

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**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	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
☐ Final Abandonment Notice	☐ 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 recompleat 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 performed 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 recompleat 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

Emily Follis

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: SWSW / 392 FSL / 902 FWL / TWSP: 24S / RANGE: 32E / SECTION: 3 / LAT: 32.2403972 / LONG: -103.668125 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FNL / 1330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 3 / LAT: 32.2396006 / LONG: -103.6667415 (TVD: 11935 feet, MD: 11957 feet)

PPP: NENW / 1320 FNL / 1330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 3 / LAT: 32.2429535 / LONG: -103.6667421 (TVD: 12200 feet, MD: 13279 feet)

BHL: NENW / 1419 FSL / 715 FWL / TWSP: 23S / RANGE: 32E / SECTION: 15 / LAT: 32.2680676 / LONG: -103.6667471 (TVD: 12200 feet, MD: 22415 feet)

CONFIDENTIAL

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 30-025-47261	² Pool Code 98248	³ Pool Name WC-025 G-08 S243217P; Upper Wolfcamp
⁴ Property Code 331837	⁵ Property Name MODELO 3 FED COM	⁶ Well Number 732H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3653'

¹⁰Surface Location

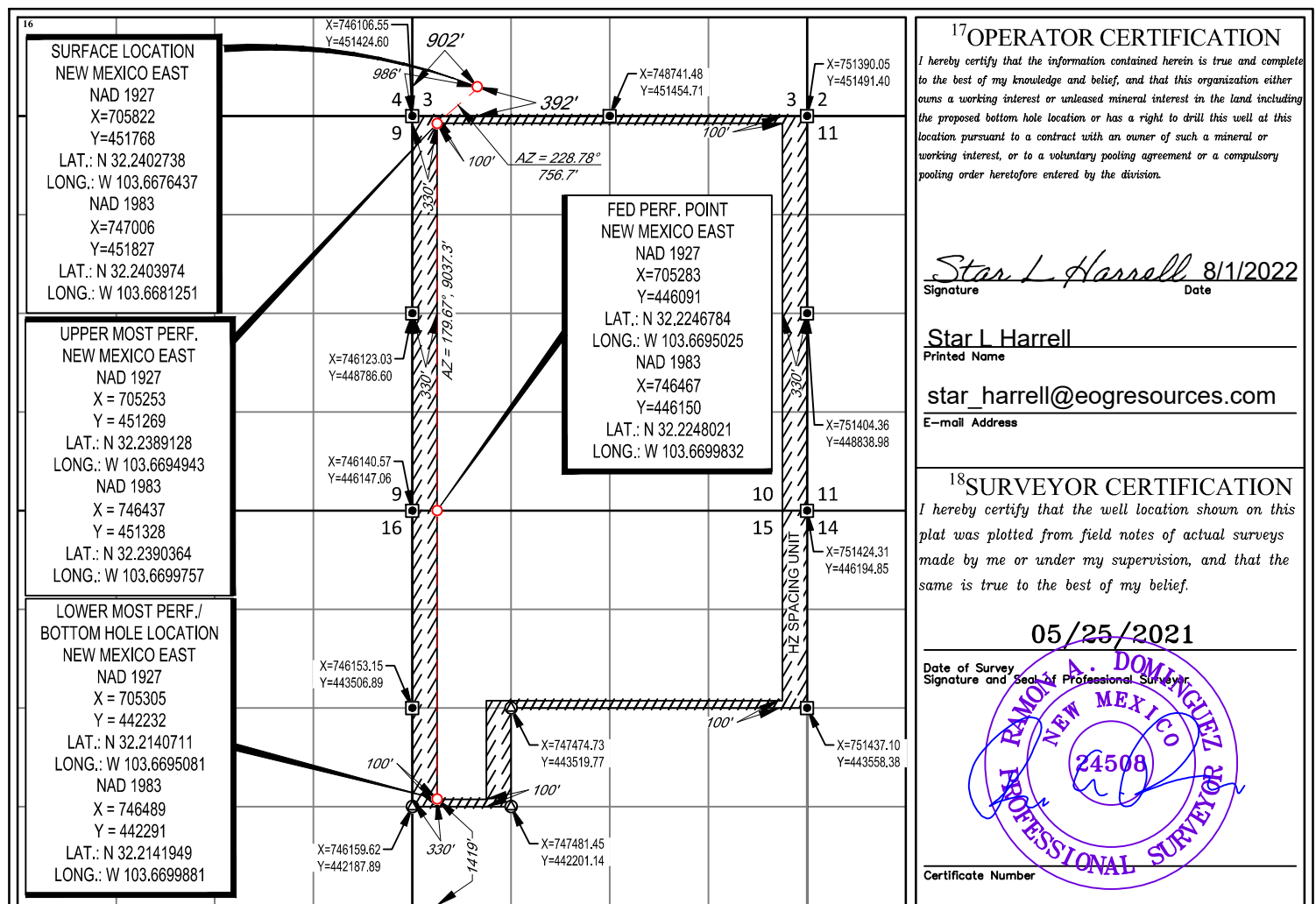
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	3	24-S	32-E	-	392'	SOUTH	902'	WEST	LEA

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
L	15	24-S	32-E	-	1419'	SOUTH	330'	WEST	LEA

¹² Dedicated Acres 1000.00	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.



**Modelo 3 Fed Com 732H****Revised Permit Information 06/03/2022:**

Well Name: Modelo 3 Fed Com 732H

Location: SHL: 392' FSL & 902' FWL, Section 3, T-24-S, R-32-E, Lea Co., N.M.

BHL: 1419' FSL & 330' FWL, Section 15, T-24-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
12-1/4"	0	1,230	0	1,230	9-5/8"	36#	J-55	LTC
8-3/4"	0	11,160	0	11,093	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,660	0	10,593	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,660	11,160	10,593	11,093	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	11,160	21,189	11,093	12,289	5-1/2"	20#	P110-EC	DWC/C IS MS

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

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

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 production open hole section.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,230' 9-5/8"	340	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 @ 1,030')
11,160' 7-5/8"	510	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,850')
	1170	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
21,189' 5-1/2"	900	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,660')

**Modelo 3 Fed Com 732H**

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

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,050') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 170 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top 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.

