AFMSS

U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

## APD Package Report

Date Printed:

| | |
|---|---|
| APD ID: | Well Status: |
| APD Received Date: | Well Name: |
| Operator: | Well Number: |

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Operator Letter of Designation: 1 file(s)
  -- Well Plat: 1 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 1 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 2 file(s)
  -- Casing Design Assumptions and Worksheet(s): 4 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
  -- Other Facets: 1 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 3 file(s)
  -- New Road Map: 3 file(s)
  -- Attach Well map: 1 file(s)
  -- Production Facilities map: 1 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Well Site Layout Diagram: 4 file(s)
  -- Recontouring attachment: 1 file(s)
  -- Other SUPO Attachment: 1 file(s)

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments
  -- None

Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

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

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-015-56710

| 3a. Address | 3b. Phone No. *(include area code)* | 10. Field and Pool, or Exploratory |
|---|---|---|
| | | |

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

| 14. Distance in miles and direction from nearest town or post office* | 12. County or Parish | 13. State |
|---|---|---|
| | | |

| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No of acres in lease | 17. Spacing Unit dedicated to this well |
|---|---|---|
| | | |

| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed Depth | 20. BLM/BIA Bond No. in file |
|---|---|---|
| | | |

| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approximate date work will start* | 23. Estimated duration |
|---|---|---|
| | | |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

| 25. Signature | Name *(Printed/Typed)* | Date |
|---|---|---|
| | | |

Title

| Approved by *(Signature)* | Name *(Printed/Typed)* | Date |
|---|---|---|
| | | |

| Title | Office |
|---|---|
| | |

Application approval 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.
Conditions of approval, if any, are attached.

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

**Approval Date: 04/28/2025**

## INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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





**Approval Date: 04/28/2025**

## Additional Operator Remarks

### 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 )

## BLM Point of Contact

Name: MARIAH HUGHES
Title: Land Law Examiner
Phone: (575) 234-5972
Email: mhughes@blm.gov

**Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

**PECOS DISTRICT**
**SURFACE USE**
**CONDITIONS OF APPROVAL**

| | |
|---|---|
| OPERATOR'S NAME: | 3R OPERATING LLC |
| LEASE NO.: | NMNM107384 |
| COUNTY: | Eddy |

**Wells:**

**MONGO 25 FED COM 502H**

**MONGO 25 FED COM 503H**

**MONGO 25 FED COM 702H**

**MONGO 25 FED COM 703H**

**MONGO 802H**





**Approval Date: 04/28/2025**

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

## I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

## II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

## III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

## IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

## V. SPECIAL REQUIREMENT(S)

**Watershed:**
The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 24 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

**TANK BATTERY:**
Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

**Cave/Karst:**

**Construction Mitigation**

In order to mitigate the impacts from construction activities on cave and karst resources, the following Conditions of Approval will apply to this APD or project:

**General Construction:**

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize

changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

**Pad Construction:**
- The pad will be constructed and leveled by adding the necessary fill and caliche – no blasting.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

**Road Construction:**
- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

**Drilling Mitigation**
Federal regulations and standard Conditions of Approval applied to all APDs require that adequate measures are taken to prevent contamination to the environment. Due to the extreme sensitivity of the cave and karst resources in this project area, the following additional Conditions of Approval will be added to this APD.

To prevent cave and karst resource contamination the following will be required:

- Closed loop system using steel tanks - all fluids and cuttings will be hauled off-site and disposed of properly at an authorized site
- Rotary drilling with fresh water where cave or karst features are expected to prevent contamination of freshwater aquifers.
- Directional drilling is only allowed at depths greater than 100 feet below the cave occurrence zone to prevent additional impacts resulting from directional drilling.
- Lost circulation zones will be logged and reported in the drilling report so BLM can assess the situation and work with the operator on corrective actions.
- Additional drilling, casing, and cementing procedures to protect cave zones and fresh water aquifers. See drilling COAs.

**Production Mitigation**
In order to mitigate the impacts from production activities and due to the nature of karst terrane, the following Conditions of Approval will apply to this APD:

- Tank battery locations and facilities will be bermed and lined with a 20 mil thick permanent liner that has a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.
- Development and implementation of a leak detection system to provide an early alert to operators when a leak has occurred.
- Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

**Residual and Cumulative Mitigation**
The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be taken to correct the problem to the BLM's approval.

**Plugging and Abandonment Mitigation**
Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

**Range:**

**Cattleguards**
Where a permanent cattlegaurd is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

**Fence Requirement**
Where entry granted across a fence line, the fence must be H-braced or angle iron braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall consult the private surface landowner or the grazing allotment holder prior to cutting any fence(s).

Figure 1. Pipe H-brace specifications

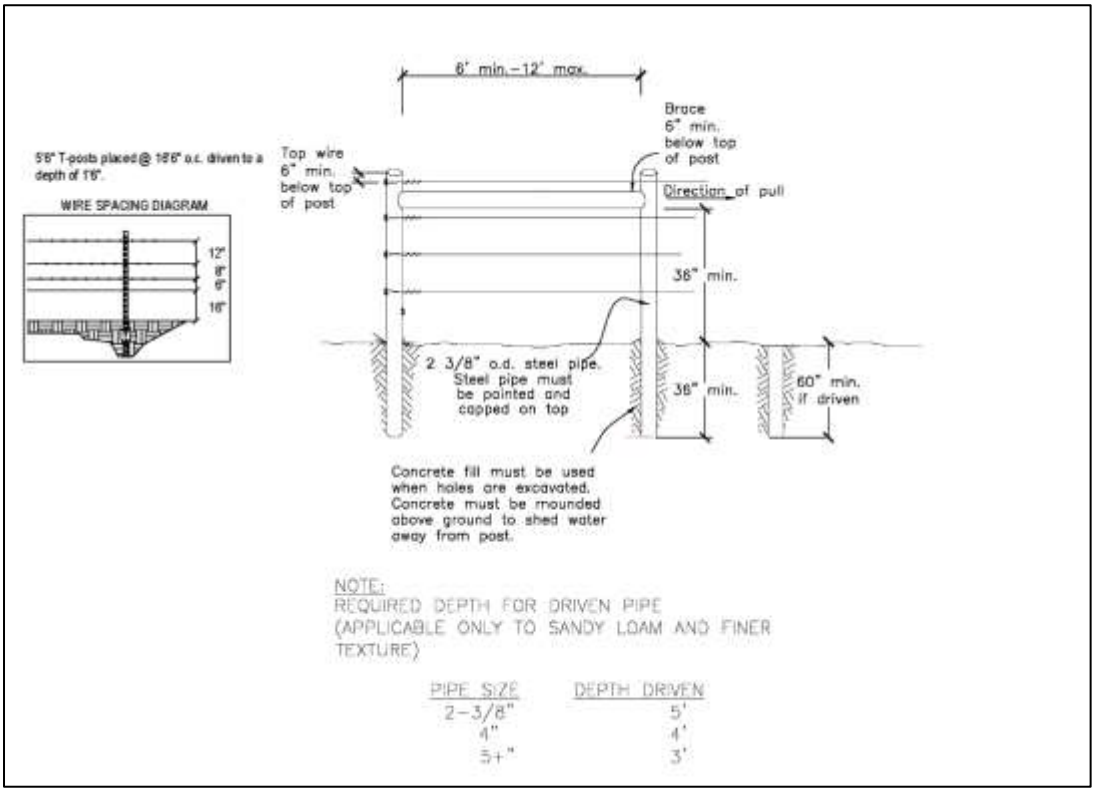
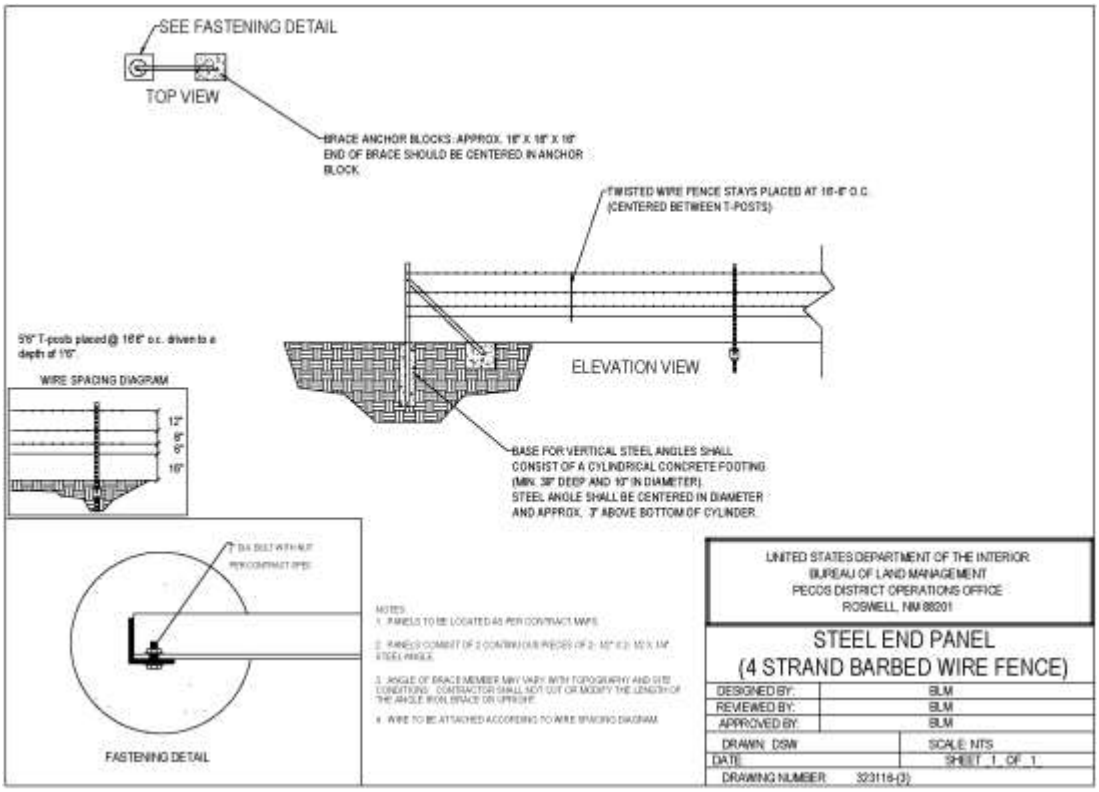



Figure 2. Angle iron brace specifications



**VRM IV:**

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

Short-term mitigation measures include painting all above-ground structures that are not subject to safety requirements (including meter housing) Shale Green, which is a flat non-reflective paint color listed in the BLM Standard Environmental Color Chart (CC-001: June 2013). Long-term mitigation measures include the removal of wells and associated infrastructure following abandonment (end of cost-effective production). Previously impacted areas will be reclaimed by removing structures and caliche pads, returning disturbed areas to natural grade, and revegetating with an approved BLM seed mixture; thereby eliminating visual impacts.

## VI. CONSTRUCTION

### A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

### B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

### C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

### D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

### E. WELL PAD SURFACING

Surfacing of the well pad is not required.





**Approval Date: 04/28/2025**

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

## F. EXCLOSURE FENCING (CELLARS & PITS)

**Exclosure Fencing**
The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

## G. ON LEASE ACCESS ROADS

**Road Width**
The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

**Surfacing**
Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

**Crowning**
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

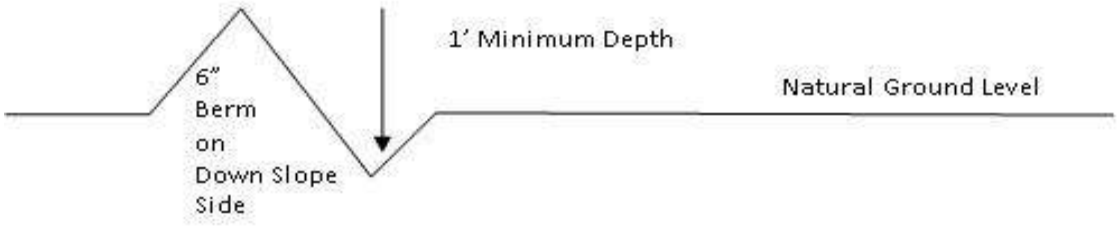
**Ditching**
Ditching shall be required on both sides of the road.

**Turnouts**
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

**Drainage**
Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

## Cross Section of a Typical Lead-off Ditch




All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

### Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$\text{400 foot road with 4\% road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

**Cattle guards**
An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

**Fence Requirement**
Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

**Public Access**
Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

**Construction Steps**

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

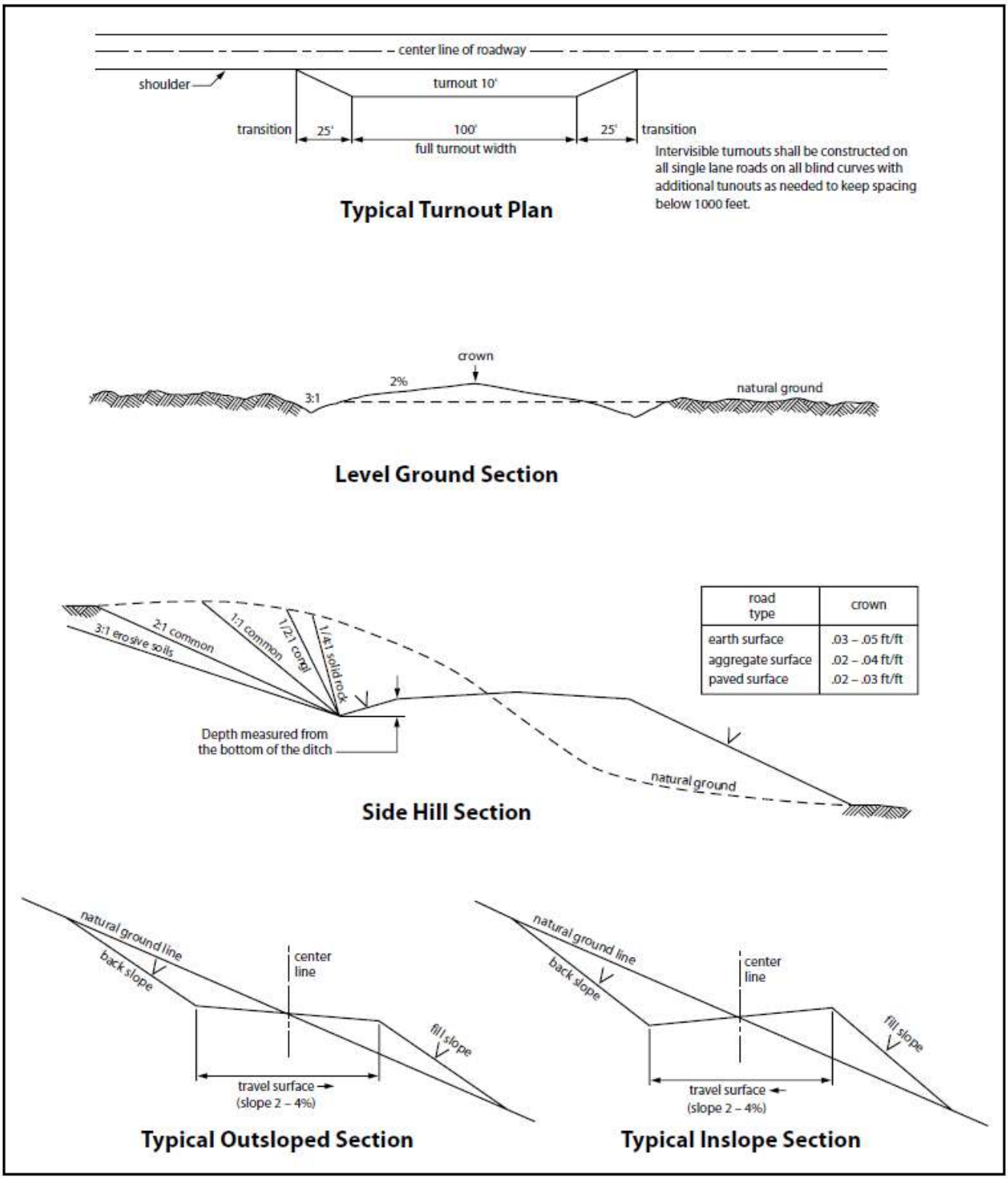



Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.





**Approval Date: 04/28/2025**

## VII. PRODUCTION (POST DRILLING)

### A. WELL STRUCTURES & FACILITIES

**Placement of Production Facilities**
Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

**Exclosure Netting (Open-top Tanks)**
Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

**Chemical and Fuel Secondary Containment and Exclosure Screening**
The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

**Open-Vent Exhaust Stack Exclosures**
The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone*.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

**Containment Structures**
Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

**Painting Requirement**
All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

21. Special Stipulations:

**Wildlife-TX Hornshell:**
Oil and Gas Zone D - CCA Boundary requirements.

- Implement erosion control measures in accordance with the Reasonable and Prudent Practices for Stabilization ("RAPPS")
- Comply with SPCC requirements in accordance with 40 CFR Part 112;
- Comply with the United States Army Corp of Engineers (USACE) Nationwide 12 General Permit, where applicable;
- Utilize technologies (like underground borings for pipelines), where feasible;
- Educate personnel, agents, contractors, and subcontractors about the requirements of conservation measures, COAs, Stips and provide direction in accordance with the Permit.

**Karst:**

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

## VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be

revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

## IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.





**Approval Date: 04/28/2025**

**Seed Mixture 2, for Sandy Sites**

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

| Species | lb/acre |
|---|---|
| Sand dropseed (Sporobolus cryptandrus) | 1.0 |
| Sand love grass (Eragrostis trichodes) | 1.0 |
| Plains bristlegrass (Setaria macrostachya) | 2.0 |

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed





**Approval Date: 04/28/2025**

# PECOS DISTRICT
# DRILLING CONDITIONS OF APPROVAL

| | |
|---|---|
| **OPERATOR'S NAME:** | **3R OPERATING LLC** |
| **WELL NAME & NO.:** | **MONGO 25 FED COM #802H** |
| **LOCATION:** | **30 – 24S – 29E, LOT 2 (2275 FNL, 155 FWL)** |
| **COUNTY:** | Eddy County, New Mexico |

COA

| | | | | |
|---|---|---|---|---|
| **$H_2S$** | ○ No | | ○ Yes | |
| **Potash / WIPP** | ○ None | ○ Secretary | ○ R-111-Q | ☐ Open Annulus |
| | Choose an option (including blank option.) | | | ☐ WIPP |
| **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 | ☐ Casing Clearance | ☐ Pilot Hole | ☐ Break Testing |
| | ☐ Four-String | ☐ Offline Cementing | ☑ Fluid-Filled | |

## 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 **8 hours** or **500 pounds compressive strength**, 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 **15,662 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 dog house 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 (04/07/2025)**

AFMSS

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

# Operator Certification Data Report

04/29/2025

## Operator

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** KALEN MELTON **Signed on:** 11/26/2024

**Title:** PERMITTING SPECIALIST

**Street Address:** 3909 N CLASSEN BLVD

**City:** OKLAHOMA CITY **State:** OK **Zip:** 73118

**Phone:** (405)286-9326

**Email address:** KMELTON@REAGANSMITH.COM

## Field

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**

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

# Application Data
04/29/2025

**APD ID:** 10400102194
**Submission Date:** 11/26/2024
**Operator Name:** 3R OPERATING LLC
**Well Name:** MONGO 25 FED COM
**Well Number:** 802H
**Well Type:** CONVENTIONAL GAS WELL
**Well Work Type:** Drill

Highlighted data reflects the most recent changes
Show Final Text

## Section 1 - General

**APD ID:** 10400102194
**Tie to previous NOS?** N
**Submission Date:** 11/26/2024
**BLM Office:** Carlsbad
**User:** KALEN MELTON
**Title:** PERMITTING SPECIALIST
**Federal/Indian APD:** FED
**Is the first lease penetrated for production Federal or Indian?** FED
**Lease number:** NMNM107373
**Lease Acres:**
**Surface access agreement in place?**
**Allotted?**
**Reservation:**
**Agreement in place?** NO
**Federal or Indian agreement:**
**Agreement number:**
**Agreement name:**
**Keep application confidential?** Y
**Permitting Agent?** YES
**APD Operator:** 3R OPERATING LLC
**Operator letter of**
NM_DOA_Designation_of_Agent_20241119081946.pdf

## Operator Info

**Operator Organization Name:** 3R OPERATING LLC
**Operator Address:** 20405 STATE HIGHWAY 249 STE 820
**Zip:** 77070
**Operator PO Box:**
**Operator City:** HOUSTON
**State:** TX
**Operator Phone:** (432)413-4148
**Operator Internet Address:**

## Section 2 - Well Information

**Well in Master Development Plan?** NO
**Master Development Plan name:**
**Well in Master SUPO?** NO
**Master SUPO name:**
**Well in Master Drilling Plan?** NO
**Master Drilling Plan name:**
**Well Name:** MONGO 25 FED COM
**Well Number:** 802H
**Well API Number:**
**Field/Pool or Exploratory?** Field and Pool
**Field Name:** PURPLE SAGE
**Pool Name:** WOLFCAMP

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Is the proposed well in an area containing other mineral resources?** USEABLE WATER,NATURAL GAS,OIL

**Is the proposed well in a Helium production area?** N **Use Existing Well Pad?** N **New surface disturbance?**

**Type of Well Pad:** MULTIPLE WELL **Multiple Well Pad Name:** Rock Ridge-Mongo **Number:** 1

**Well Class:** HORIZONTAL **Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** CONVENTIONAL GAS WELL

**Describe Well Type:**

**Well sub-Type:** INFILL

**Describe sub-type:**

**Distance to town:** 3 Miles **Distance to nearest well:** 30 FT **Distance to lease line:** 155 FT

**Reservoir well spacing assigned acres Measurement:** 320 Acres

**Well plat:** MONGO_25_FED_COM_802H_20241126133914.pdf

**Well work start Date:** 05/01/2025 **Duration:** 30 DAYS

## Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83 **Vertical Datum:** NAVD88

**Survey number:** **Reference Datum:** GROUND LEVEL

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHL Leg #1 | 2275 | FNL | 155 | FWL | 24S | 29E | 30 | Lot 02 | 32.1895114 | -104.0315098 | EDDY | NEW MEXICO | NEW MEXICO | F | NMNM 107384 | 2925 | 0 | 0 | N |
| KOP Leg #1 | 2275 | FNL | 155 | FWL | 24S | 29E | 30 | Lot 02 | 32.1895114 | -104.0315098 | EDDY | NEW MEXICO | NEW MEXICO | F | NMNM 107384 | -7102 | 10035 | 10027 | N |
| PPP Leg #1-1 | 2000 | FNL | 330 | FEL | 24S | 28E | 25 | Aliquot SENE | 32.190271 | -104.0330873 | EDDY | NEW MEXICO | NEW MEXICO | F | NMNM 107373 | -7675 | 10935 | 10600 | Y |

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPP Leg #1-2 | 2000 | FNL | 1376 | FEL | 24S | 28E | 25 | Aliquot SWNE | 32.1902842 | -104.0364689 | EDDY | NEW MEXICO | NEW MEXICO | F | NMNM 25953 | -7675 | 11981 | 10600 | Y |
| EXIT Leg #1 | 2000 | FNL | 330 | FWL | 24S | 28E | 25 | Aliquot SWNW | 32.1903297 | -104.0483683 | EDDY | NEW MEXICO | NEW MEXICO | S | STATE | -7675 | 15662 | 10600 | Y |
| BHL Leg #1 | 2000 | FNL | 330 | FWL | 24S | 28E | 25 | Aliquot SWNW | 32.1903297 | -104.0483683 | EDDY | NEW MEXICO | NEW MEXICO | S | STATE | -7675 | 15662 | 10600 | Y |

November 18, 2024

Bureau of Land Management
Carlsbad Field Office
620 E Greene St, Carlsbad, NM 88220
Attn: Land Law Examiner

Re: 3R Operating, LLC
Designation of Agent
Crystal N
Mongo
Mongo Ridge
McMuffin
Boudin
Laguna Grande
Lea County, New Mexico

Land Law Examiner:

3R Operating, LLC has contracted with Reagan Smith, Inc. to assist in regulatory compliance associated with the Crystal N, Mongo, Mongo Ridge, McMuffin, Boudin, and Laguna Grande oil & gas projects. Reagan Smith has the authority to act as 3R Operating, LLC's agent to maintain regulatory compliance for the above-named oil & gas wells. This includes the submittal of Applications for Permit to Drill, Communitization Agreements, Designations of Operator, Sundry Notices, Enforcement Actions including Notices of Incompliance, and any other regulatory documents on behalf of 3R Operating, LLC, in order to maintain regulatory compliance with the Bureau of Land Management.

