Received by OCD: 6/26/2025 10:59:41 AM

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

06/27/2025

Well Name: MONGO 25 FED COM

Well Location: T24S / R29E / SEC 30 / LOT 02 / 32.1895114 / -104.0315098

County or Parish/State: EDDY / NM

Well Number: 802H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM107373

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: 3R OPERATING LLC

Notice of Intent

Sundry ID: 2851456

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/06/2025

Time Sundry Submitted: 03:44

Date proposed operation will begin: 05/05/2025

Procedure Description: SUNDRY TO REVISE: , WELL NAME ; SHL, FTP, BHL; CASING/DRILLING PLAN, ACREAGE DEDICATION Well Name Change from Mongo 25 Fed Com 802H (APD ID 10400102194) to Mongo 25 Fed Com 752H SHL Change: From 2275' FNL & 155' FWL to 2290' FNL & 160 FWL' FTP Change: From 2000' FNL & 330' FEL to 2290' FNL & 330' FEL BHL Change- From 2000' FNL & 330' FWL to 2290' FNL & 330' FWL Acreage Dedication Change: 160 acres dedicated - (details in C-102 attached) - NSL pending with NMOCD Intermediate/Production Casing changes (details in attached drilling plan) Intermediate/Production casing cement changes (details in attached drilling plan)

NOI Attachments

Procedure Description

APD_Sundry_Packet_Mongo_25_Fed_Com_752H_050625_20250623143502.pdf

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Released to Imaging: 6/27/2025 10:16:53 AM

Well Name: MONGO 25 FED COM

Well Location: T24S / R29E / SEC 30 / LOT 02 / 32.1895114 / -104.0315098

County or Parish/State: EDDY / NM

Well Number: 802H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM107373

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: 3R OPERATING LLC

Conditions of Approval

Additional

Mongo_25_Fed_Com_752H_COA_6_24_2025_20250624163833.pdf

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: AUSTIN TRAMELL

Signed on: JUN 23, 2025 02:36 PM

Name: 3R OPERATING LLC

Title: Director Environmental and Regulatory

Street Address: PO BOX 692229

City: HOUSTON

State: TX

Phone: (832) 810-1037

Email address: ATRAMELL@3ROPERATING.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: 06/26/2025

Signature: Chris Walls

Released to Imaging: 6/27/2025 10:16:53 AM

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Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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*

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

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

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

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 recomplete 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 OFICE 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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 02 / 2275 FNL / 155 FWL / TWSP: 24S / RANGE: 29E / SECTION: 30 / LAT: 32.1895114 / LONG: -104.0315098 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2000 FNL / 330 FEL / TWSP: 24S / RANGE: 28E / SECTION: 25 / LAT: 32.190271 / LONG: -104.0330873 (TVD: 10600 feet, MD: 10935 feet)

PPP: SWNE / 2000 FNL / 1376 FEL / TWSP: 24S / RANGE: 28E / SECTION: 25 / LAT: 32.1902842 / LONG: -104.0364689 (TVD: 10600 feet, MD: 11981 feet)

BHL: SWNW / 2000 FNL / 330 FWL / TWSP: 24S / RANGE: 28E / SECTION: 25 / LAT: 32.1903297 / LONG: -104.0483683 (TVD: 10600 feet, MD: 15662 feet)

CONFIDENTIAL

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**3R OPERATING LLC**
WELL NAME & NO.:	**MONGO 25 FED COM #752H**
LOCATION:	**30 – 24S – 29E (2290 FNL, 160 FWL)**
COUNTY:	Eddy County, New Mexico

COA

H_2S	◉ No		○ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
	Choose an option (including blank option.)			
Cave / Karst	○ Low	○ Medium	◉ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☑ COM	☐ Unit
Waste Prev.	○ Self-Certification	◉ Waste Min. Plan	○ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose ☐ Four-String	☐ Casing Clearance ☐ Offline Cementing	☐ Pilot Hole ☑ Fluid-Filled	☐ Break Testing

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8 inch** surface casing shall be set at approximately **350 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **<u>8 hours</u>** or **<u>500 pounds compressive strength</u>**, whichever is greater. (This is to include the lead cement)

c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **9-5/8 inch** intermediate casing shall be set at approximately **9,900 feet** is:

   - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

❖ **In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.**

3. The minimum required fill of cement behind the **5-1/2 inch** production casing shall be set at approximately **15,007 feet** is:

   - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.

   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
   e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
    b. When the operator proposes to set surface casing with Spudder Rig
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive

strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000-psi chart for a 5M BOP/BOPE and on a 15000-psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two-hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

YJ (6/24/2025)

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☐ Initial Submittal ☑ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-015-56710	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP (GAS)
Property Code	Property Name MONGO 25 FED COM	Well Number 752H
OGRID No. 331569	Operator Name 3R OPERATING, LLC	Ground Level Elevation 2925.0
Surface Owner: ☐State ☐Fee ☐Tribal ☑Federal	Mineral Owner: ☐State ☐Fee ☐Tribal ☑Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	30	24 S	29 E	2	2290 NORTH	160 WEST	32.1894702°N	104.0314931°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	25	24 S	28 E		2290 NORTH	330 WEST	32.1895328°N	104.0483706°W	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
160	Infill	30-015-56623	Y	C
Order Numbers. NSP pending with NMOCD			Well setbacks are under Common Ownership: ☑Yes ☐No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	25	24 S	28 E		2290 NORTH	230 EAST	32.1894732°N	104.0327536°W	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	25	24 S	28 E		2290 NORTH	330 EAST	32.1894739°N	104.0330768°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	25	24 S	28 E		2290 NORTH	330 WEST	32.1895328°N	104.0483706°W	EDDY

Unitized Area or Area of Uniform Interest Y	Spacing Unit Type ☑Horizontal ☐Vertical	Ground Floor Elevation: N/A

OPERATOR CERTIFICATIONS

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Austin Tramell — 05/05/2025

Signature — Date

Austin Tramell

Printed Name

atramell@3roperating.com

Email Address

SURVEYOR CERTIFICATIONS

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

FILIMON F. JARAMILLO NEW MEXICO 12797 REGISTERED PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

FILIMON F. JARAMILLO

CertificateNumber	Dateof Survey
PLS 12797	MARCH 31, 2025 SURVEY NO. 10332A

Note: 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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

MONGO 25 FED COM 752H
EL. = 2925.0

LEGEND
SECTION LINE
QUARTER LINE
LEASE LINE
WELL PATH

GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
2290' FNL, 160' FWL
N.=432794.80
E.=634711.65
LAT.=32.1894702°N
LONG.=104.0314931°W

LAST TAKE POINT
2290' FNL, 330' FWL
N.=432803.31
E.=629490.50
LAT.=32.1895328°N
LONG.=104.0483706°W

PPP3
2290' FNL, 1337' FWL
N.=432801.49
E.=630497.02
LAT.=32.1895204°N
LONG.=104.0451170°W

KICK OFF POINT
2290' FNL, 230' FEL
N.=432794.79
E.=634321.70
LAT.=32.1894732°N
LONG.=104.0327536°W

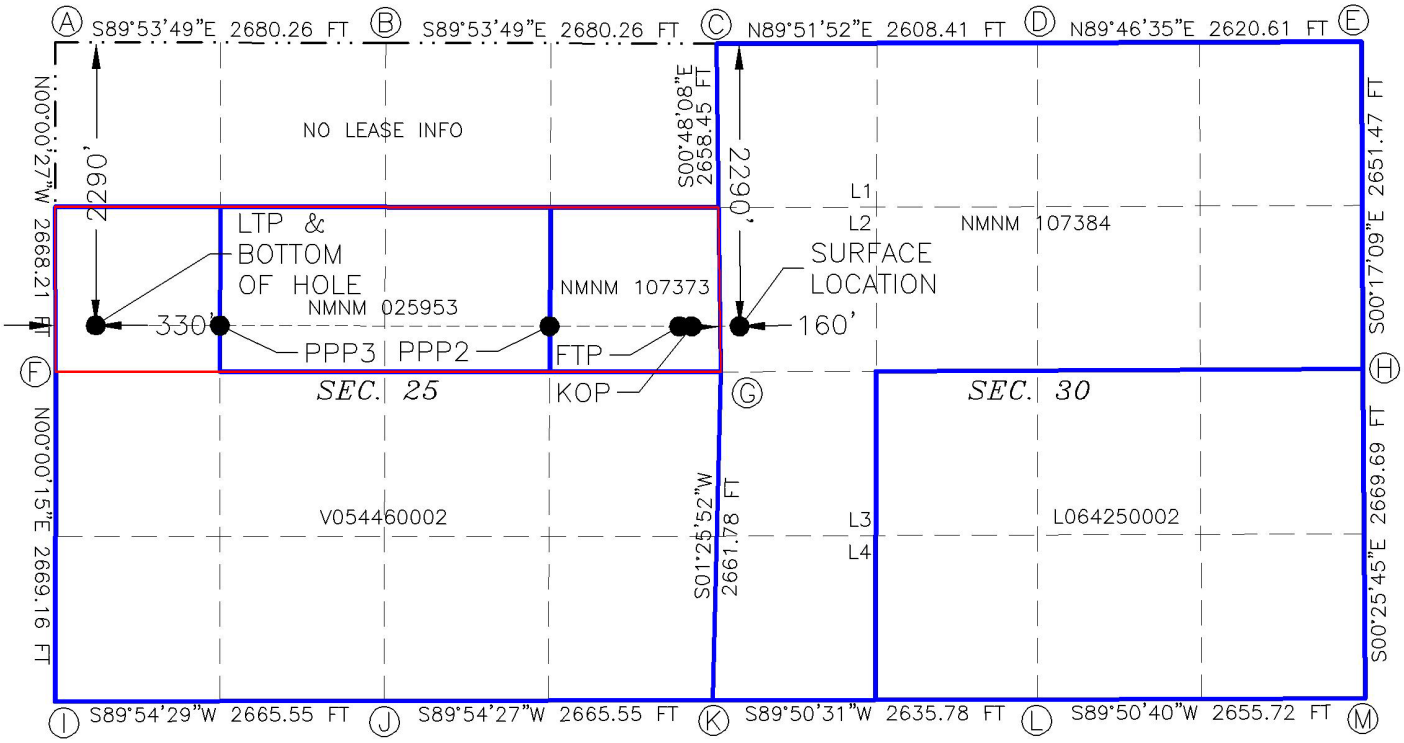
BOTTOM OF HOLE
2290' FNL, 330' FWL
N.=432803.31
E.=629490.50
LAT.=32.1895328°N
LONG.=104.0483706°W

FIRST TAKE POINT
2290' FNL, 330' FEL
N.=432794.78
E.=634221.71
LAT.=32.1894739°N
LONG.=104.0330768°W

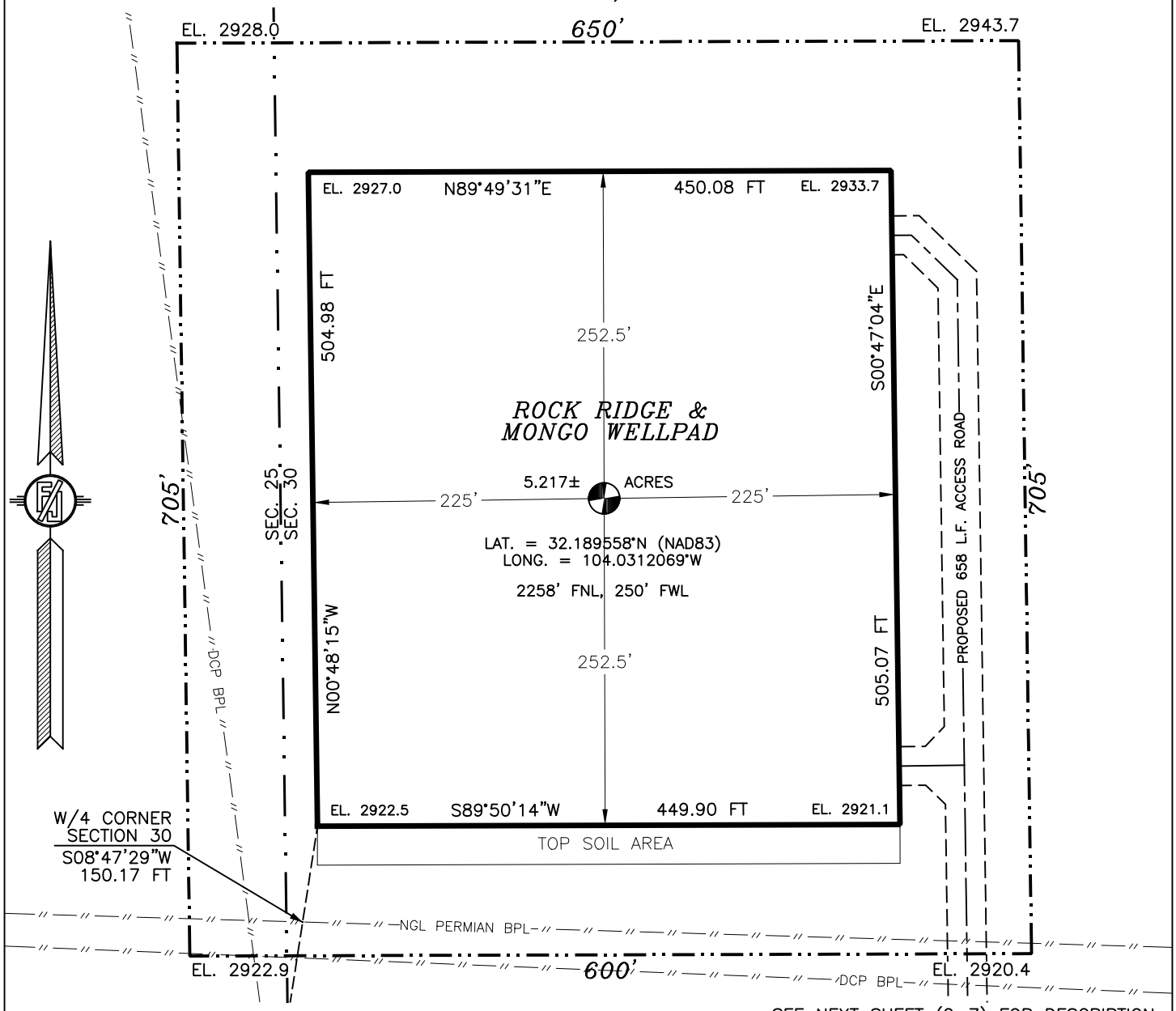
PPP2
2290' FNL, 1380' FEL
N.=432796.68
E.=633170.36
LAT.=32.1894872°N
LONG.=104.0364753°W

CORNER COORDINATES TABLE
NAD 83 NMSP EAST

A	N.=435093.40	E.=629160.27
B	N.=435088.58	E.=631839.95
C	N.=435083.75	E.=634519.62
D	N.=435091.27	E.=637126.06
E	N.=435100.14	E.=639747.47
F	N.=432425.77	E.=629160.62
G	N.=432426.14	E.=634556.83
H	N.=432449.28	E.=639760.68
I	N.=429757.19	E.=629160.43
J	N.=429761.47	E.=631825.40
K	N.=429765.77	E.=634490.37
L	N.=429773.04	E.=637125.56
M	N.=429780.25	E.=639780.68



ROCK RIDGE & MONGO WELLPAD
3R OPERATING, LLC
IN THE SW/4 LOT 2 OF
SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 31, 2025



012 60 120 240
SCALE 1" = 120'

SEE NEXT SHEET (2–7) FOR DESCRIPTION

GENERAL NOTES

1.) THE INTENT OF THIS SURVEY IS TO ACQUIRE A BUSINESS LEASE FOR THE PURPOSE OF BUILDING A WELL PAD

2.) BASIS OF BEARING IS NEW MEXICO STATE PLANE EAST ZONE MODIFIED TO THE SURFACE (NAD83), COORDINATES ARE NAD 83, ELEVATIONS ARE NAVD 88

DRIVING DIRECTIONS: FROM THE INTERSECTION OF HIGHWAY 285 & CO. RD. 721 (PULLEY), GO EAST ON CO. RD. 721 APPROX. 1.17 MILES JUST PAST A CATTLE GUARD WHERE CO. RD. STARTS TO TURN NORTH, CONTINUE EAST AND IMMEDIATELY SOUTH ON A CALICHE ROAD, GO SOUTH AND EAST APPROX. 1 MILE TO A "Y" INTERSECTION, TAKE LEFT FORK AND CONTINUE EAST APPROX. 0.1 MILE TO A ROAD SURVEY ON LEFT (NORTH), FOLLOW ROAD SURVEY NORTH AND WEST APPROX. 266' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 31 DAY OF MARCH 2025

FILIMON F. JARAMILLO NEW MEXICO 12797 PROFESSIONAL SURVEYOR

FILIMON F. JARAMILLO PLS 12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
(575) 234-3327

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

SHEET: 1–7

SURVEY NO. 10351A

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

ROCK RIDGE & MONGO WELLPAD
3R OPERATING, LLC
IN THE SW/4 LOT 2 OF
SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 31, 2025

DESCRIPTION

A CERTAIN PIECE OR PARCEL OF LAND AND REAL ESTATE LYING IN BUREAU OF LAND MANAGEMENT LAND IN THE SW/4 LOT 2 OF SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

BEGINNING AT THE SOUTHWEST CORNER OF THE PARCEL, WHENCE THE WEST QUARTER CORNER OF SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S08°47'29"W, A DISTANCE OF 150.17 FEET;
THENCE N00°48'15"W A DISTANCE OF 504.98 FEET TO THE NORTHWEST CORNER OF THE PARCEL;
THENCE N89°49'31"E A DISTANCE OF 450.08 FEET TO TO THE NORTHEAST CORNER OF THE PARCEL;
THENCE S00°47'04"E A DISTANCE OF 505.07 FEET TO THE SOUTHEAST CORNER OF THE PARCEL,
THENCE S89°50'14"W A DISTANCE OF 449.90 FEET TO THE SOUTHWEST CORNER OF THE PARCEL, THE POINT OF BEGINNING;
CONTAINING 5.217 ACRES MORE OR LESS.

GENERAL NOTES

1.) THE INTENT OF THIS SURVEY IS TO ACQUIRE A BUSINESS LEASE FOR THE PURPOSE OF BUILDING A WELL PAD

2.) BASIS OF BEARING IS NEW MEXICO STATE PLANE EAST ZONE MODIFIED TO THE SURFACE (NAD83), COORDINATES ARE NAD 83, ELEVATIONS ARE NAVD 88

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 31 DAY OF MARCH 2025

FILIMON F. JARAMILLO PLS 12797

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

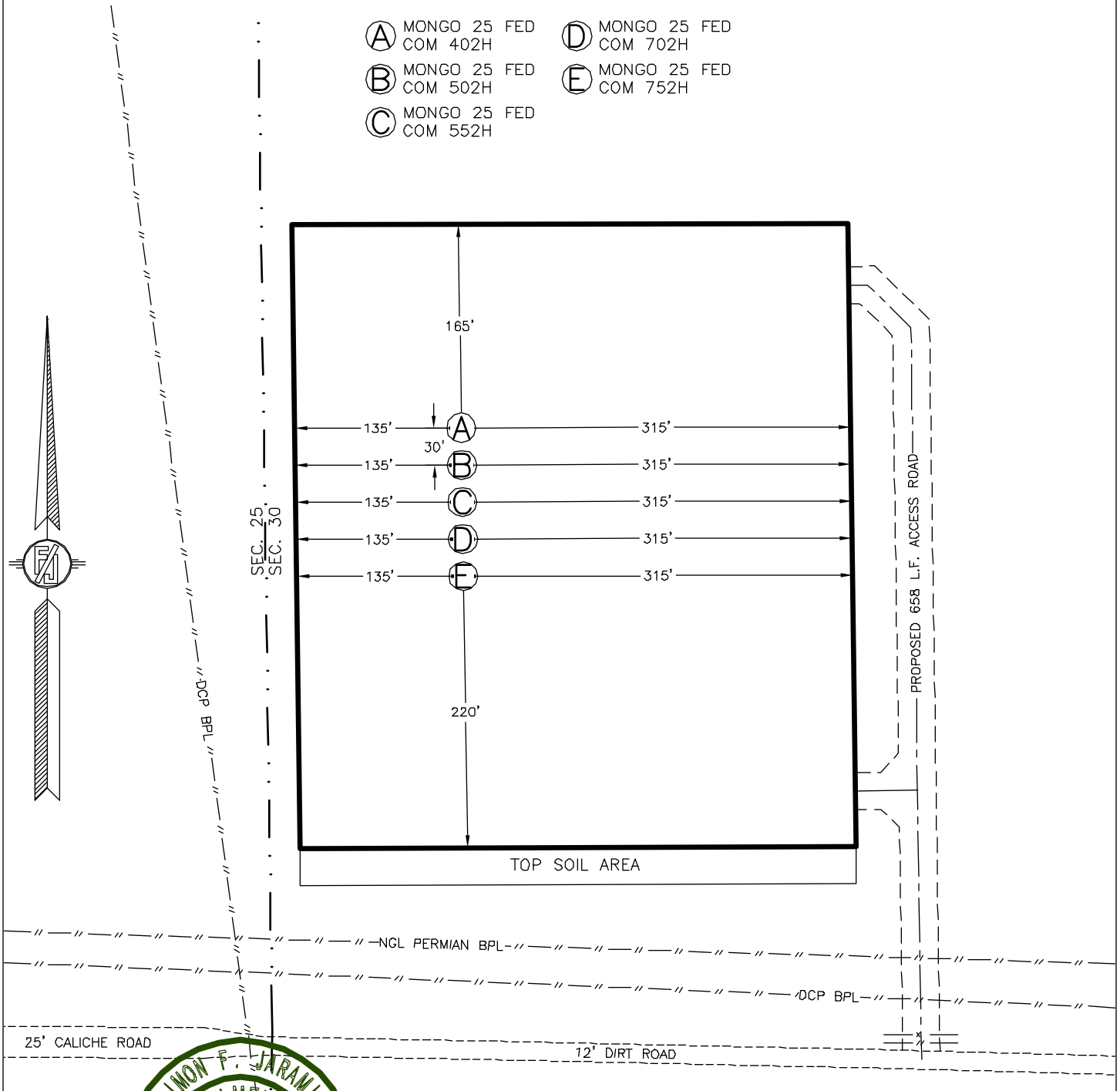
SHEET: 2-7

SURVEY NO. 10351A

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

ROCK RIDGE & MONGO WELLPAD
3R OPERATING, LLC
IN THE SW/4 LOT 2 OF
SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 31, 2025

