

Well Name: DIAMOND 31 FED COM	Well Location: T24S / R34E / SEC 31 / LOT 4 / 32.168331 / -103.515785	County or Parish/State: LEA / NM
Well Number: 502H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM28881	Unit or CA Name:	Unit or CA Number: NMNM105775292
US Well Number: 3002549235	Operator: EOG RESOURCES INCORPORATED	

Notice of Intent

Sundry ID: 2873245

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 10/10/2025	Time Sundry Submitted: 08:46
Date proposed operation will begin: 10/10/2025	

Procedure Description: EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Change BHL from T-24-S, R-33-E, Sec 30, 2540' FSL & 990' FWL, Lea Co., NM to T-24-S, R-33-E, Sec 30, 2529' FSL & 1122 FWL , Lea Co., NM. Update casing and cement program to current design. Updated C102 attached.

NOI Attachments

Procedure Description

- Diamond_31_Fed_Com_502H_Sundry_Info___Rev_BHL_20251010084606.pdf
- Diamond_31_Fed_Com__502H_Wall_Plot_20251010084606.pdf
- Diamond_31_Fed_Com__502H_Planning_Report_20251010084606.pdf
- C_102_DIAMOND_31_FED_COM_502H_20251010084422.pdf

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US Well Number: 3002549235	Operator: EOG RESOURCES INCORPORATED	

Operator

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

Operator Electronic Signature: KAYLA MCCONNELL

Signed on: OCT 10, 2025 08:46 AM

Name: EOG RESOURCES INCORPORATED

Title: Regulatory Specialist

Street Address: 5509 CHAMPIONS DR

City: MIDLANDState: TX

Phone: (432) 265-6804

Email address: KAYLA_MCCONNELL@EOGRESOURCES.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

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: 10/30/2025

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address 3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: LOT 4 / 558 FSL / 532 FWL / TWSP: 24S / RANGE: 34E / SECTION: 31 / LAT: 32.168331 / LONG: -103.515785 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 4 / 100 FSL / 990 FWL / TWSP: 24S / RANGE: 34E / SECTION: 31 / LAT: 32.167071 / LONG: -103.514306 (TVD: 10599 feet, MD: 10633 feet)

BHL: LOT 3 / 2540 FSL / 990 FWL / TWSP: 24S / RANGE: 34E / SECTION: 30 / LAT: 32.18828 / LONG: -103.514306 (TVD: 10864 feet, MD: 18451 feet)

CONFIDENTIAL

**EOG RESOURCES, INC.
DIAMOND 31 FED COM #502H**

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,143'
Tamarisk Anhydrite	1,219'
Top of Salt	1,638'
Base of Salt	4,939'
Lamar	5,188'
Bell Canyon	5,212'
Cherry Canyon	6,238'
Brushy Canyon	7,740'
Bone Spring Lime	9,234'
Leonard A Shale	9,294'
Leonard B Shale	9,592'
1 st Bone Spring Sand	10,196'
2 nd Bone Spring Shale	10,458'
2 nd Bone Spring Sand	10,862'
TD	10,864'

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

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,238'	Oil
Brushy Canyon	7,740'	Oil
Leonard A	9,294'	Oil
Leonard B	9,592'	Oil
1 st Bone Spring Sand	10,196'	Oil
2 nd Bone Spring Shale	10,458'	Oil
2 nd Bone Spring Sand	10,862'	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 13.375" casing at 1,250' and circulating cement back to surface.

**EOG RESOURCES, INC.
DIAMOND 31 FED COM #502H**

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0' – 1,250'	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' – 5,040'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0' – 11,162'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	11,162' – 18,451'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" hole interval to maximize cement bond and zonal isolation.

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

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,250'	770	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	180	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,050')
5,040'	900	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	330	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 4,030')
18,451'	640	11.0	3.21	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 4,540')
	2,150	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,390')

**EOG RESOURCES, INC.
DIAMOND 31 FED COM #502H**

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	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

Cement integrity tests will be performed immediately following plug bump.

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. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

EOG will utilize wing unions on BOPE connections that can be isolated from wellbore pressure through means of a choke. All wing unions will be rated to a pressure that meets or exceeds the pressure rating of the BOPE system.

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

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10,000/ 250 psig and the annular preventer to 5,000/ 250 psig.

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.

**EOG RESOURCES, INC.
DIAMOND 31 FED COM #502H**

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 – 1,250'	Fresh - Gel	8.6-8.8	28-34	N/c
1,250' – 5,040'	Brine	8.6-8.8	28-34	N/c
5,040' – 18,451'	Oil Base	8.8-9.5	58-68	N/c - 6

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.

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 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5,367 psig and a maximum anticipated surface pressure of 2,977 psig (based on 9.5 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. Severe loss circulation is expected from 7,740' to TD.

**EOG RESOURCES, INC.
DIAMOND 31 FED COM #502H**

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 13-3/8" surface casing, a 13-3/8" 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 Cameron 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.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. EOG Resources reserves the option to conduct BOPE testing during wait on cement periods provided a test plug is utilized.

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.