Sincerely,

Brad Grandstaff

Brad Grandstaff
*COO*
3R Operating, LLC

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

**WELL LOCATION INFORMATION**

| API Number | Pool Code | Pool Name | |
|---|---|---|---|
| 30-015-56710 | 98220 | Purple Sage; Wolfcamp | |
| Property Code: 337293 | Property Name: MONGO 25 FED COM | | Well Number: 802H |
| 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 | 2275 NORTH | 155 WEST | 32.1895114°N | 104.0315098°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 | | 2000 NORTH | 330 WEST | 32.1903297°N | 104.0483683°W | EDDY |

| Dedicated Acres | Infill or Defining Well | Defining Well API | Overlapping Spacing Unit (Y/N) | Consolidation Code |
|---|---|---|---|---|
| 320 | | | | |
| Order Numbers. | | | 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 |
|---|---|---|---|---|---|---|---|---|---|
| | 30 | 24 S | 29 E | 2 | 2275 NORTH | 155 WEST | 32.1895114°N | 104.0315098°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 | | 2000 NORTH | 330 EAST | 32.1902710°N | 104.0330873°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 | | 2000 NORTH | 330 WEST | 32.1903297°N | 104.0483683°W | EDDY |

| Unitized Area or Area of Uniform Interest | Spacing Unit Type ☐Horizontal ☐Vertical | Ground Floor Elevation: |
|---|---|---|
| | | |

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.*

Brad Grandstaff — 11/22/2024

Signature — Date

Brad Grandstaff

Printed Name

bgrandstaff@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.*


Signature and Seal of Professional Surveyor

FILIMON F. JARAMILLO

| CertificateNumber | Dateof Survey |
|---|---|
| PLS 12797 | OCTOBER 29, 2024<br>SURVEY NO. 10332 |

*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 802H*
EL. = 2925.0

LEGEND
SECTION LINE
QUARTER LINE
LEASE LINE
WELL PATH

GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
2275' FNL, 155' FWL
N.=432809.78
E.=634706.44
LAT.=32.1895114°N
LONG.=104.0315098°W

KICK OFF POINT
2275' FNL, 155' FWL
N.=432809.78
E.=634706.44
LAT.=32.1895114°N
LONG.=104.0315098°W

FIRST TAKE POINT
2000' FNL, 330' FEL
N.=433084.73
E.=634217.65
LAT.=32.1902710°N
LONG.=104.0330873°W

LAST TAKE POINT
2000' FNL, 330' FWL
N.=433093.24
E.=629490.47
LAT.=32.1903297°N
LONG.=104.0483683°W

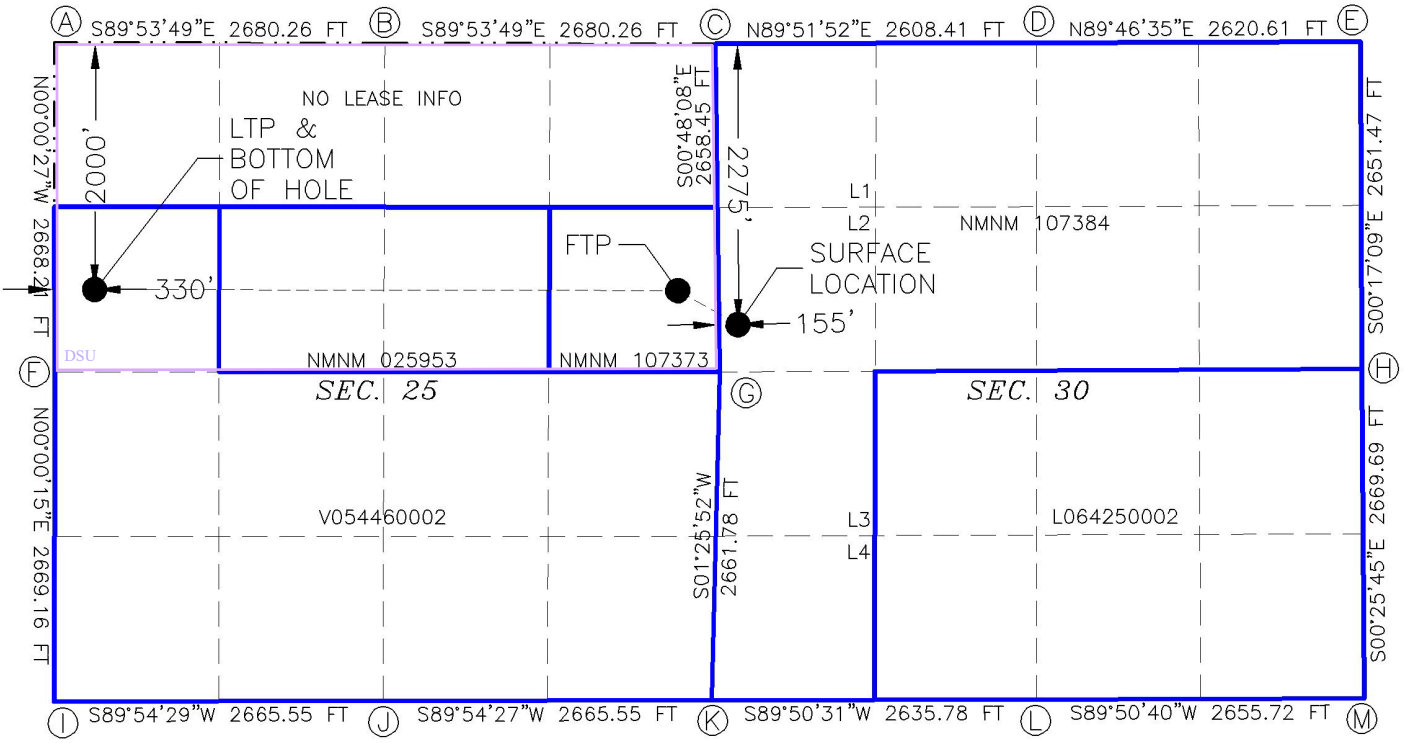
BOTTOM OF HOLE
2000' FNL, 330' FWL
N.=433093.24
E.=629490.47
LAT.=32.1903297°N
LONG.=104.0483683°W

PPP2
2000' FNL, 1376' FEL
N.=433086.62
E.=633171.56
LAT.=32.1902842°N
LONG.=104.0364689°W

PPP3
2000' FNL, 1337' FWL
N.=433091.43
E.=630497.41
LAT.=32.1903174°N
LONG.=104.0451132°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 |



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

# Drilling Plan Data Report
04/29/2025

**APD ID:** 10400102194
**Submission Date:** 11/26/2024
**Operator Name:** 3R OPERATING LLC
**Well Name:** MONGO 25 FED COM
**Well Number:** 802H
**Well Type:** CONVENTIONAL GAS WELL
**Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies | Mineral Resources | Producing Formatio |
|---|---|---|---|---|---|---|---|
| 15512333 | RUSTLER | 2925 | 0 | 0 | ANHYDRITE | USEABLE WATER | N |
| 15512324 | SALADO | 2315 | 610 | 610 | SALT | NONE | N |
| 15512325 | CASTILE | 1750 | 1175 | 1175 | LIMESTONE | NONE | N |
| 15512326 | LAMAR | 230 | 2695 | 2696 | LIMESTONE | NONE | N |
| 15512327 | DELAWARE | 205 | 2720 | 2721 | SANDSTONE | NONE | N |
| 15512328 | BONE SPRING | -3500 | 6425 | 6431 | LIMESTONE | NATURAL GAS, OIL | N |
| 15512329 | BONE SPRING 1ST | -4455 | 7380 | 7388 | SANDSTONE | NATURAL GAS, OIL | N |
| 15512330 | BONE SPRING 2ND | -5260 | 8185 | 8193 | SANDSTONE | NATURAL GAS, OIL | N |
| 15512331 | BONE SPRING 3RD | -6345 | 9270 | 9278 | SANDSTONE | NATURAL GAS, OIL | N |
| 15512332 | WOLFCAMP | -6730 | 9655 | 9663 | OTHER : X/Y Carbonate | NATURAL GAS, OIL | Y |

## Section 2 - Blowout Prevention

**Pressure Rating (PSI):** 5M
**Rating Depth:** 12000

**Equipment:** Ten thousand (10M) psi Blind Rams and Pipe Rams and a five thousand (5M) psi Annular Preventer will be installed on all casing. Per 5M system requirements, two (2) chokes will be used with at least one choke being remotely controlled from the rig floor.
**Requesting Variance?** YES

**Variance request:** (1) Variance requested to use a flex hose in place of a rigid line connection from BOP to choke manifold. Please see attachment for typical flex hose. (2) Variance requested to use multibowl wellhead. Please see attachment for typical multibowl wellhead.
**Testing Procedure:** A third party testing company will conduct pressure tests and record prior to drilling out below casing shoes. 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. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. The Annular Preventer will be tested to 50 percent of rated working pressure.

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer. In addition, the BOPE 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.

**Choke Diagram Attachment:**

CHOKE_HOSE_M14945_20250122131516.pdf

**BOP Diagram Attachment:**

BOP_and_Choke_Manifold_20241119145251.pdf

Ridgerunner_Multibowl_20250122131522.pdf

## Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SURFACE | 17.5 | 13.375 | NEW | API | N | 0 | 350 | 0 | 350 | 2925 | 2575 | 350 | H-40 | 48 | ST&C | 4.92 | 11.05 | DRY | 19.17 | DRY | 32.2 |
| 2 | INTERMEDIATE | 12.25 | 9.625 | NEW | API | N | 0 | 9900 | 0 | 9900 | 3347 | -6975 | 9900 | P-110 | 40 | BUTT | 1.31 | 1.49 | DRY | 3.2 | DRY | 3.18 |
| 3 | PRODUCTION | 8.75 | 5.5 | NEW | API | N | 0 | 15662 | 0 | 10600 | 3347 | -7675 | 15662 | P-110 | 20 | BUTT | 1.61 | 1.83 | DRY | 3.15 | DRY | 3.02 |

**Casing Attachments**

**Casing ID:** 1 **String** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

z_Mongo_802H_Drilling_Plan_1_22_25_20250213091731.pdf

Casing_Calculator__Mongo_25_Fed_Com_802H_20250213091735.pdf

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Casing Attachments**

**Casing ID:** 2 **String** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Casing_Calculator__Mongo_25_Fed_Com_802H_20241126135802.pdf

**Casing ID:** 3 **String** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Casing_Calculator__Mongo_25_Fed_Com_802H_20241126135857.pdf

## Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCTION | Lead | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRODUCTION | Tail | | 9400 | 15662 | 1185 | 1.54 | 13.5 | 1825 | 15 | 50% Class H + 50% B POZ | 6% Gell + 5% Slat + .2% SMS + .55% FR-5 + .4% FL-24 + 0.005gps NoFoam V1A |
| SURFACE | Lead | | 0 | 50 | 39 | 1.79 | 13.5 | 70 | 100 | Class C | 4% Gel + 5% Salt +0.2% SA-1 + 0.25pps Pol-E Flake + 0.005gps NOFoam V1A |

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SURFACE | Tail | | 50 | 350 | 314 | 1.33 | 14.8 | 418 | 100 | Class C | 1% calcium chloride + 0.005gps NoFoam V1A |
| INTERMEDIATE | Lead | | 0 | 9400 | 2890 | 1.53 | 12.7 | 4422 | 50 | 40% Class C + 60% POZ | 5% Salt + 1% SMS + 2% CS-9 + 0.1% R-1300 + 0.25pps Pol-E Flake + 0.005gps NoFoam V1A |
| INTERMEDIATE | Tail | | 9400 | 9900 | 177 | 1.33 | 14.8 | 235 | 50 | Class C | 1% calcium chloride + 0.005gps NoFoam V1A |

## Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

**Description of the equipment for the circulating system in accordance with 43 CFR 3172:**

**Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:**

**Describe what will be on location to control well or mitigate other conditions:** 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). Sufficient materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

**Describe the mud monitoring system utilized:** The mud system will run as a closed loop system. PVT system will be in place throughout the well, as well as visual checks.

## Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 350 | WATER-BASED MUD | 8.4 | 9.2 | | | | | | | |
| 350 | 9900 | SALT SATURATED | 10 | 10.3 | | | | | | | |
| 9900 | 15662 | OIL-BASED MUD | 12 | 12.5 | | | | | | | |

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

## Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

The operator will comply with the BLM's logging requirements as stated in the COAs.

**List of open and cased hole logs run in the well:**

GAMMA RAY LOG,SPONTANEOUS POTENTIAL LOG,MEASUREMENT WHILE DRILLING,CEMENT BOND LOG,MUD LOG/GEOLOGICAL LITHOLOGY LOG,

**Coring operation description for the well:**

None planned

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 6890 **Anticipated Surface Pressure:** 4557

**Anticipated Bottom Hole Temperature(F):** 180

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geoharzards description:**

**Contingency Plans geohazards**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations**

3R_H2S_Plan_Eddy_20250122131801.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

03_Mongo_25_Fed_Com_802H_APD_Rev01_RPT_20241126140207.pdf

03_Mongo_25_Fed_Com_802H_APD_Rev01_WM_20241126140213.pdf

**Other proposed operations facets description:**

Well Control Plan attached. Additionally, per 43 CFR 3162.3-1(d)(4), only oil wells require a gas waste minimization plan as part of a submitted APD. This APD is for a gas well and should not require a separate gas management plan attachment.

**Other proposed operations facets attachment:**

Well_Control_Plan_Mongo_20241126141301.pdf

**Other Variance attachment:**

**BLACK GOLD®**

**GATES ENGINEERING & SERVICES NORTH AMERICA**
**7603 Prairie Oak Dr. Suite 190**
**Houston, TX. 77086**

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**FAX: +1 (281) 602-4147**
**EMAIL: gesna.quality@gates.com**
**WEB: gates.com/oilandgas**

# CERTIFICATE OF CONFORMANCE

This is to verify that all Parts and/or Materials included in this shipment have been manufactured and/or processed in Conformance with applicable drawings and specifications, and that Records of Required Tests are on file and subject to examination. The following items were assembled at **Gates Engineering & Services North America** facilities in Houston, TX, USA. This hose assembly was designed and manufactured to meet requirements of API Spec 16C, 3rd Edition.

| | |
|---|---|
| **CUSTOMER:** | A-7 AUSTIN INC DBA AUSTIN HOSE |
| **CUSTOMER P.O.#:** | 00620920 (MENA REF# 01LB10050, 01-012870, HOSE BATCH NO. 120463-07/20) |
| **CUSTOMER P/N:** | 16C3.035.0CK4116FX-FLTSC/S |
| **PART DESCRIPTION:** | 3" X 35' GATES API 16C FSL3 TEMP B CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FIXED X SWIVEL H2S SUITED FLANGE ENDS WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS ATTACHED |
| **SALES ORDER #:** | 522832 |
| **QUANTITY:** | 1 |
| **SERIAL #:** | F-041522-1 |

**SIGNATURE:** _____

**TITLE:** QUALITY ASSURANCE

**DATE:** 8/15/2022

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GATES ENGINEERING & SERVICES FZCO
MENA HEADQUARTERS
JEBEL ALI FREE ZONE, P. O. BOX 61046
DUBAI, UNITED ARAB EMIRATES
T: +971 4 886 1414
F: +971 4 886 1413
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المقر الرئيسي للشرق الأوسط و شمال أفريقيا
جبل علي المنطقة الحرة، ص. ب. ٦١٠٤٦
دبي، الامارات العربية المتحدة
هاتف: ٨٨٦ ١٤١٤ ٤ ٩٧١+
فاكس: ٨٨٦ ١٤١٣ ٤ ٩٧١+
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# PRESSURE TEST CERTIFICATE

| | | | |
|---|---|---|---|
| Certificate # | 01-012870 | Test Date | 15-Apr-2022 |
| Customer Name | GATES E & S NORTH AMERICA INC | | |
| Customer Ref. # | 1786392/ 2 | Gates Ref. # | 01CCLBSOA-10007 |
| Gates Job # | 01LB10050 | | |
| Product Description | 3" X 35' GATES API 16C FSL3 TEMP B CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FIXED X SWIVEL H2S SUITED FLANGE ENDS WITH BX 155 RING GROOVE | | |
| Part # | RAB000884-23 | Quantity | 1 |
| Assembly Code / Serial No. | F-041522-1 | Hose Batch No. | 120463-07/20 |
| Working Pressure | 10000 PSI | Test Pressure | 15000.0 PSI |
| Medium | Water | Duration | 1 HOUR |
| Ref. Specifications | | | |
| Observation | No Leakage or Pressure Drop observed under testing condition. | | |

Gates Engineering & Services certifies that the hose has been assembled, inspected and tested as per Gates Technical Specification. The hose assembly has successfully passed the 60 minutes hydrostatic test as per as per API Spec 16C standard, 3rd edition, March 2021.

| | | | |
|---|---|---|---|
| Pr. Gauage Sr.# | 288223022 | Calibrn. Exp.Date | 13-Jul-2022 |
| Chart Recorder Sr.# | 11.02117.1-01 | Calibrn. Exp.Date | 13-Jul-2022 |

| Reviewed By | | Witnessed By |
|---|---|---|
| Clifford G | GATES ENGINEERING & SERVICES FZCO P. O. BOX 61046, JEBEL ALI, DUBAI, UAE | Siva Mahalingam |
| Supervisor / 15-Apr-2022 | | Operations / Quality Lead /15-Apr-2022 |

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المقر الرئيسي للشرق الأوسط و شمال أفريقيا
جبل علي المنطقة الحرة، ص. ب. ٦١٠٤٦
دبي، الامارات العربية المتحدة
هاتف: ٨٨٦ ١٤١٤ ٤ ٩٧١+
فاكس: ٨٨٦ ١٤١٣ ٤ ٩٧١+
GATES.COM

# CERTIFICATE OF CONFORMANCE

| | | | |
|---|---|---|---|
| Certificate # | 01-012870 | Date | 15-Apr-2022 |
| Customer Name | GATES E & S NORTH AMERICA INC | | |
| Customer Ref. # | 1786392/ 2 | Gates Ref. # | 01CCLBSOA-10007 |

Gates Engineering & Services certifies that the hose has been assembled, inspected and tested as per Gates Technical Specification. The hose assembly has successfully passed the 60 minutes hydrostatic test as per as per API Spec 16C standard, 3rd edition, March 2021.

| Item Code | Product Description | Quantity |
|---|---|---|
| RNB-30E-16C-4F3T2-FG | 3" X 35' GATES API 16C FSL3 TEMP B CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FIXED X SWIVEL H2S SUITED FLANGE ENDS WITH BX 155 RING GROOVE<br>Hose Batch No. 120463-07/20<br>Assembly Code / Serial No. F-041522-1<br>Gates Job # 01LB10050 | 1 |

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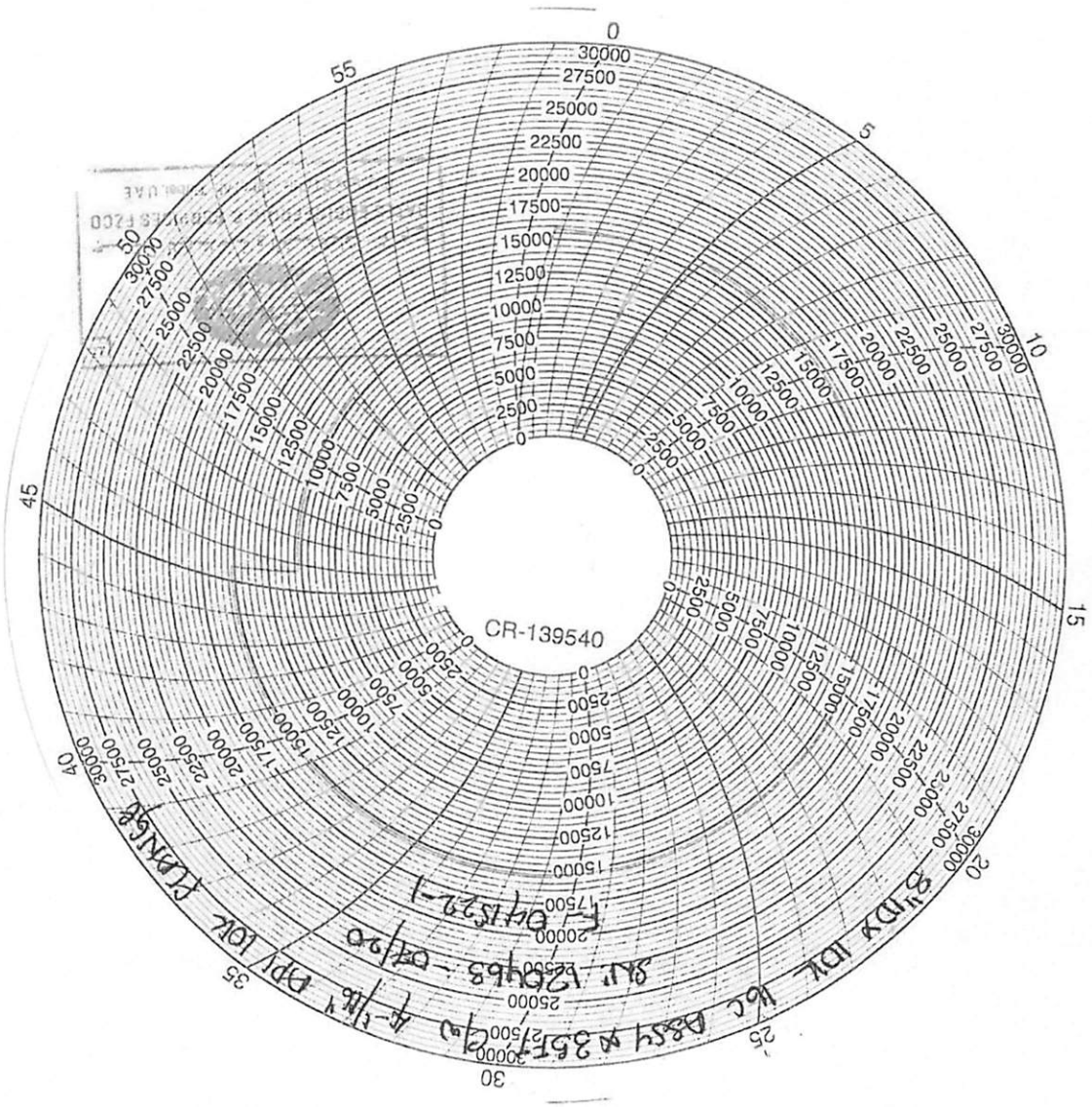
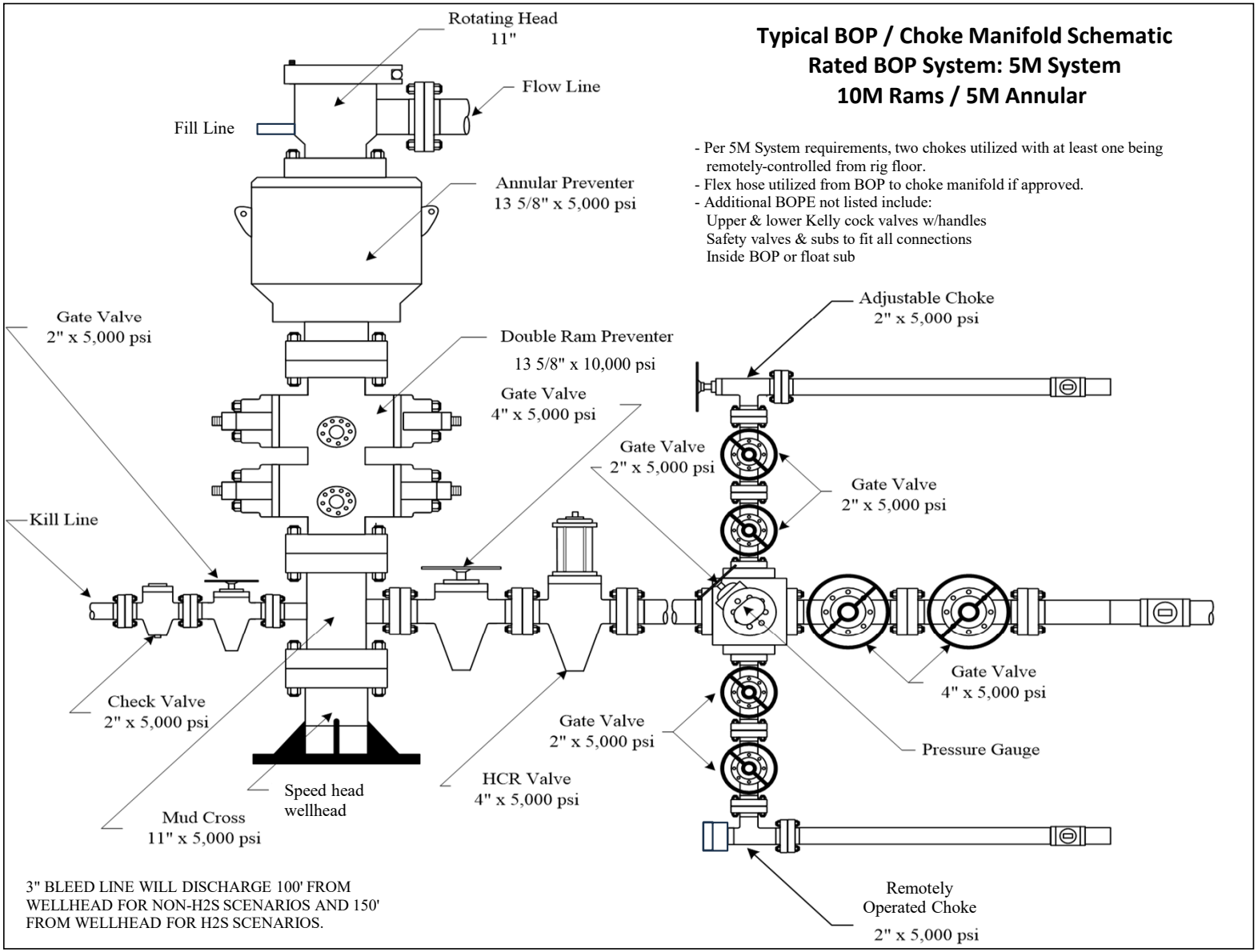
GATES ENGINEERING & SERVICES FZCO
P. O. BOX 61046, JEBEL ALI, DUBAI, UAE

