

Submit a Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-46773
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. 317562
7. Lease Name or Unit Agreement Name Frazier 27 State Com
8. Well Number 104H
9. OGRID Number 7377
10. Pool name or Wildcat Triste Draw; Bone Spring, East

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	
2. Name of Operator EOG Resources, Inc.	
3. Address of Operator P.O. Box 2267, Midland, Texas 79702	
4. Well Location Unit Letter <u>C</u> : <u>1159</u> feet from the <u>North</u> line and <u>1783</u> feet from the <u>West</u> line Section <u>27</u> <u>24S</u> Township <u>33E</u> Range <u>NMNM</u> Lea County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3506' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes:

Change SHL to T-24-S, R-33-E, Sec 27, 1159' FNL, 1783' FWL, Lea Co., N.M.
Update casing program.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Star L Harrell TITLE Sr Regulatory Specialist DATE 9/7/2021

Type or print name Star Harrell E-mail address: star_harrell@eogresources.com PHONE: 432-848-9161

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any): _____

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 30-025-46773	² Pool Code 96682	³ Pool Name Triste Draw; Bone Spring, East
⁴ Property Code 317562	⁵ Property Name FRAZIER 27 STATE COM	⁶ Well Number 104H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3506'

¹⁰Surface Location

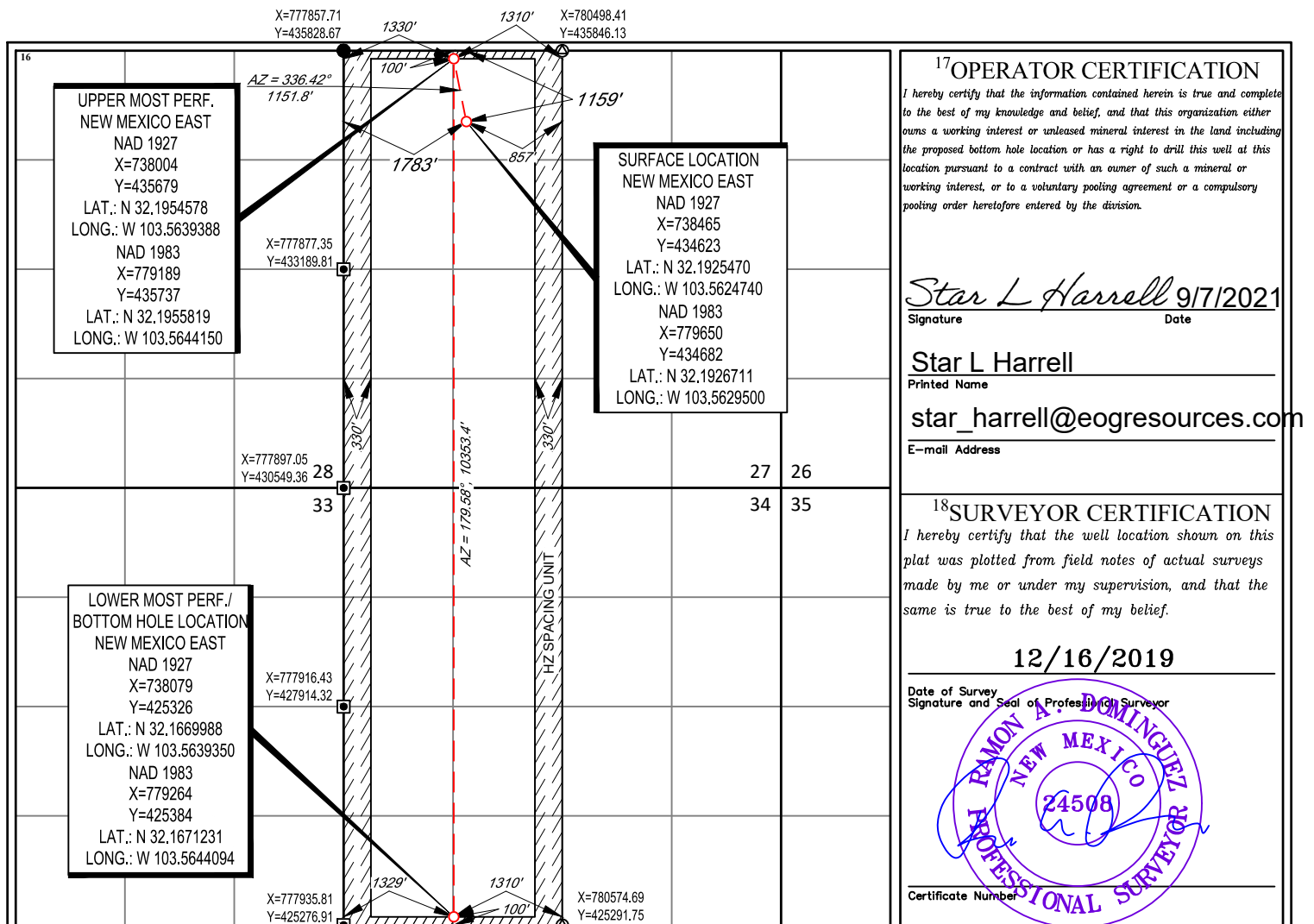
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	27	24-S	33-E	-	1159'	NORTH	1783'	WEST	LEA

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
N	34	24-S	33-E	-	100'	SOUTH	1329'	WEST	LEA

¹² Dedicated Acres 640.00	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.

¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Star L Harrell 9/7/2021
Signature Date

Star L Harrell
Printed Name

star_harrell@eogresources.com
E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

12/16/2019

Date of Survey
Signature and Seal of Professional Surveyor

Ramon A. Dominguez
NEW MEXICO
24508
PROFESSIONAL SURVEYOR
Certificate Number

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description **Effective May 25, 2021**

I. Operator: EOG Resources, Inc. **OGRID:** 7377 **Date:** 09/07/2021

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Frazier 27 State Com 104H		C-27-24S-33E	1159' FNL & 1783' FWL	+/- 1000	+/- 3500	+/- 3000

IV. Central Delivery Point Name: Frazier 27 State Com CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Frazier 27 State Com 104H		10/16/21	10/31/21	12/1/21	1/1/22	2/1/22

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: *Star L Harrell*

Printed Name: Star L Harrell

Title: Sr Regulatory Specialist

E-mail Address: Star_Harrell@eogresources.com

Date: 9/7/2021

Phone: (432) 848-9161

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

Natural Gas Management Plan**Items VI-VIII****VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.**

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid – Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.**Drilling Operations**

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All plunger lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 Mcfd.

Measurement & Estimation

- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses will be installed.

- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- During downhole well maintenance, EOG will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
- All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.



Frazier 27 State Com 104H

1159' FNL

Revised Wellbore

KB: 3531'

1783' FWL

GL: 3506'

Section 27

T-24-S, R-33-E

API: 30-025-46773

Bit Size: 16"
13-3/8", 54.5#, J-55, STC, 0' - 1,300'

Bit Size: 12-1/4"
9-5/8" 40#, J-55, LTC, 0' - 4,000'
9-5/8" 40#, HCK-55, LTC, 4,000' - 5,010'

TOC: 4,510'

Bit Size: 8-3/4"
5-1/2" 17#, HCP-110, LTC@ 0' - 19,670'

KOP: 8,994'

Bit Size: 8-1/2"

Lateral: 19,670' MD, 9,586' TVD
BH Location: 100' FSL & 1329' FWL
Sec. 34
T-24-S R-33-E



Frazier 27 State Com 104H

Permit Information:

Well Name: Frazier 27 State Com 104H

Location: SHL: 1159' FNL & 1783' FWL, Section 27, T-24-S, R-33-E, Lea Co., N.M.

BHL: 100' FSL & 1329' FWL, Section 34, T-24-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	DFmin Tension
16"	0' - 1,300'	13.375"	54.5#	J-55	STC	1.125	1.25	1.6
12.25"	0' - 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.6
12.25"	4,000' - 5,010'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.6
8.75"	0' - 9,744'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.6
8.5"	9,744' - 19,670'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.6

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,300'	390	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,010'	730	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	320	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx
19,670'	460	11.0	3.21	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 4,507')
	2590	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 5,010'	Brine	8.6-8.8	28-34	N/c
5,010' – 19,670' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6



Midland

Lea County, NM (NAD 83 NME)

Frazier 27 State Com

#104H

OH

Plan: Plan #0.2

Standard Planning Report

02 September, 2021



EOG Resources

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #104H
Company:	Midland	TVD Reference:	KB @ 3531.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3531.0usft
Site:	Frazier 27 State Com	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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		Frazier 27 State Com			
Site Position:		Northing:	434,765.00 usft	Latitude:	32° 11' 34.246 N
From:	Map	Easting:	782,361.00 usft	Longitude:	103° 33' 15.061 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	#104H					
Well Position	+N/-S	0.0 usft	Northing:	434,682.00 usft	Latitude:	32° 11' 33.618 N
	+E/-W	0.0 usft	Easting:	779,650.00 usft	Longitude:	103° 33' 46.615 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,506.0 usft
Grid Convergence:		0.41 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/10/2020	6.67	60.00	47,656.51997029

Design	Plan #0.2				
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	182.38	

Plan Survey Tool Program	Date	9/2/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,670.1 Plan #0.2 (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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,139.4	12.79	337.35	2,134.1	65.6	-27.4	2.00	2.00	0.00	337.35	
6,906.4	12.79	337.35	6,782.9	1,039.4	-433.6	0.00	0.00	0.00	0.00	
7,545.8	0.00	0.01	7,417.0	1,105.0	-461.0	2.00	-2.00	0.00	180.00	
8,994.3	0.00	0.01	8,865.5	1,105.0	-461.0	0.00	0.00	0.00	0.00	KOP(Frazier 27 SC #
9,744.3	90.00	179.59	9,343.0	627.5	-457.6	12.00	12.00	23.94	179.59	
19,670.1	90.00	179.59	9,343.0	-9,298.0	-386.0	0.00	0.00	0.00	0.00	PBHL(Frazier 27 SC #