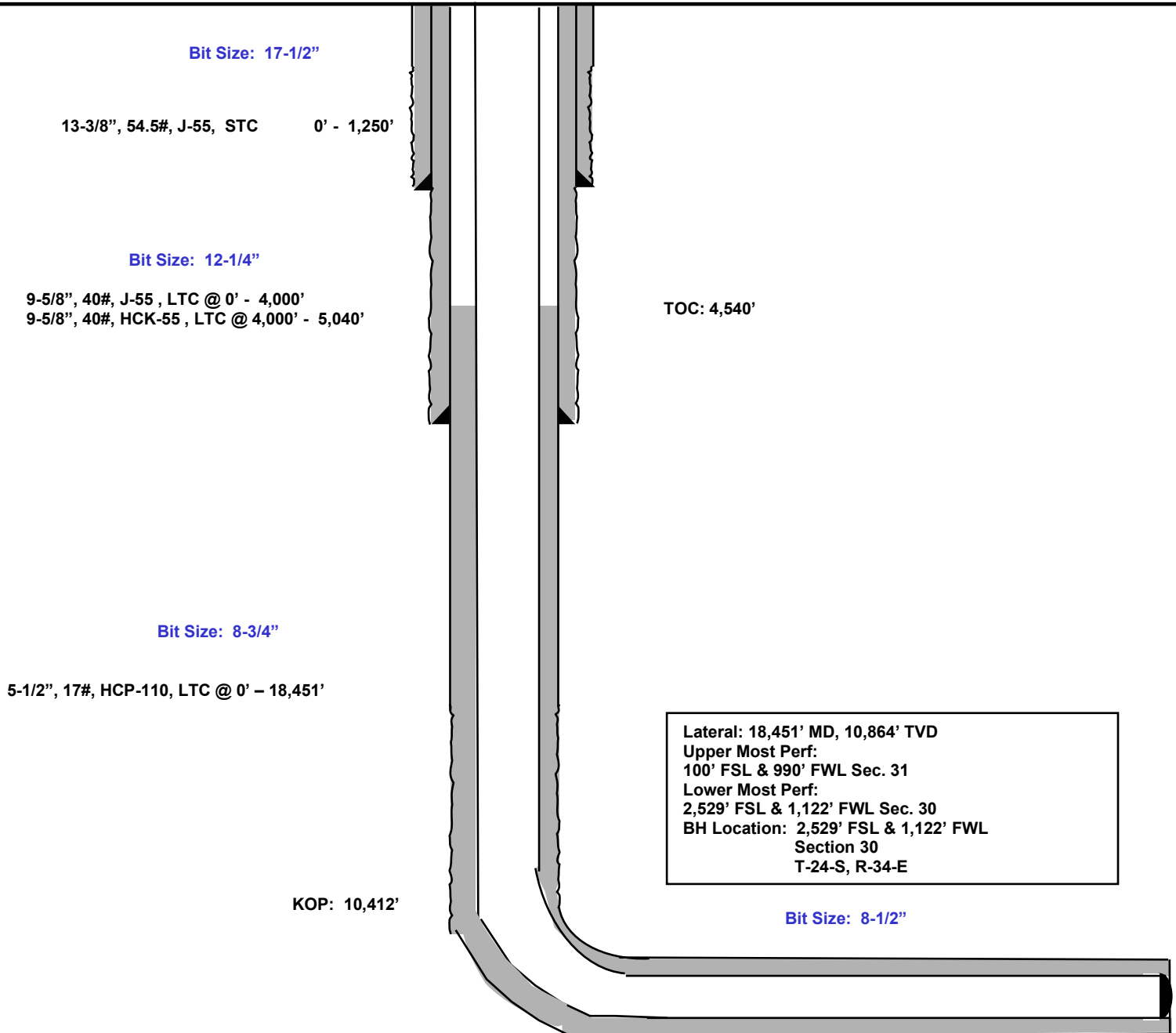
EOG RESOURCES, INC.
DIAMOND 31 FED COM #502H

558' FSL
532' FWL
Section 31
T-24-S, R-34-E

Proposed Wellbore

KB: 3,493'
GL: 3,468'

API: 30-025-49235







Midland

Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com

#502H

141936

OH

Plan: Plan #1

Standard Planning Report

08 March, 2022



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #502H
Company:	Midland	TVD Reference:	kb = 26' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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		Diamond 31 Fed Com			
Site Position:		Northing:	425,996.00 usft	Latitude:	32° 10' 6.586 N
From:	Map	Easting:	794,470.00 usft	Longitude:	103° 30' 54.929 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	#502H					
Well Position	+N/-S	0.0 usft	Northing:	425,935.00 usft	Latitude:	32° 10' 5.994 N
	+E/-W	0.0 usft	Easting:	794,307.00 usft	Longitude:	103° 30' 56.830 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,467.0 usft
Grid Convergence:		0.44 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/26/2022	6.42	59.83	47,385.31730971

Design	Plan #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	4.05	

Plan Survey Tool Program	Date	3/8/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	18,504.3 Plan #1 (OH)	EOG MWD+IFR1		
			MWD + IFR1		



