

Well Name: OPHELIA 22 FED COM	Well Location: T26S / R33E / SEC 22 / NWNW / 32.0356686 / -103.5647349	County or Parish/State: LEA / NM
Well Number: 711H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM122622	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254464400X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 03/04/2021	Time Sundry Submitted: 02:00
Date proposed operation will begin: 03/31/2021	

Procedure Description: EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Change surface hole size to 12.25 inches Change intermediate hole size to 8.75 inches Change surface casing size to 9.625 inches Update cement program to current design Update directional to add backbuild Change BHL to T-26-S R-33-E Sec 27 2541' FNL 1880' FWL, Lea Co, NM

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Ophelia_22_Fed_Com_742H_Permit_Info_20210304135941.pdf
- Wellhead_9.625_in_20210304074721.pdf
- Ophelia_22_Fed_Com_742H_Wall_Plot_20210304074720.pdf
- Ophelia_22_Fed_Com_742H_Planning_Report_20210304074720.pdf
- EOG_BLM_10M_Annular_Variance___9.625_in_20210304074708.pdf
- 7.625in_29.70_P110HC_FXL_20210304074708.pdf
- 5.500in_20.00_VST_P110EC_VAM_SFC_20210304074708.pdf
- 10_M_BOP_Diagram_11_in_20210304074708.pdf
- 5.500in_20.00_VST_P110EC_DWC_C_IS_MS_Spec_Sheet_20210304074707.pdf
- OPHELIA_22_Fed_Com_742H_C_102_20210304074642.pdf

Well Name: OPHELIA 22 FED COM	Well Location: T26S / R33E / SEC 22 / NWNW / 32.0356686 / -103.5647349	County or Parish/State: LEA / NM
Well Number: 711H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM122622	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254464400X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature:	Signed on:
Name: EOG RESOURCES INCORPORATED	
Title: Regulatory Specialist	
Street Address: 5509 CHAMPIONS DRIVE	
City: MIDLAND	State: TX
Phone: (432) 848-9161	
Email address: Star_Harrell@eogresources.com	

Field Representative

Representative Name: Star Harrell	
Street Address: 5509 CHAMPIONS DRIVE	
City: MIDLAND	State: TX
Phone: (432)848-9161	Zip: 79706
Email address: Star_Harrell@eogresources.com	

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Sundry Returned	Disposition Date: 04/13/2021
Signature: null	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

**Submit one copy to appropriate
District Office**

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 44644	² Pool Code 98097	³ Pool Name Sanders Tank; Upper Wolfcamp
⁴ Property Code 319569	⁵ Property Name OPHELIA 22 FED COM	
⁶ Well Number 742H		
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	
	⁹ Elevation 3306'	

¹⁰Surface Location

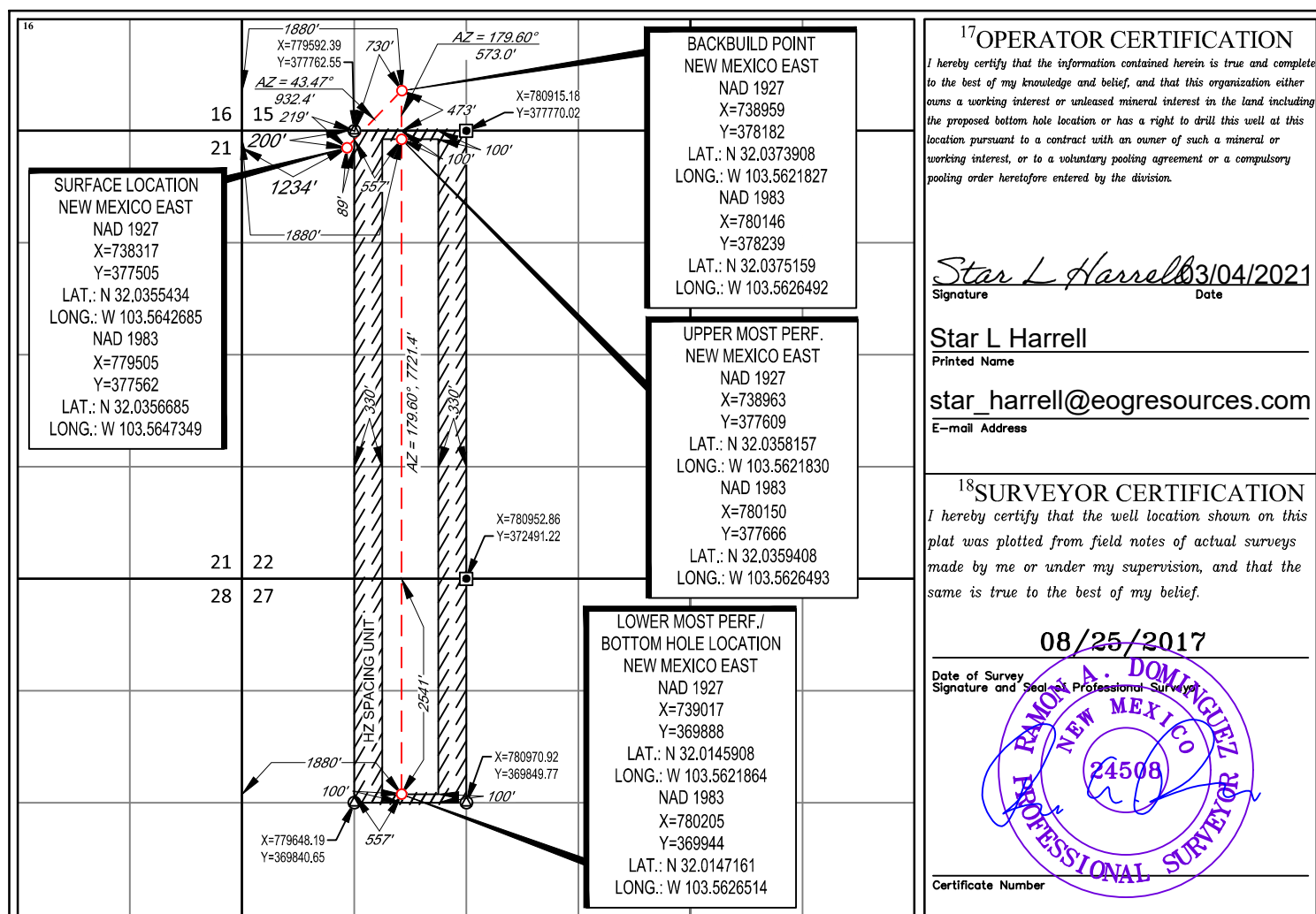
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	22	26-S	33-E	—	200'	NORTH	1234'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	27	26-S	33-E	-	2541'	NORTH	1880'	WEST	LEA

¹² Dedicated Acres 240.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Revised Permit Information 2/25/2021:

Well Name: Ophelia 22 Fed Com #742H

Location:

SHL: 200' FNL & 1234' FWL, Section 22, T-26-S, R-33-E, Lea Co., N.M.

BHL: 2541' FNL & 1880' FWL, Section 27, T-26-S, R-33-E, Lea Co., N.M.

Design A**Casing Program:**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0' – 1,000'	9.625"	36#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 11,310'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 10,810'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,810' – 11,310'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	11,310' – 21,117'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60

Variance is requested to wave the centralizer requirements for the 7-5/8" casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to wave any centralizer requirements for the 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

EOG requests variance to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,000' 9-5/8"	290	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 800')
11,310' 7-5/8"	440	14.2	1.11	1 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,600')
	1,290	14.8	1.5	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
21,117' 5-1/2"	890	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,810')

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated TOC at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top of cement will be verified by Echo-meter.

