AFMSS

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

Application for Permit to Drill

APD Package Report

Date Printed: 11/06/2025 09:46 AM

APD ID:	10400105785	Well Status:	AAPD
APD Received Date:	07/30/2025 09:34 AM	Well Name:	RIVERBEND 14 FEDERAL C
Operator:	CIMAREX ENERGY COMPANY OF	Well Number:	8H

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 2 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 9 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 2 file(s)
  -- Casing Design Assumptions and Worksheet(s): 1 file(s)
  -- Hydrogen sulfide drilling operations plan: 2 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 6 file(s)
  -- Other Facets: 6 file(s)
  -- Other Variances: 4 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 2 file(s)
  -- Attach Well map: 2 file(s)
  -- Production Facilities map: 4 file(s)
  -- Water source and transportation map: 2 file(s)
  -- Well Site Layout Diagram: 10 file(s)
  -- Recontouring attachment: 2 file(s)

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments

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-- None

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM13413

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.: RIVERBEND 14 FEDERAL COM 8H

2. Name of Operator: CIMAREX ENERGY COMPANY OF COLORADO

9. API Well No.: 30-015-57517

3a. Address: 6001 DEAUVILLE BLVD STE 300N, MIDLAND, TX 79706

3b. Phone No. *(include area code)*: (432) 620-1936

10. Field and Pool, or Exploratory: SAN LORENZO/BONE SPRING, NORTH

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

At surface: SESW / 264 FSL / 1840 FWL / LAT 32.138125 / LONG -104.060561

At proposed prod. zone: NENE / 100 FNL / 690 FEL / LAT 32.137194 / LONG -104.051648

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 11/T25S/R28E/NMP

14. Distance in miles and direction from nearest town or post office*: 6 miles

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 1207 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 320.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 20 feet

19. Proposed Depth: 8796 feet / 19634 feet

20. BLM/BIA Bond No. in file: FED: NMB001188

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 2935 feet

22. Approximate date work will start*: 12/30/2025

23. Estimated duration: 30 days

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
(Electronic Submission)	CRYSTAL DENSON / Ph: (432) 620-1936	07/30/2025

Title: Regulatory Analyst

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	CODY LAYTON / Ph: (575) 234-5959	10/31/2025

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field 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: 10/31/2025

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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.

(Continued on page 3)

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Additional Operator Remarks

Location of Well

0. SHL: SESW / 264 FSL / 1840 FWL / TWSP: 25S / RANGE: 28E / SECTION: 11 / LAT: 32.138125 / LONG: -104.060561 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 1329 FNL / 688 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.133816 / LONG: -104.051641 (TVD: 8796 feet, MD: 15263 feet)

PPP: NWNE / 100 FNL / 1920 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.137163 / LONG: -104.055621 (TVD: 8796 feet, MD: 9440 feet)

BHL: NENE / 100 FNL / 690 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.137194 / LONG: -104.051648 (TVD: 8796 feet, MD: 19634 feet)

BLM Point of Contact

Name: JANET D ESTES
Title: ADJUDICATOR
Phone: (575) 234-6233
Email: JESTES@BLM.GOV

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Riverbend 14 FEDERAL COM 8H

APD - Geology COAs (Not in Potash or WIPP)

- For at least one well per pad (deepest well within initial development preferred) the record of the drilling rate (ROP) along with the Gamma Ray (GR) and Neutron (CNL) well logs run from TVD to surface in the vertical section of the hole shall be submitted to the BLM office as well as all other logs run on the full borehole 30 days from completion. Any other logs run on the wellbore, excluding cement remediation, should also be sent. Only digital copies of the logs in .TIF or .LAS formats are necessary; paper logs are no longer required. Logs shall be emailed to blm-cfo-geology@doimspp.onmicrosoft.com. Well completion report should have .pdf copies of any CBLs or Temp Logs run on the wellbore.

- Exceptions: In areas where there is extensive log coverage (in particular the salt zone adjacent to a pad), Operators are encouraged to contact BLM Geologists to discuss if additional GR and N logs are necessary on a pad. Operator may request a waiver of the GR and N log requirement due to good well control or other reasons to be approved by BLM Geologist prior to well completion. A waiver approved by BLM must be attached to completion well report to satisfy COAs.

- The top of the Rustler, top and bottom of the Salt, and the top of the Capitan Reef (if present) are to be recorded on the Completion Report.

Be aware that:

- No H2S has been reported within one mile of the proposed project.

Questions? Contact Thomas Evans, BLM Geologist at 575-234-5965 or tvevans@blm.gov

PECOS DISTRICT

SURFACE USE

CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CIMAREX ENERGY COMPANY OF COLORADO
LEASE NO.:	NMNM13413
COUNTY:	Eddy County, New Mexico

Wells:

RIVERBEND 14 FEDERAL COM 1H

RIVERBEND 14 FEDERAL COM 3H

RIVERBEND 14 FEDERAL COM 4H

RIVERBEND 14 FEDERAL COM 7H

RIVERBEND 14 FEDERAL COM 8H

Approval Date: 10/31/2025

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1. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) 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, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall 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 operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

1. Temporary halting of all construction, drilling, and production activities to lower noise.
2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. 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 a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator 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 operator.

1.2. RANGELAND RESOURCES

1.2.1. **Cattleguards**

Where a permanent cattleguard 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.

1.2.2. **Fence Requirement**

Where entry granted across a fence line, the fence must be 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 notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.2.3. **Livestock Watering Requirement**

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

1.3. NOXIOUS WEEDS

The operator shall treat the noxious weeds that are currently established and any noxious weeds that 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, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (Peganum harmala)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

1.4. LIGHT POLLUTION

1.4.1. **Downfacing**

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.4.2. **Shielding**

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.4.3. **Lighting Color**

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

2. SPECIAL REQUIREMENTS

WATERSHED

Any water erosion that may occur due to the construction of ROW/surface site and during the life of the ROW/surface site will be quickly corrected and proper measures will be taken to prevent future erosion. Erosion control structures such as curled (plastic free and weed free) wood/straw fiber wattles/logs, silt fences, diversion berms, or other soil erosion controls to slow water migration across disturbed areas should be installed during construction and reclamation or as needed.

Any spills or leaks will be reported to the BLM immediately for their immediate and proper treatment. The entire surface site/pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. No waterflow from the uphill side(s) of the pad shall be allowed to enter the well pad.

Topsoil shall not be used to construct the berm. The compacted berm should be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche).

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 immediately 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 with wattles surrounding the stockpiled soil to prevent soil loss due to water/wind erosion. The wattles are to be maintained throughout the life of the project.

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.

2.1.1. **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. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hourproduction, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity). 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.

2.1.2. **Buried/Surface Line(s)**

When crossing ephemeral drainages (marked and unmarked), the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. In ephemeral flow paths, rivers, and streams excess soil is to be compacted, contoured, and level to ground surface, allowing water to flow in its natural state.
Prior to pipeline installation/construction, a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan should incorporate an automatic shut-off system or manual shut-off valves with active monitoring to minimize the effects of an undesirable event. Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.

2.1.3. **Electric Line(s)**

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole must not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that does not promote further erosion.

2.2. CAVE/KARST

2.2.1. **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.
- This is a sensitive area and all spills or leaks will be reported to the BLM immediately for their immediate and proper treatment, as defined in NTL 3A for Major Undesirable Events.

2.2.2. **Pad Construction**

- The pad will be constructed and leveled by adding the necessary fill and caliche. No blasting will be used for any construction or leveling activities.
- 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 be vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

2.2.3. **Buried Pipeline/Cable Construction**

- Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

2.2.4. **Powerline Construction**

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

2.2.5. **Surface Flowlines Installation**

- Flowlines will be routed around sinkholes and other karst features to minimize the possibility of leaks/spills from entering the karst drainage system.

2.2.6. **Production Mitigation**

- 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. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hour production, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity).
- 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.

2.2.7. **Residual and Cumulative Mitigation**

The operator will perform annual pressure monitoring on all casing annuli. If the test results indicate a casing failure has occurred, contact a BLM Engineer immediately, and take remedial action to correct the problem.

2.2.8. **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.

2.3 WILDLIFE

2.3.1. **Texas Hornshell Mussel**

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.

2.4 SPECIAL STATUS PLANT SPECIES

2.5 VISUAL RESOURCE MANAGEMENT

2.5.1 **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).

3. CONSTRUCTION REQUIREMENTS

3.1 CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov 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 COAs on the well site and they shall be made available upon request by the Authorized Officer.

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. 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 (the B horizon and below) 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.

3.3 CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

3.4 FEDERAL MINERAL 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.

3.5 WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

3.6 EXCLOSURE FENCING (CELLARS & PITS)

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 well cellar 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.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

3.7 ON LEASE ACCESS ROAD

3.7.1 **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.

3.7.2 **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 will 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.

3.7.3 **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.

3.7.4 **Ditching**

Ditching shall be required on both sides of the road.

3.7.5 **Turnouts**

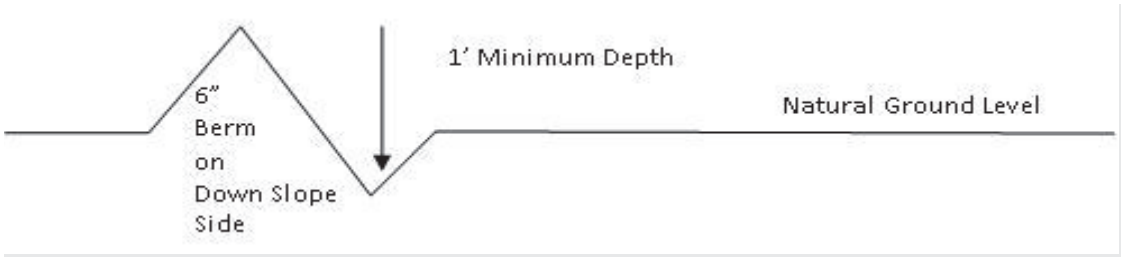
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 **Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, leadoff 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:

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

3.7.7 **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

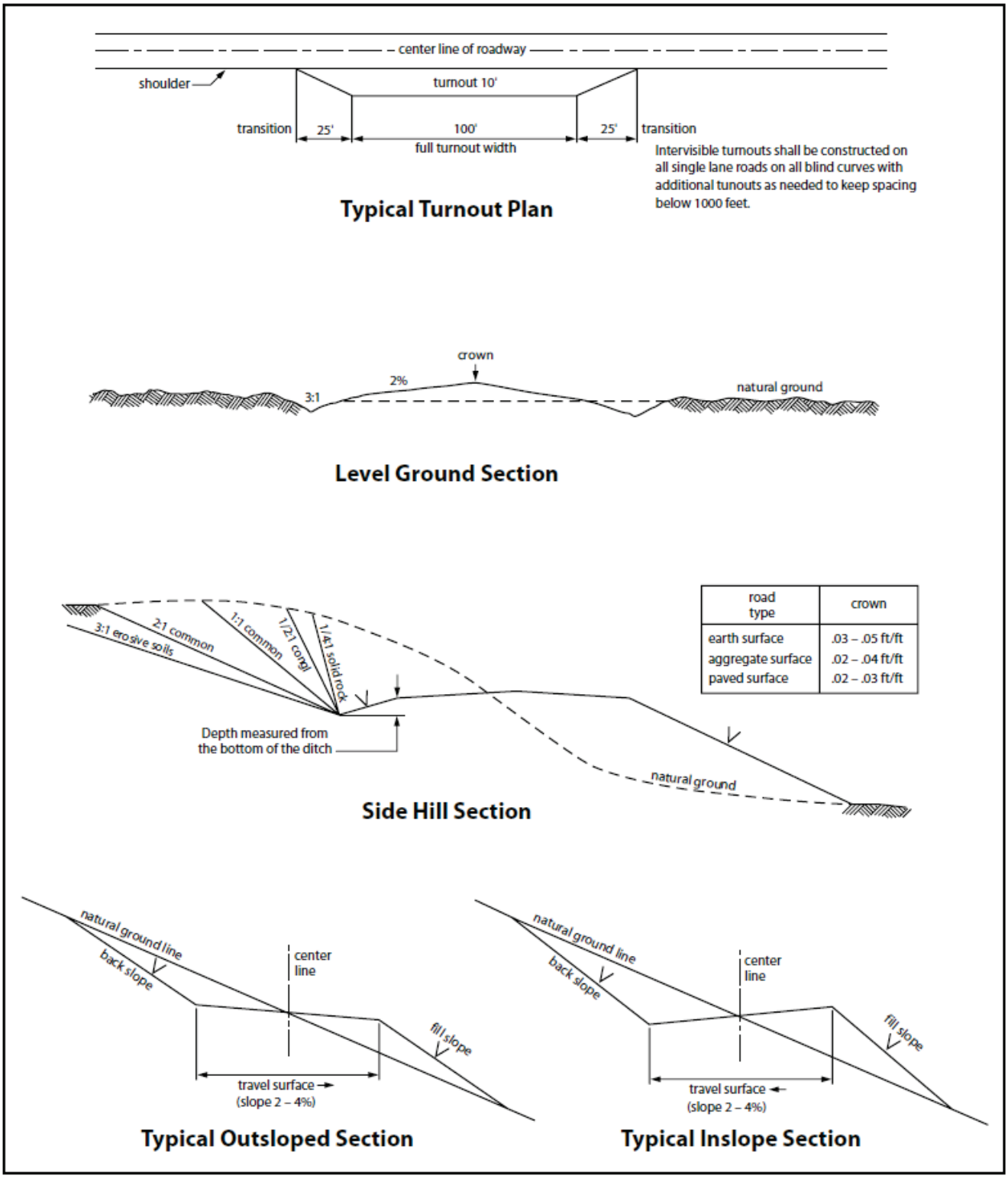


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

4. PIPELINES

- 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.
- 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.

4.1 BURIED PIPELINES

A copy of the application (APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and

fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized pipeline corridor.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:

   - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)

   - Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

   - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted, and a 6-inch berm will be left over the ditch line to allow for settling back to grade.

10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

11. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator before maintenance begins. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the operator to construct temporary deterrence structures.

12. 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 associated roads, 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.

13. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.

14. Special Stipulations:
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.

4.2 OVERHEAD ELECTRIC LINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the powerline corridor or on facilities authorized under this powerline corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor(unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.
6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
8. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
11. Special Stipulations:
    - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.
12. Karst stipulations for overhead electric lines
    - Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.
    - The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
    - No further construction will be done until clearance has been issued by the Authorized Officer.
    - Special restoration stipulations or realignment may be required.

4.3 RANGLAND MITIGATION FOR PIPELINES

4.5.1 **Fence Requirement**

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its

prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s).

4.5.2 **Cattleguards**

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-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.

4.5.3 **Livestock Watering Requirement**

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment operator if any damage occurs to structures that provide water to livestock.

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the trench is excavated and replaced with minimal compaction) during the construction phase. Soft plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along the open trench to allow passage across the trench and provide a means of escape for livestock and wildlife that may enter the trench.
- Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 feet intervals and sloped no more than 45 degrees.

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 **Placement of Production Facilities**

Production facilities must be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

5.1.2 **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.

5.1.3. 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.

5.1.4. 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.

5.1.5. 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.

6. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12”, unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must 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 must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. 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 in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

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 will 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. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permitee 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 land application will be accomplished by mechanical planting 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 tend to drop the bottom of the drill and are planted first; the operator 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 BLM or Soil Conservation

District 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 or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 3, for Shallow Sites

FOR CTB RECLAMATION ONLY

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

Species	lb/acre
Plains Bristlegrass (*Setaria macrostachya*)	1.0
Green Sprangletop (*Leptochloa dubia*)	2.0
Sideoats Grama (*Bouteloua curtipendula)*	5.0

*Pounds of pure live seed:

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

Mixture 4, for Gypsum Sites

FOR WELLPAD RECLAMATION ONLY

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

Species	lb/acre
Alkali Sacaton (*Sporobolus airoides*)	1.5
DWS~ Four-wing saltbush (*Atriplex canescens*)	8.0

~DWS: DeWinged Seed

*Pounds of pure live seed:

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

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Cimarex Energy Company of Colorado**
LOCATION:	Section 11, T.25 S., R.28 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	**Riverbend 14 Federal Com 8H**
ATS/API ID:	**ATS-25-2124**
APD ID:	**10400105785**
Sundry ID:	**N/a**

COA

H2S	No		
Potash	None	None	
Cave/Karst Potential	Medium		
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☐ Flex Hose	☐ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String ☐ 5 String	Capitan Reef: None	☐ WIPP
Other	Pilot Hole: None	☐ Open Annulus	
Cementing	Contingency Squeeze: None	Echo-Meter: None	Primary Cement Squeeze: None
Special Requirements	☐ Water Disposal/Injection	☑ COM	☐ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention: Waste MP	
Special Requirements Variance	☐ BOPE Break Testing ☐ Offline BOPE Testing	☐ Offline Cementing	☐ Casing Clearance

Approval Date: 10/31/2025

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 part 3170 Subpart 3176**, 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 **500 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.

    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.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing 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 or potash.**

    ❖ In Medium Cave/Karst Areas 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 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 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.

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. 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 3172.6(b)(9) 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 part 3170 Subpart 3171**
- 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)

☑ Eddy County
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
      - Notify the BLM when moving in and removing the Spudder Rig.
      - 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.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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.

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-P 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 part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

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:

    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. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    e. 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.

    a. 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).

    b. 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.)

c. 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 part 3170 Subpart 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).

d. 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.

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

f. 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.

g. 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.

h. 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 part 3170 Subpart 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.

Long Vo (LVO) 10/30/2025

Approval Date: 10/31/2025

AFMSS

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

Operator Certification Data Report

11/06/2025

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: CRYSTAL DENSON **Signed on:** 10/22/2025

Title: Regulatory Analyst

Street Address: 6001 DEAUVILLE BLVD SUITE 300N

City: MIDLAND **State:** TX **Zip:** 76706

Phone: (432)620-1644

Email address: CRYSTAL.DENSON@COTERRA.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
11/06/2025

APD ID: 10400105785 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400105785 **Tie to previous NOS?** N **Submission Date:** 07/30/2025

BLM Office: Carlsbad **User:** CRYSTAL DENSON **Title:** Regulatory Analyst

Federal/Indian APD: FED **Is the first lease penetrated for production Federal or Indian?** FED

Lease number: NMNM13413 **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? NO **APD Operator:** CIMAREX ENERGY COMPANY OF COLORADO

Operator letter of

Operator Info

Operator Organization Name: CIMAREX ENERGY COMPANY OF COLORADO

Operator Address: 6001 DEAUVILLE BLVD STE 300N **Zip:** 79706

Operator PO Box:

Operator City: MIDLAND **State:** TX

Operator Phone: (432)620-1936

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: RIVERBEND 14 FEDERAL COM **Well Number:** 8H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** SAN LORENZO **Pool Name:** BONE SPRING, NORTH

Released to Imaging: 12/5/2025 2:00:54 PM

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

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:** Riverbend 14 Federal Com **Number:** E2W2

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

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 6 Miles **Distance to nearest well:** 20 FT **Distance to lease line:** 1207 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: RIVERBEND_14_FEDERAL_E2W2_05_06_25_C_102_WELL_8H_20250902081421.pdf

RIVERBEND_14_FEDERAL_E2W2_05_06_25_C_102_WELL_8H_20250925072358.pdf

Well work start Date: 12/30/2025 **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	264	FSL	1840	FWL	25S	28E	11	Aliquot SESW	32.138125	-104.060561	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 13413	2935			N
KOP Leg #1	100	FNL	1920	FEL	25S	28E	14	Aliquot NWNE	32.137163	-104.055621	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 13413	-5861	9440	8796	Y

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

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 #1-1	100	FNL	1920	FEL	25S	28E	14	Aliquot NWNE	32.137163	-104.055621	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 13413	-5861	9440	8796	Y
PPP Leg #1-2	1329	FNL	688	FEL	25S	28E	14	Aliquot SENE	32.133816	-104.051641	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-5861	15263	8796	Y
EXIT Leg #1	100	FNL	690	FEL	25S	28E	14	Aliquot NENE	32.137194	-104.051648	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-5861	19634	8796	Y
BHL Leg #1	100	FNL	690	FEL	25S	28E	14	Aliquot NENE	32.137194	-104.051648	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-5861	19634	8796	Y

CONFIDENTIAL

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type: ☑ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-57517	53610	San Lorenzo; Bone Spring, North

Property Code	Property Name	Well Number
40059	RIVERBEND 14 FEDERAL COM	8H

OGRID No.	Operator Name	Ground Level Elevation
162683	CIMAREX ENERGY CO.OF COLORADO	2,935.3'

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 (NAD 83)	Longitude (NAD 83)	County
N	11	25S	28E		264 SOUTH	1,840 WEST	32.138125°	-104.060561°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	690 EAST	32.137194°	-104.051648°	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 (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,920 EAST	32.137163°	-104.055621°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,920 EAST	32.137163°	-104.055621°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	690 EAST	32.137194°	-104.051648°	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 of my 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 or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore 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.

Crystal Denson 6/11/2025

Signature Date

Crystal Denson

Printed Name

crystal.denson@coterra.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from the 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.