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #502H
Company:	Midland	TVD Reference:	kb = 26' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,761.7	7.23	131.44	1,760.8	-15.1	17.1	2.00	2.00	0.00	131.44	
7,458.5	7.23	131.44	7,412.2	-489.9	554.9	0.00	0.00	0.00	0.00	
7,820.3	0.00	0.00	7,773.0	-505.0	572.0	2.00	-2.00	0.00	180.00	Brushy Top(Diamond
10,419.8	0.00	0.00	10,372.5	-505.0	572.0	0.00	0.00	0.00	0.00	
11,329.1	90.94	359.57	10,945.4	77.3	567.6	10.00	10.00	-0.05	359.57	
16,148.2	90.94	359.57	10,866.7	4,895.6	531.1	0.00	0.00	0.00	0.00	TGT#1(DIAMOND 31
16,165.6	91.28	359.56	10,866.4	4,913.0	531.0	2.00	2.00	-0.04	-1.05	
18,504.3	91.28	359.56	10,814.0	7,251.0	513.0	0.00	0.00	0.00	0.00	PBHL(Diamond 31 Fe



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #502H
Company:	Midland	TVD Reference:	kb = 26' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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
1,185.0	0.00	0.00	1,185.0	0.0	0.0	0.0	0.00	0.00	0.00
RSLR									
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,263.0	0.00	0.00	1,263.0	0.0	0.0	0.0	0.00	0.00	0.00
TMSK_ANHY									
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	2.00	131.44	1,500.0	-1.2	1.3	-1.1	2.00	2.00	0.00
1,600.0	4.00	131.44	1,599.8	-4.6	5.2	-4.2	2.00	2.00	0.00
1,700.0	6.00	131.44	1,699.5	-10.4	11.8	-9.5	2.00	2.00	0.00
1,708.6	6.17	131.44	1,708.0	-11.0	12.4	-10.1	2.00	2.00	0.00
TOP_SALT									
1,761.7	7.23	131.44	1,760.8	-15.1	17.1	-13.9	2.00	2.00	0.00
1,800.0	7.23	131.44	1,798.7	-18.3	20.7	-16.8	0.00	0.00	0.00
1,900.0	7.23	131.44	1,897.9	-26.6	30.2	-24.4	0.00	0.00	0.00
2,000.0	7.23	131.44	1,997.1	-35.0	39.6	-32.1	0.00	0.00	0.00
2,100.0	7.23	131.44	2,096.3	-43.3	49.0	-39.7	0.00	0.00	0.00
2,200.0	7.23	131.44	2,195.6	-51.6	58.5	-47.4	0.00	0.00	0.00
2,300.0	7.23	131.44	2,294.8	-60.0	67.9	-55.0	0.00	0.00	0.00
2,400.0	7.23	131.44	2,394.0	-68.3	77.4	-62.7	0.00	0.00	0.00
2,500.0	7.23	131.44	2,493.2	-76.6	86.8	-70.3	0.00	0.00	0.00
2,600.0	7.23	131.44	2,592.4	-85.0	96.2	-78.0	0.00	0.00	0.00
2,700.0	7.23	131.44	2,691.6	-93.3	105.7	-85.6	0.00	0.00	0.00
2,800.0	7.23	131.44	2,790.8	-101.6	115.1	-93.3	0.00	0.00	0.00
2,900.0	7.23	131.44	2,890.0	-110.0	124.6	-100.9	0.00	0.00	0.00
3,000.0	7.23	131.44	2,989.2	-118.3	134.0	-108.5	0.00	0.00	0.00
3,100.0	7.23	131.44	3,088.4	-126.6	143.4	-116.2	0.00	0.00	0.00
3,200.0	7.23	131.44	3,187.6	-135.0	152.9	-123.8	0.00	0.00	0.00
3,300.0	7.23	131.44	3,286.8	-143.3	162.3	-131.5	0.00	0.00	0.00
3,400.0	7.23	131.44	3,386.0	-151.6	171.8	-139.1	0.00	0.00	0.00
3,500.0	7.23	131.44	3,485.2	-160.0	181.2	-146.8	0.00	0.00	0.00
3,600.0	7.23	131.44	3,584.4	-168.3	190.6	-154.4	0.00	0.00	0.00
3,700.0	7.23	131.44	3,683.6	-176.6	200.1	-162.1	0.00	0.00	0.00
3,800.0	7.23	131.44	3,782.8	-185.0	209.5	-169.7	0.00	0.00	0.00
3,900.0	7.23	131.44	3,882.0	-193.3	219.0	-177.4	0.00	0.00	0.00
4,000.0	7.23	131.44	3,981.2	-201.6	228.4	-185.0	0.00	0.00	0.00
4,100.0	7.23	131.44	4,080.4	-210.0	237.8	-192.7	0.00	0.00	0.00
4,200.0	7.23	131.44	4,179.6	-218.3	247.3	-200.3	0.00	0.00	0.00
4,300.0	7.23	131.44	4,278.8	-226.7	256.7	-208.0	0.00	0.00	0.00
4,400.0	7.23	131.44	4,378.0	-235.0	266.2	-215.6	0.00	0.00	0.00
4,500.0	7.23	131.44	4,477.2	-243.3	275.6	-223.3	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #502H