EOG Resources

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #104H
Company:	Midland	TVD Reference:	KB @ 3531.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3531.0usft
Site:	Frazier 27 State Com	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	2.00	337.35	1,600.0	1.6	-0.7	-1.6	2.00	2.00	0.00
1,700.0	4.00	337.35	1,699.8	6.4	-2.7	-6.3	2.00	2.00	0.00
1,800.0	6.00	337.35	1,799.5	14.5	-6.0	-14.2	2.00	2.00	0.00
1,900.0	8.00	337.35	1,898.7	25.7	-10.7	-25.3	2.00	2.00	0.00
2,000.0	10.00	337.35	1,997.5	40.2	-16.8	-39.4	2.00	2.00	0.00
2,100.0	12.00	337.35	2,095.6	57.8	-24.1	-56.7	2.00	2.00	0.00
2,139.4	12.79	337.35	2,134.1	65.6	-27.4	-64.4	2.00	2.00	0.00
2,200.0	12.79	337.35	2,193.2	78.0	-32.5	-76.5	0.00	0.00	0.00
2,300.0	12.79	337.35	2,290.7	98.4	-41.0	-96.6	0.00	0.00	0.00
2,400.0	12.79	337.35	2,388.2	118.8	-49.6	-116.7	0.00	0.00	0.00
2,500.0	12.79	337.35	2,485.8	139.2	-58.1	-136.7	0.00	0.00	0.00
2,600.0	12.79	337.35	2,583.3	159.7	-66.6	-156.8	0.00	0.00	0.00
2,700.0	12.79	337.35	2,680.8	180.1	-75.1	-176.8	0.00	0.00	0.00
2,800.0	12.79	337.35	2,778.3	200.5	-83.7	-196.9	0.00	0.00	0.00
2,900.0	12.79	337.35	2,875.8	221.0	-92.2	-216.9	0.00	0.00	0.00
3,000.0	12.79	337.35	2,973.4	241.4	-100.7	-237.0	0.00	0.00	0.00
3,100.0	12.79	337.35	3,070.9	261.8	-109.2	-257.1	0.00	0.00	0.00
3,200.0	12.79	337.35	3,168.4	282.2	-117.8	-277.1	0.00	0.00	0.00
3,300.0	12.79	337.35	3,265.9	302.7	-126.3	-297.2	0.00	0.00	0.00
3,400.0	12.79	337.35	3,363.4	323.1	-134.8	-317.2	0.00	0.00	0.00
3,500.0	12.79	337.35	3,461.0	343.5	-143.3	-337.3	0.00	0.00	0.00
3,600.0	12.79	337.35	3,558.5	364.0	-151.8	-357.3	0.00	0.00	0.00
3,700.0	12.79	337.35	3,656.0	384.4	-160.4	-377.4	0.00	0.00	0.00
3,800.0	12.79	337.35	3,753.5	404.8	-168.9	-397.5	0.00	0.00	0.00
3,900.0	12.79	337.35	3,851.0	425.2	-177.4	-417.5	0.00	0.00	0.00
4,000.0	12.79	337.35	3,948.6	445.7	-185.9	-437.6	0.00	0.00	0.00
4,100.0	12.79	337.35	4,046.1	466.1	-194.5	-457.6	0.00	0.00	0.00
4,200.0	12.79	337.35	4,143.6	486.5	-203.0	-477.7	0.00	0.00	0.00
4,300.0	12.79	337.35	4,241.1	507.0	-211.5	-497.8	0.00	0.00	0.00
4,400.0	12.79	337.35	4,338.6	527.4	-220.0	-517.8	0.00	0.00	0.00
4,500.0	12.79	337.35	4,436.1	547.8	-228.5	-537.9	0.00	0.00	0.00
4,600.0	12.79	337.35	4,533.7	568.2	-237.1	-557.9	0.00	0.00	0.00
4,700.0	12.79	337.35	4,631.2	588.7	-245.6	-578.0	0.00	0.00	0.00
4,800.0	12.79	337.35	4,728.7	609.1	-254.1	-598.0	0.00	0.00	0.00
4,900.0	12.79	337.35	4,826.2	629.5	-262.6	-618.1	0.00	0.00	0.00
5,000.0	12.79	337.35	4,923.7	650.0	-271.2	-638.2	0.00	0.00	0.00
5,100.0	12.79	337.35	5,021.3	670.4	-279.7	-658.2	0.00	0.00	0.00
5,200.0	12.79	337.35	5,118.8	690.8	-288.2	-678.3	0.00	0.00	0.00



