

Well Name: DIRE WOLF 12 FED	Well Location: T26S / R30E / SEC 12 / NWSE / 32.056167 / -103.831389	County or Parish/State: EDDY / NM
Well Number: 704H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM94610	Unit or CA Name:	Unit or CA Number:
US Well Number: 300154761600X1	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: 02/17/2021	Time Sundry Submitted: 01:03
Date proposed operation will begin: 02/23/2021	
Procedure Description: EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Change BHL to T-26-S R-30-E Sec 13 230 feet FSL 1485 feet FEL Eddy Co, NM	

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

- Procedure Description
- Dire_Wolf_12_Fed_704H_Wall_Plot_20210217130332.pdf
 - Dire_Wolf_12_Fed_704H_Permit_Des___Rev_BHL_2.11.2021_20210217130305.pdf
 - Dire_Wolf_12_Fed_704H_Planning_Report_20210217125935.pdf
 - Dire_Wolf_12_Fed_704H_C_102_20210217125848.pdf

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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: HARRELL	Signed on: FEB 17, 2021 01:03 PM
Name: EOG RESOURCES INCORPORATED	
Title: Regulatory Specialist	
Street Address: NOT ENTERED	
City: NOT ENTERED	State: NOT ENTERED
Phone: (303) 572-9000	
Email address: NOT ENTERED	

Field Representative

Representative Name: Star Harrell		
Street Address: 5509 CHAMPIONS DRIVE		
City: MIDLAND	State: TX	Zip: 79706
Phone: (432)848-9161		
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: Approved	Disposition Date: 02/23/2021
Signature: Chris Walls	

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) 476-3460 Fax: (505) 476-3462

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

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 47616	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 329773	Property Name DIRE WOLF 12 FED	Well Number 704H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3194'

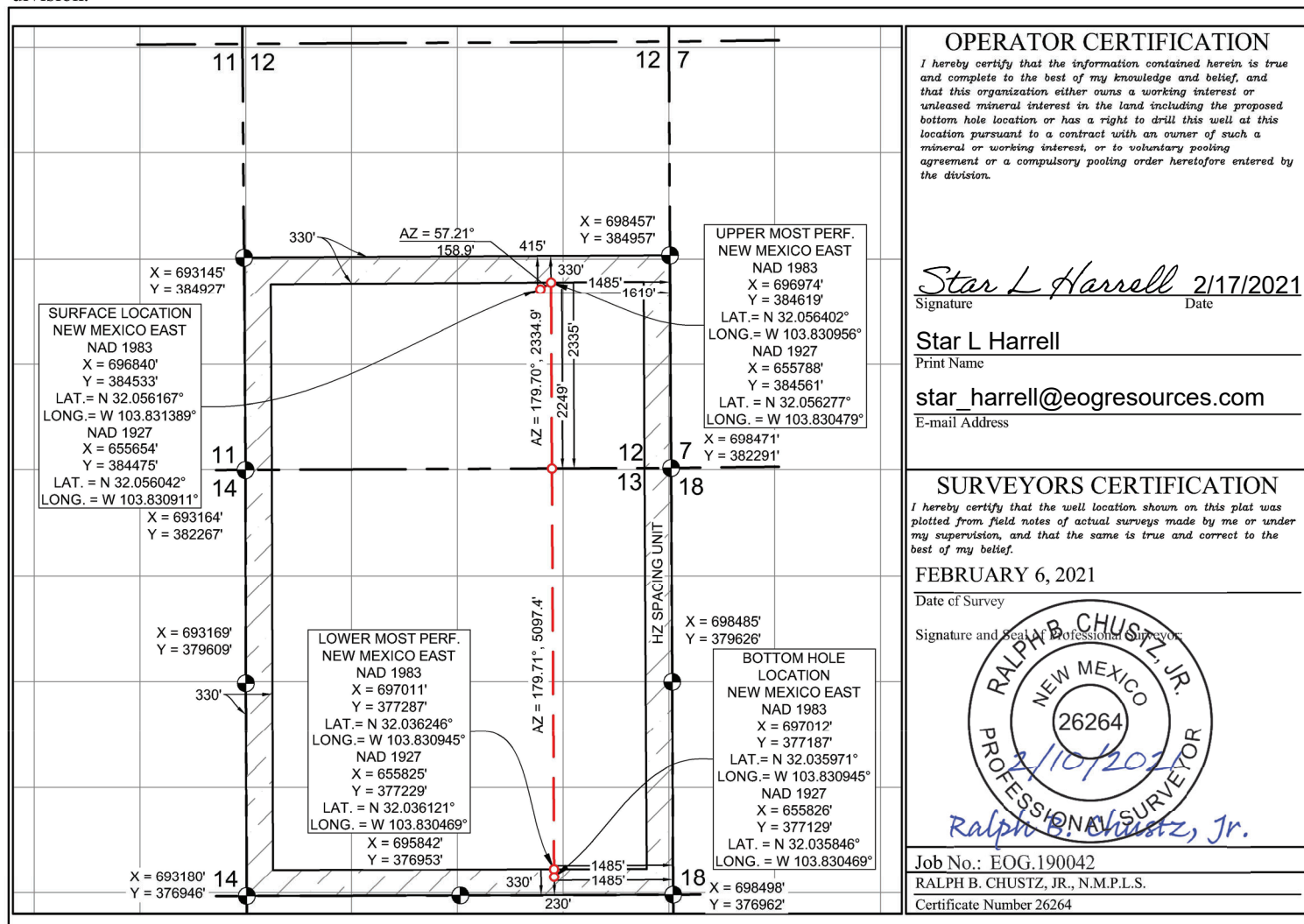
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	12	26 S	30 E		2249	SOUTH	1619	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no. O	Section 13	Township 26 S	Range 30 E	Lot Idn	Feet from the	North/South line SOUTH	Feet from the	East/West line EAST	County EDDY
Dedicated Acres 960.00		Joint or Infill	Consolidated Code		Order No.				

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.