Company:	Midland	TVD Reference:	kb = 26' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
4,600.0	7.23	131.44	4,576.4	-251.7	285.0	-230.9	0.00	0.00	0.00
4,700.0	7.23	131.44	4,675.6	-260.0	294.5	-238.6	0.00	0.00	0.00
4,800.0	7.23	131.44	4,774.9	-268.3	303.9	-246.2	0.00	0.00	0.00
4,900.0	7.23	131.44	4,874.1	-276.7	313.4	-253.9	0.00	0.00	0.00
5,000.0	7.23	131.44	4,973.3	-285.0	322.8	-261.5	0.00	0.00	0.00
5,035.0	7.23	131.44	5,008.0	-287.9	326.1	-264.2	0.00	0.00	0.00
BASE_SALT									
5,100.0	7.23	131.44	5,072.5	-293.3	332.2	-269.1	0.00	0.00	0.00
5,200.0	7.23	131.44	5,171.7	-301.7	341.7	-276.8	0.00	0.00	0.00
5,296.1	7.23	131.44	5,267.0	-309.7	350.8	-284.1	0.00	0.00	0.00
LMAR									
5,300.0	7.23	131.44	5,270.9	-310.0	351.1	-284.4	0.00	0.00	0.00
5,343.5	7.23	131.44	5,314.0	-313.6	355.2	-287.8	0.00	0.00	0.00
BLCN									
5,400.0	7.23	131.44	5,370.1	-318.3	360.6	-292.1	0.00	0.00	0.00
5,500.0	7.23	131.44	5,469.3	-326.7	370.0	-299.7	0.00	0.00	0.00
5,600.0	7.23	131.44	5,568.5	-335.0	379.4	-307.4	0.00	0.00	0.00
5,700.0	7.23	131.44	5,667.7	-343.3	388.9	-315.0	0.00	0.00	0.00
5,800.0	7.23	131.44	5,766.9	-351.7	398.3	-322.7	0.00	0.00	0.00
5,900.0	7.23	131.44	5,866.1	-360.0	407.8	-330.3	0.00	0.00	0.00
6,000.0	7.23	131.44	5,965.3	-368.3	417.2	-338.0	0.00	0.00	0.00
6,100.0	7.23	131.44	6,064.5	-376.7	426.6	-345.6	0.00	0.00	0.00
6,200.0	7.23	131.44	6,163.7	-385.0	436.1	-353.3	0.00	0.00	0.00
6,300.0	7.23	131.44	6,262.9	-393.3	445.5	-360.9	0.00	0.00	0.00
6,335.4	7.23	131.44	6,298.0	-396.3	448.9	-363.6	0.00	0.00	0.00
CYCN									
6,400.0	7.23	131.44	6,362.1	-401.7	455.0	-368.6	0.00	0.00	0.00
6,500.0	7.23	131.44	6,461.3	-410.0	464.4	-376.2	0.00	0.00	0.00
6,600.0	7.23	131.44	6,560.5	-418.3	473.9	-383.9	0.00	0.00	0.00
6,700.0	7.23	131.44	6,659.7	-426.7	483.3	-391.5	0.00	0.00	0.00
6,800.0	7.23	131.44	6,758.9	-435.0	492.7	-399.2	0.00	0.00	0.00
6,900.0	7.23	131.44	6,858.1	-443.4	502.2	-406.8	0.00	0.00	0.00
7,000.0	7.23	131.44	6,957.3	-451.7	511.6	-414.5	0.00	0.00	0.00
7,100.0	7.23	131.44	7,056.5	-460.0	521.1	-422.1	0.00	0.00	0.00
7,200.0	7.23	131.44	7,155.7	-468.4	530.5	-429.8	0.00	0.00	0.00
7,300.0	7.23	131.44	7,254.9	-476.7	539.9	-437.4	0.00	0.00	0.00
7,400.0	7.23	131.44	7,354.2	-485.0	549.4	-445.0	0.00	0.00	0.00
7,458.5	7.23	131.44	7,412.2	-489.9	554.9	-449.5	0.00	0.00	0.00
7,500.0	6.41	131.44	7,453.4	-493.2	558.6	-452.5	2.00	-2.00	0.00
7,600.0	4.41	131.44	7,552.9	-499.4	565.7	-458.2	2.00	-2.00	0.00
7,700.0	2.41	131.44	7,652.8	-503.3	570.1	-461.8	2.00	-2.00	0.00
7,800.0	0.41	131.44	7,752.7	-505.0	571.9	-463.3	2.00	-2.00	0.00
7,820.3	0.00	0.00	7,773.0	-505.0	572.0	-463.4	2.00	-2.00	0.00
BYCN_POR									
7,900.0	0.00	0.00	7,852.7	-505.0	572.0	-463.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,952.7	-505.0	572.0	-463.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,052.7	-505.0	572.0	-463.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,152.7	-505.0	572.0	-463.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,252.7	-505.0	572.0	-463.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,352.7	-505.0	572.0	-463.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,452.7	-505.0	572.0	-463.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,552.7	-505.0	572.0	-463.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,652.7	-505.0	572.0	-463.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,752.7	-505.0	572.0	-463.4	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #502H