Mud Program:

Measured Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,230'	Fresh - Gel	8.6-8.8	28-34	N/c
1,230' – 11,160'	Brine	10.0-10.2	28-34	N/c
11,160' – 11,774'	Oil Base	8.7-9.4	58-68	N/c - 6
11,774' – 21,189' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



Modelo 3 Fed Com 732H

Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



Modelo 3 Fed Com 732H

392' FSL
902' FWL
Section 3
T-24-S, R-32-E

Revised Wellbore

KB: 3678'
GL: 3653'

API: 30-025-47261

Bit Size: 12-1/4"
9-5/8", 36#, J-55, LTC,
@ 0' - 1,230'

Bit Size: 8-3/4"
7-5/8", 29.7#, HCP-110, FXL,
@ 0' - 11,160'

Bit Size: 6-3/4"
5-1/2", 20#, P110-EC, DWC/C IS MS,
@ 0' - 10,660'
5-1/2", 20#, P110-EC, Vam Sprint SF,
@ 10,660' - 11,160'
5-1/2", 20#, P110-EC, DWC/C IS MS,
@ 11,160' - 21,189'

KOP: 11,774' MD, 11,694' TVD
EOC: 12,524' MD, 12,289' TVD

TOC: 10,660' MD, 10,593' TVD

Lateral: 21,189' MD, 12,289' TVD
Upper Most Perf:
100' FNL & 330' FWL Sec. 10
Lower Most Perf:
1419' FSL & 330' FWL Sec. 15
BH Location: 1419' FSL & 330' FWL
Sec. 15
T-24-S R-32-E



Modelo 3 Fed Com 732H

Design B**4. CASING PROGRAM**

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
13"	0	1,230	0	1,230	10-3/4"	40.5#	J-55	STC
9-7/8"	0	11,160	0	11,093	8-3/4"	38.5#	P110-EC	Vam Sprint-SF
7-7/8"	0	21,189	0	12,289	5-1/2"	20#	P110-EC	DWC/C IS MS

Variance is requested to waive the centralizer requirements for the 8-3/4" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" 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 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" 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 8-3/4" 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 production open hole section.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,230' 10-3/4"	310	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	70	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,030')
11,160' 8-3/4"	570	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,850')
	1330	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
21,189' 5-1/2"	1800	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,660')



Modelo 3 Fed Com 732H

EOG requests variance from minimum standards to pump a two stage cement job on the 8-3/4" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,050') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 331 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top 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.

Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



Modelo 3 Fed Com 732H

392' FSL
902' FWL
Section 3
T-24-S, R-32-E

Proposed Wellbore

KB: 3678'
GL: 3653'

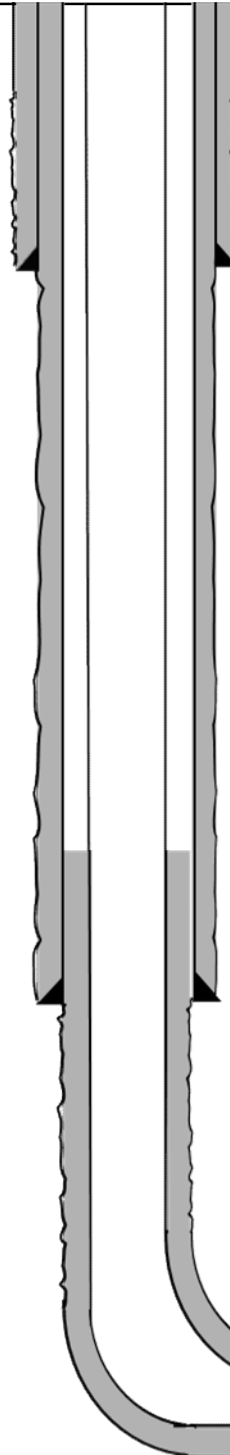
API: 30-025-47261

Bit Size: 13"
10-3/4", 40.5#, J-55, STC,
@ 0' - 1,230'

Bit Size: 9-7/8"
8-3/4" 38.5#, P110-EC, Vam Sprint-SF,
@ 0' - 11,160'

Bit Size: 7-7/8"
5-1/2", 20#, P110-EC, DWC/C IS MS,
@ 0' - 21,189'

KOP: 11,774' MD, 11,694' TVD
EOC: 12,524' MD, 12,289' TVD



TOC: 10,660' MD, 10,593' TVD

Lateral: 21,189' MD, 12,289' TVD
Upper Most Perf:
100' FNL & 330' FWL Sec. 10
Lower Most Perf:
1419' FSL & 330' FWL Sec. 15
BH Location: 1419' FSL & 330' FWL
Sec. 15
T-24-S R-32-E



Midland

Lea County, NM (NAD 83 NME)

Modelo 3 Fed Com

#732H

75938

OH

Plan: Plan #1

Standard Planning Report

06 June, 2022



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #732H
Company:	Midland	TVD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Site:	Modelo 3 Fed Com	North Reference:	Grid
Well:	#732H	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	Modelo 3 Fed Com		
Site Position:		Northing:	451,998.00 usft
From:	Map	Easting:	750,134.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.2408137°N
		Longitude:	103.6580060°W

Well	#732H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
Grid Convergence:	0.35 °	Ground Level:	3,653.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/23/2022	6.48	59.87	47,394.68151162

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	183.10	

Plan Survey Tool Program	Date	6/6/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	21,188.6 Plan #1 (OH)	EOG MWD+IFR1		
			MWD + IFR1		



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #732H
Company:	Midland	TVD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Site:	Modelo 3 Fed Com	North Reference:	Grid
Well:	#732H	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	
1,335.0	0.00	0.00	1,335.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,019.0	13.68	231.72	2,012.6	-50.3	-63.8	2.00	2.00	0.00	231.72	
4,396.4	13.68	231.72	4,322.4	-398.7	-505.2	0.00	0.00	0.00	0.00	
5,080.4	0.00	179.67	5,000.0	-449.0	-569.0	2.00	-2.00	0.00	180.00	
11,774.4	0.00	179.67	11,694.0	-449.0	-569.0	0.00	0.00	0.00	0.00	KOP(Modelo 3 Fed C
12,672.9	89.85	179.67	12,267.0	-1,020.5	-565.7	10.00	10.00	0.00	179.67	
17,329.6	89.85	179.67	12,278.9	-5,677.0	-539.0	0.00	0.00	0.00	0.00	FPP (MODELO 3 FEI
21,188.6	89.85	179.68	12,289.0	-9,536.0	-517.0	0.00	0.00	0.00	144.42	PBHL(Modelo 3 Fed (