**EOG RESOURCES, INC.
DIRE WOLF 12 FED #704H**

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,185'
Tamarisk Anhydrite	1,261'
Top of Salt	1,570'
Base of Salt (Capitan)	3,808'
Lamar	3,941'
Bell Canyon	3,968'
Cherry Canyon	4,868'
Brushy Canyon	5,993'
Bone Spring Lime	7,813'
Leonard A Shale	7,896'
1 st Bone Spring Sand	8,752'
2 nd Bone Spring Shale	9,080'
2 nd Bone Spring Sand	9,402'
3 rd Bone Spring Carb	9,860'
3 rd Bone Spring Sand	10,680'
Wolfcamp	11,069'
TD	11,189'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	4,868'	Oil
Brushy Canyon	5,993'	Oil
1 st Bone Spring Sand	8,752'	Oil
2 nd Bone Spring Shale	9,080'	Oil
2 nd Bone Spring Sand	9,402'	Oil
3 rd Bone Spring Carb	9,860'	Oil
3 rd Bone Spring Sand	10,680'	Oil
Wolfcamp	11,069'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9.625" casing at 1,290' and circulating cement back to surface.

**EOG RESOURCES, INC.
DIRE WOLF 12 FED #704H**

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0' – 1,290'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 9,960'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 9,460'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	9,460' – 9,960'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	9,960' – 18,743'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60

Variance is requested to waive the centralizer requirements for the 7-5/8" FJ 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 waive any centralizer requirements for the 5-1/2" FJ 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.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

EOG requests permission 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.

EOG Resources also requests approval to implement Casing Design B (pg. 8-9). BLM will be notified of elected design at spud.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,290' 9-5/8"	1,160	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 @ 1,090')
9,960' 7-5/8"	510	14.2	1.11	1 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 5,800')
	1,000	12.7	2.30	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
18,743' 5-1/2"	750	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,460')

**EOG RESOURCES, INC.
DIRE WOLF 12 FED #704H**

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 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 top of cement at the Brushy Canyon (5,993') 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. The final cement top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top 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.

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top.

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DIRE WOLF 12 FED #704H**

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

Pipe rams and blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,290'	Fresh - Gel	8.6-8.8	28-34	N/c
1,290' – 9,960'	Brine	10.0-10.2	28-34	N/c
9,960' – 10,717'	Oil Base	8.7-9.4	58-68	N/c - 6
10,717' – 18,743' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be utilized.

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

**EOG RESOURCES, INC.
DIRE WOLF 12 FED #704H**

GR-CCL Will be run in cased hole during completions phase of operations.

**9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND
POTENTIAL HAZARDS:**

The estimated bottom-hole temperature (BHT) at TD is 182 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 8,146 psig and a maximum anticipated surface pressure of 5,684 psig (based on 14.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

(A) EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1000 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 9-5/8" surface casing, a 9-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

**EOG RESOURCES, INC.
DIRE WOLF 12 FED #704H**

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

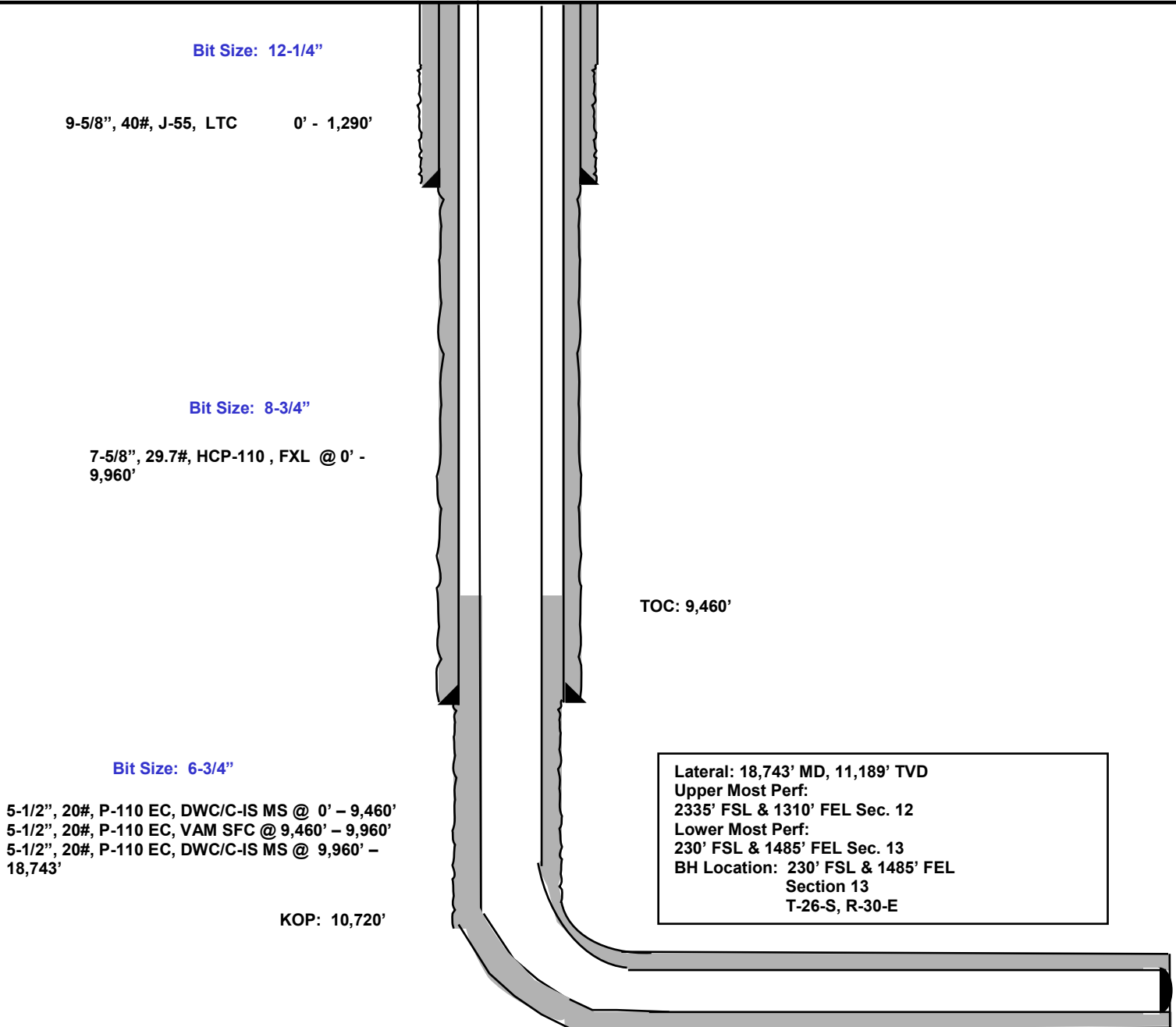
EOG RESOURCES, INC.
DIRE WOLF 12 FED #704H