SITE MAP



I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO PLS 17797

FILIMON F. JARAMILLO NEW MEXICO 17797 REGISTERED PROFESSIONAL SURVEYOR

012 60 120 240
SCALE 1" = 120'

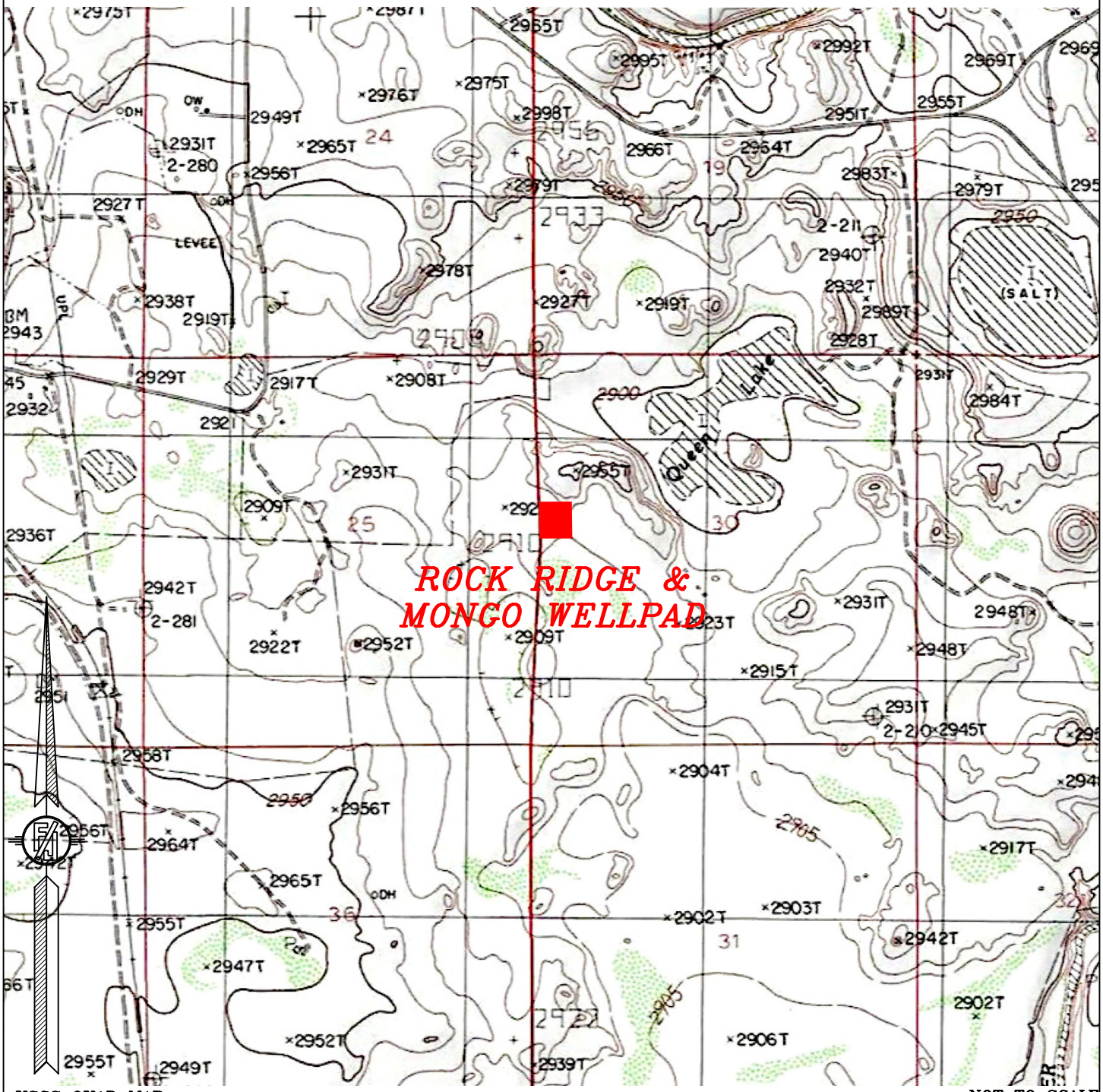
SHEET: 3

SURVEY NO. 10351A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3327 CARLSBAD, NEW MEXICO

ROCK RIDGE & MONGO WELLPAD
3R OPERATING, LLC
IN THE SW/4 LOT 2 OF
SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 31, 2025

LOCATION VERIFICATION MAP



USGS QUAD MAP:
MALAGA

NOT TO SCALE

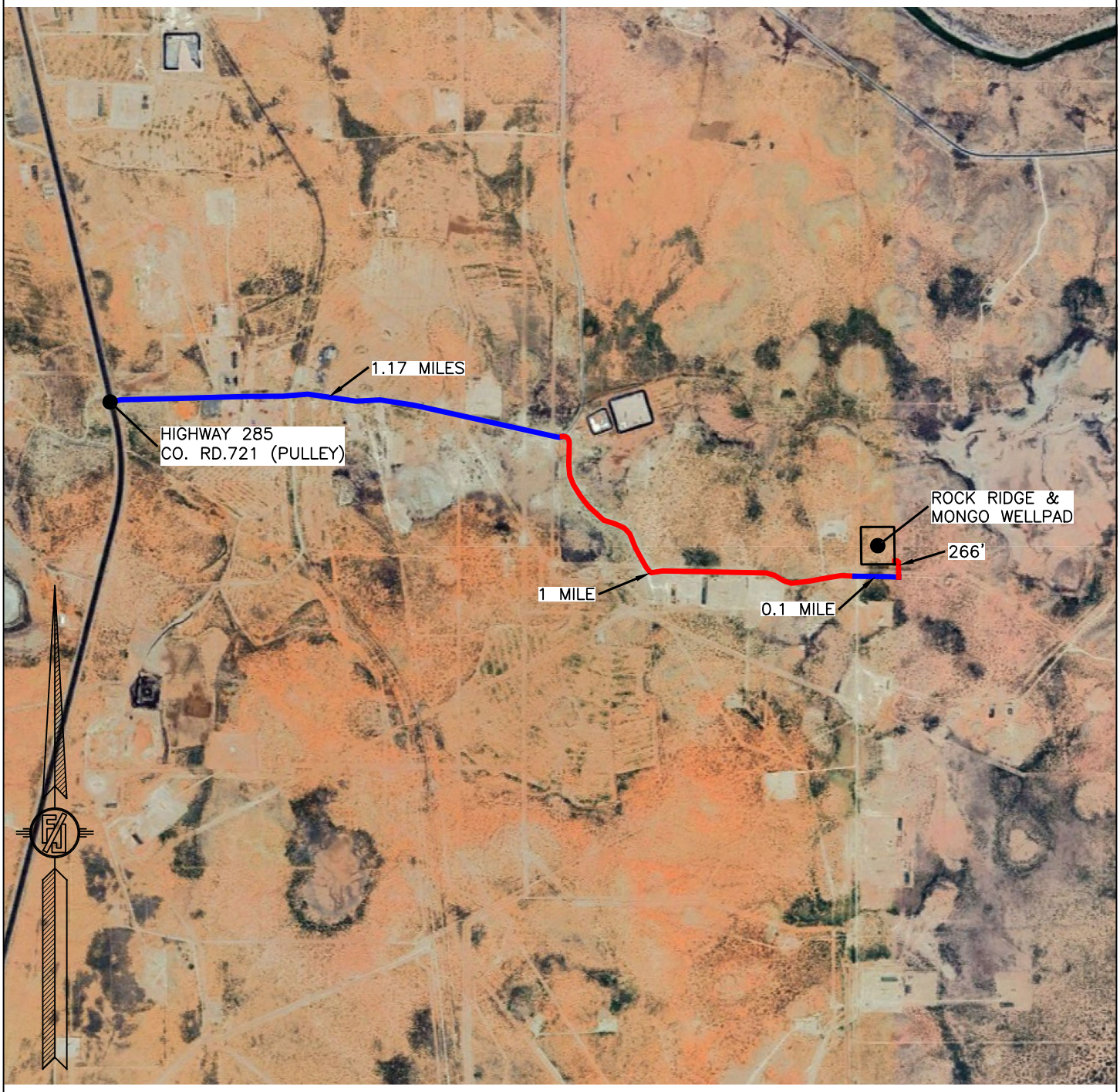
SHEET: 4-7

SURVEY NO. 10351A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3327 CARLSBAD, NEW MEXICO

ROCK RIDGE & MONGO WELLPAD
3R OPERATING, LLC
IN THE SW/4 LOT 2 OF
SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 31, 2025

AERIAL ACCESS ROUTE MAP



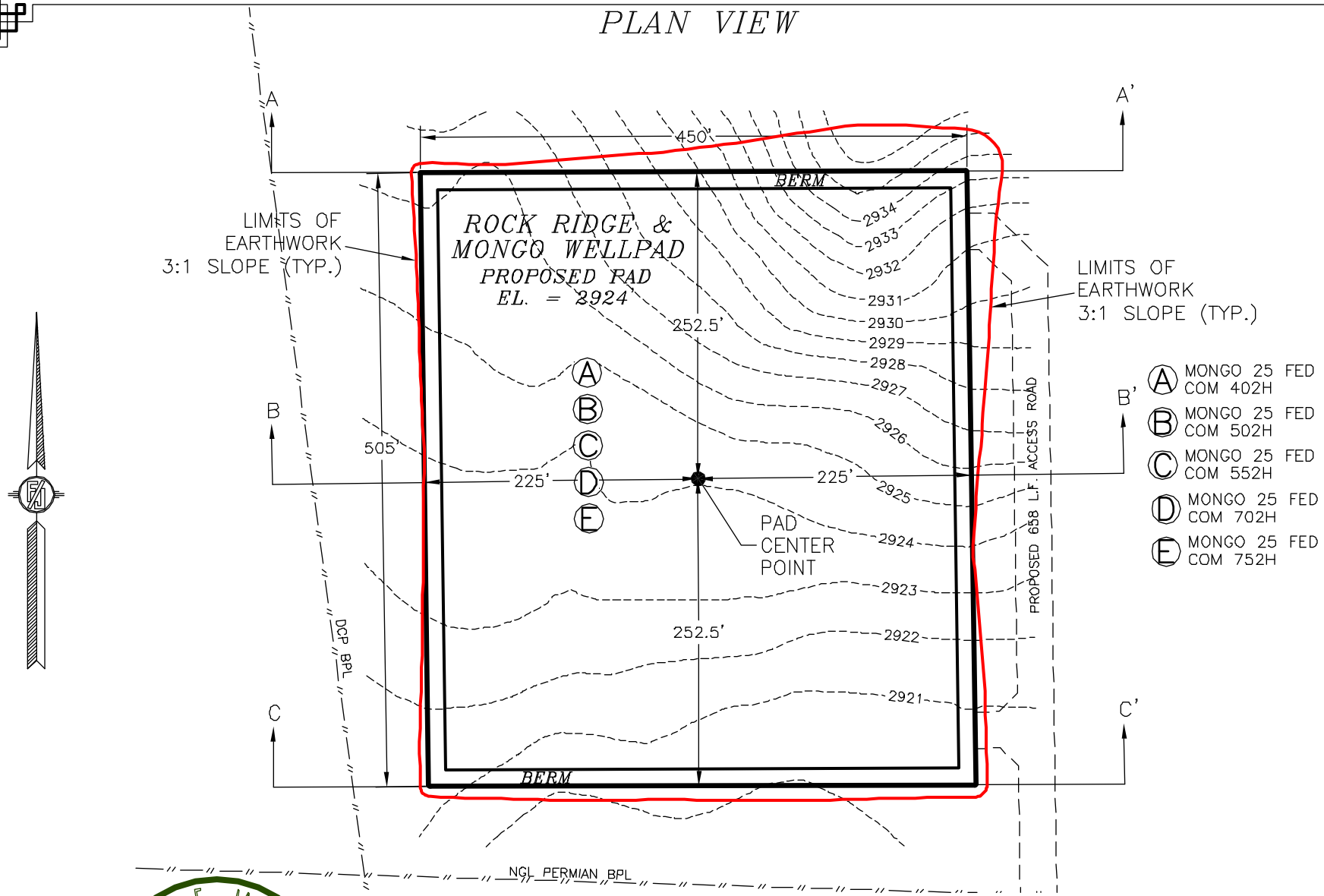
NOT TO SCALE
AERIAL PHOTO: GOOGLE EARTH

DRIVING DIRECTIONS: FROM THE INTERSECTION OF HIGHWAY 285 & CO. RD. 721 (PULLEY), GO EAST ON CO. RD. 721 APPROX. 1.17 MILES JUST PAST A CATTLE GUARD WHERE CO. RD. STARTS TO TURN NORTH, CONTINUE EAST AND IMMEDIATELY SOUTH ON A CALICHE ROAD, GO SOUTH AND EAST APPROX. 1 MILE TO A "Y" INTERSECTION, TAKE LEFT FORK AND CONTINUE EAST APPROX. 0.1 MILE TO A ROAD SURVEY ON LEFT (NORTH), FOLLOW ROAD SURVEY NORTH AND WEST APPROX. 266' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

SHEET: 5–7 SURVEY NO. 10351A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234–3327 CARLSBAD, NEW MEXICO

PLAN VIEW



I, FILIMON F. JARAMILLO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 12797

FILIMON F. JARAMILLO NO. 12797

3R OPERATING, LLC

PAD ELEVATIONS AND CROSS SECTIONS

FOR ROCK RIDGE & MONGO WELLPAD

SECTION 30, TOWNSHIP 24 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 31, 2025

012 60 120 240
SCALE 1" = 120'

CUT	FILL	NET
15768 CU. YD	7927 CU. YD	7841 CU. YD (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED

SHEET 6-7
SURVEY NO. 10351A

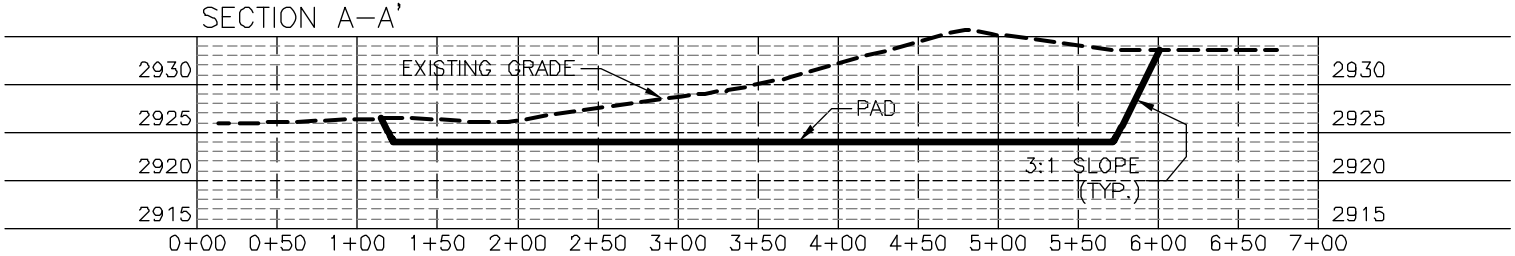
JARAMILLO ARON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3327 CARLSBAD, NEW MEXICO

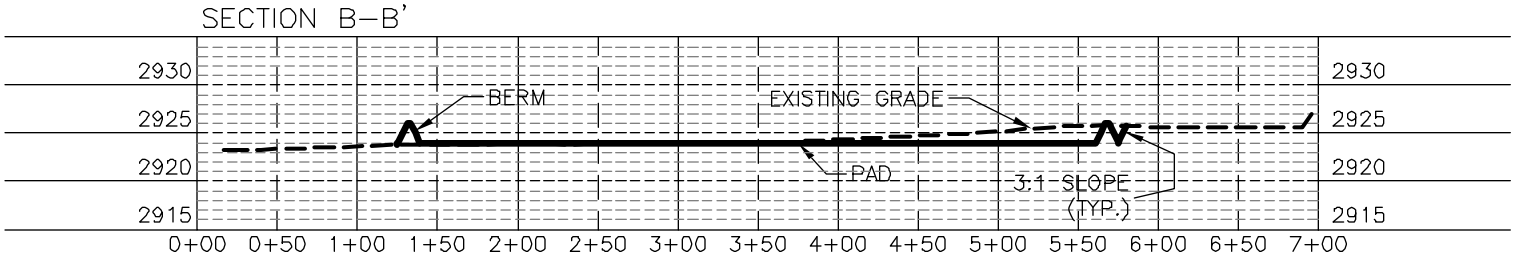
Received by OCD: 6/26/2025 10:59:41 AM

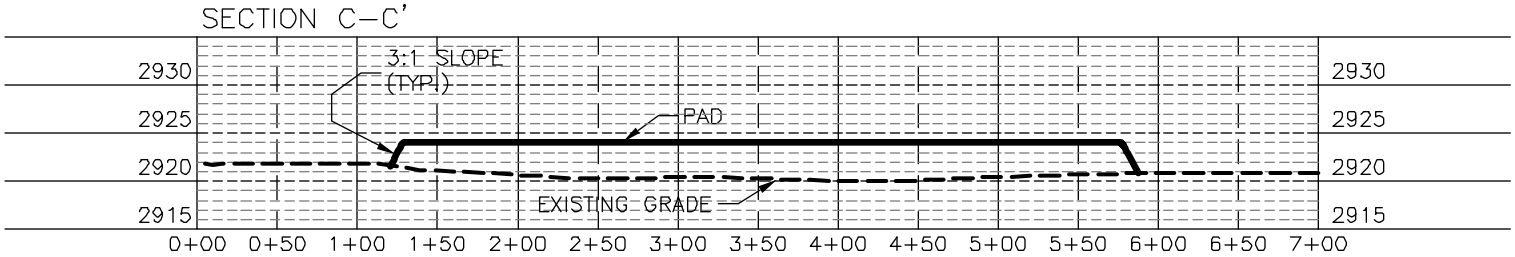
Released to Imaging: 6/27/2025 10:16:53 AM

Page 22 of 56

CROSS–SECTIONS







I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO, P.S. 12797

FILIMON F. JARAMILLO 12797 REGISTERED PROFESSIONAL SURVEYOR

3R OPERATING, LLC
PAD ELEVATIONS AND CROSS SECTIONS
FOR ROCK RIDGE & MONGO WELLPAD
SECTION 30, TOWNSHIP 24 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 31, 2025

012 60 120 240
SCALE 1" = 120' – 1" = 20' VER

CUT	FILL	NET
15768 CU. YD	7927 CU. YD	7841 CU. YD (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED

MIRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3327 *CARLSBAD, NEW MEXICO*

SHEET 7–7
SURVEY NO. 10351A

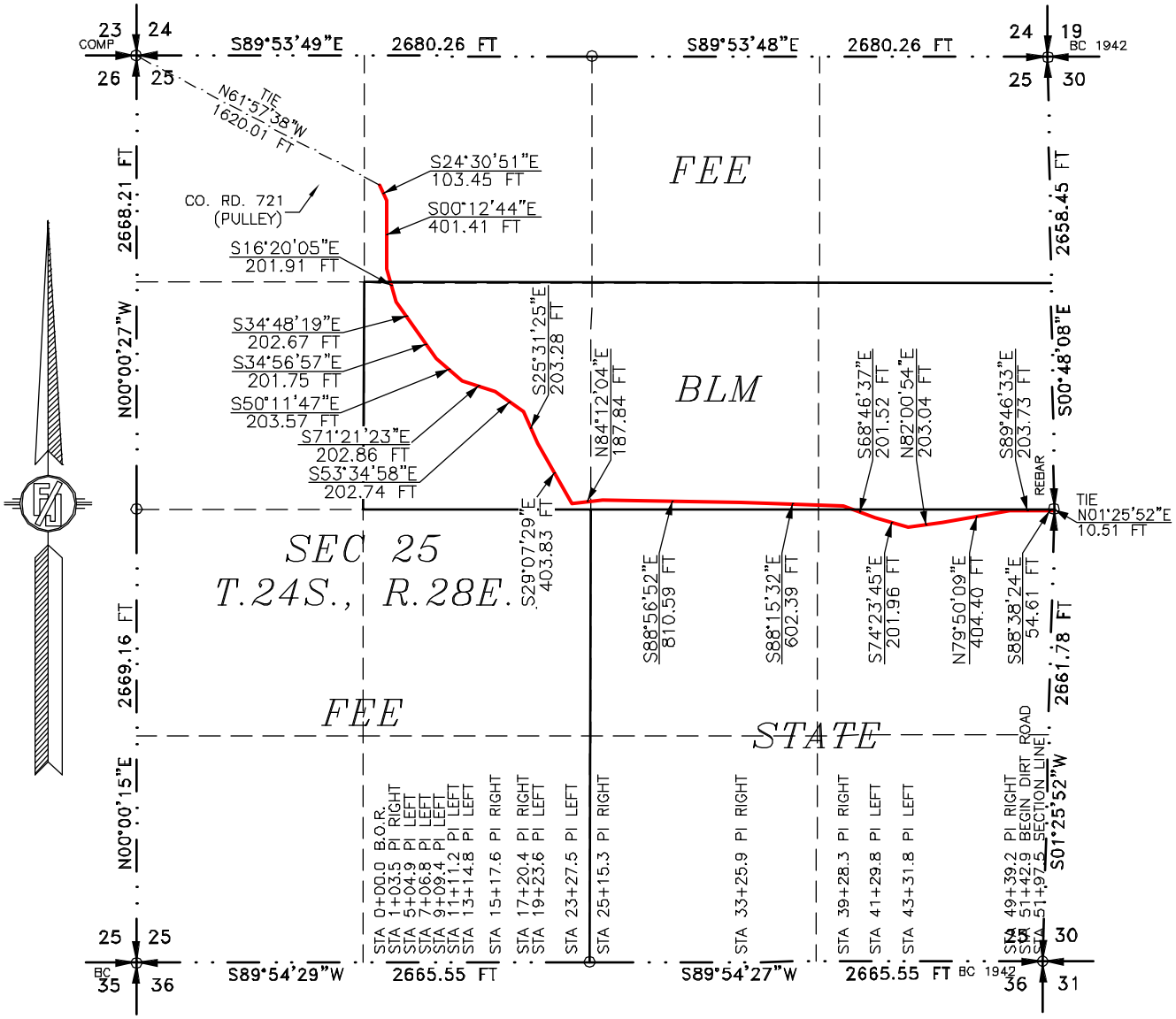
Received by OCD: 6/26/2025 10:59:41 AM
Released to Imaging: 6/27/2025 10:16:53 AM