EOG Resources

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #104H
Company:	Midland	TVD Reference:	KB @ 3531.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3531.0usft
Site:	Frazier 27 State Com	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	12.79	337.35	5,216.3	711.2	-296.7	-698.3	0.00	0.00	0.00	
5,400.0	12.79	337.35	5,313.8	731.7	-305.3	-718.4	0.00	0.00	0.00	
5,500.0	12.79	337.35	5,411.3	752.1	-313.8	-738.4	0.00	0.00	0.00	
5,600.0	12.79	337.35	5,508.9	772.5	-322.3	-758.5	0.00	0.00	0.00	
5,700.0	12.79	337.35	5,606.4	793.0	-330.8	-778.6	0.00	0.00	0.00	
5,800.0	12.79	337.35	5,703.9	813.4	-339.3	-798.6	0.00	0.00	0.00	
5,900.0	12.79	337.35	5,801.4	833.8	-347.9	-818.7	0.00	0.00	0.00	
6,000.0	12.79	337.35	5,898.9	854.2	-356.4	-838.7	0.00	0.00	0.00	
6,100.0	12.79	337.35	5,996.5	874.7	-364.9	-858.8	0.00	0.00	0.00	
6,200.0	12.79	337.35	6,094.0	895.1	-373.4	-878.8	0.00	0.00	0.00	
6,300.0	12.79	337.35	6,191.5	915.5	-382.0	-898.9	0.00	0.00	0.00	
6,400.0	12.79	337.35	6,289.0	936.0	-390.5	-919.0	0.00	0.00	0.00	
6,500.0	12.79	337.35	6,386.5	956.4	-399.0	-939.0	0.00	0.00	0.00	
6,600.0	12.79	337.35	6,484.1	976.8	-407.5	-959.1	0.00	0.00	0.00	
6,700.0	12.79	337.35	6,581.6	997.2	-416.0	-979.1	0.00	0.00	0.00	
6,800.0	12.79	337.35	6,679.1	1,017.7	-424.6	-999.2	0.00	0.00	0.00	
6,906.4	12.79	337.35	6,782.9	1,039.4	-433.6	-1,020.5	0.00	0.00	0.00	
7,000.0	10.92	337.35	6,874.5	1,057.2	-441.0	-1,037.9	2.00	-2.00	0.00	
7,100.0	8.92	337.35	6,973.0	1,073.0	-447.7	-1,053.6	2.00	-2.00	0.00	
7,200.0	6.92	337.35	7,072.0	1,085.8	-453.0	-1,066.0	2.00	-2.00	0.00	
7,300.0	4.92	337.35	7,171.5	1,095.3	-456.9	-1,075.4	2.00	-2.00	0.00	
7,400.0	2.92	337.35	7,271.2	1,101.6	-459.6	-1,081.6	2.00	-2.00	0.00	
7,500.0	0.92	337.35	7,371.2	1,104.7	-460.9	-1,084.6	2.00	-2.00	0.00	
7,545.8	0.00	0.01	7,417.0	1,105.0	-461.0	-1,084.9	2.00	-2.00	0.00	
7,600.0	0.00	0.00	7,471.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,571.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,671.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,771.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,871.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,971.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,071.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,171.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,271.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,371.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,471.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,571.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,671.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,771.2	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
8,994.3	0.00	0.01	8,865.5	1,105.0	-461.0	-1,084.9	0.00	0.00	0.00	
9,000.0	0.68	179.59	8,871.2	1,105.0	-461.0	-1,084.9	12.00	12.00	0.00	
9,025.0	3.68	179.59	8,896.1	1,104.0	-461.0	-1,083.9	12.00	12.00	0.00	
9,050.0	6.68	179.59	8,921.0	1,101.8	-461.0	-1,081.7	12.00	12.00	0.00	
9,075.0	9.68	179.59	8,945.8	1,098.2	-461.0	-1,078.1	12.00	12.00	0.00	
9,100.0	12.68	179.59	8,970.3	1,093.4	-460.9	-1,073.3	12.00	12.00	0.00	
9,125.0	15.68	179.59	8,994.5	1,087.2	-460.9	-1,067.2	12.00	12.00	0.00	
9,150.0	18.68	179.59	9,018.4	1,079.9	-460.8	-1,059.8	12.00	12.00	0.00	
9,175.0	21.68	179.59	9,041.9	1,071.2	-460.8	-1,051.2	12.00	12.00	0.00	
9,200.0	24.68	179.59	9,064.9	1,061.4	-460.7	-1,041.4	12.00	12.00	0.00	
9,225.0	27.68	179.59	9,087.3	1,050.4	-460.6	-1,030.4	12.00	12.00	0.00	
9,250.0	30.68	179.59	9,109.1	1,038.2	-460.5	-1,018.2	12.00	12.00	0.00	
9,275.0	33.68	179.59	9,130.3	1,024.9	-460.4	-1,004.9	12.00	12.00	0.00	
9,300.0	36.68	179.59	9,150.7	1,010.5	-460.3	-990.5	12.00	12.00	0.00	
9,325.0	39.68	179.59	9,170.4	995.0	-460.2	-975.1	12.00	12.00	0.00	
9,350.0	42.68	179.59	9,189.2	978.6	-460.1	-958.6	12.00	12.00	0.00	

