

Permit Information:

Well Name: Ophelia 22 No. 704H

30-025-42042

Location:

SL: 2410' FSL & 2418' FEL, Section 22, T-26-S, R-33-E, Lea Co., N.M.

BHL: 2591' FNL & 2152' 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'-17,739'	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
17,379'	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' - 11,859'	Oil Base	8.7-9.4	58-68	N/c - 6
11,859' - 17,379' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

JUN 17 2015

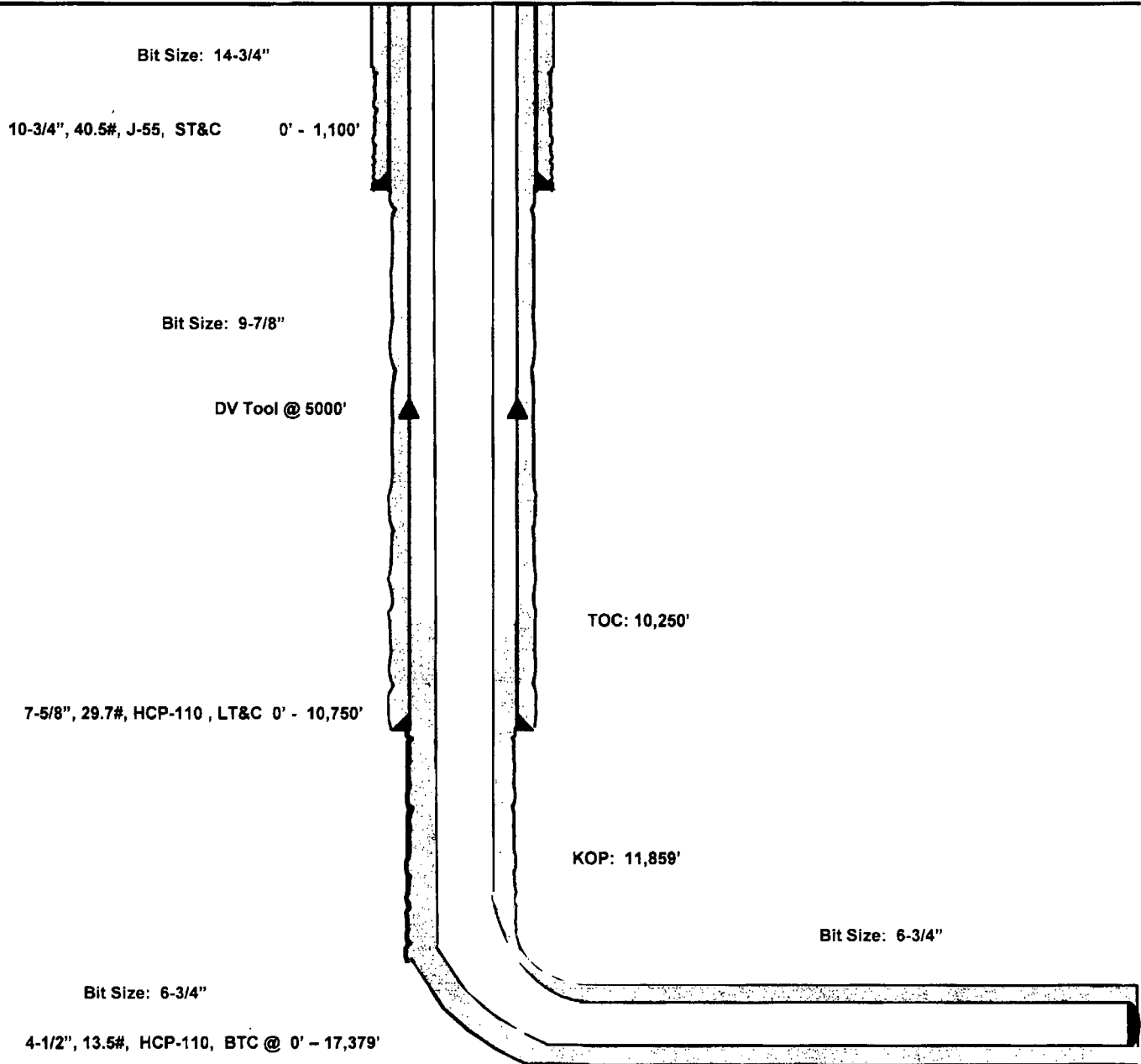
Ophelia 22 #704H

Lea County, New Mexico
Proposed Wellbore

2410' FSL
2418' FEL
Section 22
T-26-S, R-33-E

API: 30-025-*****

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



Lateral: 17,379' MD, 12,440' TVD

BH Location: 2410' FNL & 2152' FEL
Section 27
T-26-S, R-33-E



Lea County, NM (NAD 27 NME)