EOG will include the final fluid top verified by Echo-meter and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,000'	Fresh - Gel	8.6-8.8	28-34	N/c
1,000' – 11,310'	Brine	10.0-10.2	28-34	N/c
11,310' – 12,255'	Oil Base	8.7-9.4	58-68	N/c - 6
12,255' – 21,117' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

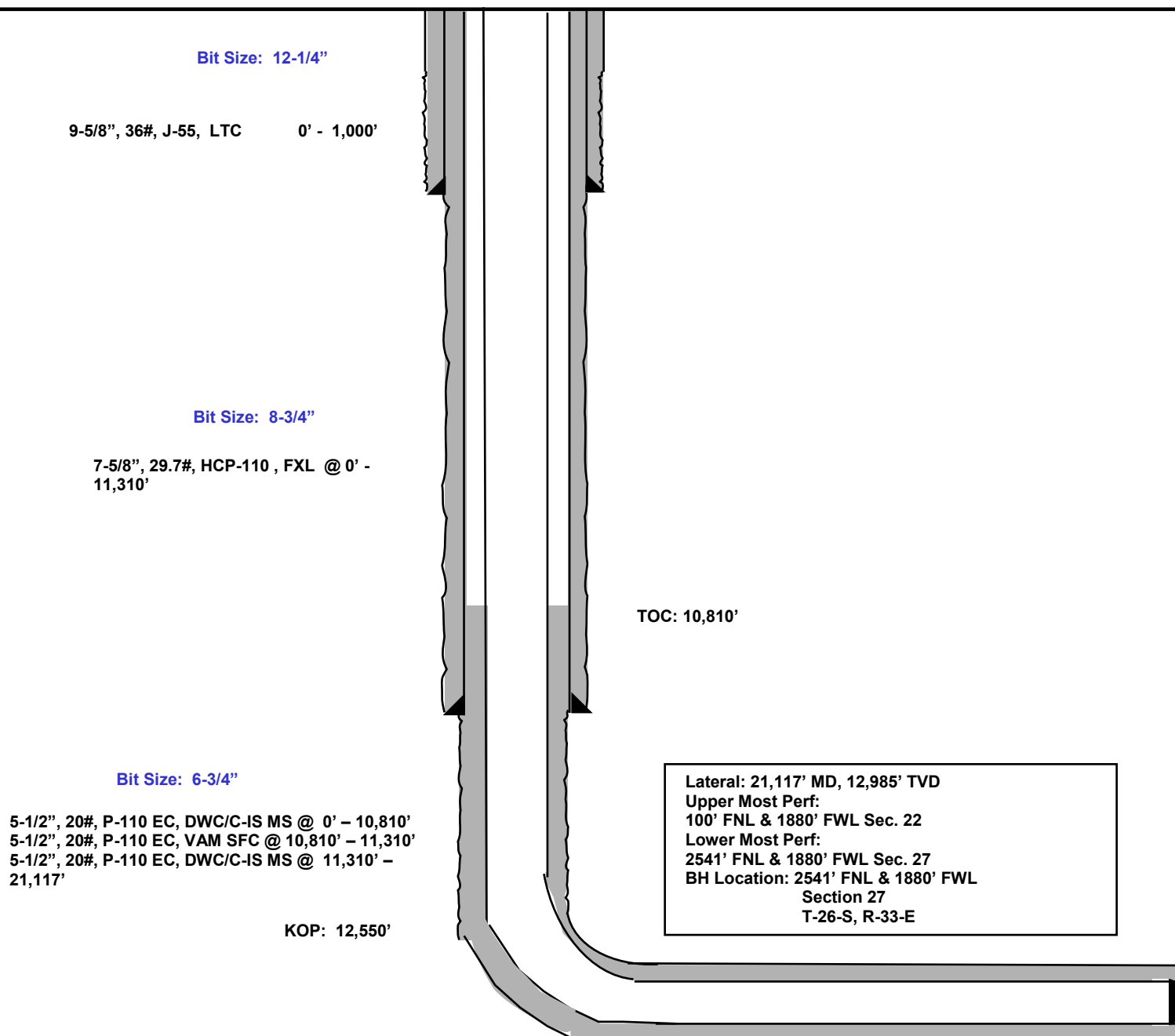
Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

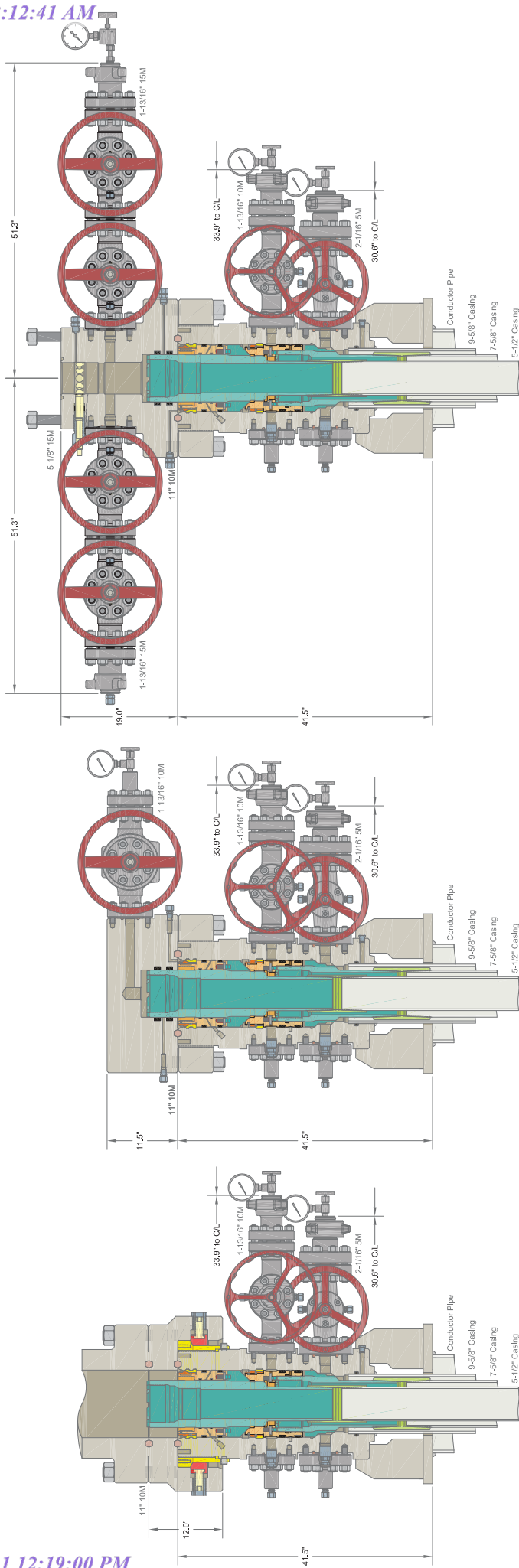
200' FNL
1234' FWL
Section 22
T-26-S, R-33-E

Revised Wellbore

KB: 3,331'
GL: 3,306'

API: 30-025-44644





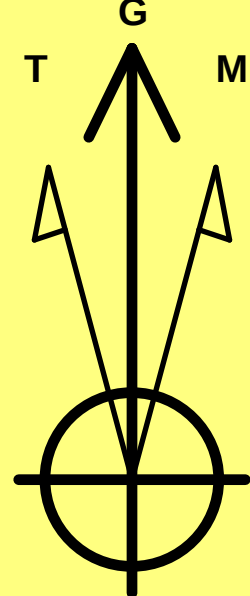
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ALL DIMENSIONS APPROXIMATE		
EOG RESOURCES DELAWARE		
DRAWN	DLE	23OCT18
APPRV		
DRAWING NO.	HBE00000010	

Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com #742H

Plan #0.1



Azimuths to Grid North
 True North: -0.41°
 Magnetic North: 6.15°

Magnetic Field
 Strength: 47413.8nT
 Dip Angle: 59.74°
 Date: 3/1/2021
 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.15°
 To convert a Magnetic Direction to a True Direction, Add 6.56° East
 To convert a True Direction to a Grid Direction, Subtract 0.41°

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: #742H

KB = 32' @ 3338.0usft 3306.0
 Northing 377562.00 Easting 779505.00 Latitude 32.0356684°N Longitude 103.5647340°W

SECTION DETAILS

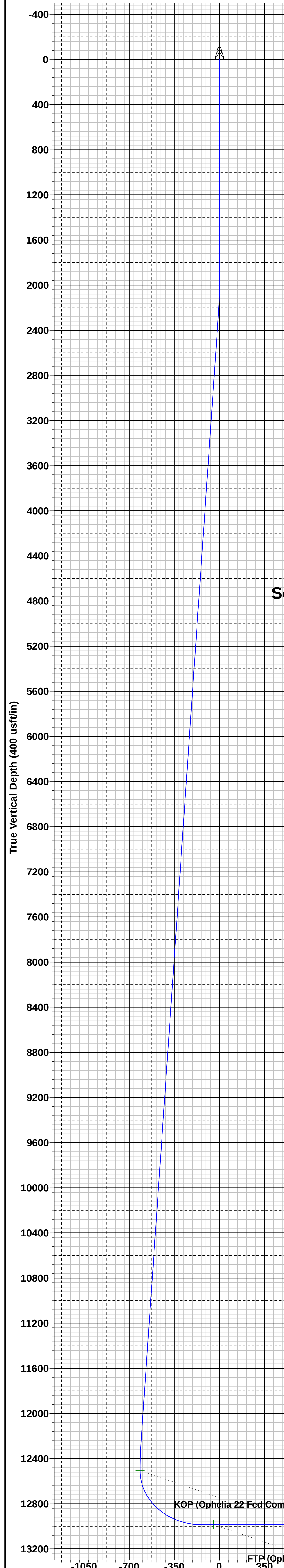
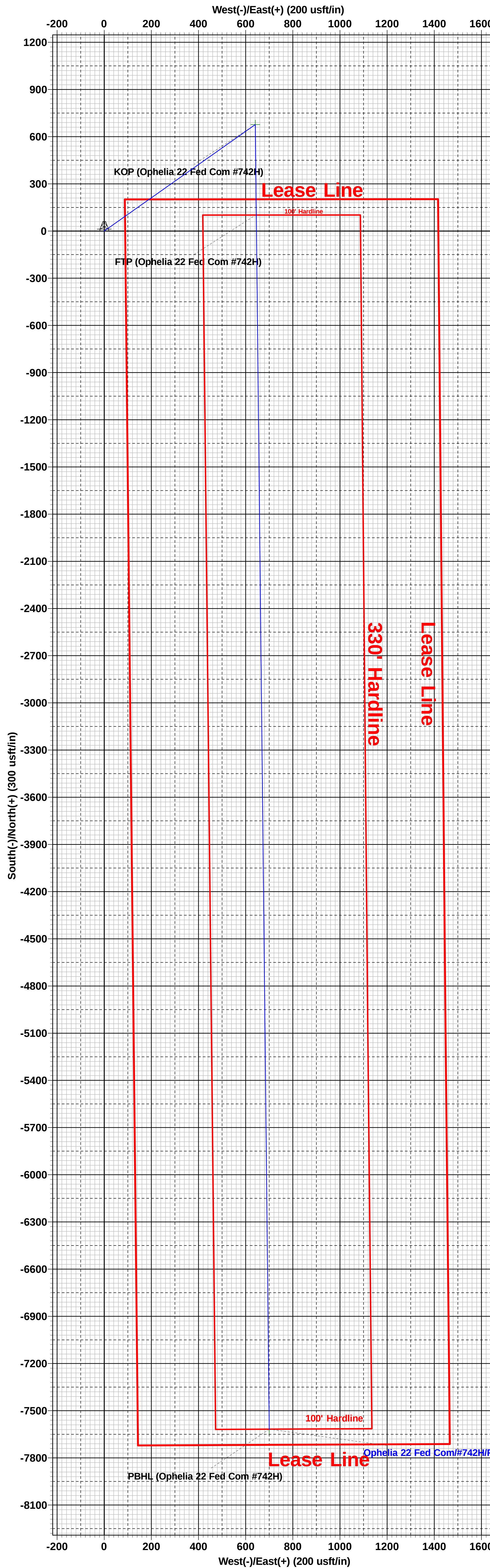
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2259.9	5.20	43.44	2259.6	8.6	8.1	2.00	43.44	-7.8	
4	12289.5	5.20	43.44	12247.9	668.4	632.9	0.00	0.00	-607.7	
5	12549.5	0.00	0.00	12507.5	677.0	641.0	2.00	180.00	-615.5	KOP (Ophelia 22 Fed Com #742H)
6	13299.5	90.00	179.59	12985.0	199.5	644.4	12.00	179.59	-139.7	
7	21117.2	90.00	179.59	12985.0	-7618.0	700.0	0.00	0.00	7650.1	PBHL (Ophelia 22 Fed Com #742H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Ophelia 22 Fed Com #742H)	12507.5	677.0	641.0	378239.00	780146.00
PBHL (Ophelia 22 Fed Com #742H)	12985.0	-7618.0	700.0	369944.00	780205.00
FTP (Ophelia 22 Fed Com #742H)	12985.0	104.0	645.0	377666.00	780150.00



Vertical Section at 174.75° (350 usft/in)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com

#742H

73923

OH

Plan: Plan #0.1

Standard Planning Report

01 March, 2021



EOG Resources

Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #742H
Company:	EOG Resources - Midland	TVD Reference:	KB = 32' @ 3338.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 32' @ 3338.0usft
Site:	Ophelia 22 Fed Com	North Reference:	Grid
Well:	#742H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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:	32.0356717°N
From:	Map	Easting:	778,915.00 usft	Longitude:	103.5666379°W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	#742H					
Well Position	+N/-S	3.0 usft	Northing:	377,562.00 usft	Latitude:	32.0356684°N
	+E/-W	590.0 usft	Easting:	779,505.00 usft	Longitude:	103.5647340°W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,306.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/1/2021	6.56	59.74	47,413.82959761

Design	Plan #0.1			
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	174.75

Plan Survey Tool Program	Date	3/1/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	21,117.2 Plan #0.1 (OH)	EOG MWD+IFR1		
			MWD + IFR1		

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,259.9	5.20	43.44	2,259.6	8.6	8.1	2.00	2.00	0.00	43.44	
12,289.5	5.20	43.44	12,247.9	668.4	632.9	0.00	0.00	0.00	0.00	
12,549.5	0.00	0.00	12,507.5	677.0	641.0	2.00	-2.00	0.00	180.00	KOP (Ophelia 22 Fed
13,299.5	90.00	179.59	12,985.0	199.5	644.4	12.00	12.00	23.95	179.59	
21,117.2	90.00	179.59	12,985.0	-7,618.0	700.0	0.00	0.00	0.00	0.00	PBHL (Ophelia 22 Fe