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

Signature and Seal of Professional Surveyor

23782 August 7, 2024

Certificate Number Date of Survey

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name	Well Number	Drawn By	Revised By
RIVERBEND 14 FEDERAL COM	8H	L.T.T. 11-12-24	REV: 2 T.I.R. 04-30-25 (UPDATE WELLBORE & WELL NAME)

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'17.25" (32.138125°)
LONGITUDE = -104°03'38.02" (-104.060561°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'16.81" (32.138002°)
LONGITUDE = -104°03'36.26" (-104.060072°)
STATE PLANE NAD 83 (N.M. EAST)
N: 414092.51' E: 625766.85'
STATE PLANE NAD 27 (N.M. EAST)
N: 414034.43' E: 584582.65'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°08'13.79" (32.137163°)
LONGITUDE = -104°03'20.23" (-104.055621°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°08'13.34" (32.137040°)
LONGITUDE = -104°03'18.47" (-104.055132°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413746.33' E: 627296.84'
STATE PLANE NAD 27 (N.M. EAST)
N: 413688.23' E: 586112.60'

NAD 83 (KOP 2)
LATITUDE = 32°07'29.34" (32.124818°)
LONGITUDE = -104°03'20.14" (-104.055594°)
NAD 27 (KOP 2)
LATITUDE = 32°07'28.90" (32.124695°)
LONGITUDE = -104°03'18.38" (-104.055106°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409255.48' E: 627316.63'
STATE PLANE NAD 27 (N.M. EAST)
N: 409197.47' E: 586132.29'

NAD 83 (NPZ 1)
LATITUDE = 32°07'24.75" (32.123541°)
LONGITUDE = -104°03'17.64" (-104.054900°)
NAD 27 (NPZ 1)
LATITUDE = 32°07'24.31" (32.123418°)
LONGITUDE = -104°03'15.88" (-104.054412°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408791.76' E: 627532.70'
STATE PLANE NAD 27 (N.M. EAST)
N: 408733.76' E: 586348.35'

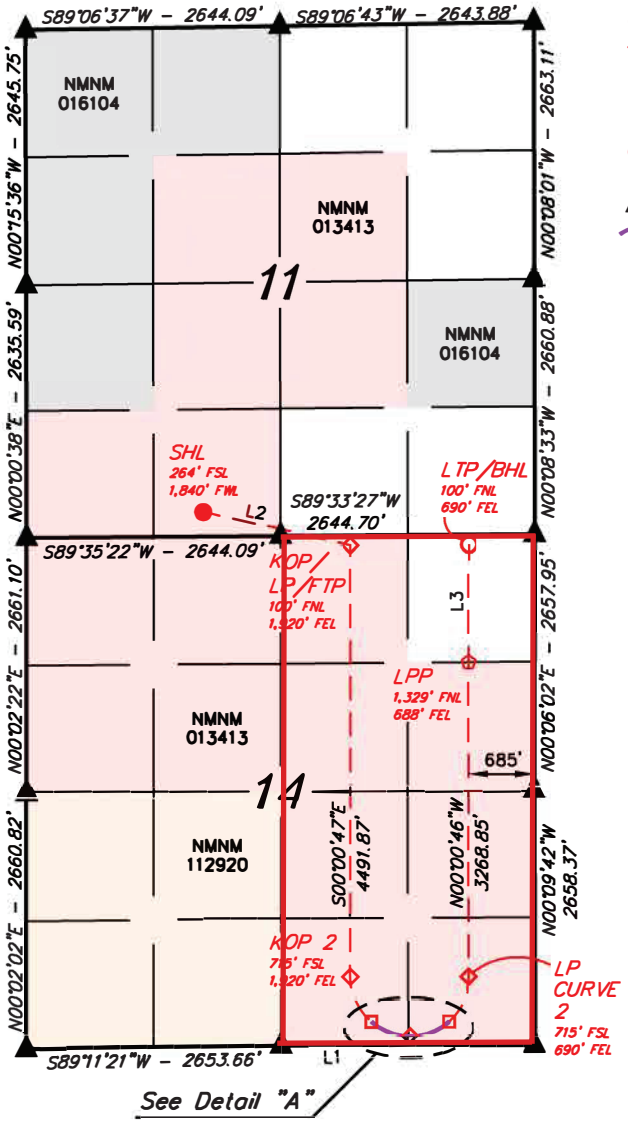
NAD 83 (PEAK CURVE 2)
LATITUDE = 32°07'23.29" (32.123135°)
LONGITUDE = -104°03'12.96" (-104.053599°)
NAD 27 (PEAK CURVE 2)
LATITUDE = 32°07'22.84" (32.123012°)
LONGITUDE = -104°03'11.20" (-104.053111°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408644.93' E: 627935.78'
STATE PLANE NAD 27 (N.M. EAST)
N: 408586.92' E: 586751.41'

NAD 83 (NPZ 2)
LATITUDE = 32°07'24.78" (32.123551°)
LONGITUDE = -104°03'08.29" (-104.052303°)
NAD 27 (NPZ 2)
LATITUDE = 32°07'24.34" (32.123428°)
LONGITUDE = -104°03'06.53" (-104.051815°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408797.38' E: 628336.76'
STATE PLANE NAD 27 (N.M. EAST)
N: 408739.37' E: 587152.39'

NAD 83 (LP CURVE 2)
LATITUDE = 32°07'29.40" (32.124833°)
LONGITUDE = -104°03'05.84" (-104.051622°)
NAD 27 (LP CURVE 2)
LATITUDE = 32°07'28.95" (32.124709°)
LONGITUDE = -104°03'04.08" (-104.051134°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409264.08' E: 628546.33'
STATE PLANE NAD 27 (N.M. EAST)
N: 409206.05' E: 587361.96'

NAD 83 (LPP)
LATITUDE = 32°08'01.74" (32.133816°)
LONGITUDE = -104°03'05.91" (-104.051641°)
NAD 27 (LPP)
LATITUDE = 32°08'01.30" (32.133693°)
LONGITUDE = -104°03'04.15" (-104.051152°)
STATE PLANE NAD 83 (N.M. EAST)
N: 412532.18' E: 628531.95'
STATE PLANE NAD 27 (N.M. EAST)
N: 412474.09' E: 587347.65'

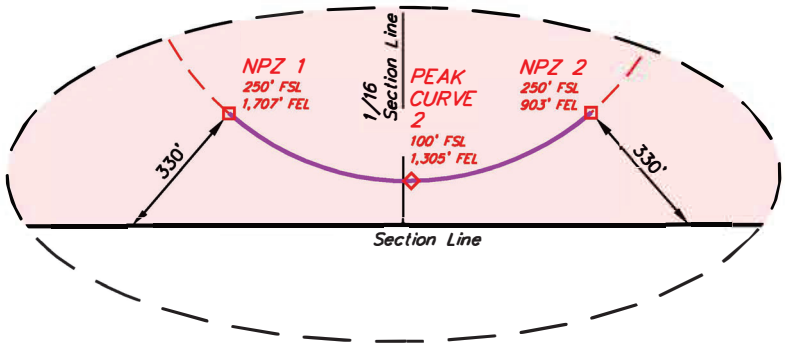
NAD 83 (LTP/BHL)
LATITUDE = 32°08'13.90" (32.137194°)
LONGITUDE = -104°03'05.93" (-104.051648°)
NAD 27 (LTP/BHL)
LATITUDE = 32°08'13.46" (32.137071°)
LONGITUDE = -104°03'04.17" (-104.051159°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413760.96' E: 628526.54'
STATE PLANE NAD 27 (N.M. EAST)
N: 413702.85' E: 587342.27'



● = SURFACE HOLE LOCATION
◇ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
□ = NPZ POINT
⬠ = LEASE PENETRATION POINT
○ = LAST TAKE POINT/BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
⌒ = NON-PERFORATION ZONE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°50'19"W	2641.51'
L2	S77°00'40"E	1569.01'
L3	N00°00'46"W	1229.06'

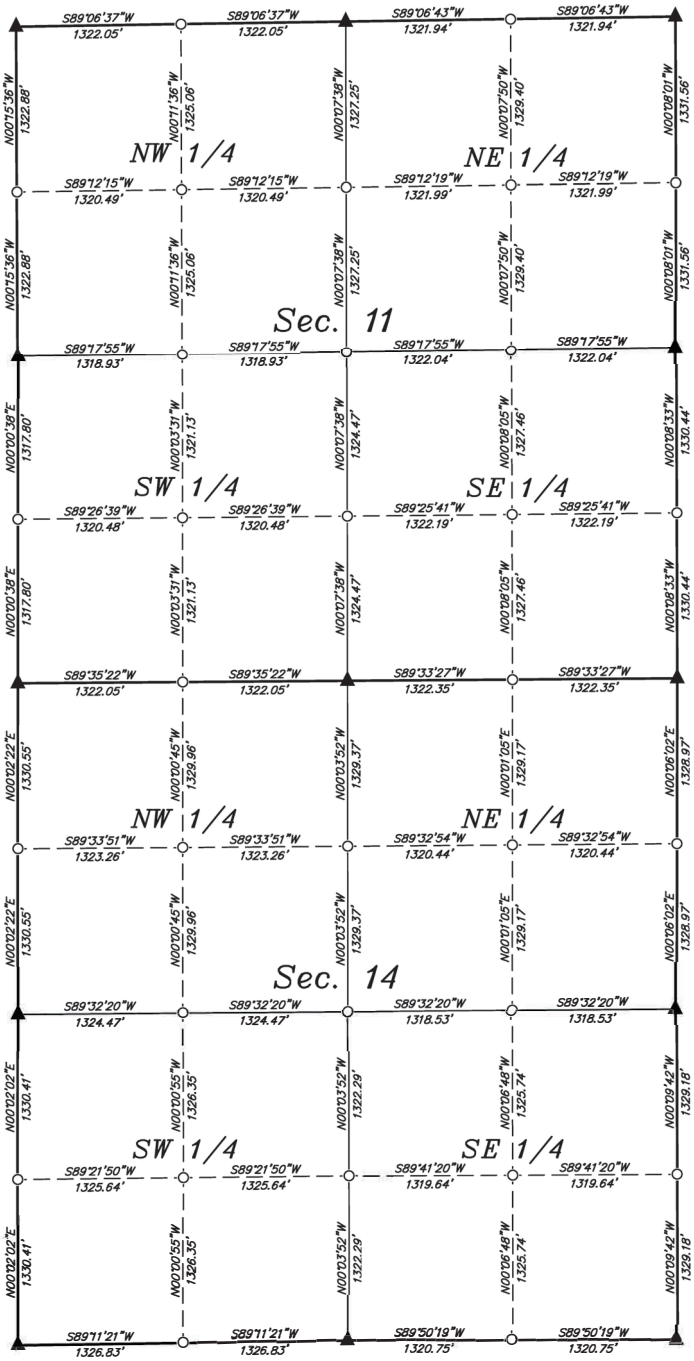
NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.



Detail "A"
No Scale



Sheet 2 of 2



1000' 500' 0' 1000'

SCALE

▲ = SECTION CORNERS LOCATED

○ = DIMENSION CORNER ONLY

BASIS OF BEARINGS

BASIS OF BEARING IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00"

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Vernal, UT 84078 * (435) 789-1017

N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
SECTION 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'

SECTION BREAKDOWN

RIVERBEND 14 FEDERAL COM 1H 264' FSL 1,880' FWL	RIVERBEND 14 FEDERAL COM 3H 264' FSL 1,860' FWL
RIVERBEND 14 FEDERAL COM 8H 264' FSL 1,840' FWL	RIVERBEND 14 FEDERAL COM 4H 264' FSL 1,800' FWL
RIVERBEND 14 FEDERAL COM 7H 264' FSL 1,820' FWL	

CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

"A" "B" "C" "D"

5 F-4.3' El. 33.9'

6 F-8.4' El. 29.8'

7 F-12.3' El. 25.9'

Alternate Egress

Approximate Topsoil Fill Area

F-2.5' El. 35.7'

F-3.7' El. 34.5'

4H 7H 8H 3H 1H

4 F-0.1' El. 38.1'

Approx. Center of Pad (NAD 83)
Lat: 32°08'16.95"
Long: -104°03'38.71"

8 F-7.1' El. 31.1'

C-0.3' El. 38.5'

SHL SHL SHL

F-0.5' El. 37.7'

9 C-0.2' El. 38.4'

3 C-5.7' El. 43.9'

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Approx. Top of Cut Slope

Satellite Pad

1 10

2 C-1.0' El. 39.2'

Section Line

Section 11

Section 14

Existing Anchor

Existing Power Pole (Typ.)

Existing Power Line

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Edge of Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

N00°24'38"W 110'

260' 140' 180' 120' 80' 230' 180' 250' 100' 86' 81' 69' 60' 80' 36' 34' 35' 35' 20' 20' 20' 20' 20' 20' 4'

2926 2928 2930 2932 2934 2936 2938 2940 2942 2944 2946 2948 2924

FINISHED GRADE ELEVATION = 2,938'

NOTE: Earthwork Calculations Require a Fill @ some Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

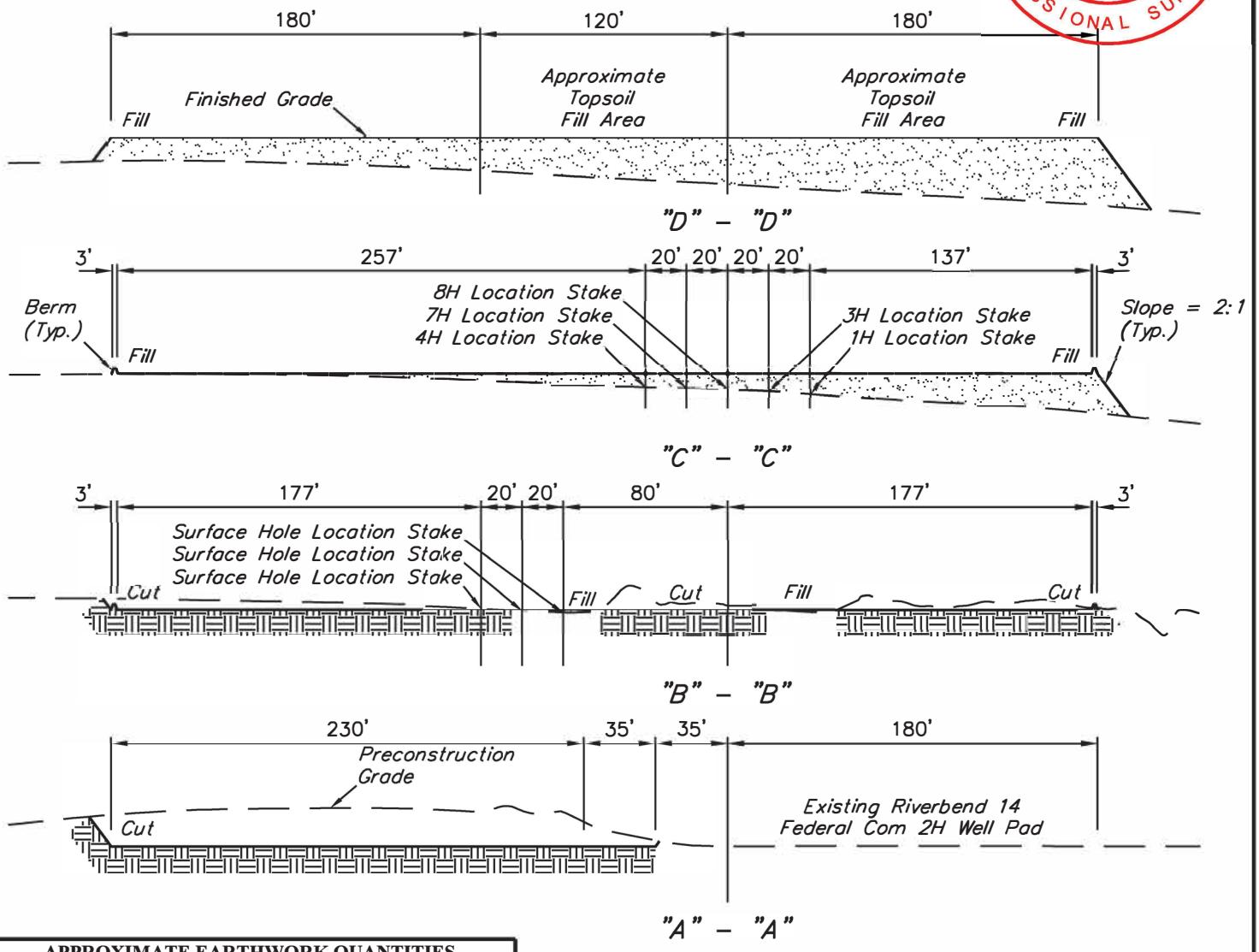
SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'
LOCATION LAYOUT			EXHIBIT J

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

1" = 30'
X-Section Scale
1" = 80'

PAUL BUCHELE
NEW MEXICO
23782
04-30-25
PROFESSIONAL SURVEYOR



APPROXIMATE EARTHWORK QUANTITIES	
(3") TOPSOIL STRIPPING (NEW CONSTRUCTION ONLY; USED IN CONSTRUCTION)	1,460 Cu. Yds.
REMAINING LOCATION	7,140 Cu. Yds.
TOTAL CUT	**8,600 Cu. Yds.**
FILL	**22,300 Cu. Yds.**
<DEFICIT> MATERIAL	<13,700> Cu. Yds.
<DEFICIT> UNBALANCE (After Interim Rehabilitation)	**<13,700> Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA DISTURBANCE	NA	±4.432
70' WIDE BULK LINE R-O-W DISTURBANCE	±869.83'	±1.398
30' WIDE POWER LINE R-O-W DISTURBANCE	±44.84'	±0.031
TOTAL SURFACE USE AREA		**±5.861**

REV: 5 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:
- Fill quantity includes 5% for compaction.
- Cut/Fill slopes 2:1 (Typ. except where noted)

CIMAREX ENERGY CO.

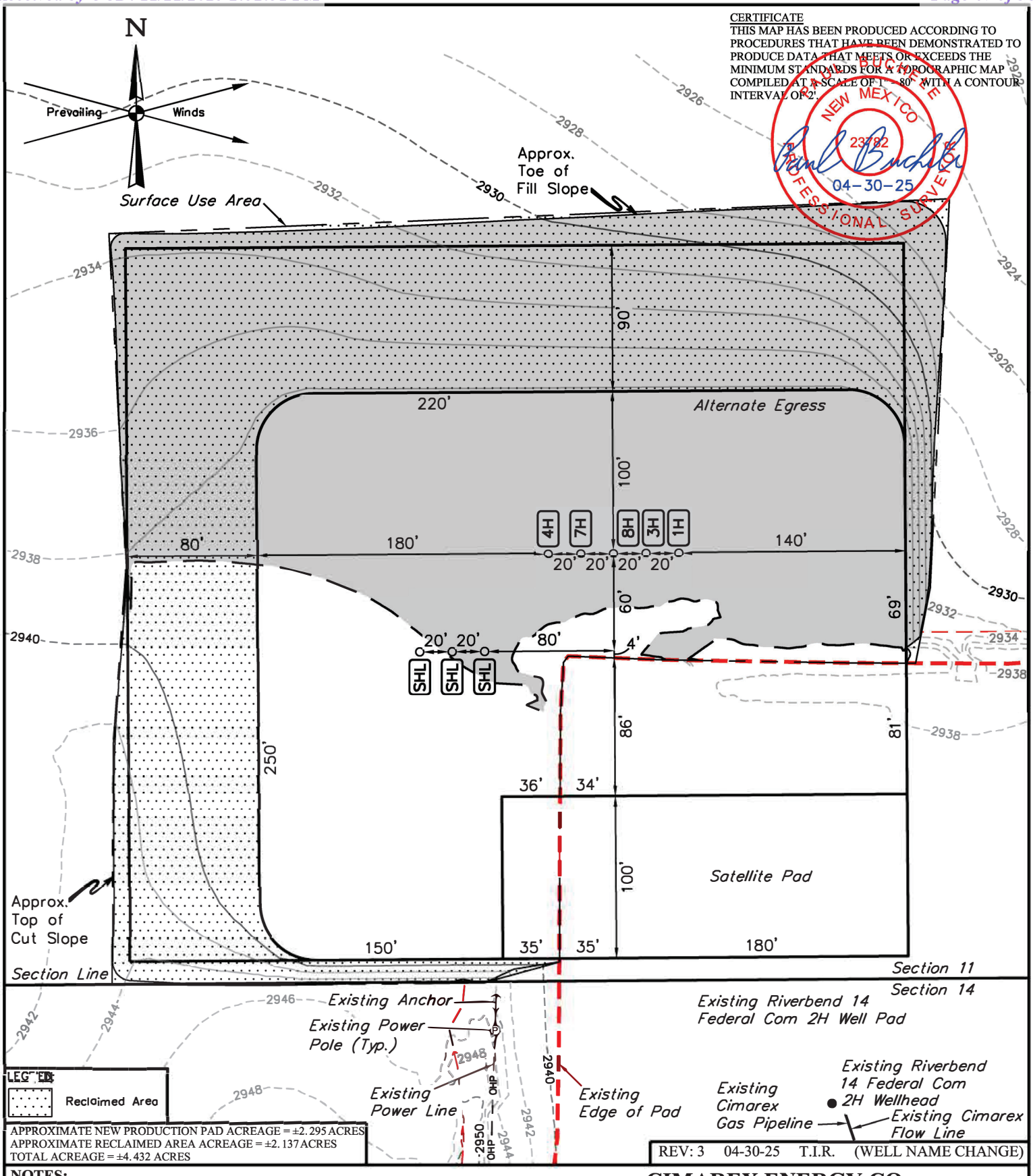
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	D.M.C.	08-20-24	AS SHOWN

TYPICAL CROSS SECTIONS **EXHIBIT J**



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 Paul Buchheit 04-30-25 PROFESSIONAL SURVEYOR

LEGEND
Reclaimed Area

APPROXIMATE NEW PRODUCTION PAD ACREAGE = ±2.295 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±2.137 ACRES
TOTAL ACREAGE = ±4.432 ACRES

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:
- Contours shown at 2' intervals.