Ophelia 22 #704H

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: #704H

Ground Level: 3282.0
KB = 25 @ 3307.0mR (Precision 612)
Northing: 374846.00 Easting: 739976.00 Latitude: 32° 1' 41.526 N Longitude: 103° 33' 32.318 W



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.70°
Magnetic Field
Strength: 47991.0nT
Dip Angle: 66.90°
Date: 10/11/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.70°
To convert a Magnetic Direction to a True Direction, Add 7.11° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

SECTION DETAILS

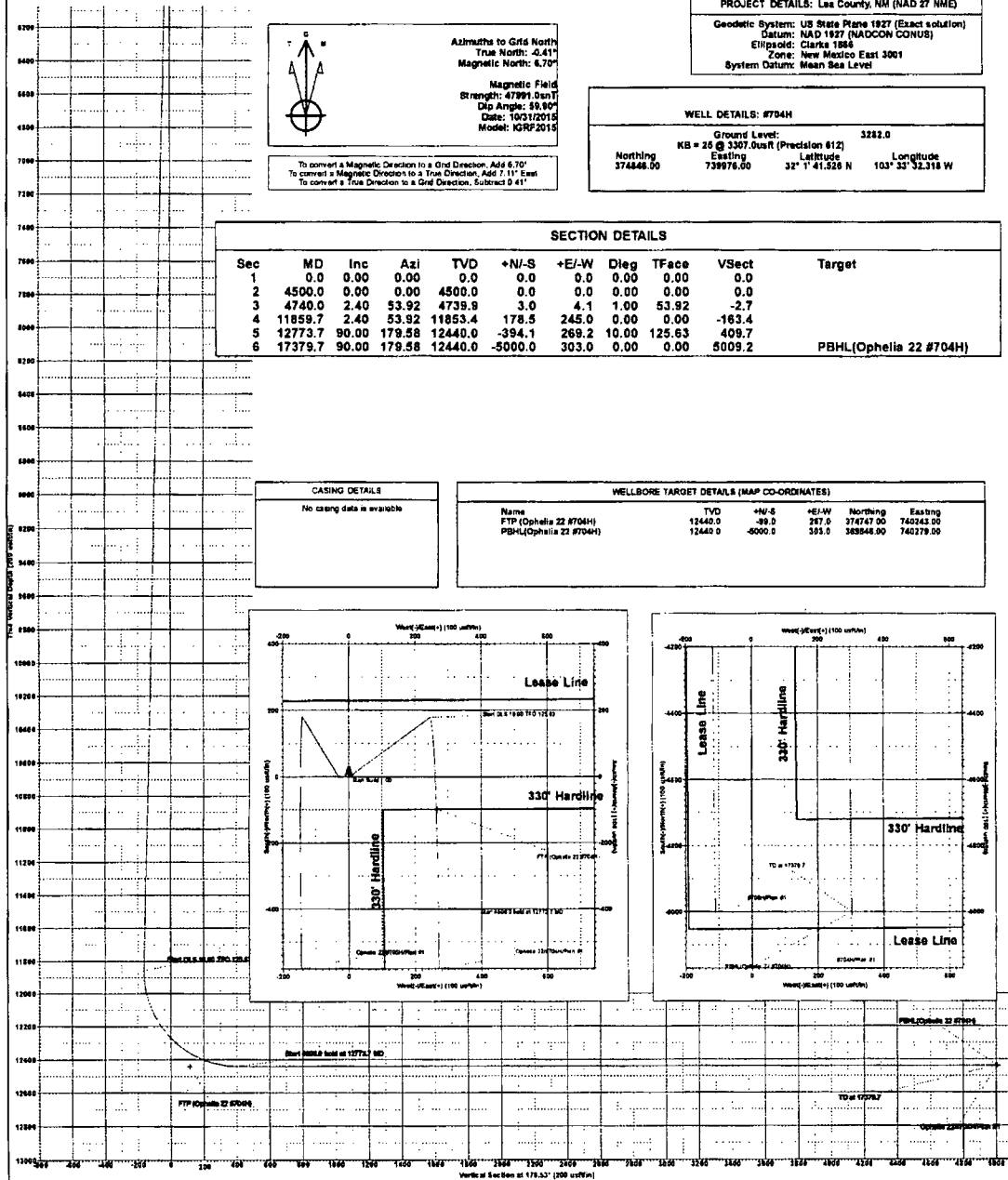
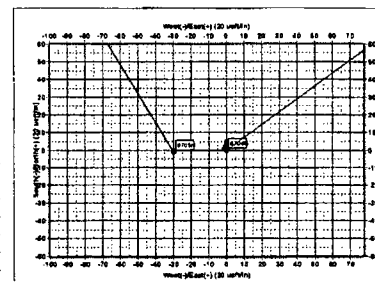
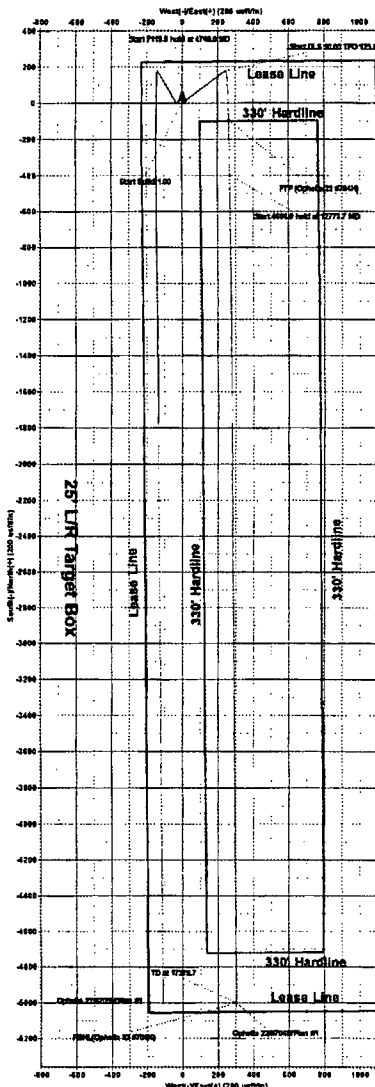
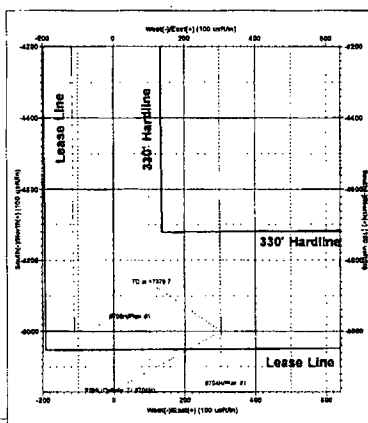
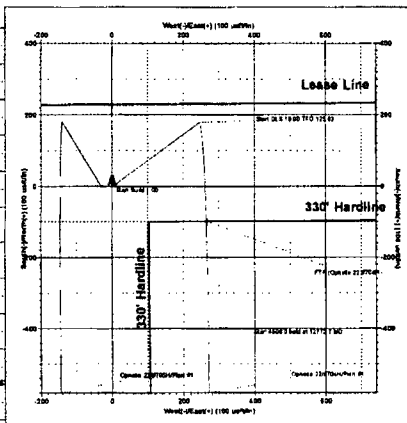
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4740.0	2.40	53.92	4739.9	3.0	4.1	1.00	53.92	-2.7	
4	11859.7	2.40	53.92	11853.4	178.5	245.0	0.00	0.00	-163.4	
5	12773.7	90.00	179.58	12440.0	-394.1	269.2	10.00	125.63	409.7	
6	17379.7	90.00	179.58	12440.0	-5000.0	303.0	0.00	0.00	5009.2	PBHL(Ophelia 22 #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 #704H)	12440.0	-89.0	267.0	374747.00	740243.00
PBHL(Ophelia 22 #704H)	12440.0	-6000.0	325.0	369846.00	740279.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Ophelia 22

#704H

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: #704H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3307.0usft (Precision 812)
MD Reference: KB = 25 @ 3307.0usft (Precision 812)
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' 41.526 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	#704H			
Well Position	+N/-S	0.0 usft	Northing: 374,846.00 usft	Latitude: 32° 1' 41.526 N
	+E/-W	0.0 usft	Easting: 739,976.00 usft	Longitude: 103° 33' 32.318 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	10/31/2015	7.11	59.90	47,991