EOG Resources

Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #742H
Company:	EOG Resources - Midland	TVD Reference:	KB = 32' @ 3338.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 32' @ 3338.0usft
Site:	Ophelia 22 Fed Com	North Reference:	Grid
Well:	#742H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	2.00	43.44	2,100.0	1.3	1.2	-1.2	2.00	2.00	0.00
2,200.0	4.00	43.44	2,199.8	5.1	4.8	-4.6	2.00	2.00	0.00
2,259.9	5.20	43.44	2,259.6	8.6	8.1	-7.8	2.00	2.00	0.00
2,300.0	5.20	43.44	2,299.5	11.2	10.6	-10.2	0.00	0.00	0.00
2,400.0	5.20	43.44	2,399.1	17.8	16.8	-16.2	0.00	0.00	0.00
2,500.0	5.20	43.44	2,498.7	24.4	23.1	-22.1	0.00	0.00	0.00
2,600.0	5.20	43.44	2,598.2	30.9	29.3	-28.1	0.00	0.00	0.00
2,700.0	5.20	43.44	2,697.8	37.5	35.5	-34.1	0.00	0.00	0.00
2,800.0	5.20	43.44	2,797.4	44.1	41.7	-40.1	0.00	0.00	0.00
2,900.0	5.20	43.44	2,897.0	50.7	48.0	-46.1	0.00	0.00	0.00
3,000.0	5.20	43.44	2,996.6	57.2	54.2	-52.0	0.00	0.00	0.00
3,100.0	5.20	43.44	3,096.2	63.8	60.4	-58.0	0.00	0.00	0.00
3,200.0	5.20	43.44	3,195.8	70.4	66.7	-64.0	0.00	0.00	0.00
3,300.0	5.20	43.44	3,295.4	77.0	72.9	-70.0	0.00	0.00	0.00
3,400.0	5.20	43.44	3,395.0	83.6	79.1	-76.0	0.00	0.00	0.00
3,500.0	5.20	43.44	3,494.5	90.1	85.4	-82.0	0.00	0.00	0.00
3,600.0	5.20	43.44	3,594.1	96.7	91.6	-87.9	0.00	0.00	0.00
3,700.0	5.20	43.44	3,693.7	103.3	97.8	-93.9	0.00	0.00	0.00
3,800.0	5.20	43.44	3,793.3	109.9	104.0	-99.9	0.00	0.00	0.00
3,900.0	5.20	43.44	3,892.9	116.5	110.3	-105.9	0.00	0.00	0.00
4,000.0	5.20	43.44	3,992.5	123.0	116.5	-111.9	0.00	0.00	0.00
4,100.0	5.20	43.44	4,092.1	129.6	122.7	-117.8	0.00	0.00	0.00
4,200.0	5.20	43.44	4,191.7	136.2	129.0	-123.8	0.00	0.00	0.00
4,300.0	5.20	43.44	4,291.3	142.8	135.2	-129.8	0.00	0.00	0.00
4,400.0	5.20	43.44	4,390.8	149.4	141.4	-135.8	0.00	0.00	0.00
4,500.0	5.20	43.44	4,490.4	155.9	147.6	-141.8	0.00	0.00	0.00
4,600.0	5.20	43.44	4,590.0	162.5	153.9	-147.8	0.00	0.00	0.00
4,700.0	5.20	43.44	4,689.6	169.1	160.1	-153.7	0.00	0.00	0.00
4,800.0	5.20	43.44	4,789.2	175.7	166.3	-159.7	0.00	0.00	0.00
4,900.0	5.20	43.44	4,888.8	182.3	172.6	-165.7	0.00	0.00	0.00
5,000.0	5.20	43.44	4,988.4	188.8	178.8	-171.7	0.00	0.00	0.00
5,100.0	5.20	43.44	5,088.0	195.4	185.0	-177.7	0.00	0.00	0.00
5,200.0	5.20	43.44	5,187.6	202.0	191.3	-183.6	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #742H
Company:	EOG Resources - Midland	TVD Reference:	KB = 32' @ 3338.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 32' @ 3338.0usft
Site:	Ophelia 22 Fed Com	North Reference:	Grid
Well:	#742H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	5.20	43.44	5,287.1	208.6	197.5	-189.6	0.00	0.00	0.00
5,400.0	5.20	43.44	5,386.7	215.2	203.7	-195.6	0.00	0.00	0.00
5,500.0	5.20	43.44	5,486.3	221.7	209.9	-201.6	0.00	0.00	0.00
5,600.0	5.20	43.44	5,585.9	228.3	216.2	-207.6	0.00	0.00	0.00
5,700.0	5.20	43.44	5,685.5	234.9	222.4	-213.6	0.00	0.00	0.00
5,800.0	5.20	43.44	5,785.1	241.5	228.6	-219.5	0.00	0.00	0.00
5,900.0	5.20	43.44	5,884.7	248.1	234.9	-225.5	0.00	0.00	0.00
6,000.0	5.20	43.44	5,984.3	254.6	241.1	-231.5	0.00	0.00	0.00
6,100.0	5.20	43.44	6,083.8	261.2	247.3	-237.5	0.00	0.00	0.00
6,200.0	5.20	43.44	6,183.4	267.8	253.5	-243.5	0.00	0.00	0.00
6,300.0	5.20	43.44	6,283.0	274.4	259.8	-249.4	0.00	0.00	0.00
6,400.0	5.20	43.44	6,382.6	280.9	266.0	-255.4	0.00	0.00	0.00
6,500.0	5.20	43.44	6,482.2	287.5	272.2	-261.4	0.00	0.00	0.00
6,600.0	5.20	43.44	6,581.8	294.1	278.5	-267.4	0.00	0.00	0.00
6,700.0	5.20	43.44	6,681.4	300.7	284.7	-273.4	0.00	0.00	0.00
6,800.0	5.20	43.44	6,781.0	307.3	290.9	-279.4	0.00	0.00	0.00
6,900.0	5.20	43.44	6,880.6	313.8	297.2	-285.3	0.00	0.00	0.00
7,000.0	5.20	43.44	6,980.1	320.4	303.4	-291.3	0.00	0.00	0.00
7,100.0	5.20	43.44	7,079.7	327.0	309.6	-297.3	0.00	0.00	0.00
7,200.0	5.20	43.44	7,179.3	333.6	315.8	-303.3	0.00	0.00	0.00
7,300.0	5.20	43.44	7,278.9	340.2	322.1	-309.3	0.00	0.00	0.00
7,400.0	5.20	43.44	7,378.5	346.7	328.3	-315.2	0.00	0.00	0.00
7,500.0	5.20	43.44	7,478.1	353.3	334.5	-321.2	0.00	0.00	0.00
7,600.0	5.20	43.44	7,577.7	359.9	340.8	-327.2	0.00	0.00	0.00
7,700.0	5.20	43.44	7,677.3	366.5	347.0	-333.2	0.00	0.00	0.00
7,800.0	5.20	43.44	7,776.9	373.1	353.2	-339.2	0.00	0.00	0.00
7,900.0	5.20	43.44	7,876.4	379.6	359.5	-345.2	0.00	0.00	0.00
8,000.0	5.20	43.44	7,976.0	386.2	365.7	-351.1	0.00	0.00	0.00
8,100.0	5.20	43.44	8,075.6	392.8	371.9	-357.1	0.00	0.00	0.00
8,200.0	5.20	43.44	8,175.2	399.4	378.1	-363.1	0.00	0.00	0.00
8,300.0	5.20	43.44	8,274.8	406.0	384.4	-369.1	0.00	0.00	0.00
8,400.0	5.20	43.44	8,374.4	412.5	390.6	-375.1	0.00	0.00	0.00
8,500.0	5.20	43.44	8,474.0	419.1	396.8	-381.0	0.00	0.00	0.00
8,600.0	5.20	43.44	8,573.6	425.7	403.1	-387.0	0.00	0.00	0.00
8,700.0	5.20	43.44	8,673.2	432.3	409.3	-393.0	0.00	0.00	0.00
8,800.0	5.20	43.44	8,772.7	438.9	415.5	-399.0	0.00	0.00	0.00
8,900.0	5.20	43.44	8,872.3	445.4	421.7	-405.0	0.00	0.00	0.00