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #104H
Company:	Midland	TVD Reference:	KB @ 3531.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3531.0usft
Site:	Frazier 27 State Com	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)	
9,375.0	45.68	179.59	9,207.1	961.1	-460.0	-941.2	12.00	12.00	0.00	
9,400.0	48.68	179.59	9,224.1	942.8	-459.8	-922.9	12.00	12.00	0.00	
9,425.0	51.68	179.59	9,240.1	923.6	-459.7	-903.7	12.00	12.00	0.00	
9,450.0	54.68	179.59	9,255.1	903.6	-459.5	-883.8	12.00	12.00	0.00	
9,475.0	57.68	179.59	9,269.0	882.8	-459.4	-863.0	12.00	12.00	0.00	
9,500.0	60.68	179.59	9,281.8	861.4	-459.2	-841.6	12.00	12.00	0.00	
9,525.0	63.68	179.59	9,293.5	839.2	-459.1	-819.5	12.00	12.00	0.00	
9,550.0	66.68	179.59	9,304.0	816.6	-458.9	-796.8	12.00	12.00	0.00	
9,575.0	69.68	179.59	9,313.2	793.4	-458.8	-773.6	12.00	12.00	0.00	
9,600.0	72.68	179.59	9,321.3	769.7	-458.6	-750.0	12.00	12.00	0.00	
9,625.0	75.68	179.59	9,328.1	745.6	-458.4	-726.0	12.00	12.00	0.00	
9,650.0	78.68	179.59	9,333.7	721.3	-458.2	-701.6	12.00	12.00	0.00	
9,675.0	81.68	179.59	9,337.9	696.6	-458.1	-677.0	12.00	12.00	0.00	
9,700.0	84.68	179.59	9,340.9	671.8	-457.9	-652.3	12.00	12.00	0.00	
9,725.0	87.68	179.59	9,342.6	646.9	-457.7	-627.3	12.00	12.00	0.00	
9,744.3	90.00	179.59	9,343.0	627.5	-457.6	-608.0	12.00	12.00	0.00	
9,800.0	90.00	179.59	9,343.0	571.9	-457.2	-552.4	0.00	0.00	0.00	
9,900.0	90.00	179.59	9,343.0	471.9	-456.4	-452.6	0.00	0.00	0.00	
10,000.0	90.00	179.59	9,343.0	371.9	-455.7	-352.7	0.00	0.00	0.00	
10,100.0	90.00	179.59	9,343.0	271.9	-455.0	-252.8	0.00	0.00	0.00	
10,200.0	90.00	179.59	9,343.0	171.9	-454.3	-152.9	0.00	0.00	0.00	
10,300.0	90.00	179.59	9,343.0	71.9	-453.6	-53.0	0.00	0.00	0.00	
10,400.0	90.00	179.59	9,343.0	-28.1	-452.8	46.9	0.00	0.00	0.00	
10,500.0	90.00	179.59	9,343.0	-128.1	-452.1	146.7	0.00	0.00	0.00	
10,600.0	90.00	179.59	9,343.0	-228.1	-451.4	246.6	0.00	0.00	0.00	
10,700.0	90.00	179.59	9,343.0	-328.1	-450.7	346.5	0.00	0.00	0.00	
10,800.0	90.00	179.59	9,343.0	-428.1	-449.9	446.4	0.00	0.00	0.00	
10,900.0	90.00	179.59	9,343.0	-528.1	-449.2	546.3	0.00	0.00	0.00	
11,000.0	90.00	179.59	9,343.0	-628.1	-448.5	646.1	0.00	0.00	0.00	
11,100.0	90.00	179.59	9,343.0	-728.1	-447.8	746.0	0.00	0.00	0.00	
11,200.0	90.00	179.59	9,343.0	-828.1	-447.1	845.9	0.00	0.00	0.00	
11,300.0	90.00	179.59	9,343.0	-928.1	-446.3	945.8	0.00	0.00	0.00	
11,400.0	90.00	179.59	9,343.0	-1,028.1	-445.6	1,045.7	0.00	0.00	0.00	
11,500.0	90.00	179.59	9,343.0	-1,128.1	-444.9	1,145.5	0.00	0.00	0.00	
11,600.0	90.00	179.59	9,343.0	-1,228.1	-444.2	1,245.4	0.00	0.00	0.00	
11,700.0	90.00	179.59	9,343.0	-1,328.1	-443.5	1,345.3	0.00	0.00	0.00	
11,800.0	90.00	179.59	9,343.0	-1,428.1	-442.7	1,445.2	0.00	0.00	0.00	
11,900.0	90.00	179.59	9,343.0	-1,528.1	-442.0	1,545.1	0.00	0.00	0.00	
12,000.0	90.00	179.59	9,343.0	-1,628.1	-441.3	1,645.0	0.00	0.00	0.00	
12,100.0	90.00	179.59	9,343.0	-1,728.0	-440.6	1,744.8	0.00	0.00	0.00	
12,200.0	90.00	179.59	9,343.0	-1,828.0	-439.9	1,844.7	0.00	0.00	0.00	
12,300.0	90.00	179.59	9,343.0	-1,928.0	-439.1	1,944.6	0.00	0.00	0.00	
12,400.0	90.00	179.59	9,343.0	-2,028.0	-438.4	2,044.5	0.00	0.00	0.00	
12,500.0	90.00	179.59	9,343.0	-2,128.0	-437.7	2,144.4	0.00	0.00	0.00	
12,600.0	90.00	179.59	9,343.0	-2,228.0	-437.0	2,244.2	0.00	0.00	0.00	
12,700.0	90.00	179.59	9,343.0	-2,328.0	-436.2	2,344.1	0.00	0.00	0.00	
12,800.0	90.00	179.59	9,343.0	-2,428.0	-435.5	2,444.0	0.00	0.00	0.00	
12,900.0	90.00	179.59	9,343.0	-2,528.0	-434.8	2,543.9	0.00	0.00	0.00	
13,000.0	90.00	179.59	9,343.0	-2,628.0	-434.1	2,643.8	0.00	0.00	0.00	
13,100.0	90.00	179.59	9,343.0	-2,728.0	-433.4	2,743.7	0.00	0.00	0.00	
13,200.0	90.00	179.59	9,343.0	-2,828.0	-432.6	2,843.5	0.00	0.00	0.00	
13,300.0	90.00	179.59	9,343.0	-2,928.0	-431.9	2,943.4	0.00	0.00	0.00	
13,400.0	90.00	179.59	9,343.0	-3,028.0	-431.2	3,043.3	0.00	0.00	0.00	
13,500.0	90.00	179.59	9,343.0	-3,128.0	-430.5	3,143.2	0.00	0.00	0.00	