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	176.53

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	
4,740.0	2.40	53.92	4,739.9	3.0	4.1	1.00	1.00	0.00	53.92	
11,859.7	2.40	53.92	11,853.4	178.5	245.0	0.00	0.00	0.00	0.00	
12,773.7	90.00	179.58	12,440.0	-394.1	269.2	10.00	9.58	13.75	125.63	
17,379.7	90.00	179.58	12,440.0	-5,000.0	303.0	0.00	0.00	0.00	0.00	PBHL(Ophelia 22 #70



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: #704H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #704H
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	53.92	4,600.0	0.5	0.7	-0.5	1.00	1.00	0.00
4,700.0	2.00	53.92	4,700.0	2.1	2.8	-1.9	1.00	1.00	0.00
4,740.0	2.40	53.92	4,739.9	3.0	4.1	-2.7	1.00	1.00	0.00
4,800.0	2.40	53.92	4,799.9	4.4	6.1	-4.1	0.00	0.00	0.00
4,900.0	2.40	53.92	4,899.8	6.9	9.5	-6.3	0.00	0.00	0.00
5,000.0	2.40	53.92	4,999.7	9.4	12.9	-8.6	0.00	0.00	0.00
5,100.0	2.40	53.92	5,099.6	11.8	16.2	-10.8	0.00	0.00	0.00
5,200.0	2.40	53.92	5,199.5	14.3	19.6	-13.1	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Site: Ophelia 22
Well: #704H
Wellbore: OH
Design: Plan #1