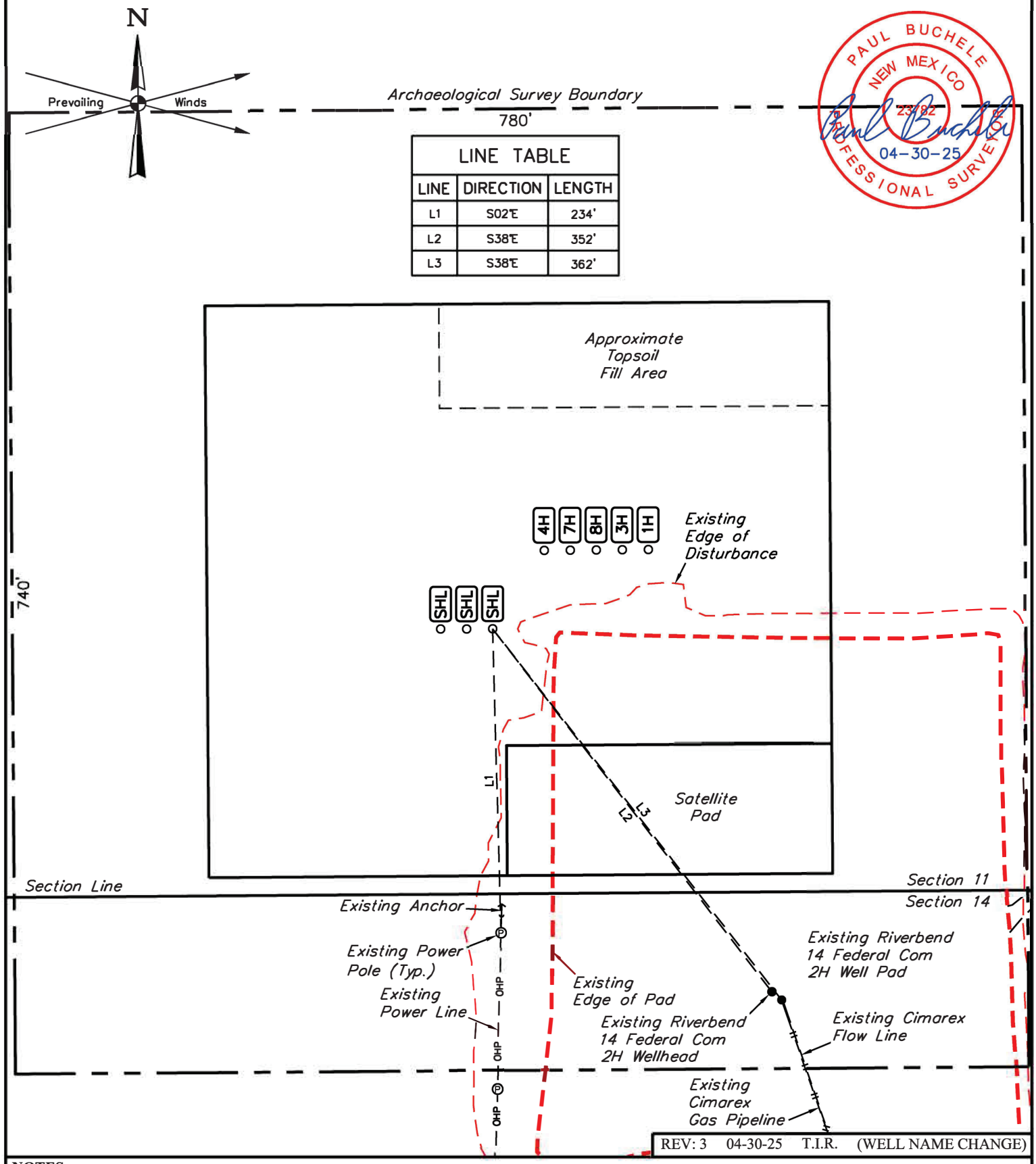
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H..	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'

RECLAMATION DIAGRAM **EXHIBIT P**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S02°E	234'
L2	S38°E	352'
L3	S38°E	362'

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H..	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT L

UINTAH ENGINEERING & LAND SURVEYING
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Vernal, UT 84078 * (435) 789-1017

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.2 MILES TO THE EXISTING RIVERBEND 14 FEDERAL COM 2H WELL PAD AND THE PROPOSED LOCATION.

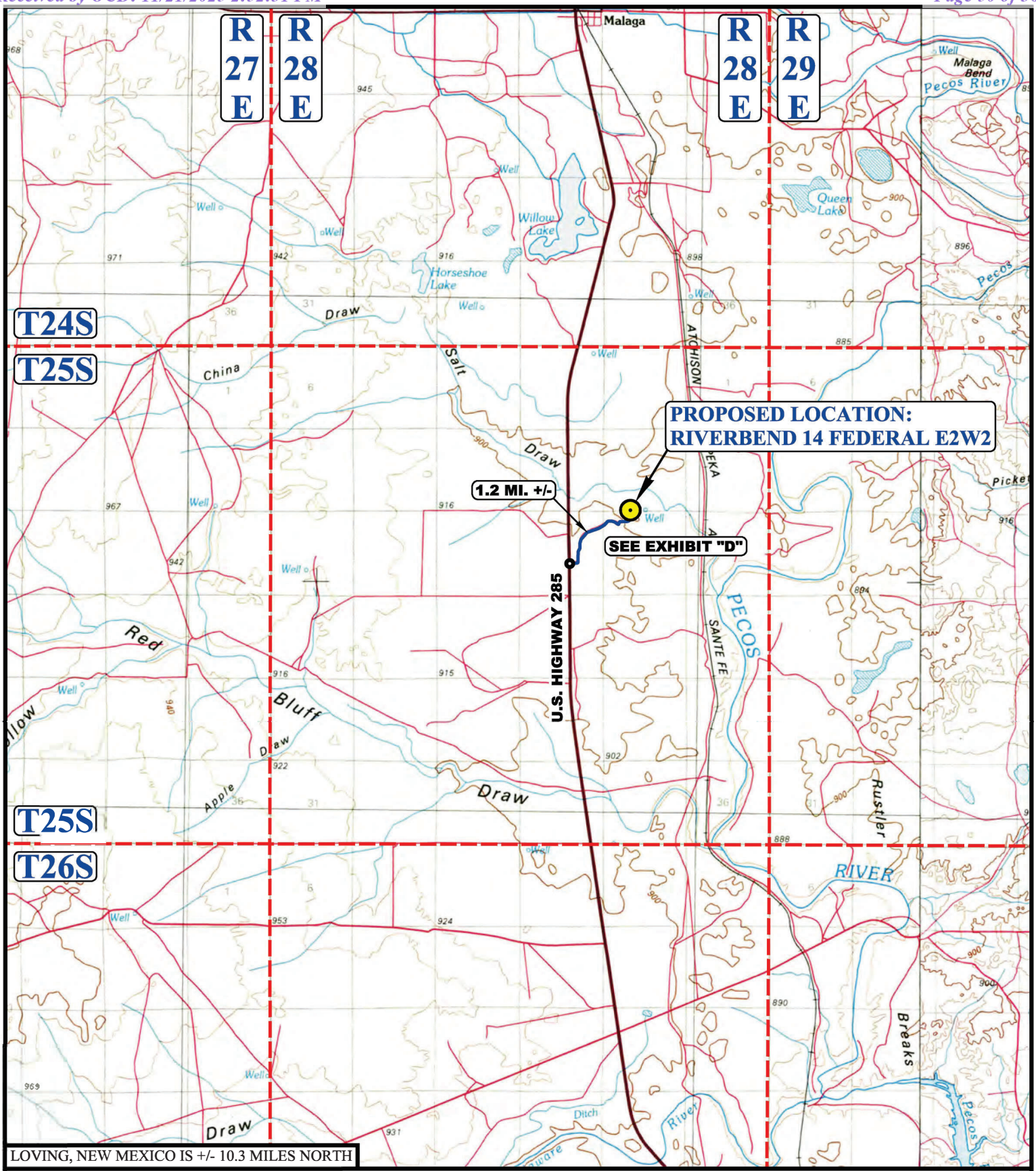
TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.2 MILES.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	
DRAWN BY	D.M.C.	08-20-24	
ROAD DESCRIPTION			EXHIBIT A

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
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Vernal, UT 84078 * (435) 789-1017



LEGEND:

⊙ **PROPOSED LOCATION**

N

CIMARE X ENERGY CO.

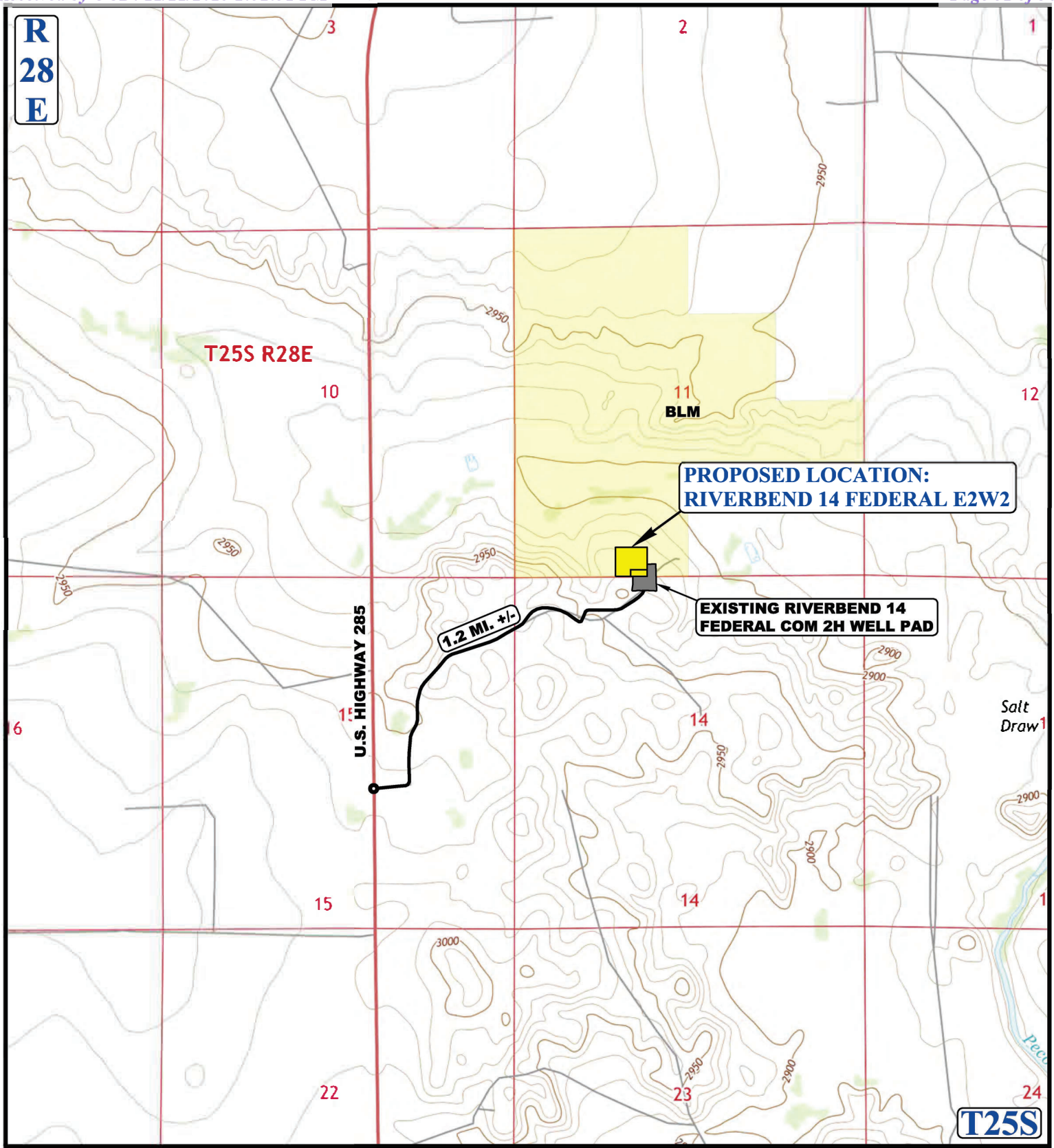
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT B**

UINTAH ENGINEERING & LAND SURVEYING

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Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

EXISTING ROAD

N

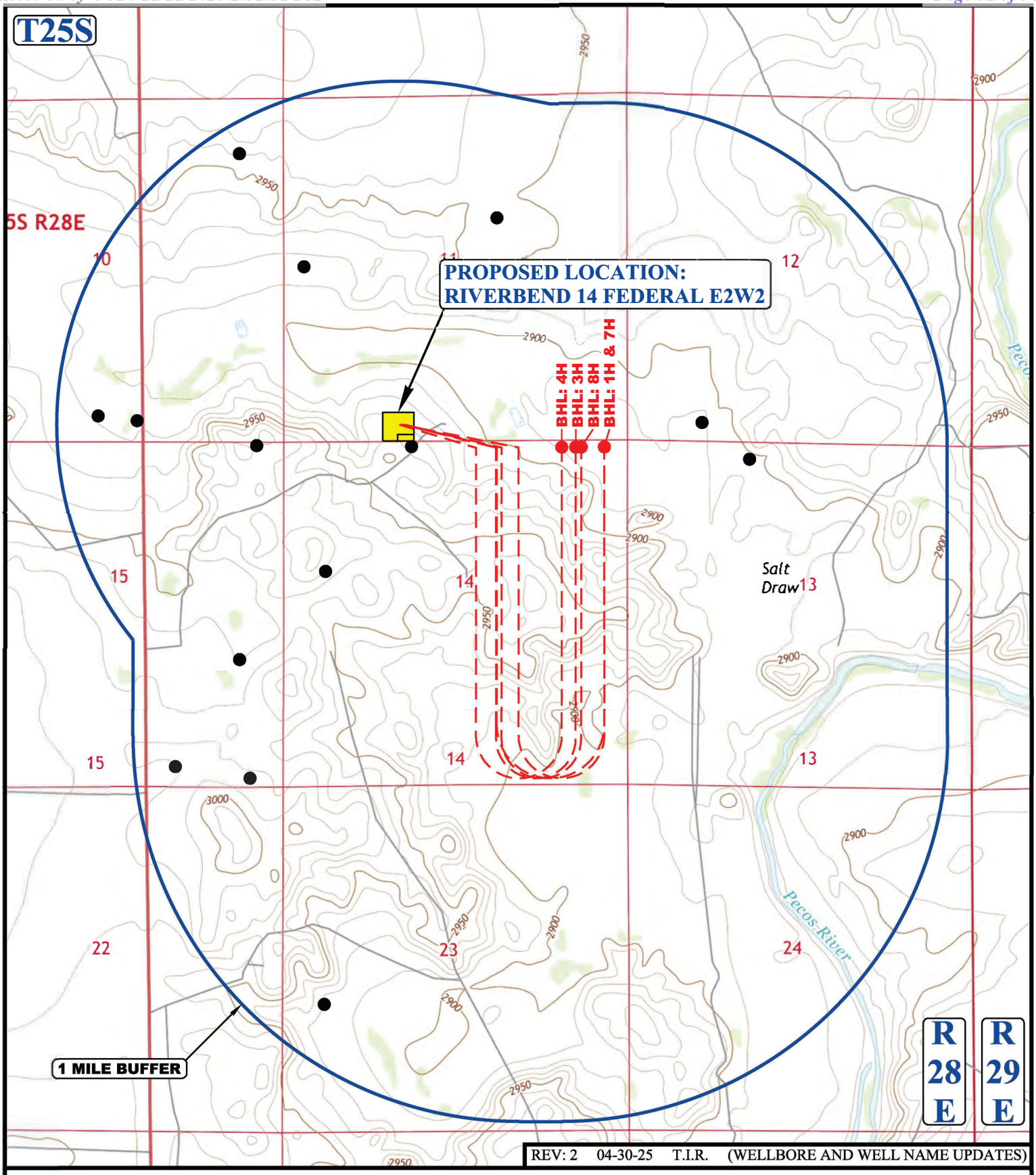
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1 : 24,000
NEW ROAD MAP			EXHIBIT D

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Vernal, UT 84078 * (435) 789-1017



REV: 2 04-30-25 T.I.R. (WELLBORE AND WELL NAME UPDATES)

LEGEND:

● EXISTING WELLS

N

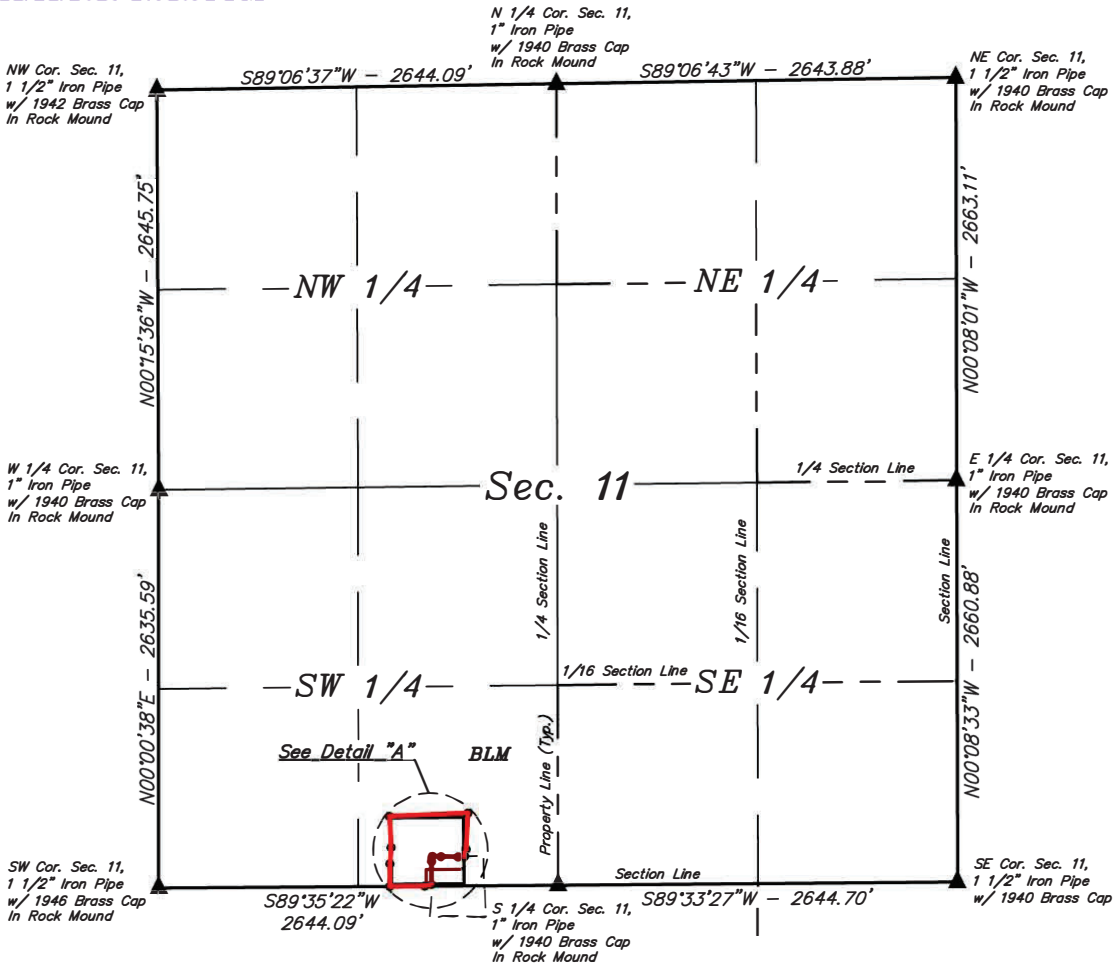
CIMARE X ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1 : 24,000
WELL PROXIMITY MAP			TOPO C

UINTAH ENGINEERING & LAND SURVEYING

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Vernal, UT 84078 * (435) 789-1017