15-Apr-2022
Date

Sajid Rasheed
QHSE Manager

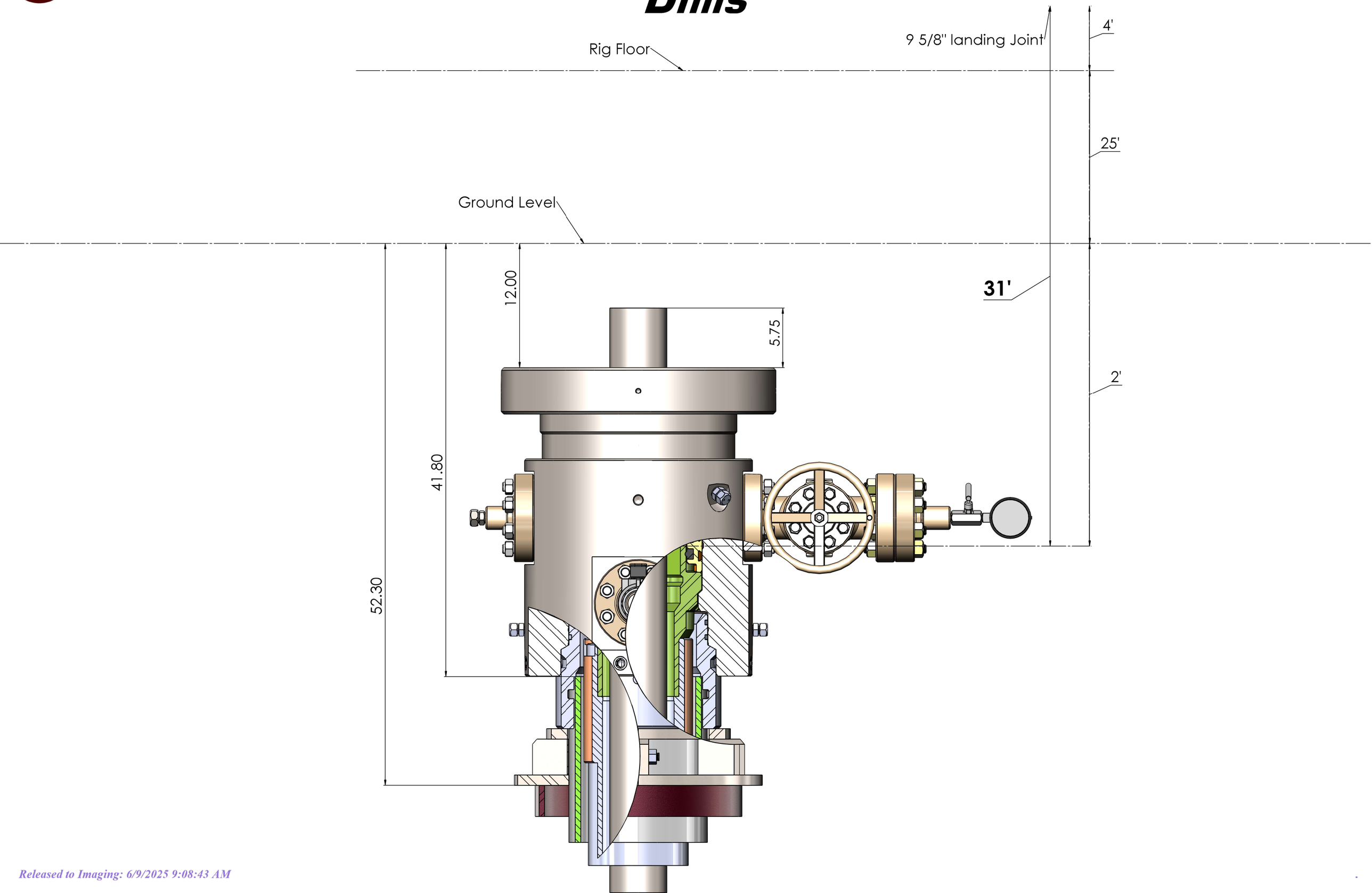

CR-139540



ATLAS

# 13 5/8" 5k Multi-Lock Dims

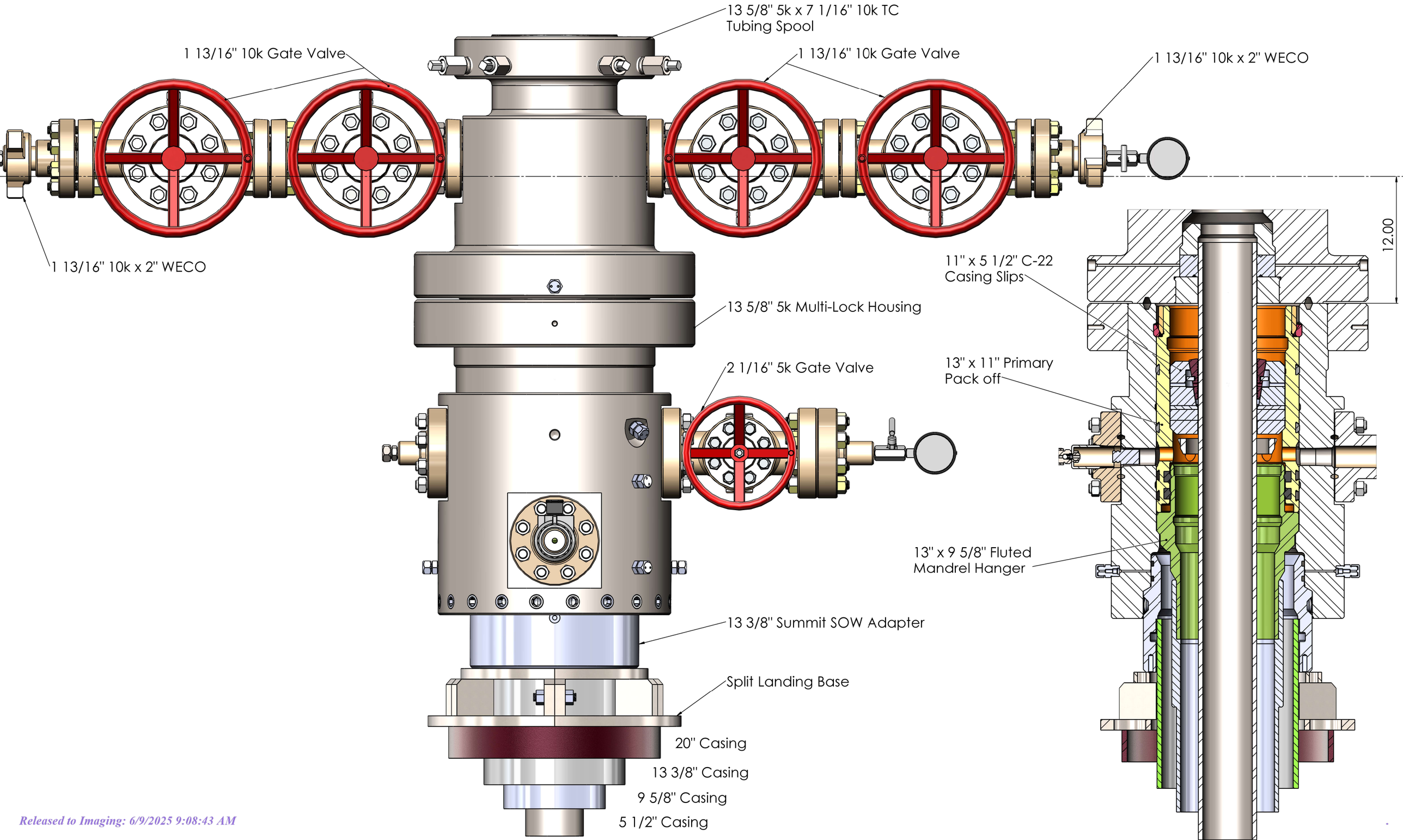
3R Operating, LLC



# 13 5/8" 5k Multi-Lock

ATLAS

3R Operating, LLC



# Drilling Plan

## Operator

3R Operating, LLC

## Project Name

**MONGO 25 FED COM 802H**

SHL: 2275' FNL & 155' FWL of Section 30-24S-29E, Eddy County, NM

BHL: 2000' FNL & 330' FWL of Section 25-24S-28E, Eddy County, NM

## Prepared By

Reagan Smith, Inc.

## Submitted To

Bureau of Land Management - Carlsbad Field Office

Please address any questions, inquiries, or deficiency statements to
Scott St. John and Monica Smith Griffin at the address below:

Reagan Smith
3909 N. Classen Blvd.
Oklahoma City, OK 73118
(405) 286-9326

## 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):** 10,600
**Total Measured Depth (ft):** 15,662
**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.* | 15,662 | 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.* | 10,600 | 15,662 | 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 | 418 | 314 |

**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 | 4,422 | 2,890 |
| *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. Tail* | 9,400 | 15,662 | 13.50 | 1.54 | 15 | 1,825 | 1,185 |

**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 | Brine | 10.3 | 10 | 28-30 | 0.75 | NC |
| *Prod.* | 9,900 | 15,662 | 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 | 3.20 |
| *Prod.* | 1.83 | 1.61 | 3.02 | 3.15 |

## 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 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 | BTC | 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' | 15,662' | 10,600' | 5 1/2" | 20 | P-110 | BTC | New | 12.5 | 12640 | 1.83 | 11080 | 1.61 | 667,000 | 212,000 | 3.15 | 641,000 | 212,000 | 3.02 |

**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 |

**Casing Program:** **RRR-Mongo 25 Fed Com 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 | BTC | 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' | 15,662' | 10,600' | 5 1/2" | 20 | P-110 | BTC | New | 12.5 | 12640 | 1.83 | 11080 | 1.61 | 667,000 | 212,000 | 3.15 | 641,000 | 212,000 | 3.02 |

**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 |

**Casing Program:** **RRR-Mongo 25 Fed Com 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 | BTC | 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' | 15,662' | 10,600' | 5 1/2" | 20 | P-110 | BTC | New | 12.5 | 12640 | 1.83 | 11080 | 1.61 | 667,000 | 212,000 | 3.15 | 641,000 | 212,000 | 3.02 |

**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**
**Ridge Runner Resources, LLC**

1004 N . Big Spring St., Suite 325

Midland, TX 79701

# H2S Contingency Plan

# Eddy County, NM

**Escape**

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crew should then block entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are NO homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'
100 ppm H2S concentration shall trigger activation of this plan

**Emergency Procedures**

In the event of a release of gas containing H2S, the first responder(s) must:

- « Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- « Evacuate any public places encompassed by the 100 ppm ROE.
- « Be equipped with H2S monitors and air packs in order to control the release.
- « Use the "buddy system" to ensure no injuries occur during the response.
- « Take precautions to avoid personal injury during this operation.
- « Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- « Have received training

  in the: Detection of

  H2S, and

  Measures for protection against the gas,

  Equipment used for protection and emergency response.

**Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (S02). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

**Characteristics of H2S and SO,**

| Common Name | Chemical Formula | Specific Gravity | Threshold Limit | Hazardous Limit | Lethal Concentration |
|---|---|---|---|---|---|
| Hydrogen Sulfide | H2S | 1.189 Air=1 | 10 ppm | 100 ppm/hr | 600 ppm |
| Sulfur Dioxide | SO2 | 2.21 Air=1 | 2 ppm | N/A | 1000 ppm |

## Contacting Authorities

3 Bear Field Services personnel must liaise with local and state agencies to ensure **a** proper response to a major release. Additionally, the OCD must be notified of the release as soon **as** possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to sit e. The following call list of essential and potential responders has been prepared for use during a release. 3 Bear Field Services, LLC response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMERP).

## Hydrogen Sulfide Drilling Operations Plan

1. All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
   A. Characteristics of H2S
   B. Physical effects and hazards
   C. Principal and operation of H2S detectors, warning system and briefing areas.
   D. Evacuation procedure, routes and first aid.
   E. Proper use of safety equipment & life support systems
   F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30-minute pressure demand air packs.

2. H2S Detection and Alarm Systems:
   a. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may play placed as deemed necessary.
   b. An audio alarm system will be installed on the derrick floor and in the top doghouse.

3. Windsock and/or wind streamers:
   a. Windsock at mudpit area should be high enough to be visible.
   b. Windsock on the rig floor and/ or top doghouse should be high enough to be visible.

4. Condition Flags and Signs
   a. Warning sign on access road to location.
   b. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H2S present in dangerous concentration). Only H2S trained and certified personnel

admitted to location.

5. Well control equipment:
   a. See exhibit BOP and Choke Diagrams

6. Communication:
   a. While working under masks chalkboards will be used for communication.
   b. Hand signals will be used where chalk board is inappropriate.
   c. Two-way radio will be used to communicate off location in case of emergency help is required. In most cases, cellular telephones will be available at most drilling foreman's trailer or living quarters.

7. Drill stem Testing:
   No DSTs are planned at this time.

8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
9. If H25 is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

**Emergency Assistance Telephone List**

**Ridge Runner Resources, LLC**

| | | |
|---|---|---|
| Ridge Runner Resources, LLC | Office: | (432)686-2973 |
| CEO-Brian Cassens | Office: | (817)953-0480 |
| Drilling Superintendent-Russell Simons | Cell: | (830)285-7501 |
| Production Superintendent-Paul Martinez | Cell: | (325)206-1722 |

**Public Safety Numbers**

| | | |
|---|---|---|
| Eddy County Sheriff's Department | Number: | 575-887-7551 |
| Eddy County Fire & Rescue | Number: | 575-628-5450 |
| Carlsbad Police Department | Number: | 575-885-2111 |
| Carlsbad Fire Department | Number: | 575-885-3125 |
| Hospital – Carlsbad Medical Center | Number: | 575-887-4100 |
| Trans Aero Medevac | Number: | 844-435-4911 |
| NMDOT District 2 – Roswell | Number: | 575-840-3035 |
| NM OCD Dist. 2 – Artesia | Number: | 575-626-0830 |
| BLM Pecos District Office – Roswell | Number: | 575-627-0272 |
| BLM Carlsbad Field Office | Number: | 575-234-5972 |
| BLM Hobbs Field Station | Number: | 575-393-3612 |
| BLM CFO/Eddy Co. PET On-Call | Number: | 575-361-2822 |

# 3R Operating LLC

**Eddy County_NM (N83-NME)**
**Mongo 25**
**03_Mongo 25 Fed Com 802H - Slot (03) Mongo 25 Fed Com 802H**

**802H**

**Plan: APD-Rev01**

# Standard Planning Report

**24 November, 2024**

3R Operating, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | TZ USA 17.2 | **Local Co-ordinate Reference:** | Well 03_Mongo 25 Fed Com 802H - Slot (03) Mongo 25 Fed Com 802H |
| **Company:** | 3R Operating LLC | **TVD Reference:** | 2925+25 @ 2950.00usft |
| **Project:** | Eddy County_NM (N83-NME) | **MD Reference:** | 2925+25 @ 2950.00usft |
| **Site:** | Mongo 25 | **North Reference:** | Grid |
| **Well:** | 03_Mongo 25 Fed Com 802H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | 802H | | |
| **Design:** | APD-Rev01 | | |

**Project** Eddy County_NM (N83-NME)

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

**Site** Mongo 25

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 432,869.77 usft | **Latitude:** | 32.18967634 |
| **From:** | Map | **Easting:** | 634,705.58 usft | **Longitude:** | -104.03151200 |
| **Position Uncertainty:** | 0.00 usft | **Slot Radius:** | 13-3/16 " | | |

**Well** 03_Mongo 25 Fed Com 802H - Slot (03) Mongo 25 Fed Com 802H

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.00 usft | **Northing:** | 432,809.78 usft | **Latitude:** | 32.18951142 |
| | **+E/-W** | 0.00 usft | **Easting:** | 634,706.44 usft | **Longitude:** | -104.03150976 |
| **Position Uncertainty** | | 0.00 usft | **Wellhead Elevation:** | usft | **Ground Level:** | 2,925.00 usft |
| **Grid Convergence:** | | 0.16 ° | | | | |

**Wellbore** 802H

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2020 | 11/21/2024 | 6.35 | 59.69 | 47,073.22518277 |

**Design** APD-Rev01

**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** 11/24/2024

| | Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.00 | 15,661.91 | APD-Rev01 (802H) | OWSG MWD Rev 5 | |
| | | | | OWSG MWD - Standard | |

3R Operating, LLC

Planning Report

| | | | |
|---|---|---|---|
| **Database:** | TZ USA 17.2 | **Local Co-ordinate Reference:** | Well 03_Mongo 25 Fed Com 802H - Slot (03) Mongo 25 Fed Com 802H |
| **Company:** | 3R Operating LLC | **TVD Reference:** | 2925+25 @ 2950.00usft |
| **Project:** | Eddy County_NM (N83-NME) | **MD Reference:** | 2925+25 @ 2950.00usft |
| **Site:** | Mongo 25 | **North Reference:** | Grid |
| **Well:** | 03_Mongo 25 Fed Com 802H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | 802H | | |
| **Design:** | APD-Rev01 | | |

**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 | |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,206.59 | 3.10 | 17.09 | 2,206.49 | 5.34 | 1.64 | 1.50 | 1.50 | 0.00 | 17.09 | |
| 7,301.06 | 3.10 | 17.09 | 7,293.51 | 268.58 | 82.56 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,507.65 | 0.00 | 0.00 | 7,500.00 | 273.92 | 84.20 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 10,034.69 | 0.00 | 0.00 | 10,027.04 | 273.92 | 84.20 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10,934.69 | 90.00 | 270.10 | 10,600.00 | 274.95 | -488.76 | 10.00 | 10.00 | -9.99 | 270.10 | |
| 11,980.82 | 90.00 | 270.10 | 10,600.00 | 276.84 | -1,534.88 | 0.00 | 0.00 | 0.00 | 0.00 | 02-PP2(MGFC-802H) |
| 14,654.97 | 90.00 | 270.10 | 10,600.00 | 281.65 | -4,209.03 | 0.00 | 0.00 | 0.00 | 0.00 | 03-PP3(MGFC-802H) |
| 15,661.91 | 90.00 | 270.10 | 10,600.00 | 283.46 | -5,215.97 | 0.00 | 0.00 | 0.00 | 0.00 | 04-PBHL-LTP(MGFC- |

3R Operating, LLC

Planning Report

| | | | |
|---|---|---|---|
| **Database:** | TZ USA 17.2 | **Local Co-ordinate Reference:** | Well 03_Mongo 25 Fed Com 802H - Slot (03) Mongo 25 Fed Com 802H |
| **Company:** | 3R Operating LLC | **TVD Reference:** | 2925+25 @ 2950.00usft |
| **Project:** | Eddy County_NM (N83-NME) | **MD Reference:** | 2925+25 @ 2950.00usft |
| **Site:** | Mongo 25 | **North Reference:** | Grid |
| **Well:** | 03_Mongo 25 Fed Com 802H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | 802H | | |
| **Design:** | APD-Rev01 | | |

**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 |
| **Rustler** | | | | | | | | | |
| 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 |
| 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 | 1.50 | 17.09 | 2,099.99 | 1.25 | 0.38 | -0.38 | 1.50 | 1.50 | 0.00 |
| 2,206.59 | 3.10 | 17.09 | 2,206.49 | 5.34 | 1.64 | -1.63 | 1.50 | 1.50 | 0.00 |
| 2,300.00 | 3.10 | 17.09 | 2,299.76 | 10.17 | 3.12 | -3.11 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 3.10 | 17.09 | 2,399.62 | 15.33 | 4.71 | -4.69 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 3.10 | 17.09 | 2,499.47 | 20.50 | 6.30 | -6.27 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 3.10 | 17.09 | 2,599.32 | 25.67 | 7.89 | -7.84 | 0.00 | 0.00 | 0.00 |
| 2,695.82 | 3.10 | 17.09 | 2,695.00 | 30.62 | 9.41 | -9.36 | 0.00 | 0.00 | 0.00 |
| **Lamar** | | | | | | | | | |
| 2,700.00 | 3.10 | 17.09 | 2,699.18 | 30.83 | 9.48 | -9.42 | 0.00 | 0.00 | 0.00 |
| 2,720.85 | 3.10 | 17.09 | 2,720.00 | 31.91 | 9.81 | -9.75 | 0.00 | 0.00 | 0.00 |
| **Delaware** | | | | | | | | | |
| 2,800.00 | 3.10 | 17.09 | 2,799.03 | 36.00 | 11.07 | -11.00 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 3.10 | 17.09 | 2,898.89 | 41.17 | 12.65 | -12.58 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 3.10 | 17.09 | 2,998.74 | 46.34 | 14.24 | -14.16 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 3.10 | 17.09 | 3,098.59 | 51.50 | 15.83 | -15.74 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 3.10 | 17.09 | 3,198.45 | 56.67 | 17.42 | -17.32 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 3.10 | 17.09 | 3,298.30 | 61.84 | 19.01 | -18.90 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 3.10 | 17.09 | 3,398.15 | 67.00 | 20.60 | -20.48 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 3.10 | 17.09 | 3,498.01 | 72.17 | 22.18 | -22.06 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 3.10 | 17.09 | 3,597.86 | 77.34 | 23.77 | -23.64 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 3.10 | 17.09 | 3,697.72 | 82.51 | 25.36 | -25.22 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 3.10 | 17.09 | 3,797.57 | 87.67 | 26.95 | -26.80 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 3.10 | 17.09 | 3,897.42 | 92.84 | 28.54 | -28.38 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 3.10 | 17.09 | 3,997.28 | 98.01 | 30.13 | -29.96 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 3.10 | 17.09 | 4,097.13 | 103.18 | 31.71 | -31.53 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 3.10 | 17.09 | 4,196.98 | 108.34 | 33.30 | -33.11 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 3.10 | 17.09 | 4,296.84 | 113.51 | 34.89 | -34.69 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 3.10 | 17.09 | 4,396.69 | 118.68 | 36.48 | -36.27 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 3.10 | 17.09 | 4,496.55 | 123.84 | 38.07 | -37.85 | 0.00 | 0.00 | 0.00 |

3R Operating, LLC

Planning Report

| | | | |
|---|---|---|---|
| **Database:** | TZ USA 17.2 | **Local Co-ordinate Reference:** | Well 03_Mongo 25 Fed Com 802H - Slot (03) Mongo 25 Fed Com 802H |
| **Company:** | 3R Operating LLC | **TVD Reference:** | 2925+25 @ 2950.00usft |
| **Project:** | Eddy County_NM (N83-NME) | **MD Reference:** | 2925+25 @ 2950.00usft |
| **Site:** | Mongo 25 | **North Reference:** | Grid |
| **Well:** | 03_Mongo 25 Fed Com 802H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | 802H | | |
| **Design:** | APD-Rev01 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 4,600.00 | 3.10 | 17.09 | 4,596.40 | 129.01 | 39.66 | -39.43 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 3.10 | 17.09 | 4,696.25 | 134.18 | 41.25 | -41.01 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 3.10 | 17.09 | 4,796.11 | 139.35 | 42.83 | -42.59 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 3.10 | 17.09 | 4,895.96 | 144.51 | 44.42 | -44.17 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 3.10 | 17.09 | 4,995.81 | 149.68 | 46.01 | -45.75 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 3.10 | 17.09 | 5,095.67 | 154.85 | 47.60 | -47.33 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 3.10 | 17.09 | 5,195.52 | 160.01 | 49.19 | -48.91 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 3.10 | 17.09 | 5,295.38 | 165.18 | 50.78 | -50.49 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 3.10 | 17.09 | 5,395.23 | 170.35 | 52.36 | -52.07 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 3.10 | 17.09 | 5,495.08 | 175.52 | 53.95 | -53.65 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 3.10 | 17.09 | 5,594.94 | 180.68 | 55.54 | -55.22 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 3.10 | 17.09 | 5,694.79 | 185.85 | 57.13 | -56.80 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 3.10 | 17.09 | 5,794.65 | 191.02 | 58.72 | -58.38 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 3.10 | 17.09 | 5,894.50 | 196.19 | 60.31 | -59.96 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 3.10 | 17.09 | 5,994.35 | 201.35 | 61.89 | -61.54 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 3.10 | 17.09 | 6,094.21 | 206.52 | 63.48 | -63.12 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 3.10 | 17.09 | 6,194.06 | 211.69 | 65.07 | -64.70 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 3.10 | 17.09 | 6,293.91 | 216.85 | 66.66 | -66.28 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 3.10 | 17.09 | 6,393.77 | 222.02 | 68.25 | -67.86 | 0.00 | 0.00 | 0.00 |
| 6,431.28 | 3.10 | 17.09 | 6,425.00 | 223.64 | 68.74 | -68.35 | 0.00 | 0.00 | 0.00 |
| **Bone Spring** | | | | | | | | | |
| 6,500.00 | 3.10 | 17.09 | 6,493.62 | 227.19 | 69.84 | -69.44 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 3.10 | 17.09 | 6,593.48 | 232.36 | 71.42 | -71.02 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 3.10 | 17.09 | 6,693.33 | 237.52 | 73.01 | -72.60 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 3.10 | 17.09 | 6,793.18 | 242.69 | 74.60 | -74.18 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 3.10 | 17.09 | 6,893.04 | 247.86 | 76.19 | -75.76 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 3.10 | 17.09 | 6,992.89 | 253.02 | 77.78 | -77.34 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 3.10 | 17.09 | 7,092.74 | 258.19 | 79.37 | -78.91 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 3.10 | 17.09 | 7,192.60 | 263.36 | 80.95 | -80.49 | 0.00 | 0.00 | 0.00 |
| 7,301.06 | 3.10 | 17.09 | 7,293.51 | 268.58 | 82.56 | -82.09 | 0.00 | 0.00 | 0.00 |
| 7,387.63 | 1.80 | 17.09 | 7,380.00 | 272.12 | 83.65 | -83.17 | 1.50 | -1.50 | 0.00 |
| **1st Bone Spring Sand** | | | | | | | | | |
| 7,400.00 | 1.61 | 17.09 | 7,392.36 | 272.47 | 83.75 | -83.28 | 1.50 | -1.50 | 0.00 |
| 7,507.65 | 0.00 | 0.00 | 7,500.00 | 273.92 | 84.20 | -83.72 | 1.50 | -1.50 | 0.00 |
| 7,600.00 | 0.00 | 0.00 | 7,592.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 0.00 | 0.00 | 7,692.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 7,732.65 | 0.00 | 0.00 | 7,725.00 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| **2nd Bone Spring Carb** | | | | | | | | | |
| 7,800.00 | 0.00 | 0.00 | 7,792.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 0.00 | 0.00 | 7,892.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 0.00 | 0.00 | 7,992.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 0.00 | 0.00 | 8,092.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 8,192.65 | 0.00 | 0.00 | 8,185.00 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| **2nd Bone Spring Sand** | | | | | | | | | |
| 8,200.00 | 0.00 | 0.00 | 8,192.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 0.00 | 0.00 | 8,292.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 0.00 | 0.00 | 8,392.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 0.00 | 0.00 | 8,492.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 8,577.65 | 0.00 | 0.00 | 8,570.00 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| **3rd Bone Spring Carb** | | | | | | | | | |
| 8,600.00 | 0.00 | 0.00 | 8,592.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 0.00 | 0.00 | 8,692.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |

3R Operating, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | TZ USA 17.2 | **Local Co-ordinate Reference:** | Well 03_Mongo 25 Fed Com 802H - Slot (03) Mongo 25 Fed Com 802H |
| **Company:** | 3R Operating LLC | **TVD Reference:** | 2925+25 @ 2950.00usft |
| **Project:** | Eddy County_NM (N83-NME) | **MD Reference:** | 2925+25 @ 2950.00usft |
| **Site:** | Mongo 25 | **North Reference:** | Grid |
| **Well:** | 03_Mongo 25 Fed Com 802H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | 802H | | |
| **Design:** | APD-Rev01 | | |