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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	2.40	53.92	5,299.4	16.8	23.0	-15.3	0.00	0.00	0.00
5,400.0	2.40	53.92	5,399.4	19.2	26.4	-17.6	0.00	0.00	0.00
5,500.0	2.40	53.92	5,499.3	21.7	29.8	-19.9	0.00	0.00	0.00
5,600.0	2.40	53.92	5,599.2	24.2	33.2	-22.1	0.00	0.00	0.00
5,700.0	2.40	53.92	5,699.1	26.6	36.5	-24.4	0.00	0.00	0.00
5,800.0	2.40	53.92	5,799.0	29.1	39.9	-26.6	0.00	0.00	0.00
5,900.0	2.40	53.92	5,898.9	31.6	43.3	-28.9	0.00	0.00	0.00
6,000.0	2.40	53.92	5,998.8	34.0	46.7	-31.1	0.00	0.00	0.00
6,100.0	2.40	53.92	6,098.7	36.5	50.1	-33.4	0.00	0.00	0.00
6,200.0	2.40	53.92	6,198.6	39.0	53.5	-35.7	0.00	0.00	0.00
6,300.0	2.40	53.92	6,298.6	41.4	56.9	-37.9	0.00	0.00	0.00
6,400.0	2.40	53.92	6,398.5	43.9	60.2	-40.2	0.00	0.00	0.00
6,500.0	2.40	53.92	6,498.4	46.4	63.6	-42.4	0.00	0.00	0.00
6,600.0	2.40	53.92	6,598.3	48.8	67.0	-44.7	0.00	0.00	0.00
6,700.0	2.40	53.92	6,698.2	51.3	70.4	-46.9	0.00	0.00	0.00
6,800.0	2.40	53.92	6,798.1	53.8	73.8	-49.2	0.00	0.00	0.00
6,900.0	2.40	53.92	6,898.0	56.2	77.2	-51.4	0.00	0.00	0.00
7,000.0	2.40	53.92	6,997.9	58.7	80.5	-53.7	0.00	0.00	0.00
7,100.0	2.40	53.92	7,097.9	61.1	83.9	-56.0	0.00	0.00	0.00
7,200.0	2.40	53.92	7,197.8	63.6	87.3	-58.2	0.00	0.00	0.00
7,300.0	2.40	53.92	7,297.7	66.1	90.7	-60.5	0.00	0.00	0.00
7,400.0	2.40	53.92	7,397.6	68.5	94.1	-62.7	0.00	0.00	0.00
7,500.0	2.40	53.92	7,497.5	71.0	97.5	-65.0	0.00	0.00	0.00
7,600.0	2.40	53.92	7,597.4	73.5	100.8	-67.2	0.00	0.00	0.00
7,700.0	2.40	53.92	7,697.3	75.9	104.2	-69.5	0.00	0.00	0.00
7,800.0	2.40	53.92	7,797.2	78.4	107.6	-71.8	0.00	0.00	0.00
7,900.0	2.40	53.92	7,897.2	80.9	111.0	-74.0	0.00	0.00	0.00
8,000.0	2.40	53.92	7,997.1	83.3	114.4	-76.3	0.00	0.00	0.00
8,100.0	2.40	53.92	8,097.0	85.8	117.8	-78.5	0.00	0.00	0.00
8,200.0	2.40	53.92	8,196.9	88.3	121.1	-80.8	0.00	0.00	0.00
8,300.0	2.40	53.92	8,296.8	90.7	124.5	-83.0	0.00	0.00	0.00
8,400.0	2.40	53.92	8,396.7	93.2	127.9	-85.3	0.00	0.00	0.00
8,500.0	2.40	53.92	8,496.6	95.7	131.3	-87.5	0.00	0.00	0.00
8,600.0	2.40	53.92	8,596.5	98.1	134.7	-89.8	0.00	0.00	0.00
8,700.0	2.40	53.92	8,696.5	100.6	138.1	-92.1	0.00	0.00	0.00
8,800.0	2.40	53.92	8,796.4	103.1	141.4	-94.3	0.00	0.00	0.00
8,900.0	2.40	53.92	8,896.3	105.5	144.8	-96.6	0.00	0.00	0.00
9,000.0	2.40	53.92	8,996.2	108.0	148.2	-98.8	0.00	0.00	0.00
9,100.0	2.40	53.92	9,096.1	110.5	151.6	-101.1	0.00	0.00	0.00
9,200.0	2.40	53.92	9,196.0	112.9	155.0	-103.3	0.00	0.00	0.00
9,300.0	2.40	53.92	9,295.9	115.4	158.4	-105.6	0.00	0.00	0.00
9,400.0	2.40	53.92	9,395.8	117.9	161.8	-107.9	0.00	0.00	0.00
9,500.0	2.40	53.92	9,495.8	120.3	165.1	-110.1	0.00	0.00	0.00
9,600.0	2.40	53.92	9,595.7	122.8	168.5	-112.4	0.00	0.00	0.00
9,700.0	2.40	53.92	9,695.6	125.3	171.9	-114.6	0.00	0.00	0.00
9,800.0	2.40	53.92	9,795.5	127.7	175.3	-116.9	0.00	0.00	0.00
9,900.0	2.40	53.92	9,895.4	130.2	178.7	-119.1	0.00	0.00	0.00
10,000.0	2.40	53.92	9,995.3	132.6	182.1	-121.4	0.00	0.00	0.00
10,100.0	2.40	53.92	10,095.2	135.1	185.4	-123.6	0.00	0.00	0.00
10,200.0	2.40	53.92	10,195.1	137.6	188.8	-125.9	0.00	0.00	0.00
10,300.0	2.40	53.92	10,295.1	140.0	192.2	-128.2	0.00	0.00	0.00
10,400.0	2.40	53.92	10,395.0	142.5	195.6	-130.4	0.00	0.00	0.00
10,500.0	2.40	53.92	10,494.9	145.0	199.0	-132.7	0.00	0.00	0.00
10,600.0	2.40	53.92	10,594.8	147.4	202.4	-134.9	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