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #104H
Company:	Midland	TVD Reference:	KB @ 3531.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3531.0usft
Site:	Frazier 27 State Com	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
13,600.0	90.00	179.59	9,343.0	-3,228.0	-429.8	3,243.1	0.00	0.00	0.00
13,700.0	90.00	179.59	9,343.0	-3,328.0	-429.0	3,342.9	0.00	0.00	0.00
13,800.0	90.00	179.59	9,343.0	-3,428.0	-428.3	3,442.8	0.00	0.00	0.00
13,900.0	90.00	179.59	9,343.0	-3,528.0	-427.6	3,542.7	0.00	0.00	0.00
14,000.0	90.00	179.59	9,343.0	-3,628.0	-426.9	3,642.6	0.00	0.00	0.00
14,100.0	90.00	179.59	9,343.0	-3,728.0	-426.2	3,742.5	0.00	0.00	0.00
14,200.0	90.00	179.59	9,343.0	-3,828.0	-425.4	3,842.3	0.00	0.00	0.00
14,300.0	90.00	179.59	9,343.0	-3,928.0	-424.7	3,942.2	0.00	0.00	0.00
14,400.0	90.00	179.59	9,343.0	-4,028.0	-424.0	4,042.1	0.00	0.00	0.00
14,500.0	90.00	179.59	9,343.0	-4,128.0	-423.3	4,142.0	0.00	0.00	0.00
14,600.0	90.00	179.59	9,343.0	-4,228.0	-422.6	4,241.9	0.00	0.00	0.00
14,700.0	90.00	179.59	9,343.0	-4,328.0	-421.8	4,341.8	0.00	0.00	0.00
14,800.0	90.00	179.59	9,343.0	-4,428.0	-421.1	4,441.6	0.00	0.00	0.00
14,900.0	90.00	179.59	9,343.0	-4,528.0	-420.4	4,541.5	0.00	0.00	0.00
15,000.0	90.00	179.59	9,343.0	-4,628.0	-419.7	4,641.4	0.00	0.00	0.00
15,100.0	90.00	179.59	9,343.0	-4,728.0	-418.9	4,741.3	0.00	0.00	0.00
15,200.0	90.00	179.59	9,343.0	-4,828.0	-418.2	4,841.2	0.00	0.00	0.00
15,300.0	90.00	179.59	9,343.0	-4,928.0	-417.5	4,941.0	0.00	0.00	0.00
15,400.0	90.00	179.59	9,343.0	-5,028.0	-416.8	5,040.9	0.00	0.00	0.00
15,500.0	90.00	179.59	9,343.0	-5,128.0	-416.1	5,140.8	0.00	0.00	0.00
15,600.0	90.00	179.59	9,343.0	-5,228.0	-415.3	5,240.7	0.00	0.00	0.00
15,700.0	90.00	179.59	9,343.0	-5,328.0	-414.6	5,340.6	0.00	0.00	0.00
15,800.0	90.00	179.59	9,343.0	-5,428.0	-413.9	5,440.5	0.00	0.00	0.00
15,900.0	90.00	179.59	9,343.0	-5,528.0	-413.2	5,540.3	0.00	0.00	0.00
16,000.0	90.00	179.59	9,343.0	-5,627.9	-412.5	5,640.2	0.00	0.00	0.00
16,100.0	90.00	179.59	9,343.0	-5,727.9	-411.7	5,740.1	0.00	0.00	0.00
16,200.0	90.00	179.59	9,343.0	-5,827.9	-411.0	5,840.0	0.00	0.00	0.00
16,300.0	90.00	179.59	9,343.0	-5,927.9	-410.3	5,939.9	0.00	0.00	0.00
16,400.0	90.00	179.59	9,343.0	-6,027.9	-409.6	6,039.7	0.00	0.00	0.00
16,500.0	90.00	179.59	9,343.0	-6,127.9	-408.9	6,139.6	0.00	0.00	0.00
16,600.0	90.00	179.59	9,343.0	-6,227.9	-408.1	6,239.5	0.00	0.00	0.00
16,700.0	90.00	179.59	9,343.0	-6,327.9	-407.4	6,339.4	0.00	0.00	0.00
16,800.0	90.00	179.59	9,343.0	-6,427.9	-406.7	6,439.3	0.00	0.00	0.00
16,900.0	90.00	179.59	9,343.0	-6,527.9	-406.0	6,539.1	0.00	0.00	0.00
17,000.0	90.00	179.59	9,343.0	-6,627.9	-405.2	6,639.0	0.00	0.00	0.00
17,100.0	90.00	179.59	9,343.0	-6,727.9	-404.5	6,738.9	0.00	0.00	0.00
17,200.0	90.00	179.59	9,343.0	-6,827.9	-403.8	6,838.8	0.00	0.00	0.00
17,300.0	90.00	179.59	9,343.0	-6,927.9	-403.1	6,938.7	0.00	0.00	0.00
17,400.0	90.00	179.59	9,343.0	-7,027.9	-402.4	7,038.6	0.00	0.00	0.00
17,500.0	90.00	179.59	9,343.0	-7,127.9	-401.6	7,138.4	0.00	0.00	0.00
17,600.0	90.00	179.59	9,343.0	-7,227.9	-400.9	7,238.3	0.00	0.00	0.00
17,700.0	90.00	179.59	9,343.0	-7,327.9	-400.2	7,338.2	0.00	0.00	0.00
17,800.0	90.00	179.59	9,343.0	-7,427.9	-399.5	7,438.1	0.00	0.00	0.00
17,900.0	90.00	179.59	9,343.0	-7,527.9	-398.8	7,538.0	0.00	0.00	0.00
18,000.0	90.00	179.59	9,343.0	-7,627.9	-398.0	7,637.8	0.00	0.00	0.00
18,100.0	90.00	179.59	9,343.0	-7,727.9	-397.3	7,737.7	0.00	0.00	0.00
18,200.0	90.00	179.59	9,343.0	-7,827.9	-396.6	7,837.6	0.00	0.00	0.00
18,300.0	90.00	179.59	9,343.0	-7,927.9	-395.9	7,937.5	0.00	0.00	0.00
18,400.0	90.00	179.59	9,343.0	-8,027.9	-395.2	8,037.4	0.00	0.00	0.00
18,500.0	90.00	179.59	9,343.0	-8,127.9	-394.4	8,137.2	0.00	0.00	0.00
18,600.0	90.00	179.59	9,343.0	-8,227.9	-393.7	8,237.1	0.00	0.00	0.00
18,700.0	90.00	179.59	9,343.0	-8,327.9	-393.0	8,337.0	0.00	0.00	0.00
18,800.0	90.00	179.59	9,343.0	-8,427.9	-392.3	8,436.9	0.00	0.00	0.00
18,900.0	90.00	179.59	9,343.0	-8,527.9	-391.6	8,536.8	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #104H
Company:	Midland	TVD Reference:	KB @ 3531.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3531.0usft
Site:	Frazier 27 State Com	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