**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) |
|---|---|---|---|---|---|---|---|---|---|
| 8,800.00 | 0.00 | 0.00 | 8,792.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 0.00 | 0.00 | 8,892.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 0.00 | 0.00 | 8,992.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 0.00 | 0.00 | 9,092.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 0.00 | 0.00 | 9,192.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 9,277.65 | 0.00 | 0.00 | 9,270.00 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| **3rd Bone Spring Sand** | | | | | | | | | |
| 9,300.00 | 0.00 | 0.00 | 9,292.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 0.00 | 0.00 | 9,392.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 0.00 | 0.00 | 9,492.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 0.00 | 0.00 | 9,592.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 9,662.65 | 0.00 | 0.00 | 9,655.00 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| **Wolfcamp XY*** | | | | | | | | | |
| 9,700.00 | 0.00 | 0.00 | 9,692.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 0.00 | 0.00 | 9,792.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 9,807.65 | 0.00 | 0.00 | 9,800.00 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| **Wolfcamp A** | | | | | | | | | |
| 9,900.00 | 0.00 | 0.00 | 9,892.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 0.00 | 0.00 | 9,992.35 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| 10,034.69 | 0.00 | 0.00 | 10,027.04 | 273.92 | 84.20 | -83.72 | 0.00 | 0.00 | 0.00 |
| **KOP: 10034.69' MD/-83.72' VS/10027.04' TVD** | | | | | | | | | |
| 10,050.00 | 1.53 | 270.10 | 10,042.35 | 273.92 | 84.00 | -83.52 | 10.00 | 10.00 | 0.00 |
| 10,100.00 | 6.53 | 270.10 | 10,092.21 | 273.93 | 80.48 | -80.00 | 10.00 | 10.00 | 0.00 |
| 10,150.00 | 11.53 | 270.10 | 10,141.57 | 273.94 | 72.64 | -72.16 | 10.00 | 10.00 | 0.00 |
| 10,200.00 | 16.53 | 270.10 | 10,190.07 | 273.96 | 60.52 | -60.04 | 10.00 | 10.00 | 0.00 |
| 10,250.00 | 21.53 | 270.10 | 10,237.32 | 273.99 | 44.22 | -43.74 | 10.00 | 10.00 | 0.00 |
| 10,300.00 | 26.53 | 270.10 | 10,282.97 | 274.03 | 23.86 | -23.39 | 10.00 | 10.00 | 0.00 |
| 10,336.40 | 30.17 | 270.10 | 10,315.00 | 274.06 | 6.58 | -6.10 | 10.00 | 10.00 | 0.00 |
| **Wolfcamp B** | | | | | | | | | |
| 10,350.00 | 31.53 | 270.10 | 10,326.67 | 274.07 | -0.39 | 0.87 | 10.00 | 10.00 | 0.00 |
| 10,400.00 | 36.53 | 270.10 | 10,368.10 | 274.12 | -28.37 | 28.84 | 10.00 | 10.00 | 0.00 |
| 10,450.00 | 41.53 | 270.10 | 10,406.93 | 274.18 | -59.84 | 60.32 | 10.00 | 10.00 | 0.00 |
| 10,500.00 | 46.53 | 270.10 | 10,442.86 | 274.24 | -94.58 | 95.06 | 10.00 | 10.00 | 0.00 |
| 10,550.00 | 51.53 | 270.10 | 10,475.63 | 274.31 | -132.32 | 132.80 | 10.00 | 10.00 | 0.00 |
| 10,583.37 | 54.87 | 270.10 | 10,495.62 | 274.36 | -159.04 | 159.52 | 10.00 | 10.00 | 0.00 |
| **Sec25Entry(NM107373): 10583.37' MD** | | | | | | | | | |
| 10,600.00 | 56.53 | 270.10 | 10,504.99 | 274.38 | -172.78 | 173.26 | 10.00 | 10.00 | 0.00 |
| 10,650.00 | 61.53 | 270.10 | 10,530.71 | 274.46 | -215.64 | 216.12 | 10.00 | 10.00 | 0.00 |
| 10,700.00 | 66.53 | 270.10 | 10,552.60 | 274.54 | -260.57 | 261.05 | 10.00 | 10.00 | 0.00 |
| 10,750.00 | 71.53 | 270.10 | 10,570.49 | 274.63 | -307.25 | 307.73 | 10.00 | 10.00 | 0.00 |
| 10,800.00 | 76.53 | 270.10 | 10,584.24 | 274.71 | -355.30 | 355.78 | 10.00 | 10.00 | 0.00 |
| 10,850.00 | 81.53 | 270.10 | 10,593.75 | 274.80 | -404.37 | 404.85 | 10.00 | 10.00 | 0.00 |
| 10,900.00 | 86.53 | 270.10 | 10,598.95 | 274.89 | -454.09 | 454.57 | 10.00 | 10.00 | 0.00 |
| 10,934.69 | 90.00 | 270.10 | 10,600.00 | 274.95 | -488.76 | 489.24 | 10.00 | 10.00 | 0.00 |
| **EOC: 10934.69' MD/489.24' VS/10600.00' TVD** | | | | | | | | | |
| 10,934.72 | 90.00 | 270.10 | 10,600.00 | 274.95 | -488.79 | 489.27 | 0.00 | 0.00 | 0.00 |
| **01-FTP(MGFC-802H)** | | | | | | | | | |
| 10,935.34 | 90.00 | 270.10 | 10,600.00 | 274.95 | -489.41 | 489.89 | 0.00 | 0.00 | 0.00 |
| **330FLL: 10935.34' MD/ 489.89' VS/10600.00' TVD** | | | | | | | | | |
| 11,000.00 | 90.00 | 270.10 | 10,600.00 | 275.07 | -554.07 | 554.55 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.00 | 270.10 | 10,600.00 | 275.25 | -654.07 | 654.55 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.00 | 270.10 | 10,600.00 | 275.43 | -754.07 | 754.55 | 0.00 | 0.00 | 0.00 |

3R Operating, LLC

Planning Report

| | | | |
|---|---|---|---|
| **Database:** | TZ USA 17.2 | **Local Co-ordinate Reference:** | Well 03_Mongo 25 Fed Com 802H - Slot (03) Mongo 25 Fed Com 802H |
| **Company:** | 3R Operating LLC | **TVD Reference:** | 2925+25 @ 2950.00usft |
| **Project:** | Eddy County_NM (N83-NME) | **MD Reference:** | 2925+25 @ 2950.00usft |
| **Site:** | Mongo 25 | **North Reference:** | Grid |
| **Well:** | 03_Mongo 25 Fed Com 802H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | 802H | | |
| **Design:** | APD-Rev01 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 11,300.00 | 90.00 | 270.10 | 10,600.00 | 275.61 | -854.07 | 854.55 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.00 | 270.10 | 10,600.00 | 275.79 | -954.07 | 954.55 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.00 | 270.10 | 10,600.00 | 275.97 | -1,054.07 | 1,054.55 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.00 | 270.10 | 10,600.00 | 276.15 | -1,154.07 | 1,154.55 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.00 | 270.10 | 10,600.00 | 276.33 | -1,254.06 | 1,254.55 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.00 | 270.10 | 10,600.00 | 276.51 | -1,354.06 | 1,354.55 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.00 | 270.10 | 10,600.00 | 276.69 | -1,454.06 | 1,454.55 | 0.00 | 0.00 | 0.00 |
| 11,980.80 | 90.00 | 270.10 | 10,600.00 | 276.84 | -1,534.86 | 1,535.35 | 0.00 | 0.00 | 0.00 |
| **Entry(NM025953): 11980.80' MD - Exit(NM107373): 11980.80' MD** | | | | | | | | | |
| 11,980.82 | 90.00 | 270.10 | 10,600.00 | 276.84 | -1,534.88 | 1,535.36 | 0.00 | 0.00 | 0.00 |
| **Target CL - 02-PP2(MGFC-802H)** | | | | | | | | | |
| 12,000.00 | 90.00 | 270.10 | 10,600.00 | 276.87 | -1,554.06 | 1,554.55 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.00 | 270.10 | 10,600.00 | 277.05 | -1,654.06 | 1,654.55 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.00 | 270.10 | 10,600.00 | 277.24 | -1,754.06 | 1,754.55 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.00 | 270.10 | 10,600.00 | 277.42 | -1,854.06 | 1,854.55 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.00 | 270.10 | 10,600.00 | 277.60 | -1,954.06 | 1,954.55 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.00 | 270.10 | 10,600.00 | 277.78 | -2,054.06 | 2,054.55 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.00 | 270.10 | 10,600.00 | 277.96 | -2,154.06 | 2,154.55 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 270.10 | 10,600.00 | 278.14 | -2,254.06 | 2,254.55 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 270.10 | 10,600.00 | 278.32 | -2,354.06 | 2,354.55 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 270.10 | 10,600.00 | 278.50 | -2,454.06 | 2,454.55 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 270.10 | 10,600.00 | 278.68 | -2,554.06 | 2,554.55 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 270.10 | 10,600.00 | 278.86 | -2,654.06 | 2,654.55 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 270.10 | 10,600.00 | 279.04 | -2,754.06 | 2,754.55 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 270.10 | 10,600.00 | 279.22 | -2,854.06 | 2,854.55 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.00 | 270.10 | 10,600.00 | 279.40 | -2,954.06 | 2,954.55 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 270.10 | 10,600.00 | 279.58 | -3,054.06 | 3,054.55 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.00 | 270.10 | 10,600.00 | 279.76 | -3,154.06 | 3,154.55 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 270.10 | 10,600.00 | 279.94 | -3,254.06 | 3,254.55 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 270.10 | 10,600.00 | 280.12 | -3,354.06 | 3,354.55 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 270.10 | 10,600.00 | 280.30 | -3,454.06 | 3,454.55 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 270.10 | 10,600.00 | 280.48 | -3,554.06 | 3,554.55 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 270.10 | 10,600.00 | 280.66 | -3,654.06 | 3,654.55 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 270.10 | 10,600.00 | 280.84 | -3,754.06 | 3,754.55 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 270.10 | 10,600.01 | 281.02 | -3,854.06 | 3,854.55 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.00 | 270.10 | 10,600.01 | 281.20 | -3,954.06 | 3,954.55 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 270.10 | 10,600.01 | 281.38 | -4,054.06 | 4,054.55 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 270.10 | 10,600.01 | 281.56 | -4,154.06 | 4,154.55 | 0.00 | 0.00 | 0.00 |
| 14,654.86 | 90.00 | 270.10 | 10,600.01 | 281.66 | -4,208.92 | 4,209.41 | 0.00 | 0.00 | 0.00 |
| **Exit(NM025953): 14654.86' MD** | | | | | | | | | |
| 14,654.97 | 90.00 | 270.10 | 10,600.00 | 281.65 | -4,209.03 | 4,209.52 | 0.00 | 0.00 | 0.00 |
| **03-PP3(MGFC-802H)** | | | | | | | | | |
| 14,700.00 | 90.00 | 270.10 | 10,600.00 | 281.73 | -4,254.06 | 4,254.55 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 270.10 | 10,600.00 | 281.91 | -4,354.06 | 4,354.55 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 270.10 | 10,600.00 | 282.09 | -4,454.06 | 4,454.55 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.00 | 270.10 | 10,600.00 | 282.27 | -4,554.06 | 4,554.55 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.00 | 270.10 | 10,600.00 | 282.45 | -4,654.06 | 4,654.55 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.00 | 270.10 | 10,600.00 | 282.63 | -4,754.06 | 4,754.55 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 270.10 | 10,600.00 | 282.81 | -4,854.06 | 4,854.55 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 270.10 | 10,600.00 | 282.99 | -4,954.06 | 4,954.55 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 270.10 | 10,600.00 | 283.17 | -5,054.06 | 5,054.55 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 270.10 | 10,600.00 | 283.35 | -5,154.06 | 5,154.55 | 0.00 | 0.00 | 0.00 |

3R Operating, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | TZ USA 17.2 | **Local Co-ordinate Reference:** | Well 03_Mongo 25 Fed Com 802H - Slot (03) Mongo 25 Fed Com 802H |
| **Company:** | 3R Operating LLC | **TVD Reference:** | 2925+25 @ 2950.00usft |
| **Project:** | Eddy County_NM (N83-NME) | **MD Reference:** | 2925+25 @ 2950.00usft |
| **Site:** | Mongo 25 | **North Reference:** | Grid |
| **Well:** | 03_Mongo 25 Fed Com 802H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | 802H | | |
| **Design:** | APD-Rev01 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 15,661.91 | 90.00 | 270.10 | 10,600.00 | 283.47 | -5,215.97 | 5,216.46 | 0.00 | 0.00 | 0.00 |
| **TD: 15661.91' MD/5216.46' VS/10600.00' TVD - 04-PBHL-LTP(MGFC-802H)** | | | | | | | | | |

**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 |
|---|---|---|---|---|---|---|---|---|---|
| 03-PP3(MGFC-802H)<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 10,600.00 | 281.65 | -4,209.03 | 433,091.43 | 630,497.41 | 32.19031739 | -104.04511324 |
| 02-PP2(MGFC-802H)<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 10,600.00 | 276.84 | -1,534.88 | 433,086.62 | 633,171.56 | 32.19028417 | -104.03646887 |
| 04-PBHL-LTP(MGFC-80<br>- plan misses target center by 0.01usft at 15661.91usft MD (10600.00 TVD, 283.47 N, -5215.97 E)<br>- Point | 0.00 | 0.00 | 10,600.00 | 283.46 | -5,215.97 | 433,093.24 | 629,490.47 | 32.19032974 | -104.04836825 |
| 01-FTP(MGFC-802H)<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 10,600.00 | 274.95 | -488.79 | 433,084.73 | 634,217.65 | 32.19027099 | -104.03308732 |

**Formations**

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 0.00 | 0.00 | Rustler | | 0.00 | |
| 1,175.00 | 1,175.00 | Castille | | | |
| 2,695.82 | 2,695.00 | Lamar | | | |
| 2,720.85 | 2,720.00 | Delaware | | | |
| 6,431.28 | 6,425.00 | Bone Spring | | | |
| 7,387.63 | 7,380.00 | 1st Bone Spring Sand | | | |
| 7,732.65 | 7,725.00 | 2nd Bone Spring Carb | | | |
| 8,192.65 | 8,185.00 | 2nd Bone Spring Sand | | | |
| 8,577.65 | 8,570.00 | 3rd Bone Spring Carb | | | |
| 9,277.65 | 9,270.00 | 3rd Bone Spring Sand | | | |
| 9,662.65 | 9,655.00 | Wolfcamp XY* | | | |
| 9,807.65 | 9,800.00 | Wolfcamp A | | | |
| 10,336.40 | 10,315.00 | Wolfcamp B | | | |
| 11,980.82 | 10,600.00 | Target CL | | | |

3R Operating, LLC

Planning Report

| | | | |
|---|---|---|---|
| **Database:** | TZ USA 17.2 | **Local Co-ordinate Reference:** | Well 03_Mongo 25 Fed Com 802H - Slot (03) Mongo 25 Fed Com 802H |
| **Company:** | 3R Operating LLC | **TVD Reference:** | 2925+25 @ 2950.00usft |
| **Project:** | Eddy County_NM (N83-NME) | **MD Reference:** | 2925+25 @ 2950.00usft |
| **Site:** | Mongo 25 | **North Reference:** | Grid |
| **Well:** | 03_Mongo 25 Fed Com 802H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | 802H | | |
| **Design:** | APD-Rev01 | | |

**Plan Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | +E/-W (usft) | Comment |
|---|---|---|---|---|
| 10,034.69 | 10,027.04 | 273.92 | 84.20 | KOP: 10034.69' MD/-83.72' VS/10027.04' TVD |
| 10,583.37 | 10,495.62 | 274.36 | -159.04 | Sec25Entry(NM107373): 10583.37' MD |
| 10,934.69 | 10,600.00 | 274.95 | -488.76 | EOC: 10934.69' MD/489.24' VS/10600.00' TVD |
| 10,935.34 | 10,600.00 | 274.95 | -489.41 | 330FLL: 10935.34' MD/ 489.89' VS/10600.00' TVD |
| 11,980.80 | 10,600.00 | 276.84 | -1,534.86 | Entry(NM025953): 11980.80' MD |
| 11,980.80 | 10,600.00 | 276.84 | -1,534.86 | Exit(NM107373): 11980.80' MD |
| 14,654.86 | 10,600.01 | 281.66 | -4,208.92 | Exit(NM025953): 14654.86' MD |
| 15,661.91 | 10,600.00 | 283.47 | -5,215.97 | TD: 15661.91' MD/5216.46' VS/10600.00' TVD |

Project: Eddy County_NM (N83-NME)
Site: Mongo 25
Well: 03_Mongo 25 Fed Com 802H
Wellbore: 802H
Plan: APD-Rev01

## WELL DETAILS: 03_Mongo 25 Fed Com 802H

Ground Elevation: 2925.00

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|---|---|---|---|---|---|
| 0.00 | 0.00 | 432809.78 | 634706.44 | 32.18951143 | -104.03150976 |

## PROJECT DETAILS: Eddy County_NM (N83-NME)

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

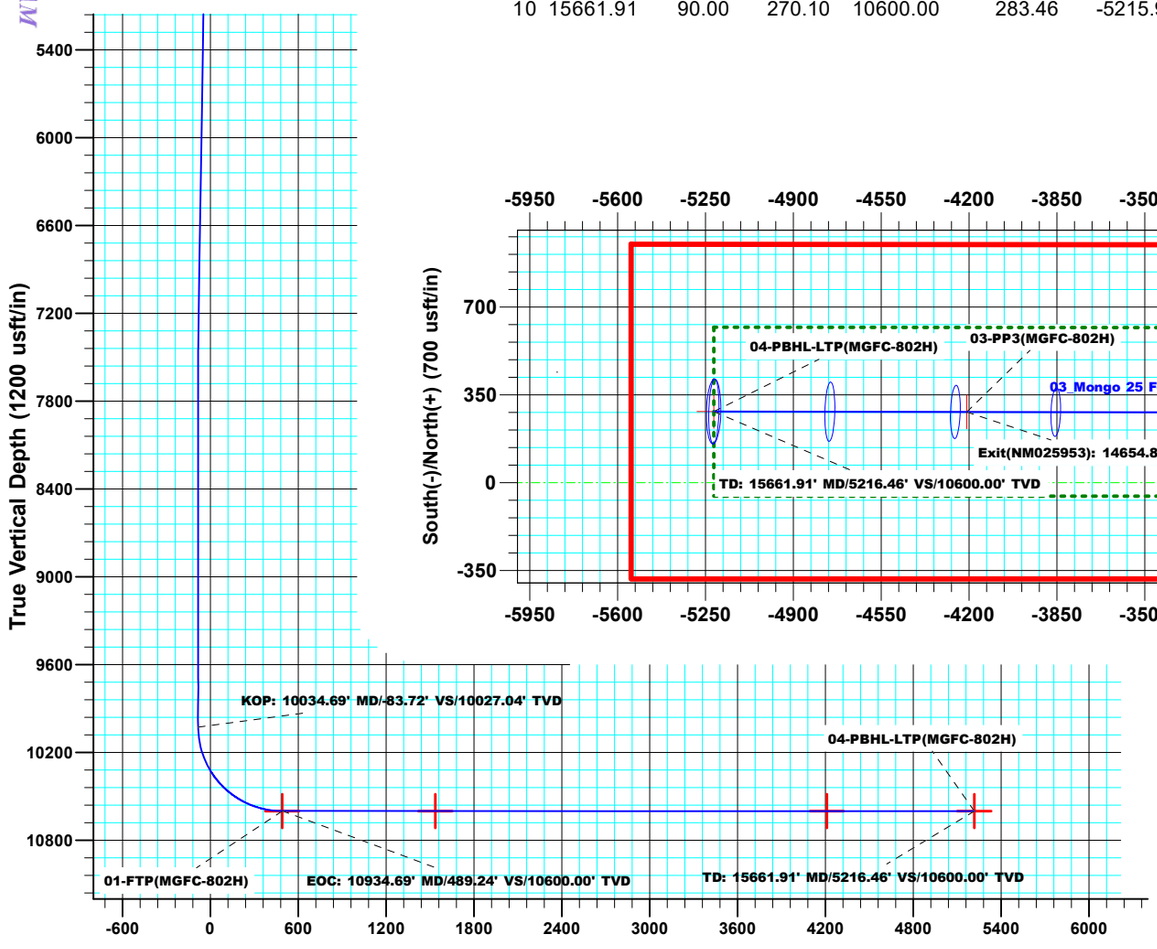
3R Operating, LLC

## SECTION DETAILS

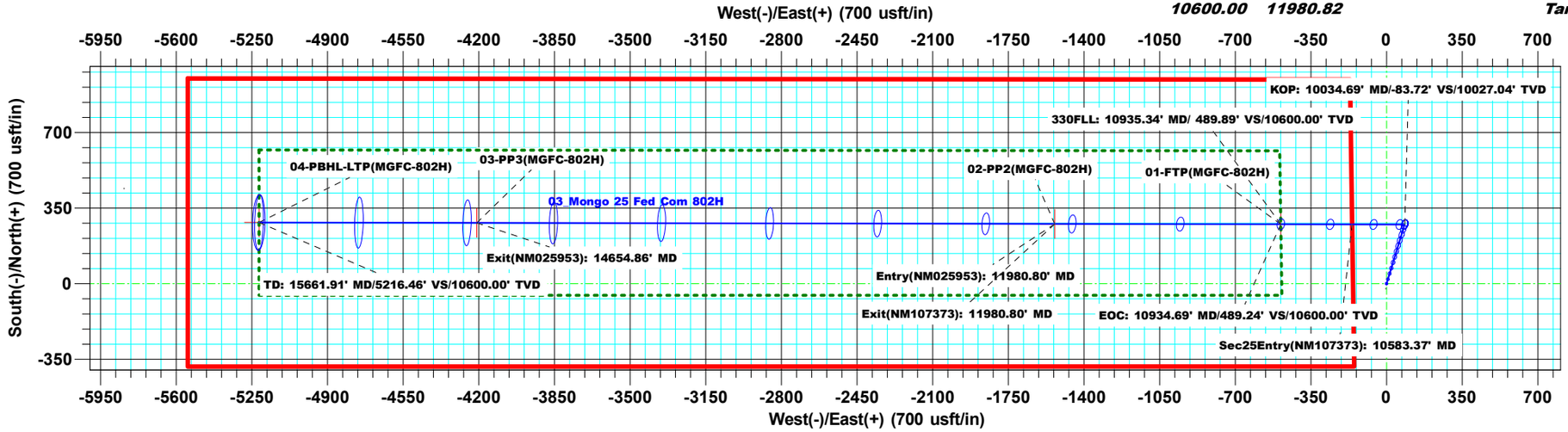
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 2000.00 | 0.00 | 0.00 | 2000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 2206.59 | 3.10 | 17.09 | 2206.49 | 5.34 | 1.64 | 1.50 | 17.09 | -1.63 |
| 4 | 7301.06 | 3.10 | 17.09 | 7293.51 | 268.58 | 82.56 | 0.00 | 0.00 | -82.09 |
| 5 | 7507.65 | 0.00 | 0.00 | 7500.00 | 273.92 | 84.20 | 1.50 | 180.00 | -83.72 |
| 6 | 10034.69 | 0.00 | 0.00 | 10027.04 | 273.92 | 84.20 | 0.00 | 0.00 | -83.72 |
| 7 | 10934.69 | 90.00 | 270.10 | 10600.00 | 274.95 | -488.76 | 10.00 | 270.10 | 489.23 |
| 8 | 11980.82 | 90.00 | 270.10 | 10600.00 | 276.84 | -1534.88 | 0.00 | 0.00 | 1535.36 |
| 9 | 14654.97 | 90.00 | 270.10 | 10600.00 | 281.65 | -4209.03 | 0.00 | 0.00 | 4209.52 |
| 10 | 15661.91 | 90.00 | 270.10 | 10600.00 | 283.46 | -5215.97 | 0.00 | 0.00 | 5216.46 |

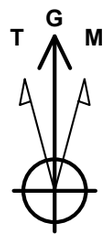
## FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---|---|---|
| 0.00 | 0.00 | Rustler |
| 1175.00 | 1175.00 | Castille |
| 2695.00 | 2695.82 | Lamar |
| 2720.00 | 2720.85 | Delaware |
| 6425.00 | 6431.28 | Bone Spring |
| 7380.00 | 7387.63 | 1st Bone Spring Sand |
| 7725.00 | 7732.65 | 2nd Bone Spring Carb |
| 8185.00 | 8192.65 | 2nd Bone Spring Sand |
| 8570.00 | 8577.65 | 3rd Bone Spring Carb |
| 9270.00 | 9277.65 | 3rd Bone Spring Sand |
| 9655.00 | 9662.65 | Wolfcamp XY* |
| 9800.00 | 9807.65 | Wolfcamp A |
| 10315.00 | 10336.40 | Wolfcamp B |
| 10600.00 | 11980.82 | Target CL |




Vertical Section at 270.10° (1200 usft/in)




Azimuths to Grid North
True North: -0.16°
Magnetic North: 6.19°

Magnetic Field
Strength: 47073.2nT
Dip Angle: 59.69°
Date: 11/21/2024
Model: IGRF2020

NEWSCO
A SAWAFI COMPANY

# WELL CONTROL PLAN

## 3R OPERATING, LLC

10M BOP / 5M ANNULAR PREVENTER

# 1. Drilling Well Control Plan

## 1.1 Well Control - CERTIFICATIONS

**Required IADC/IWCF Well Control Certifications Supervisor Level:**

Any personnel who supervises or operates the BOP must possess a valid current IADC training certification and photo identification. This would include the onsite drilling supervisor, tool pusher/rig manager, driller, and any personnel that will be acting in these capacities. Another example of this may be a wireline or snubbing crew rigged up on the rig to assist the rig, the operator of each system must also have a valid control certification for their level of operation.

BLM recognizes IADC training as the industry approved accredited training. Online self-certifications will not be acceptable. Enforcement actions for the lack of a valid Supervisory Level certificate shall be prompt action to correct the deficiency. **Enforcement actions include but are not limited to immediate replacement of personnel lacking certifications, drilling operations being shut down or installment of a 10M annular.**

IADC Driller Level for all Drillers and general knowledge for the Assistant Driller, Derrick Hands, Floor Hands and Motor Hands is recognized by the BLM; however, a Driller Level certification will need to be presented only if acting in a temporary Driller Level certification capacity.