ACCESS ROAD PLAT

ACCESS ROAD FOR ROCK RIDGE & MONGO WELLPAD

3R OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 25, TOWNSHIP 24 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 31, 2025



SEE NEXT SHEET (2–4) FOR DESCRIPTION

1000 0 1000
Scale: 1" = 1000'

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS _____ DAY OF MARCH 2025

FILIMON F. JARAMILLO NEW MEXICO 12797 REGISTERED PROFESSIONAL SURVEYOR

FILIMON F. JARAMILLO PLS 12797
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
(575) 234-3327

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

SHEET: 1–4

SURVEY NO. 10351A

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FOR ROCK RIDGE & MONGO WELLPAD

3R OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 25, TOWNSHIP 24 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 31, 2025

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING FEE, STATE OF NEW MEXICO AND BUREAU OF LAND MANAGEMENT LAND IN SECTION 25, TOWNSHIP 24 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NE/4 NW/4 OF SAID SECTION 25, TOWNSHIP 24 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 25, TOWNSHIP 24 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N61°57'38"W, A DISTANCE OF 1620.01 FEET;
THENCE S24°30'51"E A DISTANCE OF 103.45 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S00°12'44"E A DISTANCE OF 401.41 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S16°20'05"E A DISTANCE OF 201.91 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S34°48'19"E A DISTANCE OF 202.67 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S34°56'57"E A DISTANCE OF 201.75 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S50°11'47"E A DISTANCE OF 203.57 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S71°21'23"E A DISTANCE OF 202.86 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S53°34'58"E A DISTANCE OF 202.74 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S25°31'25"E A DISTANCE OF 203.28 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S29°07'29"E A DISTANCE OF 403.83 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N84°12'04"E A DISTANCE OF 187.84 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S88°56'52"E A DISTANCE OF 810.59 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S88°15'32"E A DISTANCE OF 602.39 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S68°46'37"E A DISTANCE OF 201.52 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S74°23'45"E A DISTANCE OF 201.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N82°00'54"E A DISTANCE OF 203.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N79°50'09"E A DISTANCE OF 404.40 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°46'33"E A DISTANCE OF 203.73 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S88°38'24"E A DISTANCE OF 54.61 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 25, TOWNSHIP 24 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N01°25'52"E, A DISTANCE OF 10.51 FEET;

SAID STRIP OF LAND BEING 5197.55 FEET OR 315.00 RODS IN LENGTH, CONTAINING 3.580 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NW/4	586.49 L.F.	35.54 RODS	0.404 ACRES	FEE
SE/4 NW/4	1856.47 L.F.	112.51 RODS	1.279 ACRES	BLM
NW/4 NE/4	1337.15 L.F.	81.04 RODS	0.921 ACRES	BLM
SE/4 NE/4	201.71 L.F.	12.23 RODS	0.139 ACRES	BLM
NE/4 SE/4	1215.73 L.F.	73.68 RODS	0.837 ACRES	STATE

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS DAY OF MARCH 2025

FILIMON F. JARAMILLO NEW MEXICO 12797 REGISTERED PROFESSIONAL SURVEYOR

FILIMON F. JARAMILLO PLS 12797
301 SOUTH CANAL
(575) 234-3327

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

SHEET: 2-4

SURVEY NO. 10351A

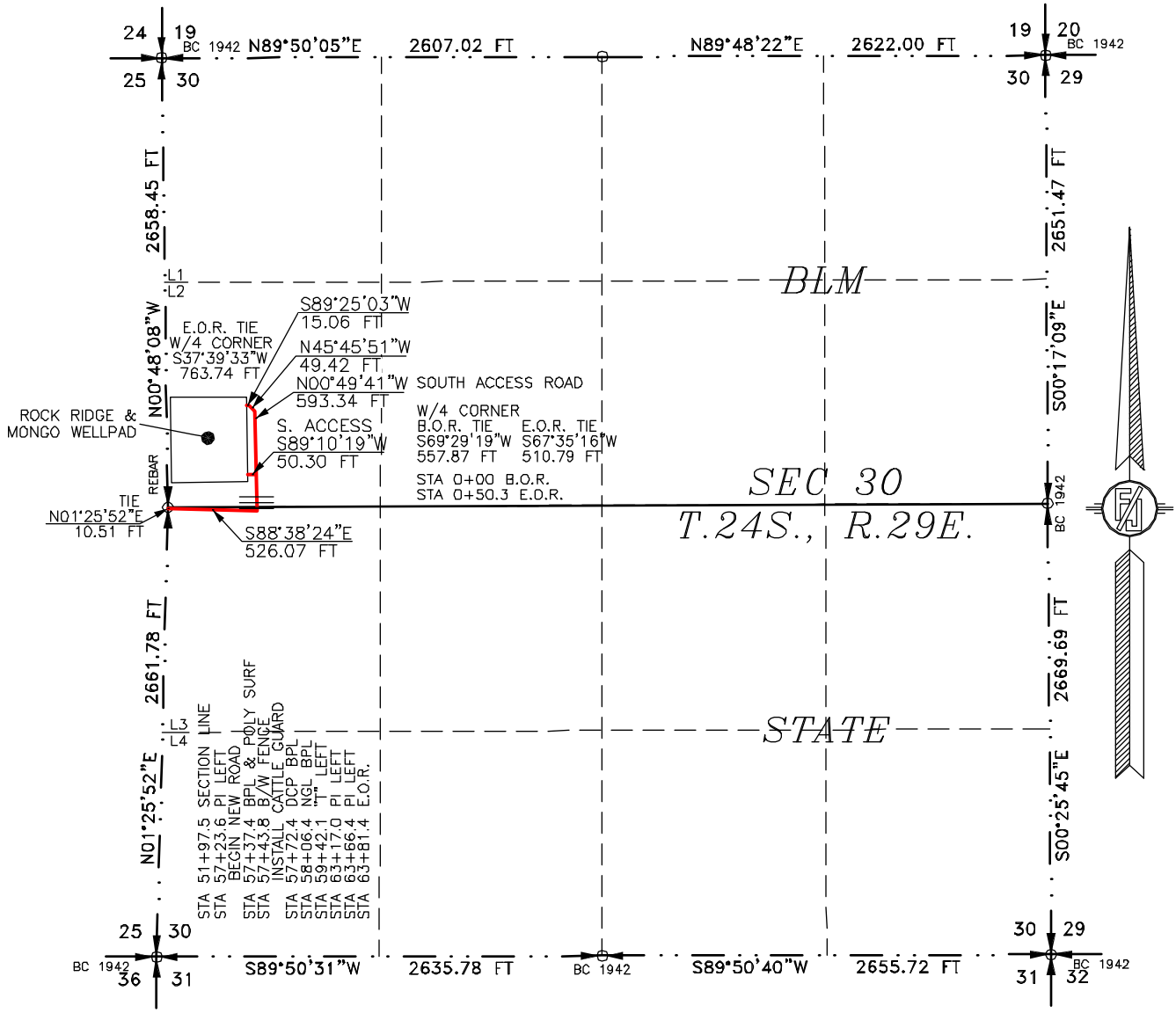
MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FOR ROCK RIDGE & MONGO WELLPAD

3R OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 31, 2025



SEE NEXT SHEET (4–4) FOR DESCRIPTION

1000 0 1000
Scale: 1" = 1000'

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 31st DAY OF MARCH 2025.

FILIMON F. JARAMILLO NEW MEXICO 12797 REGISTERED PROFESSIONAL SURVEYOR

FILIMON F. JARAMILLO PLS 12797
301 SOUTH CANAL
CARLSBAD, NEW MEXICO
(575) 234-3327

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

SHEET: 3–4 SURVEY NO. 10351A

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FOR ROCK RIDGE & MONGO WELLPAD

3R OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 31, 2025

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO AND BUREAU OF LAND MANAGEMENT LAND IN SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

MAIN ROAD
BEGINNING AT A POINT WITHIN LOT 3 OF SAID SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N01°25'52"E, A DISTANCE OF 10.51 FEET;
THENCE S88°38'24"E A DISTANCE OF 526.07 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°49'41"W A DISTANCE OF 593.34 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N45°45'51"W A DISTANCE OF 49.42 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°25'03"W A DISTANCE OF 15.06 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S37°39'33"W, A DISTANCE OF 763.74 FEET;

SAID STRIP OF LAND BEING 1183.89 FEET OR 71.75 RODS IN LENGTH, CONTAINING 0.815 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

LOT 3	551.40 L.F.	33.42 RODS	0.380 ACRES	STATE
LOT 2	632.49 L.F.	38.33 RODS	0.436 ACRES	BLM

SOUTH ACCESS
BEGINNING AT A POINT WITHIN LOT 2 OF SAID SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S69°29'19"W, A DISTANCE OF 557.87 FEET;
THENCE S89°10'19"W A DISTANCE OF 50.30 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 30, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S67°35'16"W, A DISTANCE OF 510.79 FEET;

SAID STRIP OF LAND BEING 50.30 FEET OR 3.05 RODS IN LENGTH, CONTAINING 0.035 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

LOT 2	50.30 L.F.	3.05 RODS	0.035 ACRES	BLM

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 31st DAY OF MARCH 2025.

FILIMON F. JARAMILLO NEW MEXICO 12797 REGISTERED PROFESSIONAL SURVEYOR

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Phone (575) 234-3327

SHEET: 4-4 SURVEY NO. 10351A

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

Drilling Plan

Operator

3R Operating, LLC

Project Name

MONGO 25 FED COM 752H

SHL: 2290 FNL & 160' FWL of Section 30-24S-29E, Eddy County, NM
BHL: 2290' FNL & 330' FWL of Section 25-24S-28E, Eddy County, NM

Prepared By

Austin Tramell

Submitted To

Bureau of Land Management - Carlsbad Field Office

1.0 Estimated Formation Tops

Formation	Depth	Primary Lithology	Primary Mineral Resources
Rustler	Surface	Anhydrite	Usable Water
Salado	610	Salt	None
Castille	1,175	Limestone	None
Lamar	2,695	Limestone	None
Delaware	2,720	Sandstone	None
Bone Spring	6,425	Limestone	Oil & Gas
1st Bone Spring	7,380	Sandstone	Oil & Gas
2nd Bone Spring	8,185	Sandstone	Oil & Gas
3rd Bone Spring	9,270	Sandstone	Oil & Gas
Wolfcamp	9,655	Other:X/Y Carbonate	Oil & Gas

Total Depth and Target Formation

Total Vertical Depth (ft): 9,900
Total Measured Depth (ft): 15,007
Target Formation: Wolfcamp

2.0 Estimated Depths of Oil & Gas

Substance	Depth (ft)
Top of Hydrocarbons	6,425
Bottom of Hydrocarbons	TD

3.0 Pressure Control Equipment

Ten thousand (10M) psi working pressure Blind Rams & Pipe Rams and a five thousand (5M) psi Annular Preventer will be installed on all casing. Two (2) chokes, with at least one (1) being a remotely controlled hydraulic choke, will used. If a full 10M system is required by the BLM, three (3) chokes will be used.

A variance to the requirement of a rigid steel line connecting the BOP to the choke manifold is requested. Specifications for the flex hose are provided with the BOP schematic in the exhibit section.

Operator testing procedures will meet minimum standards for well control equipment testing per CFR § 3172.6(b)(9). Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing if BOP stack is not isolated from casing. Annular type preventers shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

In addition, the BOP equipment will be tested after any repairs to the equipment and prior to drilling out below any casing string. Pipe rams, blind rams, and annular preventer will be activated on each trip and weekly BOP drills will be held with each crew.

Floor safety valves that are fully open and sized to fit drill pipe and collars will be available on the rig floor in the

open position when the Kelly is not in use.

4.0 Proposed Casing and Design Analysis

4.1 Proposed Casing Program

Interval	Length (ft)	Size (in)	Weight/ft (lbs)	Grade	Thread	Condition	Hole size (in)
Surface	350	13.375	48	H-40	STC	NEW	17.5
Inter.	9,900	9.625	40	P-110	BTC	NEW	12.25
Prod.	15,007	5.5	20	P110	BTC	New	8.75

4.2 Casing Specifications

Interval	Total Vertical Depth (TVD)	Total Measured Depth (MD)	Weight/ft (lbs)	Grade	Collapse (psi)	Internal Yld (psi)	Body Yld Strength (psi)	Joint Strength (psi)
Surface	350	350	48	H-40	770	1,730	541,000	322,000
Inter.	9,900	9,900	40	P-110	3,470	7,910	1,260,000	1,266,000
Prod.	9,900	15,007	20	P110	11,080	12,640	641,000	667,000

5.0 Proposed Cement Program

Surface Casing Cement

Lead/Tail	TOC (MD)	Bottom of Cmt (MD)	Density (lbs/gal)	Yield (ft^3/sk)	Excess (%)	Volume (ft^3)	# of Sks Cmt
Sur. Lead	0	50	13.50	1.79	100	70	39
Sur. Tail	50	350	14.80	1.33	100	417	313

Lead Cmt Type: Class C
Lead Additives: 4% Gel + 5% Salt +0.2% SA-1 + 0.25pps Pol-E Flake + 0.005gps NOFoam V1A
Tail Cmt Type: Class C
Tail Additives: 1% calcium chloride + 0.005gps NoFoam V1A

Intermediate Casing Cement

Lead/Tail	TOC (MD)	Bottom of Cmt (MD)	Density (lbs/gal)	Yield (ft^3/sk)	Excess (%)	Volume (ft^3)	# of Sks Cmt
Int. Lead	0	9,400	12.70	1.53	50	4,385	2,866
Int. Tail	9,400	9,900	14.80	1.33	50	235	177

Lead Cmt Type: 40% Class C + 60% POZ
Lead Additives: 5% Salt + 1% SMS + 2% CS-9 + 0.1% R-1300 + 0.25pps Pol-E Flake + 0.005gps NoFoam V1A
Tail Cmt Type: Class C
Tail Additives: 1% calcium chloride + 0.005gps NoFoam V1A

Production Casing Cement

Lead/Tail	TOC (MD)	Bottom of Cmt (MD)	Density (lbs/gal)	Yield (ft^3/sk)	Excess (%)	Volume (ft^3)	# of Sks Cmt
Prod. Lead	0	8,871	10.70	3.34	15	2,364	708
Prod. Tail	8,871	15,007	13.50	1.54	15	1,750	1,137

Lead Cmt Type: 100% ProLite

Lead Additives: 5pps Plexcrete STE + 2% SMS + 0.1% RCKCAS-100 + .85% R-1300 + 0.2% FL-24 + .25pps Pol-E Flake + 0.005gps NoFoam V1A

Tail Cmt Type: 50% Class H + 50% B POZ

Tail Additives: 6% Gell + 5% Slat + .2% SMS + .55% FR-5 + .4% FL-24 + 0.005gps NoFoam V1A

*** Operator reserves the right to change cement designs as hole conditions may warrant**

6.0 Proposed Mud Program

Interval	Top (MD)	Bottom (MD)	Type	Max Mud Weight Pressure Control Design	Max Mud Weight Hole Control Design	Viscosity (cP)	Formation Fracture Gradient	Fluid Loss
Surface	0	350	FW	9.2	8.4	32-36	0.75	NC
Inter.	350	9,900	FW	10.30	10.0	28-30	0.75	NC
Prod.	9,900	15,007	OBM	12.5	12	50-70	0.75	8-10 cc

Mud weight increases at shoe depths are for pressure control. Mud weight increases in the curve and lateral section of the hole are for hole stability, not pressure control. Mud weight assumptions for casing load designs exceed anticipated maximum mud weight for balanced drilling in all hole sections. Expected mud weights in producing formation will be 0.5 to 1.0 lbs/gal greater than formation pressure (i.e. overbalanced drilling).

The mud system will run as a closed loop system with PVT monitoring. All drill cuttings and liquid mud will be hauled to an approved site for disposal or soil farmed upon receiving appropriate approval.

An industry accepted medium will be stored on location in the event that there is a loss of circulation in the well bore.

7.0 Drilling Design Analysis

7.1 Casing Safety Factors

**See separate SF attachment*

Interval	Burst Safety Factor	Collapse Safety Factor	Pipe Body Tensile Safety Factor	Joint Tension Safety Factor
Surface	11.05	4.92	32.20	19.17
Inter.	1.49	1.31	3.18	3.2
Prod.	1.96	1.72	3.24	3.37

7.2 Casing Design Assumptions

7.2.1 Surface Casing Design Assumptions

Burst Design Assumptions:

Calculations assume complete evacuation behind pipe.

Collapse Design Assumptions:

Calculations assume complete evacuation behind pipe.

Tension Design Assumptions:

Calculations assume string held in suspension to TVD.

7.2.2 Intermediate Casing Design Assumptions

Burst Design Assumptions:

Calculations assume complete evacuation behind pipe.

Collapse Design Assumptions:

Calculations assume complete evacuation behind pipe.

Tension Design Assumptions:

Calculations assume string held in suspension to TVD.

7.2.3 Production Casing Design Assumptions

Burst Design Assumptions:

Calculations assume complete evacuation behind pipe. Safety factor calculated using offset pressure gradient variance factor of a maximum of 0.22psi/ft.

Collapse Design Assumptions:

Calculations assume complete evacuation behind pipe. Safety factor calculated using offset pressure gradient variance factor of a maximum of 0.22psi/ft.

Tension Design Assumptions:

Calculations assume string held in suspension to TVD.

8.0 Completion Program and Casing Design

Hydraulic fracturing will occur through the production casing. The burst design calculation assumes TOC at 9400 ft., therefore, the backside of the production casing is not evacuated. The maximum pumping pressure is 9500 psi with a maximum proppant fluid weight of 9.5 lbs/gal.

Upon request, operator will provide proof of cement bonding by bond log. Operator is responsible for log interpretation and certification prior to frac treatment.

Upon request, operator will provide estimated fracture lengths, flowback storage, volumes of fluids and amount of sand to be used, and number of stages of frac procedure. Furthermore, a report of the annulus pressures before and after each stage of treatment may be requested by the BLM. The report may include chemical additives (other than proprietary), dissolved solids in frac fluid, and depth of perforations.

9.0 Drilling Evaluation Program

Required Testing, Logging, and Coring procedures noted below:

* Mud Logging/Gamma Ray/MWD – (MWD on horizontal wells only).
* Open hole logs (GR/SP/DIL/LDT/CNL/ML) from TD (horizontal well - vertical portion of hole) to the top of the uppermost potential hydrocarbon intervals
* Open hole logs (GR/SP/DIL) from the top of the uppermost hydrocarbon interval to the base of the surface casing and (GR) log from base of surface casing to surface.
* Cased hole CBL on production casing.

Note: The above referenced logging requirements are mandatory unless:

1) The well is located off unit, or
2) The operator can provide the BLM adequate geologic information in which they based the location and drilling of the well, or
3) The operator can provide the BLM logging data from a well that is within a 1-mile radius from the proposed surface hole location. The logging data can be no more than 30 years old and must be at least to TD of the proposed well.

