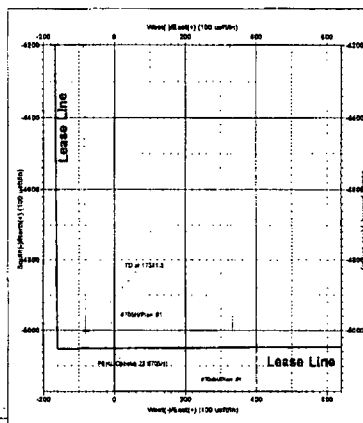
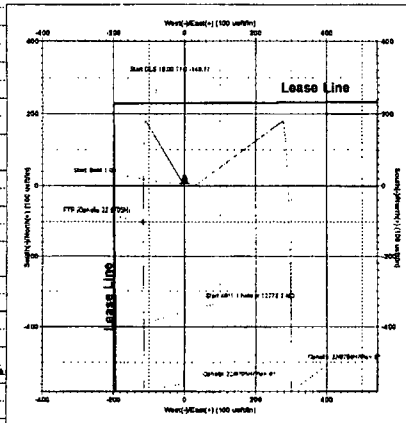
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4867.6	1.68	328.76	4867.5	2.1	-1.3	1.00	328.76	-2.1	
4	11855.8	1.68	328.76	11852.7	181.8	-110.3	0.00	0.00	-180.0	
5	12770.2	90.00	179.58	12440.0	-391.0	-114.9	10.00	-149.17	392.8	
6	17381.3	90.00	179.58	12440.0	-5002.0	-81.0	0.00	0.00	5002.7	PBHL(Ophelia 22 #705H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PTP (Ophelia 22 #705H)	12440.0	-101.0	-117.0	374746.00	739829.00
PBHL (Ophelia 22 #705H)	12440.0	-5002.0	-81.0	369843.00	739866.00



Vertical Section at 100.83° (200' width)



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Ophelia 22

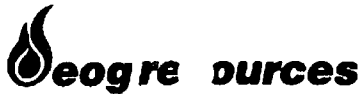
#705H

OH

Plan: Plan #1

Standard Planning Report

09 June, 2015



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Ophelia 22
Well: #705H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25 @ 3307.0usft (Precision 612)
MD Reference: KB = 25 @ 3307.0usft (Precision 612)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Ophelia 22			
Site Position:		Northing:	374,846.00 usft	Latitude: 32° 1' 41.528 N
From:	Map	Easting:	739,976.00 usft	Longitude: 103° 33' 32.318 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.41 °

Well	#705H			
Well Position	+N/-S	-1.0 usft	Northing: 374,845.00 usft	Latitude: 32° 1' 41.518 N
	+E/-W	-30.0 usft	Easting: 739,946.00 usft	Longitude: 103° 33' 32.666 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,282.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/25/2015	7.10	59.90	47,984

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.93

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,667.6	1.68	328.76	4,667.5	2.1	-1.3	1.00	1.00	0.00	328.76	
11,855.8	1.68	328.76	11,852.7	181.8	-110.3	0.00	0.00	0.00	0.00	
12,770.2	90.00	179.58	12,440.0	-391.0	-114.9	10.00	9.66	-16.31	-149.17	
17,381.3	90.00	179.58	12,440.0	-5,002.0	-81.0	0.00	0.00	0.00	0.00	PBHL(Ophelia 22 #7C



EOG Resources, Inc.