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #732H
Company:	Midland	TVD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Site:	Modelo 3 Fed Com	North Reference:	Grid
Well:	#732H	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
1,133.0	0.00	0.00	1,133.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,205.0	0.00	0.00	1,205.0	0.0	0.0	0.0	0.00	0.00	0.00
Tamarisk Anhydrite									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,335.0	0.00	0.00	1,335.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	1.30	231.72	1,400.0	-0.5	-0.6	0.5	2.00	2.00	0.00
1,438.0	2.06	231.72	1,438.0	-1.1	-1.5	1.2	2.00	2.00	0.00
Top of Salt									
1,500.0	3.30	231.72	1,499.9	-2.9	-3.7	3.1	2.00	2.00	0.00
1,600.0	5.30	231.72	1,599.6	-7.6	-9.6	8.1	2.00	2.00	0.00
1,700.0	7.30	231.72	1,699.0	-14.4	-18.2	15.4	2.00	2.00	0.00
1,800.0	9.30	231.72	1,798.0	-23.3	-29.6	24.9	2.00	2.00	0.00
1,900.0	11.30	231.72	1,896.3	-34.4	-43.6	36.7	2.00	2.00	0.00
2,000.0	13.30	231.72	1,994.0	-47.6	-60.3	50.8	2.00	2.00	0.00
2,019.0	13.68	231.72	2,012.6	-50.3	-63.8	53.7	2.00	2.00	0.00
2,100.0	13.68	231.72	2,091.2	-62.2	-78.8	66.4	0.00	0.00	0.00
2,200.0	13.68	231.72	2,188.4	-76.9	-97.4	82.0	0.00	0.00	0.00
2,300.0	13.68	231.72	2,285.5	-91.5	-116.0	97.7	0.00	0.00	0.00
2,400.0	13.68	231.72	2,382.7	-106.2	-134.5	113.3	0.00	0.00	0.00
2,500.0	13.68	231.72	2,479.9	-120.8	-153.1	128.9	0.00	0.00	0.00
2,600.0	13.68	231.72	2,577.0	-135.5	-171.7	144.6	0.00	0.00	0.00
2,700.0	13.68	231.72	2,674.2	-150.1	-190.2	160.2	0.00	0.00	0.00
2,800.0	13.68	231.72	2,771.4	-164.8	-208.8	175.8	0.00	0.00	0.00
2,900.0	13.68	231.72	2,868.5	-179.4	-227.4	191.5	0.00	0.00	0.00
3,000.0	13.68	231.72	2,965.7	-194.1	-245.9	207.1	0.00	0.00	0.00
3,100.0	13.68	231.72	3,062.9	-208.7	-264.5	222.7	0.00	0.00	0.00
3,200.0	13.68	231.72	3,160.0	-223.4	-283.1	238.4	0.00	0.00	0.00
3,300.0	13.68	231.72	3,257.2	-238.0	-301.6	254.0	0.00	0.00	0.00
3,400.0	13.68	231.72	3,354.3	-252.7	-320.2	269.6	0.00	0.00	0.00
3,500.0	13.68	231.72	3,451.5	-267.3	-338.8	285.3	0.00	0.00	0.00
3,600.0	13.68	231.72	3,548.7	-282.0	-357.3	300.9	0.00	0.00	0.00
3,700.0	13.68	231.72	3,645.8	-296.6	-375.9	316.5	0.00	0.00	0.00
3,800.0	13.68	231.72	3,743.0	-311.3	-394.5	332.2	0.00	0.00	0.00
3,900.0	13.68	231.72	3,840.2	-325.9	-413.0	347.8	0.00	0.00	0.00
4,000.0	13.68	231.72	3,937.3	-340.6	-431.6	363.4	0.00	0.00	0.00
4,100.0	13.68	231.72	4,034.5	-355.2	-450.2	379.1	0.00	0.00	0.00
4,200.0	13.68	231.72	4,131.6	-369.9	-468.7	394.7	0.00	0.00	0.00
4,300.0	13.68	231.72	4,228.8	-384.5	-487.3	410.3	0.00	0.00	0.00
4,396.4	13.68	231.72	4,322.4	-398.7	-505.2	425.4	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #732H
Company:	Midland	TVD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Site:	Modelo 3 Fed Com	North Reference:	Grid
Well:	#732H	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)
4,400.0	13.61	231.72	4,326.0	-399.2	-505.9	426.0	2.00	-2.00	0.00
4,500.0	11.61	231.72	4,423.6	-412.7	-523.0	440.4	2.00	-2.00	0.00
4,600.0	9.61	231.72	4,521.8	-424.1	-537.5	452.6	2.00	-2.00	0.00
4,700.0	7.61	231.72	4,620.7	-433.4	-549.2	462.5	2.00	-2.00	0.00
4,723.5	7.14	231.72	4,644.0	-435.2	-551.6	464.5	2.00	-2.00	0.00
Base of Salt									
4,800.0	5.61	231.72	4,720.0	-440.5	-558.2	470.1	2.00	-2.00	0.00
4,900.0	3.61	231.72	4,819.7	-445.5	-564.5	475.4	2.00	-2.00	0.00
4,949.4	2.62	231.72	4,869.0	-447.1	-566.6	477.2	2.00	-2.00	0.00
Lamar									
4,973.4	2.14	231.72	4,893.0	-447.8	-567.4	477.8	2.00	-2.00	0.00
Bell Canyon									
5,000.0	1.61	231.72	4,919.6	-448.3	-568.1	478.4	2.00	-2.00	0.00
5,080.4	0.00	179.67	5,000.0	-449.0	-569.0	479.1	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,019.6	-449.0	-569.0	479.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,119.6	-449.0	-569.0	479.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,219.6	-449.0	-569.0	479.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,319.6	-449.0	-569.0	479.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,419.6	-449.0	-569.0	479.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,519.6	-449.0	-569.0	479.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,619.6	-449.0	-569.0	479.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,719.6	-449.0	-569.0	479.1	0.00	0.00	0.00
5,837.4	0.00	0.00	5,757.0	-449.0	-569.0	479.1	0.00	0.00	0.00
Cherry Canyon									
5,900.0	0.00	0.00	5,819.6	-449.0	-569.0	479.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,919.6	-449.0	-569.0	479.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,019.6	-449.0	-569.0	479.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,119.6	-449.0	-569.0	479.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,219.6	-449.0	-569.0	479.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,319.6	-449.0	-569.0	479.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,419.6	-449.0	-569.0	479.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,519.6	-449.0	-569.0	479.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,619.6	-449.0	-569.0	479.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,719.6	-449.0	-569.0	479.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,819.6	-449.0	-569.0	479.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,919.6	-449.0	-569.0	479.1	0.00	0.00	0.00