10.0 Downhole Conditions

Zones of Possible Lost Circulation:	N/A	
Zones of Possible Abnormal Pressure:	N/A	
Maximum Bottom Hole Tempurature:	180	degrees F
Maximum Bottom Hole Pressure:	6,890	psi
Maximum Anticipated Surface Pressure:	4,558	psi

Casing Program: **RRR-Mongo 25 Fed Com 752H (fka 802H) - 13/8" x 9 5/8" x 5 1/2")**

Open Hole Size (Inches)	Casing Depth; From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	Anticipated Mud Weight (ppg)	Burst (psi)	Burst SF (1.125)	Collapse (psi)	Collapse SF (1.125)	Tension Joint (klbs)	Air Weight (lbs)	Tension Joint SF (1.8)	Tension Body (klbs)	Air Weight (lbs)	Tension Body SF (1.8)
Surface																			
17.5"	0'	350'	350'	13 3/8"	48.0	H-40	STC	New	8.6	1730	11.05	770	4.92	322,000	16,800	19.17	541,000	16,800	32.20
Intermediate																			
12.25"	0'	9,900'	9,900'	9 5/8"	40	P-110	BTC	New	10.3	7910	1.49	3470	1.31	1,266,000	396,000	3.20	1,260,000	396,000	3.18
Production																			
8.75"	0'	15,007'	9,900'	5 1/2"	20	P-110	BTC	New	12.5	12640	1.96	11080	1.72	667,000	198,000	3.37	641,000	198,000	3.24

Casing Design Criteria and Casing Loading Assumptions:

Surface

Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.6	ppg
Collapse	A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	8.6	ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.6	ppg

Intermediate

Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	10.3	ppg
Collapse	A 1.125 design factor with 1/2 TVD internal evacuation and collapse force equal to a mud gradient of:	10.3	ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	10.3	ppg

Production

Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	12.5	ppg
Collapse	A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	12.5	ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	12.5	ppg

3R Operating, LLC

Company: 3R Operating, LLC
Field: Eddy County, NM (NAD83)
Location: Mongo 25 Fed Com
Well: Mongo 25 Fed Com 752H
OH
Plan: Plan 1
GL 2925 + 25' KB @ 2950.00usft

RIG: TBD

Azimuths to Grid North
True North: -0.16°
Magnetic North: 6.14°

Magnetic Field
Strength: 47033.2nT
Dip Angle: 59.68°
Date: 4/11/2025
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.14°

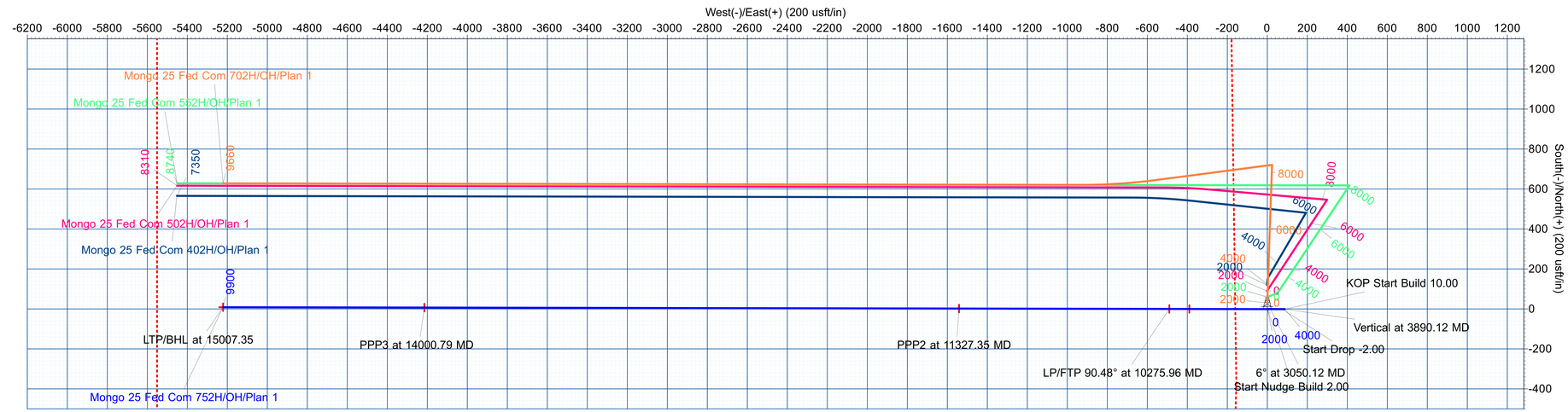
LEGACY DIRECTIONAL

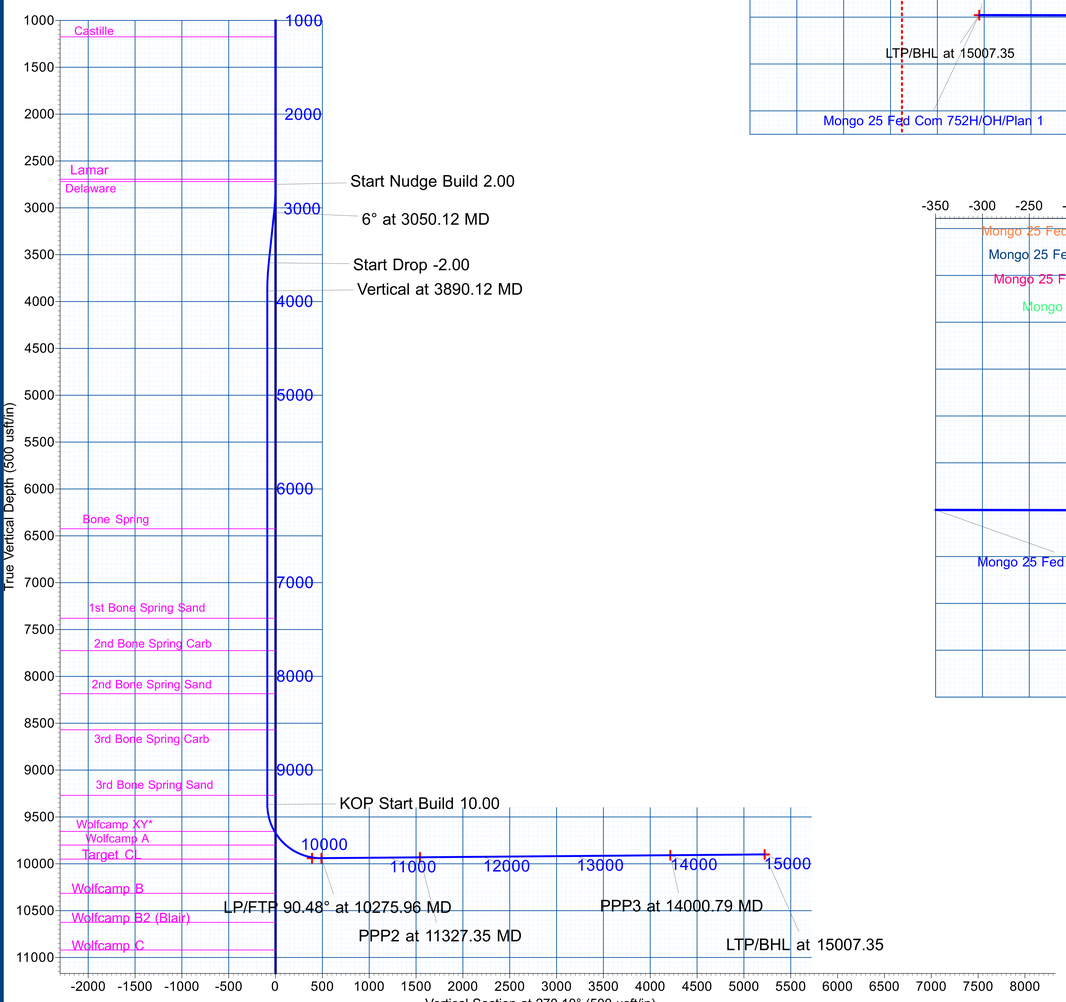
PROJECT DETAILS: Eddy County, NM (NAD83)

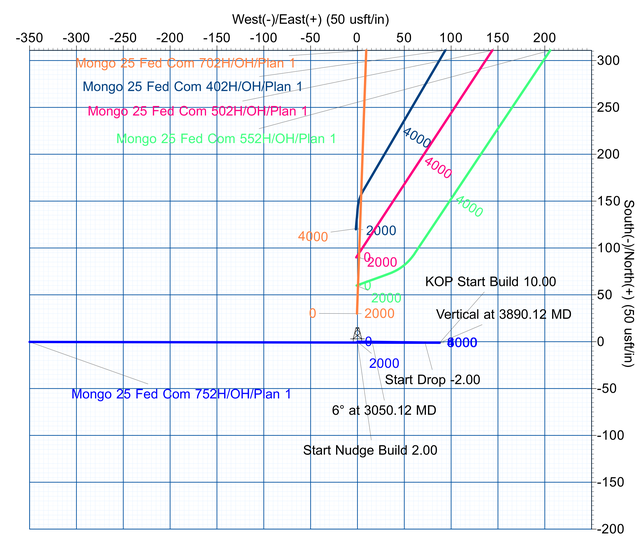
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
610.00	610.00	Salado
1175.00	1175.00	Castille
2695.00	2695.00	Lamar
2720.00	2720.00	Delaware
6425.00	6429.06	Bone Spring
7380.00	7384.06	1st Bone Spring Sand
7725.00	7729.06	2nd Bone Spring Carb
8185.00	8189.06	2nd Bone Spring Sand
8570.00	8574.06	3rd Bone Spring Carb
9270.00	9274.06	3rd Bone Spring Sand
9655.00	9672.81	Wolfcamp XY*
9800.00	9861.91	Wolfcamp A







WELL DETAILS: Mongo 25 Fed Com 752H

GL 2925 + 25' KB @ 2950.00usft 2925.00

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	432794.80	634711.65	32.189470	-104.031493	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2750.00	0.00	0.00	2750.00	0.00	0.00	0.00	0.00	0.00	
3	3050.12	6.00	90.69	3049.57	-0.19	15.70	2.00	90.69	-15.71	
4	3590.00	6.00	90.69	3586.49	-0.87	72.16	0.00	0.00	-72.16	
5	3890.12	0.00	270.10	3886.06	-1.06	87.86	2.00	180.00	-87.86	
6	9371.12	0.00	270.10	9367.06	-1.06	87.86	0.00	0.00	-87.86	
7	10275.96	90.48	270.10	9940.00	-0.02	-489.94	10.00	0.00	489.94	FTP - Mongo 25 Fed Com 752H
8	11327.35	90.48	270.10	9931.11	1.88	-1541.29	0.00	0.00	1541.29	PPP2 - Mongo 25 Fed Com 752H
9	14000.79	90.48	270.10	9908.51	6.70	-4214.63	0.00	0.00	4214.64	PPP3 - Mongo 25 Fed Com 752H
10	15007.35	90.48	270.10	9900.00	8.51	-5221.15	0.00	0.00	5221.16	LTP/BHL - Mongo 25 Fed Com 752H

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP/BHL - Mongo 25 Fed Com 752H	9900.00	8.51	-5221.15	432803.31	629490.50	32.189533	-104.048371
PPP3 - Mongo 25 Fed Com 752H	9908.51	6.69	-4214.63	432801.49	630497.02	32.189520	-104.045117
PPP2 - Mongo 25 Fed Com 752H	9931.11	1.88	-1541.29	432796.68	633170.36	32.189487	-104.036475
FTP - Mongo 25 Fed Com 752H	9940.00	-0.02	-489.94	432794.78	634221.71	32.189474	-104.033077
KOP - Mongo 25 Fed Com 752H	9940.00	-0.01	-389.95	432794.79	634321.70	32.189473	-104.032754

Plan: Plan 1 (Mongo 25 Fed Com 752H/OH)
Created By: Jenise Kirkpatrick Date: 16:41, April 11 2025

3R Operating, LLC

Eddy County, NM (NAD83)
Mongo 25 Fed Com
Mongo 25 Fed Com 752H

OH

Plan: Plan 1

Standard Planning Report

14 April, 2025

Legacy Directional Drilling

Planning Report

Database:	EDM_WA	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Company:	3R Operating, LLC	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Project:	Eddy County, NM (NAD83)	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site:	Mongo 25 Fed Com	**North Reference:**	Grid
Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project Eddy County, NM (NAD83)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Mongo 25 Fed Com

Site Position:		**Northing:**	432,914.76 usft	**Latitude:**	32.189800
From:	Map	**Easting:**	634,709.97 usft	**Longitude:**	-104.031498
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Mongo 25 Fed Com 752H

Well Position	**+N/-S**	0.00 usft	**Northing:**	432,794.80 usft	**Latitude:**	32.189470
	+E/-W	0.00 usft	**Easting:**	634,711.65 usft	**Longitude:**	-104.031493
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	2,925.00 usft
Grid Convergence:		0.16 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/11/2025	6.30	59.68	47,033.18785784

Design Plan 1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	270.10

Plan Survey Tool Program **Date** 4/11/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,007.35	Plan 1 (OH)	MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St	

Legacy Directional Drilling

Planning Report

Database:	EDM_WA	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Company:	3R Operating, LLC	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Project:	Eddy County, NM (NAD83)	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site:	Mongo 25 Fed Com	**North Reference:**	Grid
Well:	Mongo 25 Fed Com 752H	**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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,750.00	0.00	0.00	2,750.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,050.12	6.00	90.69	3,049.57	-0.19	15.70	2.00	2.00	0.00	90.69	
3,590.00	6.00	90.69	3,586.49	-0.87	72.16	0.00	0.00	0.00	0.00	
3,890.12	0.00	270.10	3,886.06	-1.06	87.86	2.00	-2.00	0.00	180.00	
9,371.12	0.00	270.10	9,367.06	-1.06	87.86	0.00	0.00	0.00	0.00	
10,275.96	90.48	270.10	9,940.00	-0.02	-489.94	10.00	10.00	0.00	0.00	FTP - Mongo 25 Fed
11,327.35	90.48	270.10	9,931.11	1.88	-1,541.29	0.00	0.00	0.00	0.00	PPP2 - Mongo 25 Fe
14,000.79	90.48	270.10	9,908.51	6.70	-4,214.63	0.00	0.00	0.00	0.00	PPP3 - Mongo 25 Fe
15,007.35	90.48	270.10	9,900.00	8.51	-5,221.15	0.00	0.00	0.00	0.00	LTP/BHL - Mongo 25

Legacy Directional Drilling

Planning Report

Database:	EDM_WA	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Company:	3R Operating, LLC	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Project:	Eddy County, NM (NAD83)	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site:	Mongo 25 Fed Com	**North Reference:**	Grid
Well:	Mongo 25 Fed Com 752H	**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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
610.00	0.00	0.00	610.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,175.00	0.00	0.00	1,175.00	0.00	0.00	0.00	0.00	0.00	0.00
Castille									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,695.00	0.00	0.00	2,695.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar									
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,720.00	0.00	0.00	2,720.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
2,750.00	0.00	0.00	2,750.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Nudge Build 2.00									
2,800.00	1.00	90.69	2,800.00	-0.01	0.44	-0.44	2.00	2.00	0.00
2,900.00	3.00	90.69	2,899.93	-0.05	3.93	-3.93	2.00	2.00	0.00
3,000.00	5.00	90.69	2,999.68	-0.13	10.90	-10.90	2.00	2.00	0.00
3,050.12	6.00	90.69	3,049.57	-0.19	15.70	-15.71	2.00	2.00	0.00
6° at 3050.12 MD									
3,100.00	6.00	90.69	3,099.18	-0.25	20.92	-20.92	0.00	0.00	0.00
3,200.00	6.00	90.69	3,198.63	-0.38	31.38	-31.38	0.00	0.00	0.00
3,300.00	6.00	90.69	3,298.08	-0.51	41.83	-41.83	0.00	0.00	0.00
3,400.00	6.00	90.69	3,397.53	-0.63	52.29	-52.29	0.00	0.00	0.00
3,500.00	6.00	90.69	3,496.98	-0.76	62.75	-62.75	0.00	0.00	0.00
3,590.00	6.00	90.69	3,586.49	-0.87	72.16	-72.16	0.00	0.00	0.00
Start Drop -2.00									
3,600.00	5.80	90.69	3,596.44	-0.88	73.18	-73.19	2.00	-2.00	0.00
3,700.00	3.80	90.69	3,696.08	-0.99	81.55	-81.56	2.00	-2.00	0.00
3,800.00	1.80	90.69	3,795.96	-1.04	86.44	-86.45	2.00	-2.00	0.00

Legacy Directional Drilling

Planning Report

Database:	EDM_WA	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Company:	3R Operating, LLC	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Project:	Eddy County, NM (NAD83)	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site:	Mongo 25 Fed Com	**North Reference:**	Grid
Well:	Mongo 25 Fed Com 752H	**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)
3,890.12	0.00	270.10	3,886.06	-1.06	87.86	-87.86	2.00	-2.00	0.00
Vertical at 3890.12 MD									
3,900.00	0.00	0.00	3,895.94	-1.06	87.86	-87.86	0.00	0.00	0.00
4,000.00	0.00	0.00	3,995.94	-1.06	87.86	-87.86	0.00	0.00	0.00
4,100.00	0.00	0.00	4,095.94	-1.06	87.86	-87.86	0.00	0.00	0.00
4,200.00	0.00	0.00	4,195.94	-1.06	87.86	-87.86	0.00	0.00	0.00
4,300.00	0.00	0.00	4,295.94	-1.06	87.86	-87.86	0.00	0.00	0.00
4,400.00	0.00	0.00	4,395.94	-1.06	87.86	-87.86	0.00	0.00	0.00
4,500.00	0.00	0.00	4,495.94	-1.06	87.86	-87.86	0.00	0.00	0.00
4,600.00	0.00	0.00	4,595.94	-1.06	87.86	-87.86	0.00	0.00	0.00
4,700.00	0.00	0.00	4,695.94	-1.06	87.86	-87.86	0.00	0.00	0.00
4,800.00	0.00	0.00	4,795.94	-1.06	87.86	-87.86	0.00	0.00	0.00
4,900.00	0.00	0.00	4,895.94	-1.06	87.86	-87.86	0.00	0.00	0.00
5,000.00	0.00	0.00	4,995.94	-1.06	87.86	-87.86	0.00	0.00	0.00
5,100.00	0.00	0.00	5,095.94	-1.06	87.86	-87.86	0.00	0.00	0.00
5,200.00	0.00	0.00	5,195.94	-1.06	87.86	-87.86	0.00	0.00	0.00
5,300.00	0.00	0.00	5,295.94	-1.06	87.86	-87.86	0.00	0.00	0.00
5,400.00	0.00	0.00	5,395.94	-1.06	87.86	-87.86	0.00	0.00	0.00
5,500.00	0.00	0.00	5,495.94	-1.06	87.86	-87.86	0.00	0.00	0.00
5,600.00	0.00	0.00	5,595.94	-1.06	87.86	-87.86	0.00	0.00	0.00
5,700.00	0.00	0.00	5,695.94	-1.06	87.86	-87.86	0.00	0.00	0.00
5,800.00	0.00	0.00	5,795.94	-1.06	87.86	-87.86	0.00	0.00	0.00
5,900.00	0.00	0.00	5,895.94	-1.06	87.86	-87.86	0.00	0.00	0.00
6,000.00	0.00	0.00	5,995.94	-1.06	87.86	-87.86	0.00	0.00	0.00
6,100.00	0.00	0.00	6,095.94	-1.06	87.86	-87.86	0.00	0.00	0.00
6,200.00	0.00	0.00	6,195.94	-1.06	87.86	-87.86	0.00	0.00	0.00
6,300.00	0.00	0.00	6,295.94	-1.06	87.86	-87.86	0.00	0.00	0.00
6,400.00	0.00	0.00	6,395.94	-1.06	87.86	-87.86	0.00	0.00	0.00
6,429.06	0.00	0.00	6,425.00	-1.06	87.86	-87.86	0.00	0.00	0.00
Bone Spring									
6,500.00	0.00	0.00	6,495.94	-1.06	87.86	-87.86	0.00	0.00	0.00
6,600.00	0.00	0.00	6,595.94	-1.06	87.86	-87.86	0.00	0.00	0.00
6,700.00	0.00	0.00	6,695.94	-1.06	87.86	-87.86	0.00	0.00	0.00
6,800.00	0.00	0.00	6,795.94	-1.06	87.86	-87.86	0.00	0.00	0.00
6,900.00	0.00	0.00	6,895.94	-1.06	87.86	-87.86	0.00	0.00	0.00
7,000.00	0.00	0.00	6,995.94	-1.06	87.86	-87.86	0.00	0.00	0.00
7,100.00	0.00	0.00	7,095.94	-1.06	87.86	-87.86	0.00	0.00	0.00
7,200.00	0.00	0.00	7,195.94	-1.06	87.86	-87.86	0.00	0.00	0.00
7,300.00	0.00	0.00	7,295.94	-1.06	87.86	-87.86	0.00	0.00	0.00
7,384.06	0.00	0.00	7,380.00	-1.06	87.86	-87.86	0.00	0.00	0.00
1st Bone Spring Sand									
7,400.00	0.00	0.00	7,395.94	-1.06	87.86	-87.86	0.00	0.00	0.00
7,500.00	0.00	0.00	7,495.94	-1.06	87.86	-87.86	0.00	0.00	0.00
7,600.00	0.00	0.00	7,595.94	-1.06	87.86	-87.86	0.00	0.00	0.00
7,700.00	0.00	0.00	7,695.94	-1.06	87.86	-87.86	0.00	0.00	0.00
7,729.06	0.00	0.00	7,725.00	-1.06	87.86	-87.86	0.00	0.00	0.00
2nd Bone Spring Carb									
7,800.00	0.00	0.00	7,795.94	-1.06	87.86	-87.86	0.00	0.00	0.00
7,900.00	0.00	0.00	7,895.94	-1.06	87.86	-87.86	0.00	0.00	0.00
8,000.00	0.00	0.00	7,995.94	-1.06	87.86	-87.86	0.00	0.00	0.00
8,100.00	0.00	0.00	8,095.94	-1.06	87.86	-87.86	0.00	0.00	0.00
8,189.06	0.00	0.00	8,185.00	-1.06	87.86	-87.86	0.00	0.00	0.00
2nd Bone Spring Sand									
8,200.00	0.00	0.00	8,195.94	-1.06	87.86	-87.86	0.00	0.00	0.00