9,000.0	5.20	43.44	8,971.9	452.0	428.0	-411.0	0.00	0.00	0.00
9,100.0	5.20	43.44	9,071.5	458.6	434.2	-416.9	0.00	0.00	0.00
9,200.0	5.20	43.44	9,171.1	465.2	440.4	-422.9	0.00	0.00	0.00
9,300.0	5.20	43.44	9,270.7	471.8	446.7	-428.9	0.00	0.00	0.00
9,400.0	5.20	43.44	9,370.3	478.3	452.9	-434.9	0.00	0.00	0.00
9,500.0	5.20	43.44	9,469.9	484.9	459.1	-440.9	0.00	0.00	0.00
9,600.0	5.20	43.44	9,569.5	491.5	465.4	-446.8	0.00	0.00	0.00
9,700.0	5.20	43.44	9,669.0	498.1	471.6	-452.8	0.00	0.00	0.00
9,800.0	5.20	43.44	9,768.6	504.6	477.8	-458.8	0.00	0.00	0.00
9,900.0	5.20	43.44	9,868.2	511.2	484.0	-464.8	0.00	0.00	0.00
10,000.0	5.20	43.44	9,967.8	517.8	490.3	-470.8	0.00	0.00	0.00
10,100.0	5.20	43.44	10,067.4	524.4	496.5	-476.8	0.00	0.00	0.00
10,200.0	5.20	43.44	10,167.0	531.0	502.7	-482.7	0.00	0.00	0.00
10,300.0	5.20	43.44	10,266.6	537.5	509.0	-488.7	0.00	0.00	0.00
10,400.0	5.20	43.44	10,366.2	544.1	515.2	-494.7	0.00	0.00	0.00
10,500.0	5.20	43.44	10,465.8	550.7	521.4	-500.7	0.00	0.00	0.00
10,600.0	5.20	43.44	10,565.3	557.3	527.6	-506.7	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #742H
Company:	EOG Resources - Midland	TVD Reference:	KB = 32' @ 3338.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 32' @ 3338.0usft
Site:	Ophelia 22 Fed Com	North Reference:	Grid
Well:	#742H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	5.20	43.44	10,664.9	563.9	533.9	-512.6	0.00	0.00	0.00
10,800.0	5.20	43.44	10,764.5	570.4	540.1	-518.6	0.00	0.00	0.00
10,900.0	5.20	43.44	10,864.1	577.0	546.3	-524.6	0.00	0.00	0.00
11,000.0	5.20	43.44	10,963.7	583.6	552.6	-530.6	0.00	0.00	0.00
11,100.0	5.20	43.44	11,063.3	590.2	558.8	-536.6	0.00	0.00	0.00
11,200.0	5.20	43.44	11,162.9	596.8	565.0	-542.6	0.00	0.00	0.00
11,300.0	5.20	43.44	11,262.5	603.3	571.3	-548.5	0.00	0.00	0.00
11,400.0	5.20	43.44	11,362.0	609.9	577.5	-554.5	0.00	0.00	0.00
11,500.0	5.20	43.44	11,461.6	616.5	583.7	-560.5	0.00	0.00	0.00
11,600.0	5.20	43.44	11,561.2	623.1	589.9	-566.5	0.00	0.00	0.00
11,700.0	5.20	43.44	11,660.8	629.7	596.2	-572.5	0.00	0.00	0.00
11,800.0	5.20	43.44	11,760.4	636.2	602.4	-578.4	0.00	0.00	0.00
11,900.0	5.20	43.44	11,860.0	642.8	608.6	-584.4	0.00	0.00	0.00
12,000.0	5.20	43.44	11,959.6	649.4	614.9	-590.4	0.00	0.00	0.00
12,100.0	5.20	43.44	12,059.2	656.0	621.1	-596.4	0.00	0.00	0.00
12,200.0	5.20	43.44	12,158.8	662.6	627.3	-602.4	0.00	0.00	0.00
12,289.5	5.20	43.44	12,247.9	668.4	632.9	-607.7	0.00	0.00	0.00
12,300.0	4.99	43.44	12,258.3	669.1	633.5	-608.3	2.00	-2.00	0.00
12,400.0	2.99	43.44	12,358.1	674.2	638.3	-612.9	2.00	-2.00	0.00
12,500.0	0.99	43.44	12,458.0	676.7	640.7	-615.2	2.00	-2.00	0.00
12,549.5	0.00	0.00	12,507.5	677.0	641.0	-615.5	2.00	-2.00	0.00
KOP (Ophelia 22 Fed Com #742H)									
12,575.0	3.06	179.59	12,533.0	676.3	641.0	-614.8	12.00	12.00	0.00
12,600.0	6.06	179.59	12,557.9	674.3	641.0	-612.8	12.00	12.00	0.00
12,625.0	9.06	179.59	12,582.7	671.0	641.0	-609.6	12.00	12.00	0.00
12,650.0	12.06	179.59	12,607.3	666.5	641.1	-605.0	12.00	12.00	0.00
12,675.0	15.06	179.59	12,631.6	660.6	641.1	-599.2	12.00	12.00	0.00
12,700.0	18.06	179.59	12,655.6	653.5	641.2	-592.1	12.00	12.00	0.00
12,725.0	21.06	179.59	12,679.1	645.1	641.2	-583.7	12.00	12.00	0.00
12,750.0	24.06	179.59	12,702.2	635.5	641.3	-574.2	12.00	12.00	0.00
12,775.0	27.06	179.59	12,724.7	624.7	641.4	-563.4	12.00	12.00	0.00
12,800.0	30.06	179.59	12,746.7	612.8	641.5	-551.5	12.00	12.00	0.00
12,825.0	33.06	179.59	12,768.0	599.7	641.5	-538.5	12.00	12.00	0.00
12,850.0	36.06	179.59	12,788.6	585.5	641.7	-524.3	12.00	12.00	0.00
12,875.0	39.06	179.59	12,808.4	570.3	641.8	-509.1	12.00	12.00	0.00
12,900.0	42.06	179.59	12,827.4	554.0	641.9	-492.9	12.00	12.00	0.00
12,925.0	45.06	179.59	12,845.5	536.8	642.0	-475.8	12.00	12.00	0.00
12,950.0	48.06	179.59	12,862.7	518.6	642.1	-457.7	12.00	12.00	0.00
12,975.0	51.06	179.59	12,878.9	499.6	642.3	-438.7	12.00	12.00	0.00
13,000.0	54.06	179.59	12,894.1	479.8	642.4	-419.0	12.00	12.00	0.00
13,025.0	57.06	179.59	12,908.2	459.1	642.5	-398.4	12.00	12.00	0.00
13,050.0	60.06	179.59	12,921.3	437.8	642.7	-377.2	12.00	12.00	0.00
13,075.0	63.06	179.59	12,933.2	415.8	642.9	-355.3	12.00	12.00	0.00
13,100.0	66.06	179.59	12,943.9	393.3	643.0	-332.8	12.00	12.00	0.00
13,125.0	69.06	179.59	12,953.4	370.2	643.2	-309.7	12.00	12.00	0.00
13,150.0	72.06	179.59	12,961.8	346.6	643.4	-286.3	12.00	12.00	0.00
13,175.0	75.06	179.59	12,968.8	322.6	643.5	-262.4	12.00	12.00	0.00
13,200.0	78.06	179.59	12,974.6	298.3	643.7	-238.1	12.00	12.00	0.00
13,225.0	81.06	179.59	12,979.2	273.7	643.9	-213.6	12.00	12.00	0.00
13,250.0	84.06	179.59	12,982.4	248.9	644.0	-188.9	12.00	12.00	0.00
13,275.0	87.06	179.59	12,984.3	224.0	644.2	-164.1	12.00	12.00	0.00
13,299.5	90.00	179.59	12,985.0	199.5	644.4	-139.7	12.00	12.00	0.00
13,395.0	90.00	179.59	12,985.0	104.0	645.1	-44.5	0.00	0.00	0.00
FTP (Ophelia 22 Fed Com #742H)									