Planning Report

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Project: Lea County, NM (NAD 27 NME)
Site: Ophelia 22
Well: #705H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25 @ 3307.0usft (Precision 612)
MD Reference: KB = 25 @ 3307.0usft (Precision 612)
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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	328.76	4,600.0	0.7	-0.5	-0.7	1.00	1.00	0.00
4,667.6	1.68	328.76	4,667.5	2.1	-1.3	-2.1	1.00	1.00	0.00
4,700.0	1.68	328.76	4,700.0	2.9	-1.8	-2.9	0.00	0.00	0.00
4,800.0	1.68	328.76	4,799.9	5.4	-3.3	-5.4	0.00	0.00	0.00
4,900.0	1.68	328.76	4,899.9	7.9	-4.8	-7.8	0.00	0.00	0.00
5,000.0	1.68	328.76	4,999.8	10.4	-6.3	-10.3	0.00	0.00	0.00
5,100.0	1.68	328.76	5,099.8	12.9	-7.8	-12.8	0.00	0.00	0.00
5,200.0	1.68	328.76	5,199.7	15.4	-9.3	-15.3	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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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)
5,300.0	1.68	328.76	5,299.7	17.9	-10.9	-17.7	0.00	0.00	0.00
5,400.0	1.68	328.76	5,399.7	20.4	-12.4	-20.2	0.00	0.00	0.00
5,500.0	1.68	328.76	5,499.6	22.9	-13.9	-22.7	0.00	0.00	0.00
5,600.0	1.68	328.76	5,599.6	25.4	-15.4	-25.2	0.00	0.00	0.00
5,700.0	1.68	328.76	5,699.5	27.9	-16.9	-27.6	0.00	0.00	0.00
5,800.0	1.68	328.76	5,799.5	30.4	-18.4	-30.1	0.00	0.00	0.00
5,900.0	1.68	328.76	5,899.4	32.9	-20.0	-32.6	0.00	0.00	0.00
6,000.0	1.68	328.76	5,999.4	35.4	-21.5	-35.1	0.00	0.00	0.00
6,100.0	1.68	328.76	6,099.4	37.9	-23.0	-37.5	0.00	0.00	0.00
6,200.0	1.68	328.76	6,199.3	40.4	-24.5	-40.0	0.00	0.00	0.00
6,300.0	1.68	328.76	6,299.3	42.9	-26.0	-42.5	0.00	0.00	0.00
6,400.0	1.68	328.76	6,399.2	45.4	-27.5	-45.0	0.00	0.00	0.00
6,500.0	1.68	328.76	6,499.2	47.9	-29.1	-47.4	0.00	0.00	0.00
6,600.0	1.68	328.76	6,599.1	50.4	-30.6	-49.9	0.00	0.00	0.00
6,700.0	1.68	328.76	6,699.1	52.9	-32.1	-52.4	0.00	0.00	0.00
6,800.0	1.68	328.76	6,799.1	55.4	-33.6	-54.9	0.00	0.00	0.00
6,900.0	1.68	328.76	6,899.0	57.9	-35.1	-57.3	0.00	0.00	0.00
7,000.0	1.68	328.76	6,999.0	60.4	-36.6	-59.8	0.00	0.00	0.00
7,100.0	1.68	328.76	7,098.9	62.9	-38.2	-62.3	0.00	0.00	0.00
7,200.0	1.68	328.76	7,198.9	65.4	-39.7	-64.8	0.00	0.00	0.00
7,300.0	1.68	328.76	7,298.9	67.9	-41.2	-67.2	0.00	0.00	0.00
7,400.0	1.68	328.76	7,398.8	70.4	-42.7	-69.7	0.00	0.00	0.00
7,500.0	1.68	328.76	7,498.8	72.9	-44.2	-72.2	0.00	0.00	0.00
7,600.0	1.68	328.76	7,598.7	75.4	-45.7	-74.7	0.00	0.00	0.00
7,700.0	1.68	328.76	7,698.7	77.9	-47.3	-77.1	0.00	0.00	0.00
7,800.0	1.68	328.76	7,798.6	80.4	-48.8	-79.6	0.00	0.00	0.00
7,900.0	1.68	328.76	7,898.6	82.9	-50.3	-82.1	0.00	0.00	0.00
8,000.0	1.68	328.76	7,998.6	85.4	-51.8	-84.6	0.00	0.00	0.00
8,100.0	1.68	328.76	8,098.5	87.9	-53.3	-87.0	0.00	0.00	0.00