SURFACE USE AREA DESCRIPTION

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE N72°52'30"W 647.00' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF BEGINNING; THENCE N89°43'03"W 42.85'; THENCE N89°02'25"W 113.95'; THENCE N87°46'39"W 57.29'; THENCE S37°37'35"W 4.82'; THENCE S03°23'16"W 31.44'; THENCE S00°16'13"W 153.80'; THENCE S74°38'09"W 45.97' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11; THENCE S89°35'22"W 231.61' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11; THENCE N00°18'48"E 148.92'; THENCE N04°09'04"E 108.59'; THENCE N02°58'38"W 206.43'; THENCE N87°38'09"E 518.82'; THENCE S02°48'26"W 240.26'; THENCE S11°05'22"W 47.19' TO THE POINT OF BEGINNING. CONTAINS 4.428 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS N72°52'30"W
647.00' FROM THE SOUTH 1/4 CORNER
OF SECTION 11, T25S, R28E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 11 (SW 1/4)	4.428

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

23782 PROFESSIONAL SURVEYOR 08-20-24

Sheet 1 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

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Vernal, UT 84078 * (435) 789-1017

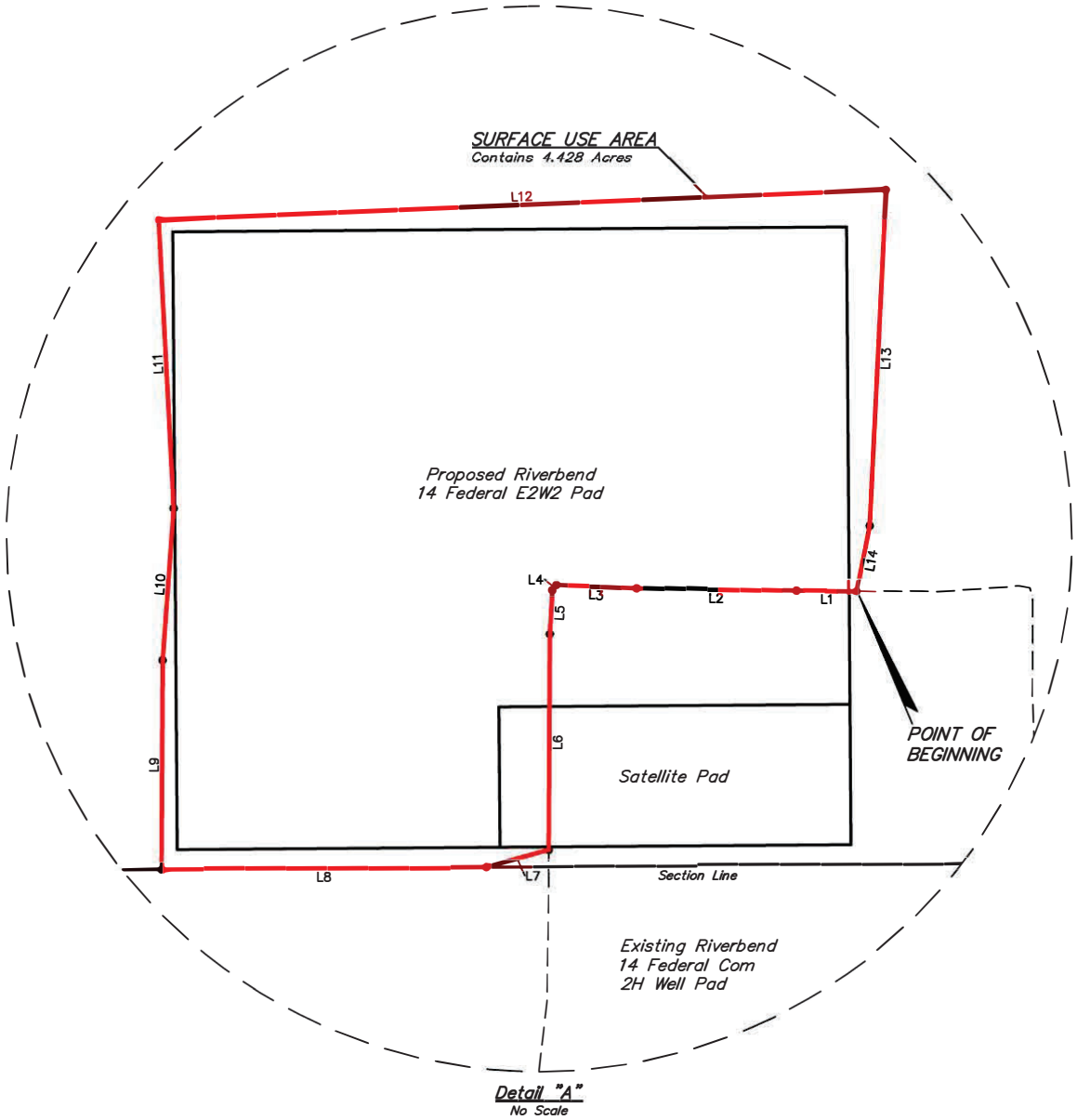
N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-A1		

SURFACE USE AREA



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°43'03"W	42.85'
L2	N89°02'25"W	113.95'
L3	N87°46'39"W	57.29'
L4	S37°37'35"W	4.82'
L5	S03°23'16"W	31.44'
L6	S00°16'13"W	153.80'
L7	S74°38'09"W	45.97'
L8	S89°35'22"W	231.61'
L9	N00°18'48"E	148.92'
L10	N04°09'04"E	108.59'
L11	N02°58'38"W	206.43'
L12	N87°38'09"E	518.82'
L13	S02°48'26"W	240.26'
L14	S11°05'22"W	47.19'

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

Sheet 2 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

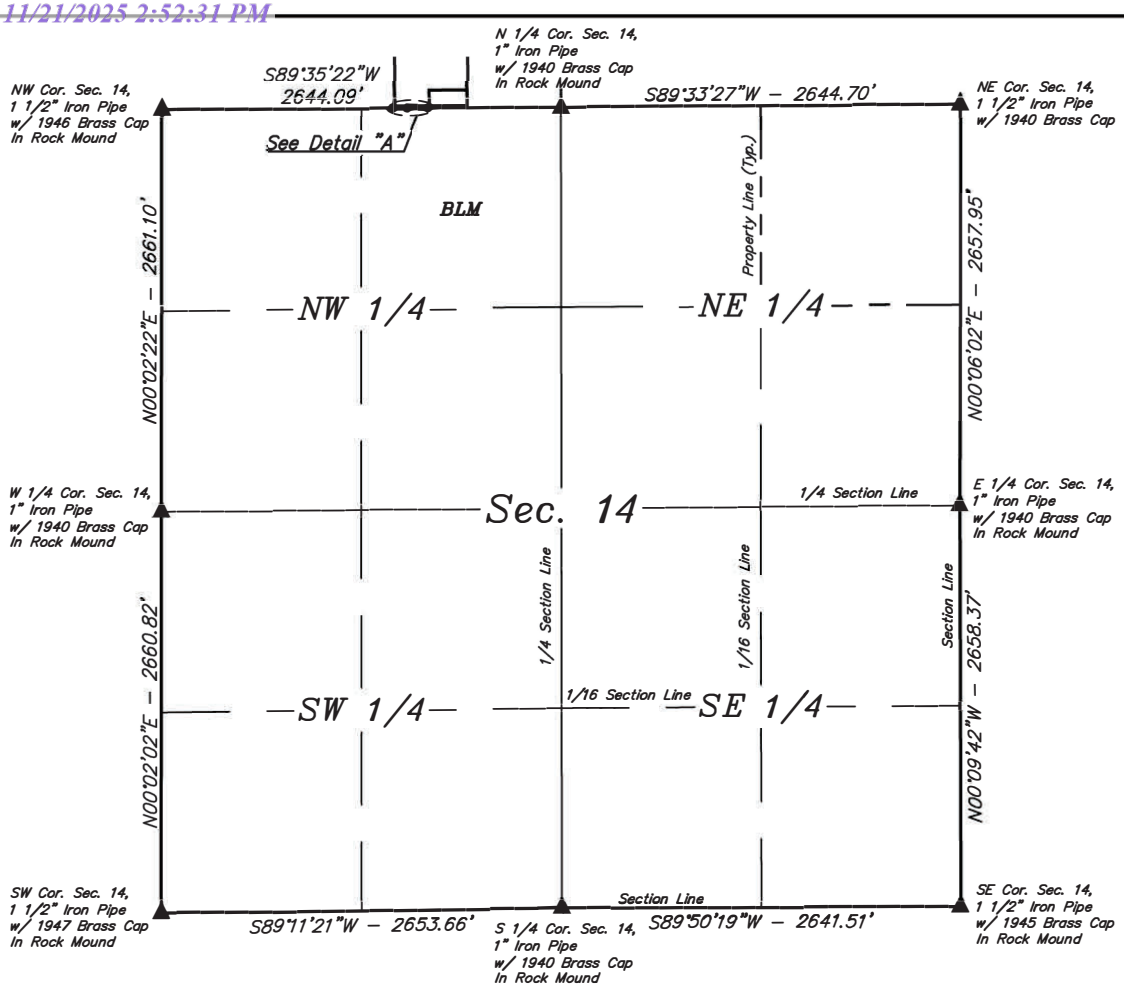
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-B1		

SURFACE USE AREA

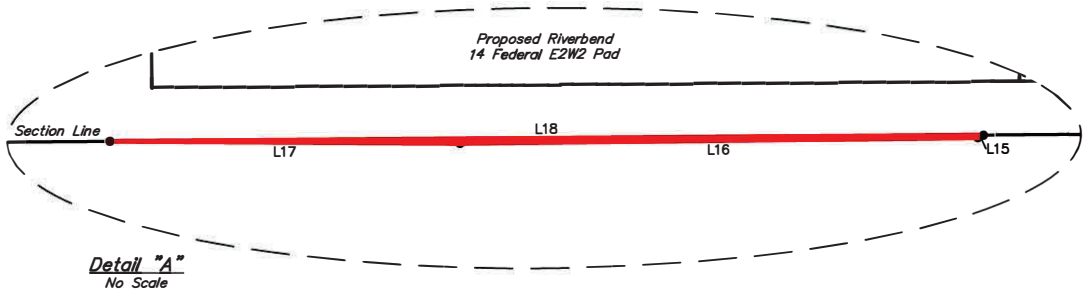
UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 882.23' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S66°42'17"W 1.80'; THENCE S89°22'43"W 137.12'; THENCE N89°40'05"W 92.84' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14; THENCE N89°35'22"E 231.61' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING. CONTAINS 0.004 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S89°35'22"W 882.23' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.004

▲ = SECTION CORNERS LOCATED.

LINE TABLE		
LINE	DIRECTION	LENGTH
L15	S66°42'17"W	1.80'
L16	S89°22'43"W	137.12'
L17	N89°40'05"W	92.84'
L18	N89°35'22"E	231.61'

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

23782 — 08-20-24 — PROFESSIONAL SURVEYOR

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

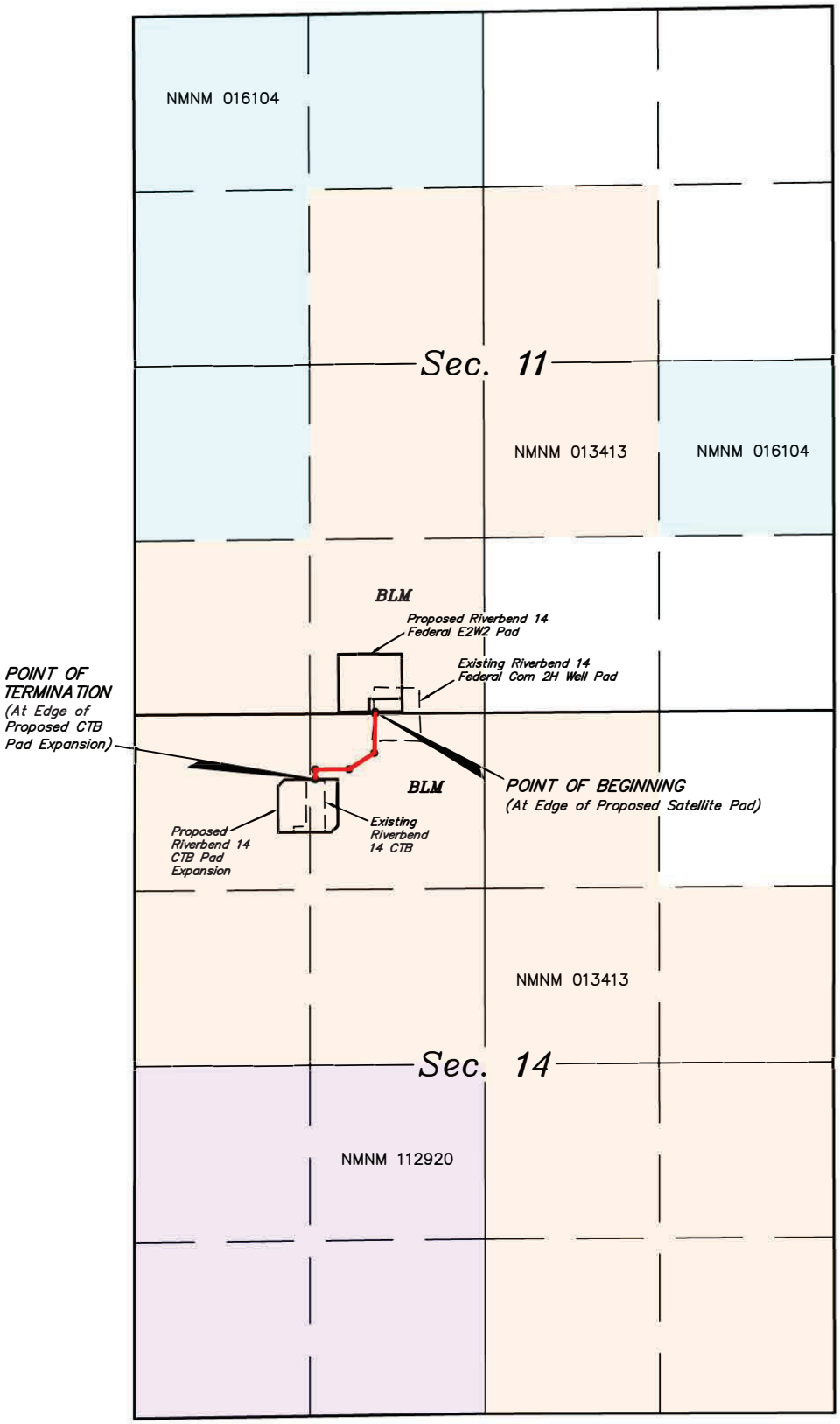
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-B		

SURFACE USE AREA

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE:
- Colored areas within section lines represent Federal oil & gas leases.

LEGEND:
- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

N

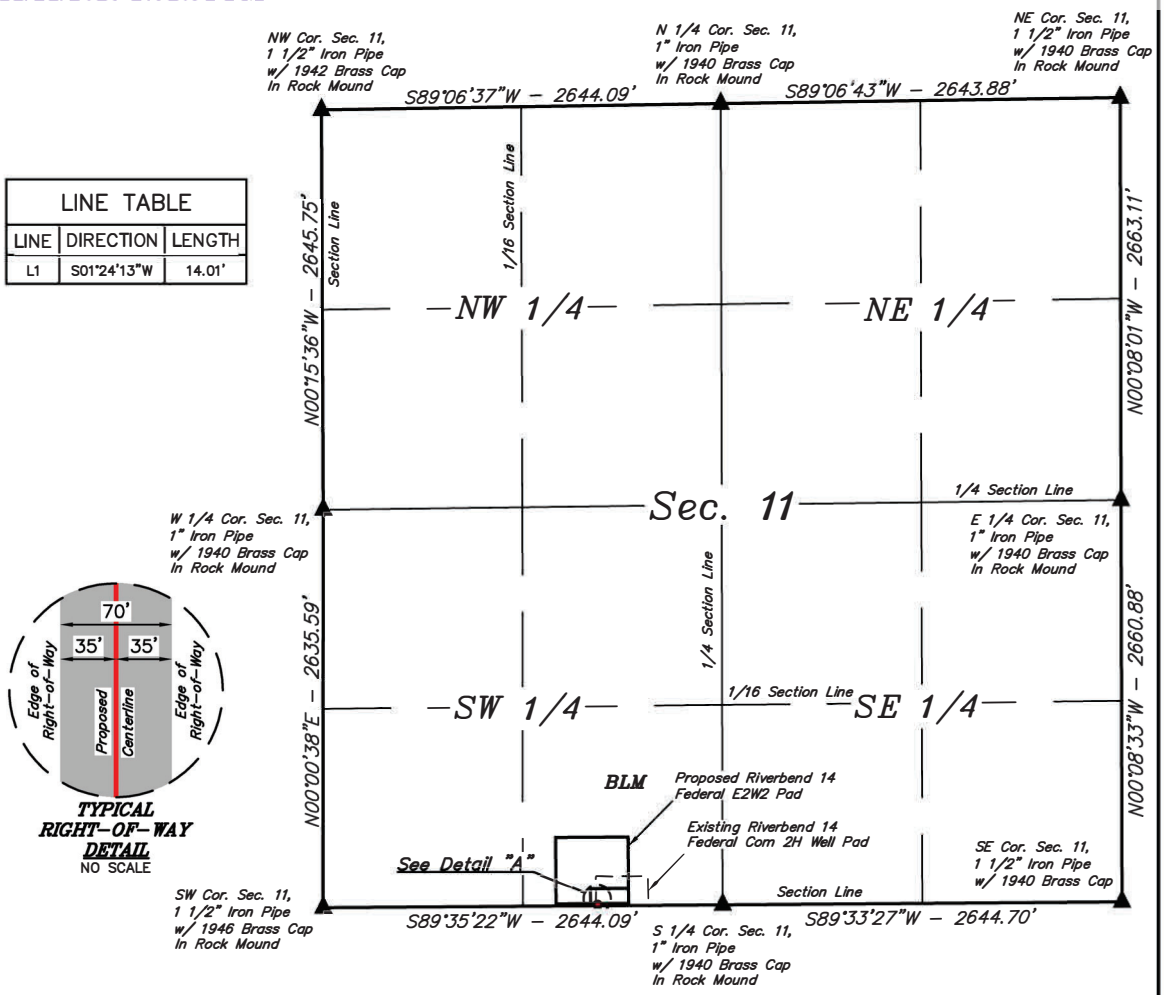
REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTIONS 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	**SCALE**
DRAWN BY	T.I.R.	09-24-24	1" = 1000'

OVERALL BULK LINE



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S01°24'13"W	14.01'

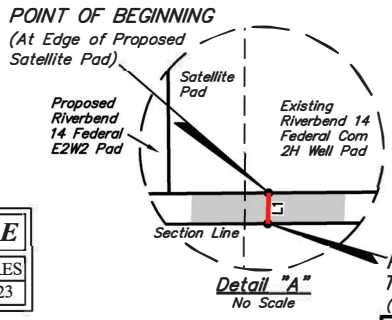
BULK LINE RIGHT-OF-WAY DESCRIPTION

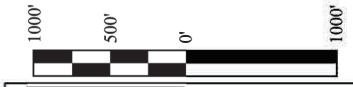
A 70' WIDE RIGHT-OF-WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE N89°26'26"W 827.06' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF BEGINNING; THENCE S01°24'13"W 14.01' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS S89°35'22"W 827.38' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.023 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS N89°26'26"W 827.06' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S89°35'22"W 827.38' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

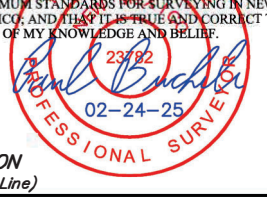




ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 11 (SW 1/4)	14.01	0.85	0.023

▲ = SECTION CORNERS LOCATED.