7,066.4	0.00	0.00	6,986.0	-449.0	-569.0	479.1	0.00	0.00	0.00
Brushy Porosity									
7,100.0	0.00	0.00	7,019.6	-449.0	-569.0	479.1	0.00	0.00	0.00
7,129.4	0.00	0.00	7,049.0	-449.0	-569.0	479.1	0.00	0.00	0.00
Brushy Canyon									
7,200.0	0.00	0.00	7,119.6	-449.0	-569.0	479.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,219.6	-449.0	-569.0	479.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,319.6	-449.0	-569.0	479.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,419.6	-449.0	-569.0	479.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,519.6	-449.0	-569.0	479.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,619.6	-449.0	-569.0	479.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,719.6	-449.0	-569.0	479.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,819.6	-449.0	-569.0	479.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,919.6	-449.0	-569.0	479.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,019.6	-449.0	-569.0	479.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,119.6	-449.0	-569.0	479.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,219.6	-449.0	-569.0	479.1	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #732H
Company:	Midland	TVD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Site:	Modelo 3 Fed Com	North Reference:	Grid
Well:	#732H	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)
8,400.0	0.00	0.00	8,319.6	-449.0	-569.0	479.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,419.6	-449.0	-569.0	479.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,519.6	-449.0	-569.0	479.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,619.6	-449.0	-569.0	479.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,719.6	-449.0	-569.0	479.1	0.00	0.00	0.00
8,829.4	0.00	0.00	8,749.0	-449.0	-569.0	479.1	0.00	0.00	0.00
Bone Springs Lime									
8,900.0	0.00	0.00	8,819.6	-449.0	-569.0	479.1	0.00	0.00	0.00
8,929.4	0.00	0.00	8,849.0	-449.0	-569.0	479.1	0.00	0.00	0.00
Leonard A Shale									
9,000.0	0.00	0.00	8,919.6	-449.0	-569.0	479.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,019.6	-449.0	-569.0	479.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,119.6	-449.0	-569.0	479.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,219.6	-449.0	-569.0	479.1	0.00	0.00	0.00
9,328.4	0.00	0.00	9,248.0	-449.0	-569.0	479.1	0.00	0.00	0.00
Leonard B Shale									
9,400.0	0.00	0.00	9,319.6	-449.0	-569.0	479.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,419.6	-449.0	-569.0	479.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,519.6	-449.0	-569.0	479.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,619.6	-449.0	-569.0	479.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,719.6	-449.0	-569.0	479.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,819.6	-449.0	-569.0	479.1	0.00	0.00	0.00
9,936.4	0.00	0.00	9,856.0	-449.0	-569.0	479.1	0.00	0.00	0.00
First Bone Springs Sand									
10,000.0	0.00	0.00	9,919.6	-449.0	-569.0	479.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,019.6	-449.0	-569.0	479.1	0.00	0.00	0.00
10,157.4	0.00	0.00	10,077.0	-449.0	-569.0	479.1	0.00	0.00	0.00
Second Bone Springs Shale									
10,200.0	0.00	0.00	10,119.6	-449.0	-569.0	479.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,219.6	-449.0	-569.0	479.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,319.6	-449.0	-569.0	479.1	0.00	0.00	0.00
10,500.0	0.00	0.00	10,419.6	-449.0	-569.0	479.1	0.00	0.00	0.00
10,520.4	0.00	0.00	10,440.0	-449.0	-569.0	479.1	0.00	0.00	0.00
Second Bone Springs Sand									
10,600.0	0.00	0.00	10,519.6	-449.0	-569.0	479.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,619.6	-449.0	-569.0	479.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,719.6	-449.0	-569.0	479.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,819.6	-449.0	-569.0	479.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,919.6	-449.0	-569.0	479.1	0.00	0.00	0.00
11,100.0	0.00	0.00	11,019.6	-449.0	-569.0	479.1	0.00	0.00	0.00
11,134.4	0.00	0.00	11,054.0	-449.0	-569.0	479.1	0.00	0.00	0.00
Third Bone Springs Carbonate									
11,200.0	0.00	0.00	11,119.6	-449.0	-569.0	479.1	0.00	0.00	0.00
11,300.0	0.00	0.00	11,219.6	-449.0	-569.0	479.1	0.00	0.00	0.00
11,400.0	0.00	0.00	11,319.6	-449.0	-569.0	479.1	0.00	0.00	0.00
11,500.0	0.00	0.00	11,419.6	-449.0	-569.0	479.1	0.00	0.00	0.00
11,600.0	0.00	0.00	11,519.6	-449.0	-569.0	479.1	0.00	0.00	0.00
11,700.0	0.00	0.00	11,619.6	-449.0	-569.0	479.1	0.00	0.00	0.00
11,774.4	0.00	179.67	11,694.0	-449.0	-569.0	479.1	0.00	0.00	0.00
KOP(Modelo 3 Fed Com #732H)									
11,800.0	2.56	179.67	11,719.6	-449.6	-569.0	479.7	10.00	10.00	0.00
11,844.6	7.02	179.67	11,764.0	-453.3	-569.0	483.4	10.00	10.00	0.00
Third Bone Springs Sand									