### Well Control-Position/Roles

IADC Well control training and certification is targeted toward each role, e.g., Supervisor Level toward those who direct, Driller Level to those who act, Introductory to those who need to know.

- **Supervisor Level**
  - Specifies and has oversight that the correct actions are carried out
  - Role is to supervise well control equipment, training, testing, and well control events
  - Directs the testing of BOP and other well control equipment
  - Regularly direct well control crew drills
  - Land based rigs – usually runs the choke during a well kill operation
  - Due to role on the rig, training and certification is targeted more toward management of well control and managing an influx out of the well

- **Driller Level**
  - Performs an action to prevent or respond to well control accident
  - Role is to monitor the well via electronic devices while drilling and detect unplanned influxes
  - Assist with the testing of BOP and other well control equipment
  - Regularly assist with well control crew drills
  - When influx is detected, responsible to close the BOP
  - Due to role on the rig, training and certification is targeted more toward monitoring and shutting the well in (closing the BOP) when an influx is detected

**(Well Control-Positions/Roles Continued)**

- **Derrick Hand, Assistant Driller Introductory Level**
  - Role is to assist Driller with kick detection by physically monitoring the well at the mixing pits/tanks
  - Regularly record mud weights/viscosity for analysis by the Supervisor level and mud engineer so pre-influx signs can be detected
  - Mix required kill fluids as directed by Supervisor or Driller
  - Due to role on the rig, training and certification is targeted more toward monitoring for influxes, either via mud samples or visual signs on the pits/tanks

- **Motorman, Floor Hand Introductory Level**
  - Role is to assist the Supervisor, Driller, or Derrick Hand with detecting influxes
  - Be certain all valves are aligned for proper well control as directed by Supervisor
  - Perform Supervisor or Driller assigned tasks during a well control event
  - Due to role on the rig, training and certification is targeted more toward monitoring for influxes

## 1.2 WELL CONTROL-COMPONENT AND PREVENTER COMPATIBILITY CHECKLIST

The table below, which covers the drilling and casing of the 10M Stack portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

- Example 8-3/4" Production hole section, 10M requirement

| Component | OD | Preventer | RWP |
|---|---|---|---|
| Drill pipe | 5" | Fixed lower 5"<br>Upper 4.5-7" VBR | 10M |
| HWDP | 5" | Fixed lower 5"<br>Upper 4.5-7" VBR | 10M |
| Jars | 5" | Fixed lower 5"<br>Upper 4.5-7" VBR | 10M |
| Drill collars and MWD tools | 6.25-6.75" | Upper 4.5-7" VBR | 10M |
| Mud Motor | 6.75" | Upper 4.5-7" VBR | 10M |
| Production casing | 5.5" | Upper 4.5-7" VBR | 10M |
| ALL | 0-13-5/8" | Annular | 5M |
| Open-hole | - | Blind Rams | 10M |

- VBR = Variable Bore Ram. Compatible range listed in chart.

## 1.3 WELL CONTROL-BOP TESTING

BOP Test will be completed per Onshore Oil and Gas Order #2 Well Control requirements. The 5M Annular Preventer on a required 10M BOP stack will be tested to 100% of rated working pressure including a 10 minute low pressure test. Pressure shall be maintained at least 10 minutes.

## 1.4 WELL CONTROL - DRILLS

The following drills are conducted and recorded in the Daily Drilling Report and the Contractor's reporting system while engaged in drilling operations:

| Type | Frequency | Objective | Comments |
|---|---|---|---|
| Shallow gas kick drill - drilling | Once per well with crew on tour | Response training to a shallow gas influx | To be done prior to drilling surface hole if shallow gas is noted |
| Kick drill - drilling | Once per week per crew | Response training to an influx while drilling (bit on bottom) | Only one kick drill per week per crew is required, alternating between drilling and tripping. |
| Kick drill - tripping | Once per week per crew | Response training to an influx while tripping (bit off bottom). Practice stabbing TIW valve | |
| Choke drill | Once per well with crew on tour | Practice in operating the remotely operated choke with pressure in the well | Before drilling out of the last casing set above a prospective reservoir<br><br>Include the scenario of flowing well with gas on drill floor as a table top |
| $H_2S$ drill | Prior to drilling into a potential $H_2S$ zone/reservoir | Practice in use of respiratory equipment | |

## 1.5 WELL CONTROL – MONITORING

- Drilling operations which utilize static fluid levels in the wellbore as the active barrier element, a means of accurately monitoring fill-up and displacement volumes during trips are available to the driller and operator. A recirculating trip tank is installed and equipped with a volume indicator easily read from the driller's / operator's position. This data is recorded on a calibrated chart recorder or digitally. The actual volumes are compared to the calculated volumes.
- The On-Site Supervisor ensures hole-filling and pit monitoring procedures are established and documented for every rig operation.
- The well is kept full of fluid with a known density and monitored at all times even when out of the hole.
- Flow checks are a minimum of 15 minutes.
- A flow check is made:
  - In the event of a drilling break.
  - After indications of down hole gains or losses.
  - Prior to all trips out of the hole.
  - After pulling into the casing shoe.
  - Before the BHA enters the BOP stack.
  - If trip displacement is incorrect.

**Well Control-Monitoring (Continued)**

- Prior to dropping a survey instrument.
- Prior to dropping a core ball.
- After a well kill operation.
- When the mud density is reduced in the well.

- Flow checks may be made at any time at the sole discretion of the driller or his designate. The Onsite Supervisor ensures that personnel are aware of this authority and the authority to close the well in immediately without further consultation.
- Record slow circulating rates ( SCR ) after each crew change, bit trip, and 500' of new hole drilled and after any variance greater than 0.2 ppg in MW. Slow pump rate recordings should include return flow percent, TVD, MD & pressure. SCR's will be done on all pumps at 30, 40 & 50 SPM. Pressures will be recorded at the choke panel. SCR will be recorded in the IADC daily report and ORB Wellview daily report
- Drilling blind (i.e. without returns) is permissible only in known lithology where the absence of hydrocarbons has been predetermined and written approval of the Drilling Manager.
- All open hole logs to be run with pack-off or lubricator.
- The Drilling Contractor has a fully working pit level totalizer / monitoring system with read out for the driller and an audible alarm set to 10 BBL gain / loss volume. Systems are selectable to enable monitoring of all pits in use. Pit volumes are monitored at all times, especially when transferring fluids. Both systems data is recorded on a calibrated chart recorder or electronically.
- The Drilling Contractor has a fully working return mud flow indicator with drillers display and an audible alarm, and is adjustable to record any variance in return volumes.

## 1.6 WELL CONTROL – SHUT IN

- The "hard shut in" method (i.e. against a closed choke using either an annular or ram type preventer) is the Company standard.
- The HCR(s) or failsafe valves are left closed during drilling to prevent any erosion and buildup of solids. The adjustable choke should also be left closed.
- The rig specific shut in procedure, the BOP configuration along with space-out position for the tool joints is posted in the Driller's control cabin or doghouse.
- No well kill operation commences until there is a plan agreed by the Superintendent, On-Site Supervisor and the Drilling Manager.
- During a well kill by circulation, constant bottom hole pressure is maintained throughout.
- Kill sheets are maintained by the Driller and posted in the Driller's control cabin or doghouse. The sheet is updated at a minimum every 500 feet.

## 2. SHUT-IN PROCEDURES:

### 2.1 PROCEDURE WHILE DRILLING

- Sound alarm (alert crew)
- Space out drill string – Stop rotating, pick the drill string up off bottom, and space out to ensure no tool joint is located in the BOP element selected for initial closure.
- Shut down pumps (stop pumps and observe well.)
- Shut-in Well - If flow is suspected or confirmed, close uppermost applicable BOP element. (HCR and choke will already be in the closed position.)
    - **Note:** Either the uppermost pipe ram or annular preventer can be used.
- Confirm shut-in
- Notify toolpusher/company representative
- Gather all relevant data required:
    - SIDPP and SICP
    - Hole Depth and Hole TVD
    - Pit gain
    - Time
    - Kick Volume
    - Pipe depth
    - MW in, MW out
    - SPR's (Slow Pump Rate's)
- Regroup and identify forward plan (let well stabilize, update kill sheet, inventory mud additives and mud volumes on location)
- Company Representative, Drilling Superintendent, Drilling Engineer and Drilling Manager will discuss well control kill method to be utilized. A verbal Risk Assessment and preferred kill method will be finalized. Initial Risk Assessment will be finalized within 1 hour of initial shut in.
- No well kill operation commences until there is a plan agreed by the Superintendent, On-Site Supervisor and the Drilling Contractor PIC.
- Recheck all pressures and fluid volume on accumulator unit
- If pressure has built or is anticipated during the kill to reach 5,000 psi or greater, the annular preventer CANNOT be used as per Oil Company Well Control Policy, swap to the upper BOP pipe ram.

### 2.2 PROCEDURE WHILE TRIPPING

- Sound alarm (alert crew)
- Stab full opening safety valve in the drill string and close.
- Space out drill string (ensure no tool joint is located in the BOP element selected for initial closure).
- Shut down pumps (stop pumps and observe well.)
- Shut-in Well - If flow is suspected or confirmed, close uppermost applicable BOP element. (HCR and choke will already be in the closed position.)
    - **Note:** Either the uppermost pipe ram or annular preventer can be used.
- Confirm shut-in
- Notify tool pusher/company representative
- Gather all relevant data required:
    - SIDPP and SICP
    - Hole Depth and Hole TVD
    - Pit gain

**Procedure While Tripping (Continued)**

  - Time
  - Kick Volume
  - Pipe depth
  - MW in, MW out
  - SPR's (Slow Pump Rate's)
- Regroup and identify forward plan (let well stabilize, update kill sheet, inventory mud additives and mud volumes on location)
- Company Representative, Drilling Superintendent, Drilling Engineer and Drilling Manager will discuss well control kill method to be utilized. A verbal Risk Assessment and preferred kill method will be finalized. Initial Risk Assessment will be finalized within 1 hour of initial shut in.
- No well kill operation commences until there is a plan agreed by the Superintendent, On-Site Supervisor and the Drilling Contractor PIC.
- Recheck all pressures and fluid volume on accumulator unit
  If pressure has built or is anticipated during the kill to reach 5,000 psi or greater, the annular preventer CANNOT be used as per Company Well Control Policy, swap to the upper BOP pipe ram.

## 2.3 PROCEDURE WHILE RUNNING CASING

- Sound alarm (alert crew)
- Stab crossover and full opening safety valve and close
- Space out casing (ensure no coupling is located in the BOP element selected for initial closure).
- Shut down pumps (stop pumps and observe well.)
- Shut-in Well - If flow is suspected or confirmed, close uppermost applicable BOP element. (HCR and choke will already be in the closed position.)
  - **Note:** Either the uppermost pipe ram or annular preventer can be used.
- Confirm shut-in
- Notify tool pusher/company representative
- Gather all relevant data required:
  - SIDPP and SICP
  - Hole Depth and Hole TVD
  - Pit gain
  - Time
  - Kick Volume
  - Pipe depth
  - MW in, MW out
  - SPR's (Slow Pump Rate's)
- Regroup and identify forward plan (let well stabilize, update kill sheet, inventory mud additives and mud volumes on location)
- Company Representative, Drilling Superintendent, Drilling Engineer and Drilling Manager will discuss well control kill method to be utilized. A verbal Risk Assessment and preferred kill method will be finalized. Initial Risk Assessment will be finalized within 1 hour of initial shut in.
- No well kill operation commences until there is a plan agreed by the Superintendent, On-Site Supervisor and the Drilling Contractor PIC.
- Recheck all pressures and fluid volume on accumulator unit
  If pressure has built or is anticipated during the kill to reach 5,000 psi or greater, the annular preventer CANNOT be used, swap to the upper BOP pipe ram.

## 2.4 PROCEDURE WITH NO PIPE IN HOLE (OPEN HOLE)

- Sound alarm (alert crew)
- Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
- Confirm shut-in
- Notify toolpusher/company representative
- Gather all relevant data required:
  - Shut-In Pressure
  - Hole Depth and Hole TVD
  - Pit gain
  - Time
  - Kick Volume
  - MW in, MW out
  - SPR's (Slow Pump Rate's)
- Regroup and identify forward plan (let well stabilize, update kill sheet, inventory mud additives and mud volumes on location)
- Company Representative, Drilling Superintendent, Drilling Engineer and Drilling Manager will discuss well control kill method to be utilized. A verbal Risk Assessment and preferred kill method will be finalized. Initial Risk Assessment will be finalized within 1 hour of initial shut in.
- No well kill operation commences until there is a plan agreed by the Superintendent, On-Site Supervisor and the Drilling Contractor PIC.
- Recheck all pressures and fluid volume on accumulator unit.

## 2.5 PROCEDURE WHILE PULLING BHA THRU STACK

- PRIOR to pulling last joint of drill pipe thru the stack.
- Perform flow check, if flowing.
- Sound alarm (alert crew).
- Stab full opening safety valve and close
- Space out drill string with tool joint just beneath the upper pipe ram.
- Shut-in using upper pipe ram. (HCR and choke will already be in the closed position).
- Confirm shut-in.
- Notify toolpusher/company representative
- Read and record the following:
  - SIDPP and SICP
  - Pit gain
  - Time
- Regroup and identify forward plan

- **With BHA in the stack and compatible ram preventer and pipe combo immediately available**.
  - Sound alarm (alert crew)
  - Stab crossover and full opening safety valve and close
  - Space out drill string with upset just beneath the compatible pipe ram.
  - Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
  - Confirm shut-in
  - Notify toolpusher/company representative
  - Read and record the following:
    - SIDPP and SICP
    - Pit gain

**Procedures While Pulling BHA thru Stack (Continued)**

- Time
- Regroup and identify forward plan

- **With BHA in the stack and <u>NO</u> compatible ram preventer and pipe combo immediately available**.
  - Sound alarm (alert crew)
  - If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
  - If impossible to pick up high enough to pull the string clear of the stack:
  - Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
  - Space out drill string with tool joint just beneath the upper pipe ram.
  - Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
  - Confirm shut-in
  - Notify toolpusher/company representative
  - Read and record the following:
    - SIDPP and SICP
    - Pit gain
    - Time

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BUREAU OF LAND MANAGEMENT

# SUPO Data Report
04/29/2025

**APD ID:** 10400102194
**Submission Date:** 11/26/2024
**Operator Name:** 3R OPERATING LLC
**Well Name:** MONGO 25 FED COM
**Well Number:** 802H
**Well Type:** CONVENTIONAL GAS WELL
**Well Work Type:** Drill

Highlighted data reflects the most recent changes
Show Final Text

## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

ROCK_RIDGE_MONGO_ACCESS_AERIAL_20241126141429.pdf
ROCK_RIDGE_MONGO_ACCESS_ROUTE__1__20241126141436.pdf
ROCK_RIDGE_MONGO_ACCESS_ROUTE__2__20241126141523.pdf

**Existing Road Purpose:** ACCESS,FLUID TRANSPORT
**Row(s) Exist?** NO

### ROW ID(s)

**ID:**

**Do the existing roads need to be improved?** NO

**Existing Road Improvement Description:**

**Existing Road Improvement Attachment:**

## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** YES

**New Road Map:**

PROPOSED_ROUTE_FOOTAGE_20241126141536.pdf
ROCK_RIDGE_MONGO_LAYOUT_20241126141540.pdf
ROCK_RIDGE_MONGO_ACCESS_ROUTE__2__20241126141547.pdf

**New road type:** COLLECTOR

**Length:** 708 Feet
**Width (ft.):** 30

**Max slope (%):** 3
**Max grade (%):** 3

**Army Corp of Engineers (ACOE) permit required?** N

**ACOE Permit Number(s):**

**New road travel width:** 25

**New road access erosion control:** To accommodate the natural drainage of the landscape, culverts or water diversions will be installed as necessary to allow proper drainage of the landscape and mitigate

**Operator Name:** 3R OPERATING LLC

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erosion. The access road and associated drainage structures will be constructed and maintained in accordance with BLM guidelines.

**New road access plan or profile prepared?** N

**New road access plan**

**Access road engineering design?** N

**Access road engineering design**

**Turnout?** N

**Access surfacing type:** OTHER

**Access topsoil source:** ONSITE

**Access surfacing type description:** Caliche

**Access onsite topsoil source depth:** 6

**Offsite topsoil source description:**

**Onsite topsoil removal process:** Bulldozer/Road Grader

**Access other construction information:** The proposed lease road traverses gently sloping terrain. The largest grade along the lease road may be approximately 3%. Existing bar ditches or any man-made ditch is not considered in determining max slope of preconstruction contours. Fencing, gates, and/or cattle guards may be installed as necessary per agreement with landowner or surface managing agency.

**Access miscellaneous information:**

**Number of access turnouts:** **Access turnout map:**

## Drainage Control

**New road drainage crossing:** CULVERT

**Drainage Control comments:** The lease road will be new construction and will provide all-weather access to this property. The lease road will be maintained with a motor grader in a prudent manner as an all-weather road. Maintenance activity shall include, but not be limited to, resurfacing, reshaping, compacting, and crowning said road as necessary. Any ruts, rills, and eroded areas will be filled/repaired as necessary. Crown/ditch will be surfaced with caliche.

**Road Drainage Control Structures (DCS) description:** To accommodate the natural drainage of the landscape, culverts or water diversions will be installed as necessary to allow proper drainage of the landscape and mitigate erosion. The access road and associated drainage structures will be constructed and maintained in accordance with BLM guidelines.

**Road Drainage Control Structures (DCS) attachment:**

## Access Additional Attachments

## Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

OMRP____Rock_Ridge_Mongo_REV_20241126141803.pdf

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

## Section 4 - Location of Existing and/or Proposed Production Facilities

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** Proposed production facilities are located in the NW corner of the well pad. The exact layout and dimensions may change due to ongoing development plans. A site facility diagram will be submitted to the BLM upon the well being placed into production.
**Production Facilities map:**

ROCK_RIDGE_MONGO_WELL_FACILITIES_20241126141826.pdf

## Section 5 - Location and Types of Water Supply

### Water Source Table

**Water source type:** GW WELL

**Water source use type:** DUST CONTROL
SURFACE CASING
INTERMEDIATE/PRODUCTION CASING
STIMULATION

**Source latitude:** 32.190599 **Source longitude:** -104.058023

**Source datum:** NAD83

**Water source permit type:** WATER WELL

**Water source transport method:** PIPELINE
TRUCKING

**Source land ownership:** COMMERCIAL

**Source transportation land ownership:** COMMERCIAL

**Water source volume (barrels):** 2994729.826409 **Source volume (acre-feet):** 386

**Source volume (gal):** 125778652.7092

**Water source and transportation**

Water_Caliche_Mongo_Pad_20241126141934.pdf

**Water source comments:** Water transported via temporary aboveground water line. Trucking may be used if necessary. The frac pond is located in NE/4-NW/4 of Sec. 25-24S-28E.
**New water well?** N

### New Water Well Info

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Well latitude:** **Well Longitude:** **Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):** **Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):** **Well casing type:**

**Well casing outside diameter (in.):** **Well casing inside diameter (in.):**

**New water well casing?** **Used casing source:**

**Drilling method:** **Drill material:**

**Grout material:** **Grout depth:**

**Casing length (ft.):** **Casing top depth (ft.):**

**Well Production type:** **Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

## Section 6 - Construction Materials

**Using any construction materials:** YES

**Construction Materials description:** Location will be graded and leveled with existing soil and available material deposits at proposed site. Construction material, particularly caliche, will be obtained via private contract for the construction of the well pad and lease road. Source of caliche is existing approved pit located in the NE/4-NW/4 of Sec. 26-24S-28E.

**Construction Materials source location**

## Section 7 - Methods for Handling

**Waste type:** DRILLING

**Waste content description:** Drilling mud and cuttings

**Amount of waste:** 3800 barrels

**Waste disposal frequency :** One Time Only

**Safe containment description:** Drilling mud and cuttings will be contained in a closed system. During drilling activities trenches will surround all pumps, motors, and rig such that runoff will be directed to a sump area on the well site and pumped into a haul off tank.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Disposal location description:** Third party vendor will be charged with disposal of waste (R360 Environmental Solutions). Waste will be hauled to an approved commercial disposal facility.

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Waste type:** COMPLETIONS/STIMULATION

**Waste content description:** Water associated with completion of the well.

**Amount of waste:** 1000 barrels

**Waste disposal frequency :** Weekly

**Safe containment description:** Completion water will be held in permanent above ground storage tanks on the well pad. The tank(s) will be contained by appropriate secondary containment.
**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
**Disposal type description:**

**Disposal location description:** Third party vendor will be charged with disposal of waste (R360 Environmental Solutions). Waste will be hauled to an approved commercial disposal facility.

**Waste type:** SEWAGE

**Waste content description:** Sewage associated with active drilling and completions operations.

**Amount of waste:** 1000 gallons

**Waste disposal frequency :** Weekly

**Safe containment description:** All sewage will be held in onsite portable restrooms.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
**Disposal type description:**

**Disposal location description:** Third party vendor will be charged with disposal of waste (R360 Environmental Solutions). Waste will be hauled to an approved commercial disposal facility.

**Waste type:** GARBAGE

**Waste content description:** Garbage produced during drilling and completions.

**Amount of waste:** 1000 pounds

**Waste disposal frequency :** Weekly

**Safe containment description:** All garbage will be contained either in trash cans or dumpsters onsite.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
**Disposal type description:**

**Disposal location description:** Third party vendor will be charged with disposal of waste (R360 Environmental Solutions). Waste will be hauled to an approved commercial disposal facility.

**Waste type:** PRODUCED WATER

**Waste content description:** Water produced from the target formation.

**Amount of waste:** 1000 barrels

**Waste disposal frequency :** Daily

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Safe containment description:** Water produced form target formation will be held in permanent above ground storage tanks on the well pad. The tank(s) will be contained by appropriate secondary containment.
**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
**Disposal type description:**

**Disposal location description:** TBD - Disposal will occur at a regional wastewater disposal facility designed and approved to dispose of oilfield wastewater.

## Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?** NO

**Reserve pit length (ft.)** **Reserve pit width (ft.)**

**Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

## Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** N

**Description of cuttings location**

**Cuttings area length (ft.)** **Cuttings area width (ft.)**

**Cuttings area depth (ft.)** **Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

## Section 8 - Ancillary

**Are you requesting any Ancillary Facilities?:** N

**Ancillary Facilities**

**Comments:**

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

## Section 9 - Well Site

**Well Site Layout Diagram:**

Rig_Layout_20241119153251.pdf

ROCK_RIDGE_MONGO_WELL_PAD_20241126142041.pdf

ROCK_RIDGE_MONGO_PAD_DESIGN_20241126142046.pdf

ROCK_RIDGE_MONGO_LAYOUT_20241126142050.pdf

**Comments:**

## Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** Rock Ridge-Mongo

**Multiple Well Pad Number:** 1

**Recontouring**

ROCK_RIDGE_MONGO_PAD_DESIGN_20241126142058.pdf

**Drainage/Erosion control construction:** To mitigate erosion and protect the natural drainage areas, erosion control methods (e.g. cut and fill ratios of 3:1) will be implemented during the construction and production phases of this project. The slopes of the well pad may be reseeded or replanted per agreement with the landowner or surface managing agency. Erosion mitigation such as berms, silt fences, and hay bales will be located as necessary around the well pad.

**Drainage/Erosion control reclamation:** To mitigate erosion and protect the natural drainage areas, erosion control methods (e.g. cut and fill ratios of 3:1) will be implemented during the construction and production phases of this project. The slopes of the well pad may be reseeded or replanted per agreement with the landowner or surface managing agency. Erosion mitigation such as berms, silt fences, and hay bales will be located as necessary around the well pad.

| | | |
|---|---|---|
| **Well pad proposed disturbance (acres):** 5.22 | **Well pad interim reclamation (acres):** 0 | **Well pad long term disturbance (acres):** 5.22 |
| **Road proposed disturbance (acres):** 0.49 | **Road interim reclamation (acres):** 0 | **Road long term disturbance (acres):** 0.49 |
| **Powerline proposed disturbance (acres):** 0 | **Powerline interim reclamation (acres):** 0 | **Powerline long term disturbance (acres):** 0 |
| **Pipeline proposed disturbance (acres):** 0 | **Pipeline interim reclamation (acres):** 0 | **Pipeline long term disturbance (acres):** 0 |
| **Other proposed disturbance (acres):** 0.3 | **Other interim reclamation (acres):** 0 | **Other long term disturbance (acres):** 0.3 |
| **Total proposed disturbance:** 6.01 | **Total interim reclamation:** 0 | **Total long term disturbance:** 6.01 |

**Disturbance Comments:**

**Reconstruction method:** The operator does not intend to downsize this well location at this time due to plans of future oil and gas development (Additional development currently in planning stages; potential future wellheads proposed to be co-located on well pad). In the event that it later becomes necessary to downsize or reclaim the well pad, the following methods will be implemented. The operator will restore topsoil to its original condition. The operator will backfill, level, and restore site to original contours with segregation of spoiled materials as needed. The operator will rehabilitate all disturbed areas. All areas of reclamation will be rehabilitated as per agreement with private surface owner or surface managing agency. Upon abandonment of the well, all waste will be hauled away and disposed of in an approved manner. All equipment and salvageable material will be removed from the drill site. All debris generated from the drilling and operating of the well, which is unsuited for burial at an approved landfill, will be disposed of according to applicable

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**Well Name:** MONGO 25 FED COM **Well Number:** 802H

regulations. Cleaning operations will commence with completion of drilling activity and should be completed in approximately 10 days. The drill site will be restored as near as practicable to its reconstruction condition and topography. All surface drainage patterns, which may be affected by the proposed action, will be shaped and restored to preconstruction conditions. The soil will be graded and tilled to prepare its surface for seedbed in accordance with the applicable regulatory and conservation agencies. Erosion control techniques will be implemented when necessary. If applicable, construction of all pipelines will be in accordance with standard pipeline industry practices to assure prudent and safe operations and use of the land and in accordance with the conditions and stipulations of the BLM. The right-of-ways will be graded as necessary to provide a suitable work surface.