Legacy Directional Drilling

Planning Report

Database:	EDM_WA	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Company:	3R Operating, LLC	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Project:	Eddy County, NM (NAD83)	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site:	Mongo 25 Fed Com	**North Reference:**	Grid
Well:	Mongo 25 Fed Com 752H	**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)
8,300.00	0.00	0.00	8,295.94	-1.06	87.86	-87.86	0.00	0.00	0.00
8,400.00	0.00	0.00	8,395.94	-1.06	87.86	-87.86	0.00	0.00	0.00
8,500.00	0.00	0.00	8,495.94	-1.06	87.86	-87.86	0.00	0.00	0.00
8,574.06	0.00	0.00	8,570.00	-1.06	87.86	-87.86	0.00	0.00	0.00
3rd Bone Spring Carb									
8,600.00	0.00	0.00	8,595.94	-1.06	87.86	-87.86	0.00	0.00	0.00
8,700.00	0.00	0.00	8,695.94	-1.06	87.86	-87.86	0.00	0.00	0.00
8,800.00	0.00	0.00	8,795.94	-1.06	87.86	-87.86	0.00	0.00	0.00
8,900.00	0.00	0.00	8,895.94	-1.06	87.86	-87.86	0.00	0.00	0.00
9,000.00	0.00	0.00	8,995.94	-1.06	87.86	-87.86	0.00	0.00	0.00
9,100.00	0.00	0.00	9,095.94	-1.06	87.86	-87.86	0.00	0.00	0.00
9,200.00	0.00	0.00	9,195.94	-1.06	87.86	-87.86	0.00	0.00	0.00
9,274.06	0.00	0.00	9,270.00	-1.06	87.86	-87.86	0.00	0.00	0.00
3rd Bone Spring Sand									
9,300.00	0.00	0.00	9,295.94	-1.06	87.86	-87.86	0.00	0.00	0.00
9,371.12	0.00	0.00	9,367.06	-1.06	87.86	-87.86	0.00	0.00	0.00
KOP Start Build 10.00									
9,400.00	2.89	270.10	9,395.93	-1.06	87.13	-87.13	10.00	10.00	0.00
9,450.00	7.89	270.10	9,445.69	-1.05	82.44	-82.44	10.00	10.00	0.00
9,500.00	12.89	270.10	9,494.86	-1.04	73.43	-73.43	10.00	10.00	0.00
9,550.00	17.89	270.10	9,543.05	-1.01	60.16	-60.16	10.00	10.00	0.00
9,600.00	22.89	270.10	9,589.90	-0.98	42.75	-42.75	10.00	10.00	0.00
9,650.00	27.89	270.10	9,635.06	-0.94	21.32	-21.32	10.00	10.00	0.00
9,672.81	30.17	270.10	9,655.00	-0.92	10.25	-10.26	10.00	10.00	0.00
Wolfcamp XY*									
9,700.00	32.89	270.10	9,678.18	-0.90	-3.97	3.96	10.00	10.00	0.00
9,750.00	37.89	270.10	9,718.93	-0.84	-32.91	32.91	10.00	10.00	0.00
9,800.00	42.89	270.10	9,757.00	-0.79	-65.30	65.30	10.00	10.00	0.00
9,850.00	47.89	270.10	9,792.10	-0.72	-100.88	100.88	10.00	10.00	0.00
9,861.91	49.08	270.10	9,800.00	-0.71	-109.80	109.80	10.00	10.00	0.00
Wolfcamp A									
9,900.00	52.89	270.10	9,823.97	-0.65	-139.39	139.39	10.00	10.00	0.00
9,950.00	57.89	270.10	9,852.36	-0.58	-180.53	180.52	10.00	10.00	0.00
10,000.00	62.89	270.10	9,877.06	-0.50	-223.98	223.98	10.00	10.00	0.00
10,050.00	67.89	270.10	9,897.88	-0.42	-269.42	269.42	10.00	10.00	0.00
10,100.00	72.89	270.10	9,914.66	-0.33	-316.51	316.51	10.00	10.00	0.00
10,150.00	77.89	270.10	9,927.27	-0.25	-364.88	364.88	10.00	10.00	0.00
10,200.00	82.89	270.10	9,935.61	-0.16	-414.16	414.16	10.00	10.00	0.00
10,250.00	87.89	270.10	9,939.63	-0.07	-463.98	463.98	10.00	10.00	0.00
10,275.96	90.48	270.10	9,940.00	-0.02	-489.94	489.94	10.00	10.00	0.00
LP/FTP 90.48° at 10275.96 MD									
10,300.00	90.48	270.10	9,939.80	0.02	-513.98	513.97	0.00	0.00	0.00
10,400.00	90.48	270.10	9,938.95	0.20	-613.97	613.97	0.00	0.00	0.00
10,500.00	90.48	270.10	9,938.11	0.38	-713.97	713.97	0.00	0.00	0.00
10,600.00	90.48	270.10	9,937.26	0.56	-813.96	813.96	0.00	0.00	0.00
10,700.00	90.48	270.10	9,936.42	0.74	-913.96	913.96	0.00	0.00	0.00
10,800.00	90.48	270.10	9,935.57	0.92	-1,013.96	1,013.96	0.00	0.00	0.00
10,900.00	90.48	270.10	9,934.72	1.11	-1,113.95	1,113.95	0.00	0.00	0.00
11,000.00	90.48	270.10	9,933.88	1.29	-1,213.95	1,213.95	0.00	0.00	0.00
11,100.00	90.48	270.10	9,933.03	1.47	-1,313.95	1,313.95	0.00	0.00	0.00
11,200.00	90.48	270.10	9,932.19	1.65	-1,413.94	1,413.94	0.00	0.00	0.00
11,300.00	90.48	270.10	9,931.34	1.83	-1,513.94	1,513.94	0.00	0.00	0.00
11,327.35	90.48	270.10	9,931.11	1.88	-1,541.29	1,541.29	0.00	0.00	0.00

Legacy Directional Drilling

Planning Report

Database:	EDM_WA	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Company:	3R Operating, LLC	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Project:	Eddy County, NM (NAD83)	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site:	Mongo 25 Fed Com	**North Reference:**	Grid
Well:	Mongo 25 Fed Com 752H	**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)
PPP2 at 11327.35 MD									
11,400.00	90.48	270.10	9,930.50	2.01	-1,613.93	1,613.94	0.00	0.00	0.00
11,500.00	90.48	270.10	9,929.65	2.19	-1,713.93	1,713.93	0.00	0.00	0.00
11,600.00	90.48	270.10	9,928.81	2.37	-1,813.93	1,813.93	0.00	0.00	0.00
11,700.00	90.48	270.10	9,927.96	2.55	-1,913.92	1,913.92	0.00	0.00	0.00
11,800.00	90.48	270.10	9,927.12	2.73	-2,013.92	2,013.92	0.00	0.00	0.00
11,900.00	90.48	270.10	9,926.27	2.91	-2,113.92	2,113.92	0.00	0.00	0.00
12,000.00	90.48	270.10	9,925.42	3.09	-2,213.91	2,213.91	0.00	0.00	0.00
12,100.00	90.48	270.10	9,924.58	3.27	-2,313.91	2,313.91	0.00	0.00	0.00
12,200.00	90.48	270.10	9,923.73	3.45	-2,413.90	2,413.91	0.00	0.00	0.00
12,300.00	90.48	270.10	9,922.89	3.63	-2,513.90	2,513.90	0.00	0.00	0.00
12,400.00	90.48	270.10	9,922.04	3.81	-2,613.90	2,613.90	0.00	0.00	0.00
12,500.00	90.48	270.10	9,921.20	3.99	-2,713.89	2,713.90	0.00	0.00	0.00
12,600.00	90.48	270.10	9,920.35	4.17	-2,813.89	2,813.89	0.00	0.00	0.00
12,700.00	90.48	270.10	9,919.51	4.35	-2,913.89	2,913.89	0.00	0.00	0.00
12,800.00	90.48	270.10	9,918.66	4.53	-3,013.88	3,013.89	0.00	0.00	0.00
12,900.00	90.48	270.10	9,917.82	4.71	-3,113.88	3,113.88	0.00	0.00	0.00
13,000.00	90.48	270.10	9,916.97	4.89	-3,213.87	3,213.88	0.00	0.00	0.00
13,100.00	90.48	270.10	9,916.13	5.07	-3,313.87	3,313.87	0.00	0.00	0.00
13,200.00	90.48	270.10	9,915.28	5.25	-3,413.87	3,413.87	0.00	0.00	0.00
13,300.00	90.48	270.10	9,914.43	5.43	-3,513.86	3,513.87	0.00	0.00	0.00
13,400.00	90.48	270.10	9,913.59	5.61	-3,613.86	3,613.86	0.00	0.00	0.00
13,500.00	90.48	270.10	9,912.74	5.79	-3,713.86	3,713.86	0.00	0.00	0.00
13,600.00	90.48	270.10	9,911.90	5.97	-3,813.85	3,813.86	0.00	0.00	0.00
13,700.00	90.48	270.10	9,911.05	6.15	-3,913.85	3,913.85	0.00	0.00	0.00
13,800.00	90.48	270.10	9,910.21	6.33	-4,013.84	4,013.85	0.00	0.00	0.00
13,900.00	90.48	270.10	9,909.36	6.51	-4,113.84	4,113.85	0.00	0.00	0.00
14,000.79	90.48	270.10	9,908.51	6.70	-4,214.63	4,214.64	0.00	0.00	0.00
PPP3 at 14000.79 MD									
14,100.00	90.48	270.10	9,907.67	6.87	-4,313.83	4,313.84	0.00	0.00	0.00
14,200.00	90.48	270.10	9,906.83	7.05	-4,413.83	4,413.84	0.00	0.00	0.00
14,300.00	90.48	270.10	9,905.98	7.23	-4,513.83	4,513.83	0.00	0.00	0.00
14,400.00	90.48	270.10	9,905.13	7.42	-4,613.82	4,613.83	0.00	0.00	0.00
14,500.00	90.48	270.10	9,904.29	7.60	-4,713.82	4,713.82	0.00	0.00	0.00
14,600.00	90.48	270.10	9,903.44	7.78	-4,813.81	4,813.82	0.00	0.00	0.00
14,700.00	90.48	270.10	9,902.60	7.96	-4,913.81	4,913.82	0.00	0.00	0.00
14,800.00	90.48	270.10	9,901.75	8.14	-5,013.81	5,013.81	0.00	0.00	0.00
14,900.00	90.48	270.10	9,900.91	8.32	-5,113.80	5,113.81	0.00	0.00	0.00
15,007.35	90.48	270.10	9,900.00	8.51	-5,221.15	5,221.16	0.00	0.00	0.00
LTP/BHL at 15007.35									

Legacy Directional Drilling

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Company:	3R Operating, LLC	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Project:	Eddy County, NM (NAD83)	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site:	Mongo 25 Fed Com	**North Reference:**	Grid
Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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
LTP/BHL - Mongo 25 Fe - plan hits target center - Point	0.00	0.00	9,900.00	8.51	-5,221.15	432,803.31	629,490.50	32.189533	-104.048371
PPP3 - Mongo 25 Fed C - plan misses target center by 0.01usft at 14000.79usft MD (9908.51 TVD, 6.70 N, -4214.63 E) - Point	0.00	0.00	9,908.51	6.69	-4,214.63	432,801.49	630,497.02	32.189520	-104.045117
PPP2 - Mongo 25 Fed C - plan hits target center - Point	0.00	0.00	9,931.11	1.88	-1,541.29	432,796.68	633,170.36	32.189487	-104.036476
FTP - Mongo 25 Fed Co - plan hits target center - Point	0.00	0.00	9,940.00	-0.02	-489.94	432,794.78	634,221.71	32.189474	-104.033077
KOP - Mongo 25 Fed Cc - plan misses target center by 7.83usft at 10176.86usft MD (9932.28 TVD, -0.20 N, -391.26 E) - Point	0.00	0.00	9,940.00	-0.01	-389.95	432,794.79	634,321.70	32.189473	-104.032754

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
610.00	610.00	Salado			
1,175.00	1,175.00	Castille			
2,695.00	2,695.00	Lamar			
2,720.00	2,720.00	Delaware			
6,429.06	6,425.00	Bone Spring			
7,384.06	7,380.00	1st Bone Spring Sand			
7,729.06	7,725.00	2nd Bone Spring Carb			
8,189.06	8,185.00	2nd Bone Spring Sand			
8,574.06	8,570.00	3rd Bone Spring Carb			
9,274.06	9,270.00	3rd Bone Spring Sand			
9,672.81	9,655.00	Wolfcamp XY*			
9,861.91	9,800.00	Wolfcamp A			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,750.00	2,750.00	0.00	0.00	Start Nudge Build 2.00
3,050.12	3,049.57	-0.19	15.70	6° at 3050.12 MD
3,590.00	3,586.49	-0.87	72.16	Start Drop -2.00
3,890.12	3,886.06	-1.06	87.86	Vertical at 3890.12 MD
9,371.12	9,367.06	-1.06	87.86	KOP Start Build 10.00
10,275.96	9,940.00	-0.02	-489.94	LP/FTP 90.48° at 10275.96 MD
11,327.35	9,931.11	1.88	-1,541.29	PPP2 at 11327.35 MD
14,000.79	9,908.51	6.70	-4,214.63	PPP3 at 14000.79 MD
15,007.35	9,900.00	8.51	-5,221.15	LTP/BHL at 15007.35

3R Operating, LLC

Eddy County, NM (NAD83)
Mongo 25 Fed Com
Mongo 25 Fed Com 752H

OH
Plan 1

Anticollision Report

14 April, 2025

Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Reference Plan 1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 735.90usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 4/11/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,007.35	Plan 1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Mongo 25 Fed Com						
Mongo 25 Fed Com 402H - OH - Plan 1	2,700.00	2,699.00	119.97	100.80	6.257	CC
Mongo 25 Fed Com 402H - OH - Plan 1	2,900.00	2,896.97	120.54	99.96	5.858	ES
Mongo 25 Fed Com 402H - OH - Plan 1	3,000.00	2,992.66	124.39	103.14	5.855	SF
Mongo 25 Fed Com 502H - OH - Plan 1	2,700.00	2,700.00	89.98	70.80	4.692	CC
Mongo 25 Fed Com 502H - OH - Plan 1	2,900.00	2,898.70	90.51	69.92	4.397	ES, SF
Mongo 25 Fed Com 552H - OH - Plan 1	2,700.00	2,700.00	59.99	40.81	3.128	CC
Mongo 25 Fed Com 552H - OH - Plan 1	2,800.00	2,799.54	60.17	40.28	3.026	ES
Mongo 25 Fed Com 552H - OH - Plan 1	2,900.00	2,898.51	61.86	41.29	3.007	SF
Mongo 25 Fed Com 702H - OH - Plan 1	2,700.00	2,700.00	29.99	10.81	1.564	Collision Risk Procedures Re
Mongo 25 Fed Com 702H - OH - Plan 1	2,900.00	2,899.93	30.35	9.76	1.474	Collision Risk Procedures Re

Offset Design: Mongo 25 Fed Com - Mongo 25 Fed Com 402H - OH - Plan 1

Offset Site Error: 0.00 usft
Offset Well Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.00	0.00	-0.80	119.96	-1.68	119.98				
100.00	100.00	99.00	100.00	0.27	0.27	-0.80	119.96	-1.68	119.97	119.44	0.54	224.238	
200.00	200.00	199.00	200.00	0.63	0.62	-0.80	119.96	-1.68	119.97	118.72	1.25	95.896	
300.00	300.00	299.00	300.00	0.99	0.98	-0.80	119.96	-1.68	119.97	118.00	1.97	60.961	
400.00	400.00	399.00	400.00	1.34	1.34	-0.80	119.96	-1.68	119.97	117.29	2.68	44.683	
500.00	500.00	499.00	500.00	1.70	1.70	-0.80	119.96	-1.68	119.97	116.57	3.40	35.266	
600.00	600.00	599.00	600.00	2.06	2.06	-0.80	119.96	-1.68	119.97	115.85	4.12	29.128	
700.00	700.00	699.00	700.00	2.42	2.42	-0.80	119.96	-1.68	119.97	115.14	4.84	24.809	
800.00	800.00	799.00	800.00	2.78	2.77	-0.80	119.96	-1.68	119.97	114.42	5.55	21.606	
900.00	900.00	899.00	900.00	3.14	3.13	-0.80	119.96	-1.68	119.97	113.70	6.27	19.135	
1,000.00	1,000.00	999.00	1,000.00	3.50	3.49	-0.80	119.96	-1.68	119.97	112.99	6.99	17.172	
1,100.00	1,100.00	1,099.00	1,100.00	3.85	3.85	-0.80	119.96	-1.68	119.97	112.27	7.70	15.574	
1,200.00	1,200.00	1,199.00	1,200.00	4.21	4.21	-0.80	119.96	-1.68	119.97	111.55	8.42	14.248	
1,300.00	1,300.00	1,299.00	1,300.00	4.57	4.57	-0.80	119.96	-1.68	119.97	110.83	9.14	13.130	
1,400.00	1,400.00	1,399.00	1,400.00	4.93	4.93	-0.80	119.96	-1.68	119.97	110.12	9.85	12.174	
1,500.00	1,500.00	1,499.00	1,500.00	5.29	5.28	-0.80	119.96	-1.68	119.97	109.40	10.57	11.349	
1,600.00	1,600.00	1,599.00	1,600.00	5.65	5.64	-0.80	119.96	-1.68	119.97	108.68	11.29	10.628	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Mongo 25 Fed Com - Mongo 25 Fed Com 402H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,700.00	1,700.00	1,699.00	1,700.00	6.00	6.00	-0.80	119.96	-1.68	119.97	107.97	12.01	9.993	
1,800.00	1,800.00	1,799.00	1,800.00	6.36	6.36	-0.80	119.96	-1.68	119.97	107.25	12.72	9.430	
1,900.00	1,900.00	1,899.00	1,900.00	6.72	6.72	-0.80	119.96	-1.68	119.97	106.53	13.44	8.927	
2,000.00	2,000.00	1,999.00	2,000.00	7.08	7.08	-0.80	119.96	-1.68	119.97	105.82	14.16	8.475	
2,100.00	2,100.00	2,099.00	2,100.00	7.44	7.43	-0.80	119.96	-1.68	119.97	105.10	14.87	8.066	
2,200.00	2,200.00	2,199.00	2,200.00	7.80	7.79	-0.80	119.96	-1.68	119.97	104.38	15.59	7.695	
2,300.00	2,300.00	2,299.00	2,300.00	8.16	8.15	-0.80	119.96	-1.68	119.97	103.66	16.31	7.357	
2,400.00	2,400.00	2,399.00	2,400.00	8.51	8.51	-0.80	119.96	-1.68	119.97	102.95	17.02	7.047	
2,500.00	2,500.00	2,499.00	2,500.00	8.87	8.87	-0.80	119.96	-1.68	119.97	102.23	17.74	6.762	
2,600.00	2,600.00	2,599.00	2,600.00	9.23	9.23	-0.80	119.96	-1.68	119.97	101.51	18.46	6.500	
2,700.00	2,700.00	2,699.00	2,700.00	9.59	9.59	-0.80	119.96	-1.68	119.97	100.80	19.17	6.257	CC
2,704.45	2,704.45	2,703.45	2,704.45	9.60	9.60	-91.50	119.96	-1.68	119.97	100.77	19.21	6.246	
2,800.00	2,800.00	2,799.00	2,800.00	9.94	9.94	-91.70	119.96	-1.68	119.98	100.10	19.89	6.033	
2,900.00	2,899.93	2,896.97	2,897.97	10.28	10.30	-93.29	120.34	-1.65	120.54	99.96	20.58	5.858	ES
3,000.00	2,999.68	2,992.66	2,993.60	10.63	10.64	-96.09	123.50	-1.37	124.39	103.14	21.24	5.855	SF
3,100.00	3,099.18	3,087.83	3,088.56	10.97	10.98	-99.65	129.79	-0.82	132.27	110.38	21.89	6.042	
3,200.00	3,198.63	3,182.49	3,182.74	11.32	11.32	-102.64	139.16	0.00	143.90	121.38	22.52	6.390	
3,300.00	3,298.08	3,281.89	3,281.39	11.67	11.67	-104.74	151.23	1.89	157.79	134.57	23.23	6.794	
3,400.00	3,397.53	3,383.81	3,382.52	12.01	12.03	-105.57	162.74	7.08	170.17	146.20	23.97	7.100	
3,500.00	3,496.98	3,483.12	3,481.04	12.36	12.38	-105.91	173.54	13.40	181.85	157.18	24.67	7.371	
3,600.00	3,596.44	3,582.44	3,579.56	12.71	12.74	-106.22	184.34	19.72	193.52	168.15	25.37	7.628	
3,700.00	3,696.08	3,681.81	3,678.14	13.06	13.09	-106.14	195.15	26.05	204.63	178.55	26.07	7.848	
3,800.00	3,795.96	3,781.19	3,776.73	13.41	13.45	-105.17	205.96	32.38	214.81	188.04	26.78	8.023	
3,900.00	3,895.94	3,880.47	3,875.21	13.76	13.80	-12.72	216.76	38.70	224.26	196.79	27.47	8.164	
4,000.00	3,995.94	3,979.67	3,973.63	14.11	14.15	-10.62	227.55	45.01	233.66	205.48	28.18	8.292	
4,100.00	4,095.94	4,078.87	4,072.04	14.47	14.51	-8.68	238.34	51.33	243.35	214.46	28.89	8.424	
4,200.00	4,195.94	4,178.07	4,170.45	14.83	14.87	-6.89	249.13	57.64	253.30	223.70	29.60	8.558	
4,300.00	4,295.94	4,277.28	4,268.86	15.19	15.22	-5.23	259.92	63.96	263.47	233.16	30.31	8.693	
4,400.00	4,395.94	4,376.48	4,367.27	15.54	15.58	-3.70	270.71	70.27	273.85	242.83	31.02	8.829	
4,500.00	4,495.94	4,475.68	4,465.68	15.90	15.94	-2.28	281.50	76.59	284.40	252.67	31.73	8.963	
4,600.00	4,595.94	4,574.89	4,564.10	16.26	16.29	-0.97	292.29	82.90	295.12	262.68	32.44	9.097	
4,700.00	4,695.94	4,674.09	4,662.51	16.61	16.65	0.26	303.08	89.22	305.98	272.83	33.16	9.229	
4,800.00	4,795.94	4,773.29	4,760.92	16.97	17.01	1.40	313.87	95.53	316.97	283.10	33.87	9.359	
4,900.00	4,895.94	4,872.49	4,859.33	17.33	17.37	2.46	324.67	101.85	328.08	293.49	34.58	9.487	
5,000.00	4,995.94	4,971.70	4,957.74	17.69	17.72	3.45	335.46	108.16	339.29	303.99	35.30	9.612	
5,100.00	5,095.94	5,070.90	5,056.15	18.04	18.08	4.38	346.25	114.48	350.59	314.58	36.01	9.736	
5,200.00	5,195.94	5,170.10	5,154.56	18.40	18.44	5.25	357.04	120.79	361.98	325.26	36.73	9.856	
5,300.00	5,295.94	5,269.30	5,252.98	18.76	18.80	6.07	367.83	127.11	373.45	336.01	37.44	9.974	
5,400.00	5,395.94	5,368.51	5,351.39	19.12	19.16	6.84	378.62	133.42	384.99	346.83	38.16	10.089	
5,500.00	5,495.94	5,467.71	5,449.80	19.47	19.52	7.57	389.41	139.74	396.60	357.72	38.87	10.202	
5,600.00	5,595.94	5,566.91	5,548.21	19.83	19.88	8.25	400.20	146.05	408.26	368.67	39.59	10.312	
5,700.00	5,695.94	5,666.11	5,646.62	20.19	20.24	8.90	410.99	152.37	419.98	379.67	40.31	10.420	
5,800.00	5,795.94	5,765.32	5,745.03	20.55	20.60	9.51	421.78	158.69	431.75	390.72	41.02	10.524	
5,900.00	5,895.94	5,864.52	5,843.45	20.91	20.96	10.09	432.57	165.00	443.56	401.82	41.74	10.627	
6,000.00	5,995.94	5,963.72	5,941.86	21.26	21.32	10.64	443.36	171.32	455.42	412.96	42.46	10.726	
6,100.00	6,095.94	6,062.92	6,040.27	21.62	21.68	11.16	454.15	177.63	467.31	424.13	43.18	10.823	
6,200.00	6,195.94	6,168.53	6,145.07	21.98	22.06	11.67	465.40	184.21	479.01	435.06	43.96	10.898	
6,300.00	6,295.94	6,287.11	6,263.14	22.34	22.49	12.08	474.75	189.69	487.69	442.87	44.82	10.881	
6,400.00	6,395.94	6,406.38	6,382.25	22.69	22.92	12.30	479.90	192.70	492.45	446.82	45.63	10.792	
6,500.00	6,495.94	6,520.08	6,495.94	23.05	23.32	12.34	480.96	193.32	493.42	447.05	46.37	10.641	
6,600.00	6,595.94	6,620.08	6,595.94	23.41	23.68	12.34	480.96	193.32	493.42	446.34	47.08	10.480	
6,700.00	6,695.94	6,720.08	6,695.94	23.77	24.03	12.34	480.96	193.32	493.42	445.63	47.80	10.323	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Mongo 25 Fed Com - Mongo 25 Fed Com 402H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,800.00	6,795.94	6,820.08	6,795.94	24.13	24.39	12.34	480.96	193.32	493.42	444.91	48.51	10.172	
6,900.00	6,895.94	6,926.12	6,901.83	24.48	24.75	11.90	481.36	189.51	493.05	443.83	49.22	10.018	
7,000.00	6,995.94	7,031.59	7,004.89	24.84	25.10	9.38	483.63	167.91	491.34	441.43	49.91	9.844	
7,083.64	7,079.58	7,111.76	7,079.58	25.14	25.36	6.00	486.66	139.12	490.40	439.91	50.50	9.711	
7,100.00	7,095.94	7,126.38	7,092.73	25.20	25.41	5.25	487.32	132.76	490.46	439.85	50.61	9.691	
7,200.00	7,195.94	7,207.77	7,162.64	25.56	25.65	0.42	491.67	91.45	493.87	442.67	51.19	9.647	
7,300.00	7,295.94	7,275.80	7,216.07	25.92	25.85	-4.40	496.06	49.64	504.95	453.53	51.42	9.820	
7,400.00	7,395.94	7,332.02	7,256.22	26.27	26.01	-8.77	500.17	10.53	526.06	474.99	51.07	10.300	
7,500.00	7,495.94	7,378.43	7,286.33	26.63	26.13	-12.55	503.86	-24.58	558.15	508.04	50.11	11.139	
7,600.00	7,595.94	7,416.91	7,309.06	26.99	26.23	-15.75	507.11	-55.45	600.90	552.25	48.65	12.352	
7,700.00	7,695.94	7,450.00	7,326.90	27.35	26.32	-18.50	510.02	-83.16	653.18	606.24	46.94	13.916	
7,800.00	7,795.94	7,476.18	7,339.86	27.71	26.38	-20.66	512.40	-105.78	713.54	668.43	45.11	15.817	

Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Mongo 25 Fed Com - Mongo 25 Fed Com 502H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-0.80	89.97	-1.26	89.98				
100.00	100.00	100.00	100.00	0.27	0.27	-0.80	89.97	-1.26	89.98	89.44	0.54	167.338	
200.00	200.00	200.00	200.00	0.63	0.63	-0.80	89.97	-1.26	89.98	88.72	1.25	71.716	
300.00	300.00	300.00	300.00	0.99	0.99	-0.80	89.97	-1.26	89.98	88.01	1.97	45.638	
400.00	400.00	400.00	400.00	1.34	1.34	-0.80	89.97	-1.26	89.98	87.29	2.69	33.468	
500.00	500.00	500.00	500.00	1.70	1.70	-0.80	89.97	-1.26	89.98	86.57	3.41	26.422	
600.00	600.00	600.00	600.00	2.06	2.06	-0.80	89.97	-1.26	89.98	85.86	4.12	21.827	
700.00	700.00	700.00	700.00	2.42	2.42	-0.80	89.97	-1.26	89.98	85.14	4.84	18.593	
800.00	800.00	800.00	800.00	2.78	2.78	-0.80	89.97	-1.26	89.98	84.42	5.56	16.194	
900.00	900.00	900.00	900.00	3.14	3.14	-0.80	89.97	-1.26	89.98	83.71	6.27	14.343	
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	-0.80	89.97	-1.26	89.98	82.99	6.99	12.872	
1,100.00	1,100.00	1,100.00	1,100.00	3.85	3.85	-0.80	89.97	-1.26	89.98	82.27	7.71	11.675	
1,200.00	1,200.00	1,200.00	1,200.00	4.21	4.21	-0.80	89.97	-1.26	89.98	81.55	8.42	10.681	
1,300.00	1,300.00	1,300.00	1,300.00	4.57	4.57	-0.80	89.97	-1.26	89.98	80.84	9.14	9.843	
1,400.00	1,400.00	1,400.00	1,400.00	4.93	4.93	-0.80	89.97	-1.26	89.98	80.12	9.86	9.128	
1,500.00	1,500.00	1,500.00	1,500.00	5.29	5.29	-0.80	89.97	-1.26	89.98	79.40	10.57	8.509	
1,600.00	1,600.00	1,600.00	1,600.00	5.65	5.65	-0.80	89.97	-1.26	89.98	78.69	11.29	7.968	
1,700.00	1,700.00	1,700.00	1,700.00	6.00	6.00	-0.80	89.97	-1.26	89.98	77.97	12.01	7.493	
1,800.00	1,800.00	1,800.00	1,800.00	6.36	6.36	-0.80	89.97	-1.26	89.98	77.25	12.73	7.071	
1,900.00	1,900.00	1,900.00	1,900.00	6.72	6.72	-0.80	89.97	-1.26	89.98	76.54	13.44	6.694	
2,000.00	2,000.00	2,000.00	2,000.00	7.08	7.08	-0.80	89.97	-1.26	89.98	75.82	14.16	6.355	
2,100.00	2,100.00	2,100.00	2,100.00	7.44	7.44	-0.80	89.97	-1.26	89.98	75.10	14.88	6.048	
2,200.00	2,200.00	2,200.00	2,200.00	7.80	7.80	-0.80	89.97	-1.26	89.98	74.39	15.59	5.770	
2,300.00	2,300.00	2,300.00	2,300.00	8.16	8.16	-0.80	89.97	-1.26	89.98	73.67	16.31	5.517	
2,400.00	2,400.00	2,400.00	2,400.00	8.51	8.51	-0.80	89.97	-1.26	89.98	72.95	17.03	5.284	
2,500.00	2,500.00	2,500.00	2,500.00	8.87	8.87	-0.80	89.97	-1.26	89.98	72.23	17.74	5.071	
2,600.00	2,600.00	2,600.00	2,600.00	9.23	9.23	-0.80	89.97	-1.26	89.98	71.52	18.46	4.874	
2,700.00	2,700.00	2,700.00	2,700.00	9.59	9.59	-0.80	89.97	-1.26	89.98	70.80	19.18	4.692	CC
2,704.45	2,704.45	2,704.45	2,704.45	9.60	9.61	-91.50	89.97	-1.26	89.98	70.77	19.21	4.684	
2,800.00	2,800.00	2,800.00	2,800.00	9.94	9.95	-91.77	89.97	-1.26	89.99	70.10	19.89	4.524	
2,900.00	2,899.93	2,898.70	2,898.69	10.28	10.30	-93.79	90.32	-1.03	90.51	69.92	20.58	4.397	ES, SF
3,000.00	2,999.68	2,996.05	2,995.99	10.63	10.65	-96.67	93.08	0.78	93.83	72.57	21.26	4.413	
3,100.00	3,099.18	3,093.21	3,092.92	10.97	10.99	-99.75	98.59	4.41	100.41	78.48	21.93	4.579	
3,200.00	3,198.63	3,190.15	3,189.35	11.32	11.34	-101.50	106.83	9.82	109.74	87.16	22.59	4.859	
3,300.00	3,298.08	3,287.79	3,286.13	11.67	11.68	-101.94	117.66	16.94	121.35	98.10	23.25	5.219	
3,400.00	3,397.53	3,387.06	3,384.43	12.01	12.04	-102.12	129.20	24.53	133.42	109.46	23.95	5.570	
3,500.00	3,496.98	3,486.33	3,482.73	12.36	12.39	-102.26	140.75	32.11	145.48	120.83	24.65	5.901	
3,600.00	3,596.44	3,585.60	3,581.04	12.71	12.74	-102.40	152.29	39.70	157.55	132.19	25.36	6.213	
3,700.00	3,696.08	3,684.90	3,679.37	13.06	13.09	-102.04	163.84	47.29	169.17	143.11	26.06	6.492	
3,800.00	3,795.96	3,784.17	3,777.68	13.41	13.45	-100.65	175.38	54.87	180.15	153.40	26.76	6.733	
3,900.00	3,895.94	3,883.29	3,875.83	13.76	13.80	-7.70	186.90	62.45	190.74	163.29	27.45	6.948	
4,000.00	3,995.94	3,982.32	3,973.90	14.11	14.16	-5.11	198.42	70.02	201.48	173.33	28.16	7.156	
4,100.00	4,095.94	4,081.35	4,071.96	14.47	14.51	-2.79	209.93	77.59	212.60	183.74	28.86	7.366	
4,200.00	4,195.94	4,180.37	4,170.03	14.83	14.87	-0.70	221.44	85.15	224.03	194.46	29.57	7.576	
4,300.00	4,295.94	4,279.40	4,268.09	15.19	15.23	1.19	232.96	92.72	235.72	205.44	30.28	7.785	
4,400.00	4,395.94	4,378.43	4,366.15	15.54	15.58	2.90	244.47	100.29	247.65	216.66	30.99	7.991	
4,500.00	4,495.94	4,477.46	4,464.22	15.90	15.94	4.45	255.99	107.86	259.77	228.07	31.70	8.194	
4,600.00	4,595.94	4,576.48	4,562.28	16.26	16.30	5.86	267.50	115.42	272.06	239.65	32.41	8.394	
4,700.00	4,695.94	4,675.51	4,660.35	16.61	16.65	7.15	279.01	122.99	284.51	251.38	33.12	8.589	
4,800.00	4,795.94	4,774.54	4,758.41	16.97	17.01	8.33	290.53	130.56	297.08	263.24	33.84	8.780	
4,900.00	4,895.94	4,873.57	4,856.48	17.33	17.37	9.42	302.04	138.13	309.77	275.22	34.55	8.966	
5,000.00	4,995.94	4,972.59	4,954.54	17.69	17.73	10.42	313.56	145.69	322.56	287.29	35.26	9.147	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Mongo 25 Fed Com - Mongo 25 Fed Com 502H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,095.94	5,071.62	5,052.60	18.04	18.09	11.34	325.07	153.26	335.44	299.46	35.98	9.323	
5,200.00	5,195.94	5,170.65	5,150.67	18.40	18.45	12.19	336.58	160.83	348.40	311.70	36.69	9.495	
5,300.00	5,295.94	5,269.68	5,248.73	18.76	18.81	12.99	348.10	168.40	361.43	324.02	37.41	9.661	
5,400.00	5,395.94	5,368.70	5,346.80	19.12	19.17	13.73	359.61	175.97	374.52	336.39	38.13	9.823	
5,500.00	5,495.94	5,467.73	5,444.86	19.47	19.53	14.42	371.13	183.53	387.67	348.83	38.84	9.981	
5,600.00	5,595.94	5,566.76	5,542.92	19.83	19.89	15.06	382.64	191.10	400.87	361.31	39.56	10.134	
5,700.00	5,695.94	5,665.78	5,640.99	20.19	20.25	15.66	394.16	198.67	414.12	373.84	40.28	10.282	
5,800.00	5,795.94	5,764.81	5,739.05	20.55	20.61	16.23	405.67	206.24	427.41	386.42	40.99	10.427	
5,900.00	5,895.94	5,863.84	5,837.12	20.91	20.97	16.76	417.18	213.80	440.74	399.03	41.71	10.567	
6,000.00	5,995.94	5,962.87	5,935.18	21.26	21.33	17.26	428.70	221.37	454.10	411.68	42.43	10.703	
6,100.00	6,095.94	6,061.89	6,033.24	21.62	21.69	17.73	440.21	228.94	467.50	424.35	43.15	10.835	
6,200.00	6,195.94	6,160.92	6,131.31	21.98	22.05	18.17	451.73	236.51	480.93	437.06	43.86	10.964	
6,300.00	6,295.94	6,259.95	6,229.37	22.34	22.41	18.60	463.24	244.08	494.38	449.80	44.58	11.089	
6,400.00	6,395.94	6,358.98	6,327.44	22.69	22.77	18.99	474.75	251.64	507.86	462.56	45.30	11.211	
6,500.00	6,495.94	6,458.00	6,425.50	23.05	23.14	19.37	486.27	259.21	521.36	475.34	46.02	11.329	
6,600.00	6,595.94	6,557.03	6,523.56	23.41	23.50	19.73	497.78	266.78	534.88	488.14	46.74	11.444	
6,700.00	6,695.94	6,656.06	6,621.63	23.77	23.86	20.07	509.30	274.35	548.42	500.96	47.46	11.556	
6,800.00	6,795.94	6,755.08	6,719.69	24.13	24.22	20.40	520.81	281.91	561.98	513.80	48.18	11.665	
6,900.00	6,895.94	6,873.38	6,837.05	24.48	24.65	20.73	533.16	290.03	574.23	525.16	49.07	11.702	
7,000.00	6,995.94	6,997.51	6,960.74	24.84	25.10	20.95	541.82	295.73	582.38	532.43	49.95	11.659	
7,100.00	7,095.94	7,122.31	7,085.43	25.20	25.55	21.06	546.01	298.48	586.30	535.55	50.75	11.552	
7,200.00	7,195.94	7,232.83	7,195.94	25.56	25.94	21.07	546.41	298.74	586.68	535.20	51.48	11.397	
7,300.00	7,295.94	7,332.83	7,295.94	25.92	26.29	21.07	546.41	298.74	586.68	534.49	52.19	11.241	
7,400.00	7,395.94	7,432.83	7,395.94	26.27	26.64	21.07	546.41	298.74	586.68	533.78	52.90	11.090	
7,500.00	7,495.94	7,532.83	7,495.94	26.63	27.00	21.07	546.41	298.74	586.68	533.07	53.61	10.943	
7,600.00	7,595.94	7,632.83	7,595.94	26.99	27.35	21.07	546.41	298.74	586.68	532.36	54.32	10.800	
7,700.00	7,695.94	7,732.83	7,695.94	27.35	27.70	21.07	546.41	298.74	586.68	531.65	55.03	10.661	
7,800.00	7,795.94	7,832.83	7,795.94	27.71	28.06	21.07	546.41	298.74	586.68	530.94	55.74	10.525	
7,900.00	7,895.94	7,955.58	7,918.42	28.06	28.48	20.52	546.91	292.96	585.53	529.11	56.43	10.377	
8,000.00	7,995.94	8,085.57	8,043.91	28.42	28.90	17.38	549.76	260.26	579.16	522.15	57.01	10.158	
8,100.00	8,095.94	8,196.38	8,142.75	28.78	29.24	12.48	554.08	210.74	570.50	512.78	57.72	9.884	
8,200.00	8,195.94	8,285.64	8,214.24	29.14	29.49	7.11	558.70	157.65	564.40	505.85	58.54	9.640	
8,240.97	8,236.91	8,316.50	8,236.91	29.28	29.57	4.98	560.52	136.80	563.71	504.86	58.85	9.579	
8,300.00	8,295.94	8,355.88	8,264.16	29.50	29.67	2.09	562.99	108.47	565.32	506.14	59.18	9.553	
8,400.00	8,395.94	8,411.06	8,298.91	29.85	29.81	-2.22	566.71	65.80	576.42	517.17	59.26	9.728	
8,500.00	8,495.94	8,450.00	8,320.87	30.21	29.91	-5.41	569.50	33.78	599.26	540.73	58.53	10.238	
8,600.00	8,595.94	8,489.93	8,341.08	30.57	30.00	-8.76	572.49	-0.52	633.82	576.57	57.25	11.072	
8,700.00	8,695.94	8,518.57	8,354.07	30.93	30.07	-11.18	574.70	-25.95	679.22	623.78	55.44	12.251	
8,800.00	8,795.94	8,550.00	8,366.83	31.29	30.14	-13.84	577.20	-54.56	734.03	680.46	53.57	13.703	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Mongo 25 Fed Com - Mongo 25 Fed Com 552H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-0.80	59.98	-0.84	59.99				
100.00	100.00	100.00	100.00	0.27	0.27	-0.80	59.98	-0.84	59.99	59.45	0.54	111.558	
200.00	200.00	200.00	200.00	0.63	0.63	-0.80	59.98	-0.84	59.99	58.73	1.25	47.811	
300.00	300.00	300.00	300.00	0.99	0.99	-0.80	59.98	-0.84	59.99	58.01	1.97	30.425	
400.00	400.00	400.00	400.00	1.34	1.34	-0.80	59.98	-0.84	59.99	57.30	2.69	22.312	
500.00	500.00	500.00	500.00	1.70	1.70	-0.80	59.98	-0.84	59.99	56.58	3.41	17.615	
600.00	600.00	600.00	600.00	2.06	2.06	-0.80	59.98	-0.84	59.99	55.86	4.12	14.551	
700.00	700.00	700.00	700.00	2.42	2.42	-0.80	59.98	-0.84	59.99	55.15	4.84	12.395	
800.00	800.00	800.00	800.00	2.78	2.78	-0.80	59.98	-0.84	59.99	54.43	5.56	10.796	
900.00	900.00	900.00	900.00	3.14	3.14	-0.80	59.98	-0.84	59.99	53.71	6.27	9.562	
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	-0.80	59.98	-0.84	59.99	53.00	6.99	8.581	
1,100.00	1,100.00	1,100.00	1,100.00	3.85	3.85	-0.80	59.98	-0.84	59.99	52.28	7.71	7.783	
1,200.00	1,200.00	1,200.00	1,200.00	4.21	4.21	-0.80	59.98	-0.84	59.99	51.56	8.42	7.121	
1,300.00	1,300.00	1,300.00	1,300.00	4.57	4.57	-0.80	59.98	-0.84	59.99	50.84	9.14	6.562	
1,400.00	1,400.00	1,400.00	1,400.00	4.93	4.93	-0.80	59.98	-0.84	59.99	50.13	9.86	6.085	
1,500.00	1,500.00	1,500.00	1,500.00	5.29	5.29	-0.80	59.98	-0.84	59.99	49.41	10.57	5.672	
1,600.00	1,600.00	1,600.00	1,600.00	5.65	5.65	-0.80	59.98	-0.84	59.99	48.69	11.29	5.312	
1,700.00	1,700.00	1,700.00	1,700.00	6.00	6.00	-0.80	59.98	-0.84	59.99	47.98	12.01	4.995	
1,800.00	1,800.00	1,800.00	1,800.00	6.36	6.36	-0.80	59.98	-0.84	59.99	47.26	12.73	4.714	
1,900.00	1,900.00	1,900.00	1,900.00	6.72	6.72	-0.80	59.98	-0.84	59.99	46.54	13.44	4.462	
2,000.00	2,000.00	2,000.00	2,000.00	7.08	7.08	-0.80	59.98	-0.84	59.99	45.83	14.16	4.236	
2,100.00	2,100.00	2,100.00	2,100.00	7.44	7.44	-0.80	59.98	-0.84	59.99	45.11	14.88	4.032	
2,200.00	2,200.00	2,200.00	2,200.00	7.80	7.80	-0.80	59.98	-0.84	59.99	44.39	15.59	3.847	
2,300.00	2,300.00	2,300.00	2,300.00	8.16	8.16	-0.80	59.98	-0.84	59.99	43.68	16.31	3.678	
2,400.00	2,400.00	2,400.00	2,400.00	8.51	8.51	-0.80	59.98	-0.84	59.99	42.96	17.03	3.523	
2,500.00	2,500.00	2,500.00	2,500.00	8.87	8.87	-0.80	59.98	-0.84	59.99	42.24	17.74	3.381	
2,600.00	2,600.00	2,600.00	2,600.00	9.23	9.23	-0.80	59.98	-0.84	59.99	41.52	18.46	3.249	
2,700.00	2,700.00	2,700.00	2,700.00	9.59	9.59	-0.80	59.98	-0.84	59.99	40.81	19.18	3.128	CC
2,704.45	2,704.45	2,704.45	2,704.45	9.60	9.61	-91.50	59.98	-0.84	59.99	40.78	19.21	3.123	
2,800.00	2,800.00	2,799.54	2,799.54	9.94	9.94	-91.61	60.15	-0.54	60.17	40.28	19.89	3.026	ES
2,900.00	2,899.93	2,898.51	2,898.45	10.28	10.29	-92.15	61.78	2.27	61.86	41.29	20.57	3.007	SF
3,000.00	2,999.68	2,997.42	2,997.13	10.63	10.64	-93.00	65.11	8.04	65.35	44.10	21.25	3.075	
3,100.00	3,099.18	3,096.21	3,095.40	10.97	10.99	-93.75	70.13	16.74	70.61	48.67	21.93	3.219	
3,200.00	3,198.63	3,194.79	3,193.06	11.32	11.33	-92.50	76.83	28.34	77.46	54.86	22.60	3.427	
3,300.00	3,298.08	3,293.91	3,290.86	11.67	11.68	-89.86	84.90	42.32	85.71	62.43	23.28	3.681	
3,400.00	3,397.53	3,393.49	3,389.07	12.01	12.03	-87.56	93.12	56.55	94.23	70.25	23.97	3.930	
3,500.00	3,496.98	3,491.81	3,486.07	12.36	12.38	-85.86	101.57	70.29	103.19	78.55	24.64	4.188	
3,600.00	3,596.44	3,588.76	3,581.75	12.71	12.73	-85.59	112.04	81.81	114.20	88.92	25.28	4.517	
3,700.00	3,696.08	3,685.86	3,677.55	13.06	13.08	-85.78	124.82	91.16	127.53	101.60	25.93	4.918	
3,800.00	3,795.96	3,784.80	3,775.13	13.41	13.43	-84.86	138.52	100.04	141.77	115.13	26.63	5.323	
3,900.00	3,895.94	3,883.54	3,872.51	13.76	13.78	7.82	152.19	108.90	156.46	129.13	27.32	5.726	
4,000.00	3,995.94	3,982.17	3,969.79	14.11	14.14	10.15	165.85	117.75	171.57	143.54	28.03	6.121	
4,100.00	4,095.94	4,080.80	4,067.07	14.47	14.49	12.11	179.51	126.60	186.92	158.19	28.73	6.505	
4,200.00	4,195.94	4,179.43	4,164.35	14.83	14.85	13.77	193.16	135.45	202.45	173.01	29.44	6.876	
4,300.00	4,295.94	4,278.06	4,261.62	15.19	15.20	15.19	206.82	144.30	218.12	187.97	30.15	7.234	
4,400.00	4,395.94	4,376.69	4,358.90	15.54	15.56	16.42	220.47	153.15	233.91	203.05	30.86	7.579	
4,500.00	4,495.94	4,475.32	4,456.18	15.90	15.92	17.50	234.13	162.00	249.79	218.21	31.57	7.911	
4,600.00	4,595.94	4,573.94	4,553.46	16.26	16.27	18.44	247.79	170.85	265.74	233.46	32.29	8.231	
4,700.00	4,695.94	4,672.57	4,650.73	16.61	16.63	19.28	261.44	179.71	281.76	248.76	33.00	8.538	
4,800.00	4,795.94	4,771.20	4,748.01	16.97	16.99	20.03	275.10	188.56	297.83	264.12	33.71	8.834	
4,900.00	4,895.94	4,869.83	4,845.29	17.33	17.35	20.71	288.76	197.41	313.94	279.52	34.43	9.119	
5,000.00	4,995.94	4,968.46	4,942.57	17.69	17.71	21.31	302.41	206.26	330.10	294.95	35.14	9.393	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Mongo 25 Fed Com - Mongo 25 Fed Com 552H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,095.94	5,067.09	5,039.84	18.04	18.07	21.86	316.07	215.11	346.28	310.42	35.86	9.657	
5,200.00	5,195.94	5,165.72	5,137.12	18.40	18.43	22.36	329.73	223.96	362.50	325.92	36.58	9.911	
5,300.00	5,295.94	5,264.35	5,234.40	18.76	18.79	22.82	343.38	232.81	378.73	341.44	37.29	10.156	
5,400.00	5,395.94	5,362.98	5,331.68	19.12	19.15	23.24	357.04	241.66	394.99	356.98	38.01	10.392	
5,500.00	5,495.94	5,461.61	5,428.96	19.47	19.51	23.63	370.69	250.51	411.27	372.54	38.73	10.620	
5,600.00	5,595.94	5,560.24	5,526.23	19.83	19.87	23.99	384.35	259.36	427.57	388.12	39.45	10.839	
5,700.00	5,695.94	5,658.87	5,623.51	20.19	20.23	24.32	398.01	268.21	443.88	403.72	40.16	11.052	
5,800.00	5,795.94	5,757.50	5,720.79	20.55	20.59	24.63	411.66	277.06	460.20	419.32	40.88	11.257	
5,900.00	5,895.94	5,856.13	5,818.07	20.91	20.95	24.91	425.32	285.91	476.54	434.94	41.60	11.455	
6,000.00	5,995.94	5,954.76	5,915.34	21.26	21.32	25.18	438.98	294.76	492.89	450.57	42.32	11.646	
6,100.00	6,095.94	6,053.39	6,012.62	21.62	21.68	25.43	452.63	303.61	509.25	466.20	43.04	11.832	
6,200.00	6,195.94	6,152.02	6,109.90	21.98	22.04	25.67	466.29	312.47	525.61	481.85	43.76	12.011	
6,300.00	6,295.94	6,250.64	6,207.18	22.34	22.40	25.89	479.95	321.32	541.99	497.50	44.48	12.184	
6,400.00	6,395.94	6,349.27	6,304.45	22.69	22.77	26.10	493.60	330.17	558.37	513.17	45.20	12.353	
6,500.00	6,495.94	6,447.90	6,401.73	23.05	23.13	26.29	507.26	339.02	574.76	528.83	45.92	12.516	
6,600.00	6,595.94	6,546.53	6,499.01	23.41	23.49	26.48	520.91	347.87	591.15	544.51	46.64	12.674	
6,700.00	6,695.94	6,645.16	6,596.29	23.77	23.86	26.65	534.57	356.72	607.55	560.19	47.37	12.827	
6,800.00	6,795.94	6,743.79	6,693.56	24.13	24.22	26.82	548.23	365.57	623.96	575.87	48.09	12.976	
6,900.00	6,895.94	6,842.42	6,790.84	24.48	24.58	26.98	561.88	374.42	640.37	591.56	48.81	13.120	
7,000.00	6,995.94	6,941.05	6,888.12	24.84	24.95	27.13	575.54	383.27	656.78	607.25	49.53	13.260	
7,100.00	7,095.94	7,048.29	6,993.93	25.20	25.34	27.28	590.19	392.77	673.02	622.68	50.34	13.369	
7,200.00	7,195.94	7,178.10	7,122.63	25.56	25.82	27.42	604.34	401.93	685.95	634.63	51.32	13.365	
7,300.00	7,295.94	7,309.19	7,253.23	25.92	26.29	27.51	613.64	407.97	694.37	642.15	52.22	13.297	
7,400.00	7,395.94	7,441.02	7,384.95	26.27	26.76	27.55	617.94	410.75	698.24	645.22	53.02	13.169	
7,500.00	7,495.94	7,552.01	7,495.94	26.63	27.14	27.55	618.24	410.94	698.51	644.77	53.73	12.999	
7,600.00	7,595.94	7,652.01	7,595.94	26.99	27.49	27.55	618.24	410.94	698.51	644.07	54.44	12.831	
7,700.00	7,695.94	7,752.01	7,695.94	27.35	27.84	27.55	618.24	410.94	698.51	643.36	55.15	12.666	
7,800.00	7,795.94	7,852.01	7,795.94	27.71	28.19	27.55	618.24	410.94	698.51	642.65	55.86	12.505	
7,900.00	7,895.94	7,952.01	7,895.94	28.06	28.54	27.55	618.24	410.94	698.51	641.94	56.57	12.349	
8,000.00	7,995.94	8,052.01	7,995.94	28.42	28.89	27.55	618.24	410.94	698.51	641.23	57.27	12.196	
8,100.00	8,095.94	8,152.01	8,095.94	28.78	29.25	27.55	618.24	410.94	698.51	640.53	57.98	12.047	
8,200.00	8,195.94	8,252.01	8,195.94	29.14	29.67	27.55	618.24	410.94	698.51	639.74	58.77	11.886	
8,300.00	8,295.94	8,435.27	8,377.46	29.50	30.33	26.09	618.27	391.17	694.42	635.18	59.24	11.722	
8,400.00	8,395.94	8,621.80	8,546.55	29.85	30.88	20.09	618.41	314.38	676.57	617.46	59.11	11.446	
8,500.00	8,495.94	8,752.76	8,646.22	30.21	31.22	12.91	618.56	229.87	653.21	593.49	59.73	10.937	
8,600.00	8,595.94	8,841.14	8,701.46	30.57	31.43	6.73	618.69	161.00	632.91	571.89	61.02	10.372	
8,700.00	8,695.94	8,902.11	8,733.09	30.93	31.57	1.95	618.78	108.91	621.31	559.01	62.30	9.973	
8,747.35	8,743.29	8,924.50	8,743.30	31.10	31.61	0.10	618.82	88.98	619.88	557.17	62.71	9.885	
8,800.00	8,795.94	8,945.80	8,752.27	31.29	31.66	-1.68	618.85	69.67	621.72	558.77	62.95	9.876	
8,900.00	8,895.94	8,978.29	8,764.56	31.65	31.72	-4.45	618.91	39.59	635.57	572.87	62.70	10.137	
9,000.00	8,995.94	9,000.00	8,771.81	32.00	31.76	-6.33	618.94	19.13	662.85	601.31	61.54	10.771	
9,100.00	9,095.94	9,022.98	8,778.63	32.36	31.81	-8.32	618.98	-2.81	702.40	642.60	59.80	11.746	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Mongo 25 Fed Com - Mongo 25 Fed Com 702H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-0.80	29.99	-0.42	29.99				
100.00	100.00	100.00	100.00	0.27	0.27	-0.80	29.99	-0.42	29.99	29.46	0.54	55.779	
200.00	200.00	200.00	200.00	0.63	0.63	-0.80	29.99	-0.42	29.99	28.74	1.25	23.905	
300.00	300.00	300.00	300.00	0.99	0.99	-0.80	29.99	-0.42	29.99	28.02	1.97	15.213	
400.00	400.00	400.00	400.00	1.34	1.34	-0.80	29.99	-0.42	29.99	27.30	2.69	11.156	
500.00	500.00	500.00	500.00	1.70	1.70	-0.80	29.99	-0.42	29.99	26.59	3.41	8.807	
600.00	600.00	600.00	600.00	2.06	2.06	-0.80	29.99	-0.42	29.99	25.87	4.12	7.276	
700.00	700.00	700.00	700.00	2.42	2.42	-0.80	29.99	-0.42	29.99	25.15	4.84	6.198	
800.00	800.00	800.00	800.00	2.78	2.78	-0.80	29.99	-0.42	29.99	24.44	5.56	5.398	
900.00	900.00	900.00	900.00	3.14	3.14	-0.80	29.99	-0.42	29.99	23.72	6.27	4.781	
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	-0.80	29.99	-0.42	29.99	23.00	6.99	4.291	
1,100.00	1,100.00	1,100.00	1,100.00	3.85	3.85	-0.80	29.99	-0.42	29.99	22.29	7.71	3.892	
1,200.00	1,200.00	1,200.00	1,200.00	4.21	4.21	-0.80	29.99	-0.42	29.99	21.57	8.42	3.560	
1,300.00	1,300.00	1,300.00	1,300.00	4.57	4.57	-0.80	29.99	-0.42	29.99	20.85	9.14	3.281	
1,400.00	1,400.00	1,400.00	1,400.00	4.93	4.93	-0.80	29.99	-0.42	29.99	20.13	9.86	3.043	
1,500.00	1,500.00	1,500.00	1,500.00	5.29	5.29	-0.80	29.99	-0.42	29.99	19.42	10.57	2.836	
1,600.00	1,600.00	1,600.00	1,600.00	5.65	5.65	-0.80	29.99	-0.42	29.99	18.70	11.29	2.656	
1,700.00	1,700.00	1,700.00	1,700.00	6.00	6.00	-0.80	29.99	-0.42	29.99	17.98	12.01	2.498	
1,800.00	1,800.00	1,800.00	1,800.00	6.36	6.36	-0.80	29.99	-0.42	29.99	17.27	12.73	2.357	
1,900.00	1,900.00	1,900.00	1,900.00	6.72	6.72	-0.80	29.99	-0.42	29.99	16.55	13.44	2.231	
2,000.00	2,000.00	2,000.00	2,000.00	7.08	7.08	-0.80	29.99	-0.42	29.99	15.83	14.16	2.118	
2,100.00	2,100.00	2,100.00	2,100.00	7.44	7.44	-0.80	29.99	-0.42	29.99	15.12	14.88	2.016	
2,200.00	2,200.00	2,200.00	2,200.00	7.80	7.80	-0.80	29.99	-0.42	29.99	14.40	15.59	1.923	Collision Risk Procedures Req.
2,300.00	2,300.00	2,300.00	2,300.00	8.16	8.16	-0.80	29.99	-0.42	29.99	13.68	16.31	1.839	Collision Risk Procedures Req.
2,400.00	2,400.00	2,400.00	2,400.00	8.51	8.51	-0.80	29.99	-0.42	29.99	12.97	17.03	1.761	Collision Risk Procedures Req.
2,500.00	2,500.00	2,500.00	2,500.00	8.87	8.87	-0.80	29.99	-0.42	29.99	12.25	17.74	1.690	Collision Risk Procedures Req.
2,600.00	2,600.00	2,600.00	2,600.00	9.23	9.23	-0.80	29.99	-0.42	29.99	11.53	18.46	1.625	Collision Risk Procedures Req.
2,700.00	2,700.00	2,700.00	2,700.00	9.59	9.59	-0.80	29.99	-0.42	29.99	10.81	19.18	1.564	Collision Risk Procedures Req., CC
2,704.45	2,704.45	2,704.45	2,704.45	9.60	9.61	-91.50	29.99	-0.42	29.99	10.78	19.21	1.561	Collision Risk Procedures Req.
2,800.00	2,800.00	2,800.00	2,800.00	9.94	9.95	-92.33	29.99	-0.42	30.01	10.12	19.89	1.509	Collision Risk Procedures Req.
2,900.00	2,899.93	2,899.93	2,899.93	10.28	10.31	-98.91	29.99	-0.42	30.35	9.76	20.59	1.474	Collision Risk Procedures Req., ES, SF
3,000.00	2,999.68	2,999.68	2,999.68	10.63	10.66	-111.22	29.99	-0.42	32.18	10.89	21.29	1.511	Collision Risk Procedures Req.
3,100.00	3,099.18	3,099.18	3,099.18	10.97	11.02	-125.75	29.99	-0.42	37.01	15.02	21.99	1.683	Collision Risk Procedures Req.
3,200.00	3,198.63	3,198.13	3,198.13	11.32	11.37	-136.41	30.39	-0.41	44.24	21.56	22.69	1.950	Collision Risk Procedures Req.
3,300.00	3,298.08	3,296.47	3,296.41	11.67	11.73	-141.32	33.73	-0.29	54.31	30.94	23.37	2.324	
3,400.00	3,397.53	3,394.48	3,394.18	12.01	12.08	-142.26	40.41	-0.06	66.60	42.55	24.05	2.770	
3,500.00	3,496.98	3,491.93	3,491.12	12.36	12.43	-140.96	50.36	0.29	80.92	56.21	24.71	3.275	
3,600.00	3,596.44	3,589.46	3,587.77	12.71	12.77	-138.64	63.34	0.74	97.20	71.83	25.37	3.832	
3,700.00	3,696.08	3,688.16	3,685.51	13.06	13.12	-136.20	77.07	1.22	112.50	86.45	26.05	4.318	
3,800.00	3,795.96	3,787.08	3,783.47	13.41	13.47	-133.23	90.83	1.70	125.61	98.86	26.74	4.697	
3,900.00	3,895.94	3,886.09	3,881.52	13.76	13.83	-39.04	104.60	2.19	136.79	109.37	27.43	4.988	
4,000.00	3,995.94	3,985.12	3,979.59	14.11	14.18	-35.50	118.37	2.67	147.62	119.49	28.13	5.248	
4,100.00	4,095.94	4,084.15	4,077.65	14.47	14.53	-32.45	132.15	3.15	158.92	130.09	28.83	5.512	
4,200.00	4,195.94	4,183.17	4,175.71	14.83	14.89	-29.82	145.92	3.63	170.61	141.08	29.54	5.776	
4,300.00	4,295.94	4,282.20	4,273.77	15.19	15.24	-27.52	159.69	4.11	182.61	152.37	30.24	6.038	
4,400.00	4,395.94	4,381.23	4,371.84	15.54	15.60	-25.51	173.47	4.59	194.87	163.92	30.95	6.296	
4,500.00	4,495.94	4,480.25	4,469.90	15.90	15.95	-23.73	187.24	5.07	207.34	175.68	31.66	6.549	
4,600.00	4,595.94	4,579.28	4,567.96	16.26	16.31	-22.16	201.01	5.55	219.98	187.61	32.37	6.796	
4,700.00	4,695.94	4,678.31	4,666.03	16.61	16.66	-20.76	214.79	6.03	232.77	199.69	33.08	7.036	
4,800.00	4,795.94	4,777.33	4,764.09	16.97	17.02	-19.51	228.56	6.51	245.68	211.88	33.80	7.269	
4,900.00	4,895.94	4,876.36	4,862.15	17.33	17.38	-18.38	242.33	7.00	258.69	224.18	34.51	7.496	
5,000.00	4,995.94	4,975.39	4,960.22	17.69	17.73	-17.36	256.11	7.48	271.80	236.57	35.22	7.716	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Mongo 25 Fed Com - Mongo 25 Fed Com 702H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,095.94	5,074.41	5,058.28	18.04	18.09	-16.43	269.88	7.96	284.98	249.04	35.94	7.930	
5,200.00	5,195.94	5,173.44	5,156.34	18.40	18.45	-15.59	283.65	8.44	298.23	261.57	36.65	8.136	
5,300.00	5,295.94	5,272.47	5,254.41	18.76	18.81	-14.81	297.43	8.92	311.53	274.16	37.37	8.337	
5,400.00	5,395.94	5,371.49	5,352.47	19.12	19.17	-14.10	311.20	9.40	324.89	286.81	38.08	8.531	
5,500.00	5,495.94	5,470.52	5,450.53	19.47	19.53	-13.45	324.97	9.88	338.29	299.49	38.80	8.719	
5,600.00	5,595.94	5,569.55	5,548.59	19.83	19.89	-12.85	338.75	10.36	351.74	312.22	39.52	8.901	
5,700.00	5,695.94	5,668.57	5,646.66	20.19	20.25	-12.29	352.52	10.84	365.22	324.98	40.24	9.077	
5,800.00	5,795.94	5,767.60	5,744.72	20.55	20.61	-11.77	366.30	11.32	378.73	337.77	40.95	9.248	
5,900.00	5,895.94	5,866.63	5,842.78	20.91	20.97	-11.29	380.07	11.81	392.26	350.59	41.67	9.413	
6,000.00	5,995.94	5,965.65	5,940.85	21.26	21.33	-10.83	393.84	12.29	405.83	363.44	42.39	9.574	
6,100.00	6,095.94	6,064.68	6,038.91	21.62	21.69	-10.41	407.62	12.77	419.42	376.31	43.11	9.730	
6,200.00	6,195.94	6,163.71	6,136.97	21.98	22.05	-10.02	421.39	13.25	433.02	389.20	43.83	9.881	
6,300.00	6,295.94	6,262.74	6,235.04	22.34	22.41	-9.64	435.16	13.73	446.65	402.11	44.54	10.027	
6,400.00	6,395.94	6,361.76	6,333.10	22.69	22.77	-9.30	448.94	14.21	460.30	415.03	45.26	10.169	
6,500.00	6,495.94	6,460.79	6,431.16	23.05	23.13	-8.97	462.71	14.69	473.96	427.97	45.98	10.307	
6,600.00	6,595.94	6,559.82	6,529.23	23.41	23.49	-8.65	476.48	15.17	487.63	440.93	46.70	10.441	
6,700.00	6,695.94	6,658.84	6,627.29	23.77	23.85	-8.36	490.26	15.65	501.32	453.90	47.42	10.572	
6,800.00	6,795.94	6,757.87	6,725.35	24.13	24.21	-8.08	504.03	16.13	515.02	466.88	48.14	10.698	
6,900.00	6,895.94	6,856.90	6,823.42	24.48	24.58	-7.82	517.80	16.61	528.73	479.87	48.86	10.821	
7,000.00	6,995.94	6,955.92	6,921.48	24.84	24.94	-7.57	531.58	17.10	542.45	492.87	49.58	10.941	
7,100.00	7,095.94	7,054.95	7,019.54	25.20	25.30	-7.33	545.35	17.58	556.19	505.89	50.30	11.057	
7,200.00	7,195.94	7,153.98	7,117.60	25.56	25.66	-7.10	559.12	18.06	569.93	518.91	51.02	11.170	
7,300.00	7,295.94	7,253.00	7,215.67	25.92	26.02	-6.89	572.90	18.54	583.68	531.94	51.74	11.281	
7,400.00	7,395.94	7,352.03	7,313.73	26.27	26.39	-6.68	586.67	19.02	597.43	544.97	52.46	11.388	
7,500.00	7,495.94	7,451.06	7,411.79	26.63	26.75	-6.48	600.44	19.50	611.20	558.02	53.18	11.492	
7,600.00	7,595.94	7,550.08	7,509.86	26.99	27.11	-6.30	614.22	19.98	624.97	571.07	53.90	11.594	
7,700.00	7,695.94	7,649.11	7,607.92	27.35	27.47	-6.12	627.99	20.46	638.75	584.12	54.63	11.693	
7,800.00	7,795.94	7,748.14	7,705.98	27.71	27.84	-5.94	641.76	20.94	652.53	597.18	55.35	11.790	
7,900.00	7,895.94	7,847.16	7,804.05	28.06	28.20	-5.78	655.54	21.42	666.32	610.25	56.07	11.884	
8,000.00	7,995.94	7,946.19	7,902.11	28.42	28.56	-5.62	669.31	21.91	680.11	623.32	56.79	11.976	
8,100.00	8,095.94	8,045.22	8,000.17	28.78	28.93	-5.47	683.09	22.39	693.91	636.40	57.51	12.066	
8,200.00	8,195.94	8,165.43	8,119.44	29.14	29.36	-5.31	698.08	22.91	706.30	647.88	58.42	12.089	
8,300.00	8,295.94	8,287.55	8,241.02	29.50	29.81	-5.19	709.46	23.31	715.56	656.26	59.30	12.066	
8,400.00	8,395.94	8,410.27	8,363.51	29.85	30.25	-5.12	716.98	23.57	721.65	661.51	60.13	12.001	
8,500.00	8,495.94	8,533.36	8,486.54	30.21	30.69	-5.08	720.57	23.70	724.54	663.63	60.91	11.894	
8,600.00	8,595.94	8,642.77	8,595.94	30.57	31.07	-5.08	720.90	23.71	724.81	663.17	61.64	11.759	
8,700.00	8,695.94	8,742.77	8,695.94	30.93	31.43	-5.08	720.90	23.71	724.81	662.46	62.35	11.625	
8,800.00	8,795.94	8,842.77	8,795.94	31.29	31.78	-5.08	720.90	23.71	724.81	661.75	63.06	11.494	
8,900.00	8,895.94	8,942.77	8,895.94	31.65	32.13	-5.08	720.90	23.71	724.81	661.04	63.77	11.366	
9,000.00	8,995.94	9,042.77	8,995.94	32.00	32.49	-5.08	720.90	23.71	724.81	660.32	64.48	11.240	
9,100.00	9,095.94	9,142.77	9,095.94	32.36	32.84	-5.08	720.90	23.71	724.81	659.61	65.19	11.118	
9,200.00	9,195.94	9,243.32	9,196.49	32.72	33.19	-5.09	720.89	23.61	724.80	658.90	65.90	10.998	
9,300.00	9,295.94	9,347.32	9,299.73	33.08	33.54	-5.98	719.42	12.40	724.43	657.83	66.60	10.877	
9,400.00	9,395.93	9,444.51	9,392.90	33.56	33.85	81.82	715.88	-14.63	724.13	656.76	67.37	10.748	
9,500.00	9,494.86	9,535.83	9,475.08	33.90	34.13	79.66	710.74	-53.91	723.34	655.33	68.01	10.636	
9,600.00	9,589.90	9,623.19	9,546.86	34.23	34.39	77.81	704.29	-103.14	721.49	652.91	68.58	10.520	
9,700.00	9,678.18	9,707.30	9,608.07	34.54	34.62	76.27	696.82	-160.23	718.43	649.38	69.05	10.405	
9,800.00	9,757.00	9,788.79	9,658.73	34.83	34.83	75.08	688.54	-223.43	714.03	644.64	69.39	10.290	
9,900.00	9,823.97	9,868.19	9,698.91	35.10	35.02	74.23	679.66	-291.25	708.19	638.56	69.62	10.172	
10,000.00	9,877.06	9,950.00	9,730.02	35.35	35.20	73.68	669.85	-366.20	700.86	631.07	69.80	10.041	
10,100.00	9,914.66	10,022.55	9,748.36	35.57	35.34	73.61	660.74	-435.75	692.02	622.12	69.90	9.901	
10,200.00	9,935.61	10,100.00	9,758.00	35.77	35.49	73.85	650.77	-511.89	681.76	611.72	70.04	9.734	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Mongo 25 Fed Com - Mongo 25 Fed Com 702H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	9,939.80	10,175.78	9,758.16	35.94	35.62	74.23	641.10	-587.03	670.30	600.05	70.25	9.541	
10,400.00	9,938.95	10,257.05	9,756.43	36.14	35.78	73.94	632.56	-667.82	660.37	589.80	70.57	9.357	
10,500.00	9,938.11	10,338.75	9,754.70	36.37	35.97	73.69	626.30	-749.26	653.18	582.23	70.96	9.205	
10,600.00	9,937.26	10,420.74	9,752.96	36.63	36.17	73.50	622.35	-831.14	648.75	577.34	71.41	9.085	
10,700.00	9,936.42	10,502.91	9,751.22	36.92	36.40	73.37	620.74	-913.27	647.06	575.13	71.93	8.996	
10,711.21	9,936.32	10,512.13	9,751.03	36.96	36.43	73.36	620.71	-922.49	647.05	575.05	71.99	8.988	
10,800.00	9,935.57	10,598.61	9,749.20	37.25	36.69	73.26	620.83	-1,008.95	647.34	574.79	72.55	8.923	
10,900.00	9,934.72	10,698.60	9,747.08	37.60	37.03	73.16	621.00	-1,108.92	647.70	574.46	73.23	8.844	
11,000.00	9,933.88	10,798.59	9,744.96	37.99	37.40	73.05	621.18	-1,208.89	648.06	574.08	73.98	8.760	
11,100.00	9,933.03	10,898.59	9,742.85	38.40	37.80	72.94	621.35	-1,308.86	648.42	573.64	74.78	8.671	
11,200.00	9,932.19	10,998.58	9,740.73	38.85	38.22	72.83	621.52	-1,408.83	648.79	573.15	75.64	8.578	
11,300.00	9,931.34	11,098.57	9,738.61	39.32	38.67	72.73	621.69	-1,508.80	649.15	572.61	76.54	8.481	
11,400.00	9,930.50	11,198.56	9,736.50	39.81	39.15	72.62	621.86	-1,608.77	649.52	572.03	77.50	8.381	
11,500.00	9,929.65	11,298.55	9,734.38	40.33	39.65	72.51	622.03	-1,708.73	649.90	571.40	78.50	8.279	
11,600.00	9,928.81	11,398.54	9,732.27	40.88	40.17	72.40	622.20	-1,808.70	650.27	570.72	79.55	8.174	
11,700.00	9,927.96	11,498.52	9,730.15	41.44	40.72	72.30	622.38	-1,908.66	650.65	570.01	80.64	8.068	
11,800.00	9,927.12	11,598.51	9,728.03	42.03	41.29	72.19	622.55	-2,008.63	651.03	569.25	81.78	7.961	
11,900.00	9,926.27	11,698.50	9,725.92	42.64	41.88	72.08	622.73	-2,108.59	651.42	568.46	82.96	7.852	
12,000.00	9,925.42	11,798.49	9,723.80	43.28	42.49	71.98	622.90	-2,208.56	651.80	567.63	84.17	7.744	
12,100.00	9,924.58	11,898.48	9,721.68	43.93	43.12	71.87	623.08	-2,308.52	652.19	566.77	85.43	7.635	
12,200.00	9,923.73	11,998.46	9,719.57	44.60	43.77	71.77	623.25	-2,408.49	652.59	565.88	86.71	7.526	
12,300.00	9,922.89	12,098.45	9,717.45	45.28	44.44	71.66	623.43	-2,508.45	652.98	564.95	88.03	7.417	
12,400.00	9,922.04	12,198.44	9,715.33	45.99	45.13	71.55	623.61	-2,608.42	653.38	564.00	89.39	7.310	
12,500.00	9,921.20	12,298.43	9,713.22	46.71	45.83	71.45	623.79	-2,708.38	653.78	563.02	90.77	7.203	
12,600.00	9,920.35	12,398.41	9,711.10	47.44	46.54	71.34	623.97	-2,808.35	654.19	562.01	92.18	7.097	
12,700.00	9,919.51	12,498.40	9,708.98	48.20	47.27	71.24	624.14	-2,908.31	654.60	560.98	93.62	6.992	
12,800.00	9,918.66	12,598.39	9,706.86	48.96	48.02	71.13	624.32	-3,008.28	655.01	559.92	95.09	6.888	
12,900.00	9,917.82	12,698.38	9,704.75	49.74	48.78	71.03	624.51	-3,108.24	655.42	558.84	96.58	6.786	
13,000.00	9,916.97	12,798.37	9,702.63	50.53	49.55	70.92	624.69	-3,208.21	655.84	557.74	98.09	6.686	
13,100.00	9,916.13	12,898.35	9,700.51	51.33	50.33	70.82	624.87	-3,308.17	656.26	556.63	99.63	6.587	
13,200.00	9,915.28	12,998.34	9,698.40	52.15	51.13	70.71	625.05	-3,408.14	656.68	555.49	101.19	6.490	
13,300.00	9,914.43	13,098.33	9,696.28	52.97	51.93	70.61	625.24	-3,508.10	657.10	554.33	102.77	6.394	
13,400.00	9,913.59	13,198.32	9,694.16	53.81	52.75	70.50	625.42	-3,608.07	657.53	553.16	104.37	6.300	
13,500.00	9,912.74	13,298.30	9,692.04	54.66	53.58	70.40	625.61	-3,708.03	657.96	551.98	105.98	6.208	
13,600.00	9,911.90	13,398.29	9,689.93	55.51	54.42	70.29	625.79	-3,808.00	658.39	550.78	107.62	6.118	
13,700.00	9,911.05	13,498.28	9,687.81	56.38	55.26	70.19	625.98	-3,907.97	658.83	549.56	109.27	6.030	
13,800.00	9,910.21	13,598.27	9,685.69	57.25	56.12	70.09	626.16	-4,007.93	659.27	548.33	110.93	5.943	
13,900.00	9,909.36	13,698.26	9,683.57	58.14	56.98	69.98	626.35	-4,107.90	659.71	547.09	112.61	5.858	
14,000.00	9,908.52	13,798.24	9,681.46	59.03	57.85	69.88	626.54	-4,207.86	660.15	545.84	114.31	5.775	
14,100.00	9,907.67	13,898.24	9,679.34	59.93	58.73	69.78	626.73	-4,307.83	660.60	544.58	116.02	5.694	
14,200.00	9,906.83	13,998.24	9,677.22	60.83	59.62	69.67	626.91	-4,407.81	661.04	543.30	117.74	5.614	
14,300.00	9,905.98	14,098.24	9,675.10	61.75	60.51	69.57	627.10	-4,507.79	661.49	542.02	119.47	5.537	
14,400.00	9,905.13	14,198.24	9,672.99	62.67	61.41	69.47	627.28	-4,607.77	661.94	540.72	121.22	5.461	
14,500.00	9,904.29	14,298.25	9,670.87	63.59	62.32	69.36	627.46	-4,707.75	662.39	539.41	122.98	5.386	
14,600.00	9,903.44	14,398.25	9,668.75	64.52	63.23	69.26	627.64	-4,807.73	662.84	538.09	124.74	5.314	
14,700.00	9,902.60	14,498.25	9,666.64	65.46	64.15	69.16	627.82	-4,907.71	663.29	536.76	126.52	5.242	
14,800.00	9,901.75	14,598.25	9,664.52	66.41	65.08	69.05	628.00	-5,007.69	663.74	535.43	128.31	5.173	
14,900.00	9,900.91	14,698.25	9,662.40	67.35	66.01	68.95	628.17	-5,107.67	664.19	534.08	130.10	5.105	
15,000.00	9,900.06	14,798.26	9,660.29	68.31	66.94	68.85	628.35	-5,207.65	664.64	532.73	131.91	5.039	
15,007.35	9,900.00	14,805.61	9,660.13	68.38	67.01	68.84	628.36	-5,215.00	664.67	532.63	132.04	5.034	