2249' FSL
1619' FEL
Section 12
T-26-S, R-30-E

Proposed Wellbore
Design A

KB: 3,219'
GL: 3,194'

API: 30-015-47616



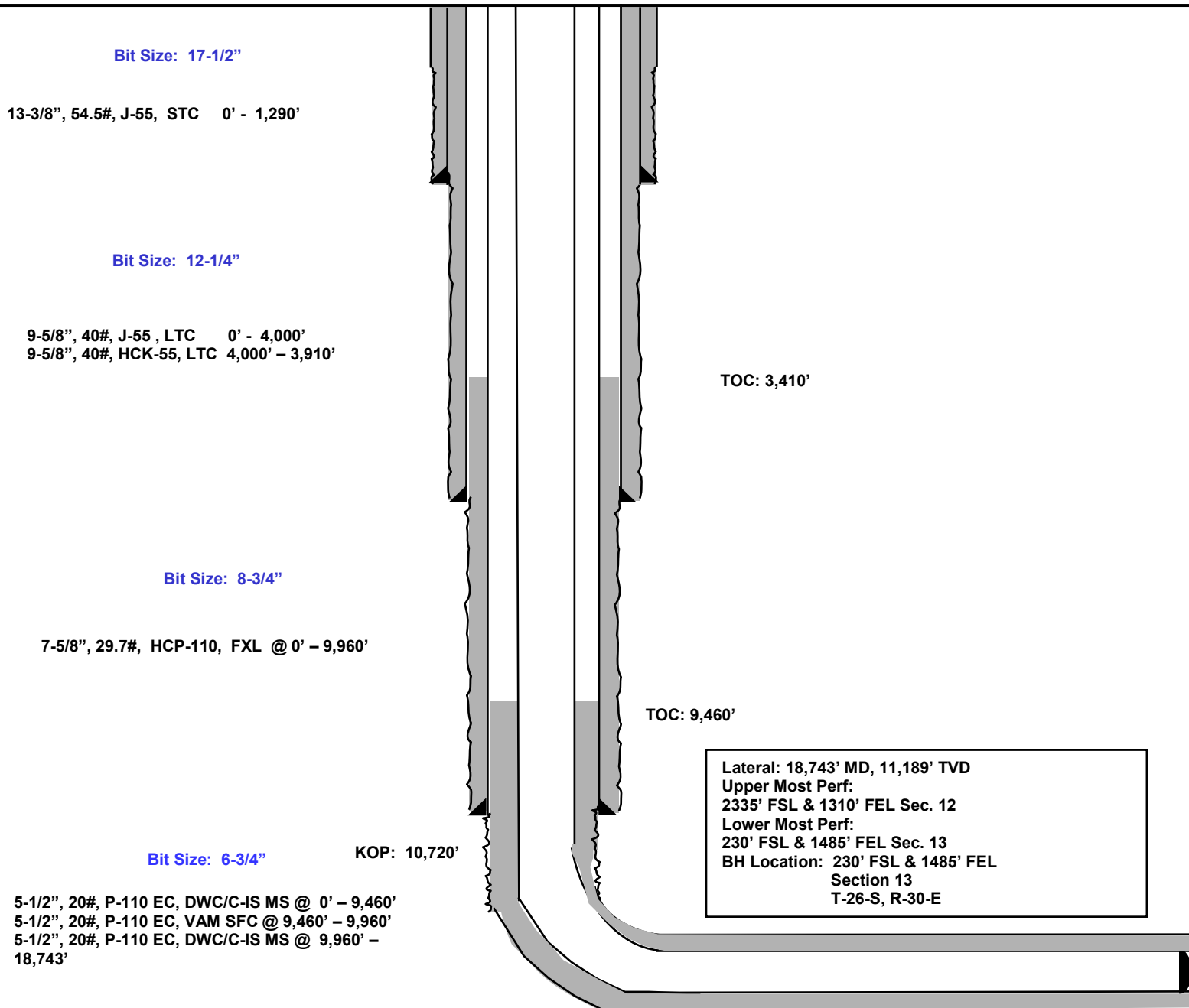
**EOG RESOURCES, INC.
DIRE WOLF 12 FED #704H**

**2249' FSL
1619' FEL
Section 12
T-26-S, R-30-E**

**Proposed Wellbore
Design B**

**KB: 3,219'
GL: 3,194'**

API: 30-025-*****



**EOG RESOURCES, INC.
DIRE WOLF 12 FED #704H**

Design B**Casing Program:**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 – 1,290'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0 – 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000' – 3,910'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0 – 9,960'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 9,460'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	9,460'–9,960'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	9,960' – 18,743'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60

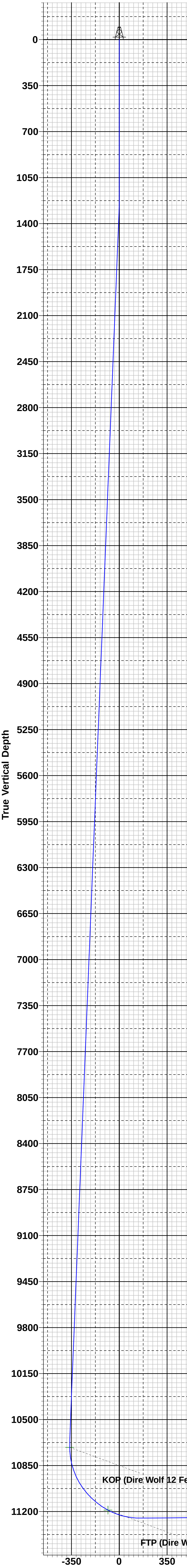
Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /sk	Slurry Description
1,290' 13-3/8"	790	13.5	1.74	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.35	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,090')
3,910' 9-5/8"	610	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	260	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3,100')
9,960' 7-5/8"	190	10.8	3.67	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 3,410')
	100	14.8	2.38	Tail: Class H + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 8,460')
18,743' 5-1/2"	750	14.8	1.31	Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,460')