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REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

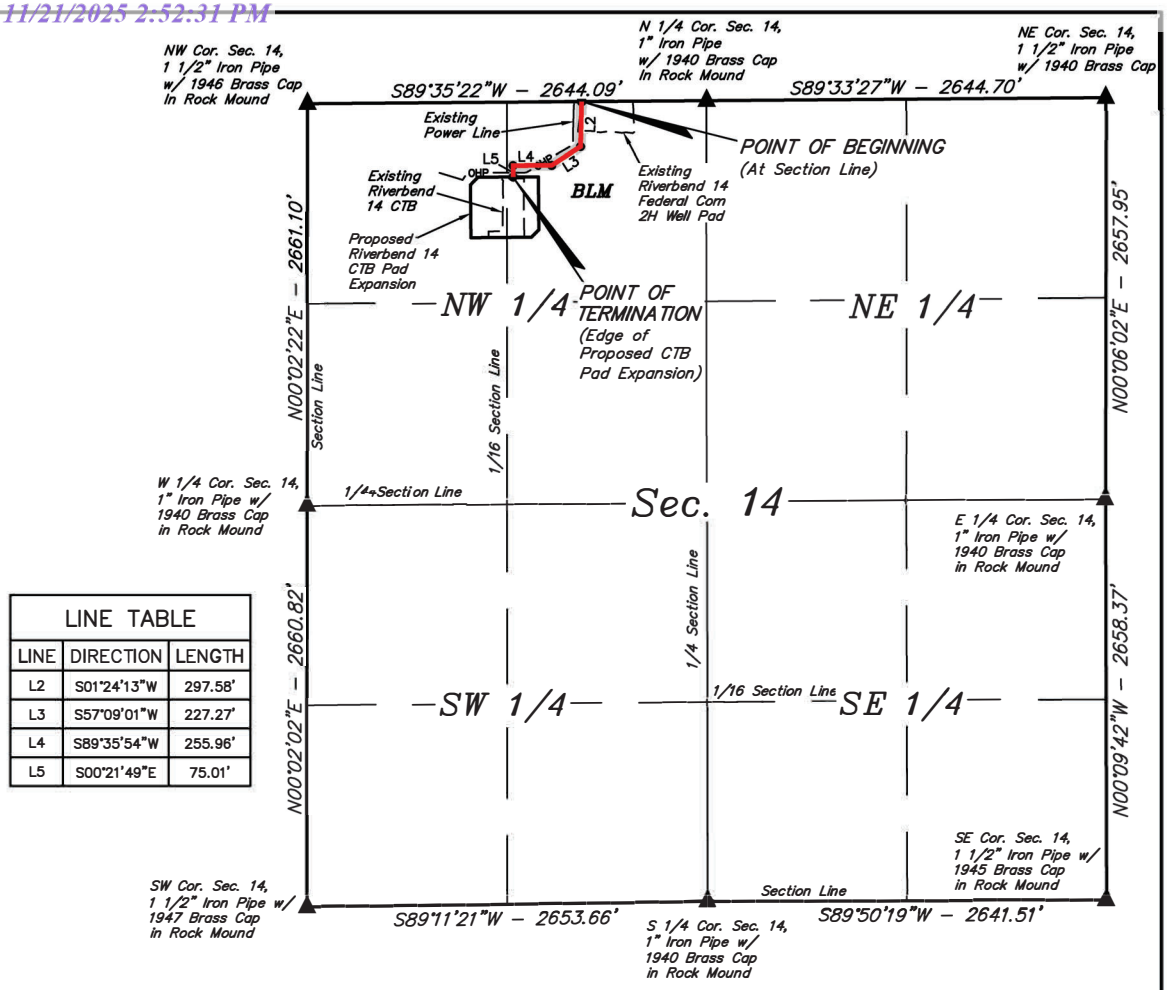
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-A1		
BULK LINE R-O-W			EXHIBIT G

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L2	S01°24'13"W	297.58'
L3	S57°09'01"W	227.27'
L4	S89°35'54"W	255.96'
L5	S00°21'49"E	75.01'

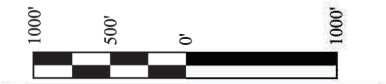
BULK LINE RIGHT–OF–WAY DESCRIPTION

A 70' WIDE RIGHT–OF–WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 827.38' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S01°24'13"W 297.58'; THENCE S57°09'01"W 227.27'; THENCE S89°35'54"W 255.96'; THENCE S00°21'49"E 75.01' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S68°32'37"W 1376.45' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 1.375 ACRES MORE OR LESS.

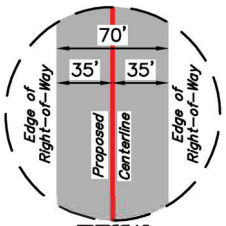
POINT OF BEGINNING BEARS S89°35'22"W 827.38' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S68°32'37"W 1376.45' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.



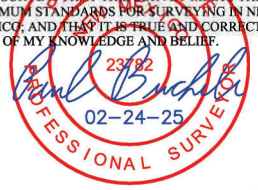
ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	855.82	51.87	1.375

▲ = SECTION CORNERS LOCATED.



TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REV: 2 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

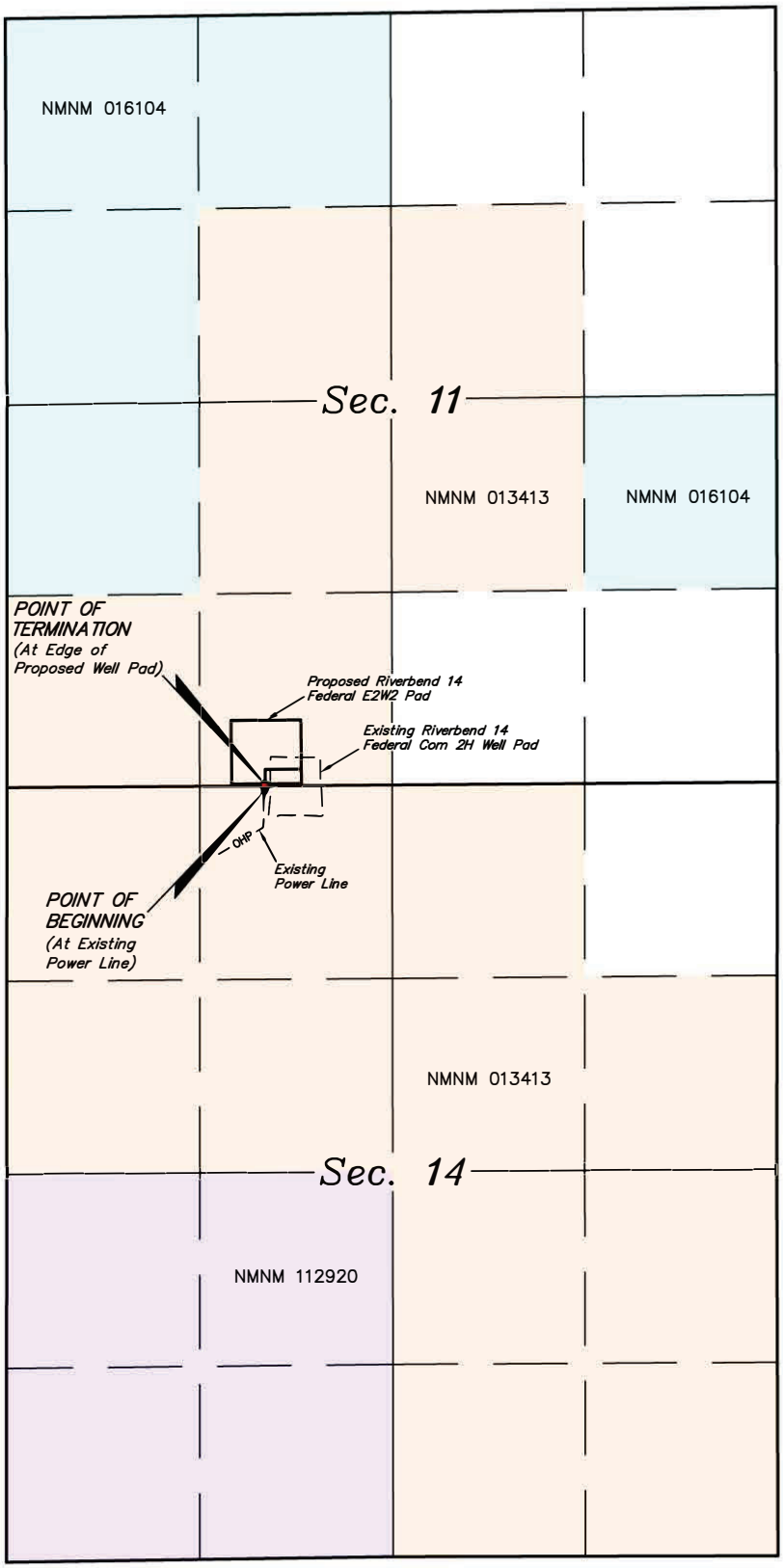
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-B1		
BULK LINE R-O-W			EXHIBIT G

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE:
- Colored areas within section lines represent Federal oil & gas leases.

LEGEND:
- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

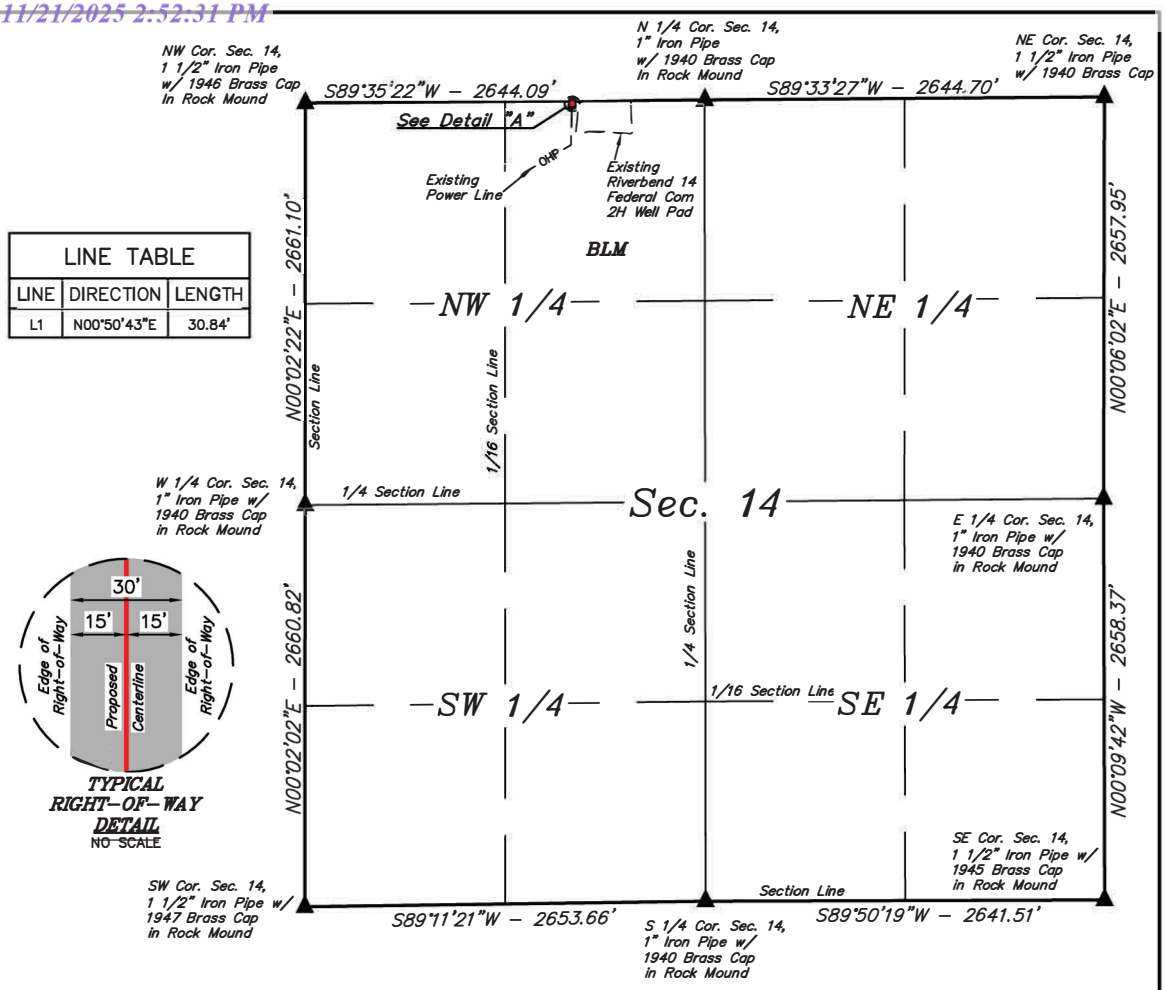
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CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTIONS 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	**SCALE**
DRAWN BY	L.T.T.	11-12-24	1" = 1000'

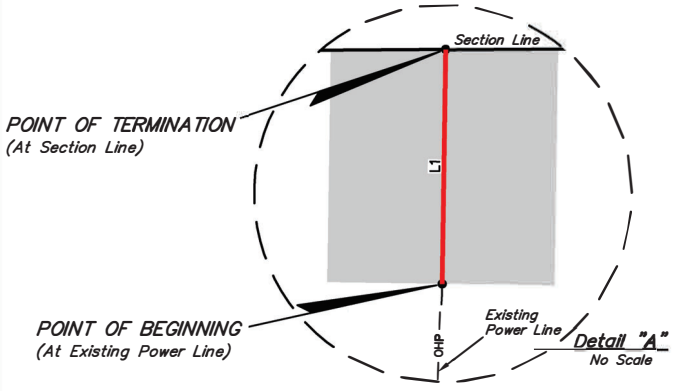
OVERALL POWER LINE



POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S87°34'46"W 879.10' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N00°50'43"E 30.84' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S89°35'22"W 877.88' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.021 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S87°34'46"W 879.10' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S89°35'22"W 877.88' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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NEW MEXICO 23782 PROFESSIONAL SURVEYOR 11-12-24

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	30.84	1.87	0.021

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

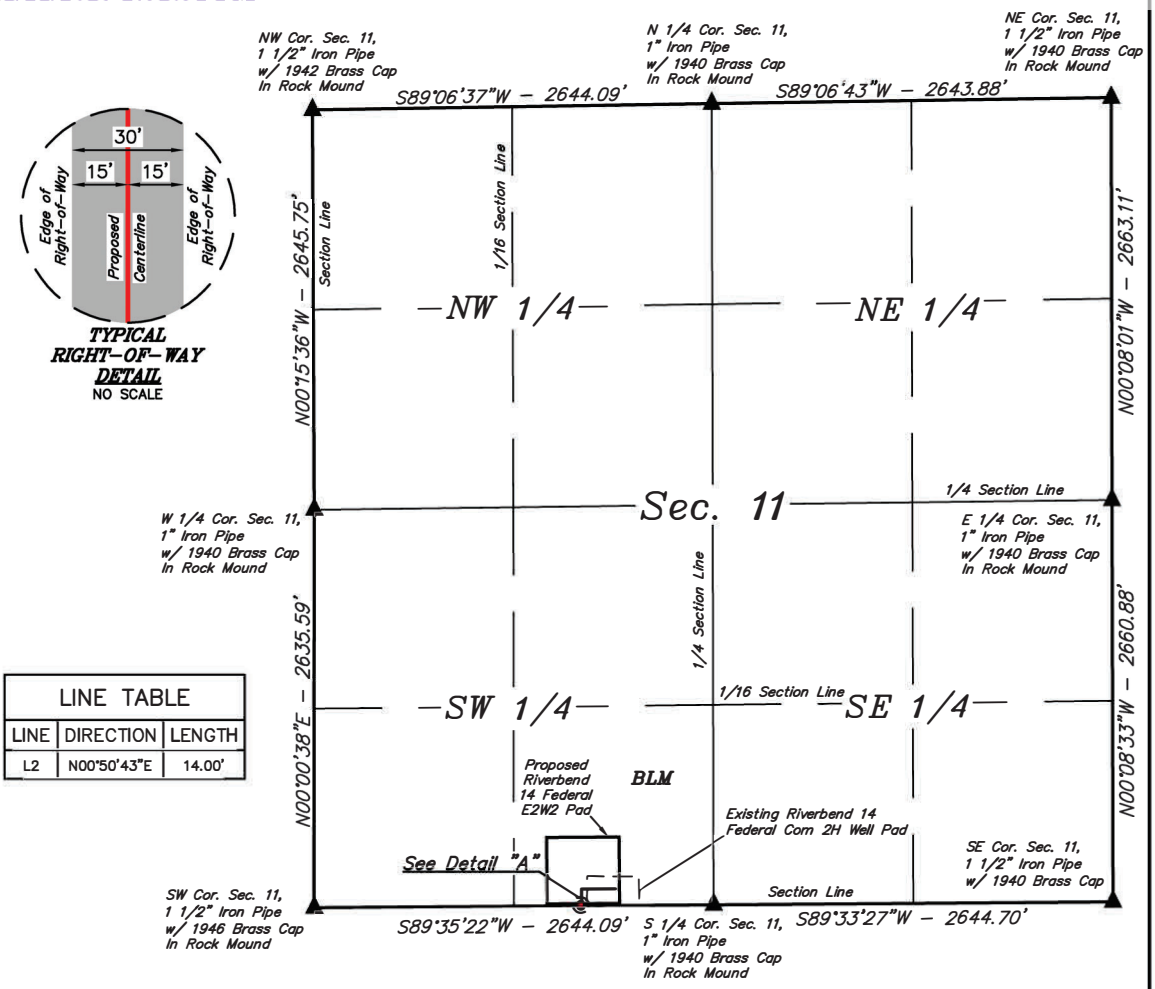
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-A1		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

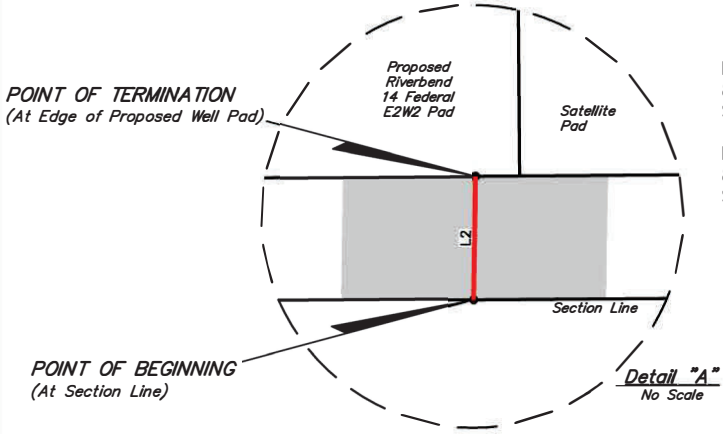


LINE TABLE		
LINE	DIRECTION	LENGTH
L2	N00°50'43"E	14.00'

POWER LINE RIGHT–OF–WAY DESCRIPTION

A 30' WIDE RIGHT–OF–WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

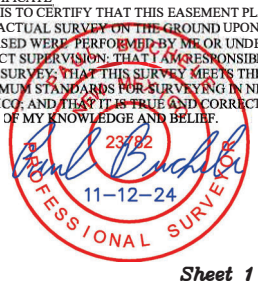
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POINT OF BEGINNING BEARS S89°35'22"W 877.88' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

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ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	14.00	0.85	0.010

▲ = SECTION CORNERS LOCATED.

1000' 500' 0' 1000'

Sheet 1 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-B1		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type: ☑ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
	53610	San Lorenzo; Bone Spring, North

Property Code	Property Name	Well Number
	RIVERBEND 14 FEDERAL COM	8H

OGRID No.	Operator Name	Ground Level Elevation
162683	CIMAREX ENERGY CO.OF COLORADO	2,935.3'

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 (NAD 83)	Longitude (NAD 83)	County
N	11	25S	28E		264 SOUTH	1,840 WEST	32.138125°	-104.060561°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	690 EAST	32.137194°	-104.051648°	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 (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,920 EAST	32.137163°	-104.055621°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,920 EAST	32.137163°	-104.055621°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	690 EAST	32.137194°	-104.051648°	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 of my 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 or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore 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.

Crystal Denson 6/11/2025

Signature Date

Crystal Denson

Printed Name

crystal.denson@coterra.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from the 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.