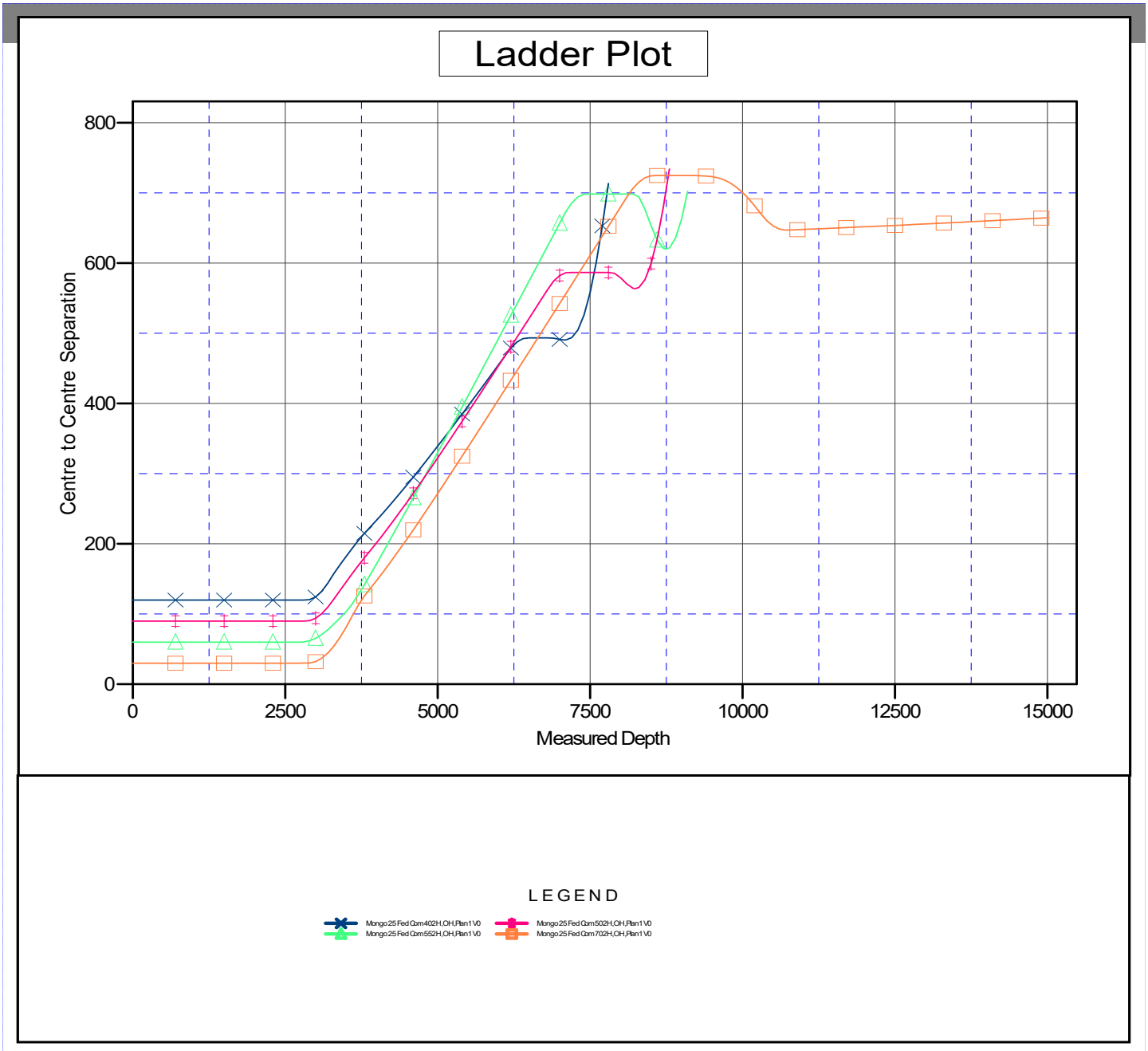
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GL 2925 + 25' KB @ 2950.00usft	Coordinates are relative to: Mongo 25 Fed Com 752H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is -104.333334	Grid Convergence at Surface is: 0.16°