As a contingency, EOG requests 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 top of cement at the Brushy Canyon (5,993') 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.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,290'	Fresh - Gel	8.6-8.8	28-34	N/c
1,290' – 3,910'	Brine	10.0-10.2	28-34	N/c
3,910' – 9,960'	Oil Base	8.7-9.4	58-68	N/c - 6
9,960' – 18,743' Lateral	Oil Base	10.0-14.0	58-68	3 - 6



To convert a Magnetic Direction to a Grid Direction, Add 6.49°
To convert a Magnetic Direction to a True Direction, Add 6.76° East
To convert a True Direction to a Grid Direction, Subtract 0.27°

WELL DETAILS: #704H				
KB = 25' @ 3219.0usft				
3194.0				
Northings	Easting	Latitude	Longitude	
384533.00	696840.00	32° 3' 22.202 N	103° 49' 53.003 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	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1318.8	2.38	20.11	1318.8	2.3	0.8	2.00	20.11	-2.3	
4	10600.7	2.38	20.11	10592.7	363.7	133.2	0.00	0.00	-360.5	
5	10719.5	0.00	0.00	10711.5	366.0	134.0	2.00	180.00	-362.8	KOP (Dire Wolf 12 Fed #704H)
6	11299.9	60.77	180.00	11189.0	86.0	134.0	10.47	180.00	-82.8	FTP (Dire Wolf 12 Fed #704H)
7	11547.5	90.48	179.70	11249.8	-151.2	134.7	12.00	-0.60	154.3	
8	18742.7	90.48	179.70	11189.0	-7346.0	172.0	0.00	0.00	7348.0	PBHL (Dire Wolf 12 Fed #704H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northings	Easting
KOP (Dire Wolf 12 Fed #704H)	10711.5	366.0	134.0	384899.00	696974.00
FTP (Dire Wolf 12 Fed #704H)	11189.0	86.0	134.0	384619.00	696974.00
PBHL (Dire Wolf 12 Fed #704H)	11189.0	-7346.0	172.0	377187.00	697012.00

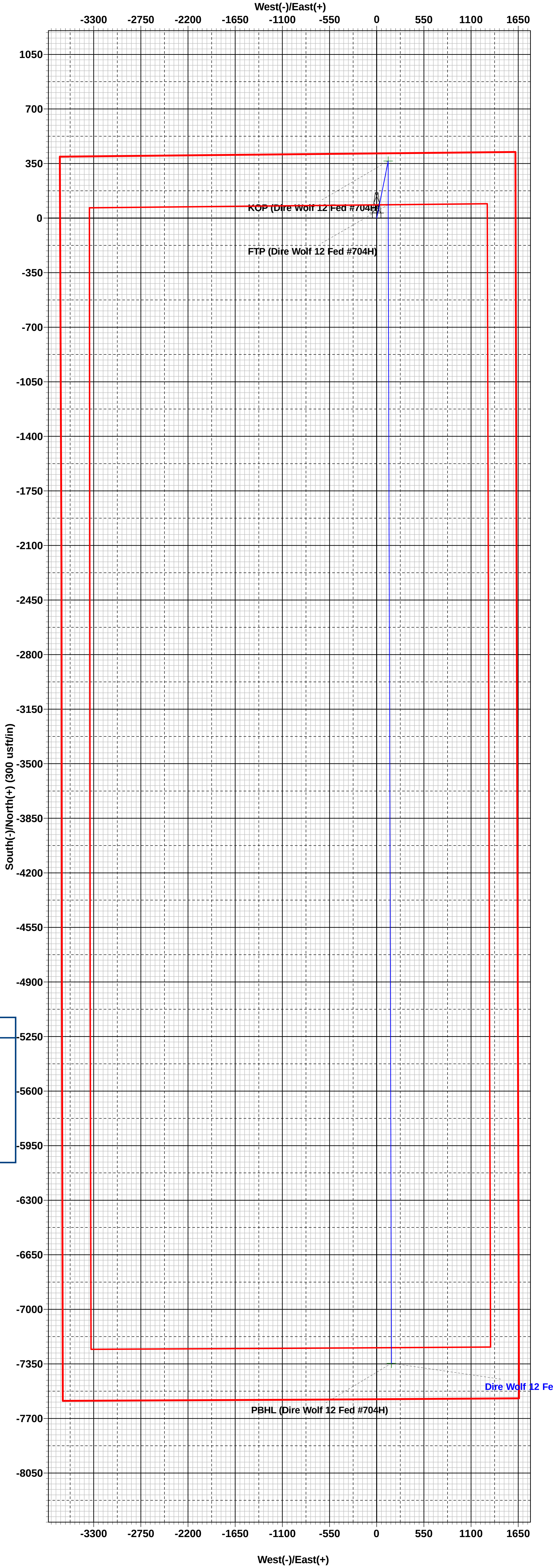
Eddy County, NM (NAD 83 NME)

Dire Wolf 12 Fed #704H

Plan #0.1

PROJECT DETAILS: Eddy 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





EOG Resources - Midland

Eddy County, NM (NAD 83 NME)

Dire Wolf 12 Fed

#704H

OH

Plan: Plan #0.1

Standard Planning Report

12 February, 2021



EOG Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3219.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3219.0usft
Site:	Dire Wolf 12 Fed	North Reference:	Grid
Well:	#704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project	Eddy 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	Dire Wolf 12 Fed					
Site Position:		Northing:	384,633.00 usft	Latitude:	32° 3' 23.153 N	
From:	Map	Easting:	697,688.00 usft	Longitude:	103° 49' 43.144 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.27 °

Well	#704H					
Well Position	+N/-S	-100.0 usft	Northing:	384,533.00 usft	Latitude:	32° 3' 22.202 N
	+E/-W	-848.0 usft	Easting:	696,840.00 usft	Longitude:	103° 49' 53.003 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,194.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/26/2020	6.76	59.83	47,528.43924774