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #732H
Company:	Midland	TVD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Site:	Modelo 3 Fed Com	North Reference:	Grid
Well:	#732H	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)
11,850.0	7.56	179.67	11,769.4	-454.0	-569.0	484.1	10.00	10.00	0.00
11,900.0	12.56	179.67	11,818.6	-462.7	-568.9	492.8	10.00	10.00	0.00
11,950.0	17.56	179.67	11,866.9	-475.7	-568.8	505.8	10.00	10.00	0.00
12,000.0	22.56	179.67	11,913.8	-492.8	-568.7	522.9	10.00	10.00	0.00
12,050.0	27.56	179.67	11,959.1	-514.0	-568.6	544.0	10.00	10.00	0.00
12,100.0	32.56	179.67	12,002.3	-539.0	-568.5	569.0	10.00	10.00	0.00
12,134.7	36.03	179.67	12,031.0	-558.6	-568.4	588.5	10.00	10.00	0.00
Third Bone Springs Flooding Surface									
12,150.0	37.56	179.67	12,043.3	-567.8	-568.3	597.7	10.00	10.00	0.00
12,200.0	42.56	179.67	12,081.5	-599.9	-568.1	629.8	10.00	10.00	0.00
12,207.5	43.31	179.67	12,087.0	-605.0	-568.1	634.9	10.00	10.00	0.00
Wolfcamp									
12,250.0	47.56	179.67	12,116.8	-635.3	-567.9	665.1	10.00	10.00	0.00
FTP(Modelo 3 Fed Com #732H)									
12,300.0	52.56	179.67	12,148.9	-673.6	-567.7	703.4	10.00	10.00	0.00
12,300.1	52.56	179.67	12,149.0	-673.7	-567.7	703.5	0.00	0.00	0.00
Wolfcamp Clastics X									
12,350.0	57.56	179.67	12,177.5	-714.6	-567.5	744.3	10.03	10.03	0.00
12,400.0	62.56	179.67	12,202.5	-757.9	-567.2	787.5	10.00	10.00	0.00
12,450.0	67.56	179.67	12,223.6	-803.2	-567.0	832.8	10.00	10.00	0.00
12,500.0	72.56	179.67	12,240.6	-850.2	-566.7	879.7	10.00	10.00	0.00
12,550.0	77.56	179.67	12,253.5	-898.5	-566.4	927.9	10.00	10.00	0.00
12,552.3	77.79	179.67	12,254.0	-900.8	-566.4	930.1	10.00	10.00	0.00
Wolfcamp Clastics Y									
12,567.4	79.30	179.67	12,257.0	-915.6	-566.3	944.9	10.00	10.00	0.00
TOW									
12,600.0	82.56	179.67	12,262.1	-947.7	-566.1	977.0	10.00	10.00	0.00
12,650.0	87.56	179.67	12,266.4	-997.5	-565.9	1,026.7	10.00	10.00	0.00
12,672.9	89.85	179.67	12,267.0	-1,020.5	-565.7	1,049.6	10.00	10.00	0.00
12,700.0	89.85	179.67	12,267.0	-1,047.5	-565.6	1,076.6	0.00	0.00	0.00
12,800.0	89.85	179.67	12,267.3	-1,147.5	-565.0	1,176.4	0.00	0.00	0.00
12,900.0	89.85	179.67	12,267.5	-1,247.5	-564.4	1,276.3	0.00	0.00	0.00
13,000.0	89.85	179.67	12,267.8	-1,347.5	-563.8	1,376.1	0.00	0.00	0.00
13,100.0	89.85	179.67	12,268.1	-1,447.5	-563.3	1,475.9	0.00	0.00	0.00
13,200.0	89.85	179.67	12,268.3	-1,547.5	-562.7	1,575.7	0.00	0.00	0.00
13,300.0	89.85	179.67	12,268.6	-1,647.5	-562.1	1,675.5	0.00	0.00	0.00
13,400.0	89.85	179.67	12,268.8	-1,747.5	-561.5	1,775.4	0.00	0.00	0.00
13,500.0	89.85	179.67	12,269.1	-1,847.5	-561.0	1,875.2	0.00	0.00	0.00
13,600.0	89.85	179.67	12,269.3	-1,947.5	-560.4	1,975.0	0.00	0.00	0.00
13,700.0	89.85	179.67	12,269.6	-2,047.5	-559.8	2,074.8	0.00	0.00	0.00
13,800.0	89.85	179.67	12,269.8	-2,147.5	-559.3	2,174.6	0.00	0.00	0.00
13,900.0	89.85	179.67	12,270.1	-2,247.5	-558.7	2,274.5	0.00	0.00	0.00
14,000.0	89.85	179.67	12,270.4	-2,347.5	-558.1	2,374.3	0.00	0.00	0.00
14,100.0	89.85	179.67	12,270.6	-2,447.5	-557.5	2,474.1	0.00	0.00	0.00
14,200.0	89.85	179.67	12,270.9	-2,547.5	-557.0	2,573.9	0.00	0.00	0.00
14,300.0	89.85	179.67	12,271.1	-2,647.5	-556.4	2,673.7	0.00	0.00	0.00
14,400.0	89.85	179.67	12,271.4	-2,747.5	-555.8	2,773.6	0.00	0.00	0.00
14,500.0	89.85	179.67	12,271.6	-2,847.5	-555.2	2,873.4	0.00	0.00	0.00
14,600.0	89.85	179.67	12,271.9	-2,947.5	-554.7	2,973.2	0.00	0.00	0.00
14,700.0	89.85	179.67	12,272.2	-3,047.5	-554.1	3,073.0	0.00	0.00	0.00
14,800.0	89.85	179.67	12,272.4	-3,147.5	-553.5	3,172.8	0.00	0.00	0.00
14,900.0	89.85	179.67	12,272.7	-3,247.5	-552.9	3,272.7	0.00	0.00	0.00
15,000.0	89.85	179.67	12,272.9	-3,347.5	-552.4	3,372.5	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #732H
Company:	Midland	TVD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Site:	Modelo 3 Fed Com	North Reference:	Grid
Well:	#732H	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)
15,100.0	89.85	179.67	12,273.2	-3,447.5	-551.8	3,472.3	0.00	0.00	0.00
15,200.0	89.85	179.67	12,273.4	-3,547.5	-551.2	3,572.1	0.00	0.00	0.00
15,300.0	89.85	179.67	12,273.7	-3,647.5	-550.6	3,671.9	0.00	0.00	0.00
15,400.0	89.85	179.67	12,274.0	-3,747.5	-550.1	3,771.8	0.00	0.00	0.00
15,500.0	89.85	179.67	12,274.2	-3,847.5	-549.5	3,871.6	0.00	0.00	0.00
15,600.0	89.85	179.67	12,274.5	-3,947.5	-548.9	3,971.4	0.00	0.00	0.00
15,700.0	89.85	179.67	12,274.7	-4,047.5	-548.4	4,071.2	0.00	0.00	0.00
15,800.0	89.85	179.67	12,275.0	-4,147.5	-547.8	4,171.0	0.00	0.00	0.00
15,900.0	89.85	179.67	12,275.2	-4,247.5	-547.2	4,270.9	0.00	0.00	0.00
16,000.0	89.85	179.67	12,275.5	-4,347.5	-546.6	4,370.7	0.00	0.00	0.00
16,100.0	89.85	179.67	12,275.7	-4,447.5	-546.1	4,470.5	0.00	0.00	0.00
16,200.0	89.85	179.67	12,276.0	-4,547.5	-545.5	4,570.3	0.00	0.00	0.00
16,300.0	89.85	179.67	12,276.3	-4,647.5	-544.9	4,670.2	0.00	0.00	0.00