8,200.0	1.68	328.76	8,198.5	90.4	-54.8	-89.5	0.00	0.00	0.00
8,300.0	1.68	328.76	8,298.4	92.9	-56.4	-92.0	0.00	0.00	0.00
8,400.0	1.68	328.76	8,398.4	95.4	-57.9	-94.5	0.00	0.00	0.00
8,500.0	1.68	328.76	8,498.3	97.9	-59.4	-96.9	0.00	0.00	0.00
8,600.0	1.68	328.76	8,598.3	100.4	-60.9	-99.4	0.00	0.00	0.00
8,700.0	1.68	328.76	8,698.3	102.9	-62.4	-101.9	0.00	0.00	0.00
8,800.0	1.68	328.76	8,798.2	105.4	-63.9	-104.4	0.00	0.00	0.00
8,900.0	1.68	328.76	8,898.2	107.9	-65.5	-106.8	0.00	0.00	0.00
9,000.0	1.68	328.76	8,998.1	110.4	-67.0	-109.3	0.00	0.00	0.00
9,100.0	1.68	328.76	9,098.1	112.9	-68.5	-111.8	0.00	0.00	0.00
9,200.0	1.68	328.76	9,198.0	115.4	-70.0	-114.3	0.00	0.00	0.00
9,300.0	1.68	328.76	9,298.0	117.9	-71.5	-116.7	0.00	0.00	0.00
9,400.0	1.68	328.76	9,398.0	120.4	-73.0	-119.2	0.00	0.00	0.00
9,500.0	1.68	328.76	9,497.9	122.9	-74.6	-121.7	0.00	0.00	0.00
9,600.0	1.68	328.76	9,597.9	125.4	-76.1	-124.2	0.00	0.00	0.00
9,700.0	1.68	328.76	9,697.8	127.9	-77.6	-126.6	0.00	0.00	0.00
9,800.0	1.68	328.76	9,797.8	130.4	-79.1	-129.1	0.00	0.00	0.00
9,900.0	1.68	328.76	9,897.7	132.9	-80.6	-131.6	0.00	0.00	0.00
10,000.0	1.68	328.76	9,997.7	135.4	-82.1	-134.1	0.00	0.00	0.00
10,100.0	1.68	328.76	10,097.7	137.9	-83.6	-136.5	0.00	0.00	0.00
10,200.0	1.68	328.76	10,197.6	140.4	-85.2	-139.0	0.00	0.00	0.00
10,300.0	1.68	328.76	10,297.6	142.9	-86.7	-141.5	0.00	0.00	0.00
10,400.0	1.68	328.76	10,397.5	145.4	-88.2	-144.0	0.00	0.00	0.00
10,500.0	1.68	328.76	10,497.5	147.9	-89.7	-146.4	0.00	0.00	0.00
10,600.0	1.68	328.76	10,597.4	150.4	-91.2	-148.9	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 27 NME)
Site: Ophelia 22
Well: #705H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25 @ 3307.0usft (Precision 612)
MD Reference: KB = 25 @ 3307.0usft (Precision 612)
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)
10,700.0	1.68	328.76	10,697.4	152.9	-92.7	-151.4	0.00	0.00	0.00
10,800.0	1.68	328.76	10,797.4	155.4	-94.3	-153.9	0.00	0.00	0.00
10,900.0	1.68	328.76	10,897.3	157.9	-95.8	-156.3	0.00	0.00	0.00
11,000.0	1.68	328.76	10,997.3	160.4	-97.3	-158.8	0.00	0.00	0.00
11,100.0	1.68	328.76	11,097.2	162.9	-98.8	-161.3	0.00	0.00	0.00
11,200.0	1.68	328.76	11,197.2	165.4	-100.3	-163.8	0.00	0.00	0.00
11,300.0	1.68	328.76	11,297.1	167.9	-101.8	-166.2	0.00	0.00	0.00
11,400.0	1.68	328.76	11,397.1	170.4	-103.4	-168.7	0.00	0.00	0.00
11,500.0	1.68	328.76	11,497.1	172.9	-104.9	-171.2	0.00	0.00	0.00
11,600.0	1.68	328.76	11,597.0	175.4	-106.4	-173.7	0.00	0.00	0.00
11,700.0	1.68	328.76	11,697.0	177.9	-107.9	-176.1	0.00	0.00	0.00
11,800.0	1.68	328.76	11,796.9	180.4	-109.4	-178.6	0.00	0.00	0.00
11,855.8	1.68	328.76	11,852.7	181.8	-110.3	-180.0	0.00	0.00	0.00