PAUL BUCHELE NEW MEXICO 23782 04-30-25 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

23782 August 7, 2024

Certificate Number Date of Survey

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name	Well Number	Drawn By	Revised By
RIVERBEND 14 FEDERAL COM	8H	L.T.T. 11-12-24	REV: 2 T.I.R. 04-30-25 (UPDATE WELLBORE & WELL NAME)

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'17.25" (32.138125°)
LONGITUDE = -104°03'38.02" (-104.060561°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'16.81" (32.138002°)
LONGITUDE = -104°03'36.26" (-104.060072°)
STATE PLANE NAD 83 (N.M. EAST)
N: 414092.51' E: 625766.85'
STATE PLANE NAD 27 (N.M. EAST)
N: 414034.43' E: 584582.65'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°08'13.79" (32.137163°)
LONGITUDE = -104°03'20.23" (-104.055621°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°08'13.34" (32.137040°)
LONGITUDE = -104°03'18.47" (-104.055132°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413746.33' E: 627296.84'
STATE PLANE NAD 27 (N.M. EAST)
N: 413688.23' E: 586112.60'

NAD 83 (KOP 2)
LATITUDE = 32°07'29.34" (32.124818°)
LONGITUDE = -104°03'20.14" (-104.055594°)
NAD 27 (KOP 2)
LATITUDE = 32°07'28.90" (32.124695°)
LONGITUDE = -104°03'18.38" (-104.055106°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409255.48' E: 627316.63'
STATE PLANE NAD 27 (N.M. EAST)
N: 409197.47' E: 586132.29'

NAD 83 (NPZ 1)
LATITUDE = 32°07'24.75" (32.123541°)
LONGITUDE = -104°03'17.64" (-104.054900°)
NAD 27 (NPZ 1)
LATITUDE = 32°07'24.31" (32.123418°)
LONGITUDE = -104°03'15.88" (-104.054412°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408791.76' E: 627532.70'
STATE PLANE NAD 27 (N.M. EAST)
N: 408733.76' E: 586348.35'

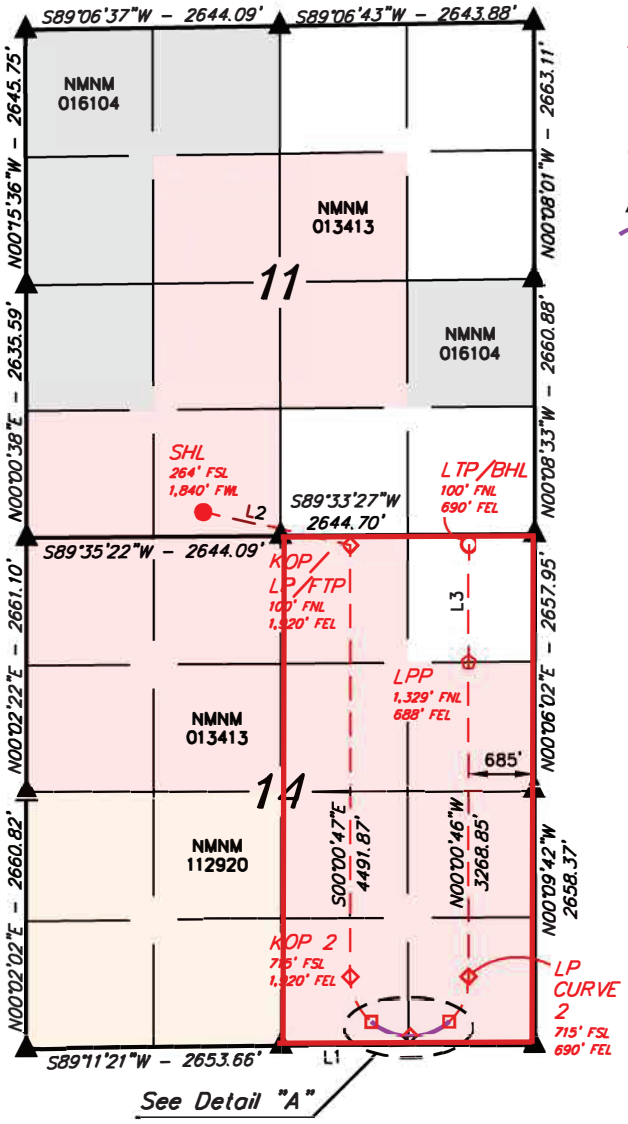
NAD 83 (PEAK CURVE 2)
LATITUDE = 32°07'23.29" (32.123135°)
LONGITUDE = -104°03'12.96" (-104.053599°)
NAD 27 (PEAK CURVE 2)
LATITUDE = 32°07'22.84" (32.123012°)
LONGITUDE = -104°03'11.20" (-104.053111°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408644.93' E: 627935.78'
STATE PLANE NAD 27 (N.M. EAST)
N: 408586.92' E: 586751.41'

NAD 83 (NPZ 2)
LATITUDE = 32°07'24.78" (32.123551°)
LONGITUDE = -104°03'08.29" (-104.052303°)
NAD 27 (NPZ 2)
LATITUDE = 32°07'24.34" (32.123428°)
LONGITUDE = -104°03'06.53" (-104.051815°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408797.38' E: 628336.76'
STATE PLANE NAD 27 (N.M. EAST)
N: 408739.37' E: 587152.39'

NAD 83 (LP CURVE 2)
LATITUDE = 32°07'29.40" (32.124833°)
LONGITUDE = -104°03'05.84" (-104.051622°)
NAD 27 (LP CURVE 2)
LATITUDE = 32°07'28.95" (32.124709°)
LONGITUDE = -104°03'04.08" (-104.051134°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409264.08' E: 628546.33'
STATE PLANE NAD 27 (N.M. EAST)
N: 409206.05' E: 587361.96'

NAD 83 (LPP)
LATITUDE = 32°08'01.74" (32.133816°)
LONGITUDE = -104°03'05.91" (-104.051641°)
NAD 27 (LPP)
LATITUDE = 32°08'01.30" (32.133693°)
LONGITUDE = -104°03'04.15" (-104.051152°)
STATE PLANE NAD 83 (N.M. EAST)
N: 412532.18' E: 628531.95'
STATE PLANE NAD 27 (N.M. EAST)
N: 412474.09' E: 587347.65'

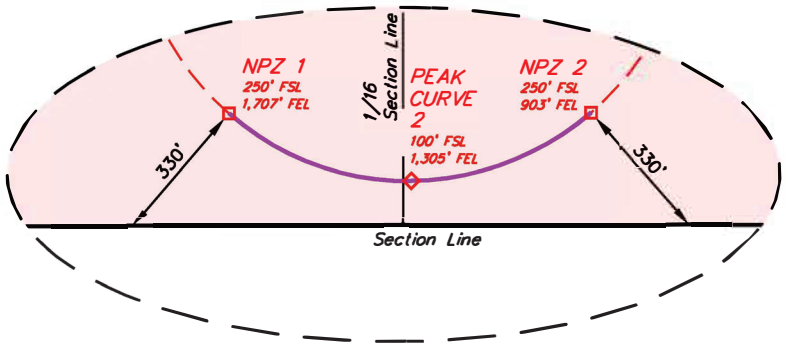
NAD 83 (LTP/BHL)
LATITUDE = 32°08'13.90" (32.137194°)
LONGITUDE = -104°03'05.93" (-104.051648°)
NAD 27 (LTP/BHL)
LATITUDE = 32°08'13.46" (32.137071°)
LONGITUDE = -104°03'04.17" (-104.051159°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413760.96' E: 628526.54'
STATE PLANE NAD 27 (N.M. EAST)
N: 413702.85' E: 587342.27'



● = SURFACE HOLE LOCATION
◇ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
□ = NPZ POINT
⬠ = LEASE PENETRATION POINT
○ = LAST TAKE POINT/BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
⌒ = NON-PERFORATION ZONE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°50'19"W	2641.51'
L2	S77°00'40"E	1569.01'
L3	N00°00'46"W	1229.06'

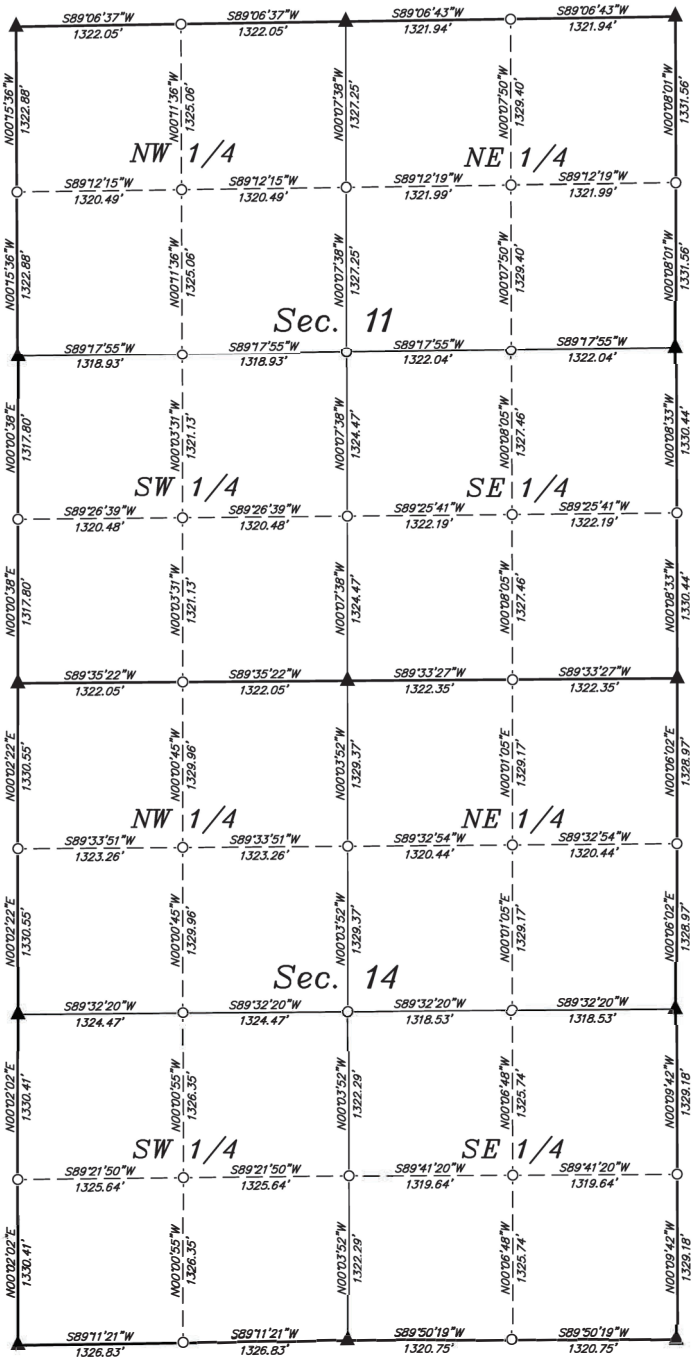
NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.



Detail "A"
No Scale



Sheet 2 of 2



1000' 500' 0' 1000'

SCALE

▲ = SECTION CORNERS LOCATED

○ = DIMENSION CORNER ONLY

BASIS OF BEARINGS

BASIS OF BEARING IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00"

N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
SECTION 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'

SECTION BREAKDOWN

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

RIVERBEND 14 FEDERAL COM 1H 264' FSL 1,880' FWL	RIVERBEND 14 FEDERAL COM 3H 264' FSL 1,860' FWL
RIVERBEND 14 FEDERAL COM 8H 264' FSL 1,840' FWL	RIVERBEND 14 FEDERAL COM 4H 264' FSL 1,800' FWL
RIVERBEND 14 FEDERAL COM 7H 264' FSL 1,820' FWL	

CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

"D" "C" "B" "A"

5 F-4.3' El. 33.9'

180'

120'

6 F-8.4' El. 29.8'

Alternate Egress

7 F-12.3' El. 25.9'

Approximate Topsoil Fill Area

80'

N00°24'38"W 110'

F-2.5' El. 35.7'

4H 7H 8H 3H 1H

F-3.7' El. 34.5'

260'

140'

20' 20' 20' 20'

4 F-0.1' El. 38.1'

Approx. Center of Pad (NAD 83)
Lat: 32°08'16.95"
Long: -104°03'38.71"

8 F-7.1' El. 31.1'

60'

69'

20' 20'

80'

4'

C-0.3' El. 38.5'

SHL SHL SHL

F-0.5' El. 37.7'

9 C-0.2' El. 38.4'

86'

81'

250'

36'

34'

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Approx. Top of Cut Slope

Satellite Pad

100'

3 C-5.7' El. 43.9'

230'

35'

35'

1

180'

10

Section Line

2 C-1.0' El. 39.2'

Section 11

Section 14

Existing Anchor

Existing Power Pole (Typ.)

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Power Line

Existing Edge of Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

FINISHED GRADE ELEVATION = 2,938'

NOTE: Earthwork Calculations Require a Fill @ some Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

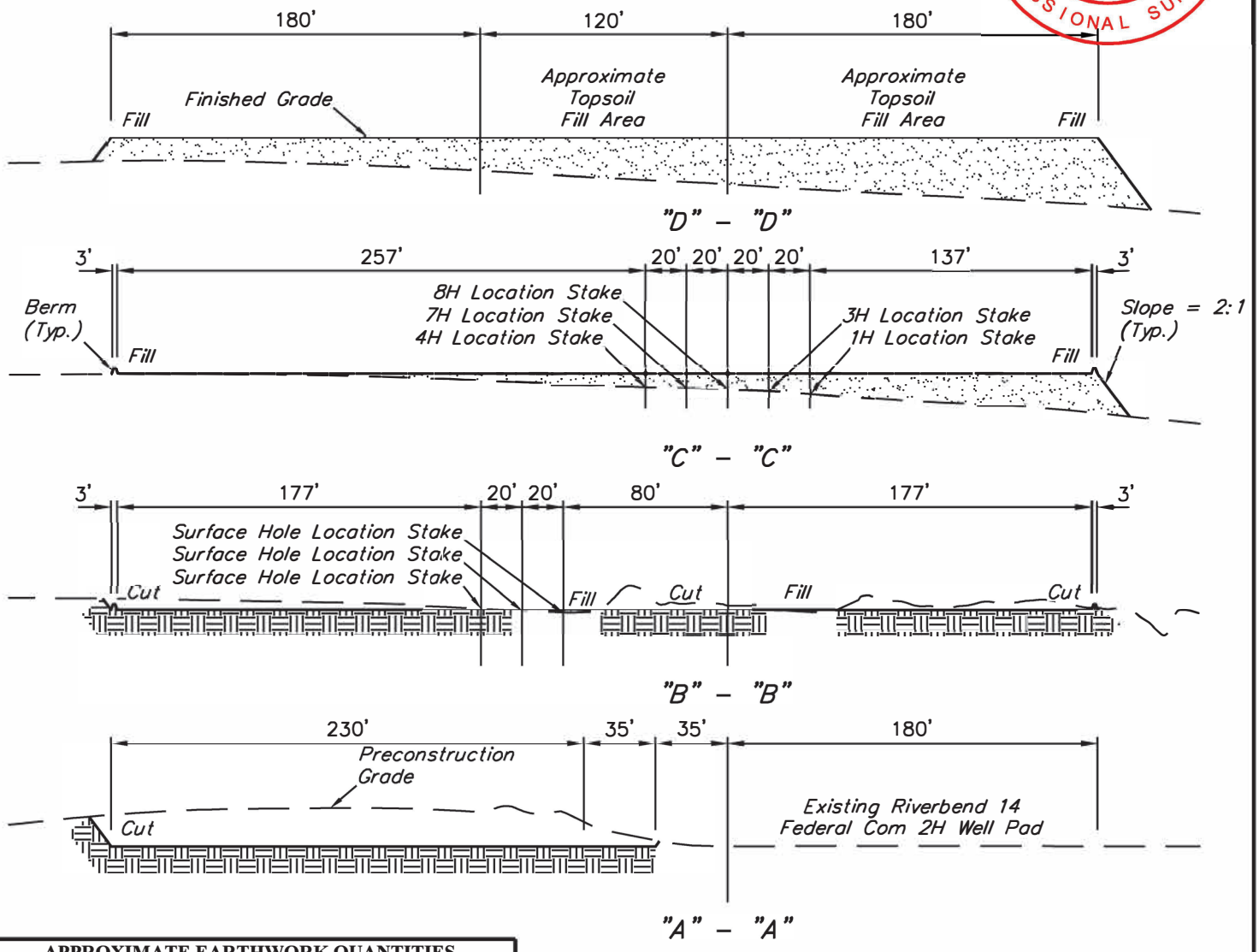
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'
LOCATION LAYOUT			EXHIBIT J

1" = 30'
X-Section Scale
1" = 80'

PAUL BUCHELE
NEW MEXICO
23782
04-30-25
PROFESSIONAL SURVEYOR



APPROXIMATE EARTHWORK QUANTITIES	
(3") TOPSOIL STRIPPING (NEW CONSTRUCTION ONLY; USED IN CONSTRUCTION)	1,460 Cu. Yds.
REMAINING LOCATION	7,140 Cu. Yds.
TOTAL CUT	**8,600 Cu. Yds.**
FILL	**22,300 Cu. Yds.**
<DEFICIT> MATERIAL	<13,700> Cu. Yds.
<DEFICIT> UNBALANCE (After Interim Rehabilitation)	**<13,700> Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA DISTURBANCE	NA	±4.432
70' WIDE BULK LINE R-O-W DISTURBANCE	±869.83'	±1.398
30' WIDE POWER LINE R-O-W DISTURBANCE	±44.84'	±0.031
TOTAL SURFACE USE AREA		**±5.861**

REV: 5 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:
- Fill quantity includes 5% for compaction.
- Cut/Fill slopes 2:1 (Typ. except where noted)

CIMAREX ENERGY CO.

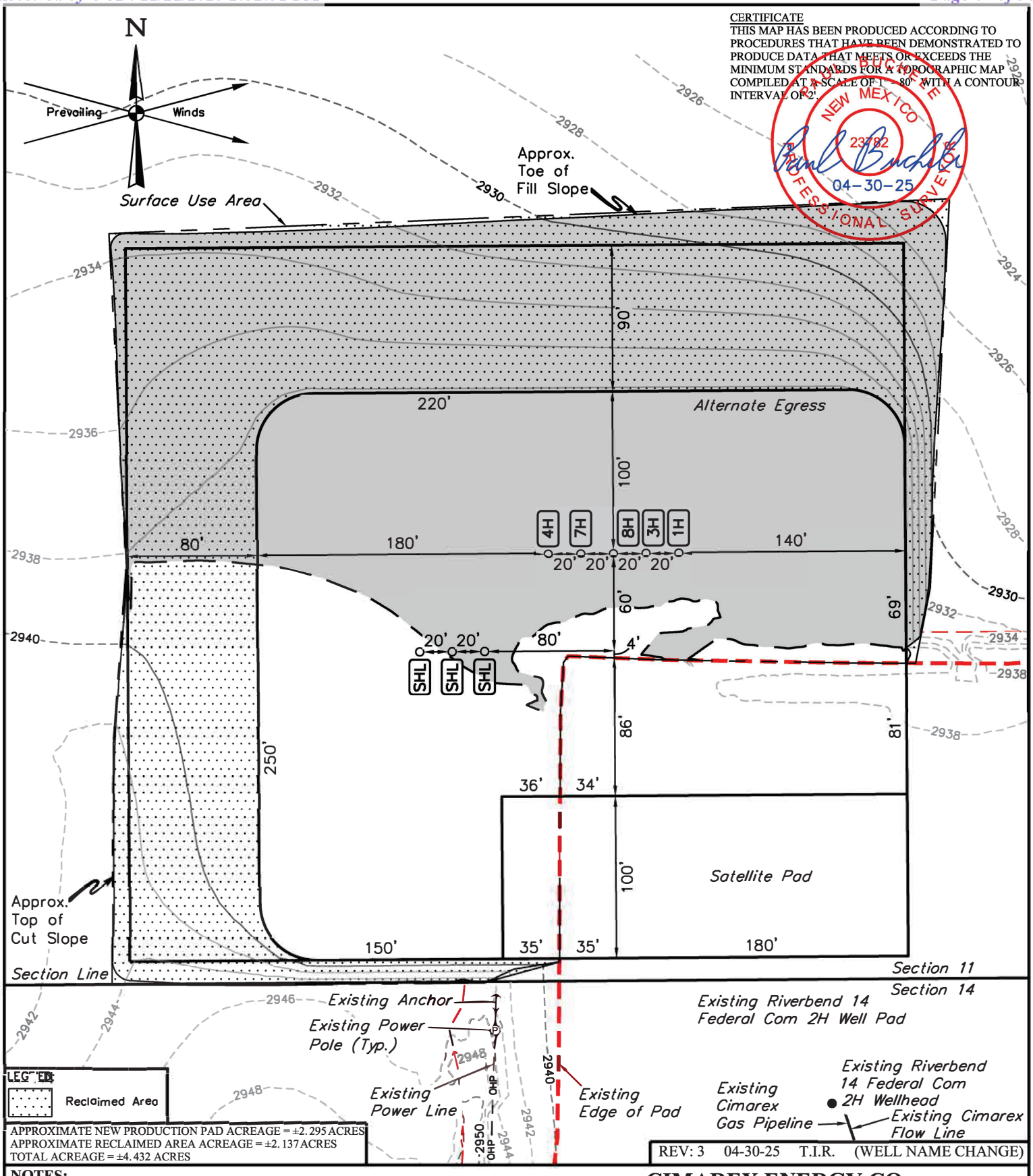
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	D.M.C.	08-20-24	AS SHOWN

TYPICAL CROSS SECTIONS **EXHIBIT J**



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

REGISTERED PROFESSIONAL SURVEYOR NEW MEXICO 23782 Paul Buchheit 04-30-25

LEGEND
Reclaimed Area

APPROXIMATE NEW PRODUCTION PAD ACREAGE = ±2.295 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±2.137 ACRES
TOTAL ACREAGE = ±4.432 ACRES

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:
- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

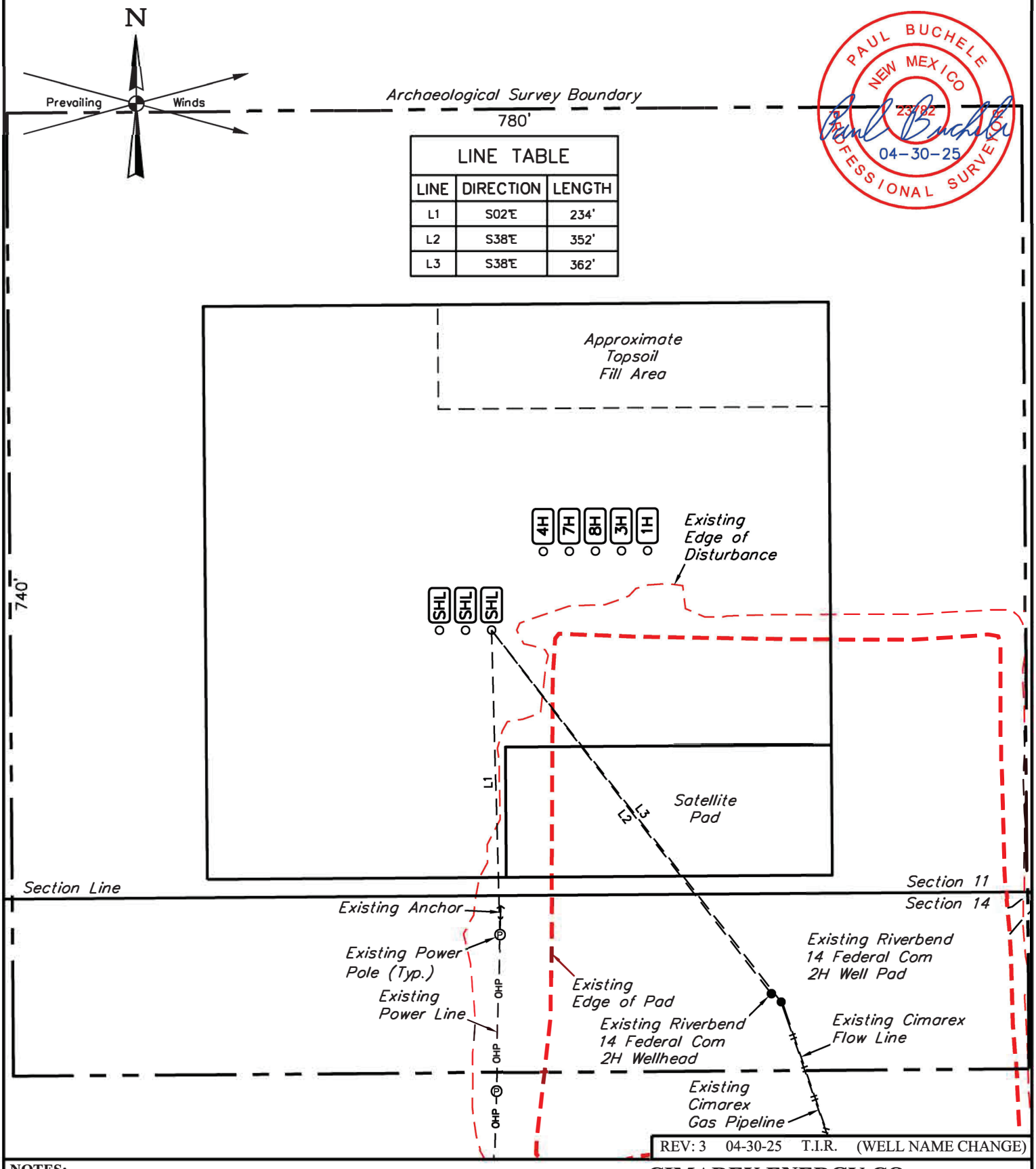
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H..	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'

RECLAMATION DIAGRAM **EXHIBIT P**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S02°E	234'
L2	S38°E	352'
L3	S38°E	362'

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H..	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT L

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.2 MILES TO THE EXISTING RIVERBEND 14 FEDERAL COM 2H WELL PAD AND THE PROPOSED LOCATION.