Company:	Midland	TVD Reference:	kb = 26' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
8,900.0	0.00	0.00	8,852.7	-505.0	572.0	-463.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,952.7	-505.0	572.0	-463.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,052.7	-505.0	572.0	-463.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,152.7	-505.0	572.0	-463.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,252.7	-505.0	572.0	-463.4	0.00	0.00	0.00
9,321.3	0.00	0.00	9,274.0	-505.0	572.0	-463.4	0.00	0.00	0.00
BSGL									
9,400.0	0.00	0.00	9,352.7	-505.0	572.0	-463.4	0.00	0.00	0.00
9,400.3	0.00	0.00	9,353.0	-505.0	572.0	-463.4	0.00	0.00	0.00
LNRD_A									
9,500.0	0.00	0.00	9,452.7	-505.0	572.0	-463.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,552.7	-505.0	572.0	-463.4	0.00	0.00	0.00
9,676.3	0.00	0.00	9,629.0	-505.0	572.0	-463.4	0.00	0.00	0.00
LNRD_B									
9,700.0	0.00	0.00	9,652.7	-505.0	572.0	-463.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,752.7	-505.0	572.0	-463.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,852.7	-505.0	572.0	-463.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,952.7	-505.0	572.0	-463.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,052.7	-505.0	572.0	-463.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,152.7	-505.0	572.0	-463.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,252.7	-505.0	572.0	-463.4	0.00	0.00	0.00
10,331.3	0.00	0.00	10,284.0	-505.0	572.0	-463.4	0.00	0.00	0.00
FBSG_SD									
10,400.0	0.00	0.00	10,352.7	-505.0	572.0	-463.4	0.00	0.00	0.00
10,419.8	0.00	0.00	10,372.5	-505.0	572.0	-463.4	0.00	0.00	0.00
10,450.0	3.02	359.57	10,402.7	-504.2	572.0	-462.6	10.00	10.00	0.00
10,500.0	8.02	359.57	10,452.5	-499.4	572.0	-457.8	10.00	10.00	0.00
10,550.0	13.02	359.57	10,501.6	-490.3	571.9	-448.7	10.00	10.00	0.00
10,583.5	16.37	359.57	10,534.0	-481.8	571.8	-440.2	10.00	10.00	0.00
SBSG_SH									
10,600.0	18.02	359.57	10,549.8	-476.9	571.8	-435.3	10.00	10.00	0.00
10,650.0	23.02	359.57	10,596.6	-459.4	571.7	-417.9	10.00	10.00	0.00
10,700.0	28.02	359.57	10,641.7	-437.8	571.5	-396.4	10.00	10.00	0.00
10,750.0	33.02	359.57	10,684.7	-412.4	571.3	-371.1	10.00	10.00	0.00
10,800.0	38.02	359.57	10,725.4	-383.4	571.1	-342.1	10.00	10.00	0.00
10,850.0	43.02	359.57	10,763.4	-350.9	570.8	-309.8	10.00	10.00	0.00
10,900.0	48.02	359.57	10,798.4	-315.3	570.6	-274.2	10.00	10.00	0.00
10,950.0	53.02	359.57	10,830.2	-276.7	570.3	-235.7	10.00	10.00	0.00
10,989.7	57.00	359.57	10,853.0	-244.1	570.0	-203.3	10.00	10.00	0.00
SBSG_SD									
11,000.0	58.02	359.57	10,858.5	-235.5	570.0	-194.7	10.00	10.00	0.00
11,050.0	63.02	359.57	10,883.1	-192.0	569.6	-151.3	10.00	10.00	0.00
11,100.0	68.02	359.57	10,903.8	-146.5	569.3	-105.9	10.00	10.00	0.00
11,117.1	69.74	359.57	10,910.0	-130.5	569.2	-90.0	10.00	10.00	0.00
SBSG_SD_B									
11,150.0	73.02	359.57	10,920.5	-99.4	568.9	-59.0	10.00	10.00	0.00
11,195.3	77.56	359.57	10,932.0	-55.5	568.6	-15.2	10.00	10.00	0.00
SBSG B SD TOW									