11,900.0	3.10	195.64	11,896.9	181.2	-110.9	-179.4	10.00	3.23	-301.30
11,950.0	8.03	185.68	11,946.6	176.4	-111.6	-174.6	10.00	9.85	-19.92
12,000.0	13.01	183.30	11,995.8	167.3	-112.3	-165.5	10.00	9.96	-4.76
12,050.0	18.00	182.22	12,043.9	154.0	-112.9	-152.1	10.00	9.98	-2.15
12,100.0	22.99	181.60	12,090.8	136.5	-113.5	-134.6	10.00	9.99	-1.24
12,150.0	27.99	181.19	12,135.9	115.0	-114.0	-113.1	10.00	9.99	-0.82
12,200.0	32.99	180.90	12,179.0	89.6	-114.5	-87.8	10.00	10.00	-0.59
12,250.0	37.99	180.68	12,219.7	60.6	-114.9	-58.7	10.00	10.00	-0.45
12,300.0	42.99	180.50	12,257.7	28.2	-115.2	-26.3	10.00	10.00	-0.36
12,350.0	47.99	180.35	12,292.7	-7.5	-115.5	9.3	10.00	10.00	-0.30
12,400.0	52.98	180.23	12,324.5	-46.0	-115.7	47.9	10.00	10.00	-0.25
12,450.0	57.98	180.12	12,352.8	-87.2	-115.8	89.1	10.00	10.00	-0.22
12,500.0	62.98	180.02	12,377.5	-130.7	-115.8	132.6	10.00	10.00	-0.20
FTP (Ophelia 22 #705H)									
12,550.0	67.98	179.93	12,398.2	-176.2	-115.8	178.1	10.00	10.00	-0.18
12,600.0	72.98	179.84	12,414.9	-223.3	-115.7	225.2	10.00	10.00	-0.17
12,650.0	77.98	179.76	12,427.4	-271.7	-115.6	273.5	10.00	10.00	-0.16
12,700.0	82.98	179.68	12,435.7	-321.0	-115.3	322.8	10.00	10.00	-0.15
12,750.0	87.98	179.61	12,439.6	-370.8	-115.0	372.6	10.00	10.00	-0.15
12,770.2	90.00	179.58	12,440.0	-391.0	-114.9	392.8	10.00	10.00	-0.15
12,800.0	90.00	179.58	12,440.0	-420.8	-114.7	422.6	0.00	0.00	0.00
12,900.0	90.00	179.58	12,440.0	-520.8	-113.9	522.6	0.00	0.00	0.00
13,000.0	90.00	179.58	12,440.0	-620.8	-113.2	622.6	0.00	0.00	0.00
13,100.0	90.00	179.58	12,440.0	-720.8	-112.4	722.5	0.00	0.00	0.00
13,200.0	90.00	179.58	12,440.0	-820.8	-111.7	822.5	0.00	0.00	0.00
13,300.0	90.00	179.58	12,440.0	-920.8	-111.0	922.5	0.00	0.00	0.00
13,400.0	90.00	179.58	12,440.0	-1,020.8	-110.2	1,022.5	0.00	0.00	0.00
13,500.0	90.00	179.58	12,440.0	-1,120.8	-109.5	1,122.4	0.00	0.00	0.00
13,600.0	90.00	179.58	12,440.0	-1,220.8	-108.8	1,222.4	0.00	0.00	0.00
13,700.0	90.00	179.58	12,440.0	-1,320.8	-108.0	1,322.4	0.00	0.00	0.00
13,800.0	90.00	179.58	12,440.0	-1,420.8	-107.3	1,422.3	0.00	0.00	0.00
13,900.0	90.00	179.58	12,440.0	-1,520.8	-106.6	1,522.3	0.00	0.00	0.00
14,000.0	90.00	179.58	12,440.0	-1,620.8	-105.8	1,622.3	0.00	0.00	0.00
14,100.0	90.00	179.58	12,440.0	-1,720.8	-105.1	1,722.3	0.00	0.00	0.00
14,200.0	90.00	179.58	12,440.0	-1,820.8	-104.4	1,822.2	0.00	0.00	0.00
14,300.0	90.00	179.58	12,440.0	-1,920.8	-103.6	1,922.2	0.00	0.00	0.00
14,400.0	90.00	179.58	12,440.0	-2,020.8	-102.9	2,022.2	0.00	0.00	0.00
14,500.0	90.00	179.58	12,440.0	-2,120.8	-102.2	2,122.1	0.00	0.00	0.00
14,600.0	90.00	179.58	12,440.0	-2,220.8	-101.4	2,222.1	0.00	0.00	0.00
14,700.0	90.00	179.58	12,440.0	-2,320.8	-100.7	2,322.1	0.00	0.00	0.00