EOG Resources

Planning Report



Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #742H
Company:	EOG Resources - Midland	TVD Reference:	KB = 32' @ 3338.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 32' @ 3338.0usft
Site:	Ophelia 22 Fed Com	North Reference:	Grid
Well:	#742H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
13,400.0	90.00	179.59	12,985.0	99.0	645.1	-39.6	0.00	0.00	0.00
13,500.0	90.00	179.59	12,985.0	-1.0	645.8	60.1	0.00	0.00	0.00
13,600.0	90.00	179.59	12,985.0	-101.0	646.5	159.7	0.00	0.00	0.00
13,700.0	90.00	179.59	12,985.0	-201.0	647.2	259.4	0.00	0.00	0.00
13,800.0	90.00	179.59	12,985.0	-301.0	648.0	359.0	0.00	0.00	0.00
13,900.0	90.00	179.59	12,985.0	-401.0	648.7	458.6	0.00	0.00	0.00
14,000.0	90.00	179.59	12,985.0	-501.0	649.4	558.3	0.00	0.00	0.00
14,100.0	90.00	179.59	12,985.0	-601.0	650.1	657.9	0.00	0.00	0.00
14,200.0	90.00	179.59	12,985.0	-701.0	650.8	757.6	0.00	0.00	0.00
14,300.0	90.00	179.59	12,985.0	-801.0	651.5	857.2	0.00	0.00	0.00
14,400.0	90.00	179.59	12,985.0	-901.0	652.2	956.9	0.00	0.00	0.00
14,500.0	90.00	179.59	12,985.0	-1,001.0	652.9	1,056.5	0.00	0.00	0.00
14,600.0	90.00	179.59	12,985.0	-1,101.0	653.6	1,156.1	0.00	0.00	0.00
14,700.0	90.00	179.59	12,985.0	-1,201.0	654.4	1,255.8	0.00	0.00	0.00
14,800.0	90.00	179.59	12,985.0	-1,300.9	655.1	1,355.4	0.00	0.00	0.00
14,900.0	90.00	179.59	12,985.0	-1,400.9	655.8	1,455.1	0.00	0.00	0.00
15,000.0	90.00	179.59	12,985.0	-1,500.9	656.5	1,554.7	0.00	0.00	0.00
15,100.0	90.00	179.59	12,985.0	-1,600.9	657.2	1,654.4	0.00	0.00	0.00
15,200.0	90.00	179.59	12,985.0	-1,700.9	657.9	1,754.0	0.00	0.00	0.00
15,300.0	90.00	179.59	12,985.0	-1,800.9	658.6	1,853.6	0.00	0.00	0.00
15,400.0	90.00	179.59	12,985.0	-1,900.9	659.3	1,953.3	0.00	0.00	0.00
15,500.0	90.00	179.59	12,985.0	-2,000.9	660.0	2,052.9	0.00	0.00	0.00
15,600.0	90.00	179.59	12,985.0	-2,100.9	660.8	2,152.6	0.00	0.00	0.00
15,700.0	90.00	179.59	12,985.0	-2,200.9	661.5	2,252.2	0.00	0.00	0.00
15,800.0	90.00	179.59	12,985.0	-2,300.9	662.2	2,351.9	0.00	0.00	0.00
15,900.0	90.00	179.59	12,985.0	-2,400.9	662.9	2,451.5	0.00	0.00	0.00
16,000.0	90.00	179.59	12,985.0	-2,500.9	663.6	2,551.1	0.00	0.00	0.00
16,100.0	90.00	179.59	12,985.0	-2,600.9	664.3	2,650.8	0.00	0.00	0.00
16,200.0	90.00	179.59	12,985.0	-2,700.9	665.0	2,750.4	0.00	0.00	0.00
16,300.0	90.00	179.59	12,985.0	-2,800.9	665.7	2,850.1	0.00	0.00	0.00
16,400.0	90.00	179.59	12,985.0	-2,900.9	666.4	2,949.7	0.00	0.00	0.00
16,500.0	90.00	179.59	12,985.0	-3,000.9	667.2	3,049.4	0.00	0.00	0.00
16,600.0	90.00	179.59	12,985.0	-3,100.9	667.9	3,149.0	0.00	0.00	0.00
16,700.0	90.00	179.59	12,985.0	-3,200.9	668.6	3,248.6	0.00	0.00	0.00
16,800.0	90.00	179.59	12,985.0	-3,300.9	669.3	3,348.3	0.00	0.00	0.00
16,900.0	90.00	179.59	12,985.0	-3,400.9	670.0	3,447.9	0.00	0.00	0.00
17,000.0	90.00	179.59	12,985.0	-3,500.9	670.7	3,547.6	0.00	0.00	0.00
17,100.0	90.00	179.59	12,985.0	-3,600.9	671.4	3,647.2	0.00	0.00	0.00
17,200.0	90.00	179.59	12,985.0	-3,700.9	672.1	3,746.9	0.00	0.00	0.00
17,300.0	90.00	179.59	12,985.0	-3,800.9	672.8	3,846.5	0.00	0.00	0.00
17,400.0	90.00	179.59	12,985.0	-3,900.9	673.6	3,946.1	0.00	0.00	0.00
17,500.0	90.00	179.59	12,985.0	-4,000.9	674.3	4,045.8	0.00	0.00	0.00
17,600.0	90.00	179.59	12,985.0	-4,100.9	675.0	4,145.4	0.00	0.00	0.00
17,700.0	90.00	179.59	12,985.0	-4,200.9	675.7	4,245.1	0.00	0.00	0.00
17,800.0	90.00	179.59	12,985.0	-4,300.9	676.4	4,344.7	0.00	0.00	0.00
17,900.0	90.00	179.59	12,985.0	-4,400.9	677.1	4,444.4	0.00	0.00	0.00
18,000.0	90.00	179.59	12,985.0	-4,500.9	677.8	4,544.0	0.00	0.00	0.00
18,100.0	90.00	179.59	12,985.0	-4,600.9	678.5	4,643.7	0.00	0.00	0.00
18,200.0	90.00	179.59	12,985.0	-4,700.9	679.3	4,743.3	0.00	0.00	0.00
18,300.0	90.00	179.59	12,985.0	-4,800.9	680.0	4,842.9	0.00	0.00	0.00
18,400.0	90.00	179.59	12,985.0	-4,900.9	680.7	4,942.6	0.00	0.00	0.00
18,500.0	90.00	179.59	12,985.0	-5,000.9	681.4	5,042.2	0.00	0.00	0.00
18,600.0	90.00	179.59	12,985.0	-5,100.9	682.1	5,141.9	0.00	0.00	0.00
18,700.0	90.00	179.59	12,985.0	-5,200.8	682.8	5,241.5	0.00	0.00	0.00