16,400.0	89.85	179.67	12,276.5	-4,747.5	-544.3	4,770.0	0.00	0.00	0.00
16,500.0	89.85	179.67	12,276.8	-4,847.5	-543.8	4,869.8	0.00	0.00	0.00
16,588.8	89.85	179.67	12,277.0	-4,936.3	-543.3	4,958.4	0.00	0.00	0.00
BOW									
16,600.0	89.85	179.67	12,277.0	-4,947.5	-543.2	4,969.6	0.00	0.00	0.00
16,700.0	89.85	179.67	12,277.3	-5,047.5	-542.6	5,069.4	0.00	0.00	0.00
16,800.0	89.85	179.67	12,277.5	-5,147.5	-542.0	5,169.3	0.00	0.00	0.00
16,900.0	89.85	179.67	12,277.8	-5,247.5	-541.5	5,269.1	0.00	0.00	0.00
17,000.0	89.85	179.67	12,278.1	-5,347.5	-540.9	5,368.9	0.00	0.00	0.00
17,100.0	89.85	179.67	12,278.3	-5,447.5	-540.3	5,468.7	0.00	0.00	0.00
17,200.0	89.85	179.67	12,278.6	-5,547.4	-539.7	5,568.5	0.00	0.00	0.00
17,300.0	89.85	179.67	12,278.8	-5,647.4	-539.2	5,668.4	0.00	0.00	0.00
17,326.2	89.85	179.67	12,278.9	-5,673.6	-539.0	5,694.5	0.00	0.00	0.00
Fed Perf(Modelo 3 Fed Com #732H)									
17,329.6	89.85	179.67	12,278.9	-5,677.0	-539.0	5,697.9	0.00	0.00	0.00
FPP (MODELO 3 FED COM #732H)									
17,400.0	89.85	179.67	12,279.1	-5,747.4	-538.6	5,768.2	0.00	0.00	0.00
17,500.0	89.85	179.67	12,279.3	-5,847.4	-538.0	5,868.0	0.00	0.00	0.00
17,600.0	89.85	179.67	12,279.6	-5,947.4	-537.4	5,967.8	0.00	0.00	0.00
17,700.0	89.85	179.67	12,279.9	-6,047.4	-536.9	6,067.6	0.00	0.00	0.00
17,757.4	89.85	179.67	12,280.0	-6,104.9	-536.5	6,125.0	0.00	0.00	0.00
Wolfcamp U1									
17,800.0	89.85	179.67	12,280.1	-6,147.4	-536.3	6,167.5	0.00	0.00	0.00
17,900.0	89.85	179.67	12,280.4	-6,247.4	-535.7	6,267.3	0.00	0.00	0.00
18,000.0	89.85	179.67	12,280.6	-6,347.4	-535.2	6,367.1	0.00	0.00	0.00
18,100.0	89.85	179.67	12,280.9	-6,447.4	-534.6	6,466.9	0.00	0.00	0.00
18,200.0	89.85	179.67	12,281.1	-6,547.4	-534.0	6,566.7	0.00	0.00	0.00
18,300.0	89.85	179.67	12,281.4	-6,647.4	-533.4	6,666.6	0.00	0.00	0.00
18,400.0	89.85	179.67	12,281.7	-6,747.4	-532.9	6,766.4	0.00	0.00	0.00
18,500.0	89.85	179.67	12,281.9	-6,847.4	-532.3	6,866.2	0.00	0.00	0.00
18,600.0	89.85	179.67	12,282.2	-6,947.4	-531.7	6,966.0	0.00	0.00	0.00
18,700.0	89.85	179.67	12,282.4	-7,047.4	-531.2	7,065.8	0.00	0.00	0.00
18,800.0	89.85	179.67	12,282.7	-7,147.4	-530.6	7,165.7	0.00	0.00	0.00
18,900.0	89.85	179.67	12,283.0	-7,247.4	-530.0	7,265.5	0.00	0.00	0.00
19,000.0	89.85	179.67	12,283.2	-7,347.4	-529.4	7,365.3	0.00	0.00	0.00
19,100.0	89.85	179.67	12,283.5	-7,447.4	-528.9	7,465.1	0.00	0.00	0.00
19,200.0	89.85	179.67	12,283.7	-7,547.4	-528.3	7,564.9	0.00	0.00	0.00
19,300.0	89.85	179.67	12,284.0	-7,647.4	-527.7	7,664.8	0.00	0.00	0.00
19,400.0	89.85	179.67	12,284.3	-7,747.4	-527.2	7,764.6	0.00	0.00	0.00
19,500.0	89.85	179.67	12,284.5	-7,847.4	-526.6	7,864.4	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #732H
Company:	Midland	TVD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Site:	Modelo 3 Fed Com	North Reference:	Grid
Well:	#732H	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)
19,600.0	89.85	179.67	12,284.8	-7,947.4	-526.0	7,964.2	0.00	0.00	0.00
19,700.0	89.85	179.67	12,285.1	-8,047.4	-525.5	8,064.0	0.00	0.00	0.00
19,800.0	89.85	179.67	12,285.3	-8,147.4	-524.9	8,163.9	0.00	0.00	0.00
19,900.0	89.85	179.67	12,285.6	-8,247.4	-524.3	8,263.7	0.00	0.00	0.00
20,000.0	89.85	179.67	12,285.8	-8,347.4	-523.7	8,363.5	0.00	0.00	0.00
20,100.0	89.85	179.67	12,286.1	-8,447.4	-523.2	8,463.3	0.00	0.00	0.00
20,200.0	89.85	179.67	12,286.4	-8,547.4	-522.6	8,563.1	0.00	0.00	0.00
20,300.0	89.85	179.67	12,286.6	-8,647.4	-522.0	8,663.0	0.00	0.00	0.00
20,400.0	89.85	179.67	12,286.9	-8,747.4	-521.5	8,762.8	0.00	0.00	0.00
20,500.0	89.85	179.67	12,287.2	-8,847.4	-520.9	8,862.6	0.00	0.00	0.00
20,600.0	89.85	179.67	12,287.4	-8,947.4	-520.3	8,962.4	0.00	0.00	0.00
20,700.0	89.85	179.67	12,287.7	-9,047.4	-519.8	9,062.3	0.00	0.00	0.00
20,800.0	89.85	179.68	12,288.0	-9,147.4	-519.2	9,162.1	0.00	0.00	0.00
20,900.0	89.85	179.68	12,288.2	-9,247.4	-518.6	9,261.9	0.00	0.00	0.00
21,000.0	89.85	179.68	12,288.5	-9,347.4	-518.1	9,361.7	0.00	0.00	0.00
21,100.0	89.85	179.68	12,288.8	-9,447.4	-517.5	9,461.5	0.00	0.00	0.00
21,188.6	89.85	179.68	12,289.0	-9,536.0	-517.0	9,550.0	0.00	0.00	0.00
PBHL(Modelo 3 Fed Com #732H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
KOP(Modelo 3 Fed Corr - plan hits target center - Rectangle (sides W50.0 H60.0 D0.0)	0.00	179.67	11,694.0	-449.0	-569.0	451,378.00	746,437.00	32.2391728°N	103.6699752°W
FTP(Modelo 3 Fed Com - plan misses target center by 202.8usft at 12250.0usft MD (12116.8 TVD, -635.3 N, -567.9 E) - Point	0.00	0.00	12,267.0	-499.0	-569.0	451,328.00	746,437.00	32.2390354°N	103.6699762°W
FPP (MODELO 3 FED C - plan hits target center - Point	0.00	0.00	12,278.9	-5,677.0	-539.0	446,150.00	746,467.00	32.2248020°N	103.6699826°W
PBHL(Modelo 3 Fed Cor - plan hits target center - Rectangle (sides W60.0 H0.0 D9,025.0)	90.02	179.67	12,289.0	-9,536.0	-517.0	442,291.00	746,489.00	32.2141943°N	103.6699885°W