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	178.66

Plan Survey Tool Program	Date	2/12/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,742.7 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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,318.8	2.38	20.11	1,318.8	2.3	0.8	2.00	2.00	0.00	20.11	
10,600.7	2.38	20.11	10,592.7	363.7	133.2	0.00	0.00	0.00	0.00	
10,719.5	0.00	0.00	10,711.5	366.0	134.0	2.00	-2.00	0.00	180.00	KOP (Dire Wolf 12 Fe
11,299.9	60.77	180.00	11,189.0	86.0	134.0	10.47	10.47	31.01	180.00	FTP (Dire Wolf 12 Fe
11,547.5	90.48	179.70	11,249.8	-151.2	134.7	12.00	12.00	-0.12	-0.60	
18,742.7	90.48	179.70	11,189.0	-7,346.0	172.0	0.00	0.00	0.00	0.00	PBHL (Dire Wolf 12 F

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3219.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3219.0usft
Site:	Dire Wolf 12 Fed	North Reference:	Grid
Well:	#704H	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	2.00	20.11	1,300.0	1.6	0.6	-1.6	2.00	2.00	0.00
1,318.8	2.38	20.11	1,318.8	2.3	0.8	-2.3	2.00	2.00	0.00
1,400.0	2.38	20.11	1,399.9	5.5	2.0	-5.4	0.00	0.00	0.00
1,500.0	2.38	20.11	1,499.8	9.4	3.4	-9.3	0.00	0.00	0.00
1,600.0	2.38	20.11	1,599.7	13.3	4.9	-13.1	0.00	0.00	0.00
1,700.0	2.38	20.11	1,699.6	17.2	6.3	-17.0	0.00	0.00	0.00
1,800.0	2.38	20.11	1,799.6	21.0	7.7	-20.9	0.00	0.00	0.00
1,900.0	2.38	20.11	1,899.5	24.9	9.1	-24.7	0.00	0.00	0.00
2,000.0	2.38	20.11	1,999.4	28.8	10.6	-28.6	0.00	0.00	0.00
2,100.0	2.38	20.11	2,099.3	32.7	12.0	-32.4	0.00	0.00	0.00
2,200.0	2.38	20.11	2,199.2	36.6	13.4	-36.3	0.00	0.00	0.00
2,300.0	2.38	20.11	2,299.1	40.5	14.8	-40.2	0.00	0.00	0.00
2,400.0	2.38	20.11	2,399.0	44.4	16.3	-44.0	0.00	0.00	0.00
2,500.0	2.38	20.11	2,499.0	48.3	17.7	-47.9	0.00	0.00	0.00
2,600.0	2.38	20.11	2,598.9	52.2	19.1	-51.7	0.00	0.00	0.00
2,700.0	2.38	20.11	2,698.8	56.1	20.5	-55.6	0.00	0.00	0.00
2,800.0	2.38	20.11	2,798.7	60.0	22.0	-59.4	0.00	0.00	0.00
2,900.0	2.38	20.11	2,898.6	63.9	23.4	-63.3	0.00	0.00	0.00
3,000.0	2.38	20.11	2,998.5	67.8	24.8	-67.2	0.00	0.00	0.00
3,100.0	2.38	20.11	3,098.4	71.7	26.2	-71.0	0.00	0.00	0.00
3,200.0	2.38	20.11	3,198.3	75.6	27.7	-74.9	0.00	0.00	0.00
3,300.0	2.38	20.11	3,298.3	79.4	29.1	-78.7	0.00	0.00	0.00
3,400.0	2.38	20.11	3,398.2	83.3	30.5	-82.6	0.00	0.00	0.00
3,500.0	2.38	20.11	3,498.1	87.2	31.9	-86.5	0.00	0.00	0.00
3,600.0	2.38	20.11	3,598.0	91.1	33.4	-90.3	0.00	0.00	0.00
3,700.0	2.38	20.11	3,697.9	95.0	34.8	-94.2	0.00	0.00	0.00
3,800.0	2.38	20.11	3,797.8	98.9	36.2	-98.0	0.00	0.00	0.00
3,900.0	2.38	20.11	3,897.7	102.8	37.6	-101.9	0.00	0.00	0.00
4,000.0	2.38	20.11	3,997.7	106.7	39.1	-105.8	0.00	0.00	0.00
4,100.0	2.38	20.11	4,097.6	110.6	40.5	-109.6	0.00	0.00	0.00
4,200.0	2.38	20.11	4,197.5	114.5	41.9	-113.5	0.00	0.00	0.00
4,300.0	2.38	20.11	4,297.4	118.4	43.3	-117.3	0.00	0.00	0.00
4,400.0	2.38	20.11	4,397.3	122.3	44.8	-121.2	0.00	0.00	0.00
4,500.0	2.38	20.11	4,497.2	126.2	46.2	-125.1	0.00	0.00	0.00
4,600.0	2.38	20.11	4,597.1	130.1	47.6	-128.9	0.00	0.00	0.00
4,700.0	2.38	20.11	4,697.1	134.0	49.0	-132.8	0.00	0.00	0.00
4,800.0	2.38	20.11	4,797.0	137.8	50.5	-136.6	0.00	0.00	0.00
4,900.0	2.38	20.11	4,896.9	141.7	51.9	-140.5	0.00	0.00	0.00
5,000.0	2.38	20.11	4,996.8	145.6	53.3	-144.3	0.00	0.00	0.00
5,100.0	2.38	20.11	5,096.7	149.5	54.7	-148.2	0.00	0.00	0.00
5,200.0	2.38	20.11	5,196.6	153.4	56.2	-152.1	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3219.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3219.0usft