11,200.0	78.02	359.57	10,933.0	-51.0	568.6	-10.7	10.00	10.00	0.00
11,250.0	83.02	359.57	10,941.2	-1.7	568.2	38.4	10.00	10.00	0.00
11,300.0	88.02	359.57	10,945.1	48.2	567.8	88.1	10.00	10.00	0.00
11,329.1	90.94	359.57	10,945.4	77.3	567.6	117.2	10.00	10.00	0.00
11,400.0	90.94	359.57	10,944.2	148.2	567.1	187.8	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #502H
Company:	Midland	TVD Reference:	kb = 26' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
11,500.0	90.94	359.57	10,942.6	248.1	566.3	287.5	0.00	0.00	0.00
11,600.0	90.94	359.57	10,941.0	348.1	565.5	387.2	0.00	0.00	0.00
11,700.0	90.94	359.57	10,939.3	448.1	564.8	486.8	0.00	0.00	0.00
11,800.0	90.94	359.57	10,937.7	548.1	564.0	586.5	0.00	0.00	0.00
11,900.0	90.94	359.57	10,936.1	648.1	563.3	686.2	0.00	0.00	0.00
12,000.0	90.94	359.57	10,934.4	748.1	562.5	785.9	0.00	0.00	0.00
12,100.0	90.94	359.57	10,932.8	848.0	561.8	885.6	0.00	0.00	0.00
12,200.0	90.94	359.57	10,931.2	948.0	561.0	985.3	0.00	0.00	0.00
12,300.0	90.94	359.57	10,929.5	1,048.0	560.2	1,084.9	0.00	0.00	0.00
12,400.0	90.94	359.57	10,927.9	1,148.0	559.5	1,184.6	0.00	0.00	0.00
12,500.0	90.94	359.57	10,926.3	1,248.0	558.7	1,284.3	0.00	0.00	0.00
12,600.0	90.94	359.57	10,924.6	1,348.0	558.0	1,384.0	0.00	0.00	0.00
12,700.0	90.94	359.57	10,923.0	1,447.9	557.2	1,483.7	0.00	0.00	0.00
12,800.0	90.94	359.57	10,921.4	1,547.9	556.5	1,583.3	0.00	0.00	0.00
12,900.0	90.94	359.57	10,919.7	1,647.9	555.7	1,683.0	0.00	0.00	0.00
13,000.0	90.94	359.57	10,918.1	1,747.9	554.9	1,782.7	0.00	0.00	0.00
13,100.0	90.94	359.57	10,916.5	1,847.9	554.2	1,882.4	0.00	0.00	0.00
13,200.0	90.94	359.57	10,914.8	1,947.9	553.4	1,982.1	0.00	0.00	0.00
13,300.0	90.94	359.57	10,913.2	2,047.8	552.7	2,081.7	0.00	0.00	0.00
13,400.0	90.94	359.57	10,911.6	2,147.8	551.9	2,181.4	0.00	0.00	0.00
13,500.0	90.94	359.57	10,910.0	2,247.8	551.2	2,281.1	0.00	0.00	0.00
13,600.0	90.94	359.57	10,908.3	2,347.8	550.4	2,380.8	0.00	0.00	0.00
13,700.0	90.94	359.57	10,906.7	2,447.8	549.6	2,480.5	0.00	0.00	0.00
13,800.0	90.94	359.57	10,905.1	2,547.8	548.9	2,580.2	0.00	0.00	0.00
13,900.0	90.94	359.57	10,903.4	2,647.8	548.1	2,679.8	0.00	0.00	0.00
14,000.0	90.94	359.57	10,901.8	2,747.7	547.4	2,779.5	0.00	0.00	0.00
14,100.0	90.94	359.57	10,900.2	2,847.7	546.6	2,879.2	0.00	0.00	0.00
14,200.0	90.94	359.57	10,898.5	2,947.7	545.9	2,978.9	0.00	0.00	0.00
14,300.0	90.94	359.57	10,896.9	3,047.7	545.1	3,078.6	0.00	0.00	0.00
14,400.0	90.94	359.57	10,895.3	3,147.7	544.3	3,178.2	0.00	0.00	0.00
14,500.0	90.94	359.57	10,893.6	3,247.7	543.6	3,277.9	0.00	0.00	0.00
14,600.0	90.94	359.57	10,892.0	3,347.6	542.8	3,377.6	0.00	0.00	0.00
14,700.0	90.94	359.57	10,890.4	3,447.6	542.1	3,477.3	0.00	0.00	0.00
14,800.0	90.94	359.57	10,888.7	3,547.6	541.3	3,577.0	0.00	0.00	0.00
14,900.0	90.94	359.57	10,887.1	3,647.6	540.6	3,676.6	0.00	0.00	0.00
15,000.0	90.94	359.57	10,885.5	3,747.6	539.8	3,776.3	0.00	0.00	0.00
15,100.0	90.94	359.57	10,883.8	3,847.6	539.0	3,876.0	0.00	0.00	0.00
15,200.0	90.94	359.57	10,882.2	3,947.5	538.3	3,975.7	0.00	0.00	0.00
15,300.0	90.94	359.57	10,880.6	4,047.5	537.5	4,075.4	0.00	0.00	0.00
15,400.0	90.94	359.57	10,878.9	4,147.5	536.8	4,175.0	0.00	0.00	0.00
15,500.0	90.94	359.57	10,877.3	4,247.5	536.0	4,274.7	0.00	0.00	0.00
15,600.0	90.94	359.57	10,875.7	4,347.5	535.3	4,374.4	0.00	0.00	0.00