**Topsoil redistribution:** The operator does not intend to downsize this well location at this time due to plans of future oil and gas development (Additional development currently in planning stages; potential future wellheads proposed to be co-located on well pad). In the event that it later becomes necessary to downsize or reclaim the well pad, topsoil will be redistributed after the well pad has been returned to original contours, or as close as practical.

**Soil treatment:** No soil treatment will be needed.

**Existing Vegetation at the well pad:** The project area is located within the Chihuahuan Basins & Playas Level IV Ecoregion and situated in arid rangeland consisting of scrubland and sparse desert grassland communities. Topography is gently sloping. Land use within and surrounding the project area is primarily limited to oil & gas development. Dominant species are creosote bush (Larrea tridentata) and honey mesquite (Neltuma glandulosa).

**Existing Vegetation at the well pad**

**Existing Vegetation Community at the road:** The project area is located within the Chihuahuan Basins & Playas Level IV Ecoregion and situated in arid rangeland consisting of scrubland and sparse desert grassland communities. Topography is gently sloping. Land use within and surrounding the project area is primarily limited to oil & gas development. Dominant species are creosote bush (Larrea tridentata) and honey mesquite (Neltuma glandulosa).

**Existing Vegetation Community at the road**

**Existing Vegetation Community at the pipeline:** N/A

**Existing Vegetation Community at the pipeline**

**Existing Vegetation Community at other disturbances:** OTHER: TOPSOIL STOCKPILE SOUTH END OF WELL PAD (Approx. 450' x 30'). The project area is located within the Chihuahuan Basins & Playas Level IV Ecoregion and situated in arid rangeland consisting mostly of scrub communities. Topography is gently sloping. Land use within and surrounding the project area is primarily limited to oil & gas development. Dominant species are creosote bush (Larrea tridentata) and honey mesquite (Neltuma glandulosa).
**Existing Vegetation Community at other disturbances**

**Non native seed used?**

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?**

**Seedling transplant description**

**Will seed be harvested for use in site reclamation?**

**Seed harvest description:**

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Seed harvest description attachment:**

## Seed

### Seed Table

### Seed Summary

**Total pounds/Acre:**

| Seed Type | Pounds/Acre |
|---|---|

**Seed reclamation**

## Operator Contact/Responsible Official

**First Name:** **Last Name:**

**Phone:** **Email:**

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species?** N

**Existing invasive species treatment description:**

**Existing invasive species treatment**

**Weed treatment plan description:** Weeds will be mowed regularly to prevent them from becoming the dominant species within the project area.
**Weed treatment plan**

**Monitoring plan description:** The project location will be periodically monitored by the operator's staff that are responsible for infrastructure maintenance.
**Monitoring plan**

**Success standards:** Develop sufficient plant and root coverage to minimize erosion and maximize sediment control. Comply with surface managing agency directives.
**Pit closure description:** N/A

**Pit closure attachment:**

## Section 11 - Surface Ownership

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** BLM; NM SLO

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

## Section 12 - Other

**Right of Way needed?** N **Use APD as ROW?**

**ROW Type(s):**

## ROW

**SUPO Additional Information:** PAY.GOV RECEIPT ATTACHED

**Use a previously conducted onsite?** Y

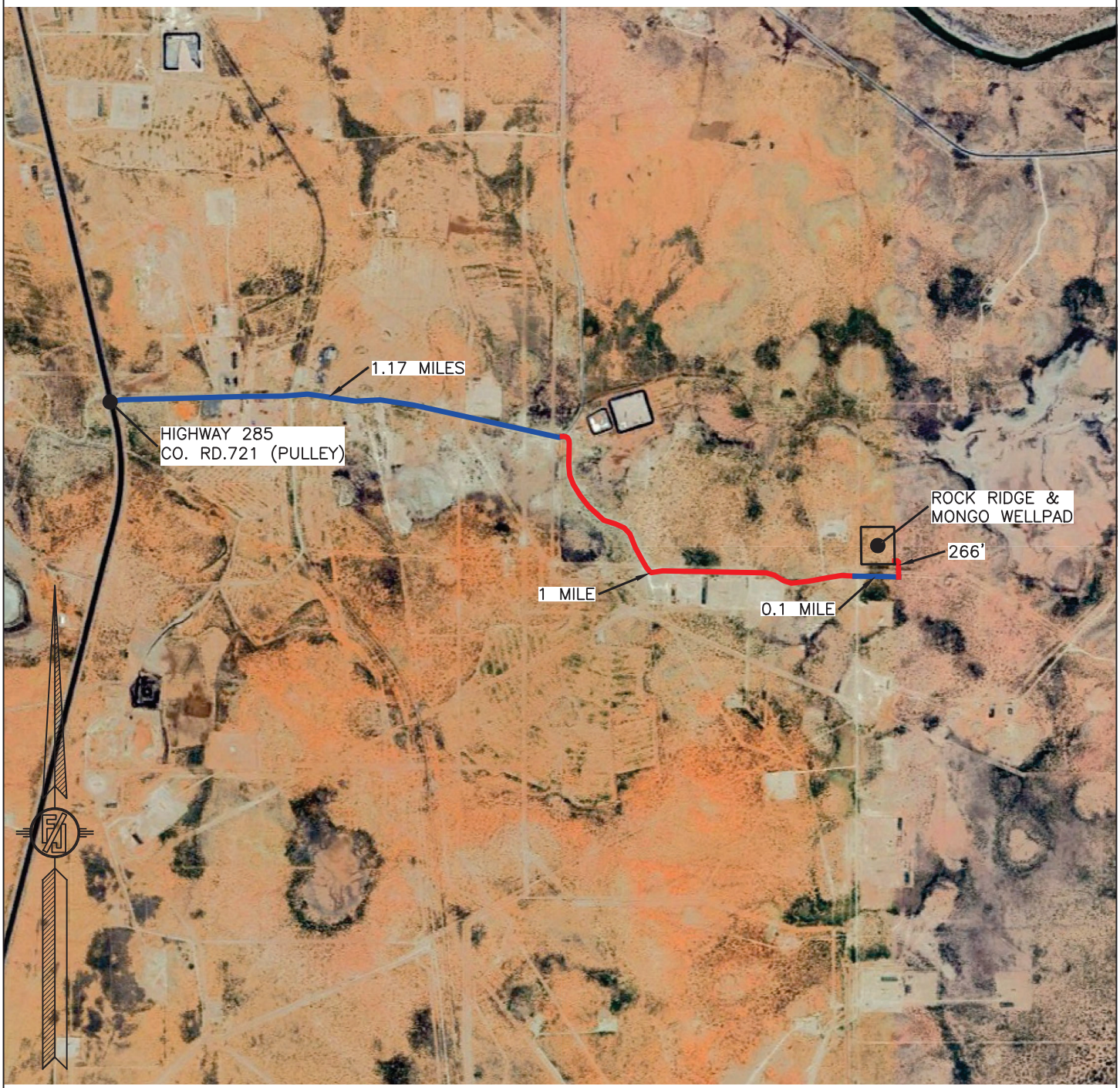
**Previous Onsite information:** The well pad and access road layout were previously permitted for multiple APDs, including the ROCK RIDGE FED COM BSS 13H (APD ID: 10400073277) and 14H (APD ID: 10400073296). Said AAPDs are still valid. The addition of the currently proposed APD is intended to utilize the same project surface analysis previously completed. Because site-specific NEPA analysis has already been completed, the addition of this APD should qualify for expedited surface review via CX. Per previous permits, onsite review completed by BLM on 1-5-21.

## Other SUPO

Pay.gov_703H___802H_11.22.24_20241126142434.pdf

# 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
## OCTOBER 29, 2024

## 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. 10334*

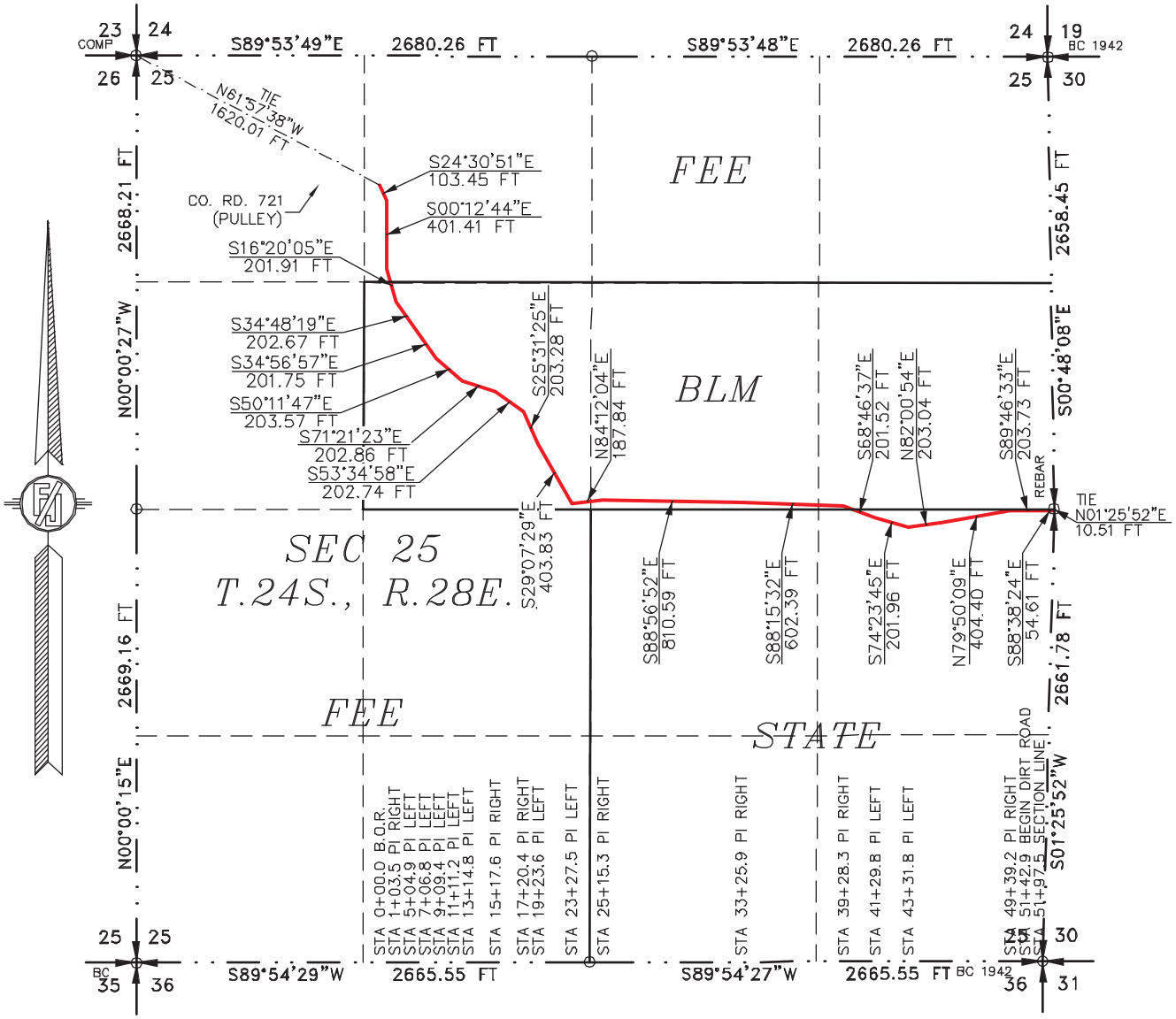
*MADRON SURVEYING, INC.* 301 SOUTH CANAL (575) 234-3327 *CARLSBAD, NEW MEXICO*

# 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
OCTOBER 29, 2024




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 [illegible] DAY OF NOVEMBER 2024

FILIMON F. JARAMILLO NEW MEXICO 12797 REGISTERED PROFESSIONAL SURVEYOR

FILIMON F. JARAMILLO PLS 12797

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

SHEET: 1-4

SURVEY NO. 10334

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
OCTOBER 29, 2024

## 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 [illegible] DAY OF NOVEMBER 2024

FILIMON F. JARAMILLO PLS 12797

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



SURVEY NO. 10334

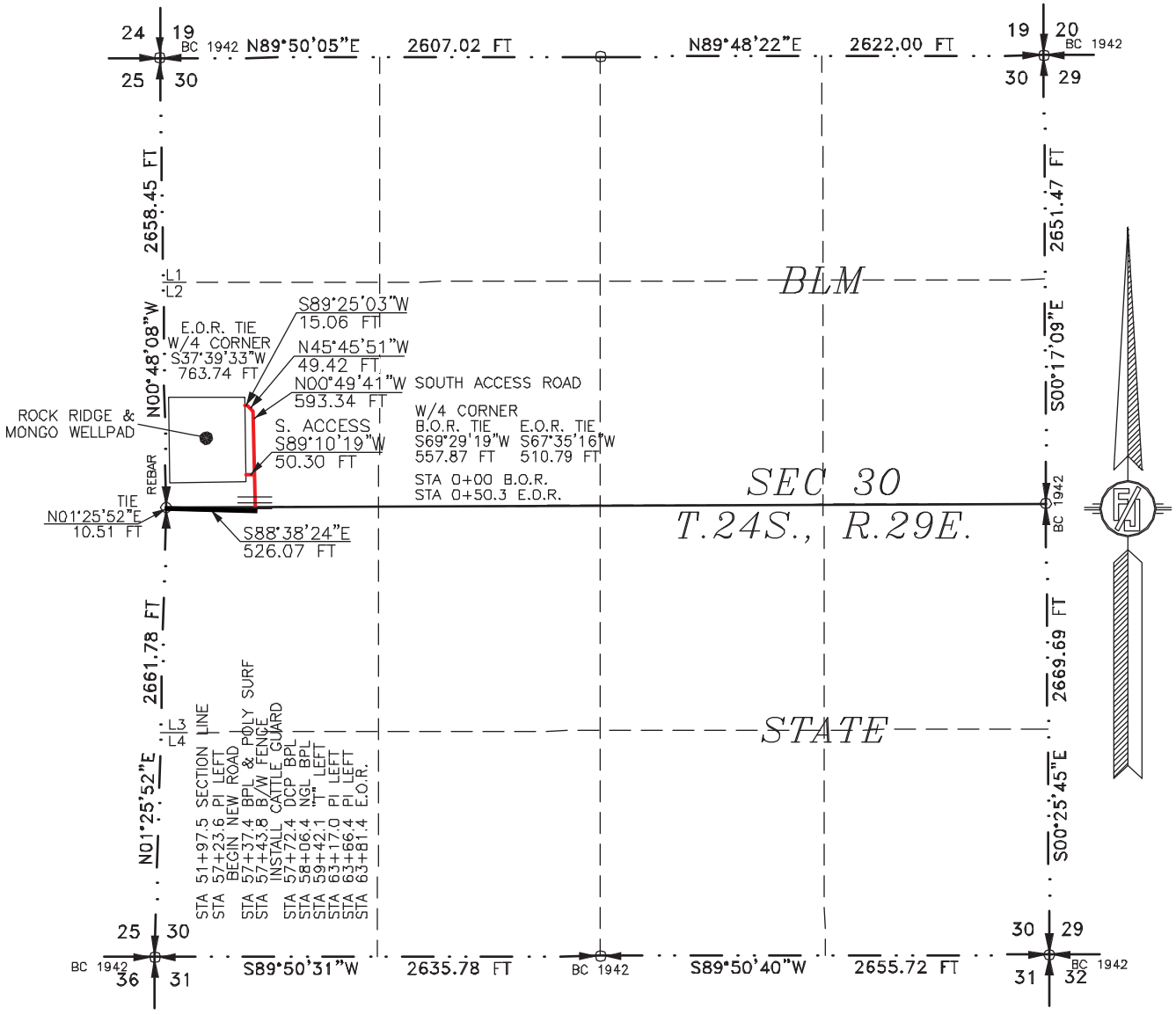
MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

# 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
OCTOBER 29, 2024




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 1ST DAY OF NOVEMBER 2024

FILIMON F. JARAMILLO PLS 12797

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

SHEET: 3-4

SURVEY NO. 10334

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
### OCTOBER 29, 2024

## 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 [illegible] DAY OF NOVEMBER 2024

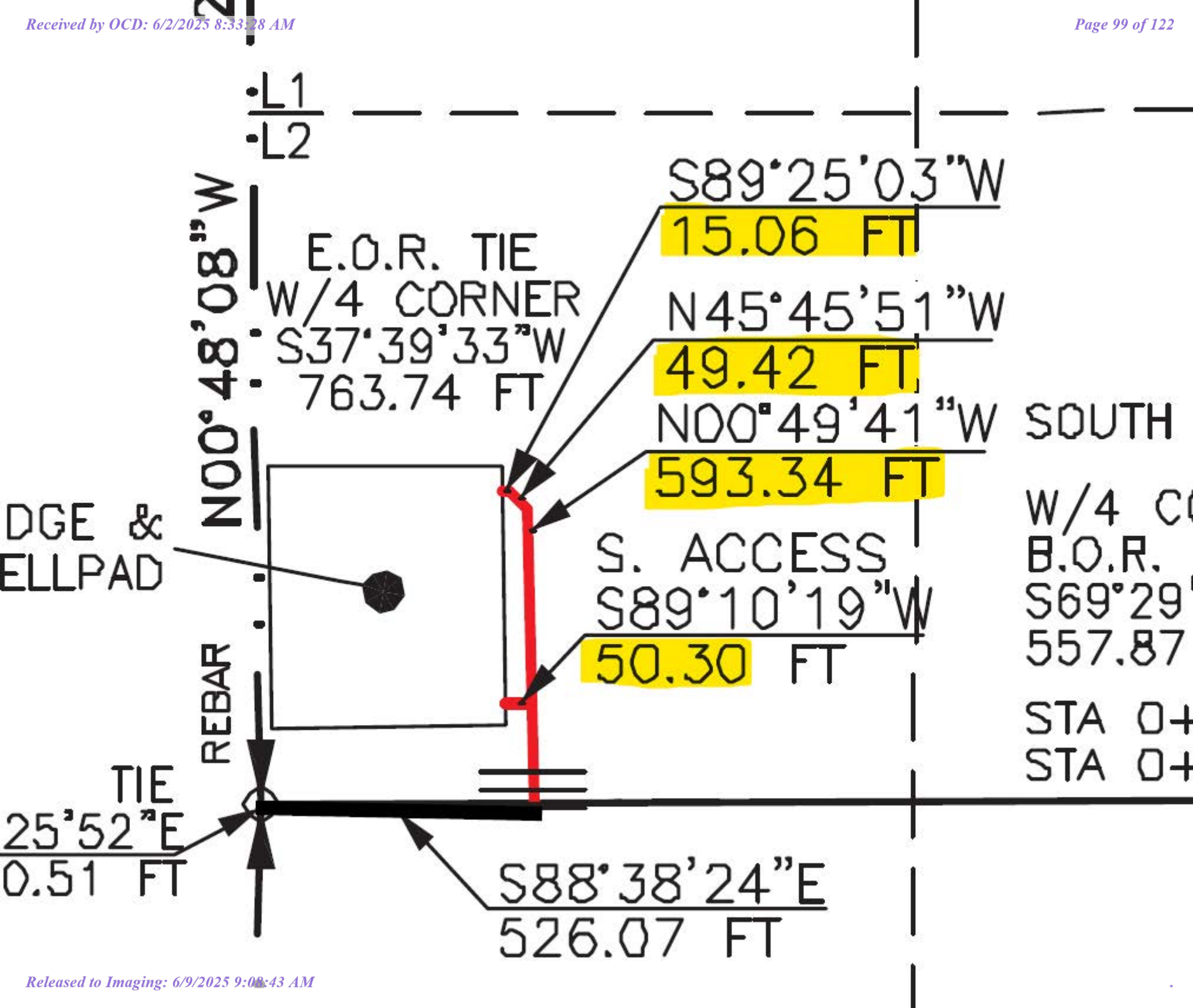
FILIMON F. JARAMILLO PLS 12797

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

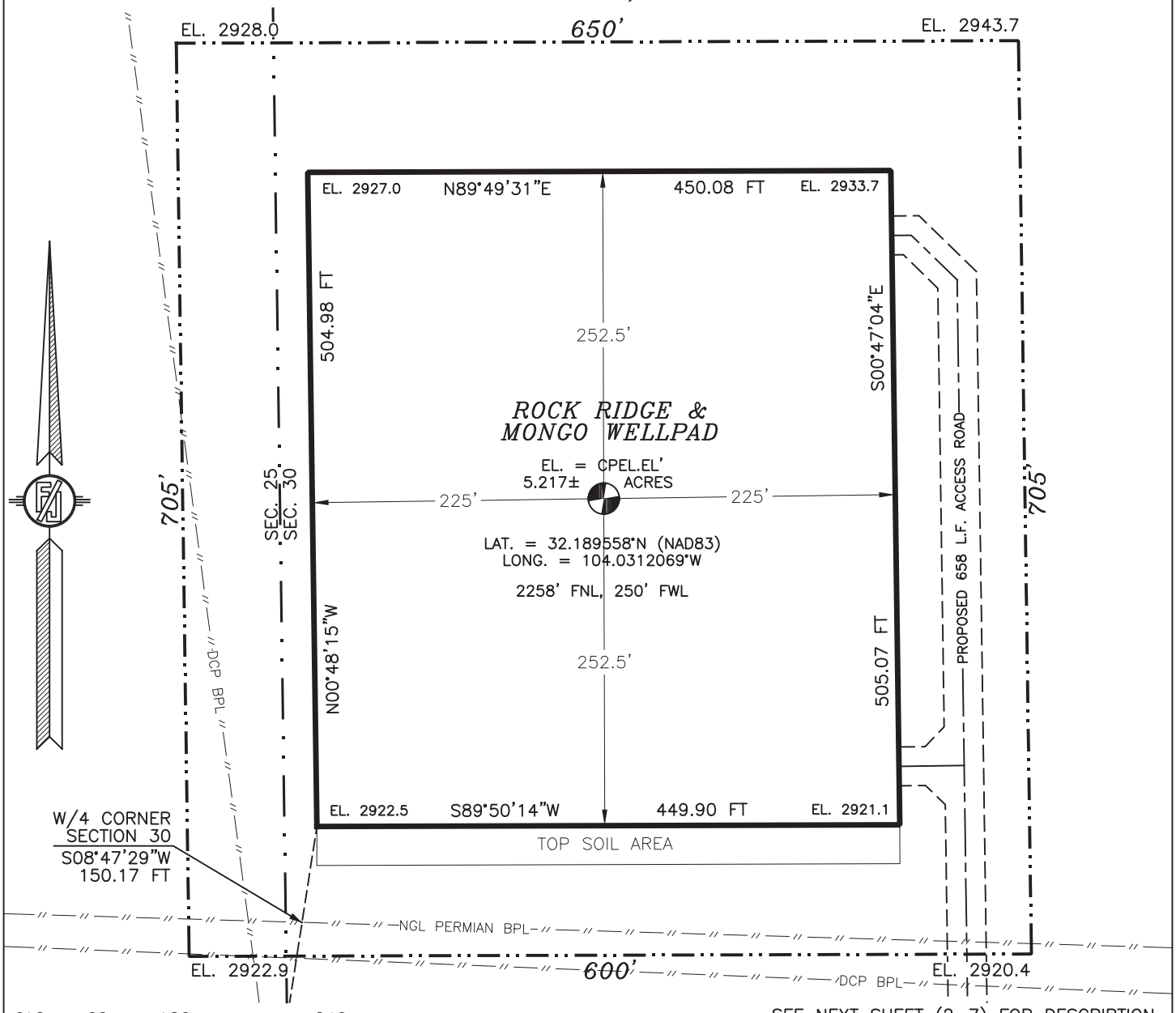
SHEET: 4-4

SURVEY NO. 10334

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO


L1
L2
S89°25'03"W
15.06 FT
E.O.R. TIE
W/4 CORNER
S37°39'33"W
763.74 FT
N45°45'51"W
49.42 FT
N00°49'41"W
593.34 FT
N00°48'08"W
SOUTH
W/4 C
B.O.R.
S69°29
557.87
DGE &
ELLPAD
S. ACCESS
S89°10'19"W
50.30 FT
REBAR
STA 0+
STA 0+
TIE
25'52"E
0.51 FT
S88°38'24"E
526.07 FT

# 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
## OCTOBER 29, 2024




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 21 DAY OF NOVEMBER 2024

FILIMON F. JARAMILLO NEW MEXICO 12797 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: 1–7