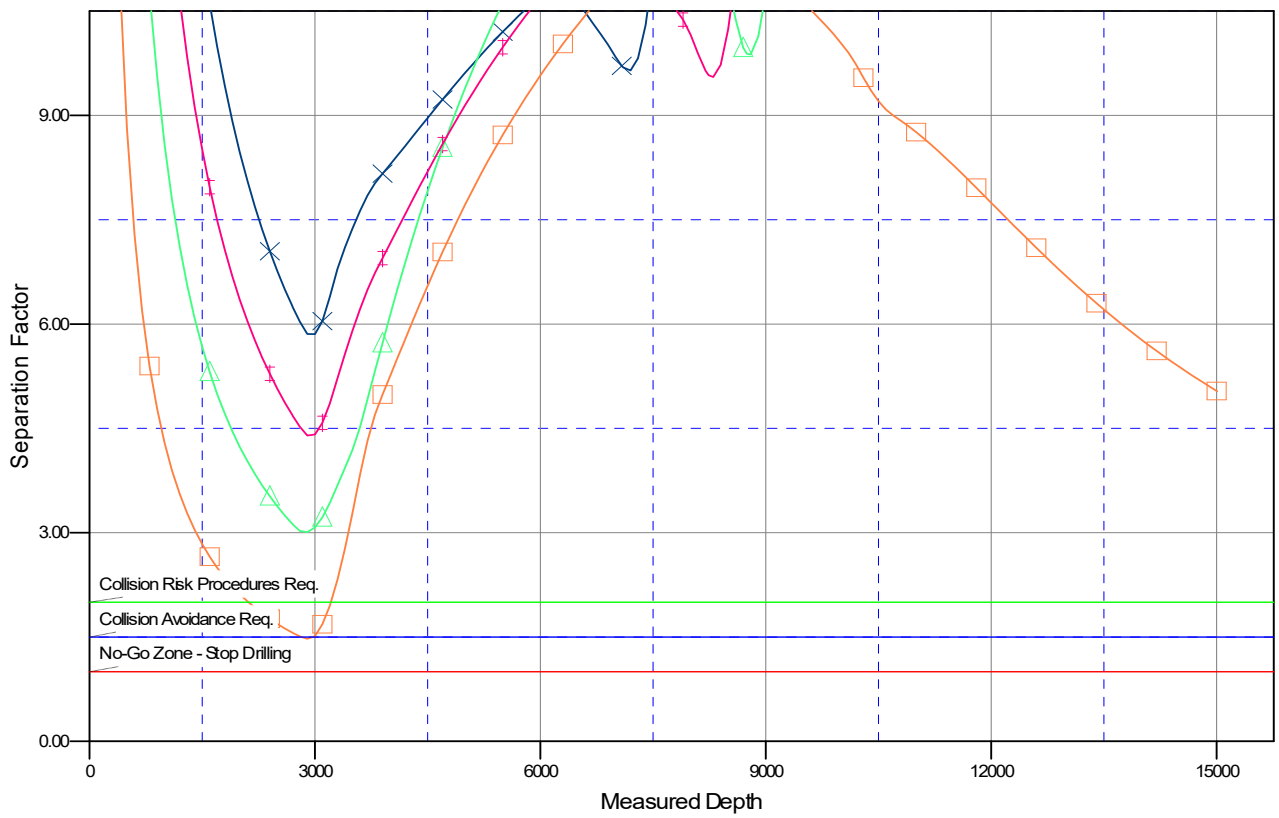
Legacy Directional Drilling

Anticollision Report

Company:	3R Operating, LLC	**Local Co-ordinate Reference:**	Well Mongo 25 Fed Com 752H
Project:	Eddy County, NM (NAD83)	**TVD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Reference Site:	Mongo 25 Fed Com	**MD Reference:**	GL 2925 + 25' KB @ 2950.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Mongo 25 Fed Com 752H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM_WA
Reference Design:	Plan 1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GL 2925 + 25' KB @ 2950.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Mongo 25 Fed Com 752H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.16°



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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

General Information
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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 478627

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 478627
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	6/27/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	6/27/2025