15,700.0	90.94	359.57	10,874.0	4,447.5	534.5	4,474.1	0.00	0.00	0.00
15,800.0	90.94	359.57	10,872.4	4,547.4	533.7	4,573.8	0.00	0.00	0.00
15,900.0	90.94	359.57	10,870.8	4,647.4	533.0	4,673.5	0.00	0.00	0.00
16,000.0	90.94	359.57	10,869.1	4,747.4	532.2	4,773.1	0.00	0.00	0.00
16,100.0	90.94	359.57	10,867.5	4,847.4	531.5	4,872.8	0.00	0.00	0.00
16,148.2	90.94	359.57	10,866.7	4,895.6	531.1	4,920.9	0.00	0.00	0.00
16,165.6	91.28	359.56	10,866.4	4,913.0	531.0	4,938.2	2.00	2.00	-0.04
16,200.0	91.28	359.56	10,865.6	4,947.4	530.7	4,972.5	0.00	0.00	0.00
16,300.0	91.28	359.56	10,863.4	5,047.3	529.9	5,072.2	0.00	0.00	0.00
16,400.0	91.28	359.56	10,861.1	5,147.3	529.2	5,171.8	0.00	0.00	0.00
16,500.0	91.28	359.56	10,858.9	5,247.3	528.4	5,271.5	0.00	0.00	0.00
16,600.0	91.28	359.56	10,856.7	5,347.3	527.6	5,371.2	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #502H
Company:	Midland	TVD Reference:	kb = 26' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)	
16,700.0	91.28	359.56	10,854.4	5,447.2	526.9	5,470.8	0.00	0.00	0.00	
16,800.0	91.28	359.56	10,852.2	5,547.2	526.1	5,570.5	0.00	0.00	0.00	
16,900.0	91.28	359.56	10,849.9	5,647.2	525.3	5,670.2	0.00	0.00	0.00	
17,000.0	91.28	359.56	10,847.7	5,747.1	524.6	5,769.8	0.00	0.00	0.00	
17,100.0	91.28	359.56	10,845.5	5,847.1	523.8	5,869.5	0.00	0.00	0.00	
17,200.0	91.28	359.56	10,843.2	5,947.1	523.0	5,969.2	0.00	0.00	0.00	
17,300.0	91.28	359.56	10,841.0	6,047.1	522.3	6,068.8	0.00	0.00	0.00	
17,400.0	91.28	359.56	10,838.7	6,147.0	521.5	6,168.5	0.00	0.00	0.00	
17,500.0	91.28	359.56	10,836.5	6,247.0	520.7	6,268.2	0.00	0.00	0.00	
17,600.0	91.28	359.56	10,834.3	6,347.0	519.9	6,367.8	0.00	0.00	0.00	
17,700.0	91.28	359.56	10,832.0	6,447.0	519.2	6,467.5	0.00	0.00	0.00	
17,800.0	91.28	359.56	10,829.8	6,546.9	518.4	6,567.2	0.00	0.00	0.00	
17,900.0	91.28	359.56	10,827.5	6,646.9	517.6	6,666.9	0.00	0.00	0.00	
18,000.0	91.28	359.56	10,825.3	6,746.9	516.9	6,766.5	0.00	0.00	0.00	
18,100.0	91.28	359.56	10,823.1	6,846.8	516.1	6,866.2	0.00	0.00	0.00	
18,200.0	91.28	359.56	10,820.8	6,946.8	515.3	6,965.9	0.00	0.00	0.00	
18,300.0	91.28	359.56	10,818.6	7,046.8	514.6	7,065.5	0.00	0.00	0.00	
18,400.0	91.28	359.56	10,816.3	7,146.8	513.8	7,165.2	0.00	0.00	0.00	
18,504.3	91.28	359.56	10,814.0	7,251.0	513.0	7,269.1	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	
Brushy Top(Diamond 31 - plan hits target center - Polygon	0.00	0.00	7,773.0	-505.0	572.0	425,430.00	794,879.00	32° 10' 0.954 N	103° 30' 50.221 W	
Point 1			7,773.0	50.0	-60.0	425,480.00	794,819.00			
Point 2			7,773.0	50.0	60.0	425,480.00	794,939.00			
Point 3			7,773.0	-30.0	60.0	425,400.00	794,939.00			
Point 4			7,773.0	-30.0	-60.0	425,400.00	794,819.00			
PBHL(Diamond 31 Fed Com - plan hits target center - Rectangle (sides W60.0 H0.0 D7,706.1)	90.00	359.56	10,814.0	7,251.0	513.0	433,186.00	794,820.00	32° 11' 17.705 N	103° 30' 50.220 W	
TGT#1(DIAMOND 31 Fed Com - plan hits target center - Point	0.00	0.00	10,866.7	4,895.6	531.1	430,830.60	794,838.10	32° 10' 54.397 N	103° 30' 50.218 W	
FTP(Diamond 31 Fed Com - plan misses target center by 203.2usft at 10900.0usft MD (10798.4 TVD, -315.3 N, 570.6 E) - Point	0.00	0.00	10,946.0	-455.0	572.0	425,480.00	794,879.00	32° 10' 1.449 N	103° 30' 50.216 W	