SURVEY NO. 10334

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
## OCTOBER 29, 2024

## 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 [illegible] DAY OF NOVEMBER 2024

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

FILIMON F. JARAMILLO
NEW MEXICO
12797
REGISTERED PROFESSIONAL SURVEYOR

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

SHEET: 2-7

SURVEY NO. 10334

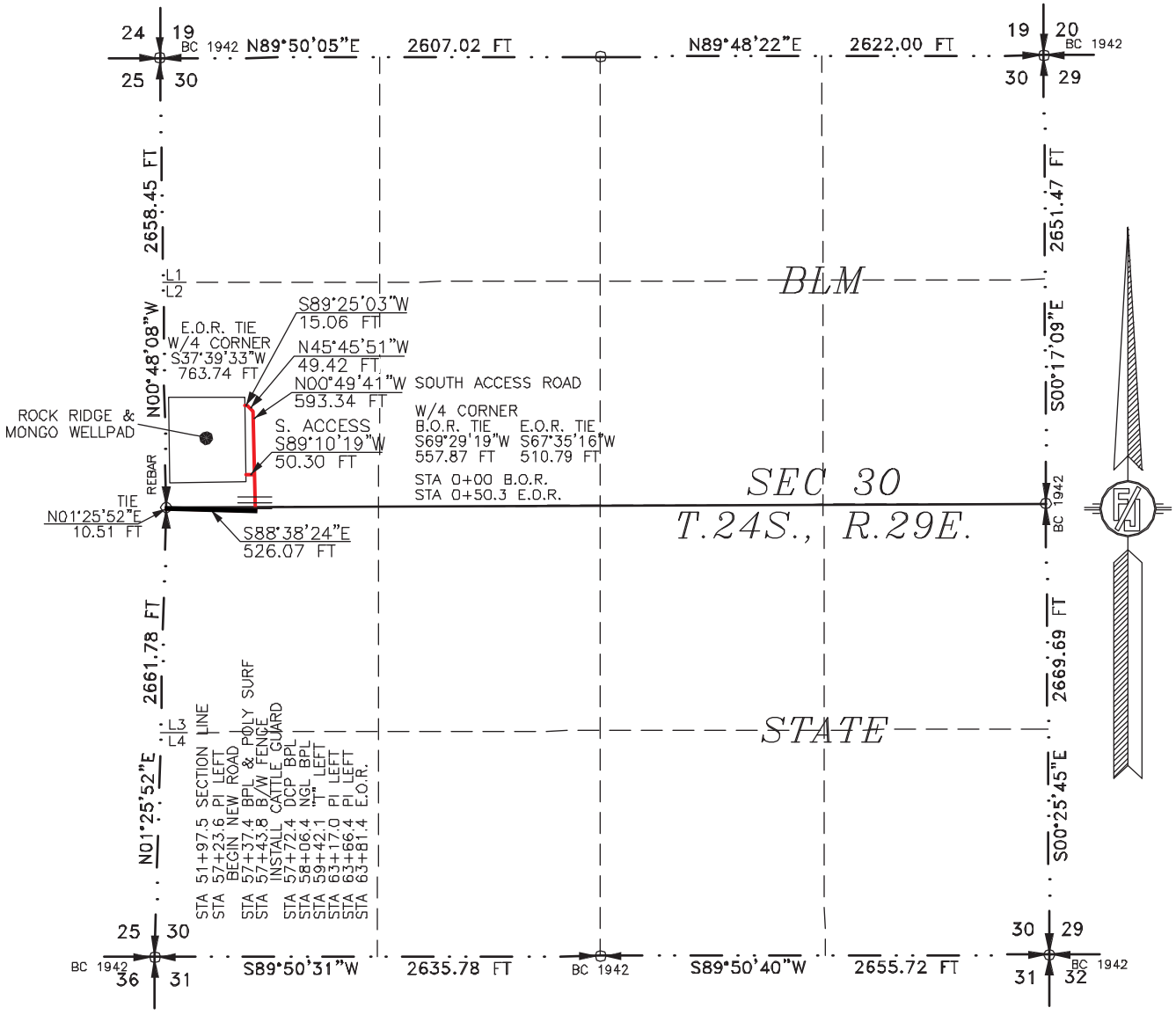
MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

# 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
OCTOBER 29, 2024




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 21ST DAY OF NOVEMBER 2024

FILIMON F. JARAMILLO PLS 12797

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

SHEET: 3-4

SURVEY NO. 10334

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
OCTOBER 29, 2024

## 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 |

### 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 [illegible] DAY OF NOVEMBER 2024

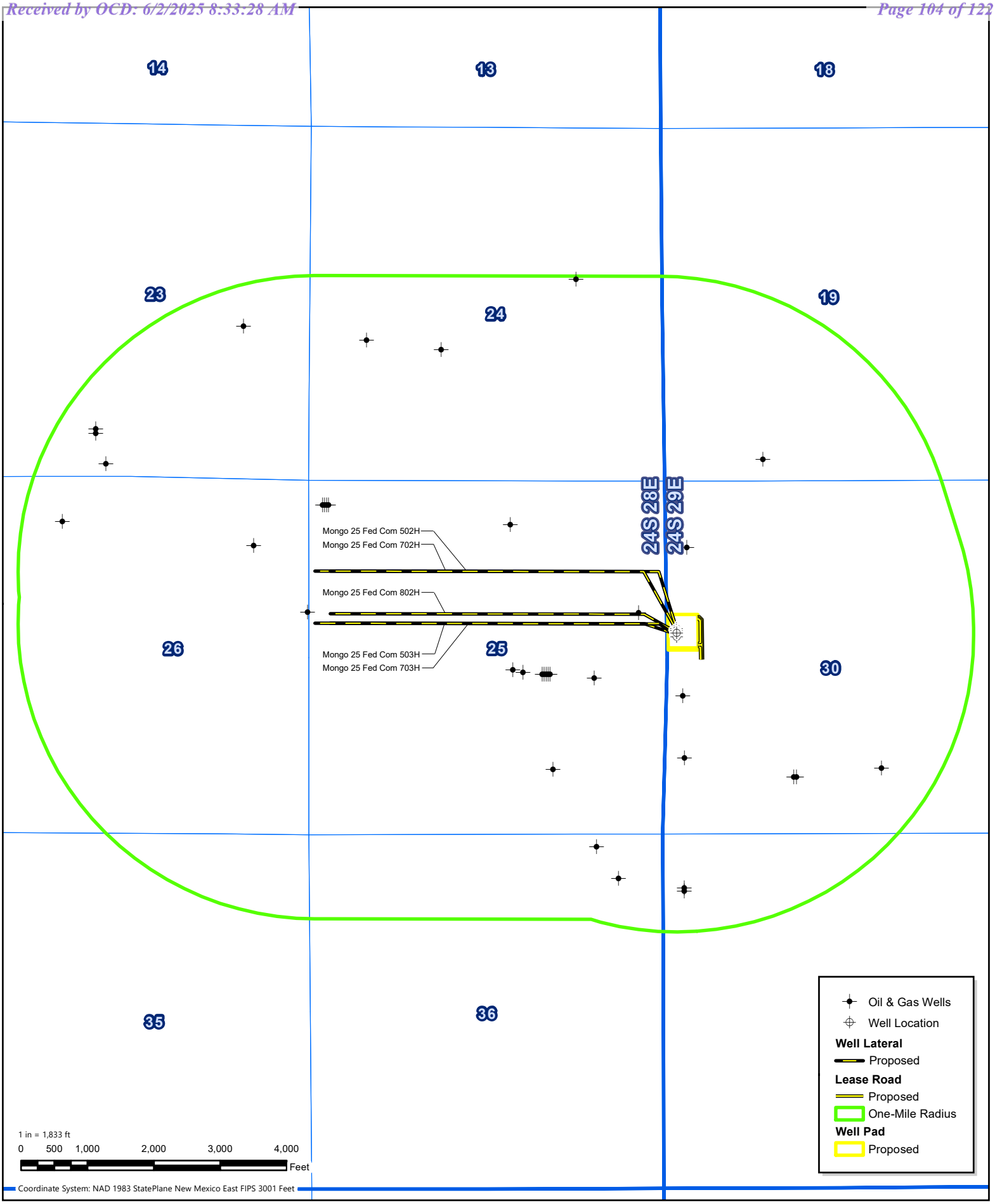
FILIMON F. JARAMILLO PLS 12797

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

### 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.




REAGAN SMITH

One-Mile Radius Plat
Rock Ridge-Mongo Pad
3R Operating, LLC
Sec. 30-T24S-R29E, Eddy County, New Mexico

This map is a user generated static output from Reagan Smitht and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

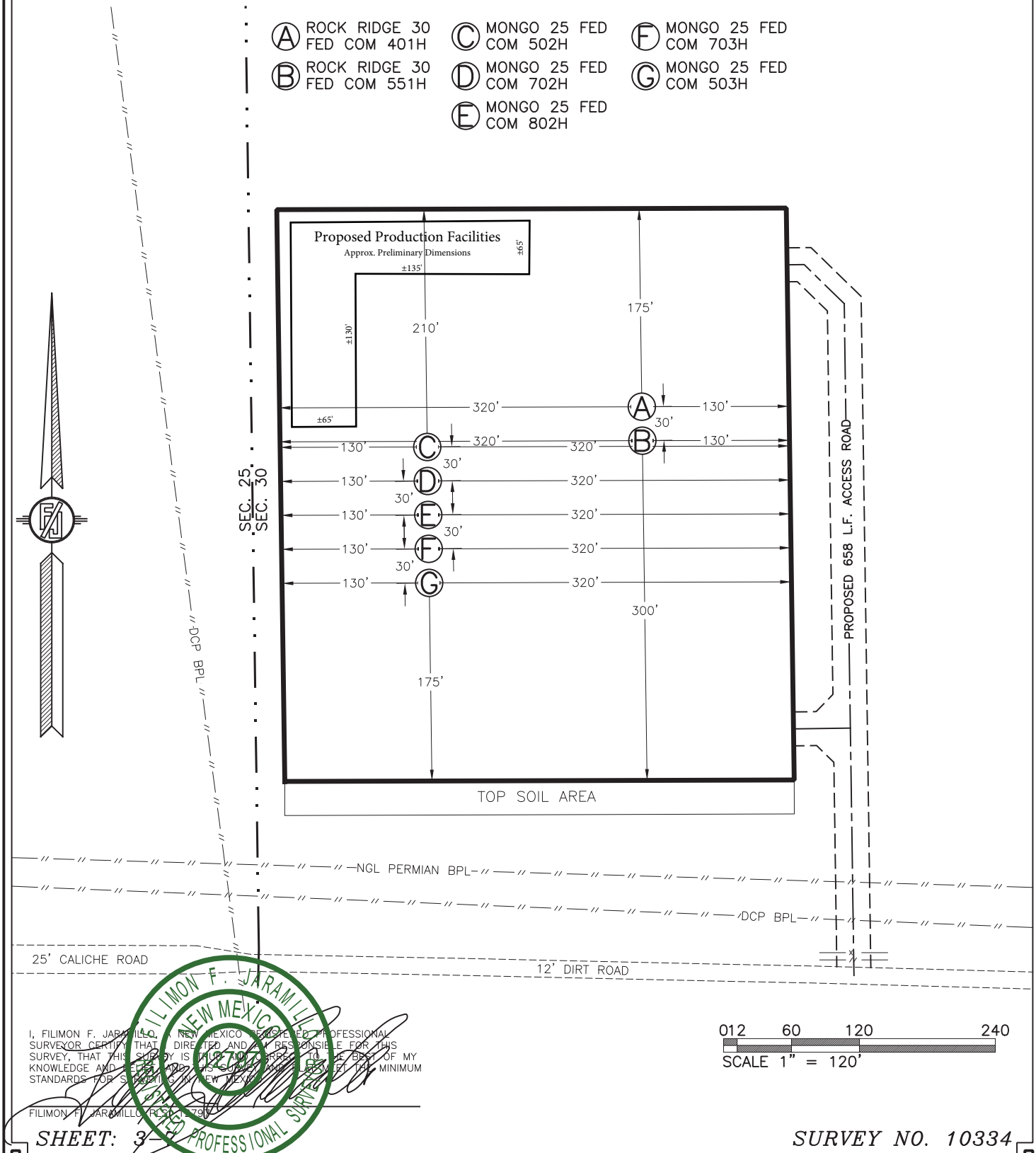
N

Path: C:\...\17402 - Crystal N Pad, McMuffin Pads\MXD\McMuffinPad_SSPS.mxd
Author:
Date: 11/25/2024

# 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
## OCTOBER 29, 2024

## SITE MAP

Ⓐ ROCK RIDGE 30 FED COM 401H
Ⓑ ROCK RIDGE 30 FED COM 551H
Ⓒ MONGO 25 FED COM 502H
Ⓓ MONGO 25 FED COM 702H
Ⓔ MONGO 25 FED COM 802H
Ⓕ MONGO 25 FED COM 703H
Ⓖ MONGO 25 FED COM 503H




012 60 120 240
SCALE 1" = 120'

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 MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO, PLS# 17078

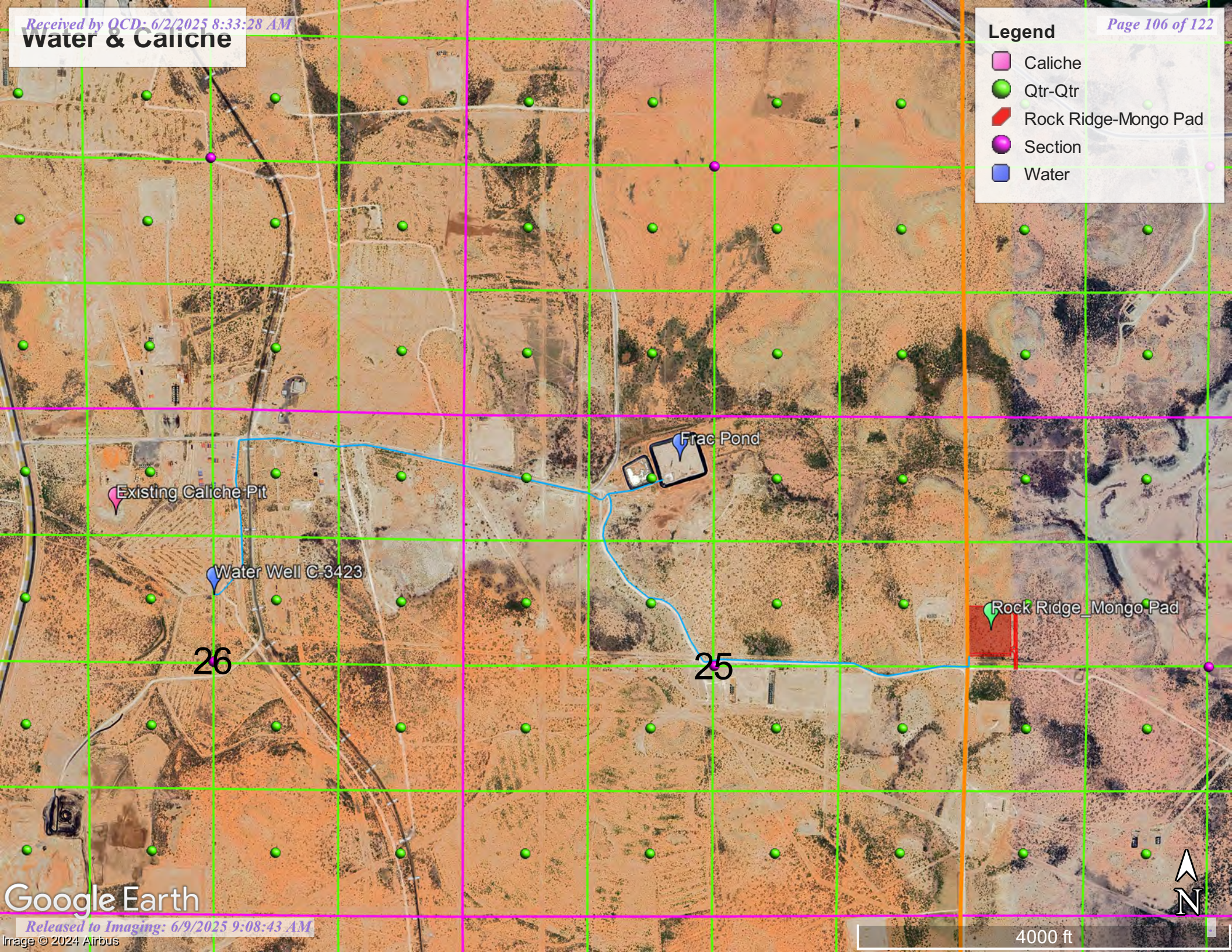
FILIMON F. JARAMILLO NEW MEXICO 17078 REGISTERED PROFESSIONAL SURVEYOR

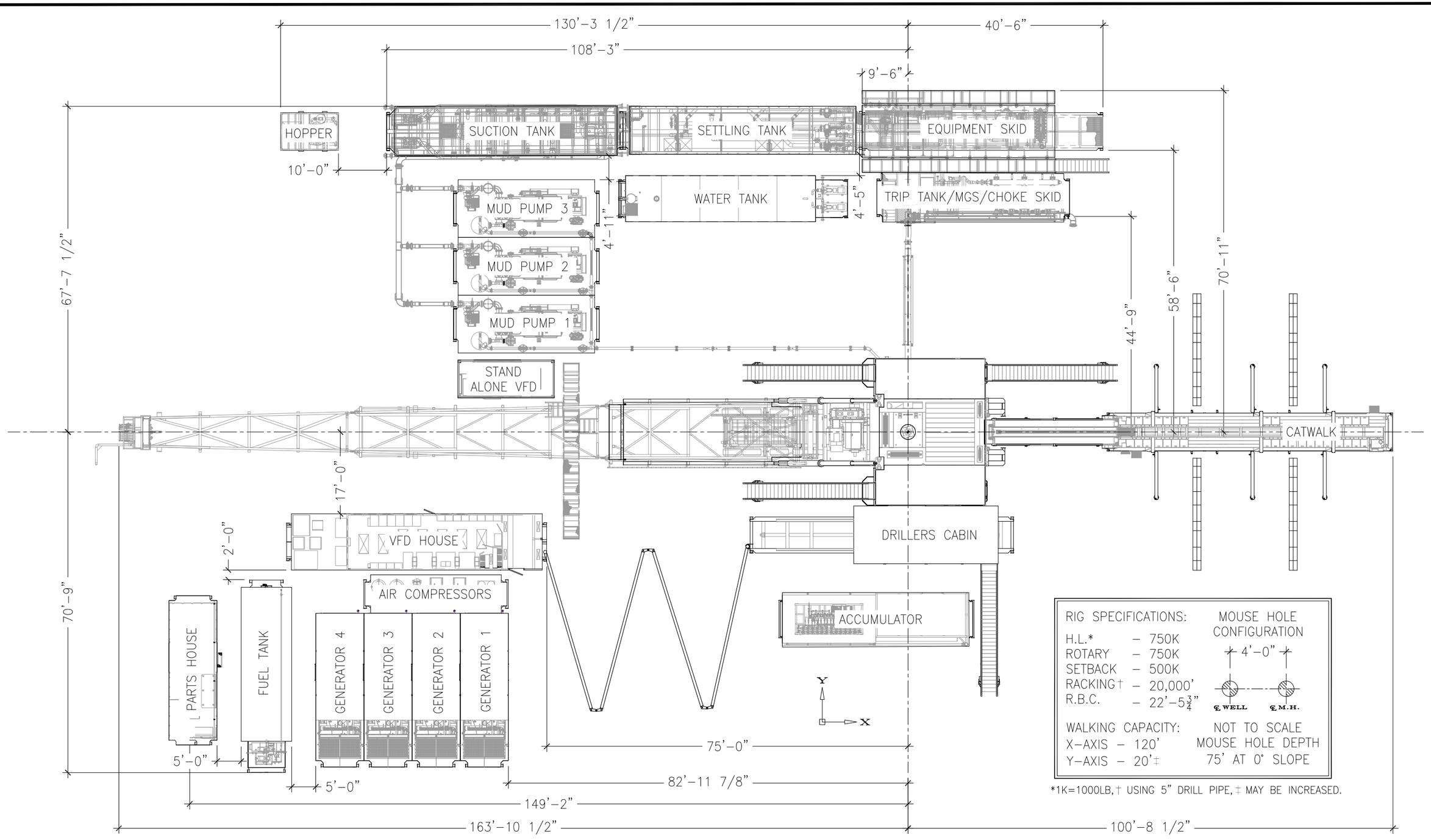
SHEET: 3 OF 3 SURVEY NO. 10334

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

# Water & Caliche








RIG SPECIFICATIONS:

| | |
|---|---|
| H.L.* | – 750K |
| ROTARY | – 750K |
| SETBACK | – 500K |
| RACKING† | – 20,000' |
| R.B.C. | – 22'–5¾" |

WALKING CAPACITY:
X–AXIS – 120'
Y–AXIS – 20'‡

MOUSE HOLE CONFIGURATION




NOT TO SCALE
MOUSE HOLE DEPTH
75' AT 0° SLOPE

*1K=1000LB, † USING 5" DRILL PIPE, ‡ MAY BE INCREASED.

REVISION HISTORY

| REV | DESCRIPTION | DATE | DRAWN BY | CHECKED BY | APPROVED BY |
|---|---|---|---|---|---|
| A | ISSUED FOR REVIEW | 02/12/2020 | MC | JM | – |
| 0 | GENERATORS CORRECTED | 03/23/2020 | MC | JM | – |
| 1 | ADDED MP3, ADDED RIG SPECS, UPDATED FORMATTING | 06/1/2020 | JM | JM | – |
| 2 | UPDATED RIG SPECS | 07/23/2020 | JM | JM | – |
| 3 | ADDED GEN 4 | 05/24/2022 | JM | JM | – |
| – | – | – | – | – | – |
| – | – | – | – | – | – |
| – | – | – | – | – | – |

UNSPECIFIED TOLERANCES

| DIMENSIONS OVER | TO | MACHINED | WELDMENT |
|---|---|---|---|
| 0 | 1.5 | ±0.008 | ±1/32 |
| 1.5 | 7.0 | ±0.010 | ±1/32 |
| 7.0 | 20.0 | ±0.020 | ±1/16 |
| 20.0 | 50.0 | ±0.030 | ±1/8 |
| 50.0 | 120.0 | ±0.060 | ±3/16 |
| 120.0 | 240.0 | ±0.080 | ±1/4 |
| ANGLES | | ±0.1° | ±0.5° |

BREAK ALL CORNERS .06 X 45°. MACHINE FINISH 250 MAX. MACHINED DIAMETERS ON SAME CENTERLINE SHALL BE COAXIAL WITHIN ⌖Ø.010 DRILLED HOLE LOCATIONS⌖Ø.060 CHAMFER ALL TAPPED HOLES 45° TO FIRST THREAD ROOT. DIMENSIONS MARKED ( ) ARE FOR GENERAL REFERENCE ONLY. NOT TO BE USED FOR CONSTRUCTION.

PROPRIETARY INFORMATION



CONTACT INFORMATION

INDEPENDENCE CONTRACT DRILLING
Corporate Office
20475 SH 249, Ste. 300
Houston, Texas 77070
Main: (281) 598–1230
www.icdrilling.com

| | |
|---|---|
| DRAWN BY: MC | DATE: 03/17/2020 |
| CHECKED BY: JM | DATE: 03/17/2020 |
| APPROVED BY: – | DATE: – |

THIRD ANGLE PROJECTION

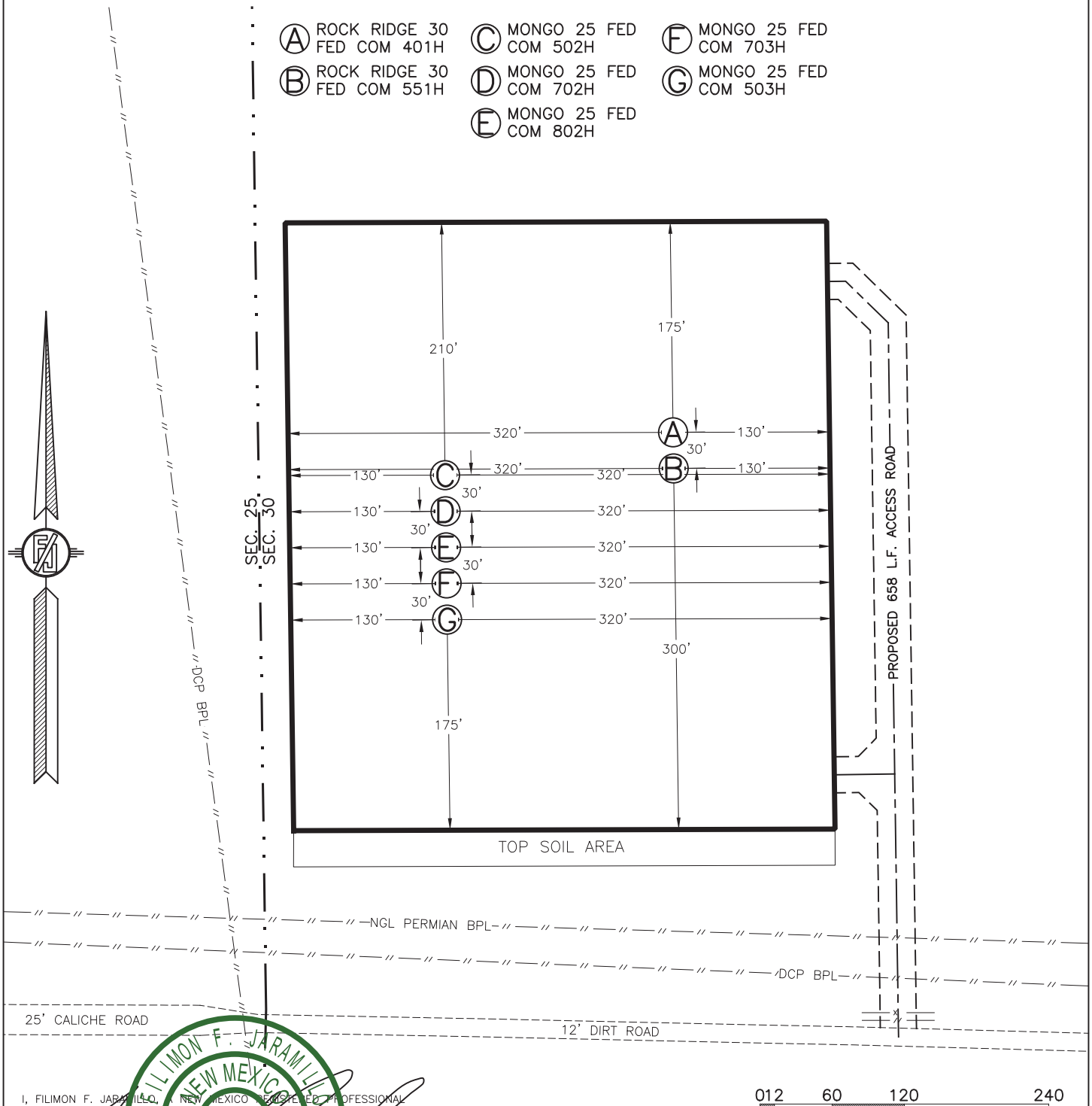
RIG 212
EQUIPMENT LAYOUT
GENERAL ARRANGEMENT

| SIZE: | SCALE (UNO): | ESTIMATED WEIGHT (LBS): |
|---|---|---|
| B | 1:225 | – |

| DWG NO. | REV: | SHEET: |
|---|---|---|
| RIG212–GA–001 | 3 | 1 OF 1 |

# 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
## OCTOBER 29, 2024

## SITE MAP




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 MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