Site:	Dire Wolf 12 Fed	North Reference:	Grid
Well:	#704H	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	2.38	20.11	5,296.5	157.3	57.6	-155.9	0.00	0.00	0.00	
5,400.0	2.38	20.11	5,396.5	161.2	59.0	-159.8	0.00	0.00	0.00	
5,500.0	2.38	20.11	5,496.4	165.1	60.4	-163.6	0.00	0.00	0.00	
5,600.0	2.38	20.11	5,596.3	169.0	61.9	-167.5	0.00	0.00	0.00	
5,700.0	2.38	20.11	5,696.2	172.9	63.3	-171.4	0.00	0.00	0.00	
5,800.0	2.38	20.11	5,796.1	176.8	64.7	-175.2	0.00	0.00	0.00	
5,900.0	2.38	20.11	5,896.0	180.7	66.1	-179.1	0.00	0.00	0.00	
6,000.0	2.38	20.11	5,995.9	184.6	67.6	-182.9	0.00	0.00	0.00	
6,100.0	2.38	20.11	6,095.9	188.5	69.0	-186.8	0.00	0.00	0.00	
6,200.0	2.38	20.11	6,195.8	192.4	70.4	-190.7	0.00	0.00	0.00	
6,300.0	2.38	20.11	6,295.7	196.2	71.8	-194.5	0.00	0.00	0.00	
6,400.0	2.38	20.11	6,395.6	200.1	73.3	-198.4	0.00	0.00	0.00	
6,500.0	2.38	20.11	6,495.5	204.0	74.7	-202.2	0.00	0.00	0.00	
6,600.0	2.38	20.11	6,595.4	207.9	76.1	-206.1	0.00	0.00	0.00	
6,700.0	2.38	20.11	6,695.3	211.8	77.6	-209.9	0.00	0.00	0.00	
6,800.0	2.38	20.11	6,795.3	215.7	79.0	-213.8	0.00	0.00	0.00	
6,900.0	2.38	20.11	6,895.2	219.6	80.4	-217.7	0.00	0.00	0.00	
7,000.0	2.38	20.11	6,995.1	223.5	81.8	-221.5	0.00	0.00	0.00	
7,100.0	2.38	20.11	7,095.0	227.4	83.3	-225.4	0.00	0.00	0.00	
7,200.0	2.38	20.11	7,194.9	231.3	84.7	-229.2	0.00	0.00	0.00	
7,300.0	2.38	20.11	7,294.8	235.2	86.1	-233.1	0.00	0.00	0.00	
7,400.0	2.38	20.11	7,394.7	239.1	87.5	-237.0	0.00	0.00	0.00	
7,500.0	2.38	20.11	7,494.7	243.0	89.0	-240.8	0.00	0.00	0.00	
7,600.0	2.38	20.11	7,594.6	246.9	90.4	-244.7	0.00	0.00	0.00	
7,700.0	2.38	20.11	7,694.5	250.8	91.8	-248.5	0.00	0.00	0.00	
7,800.0	2.38	20.11	7,794.4	254.6	93.2	-252.4	0.00	0.00	0.00	
7,900.0	2.38	20.11	7,894.3	258.5	94.7	-256.3	0.00	0.00	0.00	
8,000.0	2.38	20.11	7,994.2	262.4	96.1	-260.1	0.00	0.00	0.00	
8,100.0	2.38	20.11	8,094.1	266.3	97.5	-264.0	0.00	0.00	0.00	
8,200.0	2.38	20.11	8,194.0	270.2	98.9	-267.8	0.00	0.00	0.00	
8,300.0	2.38	20.11	8,294.0	274.1	100.4	-271.7	0.00	0.00	0.00	
8,400.0	2.38	20.11	8,393.9	278.0	101.8	-275.5	0.00	0.00	0.00	
8,500.0	2.38	20.11	8,493.8	281.9	103.2	-279.4	0.00	0.00	0.00	
8,600.0	2.38	20.11	8,593.7	285.8	104.6	-283.3	0.00	0.00	0.00	
8,700.0	2.38	20.11	8,693.6	289.7	106.1	-287.1	0.00	0.00	0.00	
8,800.0	2.38	20.11	8,793.5	293.6	107.5	-291.0	0.00	0.00	0.00	
8,900.0	2.38	20.11	8,893.4	297.5	108.9	-294.8	0.00	0.00	0.00	
9,000.0	2.38	20.11	8,993.4	301.4	110.3	-298.7	0.00	0.00	0.00	
9,100.0	2.38	20.11	9,093.3	305.3	111.8	-302.6	0.00	0.00	0.00	
9,200.0	2.38	20.11	9,193.2	309.2	113.2	-306.4	0.00	0.00	0.00	
9,300.0	2.38	20.11	9,293.1	313.0	114.6	-310.3	0.00	0.00	0.00	
9,400.0	2.38	20.11	9,393.0	316.9	116.0	-314.1	0.00	0.00	0.00	
9,500.0	2.38	20.11	9,492.9	320.8	117.5	-318.0	0.00	0.00	0.00	
9,600.0	2.38	20.11	9,592.8	324.7	118.9	-321.9	0.00	0.00	0.00	
9,700.0	2.38	20.11	9,692.8	328.6	120.3	-325.7	0.00	0.00	0.00	
9,800.0	2.38	20.11	9,792.7	332.5	121.7	-329.6	0.00	0.00	0.00	
9,900.0	2.38	20.11	9,892.6	336.4	123.2	-333.4	0.00	0.00	0.00	
10,000.0	2.38	20.11	9,992.5	340.3	124.6	-337.3	0.00	0.00	0.00	
10,100.0	2.38	20.11	10,092.4	344.2	126.0	-341.1	0.00	0.00	0.00	
10,200.0	2.38	20.11	10,192.3	348.1	127.4	-345.0	0.00	0.00	0.00	
10,300.0	2.38	20.11	10,292.2	352.0	128.9	-348.9	0.00	0.00	0.00	
10,400.0	2.38	20.11	10,392.2	355.9	130.3	-352.7	0.00	0.00	0.00	
10,500.0	2.38	20.11	10,492.1	359.8	131.7	-356.6	0.00	0.00	0.00	
10,600.7	2.38	20.11	10,592.7	363.7	133.2	-360.5	0.00	0.00	0.00	