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #732H
Company:	Midland	TVD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3678.0usft (H&P 389)
Site:	Modelo 3 Fed Com	North Reference:	Grid
Well:	#732H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,133.0	1,133.0	Rustler				
1,205.0	1,205.0	Tamarisk Anhydrite				
1,438.0	1,438.0	Top of Salt				
4,723.5	4,644.0	Base of Salt				
4,949.4	4,869.0	Lamar				
4,973.4	4,893.0	Bell Canyon				
5,837.4	5,757.0	Cherry Canyon				
7,066.4	6,986.0	Brushy Porosity				
7,129.4	7,049.0	Brushy Canyon				
8,829.4	8,749.0	Bone Springs Lime				
8,929.4	8,849.0	Leonard A Shale				
9,328.4	9,248.0	Leonard B Shale				
9,936.4	9,856.0	First Bone Springs Sand				
10,157.4	10,077.0	Second Bone Springs Shale				
10,520.4	10,440.0	Second Bone Springs Sand				
11,134.4	11,054.0	Third Bone Springs Carbonate				
11,844.6	11,764.0	Third Bone Springs Sand				
12,134.7	12,031.0	Third Bone Springs Flooding Surface				
12,207.5	12,087.0	Wolfcamp				
12,300.1	12,149.0	Wolfcamp Clastics X				
12,552.3	12,254.0	Wolfcamp Clastics Y				
12,567.4	12,257.0	TOW				
16,588.8	12,277.0	BOW				
17,757.4	12,280.0	Wolfcamp U1				