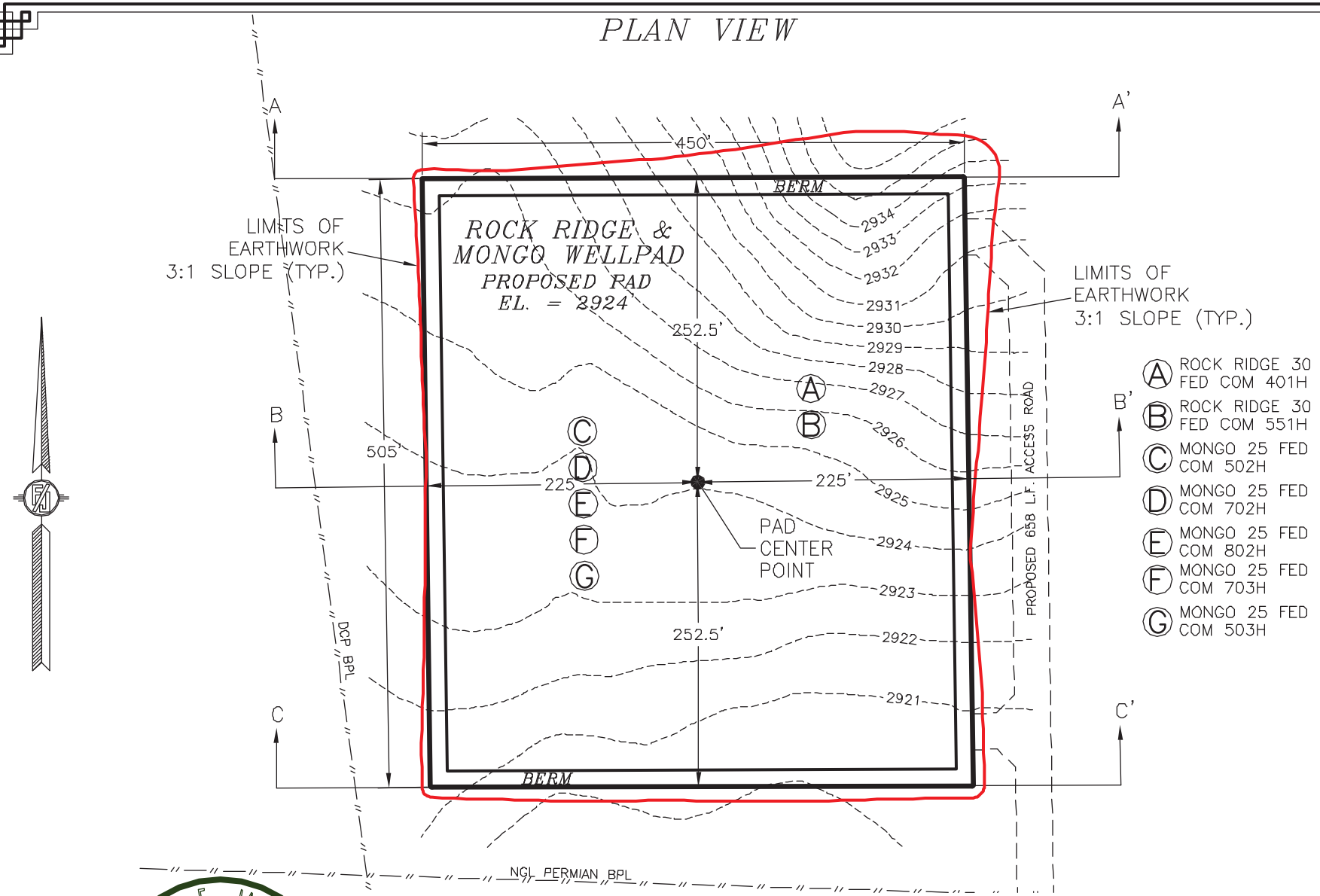
FILIMON F. JARAMILLO, PLS# 17078

012 60 120 240
SCALE 1" = 120'

SHEET: 3 OF 3 SURVEY NO. 10334

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

# PLAN VIEW

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FILIMON F. JARAMILLO, NM 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

OCTOBER 29, 2024

012 60 120 240
SCALE 1" = 120'

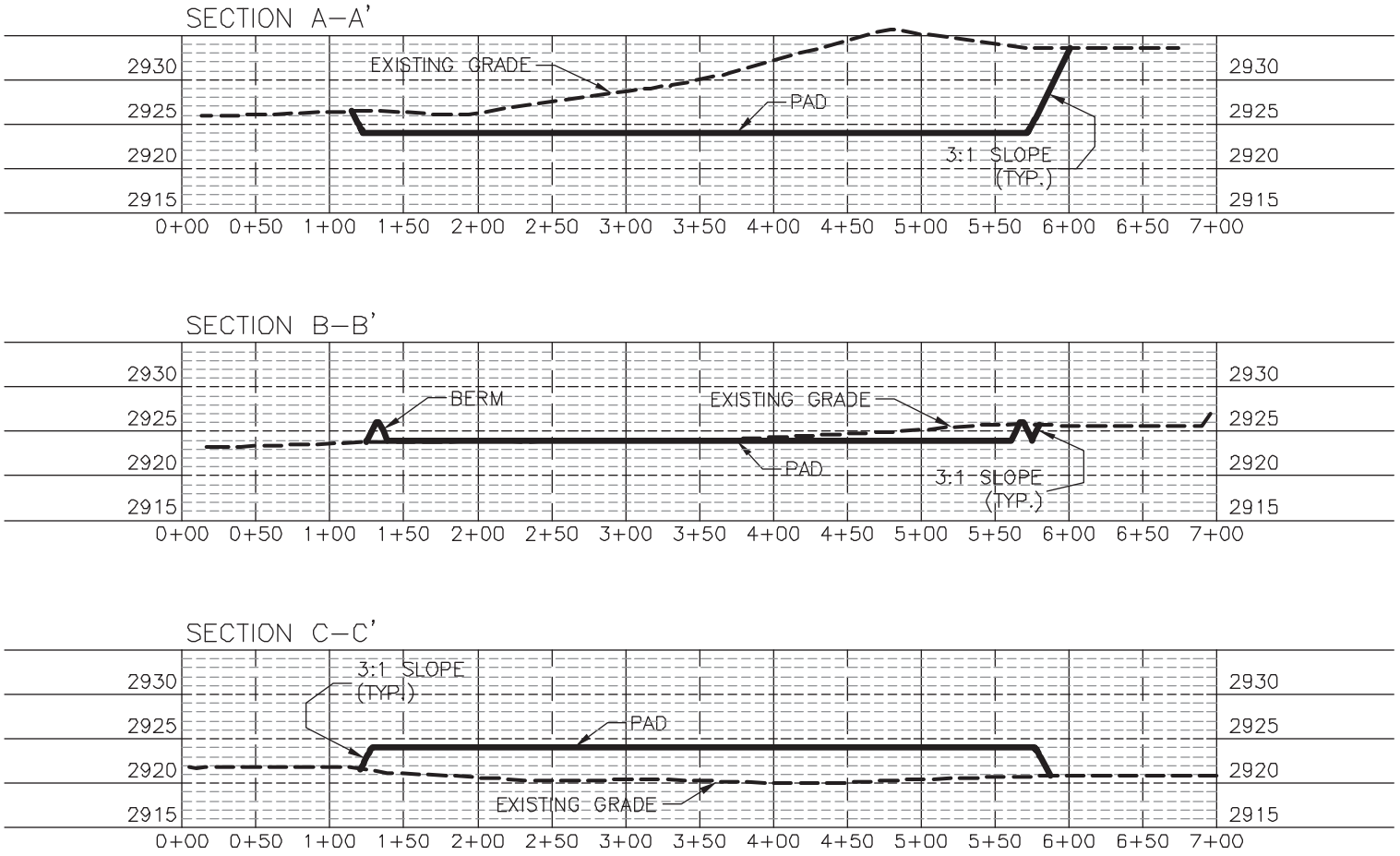
| CUT | FILL | NET |
|---|---|---|
| 15768 CU. YD | 7927 CU. YD | 7841 CU. YD (CUT) |

EARTHWORK QUANTITIES ARE ESTIMATED

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

SHEET 6-7
SURVEY NO. 10334

# CROSS-SECTIONS

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FILIMON F. JARAMILLO, NMPS 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*

*OCTOBER 29, 2024*

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

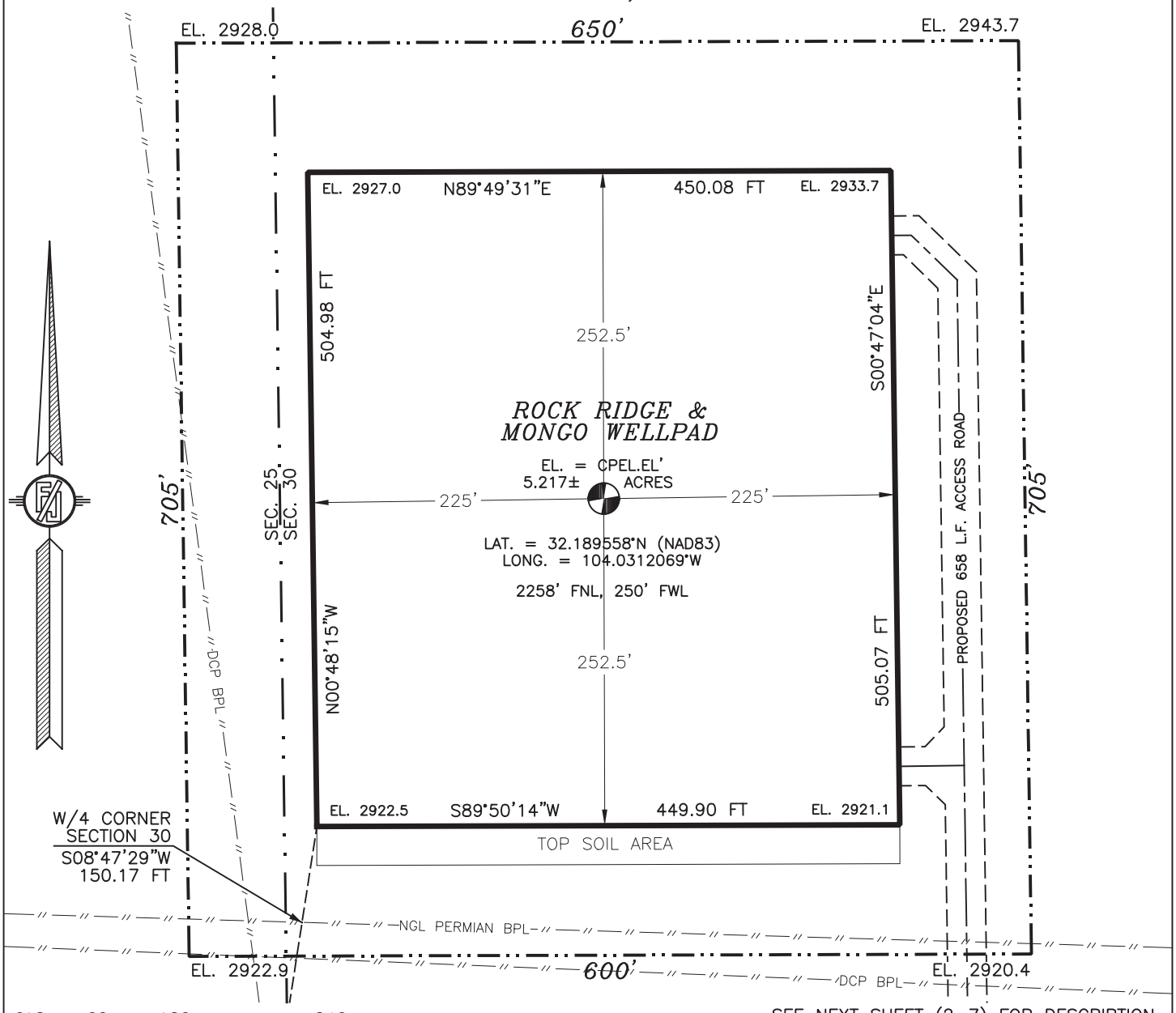
| CUT | FILL | NET |
|---|---|---|
| 15768 CU. YD | 7927 CU. YD | 7841 CU. YD (CUT) |

EARTHWORK QUANTITIES ARE ESTIMATED

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

*SHEET 7-7*
*SURVEY NO. 10334*

# 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
## OCTOBER 29, 2024




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 21 DAY OF NOVEMBER 2024

FILIMON F. JARAMILLO NEW MEXICO 12797 PROFESSIONAL SURVEYOR

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

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

SHEET: 1–7

SURVEY NO. 10334

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
## OCTOBER 29, 2024

## 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 [illegible] DAY OF NOVEMBER 2024

FILIMON F. JARAMILLO PLS 12797

301 SOUTH CANAL
(575) 234-3327

FILIMON F. JARAMILLO
NEW MEXICO
12797
REGISTERED PROFESSIONAL SURVEYOR

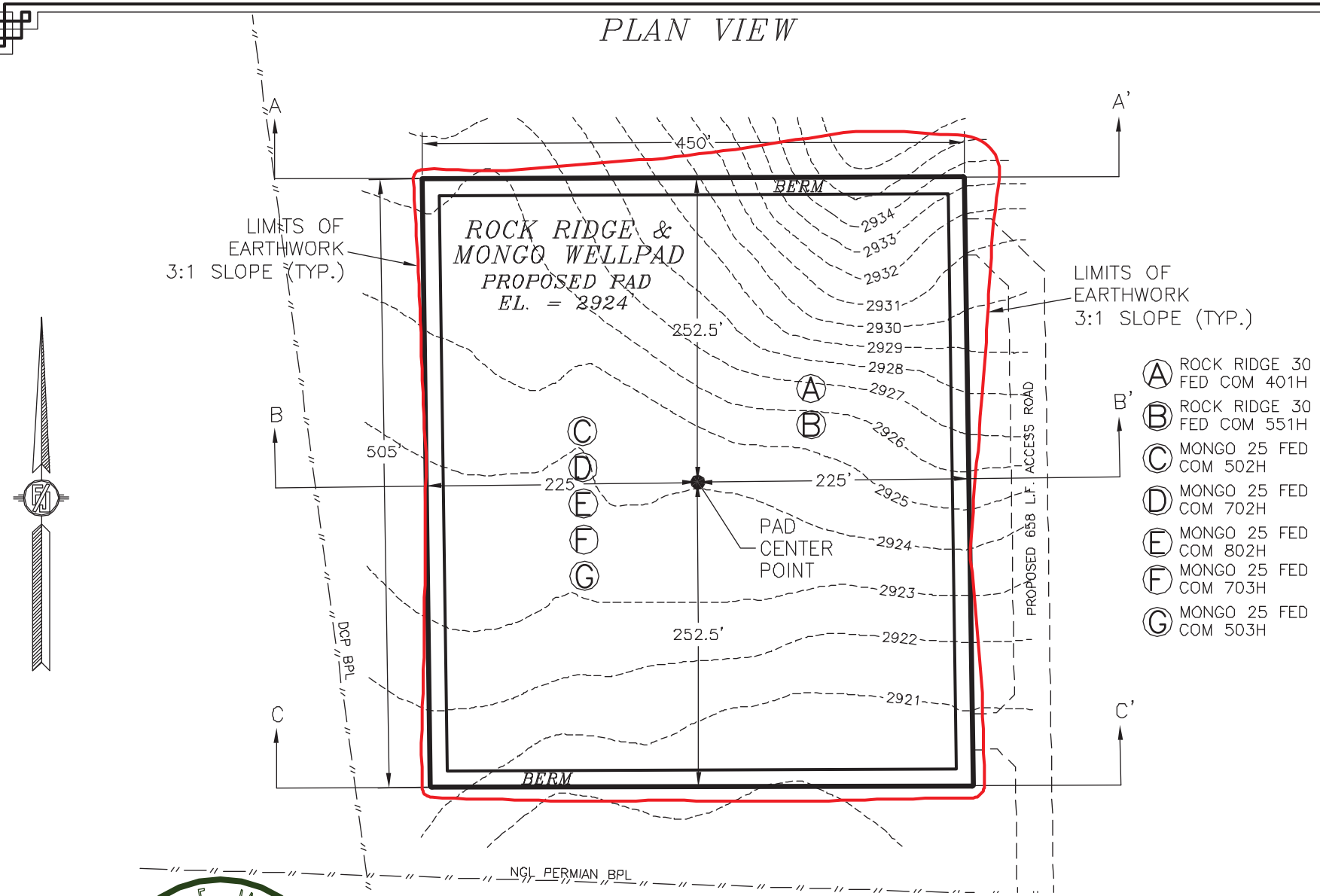
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

SHEET: 2-7

SURVEY NO. 10334

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

# PLAN VIEW




- (A) ROCK RIDGE 30 FED COM 401H
- (B) ROCK RIDGE 30 FED COM 551H
- (C) MONGO 25 FED COM 502H
- (D) MONGO 25 FED COM 702H
- (E) MONGO 25 FED COM 802H
- (F) MONGO 25 FED COM 703H
- (G) MONGO 25 FED COM 503H

I, FILIMON F. JARAMILLO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND/OR WAS 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 NM 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*

*OCTOBER 29, 2024*

012 60 120 240

SCALE 1" = 120'

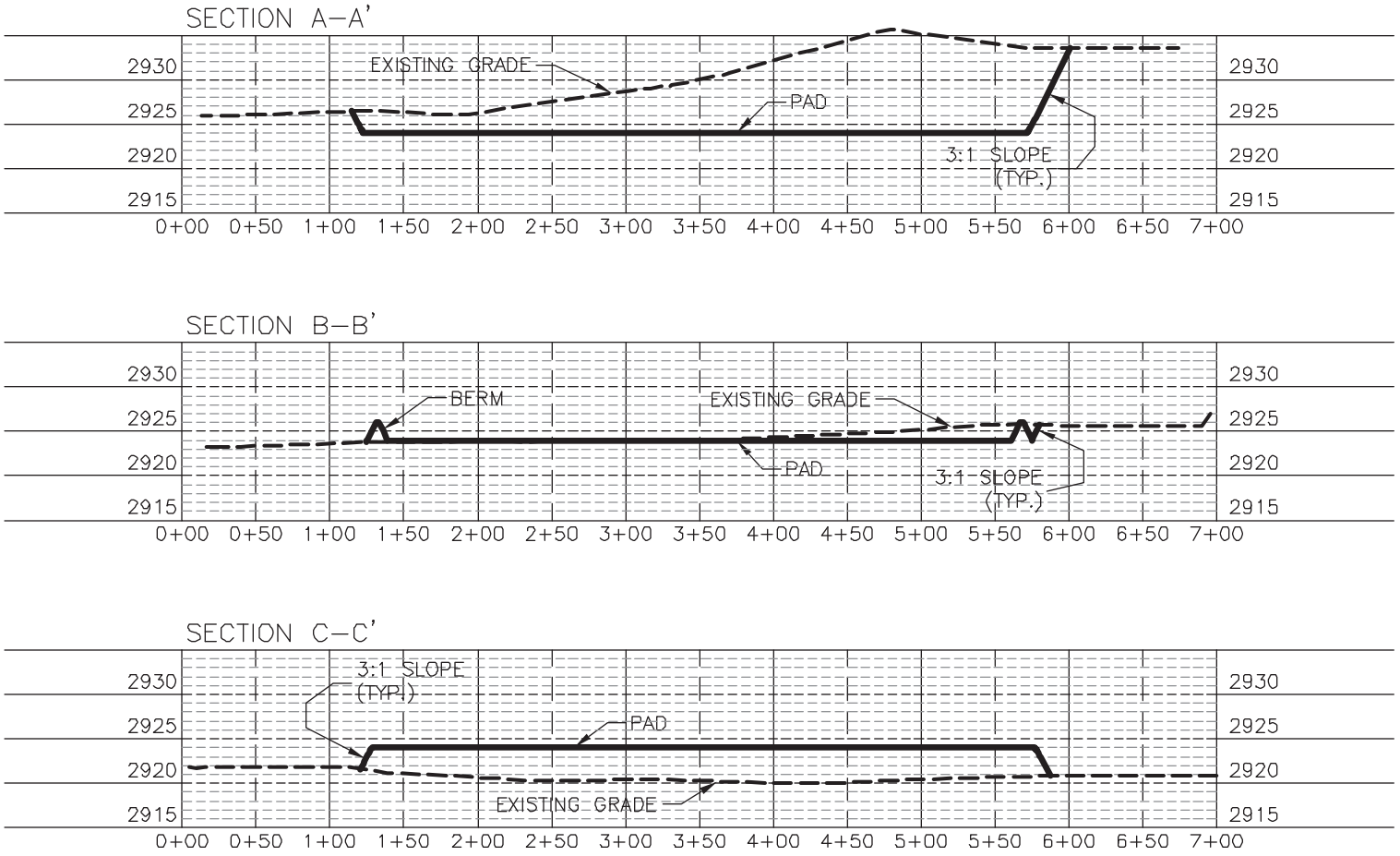
| CUT | FILL | NET |
|---|---|---|
| 15768 CU. YD | 7927 CU. YD | 7841 CU. YD (CUT) |

EARTHWORK QUANTITIES ARE ESTIMATED

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

*SHEET 6-7*
*SURVEY NO. 10334*

# CROSS-SECTIONS

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FILIMON F. JARAMILLO, NMPS 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*

*OCTOBER 29, 2024*

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

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

*SHEET 7-7*
*SURVEY NO. 10334*

Codes
17451
17452

# Confirmation

Your payment has been submitted to the designated government agency through Pay.gov and the details are below. Please note that this is just a confirmation of transaction submission. To confirm that the payment processed as expected, you may refer to your bank statement on the scheduled payment date. If you have any questions or wish to cancel this payment, you will need to contact the agency you paid at your earliest convenience.

## Tracking Information

Pay.gov Tracking ID: 27JFIVQH

Agency Tracking ID: 76889793695

Form Name: Bureau of Land Management (BLM) Application for Permit to Drill (APD) Fee

Application Name: BLM Oil and Gas Online Payment

## Payment Information

Payment Type: Bank account (ACH)

Payment Amount: $25,030.00

Transaction Date: 11/22/2024 01:17:21 PM EST

Payment Date: 11/25/2024

Company: Reagan Smith, Inc.

APD IDs: 10400102193, 10400102194

Lease Numbers: NMNM107373, NMNM107373

Well Numbers: 703H, 802H

Note: You will need your Pay.gov Tracking ID to complete your APD transaction in AFMSS II. Please ensure you write this number down upon completion of payment.

## Account Information

Account Holder Name: Reagan Smith, Inc.

Routing Number: 103103451

Account Number: **********5512

AFMSS

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

# PWD Data Report

04/29/2025

**APD ID:** 10400102194 **Submission Date:** 11/26/2024

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Well Type:** CONVENTIONAL GAS WELL **Well Work Type:** Drill

## Section 1 - General

**Would you like to address long-term produced water disposal?** NO

## Section 2 - Lined

**Would you like to utilize Lined Pit PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit**

**Pit liner description:**

**Pit liner manufacturers**

**Precipitated solids disposal:**

**Decribe precipitated solids disposal:**

**Precipitated solids disposal**

**Lined pit precipitated solids disposal schedule:**

**Lined pit precipitated solids disposal schedule**

**Lined pit reclamation description:**

**Lined pit reclamation**

**Leak detection system description:**

**Leak detection system**

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Lined pit Monitor description:**

**Lined pit Monitor**

**Lined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information**

## Section 3 - Unlined

**Would you like to utilize Unlined Pit PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD disturbance (acres):** **PWD surface owner:**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit**

**Precipitated solids disposal:**

**Decribe precipitated solids disposal:**

**Precipitated solids disposal**

**Unlined pit precipitated solids disposal schedule:**

**Unlined pit precipitated solids disposal schedule**

**Unlined pit reclamation description:**

**Unlined pit reclamation**

**Unlined pit Monitor description:**

**Unlined pit Monitor**

**Do you propose to put the produced water to beneficial use?**

**Beneficial use user**

**Estimated depth of the shallowest aquifer (feet):**

**Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?**

**TDS lab results:**

**Geologic and hydrologic**

**State**

**Unlined Produced Water Pit Estimated**

**Unlined pit: do you have a reclamation bond for the pit?**

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Is the reclamation bond a rider under the BLM bond?**

**Unlined pit bond number:**

**Unlined pit bond amount:**

**Additional bond information**

## Section 4 -

**Would you like to utilize Injection PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Injection PWD discharge volume (bbl/day):**

**Injection well mineral owner:**

**Injection well type:**

**Injection well number:** **Injection well name:**

**Assigned injection well API number?** **Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection**

**Underground Injection Control (UIC) Permit?**

**UIC Permit**

## Section 5 - Surface

**Would you like to utilize Surface Discharge PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

## Section 6 -

**Would you like to utilize Other PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Operator Name:** 3R OPERATING LLC

**Well Name:** MONGO 25 FED COM **Well Number:** 802H

**Other PWD type description:**

**Other PWD type**

**Have other regulatory requirements been met?**

**Other regulatory requirements**

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# Bond Info Data
04/29/2025

**APD ID:** 10400102194
**Submission Date:** 11/26/2024
**Operator Name:** 3R OPERATING LLC
**Well Name:** MONGO 25 FED COM
**Well Number:** 802H
**Well Type:** CONVENTIONAL GAS WELL
**Well Work Type:** Drill

Highlighted data reflects the most recent changes
Show Final Text

## Bond

**Federal/Indian APD:** FED

**BLM Bond number:** NMB105811880

**BIA Bond number:**

**Do you have a reclamation bond?** NO

**Is the reclamation bond a rider under the BLM bond?**

**Is the reclamation bond BLM or Forest Service?**

**BLM reclamation bond number:**

**Forest Service reclamation bond number:**

**Forest Service reclamation bond attachment:**

**Reclamation bond amount:**

**Reclamation bond rider amount:**

**Additional reclamation bond information attachment:**

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

General Information
Phone: (505) 629-6116

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

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



## CONDITIONS

| | |
|---|---|
| Operator:<br>3R Operating, LLC<br>20405 State Highway 249<br>Houston, TX 77070 | OGRID:<br>331569 |
| | Action Number:<br>469644 |
| | Action Type:<br>[C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| atramell01 | Cement is required to circulate on both surface and intermediate1 strings of casing. | 6/2/2025 |
| atramell01 | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing. | 6/2/2025 |
| ward.rikala | Notify the OCD 24 hours prior to casing & cement. | 6/9/2025 |
| ward.rikala | File As Drilled C-102 and a directional Survey with C-104 completion packet. | 6/9/2025 |
| ward.rikala | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string. | 6/9/2025 |
| ward.rikala | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system. | 6/9/2025 |