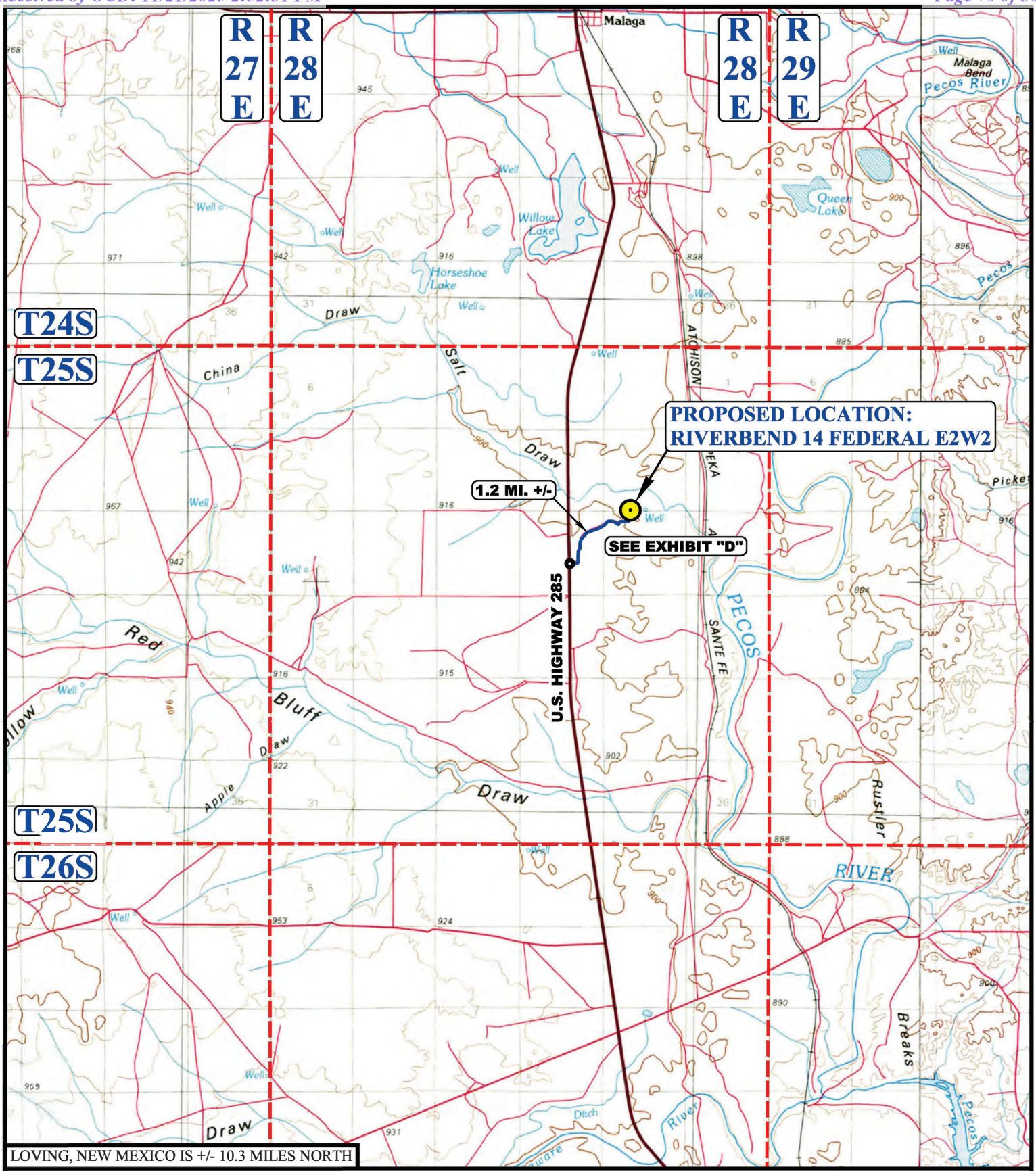
TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.2 MILES.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	
DRAWN BY	D.M.C.	08-20-24	
ROAD DESCRIPTION			**EXHIBIT A**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LEGEND:

⊙ **PROPOSED LOCATION**

N

CIMARE X ENERGY CO.

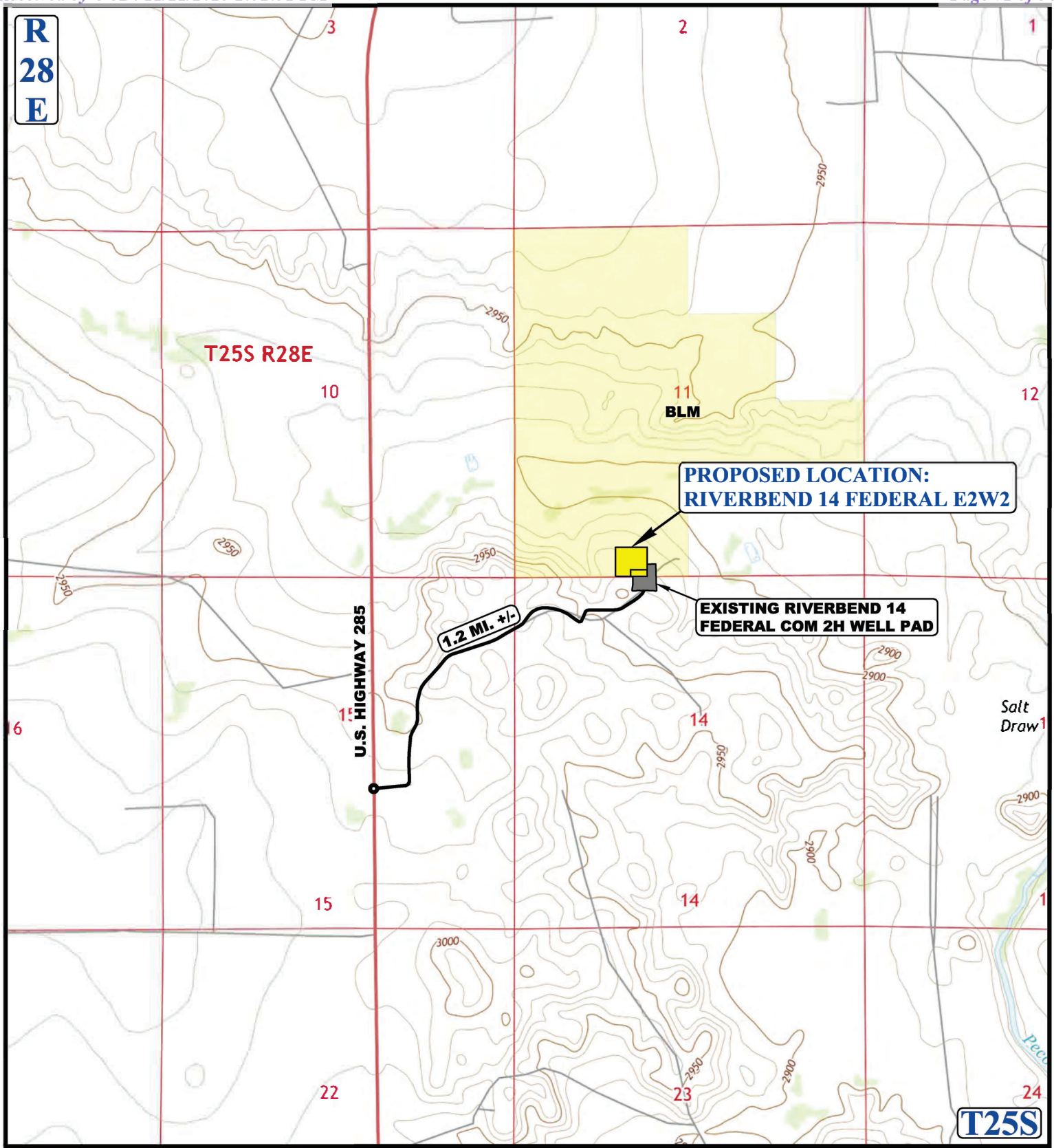
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	**SCALE**
DRAWN BY	D.M.C.	08-20-24	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT B**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

EXISTING ROAD

N

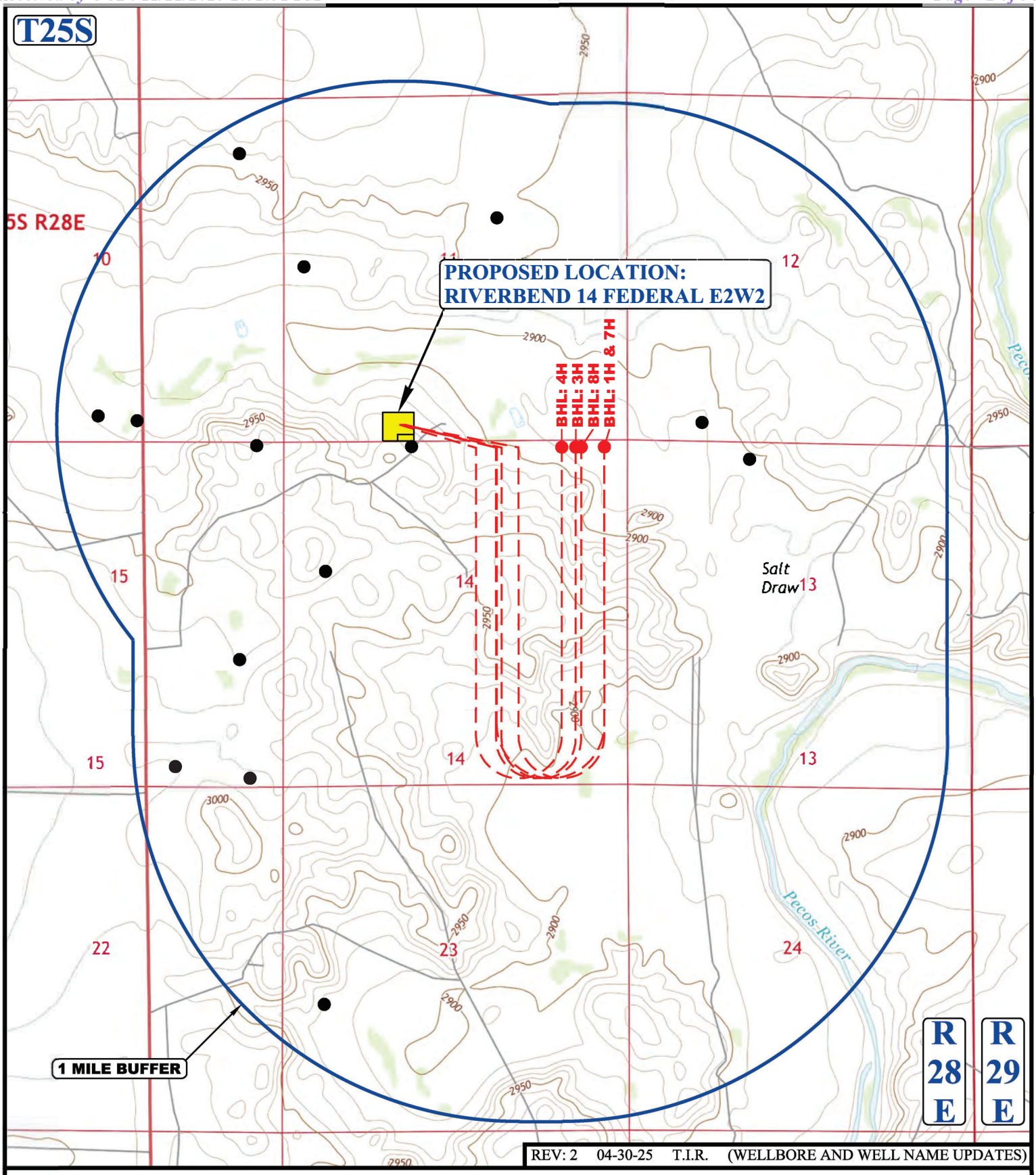
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1 : 24,000
NEW ROAD MAP			EXHIBIT D

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



REV: 2 04-30-25 T.I.R. (WELLBORE AND WELL NAME UPDATES)

LEGEND:

● EXISTING WELLS

N

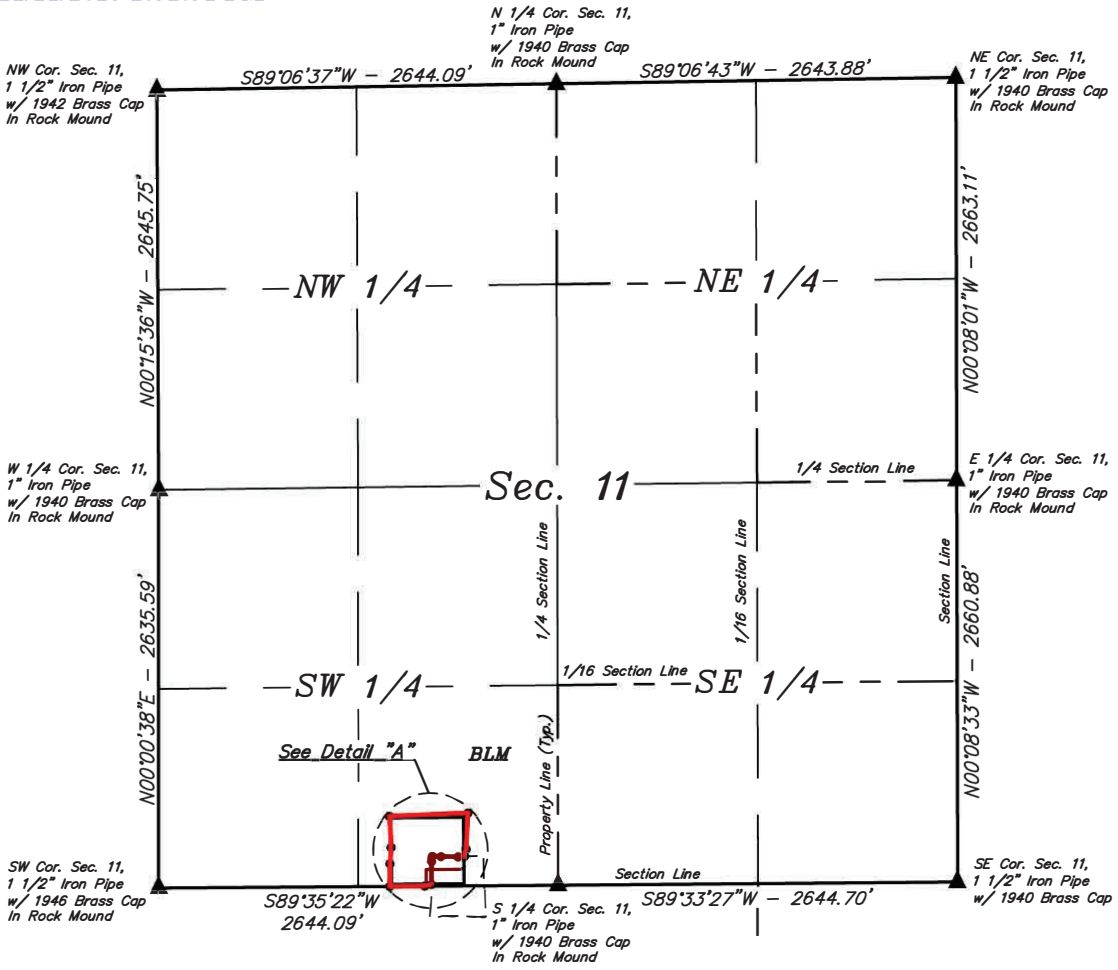
CIMARE X ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1 : 24,000
WELL PROXIMITY MAP			TOPO C

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



SURFACE USE AREA DESCRIPTION

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE N72°52'30"W 647.00' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF BEGINNING; THENCE N89°43'03"W 42.85'; THENCE N89°02'25"W 113.95'; THENCE N87°46'39"W 57.29'; THENCE S37°37'35"W 4.82'; THENCE S03°23'16"W 31.44'; THENCE S00°16'13"W 153.80'; THENCE S74°38'09"W 45.97' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11; THENCE S89°35'22"W 231.61' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11; THENCE N00°18'48"E 148.92'; THENCE N04°09'04"E 108.59'; THENCE N02°58'38"W 206.43'; THENCE N87°38'09"E 518.82'; THENCE S02°48'26"W 240.26'; THENCE S11°05'22"W 47.19' TO THE POINT OF BEGINNING. CONTAINS 4.428 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS N72°52'30"W
647.00' FROM THE SOUTH 1/4 CORNER
OF SECTION 11, T25S, R28E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 11 (SW 1/4)	4.428