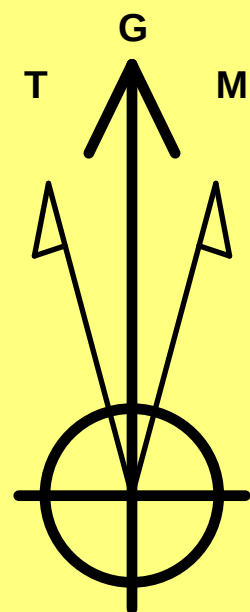


Lea County, NM (NAD 83 NME)

Modelo 3 Fed Com #732H

H&P 389

Plan #1



Azimuths to Grid North
True North: -0.35°
Magnetic North: 6.13°

Magnetic Field
Strength: 47394.7nT
Dip Angle: 59.87°
Date: 5/23/2022
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.13°
To convert a Magnetic Direction to a True Direction, Add 6.48° East
To convert a True Direction to a Grid Direction, Subtract 0.35°

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: #732H

KB = 25' @ 3678.0usft (H&P 389) 3653.0
Northing 451827.00 Easting 747006.00 Latitude 32.2403973°N Longitude 103.6681260°W

SECTION DETAILS

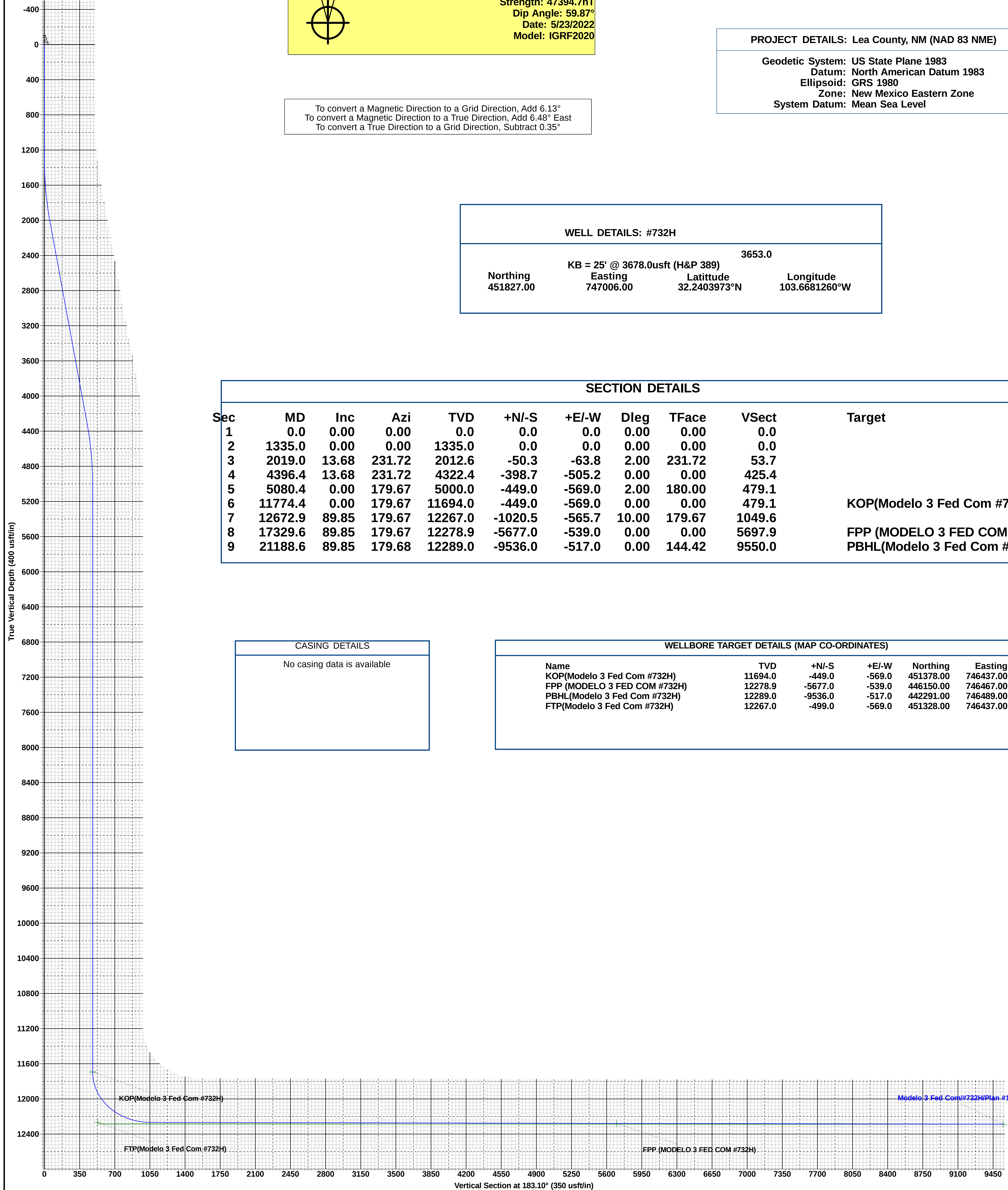
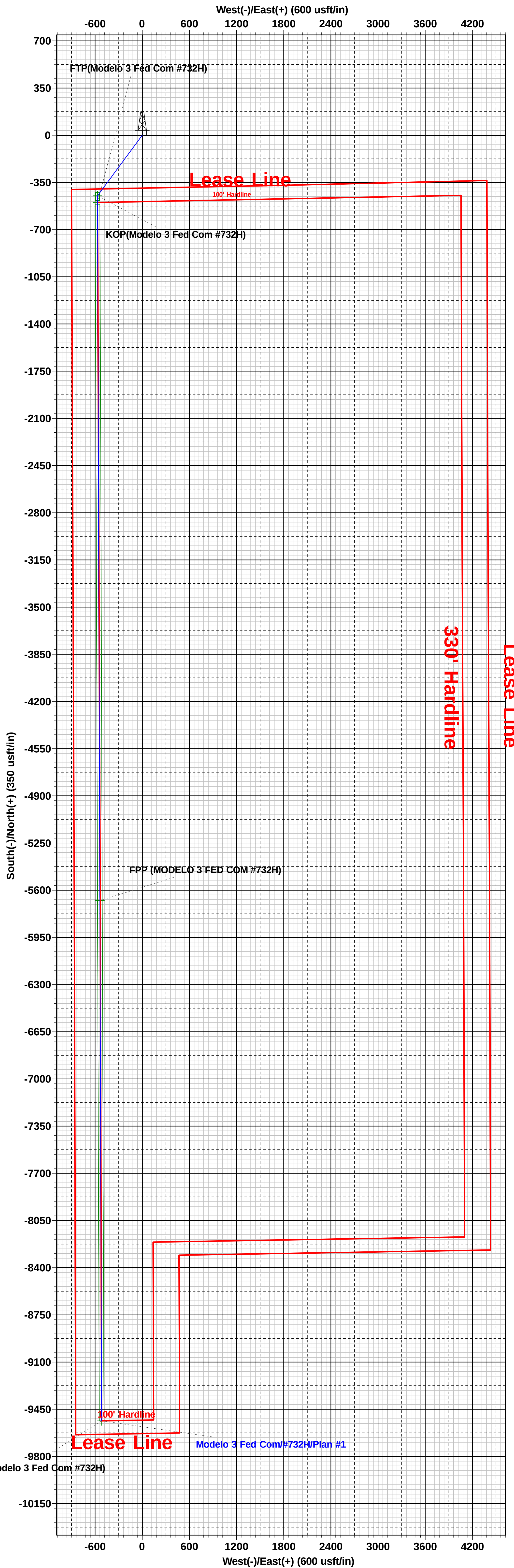
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1335.0	0.00	0.00	1335.0	0.0	0.0	0.00	0.00	0.0	
3	2019.0	13.68	231.72	2012.6	-50.3	-63.8	2.00	231.72	53.7	
4	4396.4	13.68	231.72	4322.4	-398.7	-505.2	0.00	0.00	425.4	
5	5080.4	0.00	179.67	5000.0	-449.0	-569.0	2.00	180.00	479.1	
6	11774.4	0.00	179.67	11694.0	-449.0	-569.0	0.00	0.00	479.1	KOP(Modelo 3 Fed Com #732H)
7	12672.9	89.85	179.67	12267.0	-1020.5	-565.7	10.00	179.67	1049.6	
8	17329.6	89.85	179.67	12278.9	-5677.0	-539.0	0.00	0.00	5697.9	FPP (MODELO 3 FED COM #732H)
9	21188.6	89.85	179.68	12289.0	-9536.0	-517.0	0.00	144.42	9550.0	PBHL(Modelo 3 Fed Com #732H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Modelo 3 Fed Com #732H)	11694.0	-449.0	-569.0	451378.00	746437.00
FPP (MODELO 3 FED COM #732H)	12278.9	-5677.0	-539.0	446150.00	746467.00
PBHL(Modelo 3 Fed Com #732H)	12289.0	-9536.0	-517.0	442291.00	746489.00
FTP(Modelo 3 Fed Com #732H)	12267.0	-499.0	-569.0	451328.00	746437.00



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1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
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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 150861

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 150861
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	10/14/2022