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3219.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3219.0usft
Site:	Dire Wolf 12 Fed	North Reference:	Grid
Well:	#704H	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	0.39	20.11	10,692.0	365.9	134.0	-362.7	2.00	-2.00	0.00	
10,719.5	0.00	0.00	10,711.5	366.0	134.0	-362.8	2.00	-2.00	0.00	
10,750.0	3.19	180.00	10,741.9	365.2	134.0	-361.9	10.47	10.47	0.00	
10,800.0	8.42	180.00	10,791.7	360.1	134.0	-356.9	10.47	10.47	0.00	
10,850.0	13.66	180.00	10,840.7	350.5	134.0	-347.3	10.47	10.47	0.00	
10,900.0	18.90	180.00	10,888.7	336.5	134.0	-333.3	10.47	10.47	0.00	
10,950.0	24.13	180.00	10,935.2	318.2	134.0	-315.0	10.47	10.47	0.00	
11,000.0	29.37	180.00	10,979.8	295.7	134.0	-292.5	10.47	10.47	0.00	
11,050.0	34.60	180.00	11,022.2	269.2	134.0	-266.0	10.47	10.47	0.00	
11,100.0	39.84	180.00	11,062.0	239.0	134.0	-235.8	10.47	10.47	0.00	
11,150.0	45.08	180.00	11,098.9	205.2	134.0	-202.0	10.47	10.47	0.00	
11,200.0	50.31	180.00	11,132.5	168.3	134.0	-165.1	10.47	10.47	0.00	
11,250.0	55.55	180.00	11,162.7	128.4	134.0	-125.2	10.47	10.47	0.00	
11,299.9	60.77	180.00	11,189.0	86.0	134.0	-82.8	10.47	10.47	0.00	
11,325.0	63.78	179.96	11,200.7	63.8	134.0	-60.6	12.00	12.00	-0.14	
11,350.0	66.78	179.93	11,211.1	41.1	134.0	-37.9	12.00	12.00	-0.13	
11,375.0	69.78	179.90	11,220.4	17.9	134.1	-14.7	12.00	12.00	-0.13	
11,400.0	72.78	179.87	11,228.4	-5.8	134.1	8.9	12.00	12.00	-0.12	
11,425.0	75.78	179.84	11,235.2	-29.9	134.2	33.0	12.00	12.00	-0.12	
11,450.0	78.78	179.81	11,240.7	-54.3	134.2	57.4	12.00	12.00	-0.12	
11,475.0	81.78	179.78	11,244.9	-78.9	134.3	82.0	12.00	12.00	-0.11	
11,500.0	84.78	179.75	11,247.8	-103.7	134.4	106.8	12.00	12.00	-0.11	
11,525.0	87.78	179.73	11,249.4	-128.7	134.5	131.8	12.00	12.00	-0.11	
11,547.5	90.48	179.70	11,249.8	-151.2	134.7	154.3	12.00	12.00	-0.11	
11,600.0	90.48	179.70	11,249.3	-203.7	134.9	206.8	0.00	0.00	0.00	
11,700.0	90.48	179.70	11,248.5	-303.6	135.4	306.7	0.00	0.00	0.00	
11,800.0	90.48	179.70	11,247.6	-403.6	136.0	406.7	0.00	0.00	0.00	
11,900.0	90.48	179.70	11,246.8	-503.6	136.5	506.7	0.00	0.00	0.00	
12,000.0	90.48	179.70	11,245.9	-603.6	137.0	606.7	0.00	0.00	0.00	
12,100.0	90.48	179.70	11,245.1	-703.6	137.5	706.7	0.00	0.00	0.00	
12,200.0	90.48	179.70	11,244.3	-803.6	138.0	806.6	0.00	0.00	0.00	
12,300.0	90.48	179.70	11,243.4	-903.6	138.6	906.6	0.00	0.00	0.00	
12,400.0	90.48	179.70	11,242.6	-1,003.6	139.1	1,006.6	0.00	0.00	0.00	
12,500.0	90.48	179.70	11,241.7	-1,103.6	139.6	1,106.6	0.00	0.00	0.00	
12,600.0	90.48	179.70	11,240.9	-1,203.6	140.1	1,206.6	0.00	0.00	0.00	
12,700.0	90.48	179.70	11,240.0	-1,303.6	140.6	1,306.5	0.00	0.00	0.00	
12,800.0	90.48	179.70	11,239.2	-1,403.6	141.2	1,406.5	0.00	0.00	0.00	
12,900.0	90.48	179.70	11,238.3	-1,503.6	141.7	1,506.5	0.00	0.00	0.00	
13,000.0	90.48	179.70	11,237.5	-1,603.6	142.2	1,606.5	0.00	0.00	0.00	
13,100.0	90.48	179.70	11,236.7	-1,703.6	142.7	1,706.5	0.00	0.00	0.00	
13,200.0	90.48	179.70	11,235.8	-1,803.6	143.2	1,806.4	0.00	0.00	0.00	
13,300.0	90.48	179.70	11,235.0	-1,903.6	143.8	1,906.4	0.00	0.00	0.00	
13,400.0	90.48	179.70	11,234.1	-2,003.6	144.3	2,006.4	0.00	0.00	0.00	
13,500.0	90.48	179.70	11,233.3	-2,103.6	144.8	2,106.4	0.00	0.00	0.00	
13,600.0	90.48	179.70	11,232.4	-2,203.6	145.3	2,206.4	0.00	0.00	0.00	
13,700.0	90.48	179.70	11,231.6	-2,303.6	145.8	2,306.3	0.00	0.00	0.00	
13,800.0	90.48	179.70	11,230.7	-2,403.5	146.3	2,406.3	0.00	0.00	0.00	
13,900.0	90.48	179.70	11,229.9	-2,503.5	146.9	2,506.3	0.00	0.00	0.00	
14,000.0	90.48	179.70	11,229.1	-2,603.5	147.4	2,606.3	0.00	0.00	0.00	
14,100.0	90.48	179.70	11,228.2	-2,703.5	147.9	2,706.3	0.00	0.00	0.00	
14,200.0	90.48	179.70	11,227.4	-2,803.5	148.4	2,806.2	0.00	0.00	0.00	
14,300.0	90.48	179.70	11,226.5	-2,903.5	148.9	2,906.2	0.00	0.00	0.00	
14,400.0	90.48	179.70	11,225.7	-3,003.5	149.5	3,006.2	0.00	0.00	0.00	
14,500.0	90.48	179.70	11,224.8	-3,103.5	150.0	3,106.2	0.00	0.00	0.00	