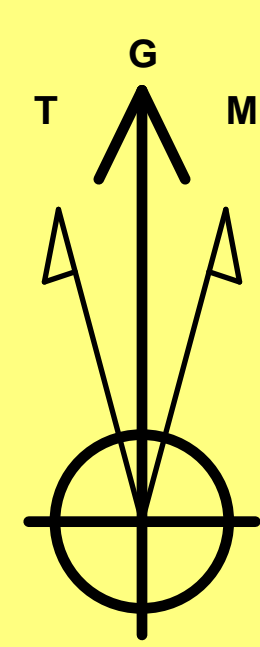
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,000.0	90.00	179.59	9,343.0	-8,627.9	-390.8	8,636.7	0.00	0.00	0.00	
19,100.0	90.00	179.59	9,343.0	-8,727.9	-390.1	8,736.5	0.00	0.00	0.00	
19,200.0	90.00	179.59	9,343.0	-8,827.9	-389.4	8,836.4	0.00	0.00	0.00	
19,300.0	90.00	179.59	9,343.0	-8,927.9	-388.7	8,936.3	0.00	0.00	0.00	
19,400.0	90.00	179.59	9,343.0	-9,027.9	-387.9	9,036.2	0.00	0.00	0.00	
19,500.0	90.00	179.59	9,343.0	-9,127.9	-387.2	9,136.1	0.00	0.00	0.00	
19,600.0	90.00	179.59	9,343.0	-9,227.9	-386.5	9,235.9	0.00	0.00	0.00	
19,670.1	90.00	179.59	9,343.0	-9,298.0	-386.0	9,306.0	0.00	0.00	0.00	

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	
KOP(Frazier 27 SC #104 - plan hits target center - Point	0.00	0.00	8,865.5	1,105.0	-461.0	435,787.00	779,189.00	32° 11' 44.585 N	103° 33' 51.887 W	
PBHL(Frazier 27 SC #104 - plan hits target center - Point	0.00	0.01	9,343.0	-9,298.0	-386.0	425,384.00	779,264.00	32° 10' 1.639 N	103° 33' 51.880 W	

Lea County, NM (NAD 83 NME)

Frazier 27 State Com #104H

Plan #0.2



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.26°

Magnetic Field
Strength: 47656.5nT
Dip Angle: 60.00°
Date: 1/10/2020
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.26°
To convert a Magnetic Direction to a True Direction, Add 6.67° 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: #104H

KB @ 3531.0usft 3506.0
Northing 434682.00 Easting 779650.00 Latitude 32° 11' 33.618 N Longitude 103° 33' 46.615 W