EOG Resources

Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #742H
Company:	EOG Resources - Midland	TVD Reference:	KB = 32' @ 3338.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 32' @ 3338.0usft
Site:	Ophelia 22 Fed Com	North Reference:	Grid
Well:	#742H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)	
18,800.0	90.00	179.59	12,985.0	-5,300.8	683.5	5,341.2	0.00	0.00	0.00	
18,900.0	90.00	179.59	12,985.0	-5,400.8	684.2	5,440.8	0.00	0.00	0.00	
19,000.0	90.00	179.59	12,985.0	-5,500.8	684.9	5,540.4	0.00	0.00	0.00	
19,100.0	90.00	179.59	12,985.0	-5,600.8	685.7	5,640.1	0.00	0.00	0.00	
19,200.0	90.00	179.59	12,985.0	-5,700.8	686.4	5,739.7	0.00	0.00	0.00	
19,300.0	90.00	179.59	12,985.0	-5,800.8	687.1	5,839.4	0.00	0.00	0.00	
19,400.0	90.00	179.59	12,985.0	-5,900.8	687.8	5,939.0	0.00	0.00	0.00	
19,500.0	90.00	179.59	12,985.0	-6,000.8	688.5	6,038.7	0.00	0.00	0.00	
19,600.0	90.00	179.59	12,985.0	-6,100.8	689.2	6,138.3	0.00	0.00	0.00	
19,700.0	90.00	179.59	12,985.0	-6,200.8	689.9	6,237.9	0.00	0.00	0.00	
19,800.0	90.00	179.59	12,985.0	-6,300.8	690.6	6,337.6	0.00	0.00	0.00	
19,900.0	90.00	179.59	12,985.0	-6,400.8	691.3	6,437.2	0.00	0.00	0.00	
20,000.0	90.00	179.59	12,985.0	-6,500.8	692.1	6,536.9	0.00	0.00	0.00	
20,100.0	90.00	179.59	12,985.0	-6,600.8	692.8	6,636.5	0.00	0.00	0.00	
20,200.0	90.00	179.59	12,985.0	-6,700.8	693.5	6,736.2	0.00	0.00	0.00	
20,300.0	90.00	179.59	12,985.0	-6,800.8	694.2	6,835.8	0.00	0.00	0.00	
20,400.0	90.00	179.59	12,985.0	-6,900.8	694.9	6,935.4	0.00	0.00	0.00	
20,500.0	90.00	179.59	12,985.0	-7,000.8	695.6	7,035.1	0.00	0.00	0.00	
20,600.0	90.00	179.59	12,985.0	-7,100.8	696.3	7,134.7	0.00	0.00	0.00	
20,700.0	90.00	179.59	12,985.0	-7,200.8	697.0	7,234.4	0.00	0.00	0.00	
20,800.0	90.00	179.59	12,985.0	-7,300.8	697.7	7,334.0	0.00	0.00	0.00	
20,900.0	90.00	179.59	12,985.0	-7,400.8	698.5	7,433.7	0.00	0.00	0.00	
21,000.0	90.00	179.59	12,985.0	-7,500.8	699.2	7,533.3	0.00	0.00	0.00	
21,100.0	90.00	179.59	12,985.0	-7,600.8	699.9	7,632.9	0.00	0.00	0.00	
21,117.2	90.00	179.59	12,985.0	-7,618.0	700.0	7,650.1	0.00	0.00	0.00	
PBHL (Ophelia 22 Fed Com #742H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
KOP (Ophelia 22 Fed Co - plan hits target center - Point	0.00	0.00	12,507.5	677.0	641.0	378,239.00	780,146.00	32.0375168°N		103.5626499°W
PBHL (Ophelia 22 Fed Co - plan hits target center - Point	0.00	0.00	12,985.0	-7,618.0	700.0	369,944.00	780,205.00	32.0147148°N		103.5626505°W
FTP (Ophelia 22 Fed Co - plan misses target center by 0.1usft at 13395.0usft MD (12985.0 TVD, 104.0 N, 645.1 E) - Point	0.00	0.00	12,985.0	104.0	645.0	377,666.00	780,150.00	32.0359417°N		103.5626502°W

10,000 PSI BOP Annular Variance Request

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

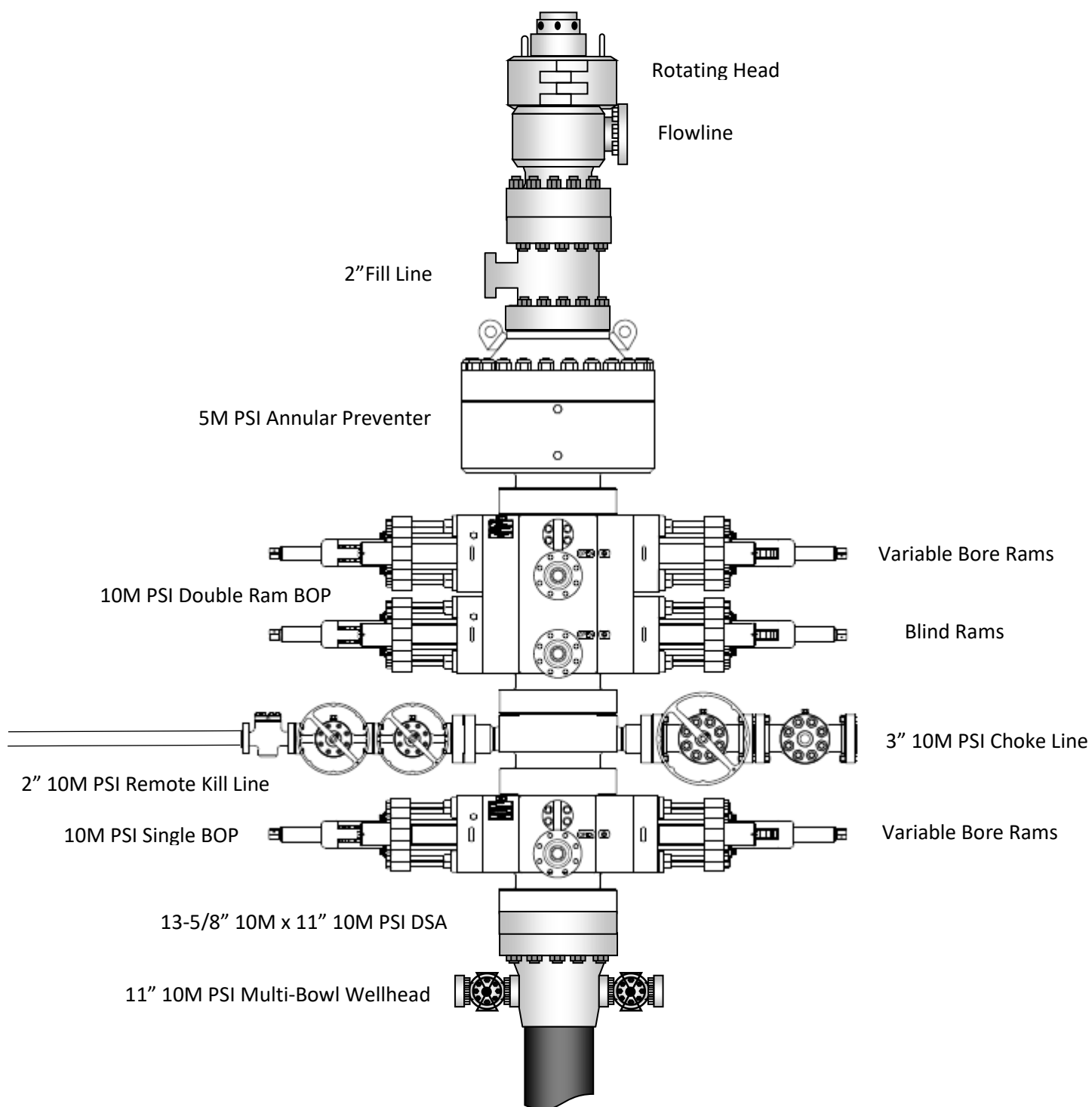
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