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3219.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3219.0usft
Site:	Dire Wolf 12 Fed	North Reference:	Grid
Well:	#704H	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)
14,600.0	90.48	179.70	11,224.0	-3,203.5	150.5	3,206.2	0.00	0.00	0.00
14,700.0	90.48	179.70	11,223.1	-3,303.5	151.0	3,306.1	0.00	0.00	0.00
14,800.0	90.48	179.70	11,222.3	-3,403.5	151.5	3,406.1	0.00	0.00	0.00
14,900.0	90.48	179.70	11,221.5	-3,503.5	152.1	3,506.1	0.00	0.00	0.00
15,000.0	90.48	179.70	11,220.6	-3,603.5	152.6	3,606.1	0.00	0.00	0.00
15,100.0	90.48	179.70	11,219.8	-3,703.5	153.1	3,706.1	0.00	0.00	0.00
15,200.0	90.48	179.70	11,218.9	-3,803.5	153.6	3,806.0	0.00	0.00	0.00
15,300.0	90.48	179.70	11,218.1	-3,903.5	154.1	3,906.0	0.00	0.00	0.00
15,400.0	90.48	179.70	11,217.2	-4,003.5	154.7	4,006.0	0.00	0.00	0.00
15,500.0	90.48	179.70	11,216.4	-4,103.5	155.2	4,106.0	0.00	0.00	0.00
15,600.0	90.48	179.70	11,215.5	-4,203.5	155.7	4,206.0	0.00	0.00	0.00
15,700.0	90.48	179.70	11,214.7	-4,303.5	156.2	4,305.9	0.00	0.00	0.00
15,800.0	90.48	179.70	11,213.9	-4,403.4	156.7	4,405.9	0.00	0.00	0.00
15,900.0	90.48	179.70	11,213.0	-4,503.4	157.2	4,505.9	0.00	0.00	0.00
16,000.0	90.48	179.70	11,212.2	-4,603.4	157.8	4,605.9	0.00	0.00	0.00
16,100.0	90.48	179.70	11,211.3	-4,703.4	158.3	4,705.8	0.00	0.00	0.00
16,200.0	90.48	179.70	11,210.5	-4,803.4	158.8	4,805.8	0.00	0.00	0.00
16,300.0	90.48	179.70	11,209.6	-4,903.4	159.3	4,905.8	0.00	0.00	0.00
16,400.0	90.48	179.70	11,208.8	-5,003.4	159.8	5,005.8	0.00	0.00	0.00
16,500.0	90.48	179.70	11,207.9	-5,103.4	160.4	5,105.8	0.00	0.00	0.00
16,600.0	90.48	179.70	11,207.1	-5,203.4	160.9	5,205.7	0.00	0.00	0.00
16,700.0	90.48	179.70	11,206.3	-5,303.4	161.4	5,305.7	0.00	0.00	0.00
16,800.0	90.48	179.70	11,205.4	-5,403.4	161.9	5,405.7	0.00	0.00	0.00
16,900.0	90.48	179.70	11,204.6	-5,503.4	162.4	5,505.7	0.00	0.00	0.00
17,000.0	90.48	179.70	11,203.7	-5,603.4	163.0	5,605.7	0.00	0.00	0.00
17,100.0	90.48	179.70	11,202.9	-5,703.4	163.5	5,705.6	0.00	0.00	0.00
17,200.0	90.48	179.70	11,202.0	-5,803.4	164.0	5,805.6	0.00	0.00	0.00
17,300.0	90.48	179.70	11,201.2	-5,903.4	164.5	5,905.6	0.00	0.00	0.00
17,400.0	90.48	179.70	11,200.3	-6,003.4	165.0	6,005.6	0.00	0.00	0.00
17,500.0	90.48	179.70	11,199.5	-6,103.4	165.6	6,105.6	0.00	0.00	0.00
17,600.0	90.48	179.70	11,198.7	-6,203.4	166.1	6,205.5	0.00	0.00	0.00
17,700.0	90.48	179.70	11,197.8	-6,303.4	166.6	6,305.5	0.00	0.00	0.00
17,800.0	90.48	179.70	11,197.0	-6,403.3	167.1	6,405.5	0.00	0.00	0.00
17,900.0	90.48	179.70	11,196.1	-6,503.3	167.6	6,505.5	0.00	0.00	0.00
18,000.0	90.48	179.70	11,195.3	-6,603.3	168.1	6,605.5	0.00	0.00	0.00
18,100.0	90.48	179.70	11,194.4	-6,703.3	168.7	6,705.4	0.00	0.00	0.00
18,200.0	90.48	179.70	11,193.6	-6,803.3	169.2	6,805.4	0.00	0.00	0.00
18,300.0	90.48	179.70	11,192.7	-6,903.3	169.7	6,905.4	0.00	0.00	0.00
18,400.0	90.48	179.70	11,191.9	-7,003.3	170.2	7,005.4	0.00	0.00	0.00
18,500.0	90.48	179.70	11,191.0	-7,103.3	170.7	7,105.4	0.00	0.00	0.00
18,600.0	90.48	179.70	11,190.2	-7,203.3	171.3	7,205.3	0.00	0.00	0.00
18,700.0	90.48	179.70	11,189.4	-7,303.3	171.8	7,305.3	0.00	0.00	0.00
18,742.7	90.48	179.70	11,189.0	-7,346.0	172.0	7,348.0	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3219.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3219.0usft
Site:	Dire Wolf 12 Fed	North Reference:	Grid
Well:	#704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP (Dire Wolf 12 Fed # - plan hits target center - Point	0.00	0.00	10,711.5	366.0	134.0	384,899.00	696,974.00	32° 3' 25.818 N	103° 49' 51.426 W
FTP (Dire Wolf 12 Fed # - plan hits target center - Point	0.00	0.00	11,189.0	86.0	134.0	384,619.00	696,974.00	32° 3' 23.047 N	103° 49' 51.441 W
PBHL (Dire Wolf 12 Fed - plan hits target center - Point	0.00	0.00	11,189.0	-7,346.0	172.0	377,187.00	697,012.00	32° 2' 9.498 N	103° 49' 51.401 W

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

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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

COMMENTS

Action 18600

COMMENTS

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	18600	Action Type:	C-103A
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Created By	Comment	Comment Date
jagarcia	Accepted for Record	03/09/2021
kpickford	KP GEO Review 2/26/2021	02/26/2021

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

CONDITIONS

Action 18600

CONDITIONS OF APPROVAL

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	18600	Action Type:	C-103A
OCD Reviewer	Condition								
kpickford	Adhere to previous NMOCD Conditions of Approval								