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Site: Ophelia 22
Well: #704H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #704H
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	2.40	53.92	10,694.7	149.9	205.7	-137.2	0.00	0.00	0.00
10,800.0	2.40	53.92	10,794.6	152.4	209.1	-139.4	0.00	0.00	0.00
10,900.0	2.40	53.92	10,894.5	154.8	212.5	-141.7	0.00	0.00	0.00
11,000.0	2.40	53.92	10,994.4	157.3	215.9	-144.0	0.00	0.00	0.00
11,100.0	2.40	53.92	11,094.4	159.8	219.3	-146.2	0.00	0.00	0.00
11,200.0	2.40	53.92	11,194.3	162.2	222.7	-148.5	0.00	0.00	0.00
11,300.0	2.40	53.92	11,294.2	164.7	226.0	-150.7	0.00	0.00	0.00
11,400.0	2.40	53.92	11,394.1	167.2	229.4	-153.0	0.00	0.00	0.00
11,500.0	2.40	53.92	11,494.0	169.6	232.8	-155.2	0.00	0.00	0.00
11,600.0	2.40	53.92	11,593.9	172.1	236.2	-157.5	0.00	0.00	0.00
11,700.0	2.40	53.92	11,693.8	174.6	239.6	-159.8	0.00	0.00	0.00
11,800.0	2.40	53.92	11,793.7	177.0	243.0	-162.0	0.00	0.00	0.00
11,859.7	2.40	53.92	11,853.4	178.5	245.0	-163.4	0.00	0.00	0.00
11,900.0	3.27	143.05	11,893.7	178.1	246.4	-162.8	10.00	2.17	221.22
11,950.0	7.87	165.33	11,943.4	173.6	248.1	-158.3	10.00	9.20	44.55
12,000.0	12.78	170.94	11,992.6	164.8	249.8	-149.4	10.00	9.81	11.23
12,050.0	17.73	173.47	12,040.8	151.8	251.6	-136.3	10.00	9.91	5.05
12,100.0	22.71	174.91	12,087.7	134.6	253.3	-119.0	10.00	9.95	2.89
12,150.0	27.69	175.86	12,132.9	113.4	255.0	-97.8	10.00	9.97	1.89
12,200.0	32.68	176.54	12,176.1	88.3	256.6	-72.6	10.00	9.98	1.35
12,250.0	37.67	177.05	12,217.0	59.6	258.2	-43.8	10.00	9.98	1.03
12,300.0	42.67	177.46	12,255.2	27.4	259.8	-11.6	10.00	9.99	0.82
12,350.0	47.66	177.80	12,290.4	-8.0	261.2	23.8	10.00	9.99	0.68
12,400.0	52.66	178.09	12,322.5	-46.4	262.6	62.2	10.00	9.99	0.58
12,450.0	57.65	178.34	12,351.0	-87.4	263.9	103.2	10.00	9.99	0.51
12,500.0	62.65	178.57	12,375.9	-130.7	265.1	146.5	10.00	9.99	0.45
FTP (Ophelia 22 #704H)									
12,550.0	67.64	178.78	12,396.9	-176.1	266.1	191.9	10.00	9.99	0.41
12,600.0	72.64	178.97	12,413.9	-223.1	267.0	238.8	10.00	9.99	0.39
12,650.0	77.64	179.15	12,426.7	-271.4	267.8	287.1	10.00	9.99	0.36
12,700.0	82.63	179.33	12,435.3	-320.6	268.5	336.3	10.00	9.99	0.35
12,750.0	87.63	179.50	12,439.5	-370.4	269.0	386.0	10.00	9.99	0.34
12,773.7	90.00	179.58	12,440.0	-394.1	269.2	409.7	10.00	9.99	0.34
12,800.0	90.00	179.58	12,440.0	-420.4	269.4	436.0	0.00	0.00	0.00
12,900.0	90.00	179.58	12,440.0	-520.4	270.1	535.8	0.00	0.00	0.00
13,000.0	90.00	179.58	12,440.0	-620.4	270.8	635.7	0.00	0.00	0.00
13,100.0	90.00	179.58	12,440.0	-720.4	271.6	735.5	0.00	0.00	0.00
13,200.0	90.00	179.58	12,440.0	-820.4	272.3	835.4	0.00	0.00	0.00
13,300.0	90.00	179.58	12,440.0	-920.4	273.0	935.2	0.00	0.00	0.00
13,400.0	90.00	179.58	12,440.0	-1,020.4	273.8	1,035.1	0.00	0.00	0.00
13,500.0	90.00	179.58	12,440.0	-1,120.4	274.5	1,135.0	0.00	0.00	0.00
13,600.0	90.00	179.58	12,440.0	-1,220.4	275.2	1,234.8	0.00	0.00	0.00
13,700.0	90.00	179.58	12,440.0	-1,320.4	276.0	1,334.7	0.00	0.00	0.00
13,800.0	90.00	179.58	12,440.0	-1,420.4	276.7	1,434.5	0.00	0.00	0.00