SECTION DETAILS

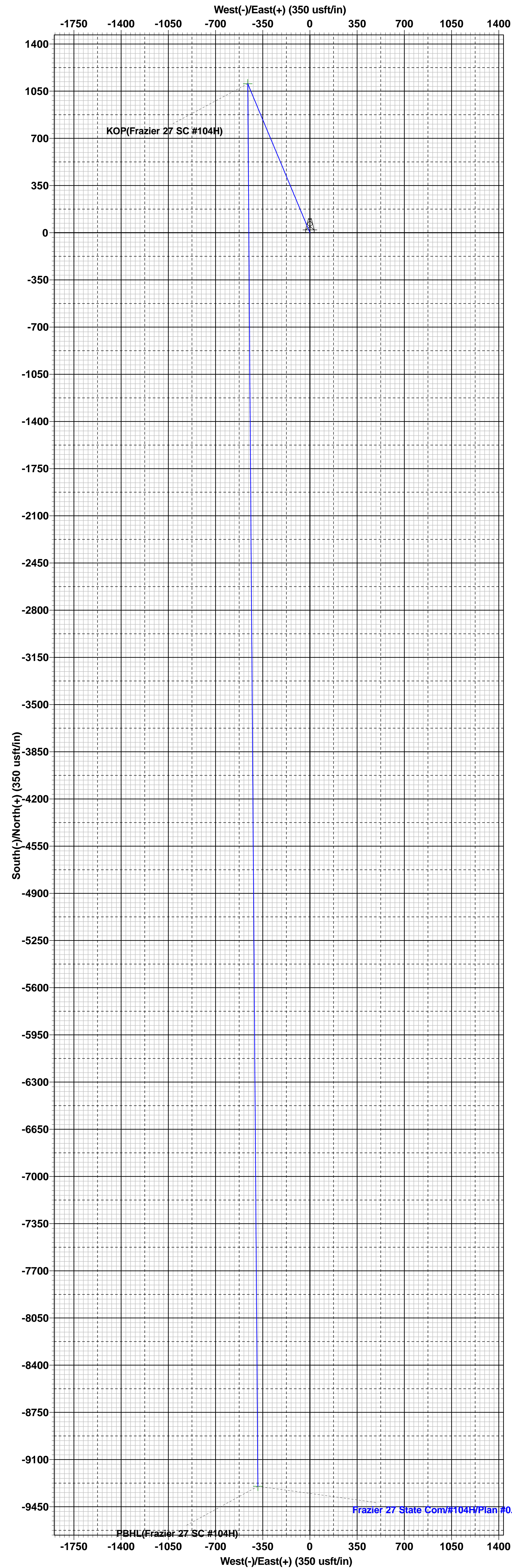
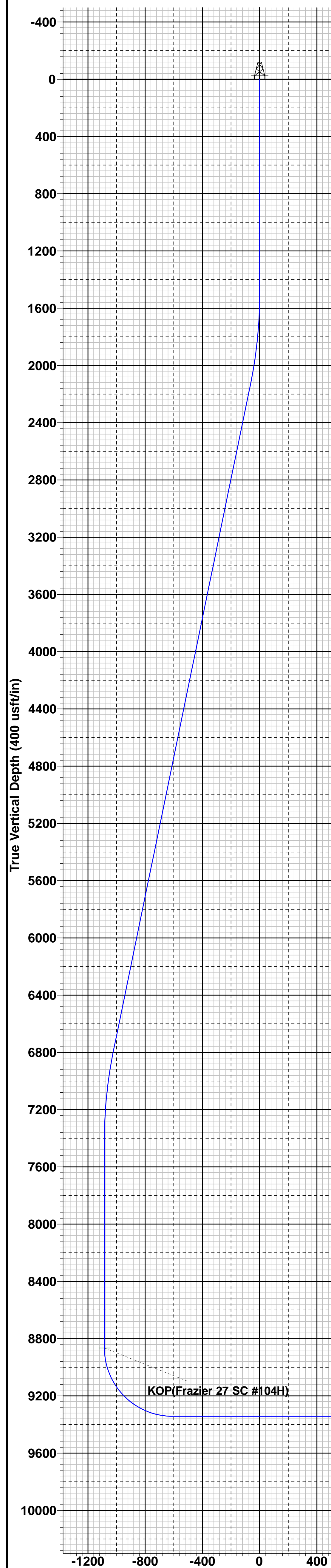
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	2139.4	12.79	337.35	2134.1	65.6	-27.4	2.00	337.35	-64.4	
4	6906.4	12.79	337.35	6782.9	1039.4	-433.6	0.00	0.00	-1020.5	
5	7545.8	0.00	0.00	7417.0	1105.0	-461.0	2.00	180.00	-1084.9	
6	8994.3	0.00	0.00	8865.5	1105.0	-461.0	0.00	0.00	-1084.9	KOP(Frazier 27 SC #104H)
7	9744.3	90.00	179.59	9343.0	627.5	-457.6	12.00	179.59	-608.0	
8	19670.1	90.00	179.59	9343.0	-9298.0	-386.0	0.00	0.00	9306.0	PBHL(Frazier 27 SC #104H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Frazier 27 SC #104H)	8865.5	1105.0	-461.0	435787.00	779189.00
PBHL(Frazier 27 SC #104H)	9343.0	-9298.0	-386.0	425384.00	779264.00



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 46513

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 46513
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/9/2021