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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)
14,800.0	90.00	179.58	12,440.0	-2,420.8	-100.0	2,422.1	0.00	0.00	0.00
14,900.0	90.00	179.58	12,440.0	-2,520.8	-99.2	2,522.0	0.00	0.00	0.00
15,000.0	90.00	179.58	12,440.0	-2,620.8	-98.5	2,622.0	0.00	0.00	0.00
15,100.0	90.00	179.58	12,440.0	-2,720.8	-97.8	2,722.0	0.00	0.00	0.00
15,200.0	90.00	179.58	12,440.0	-2,820.8	-97.0	2,822.0	0.00	0.00	0.00
15,300.0	90.00	179.58	12,440.0	-2,920.7	-96.3	2,921.9	0.00	0.00	0.00
15,400.0	90.00	179.58	12,440.0	-3,020.7	-95.6	3,021.9	0.00	0.00	0.00
15,500.0	90.00	179.58	12,440.0	-3,120.7	-94.8	3,121.9	0.00	0.00	0.00
15,600.0	90.00	179.58	12,440.0	-3,220.7	-94.1	3,221.8	0.00	0.00	0.00
15,700.0	90.00	179.58	12,440.0	-3,320.7	-93.3	3,321.8	0.00	0.00	0.00
15,800.0	90.00	179.58	12,440.0	-3,420.7	-92.6	3,421.8	0.00	0.00	0.00
15,900.0	90.00	179.58	12,440.0	-3,520.7	-91.9	3,521.8	0.00	0.00	0.00
16,000.0	90.00	179.58	12,440.0	-3,620.7	-91.1	3,621.7	0.00	0.00	0.00
16,100.0	90.00	179.58	12,440.0	-3,720.7	-90.4	3,721.7	0.00	0.00	0.00
16,200.0	90.00	179.58	12,440.0	-3,820.7	-89.7	3,821.7	0.00	0.00	0.00
16,300.0	90.00	179.58	12,440.0	-3,920.7	-88.9	3,921.6	0.00	0.00	0.00
16,400.0	90.00	179.58	12,440.0	-4,020.7	-88.2	4,021.6	0.00	0.00	0.00
16,500.0	90.00	179.58	12,440.0	-4,120.7	-87.5	4,121.6	0.00	0.00	0.00
16,600.0	90.00	179.58	12,440.0	-4,220.7	-86.7	4,221.6	0.00	0.00	0.00
16,700.0	90.00	179.58	12,440.0	-4,320.7	-86.0	4,321.5	0.00	0.00	0.00
16,800.0	90.00	179.58	12,440.0	-4,420.7	-85.3	4,421.5	0.00	0.00	0.00
16,900.0	90.00	179.58	12,440.0	-4,520.7	-84.5	4,521.5	0.00	0.00	0.00
17,000.0	90.00	179.58	12,440.0	-4,620.7	-83.8	4,621.5	0.00	0.00	0.00
17,100.0	90.00	179.58	12,440.0	-4,720.7	-83.1	4,721.4	0.00	0.00	0.00
17,200.0	90.00	179.58	12,440.0	-4,820.7	-82.3	4,821.4	0.00	0.00	0.00
17,300.0	90.00	179.58	12,440.0	-4,920.7	-81.6	4,921.4	0.00	0.00	0.00
17,381.3	90.00	179.58	12,440.0	-5,002.0	-81.0	5,002.7	0.00	0.00	0.00

PBHL(Ophelia 22 #705H)

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 #705H) - plan misses target center by 69.2usft at 12500.0usft MD (12377.5 TVD, -130.7 N, -115.8 E) - Point	0.00	0.00	12,440.0	-101.0	-117.0	374,744.00	739,829.00	32° 1' 40.527 N	103° 33' 34.034 W
PBHL(Ophelia 22 #705H) - plan hits target center - Point	0.00	0.00	12,440.0	-5,002.0	-81.0	369,843.00	739,865.00	32° 0' 52.025 N	103° 33' 34.023 W