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #502H
Company:	Midland	TVD Reference:	kb = 26' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,185.0	1,185.0	RSLR				
1,263.0	1,263.0	TMSK_ANHY				
1,708.6	1,708.0	TOP_SALT				
5,035.0	5,008.0	BASE_SALT				
5,296.1	5,267.0	LMAR				
5,343.5	5,314.0	BLCN				
6,335.4	6,298.0	CYCN				
7,820.3	7,773.0	BYCN_POR				
9,321.3	9,274.0	BSGL				
9,400.3	9,353.0	LNRD_A				
9,676.3	9,629.0	LNRD_B				
10,331.3	10,284.0	FBSG_SD				
10,583.5	10,534.0	SBSG_SH				
10,989.7	10,853.0	SBSG_SD				
11,117.1	10,910.0	SBSG_SD_B				
11,195.3	10,932.0	SBSG B SD TOW				

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

As-Completed Plat
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT

AS-COMPLETED PLAT

API Number 30-025-49235	Pool Code 4050	Pool Name WC025 G09 S263406D; LOWER BONE SPRING
Property Code 98038	Property Name DIAMOND 31 FED COM	Well Number 502H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3467'

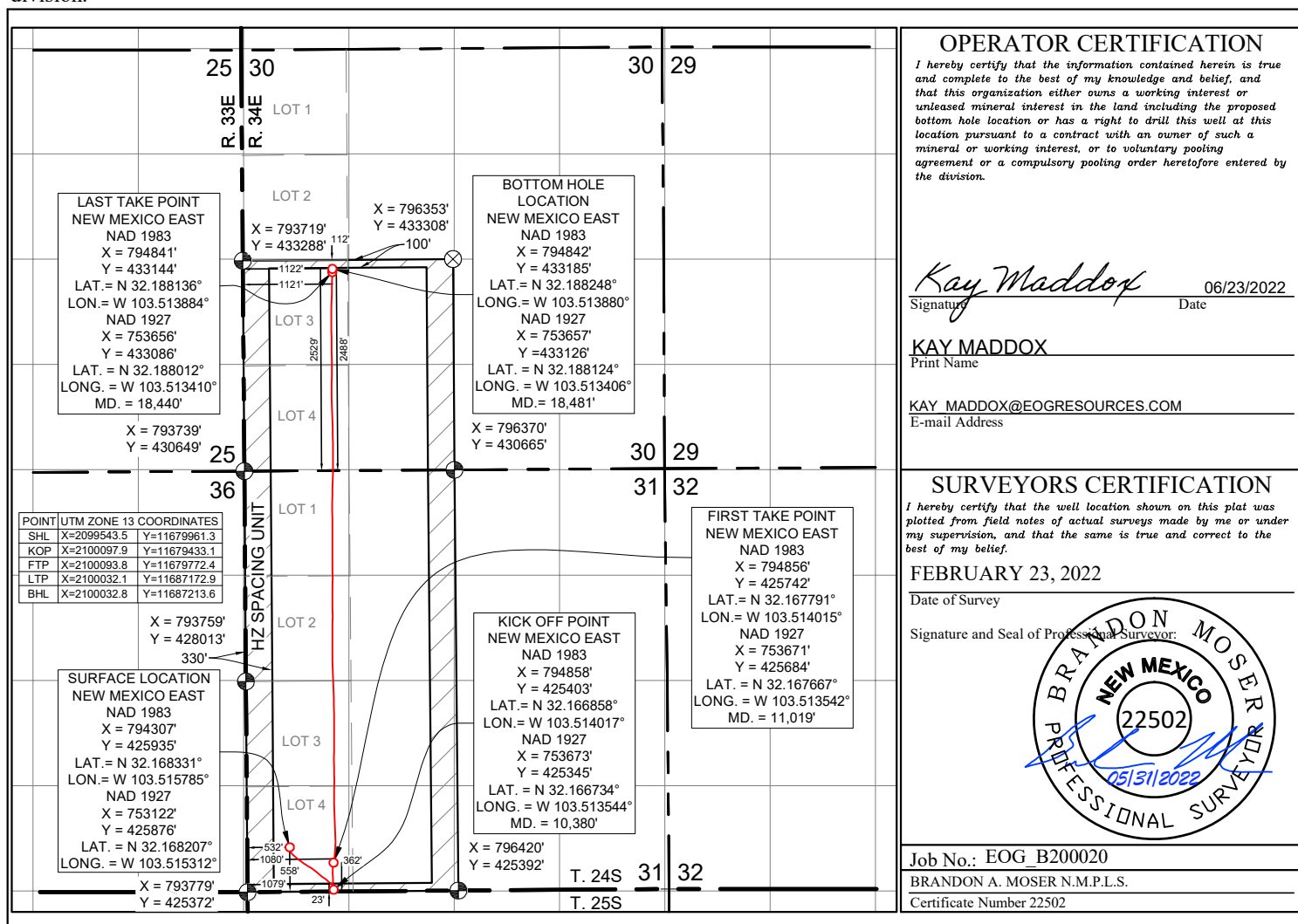
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	31	24 S	34 E		558	SOUTH	532	WEST	LEA

Bottom 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
3	30	24 S	34 E		2529	SOUTH	1122	WEST	LEA
Dedicated Acres 480.00	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.



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 521857

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 521857
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Work was performed without OCD approval.	11/3/2025