13,900.0	90.00	179.58	12,440.0	-1,520.4	277.4	1,534.4	0.00	0.00	0.00
14,000.0	90.00	179.58	12,440.0	-1,620.4	278.2	1,634.3	0.00	0.00	0.00
14,100.0	90.00	179.58	12,440.0	-1,720.4	278.9	1,734.1	0.00	0.00	0.00
14,200.0	90.00	179.58	12,440.0	-1,820.4	279.6	1,834.0	0.00	0.00	0.00
14,300.0	90.00	179.58	12,440.0	-1,920.4	280.4	1,933.8	0.00	0.00	0.00
14,400.0	90.00	179.58	12,440.0	-2,020.4	281.1	2,033.7	0.00	0.00	0.00
14,500.0	90.00	179.58	12,440.0	-2,120.4	281.8	2,133.5	0.00	0.00	0.00
14,600.0	90.00	179.58	12,440.0	-2,220.4	282.6	2,233.4	0.00	0.00	0.00
14,700.0	90.00	179.58	12,440.0	-2,320.4	283.3	2,333.3	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)
14,800.0	90.00	179.58	12,440.0	-2,420.4	284.1	2,433.1	0.00	0.00	0.00
14,900.0	90.00	179.58	12,440.0	-2,520.4	284.8	2,533.0	0.00	0.00	0.00
15,000.0	90.00	179.58	12,440.0	-2,620.4	285.5	2,632.8	0.00	0.00	0.00
15,100.0	90.00	179.58	12,440.0	-2,720.4	286.3	2,732.7	0.00	0.00	0.00
15,200.0	90.00	179.58	12,440.0	-2,820.4	287.0	2,832.6	0.00	0.00	0.00
15,300.0	90.00	179.58	12,440.0	-2,920.4	287.7	2,932.4	0.00	0.00	0.00
15,400.0	90.00	179.58	12,440.0	-3,020.4	288.5	3,032.3	0.00	0.00	0.00
15,500.0	90.00	179.58	12,440.0	-3,120.4	289.2	3,132.1	0.00	0.00	0.00
15,600.0	90.00	179.58	12,440.0	-3,220.4	289.9	3,232.0	0.00	0.00	0.00
15,700.0	90.00	179.58	12,440.0	-3,320.3	290.7	3,331.9	0.00	0.00	0.00
15,800.0	90.00	179.58	12,440.0	-3,420.3	291.4	3,431.7	0.00	0.00	0.00
15,900.0	90.00	179.58	12,440.0	-3,520.3	292.1	3,531.6	0.00	0.00	0.00
16,000.0	90.00	179.58	12,440.0	-3,620.3	292.9	3,631.4	0.00	0.00	0.00
16,100.0	90.00	179.58	12,440.0	-3,720.3	293.6	3,731.3	0.00	0.00	0.00
16,200.0	90.00	179.58	12,440.0	-3,820.3	294.3	3,831.1	0.00	0.00	0.00
16,300.0	90.00	179.58	12,440.0	-3,920.3	295.1	3,931.0	0.00	0.00	0.00
16,400.0	90.00	179.58	12,440.0	-4,020.3	295.8	4,030.9	0.00	0.00	0.00
16,500.0	90.00	179.58	12,440.0	-4,120.3	296.5	4,130.7	0.00	0.00	0.00
16,600.0	90.00	179.58	12,440.0	-4,220.3	297.3	4,230.6	0.00	0.00	0.00
16,700.0	90.00	179.58	12,440.0	-4,320.3	298.0	4,330.4	0.00	0.00	0.00
16,800.0	90.00	179.58	12,440.0	-4,420.3	298.7	4,430.3	0.00	0.00	0.00
16,900.0	90.00	179.58	12,440.0	-4,520.3	299.5	4,530.2	0.00	0.00	0.00
17,000.0	90.00	179.58	12,440.0	-4,620.3	300.2	4,630.0	0.00	0.00	0.00
17,100.0	90.00	179.58	12,440.0	-4,720.3	300.9	4,729.9	0.00	0.00	0.00
17,200.0	90.00	179.58	12,440.0	-4,820.3	301.7	4,829.7	0.00	0.00	0.00
17,300.0	90.00	179.58	12,440.0	-4,920.3	302.4	4,929.6	0.00	0.00	0.00
17,379.7	90.00	179.58	12,440.0	-5,000.0	303.0	5,009.2	0.00	0.00	0.00

PBHL(Ophelia 22 #704H)

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
PBHL(Ophelia 22 #704H) - plan hits target center - Point	0.00	0.01	12,440.0	-5,000.0	303.0	369,846.00	740,279.00	32° 0' 52.026 N	103° 33' 29.215 W
FTP (Ophelia 22 #704H) - plan misses target center by 71.6usft at 12500.0usft MD (12375.9 TVD, -130.7 N, 265.1 E) - Point	0.00	0.01	12,440.0	-99.0	267.0	374,747.00	740,243.00	32° 1' 40.528 N	103° 33' 29.225 W