9-7/8" & 8-3/4" Intermediate Hole Section 10M psi requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	6.500 – 8.000"	Annular	5M	-	-
Mud Motor	6.750 – 8.000"	Annular	5M	-	-
Intermediate casing	7.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

6-3/4" Production Hole Section 10M psi requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Mud Motor	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Mud Motor	5.500 – 5.750"	Annular	5M	-	-
Production casing	5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Open-hole	-	Blind Rams	10M	-	-

VBR = Variable Bore Ram

EOG Resources 11" 10M PSI BOP Stack



2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 100% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string

4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

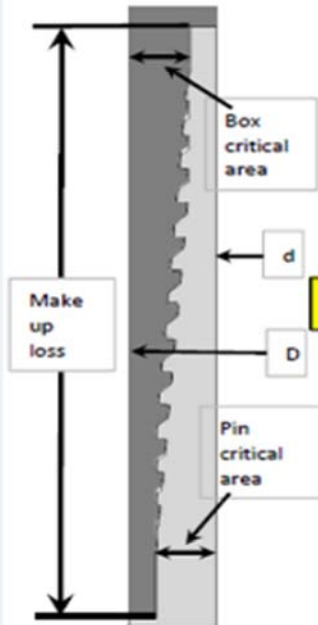
General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams.
 - e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams.
 - d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP

- ii. Pit gain
 - iii. Time
 - h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram.
 - f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan

Metal One Corp. Metal One	MO-FXL Connection Data Sheet	Page	MCTP	
		Date	3-Nov-16	
		Rev.	0	

MO-FXL

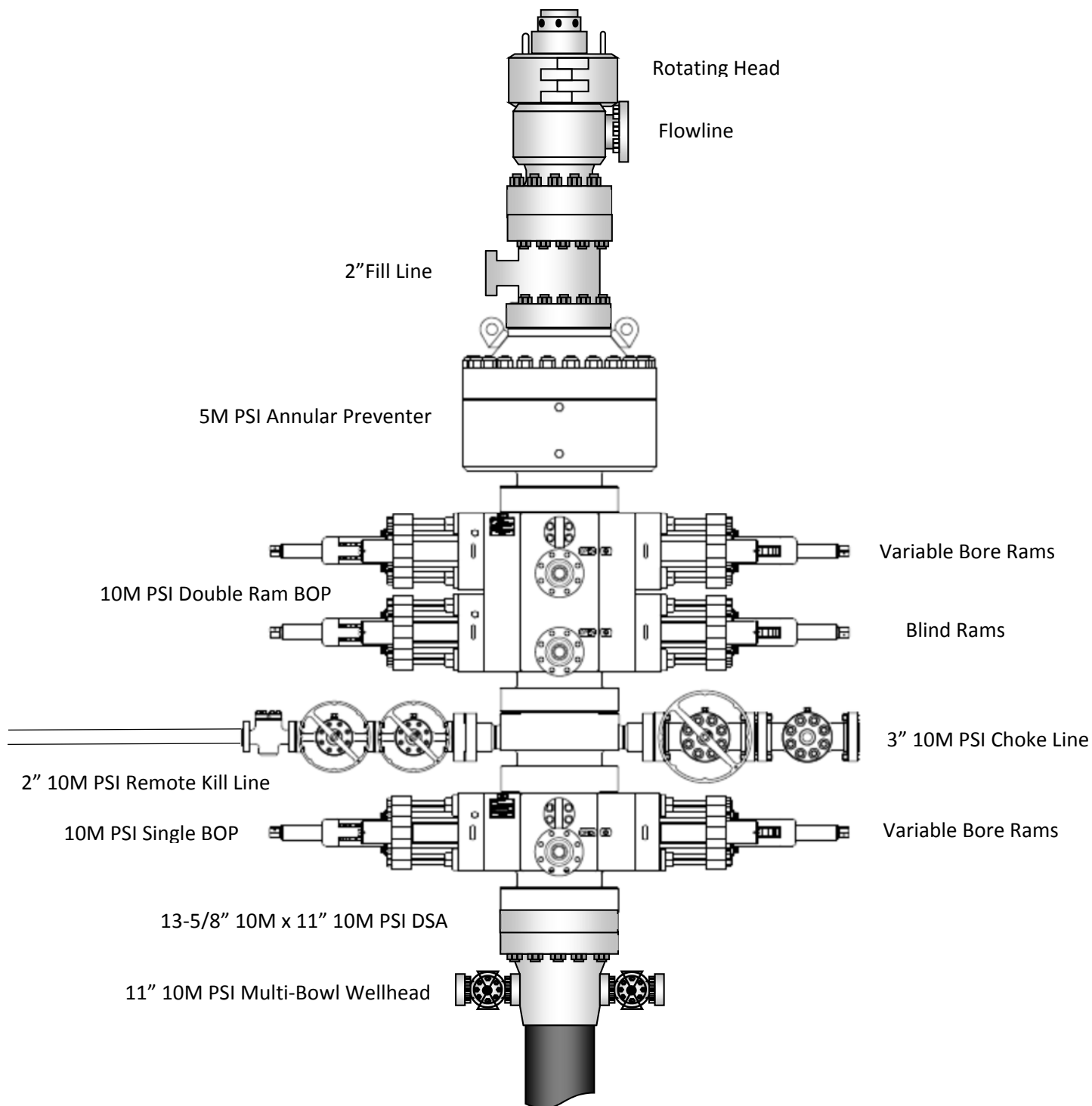


Geometry	Imperial		S.I.	
Pipe Body				
Grade	P110HC *1		P110HC *1	
Pipe OD (D)	7 5/8	in	193.68	mm
Weight	29.70	lb/ft	44.25	kg/m
Actual weight	29.04		43.26	kg/m
Wall Thickness (t)	0.375	in	9.53	mm
Pipe ID (d)	6.875	in	174.63	mm
Pipe body cross section	8.537	in ²	5,508	mm ²
Drift Dia.	6.750	in	171.45	mm
Connection				
Box OD (W)	7.625	in	193.68	mm
PIN ID	6.875	in	174.63	mm
Make up Loss	4.219	in	107.16	mm
Box Critical Area	5.714	in ²	3686	mm ²
Joint load efficiency	70	%	70	%
Thread Taper	1 / 10 (1.2" per ft)			
Number of Threads	5 TPI			
Performance				
Performance Properties for Pipe Body				
S.M.Y.S. *1	1,067	kips	4,747	kN
M.I.Y.P. *1	10,760	psi	74.21	MPa
Collapse Strength *1	7,360	psi	50.76	MPa
Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body *1 Based on VSB P110HC (YS=125~140ksi)				
Performance Properties for Connection				
Tensile Yield load	747 kips (70% of S.M.Y.S.)			
Min. Compression Yield	747 kips (70% of S.M.Y.S.)			
Internal Pressure	8,610 psi (80% of M.I.Y.P.)			
External Pressure	100% of Collapse Strength			
Max. DLS (deg. /100ft)	40			
Recommended Torque				
Min.	15,500	ft-lb	21,000	N-m
Opti.	17,200	ft-lb	23,300	N-m
Max.	18,900	ft-lb	25,600	N-m
Operational Max.	23,600	ft-lb	32,000	N-m
Note : Operational Max. torque can be applied for high torque application				

Exhibit 1

EOG Resources

11" 10M PSI BOP Stack



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 23989

CONDITIONS OF APPROVAL

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	23989	Action Type:	C-103A
OCD Reviewer									Condition
pkautz									None