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

23782 PROFESSIONAL SURVEYOR 08-20-24

Sheet 1 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

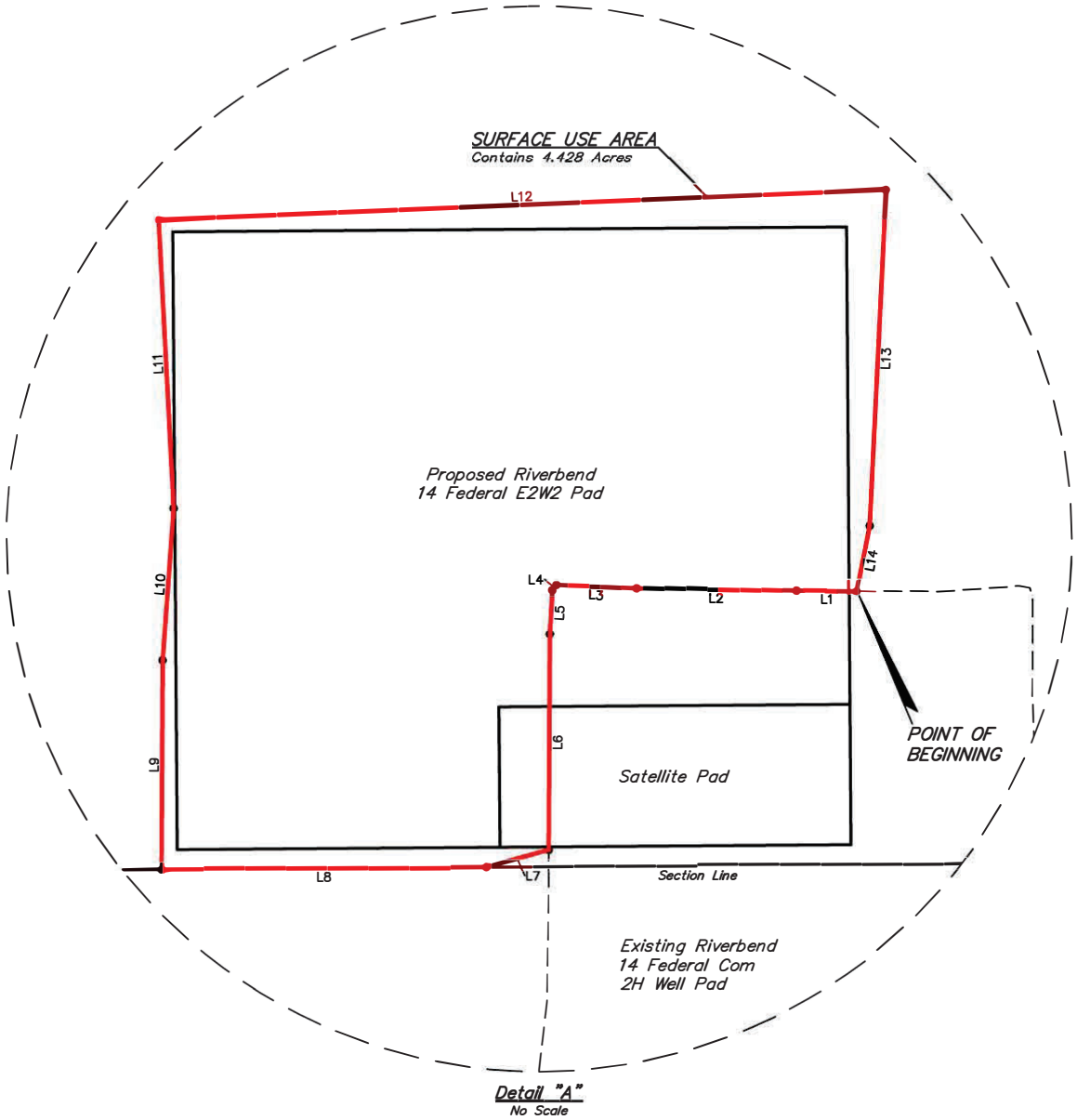
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-A1		

SURFACE USE AREA

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°43'03"W	42.85'
L2	N89°02'25"W	113.95'
L3	N87°46'39"W	57.29'
L4	S37°37'35"W	4.82'
L5	S03°23'16"W	31.44'
L6	S00°16'13"W	153.80'
L7	S74°38'09"W	45.97'
L8	S89°35'22"W	231.61'
L9	N00°18'48"E	148.92'
L10	N04°09'04"E	108.59'
L11	N02°58'38"W	206.43'
L12	N87°38'09"E	518.82'
L13	S02°48'26"W	240.26'
L14	S11°05'22"W	47.19'

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

Sheet 2 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

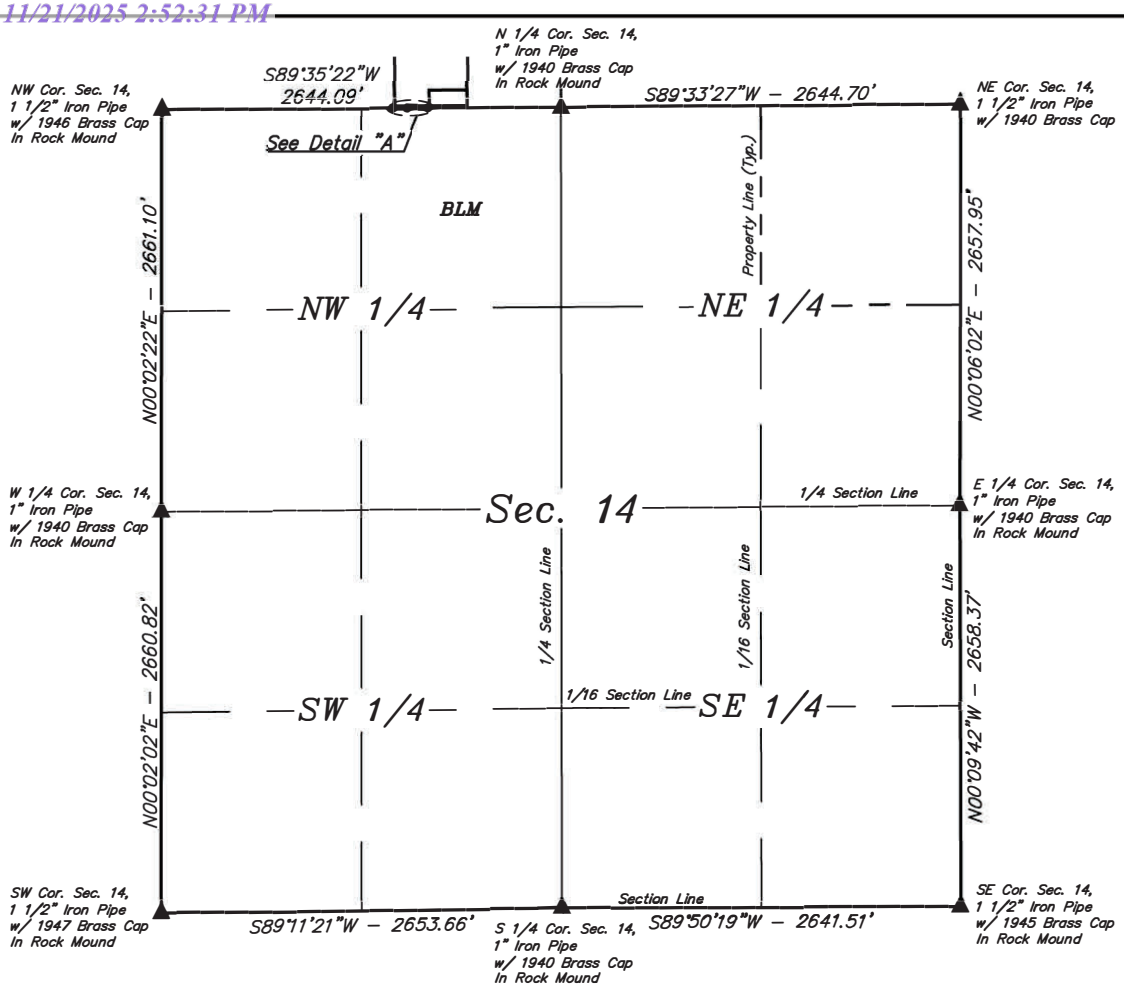
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-B1		

SURFACE USE AREA

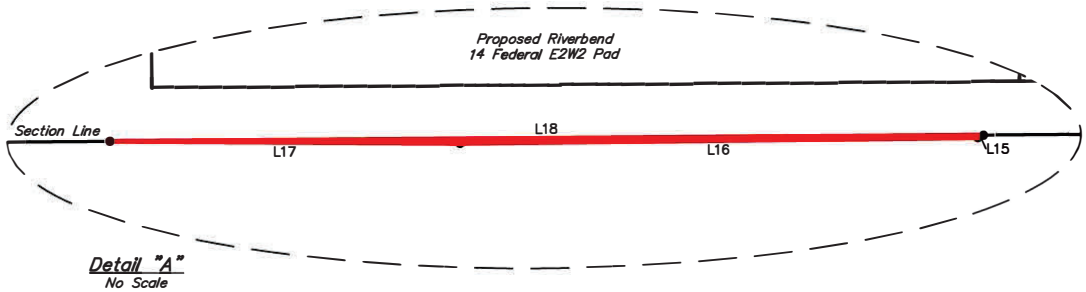
UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 882.23' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S66°42'17"W 1.80'; THENCE S89°22'43"W 137.12'; THENCE N89°40'05"W 92.84' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14; THENCE N89°35'22"E 231.61' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING. CONTAINS 0.004 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S89°35'22"W 882.23' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.004

▲ = SECTION CORNERS LOCATED.

LINE TABLE		
LINE	DIRECTION	LENGTH
L15	S66°42'17"W	1.80'
L16	S89°22'43"W	137.12'
L17	N89°40'05"W	92.84'
L18	N89°35'22"E	231.61'

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

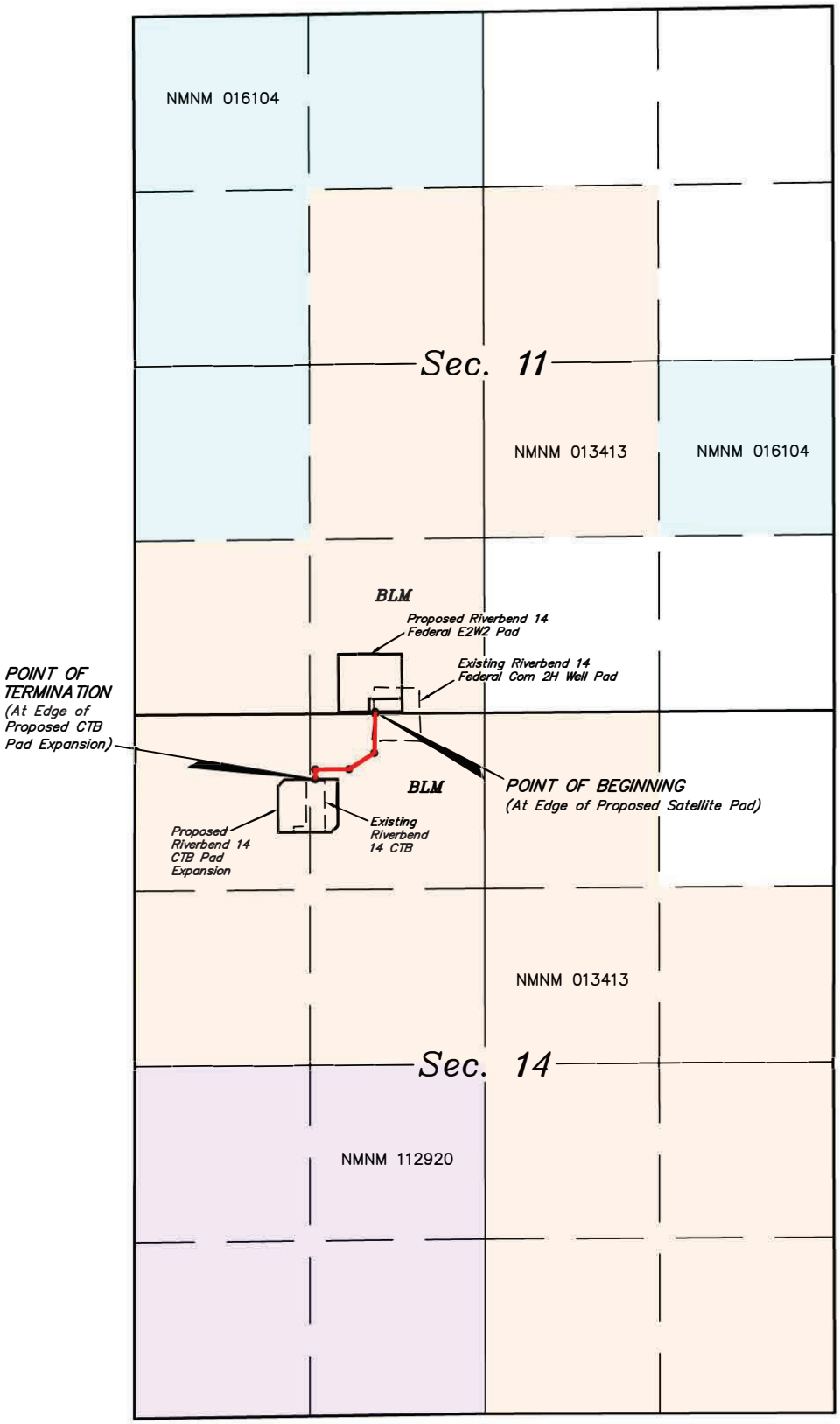
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-B		

SURFACE USE AREA

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE:
- Colored areas within section lines represent Federal oil & gas leases.

LEGEND:
- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

N

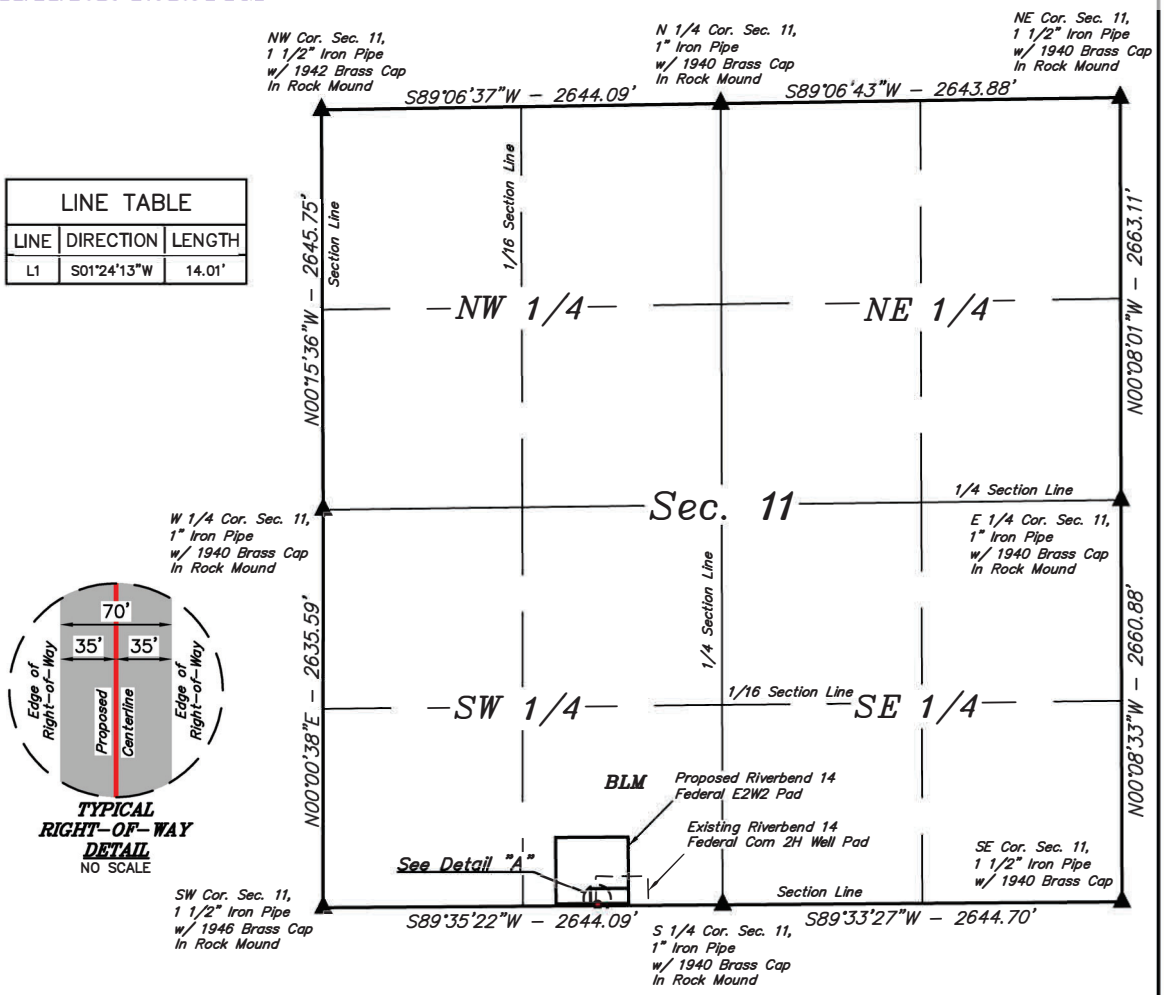
REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTIONS 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	**SCALE**
DRAWN BY	T.I.R.	09-24-24	1" = 1000'

OVERALL BULK LINE



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S01°24'13"W	14.01'

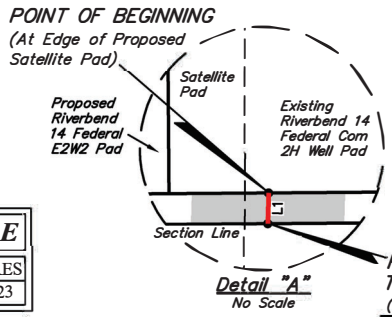
BULK LINE RIGHT-OF-WAY DESCRIPTION

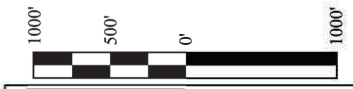
A 70' WIDE RIGHT-OF-WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE N89°26'26"W 827.06' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF BEGINNING; THENCE S01°24'13"W 14.01' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS S89°35'22"W 827.38' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.023 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS N89°26'26"W 827.06' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S89°35'22"W 827.38' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

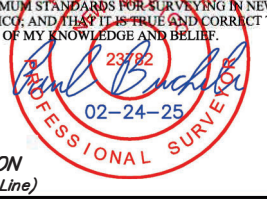




ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 11 (SW 1/4)	14.01	0.85	0.023

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
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REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

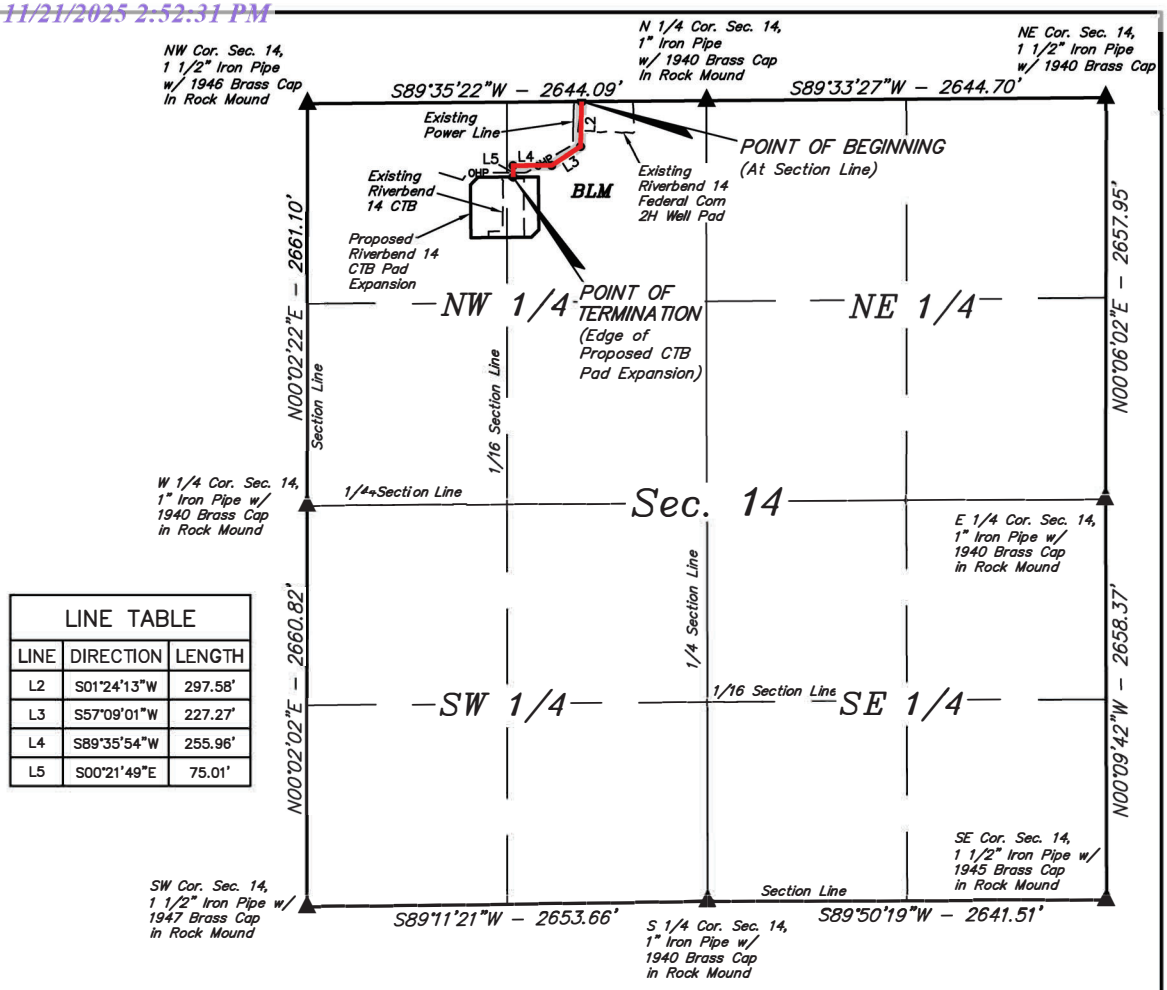
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-A1		
BULK LINE R-O-W			EXHIBIT G

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L2	S01°24'13"W	297.58'
L3	S57°09'01"W	227.27'
L4	S89°35'54"W	255.96'
L5	S00°21'49"E	75.01'

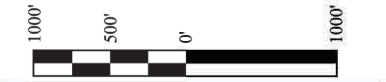
BULK LINE RIGHT–OF–WAY DESCRIPTION

A 70' WIDE RIGHT–OF–WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 827.38' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S01°24'13"W 297.58'; THENCE S57°09'01"W 227.27'; THENCE S89°35'54"W 255.96'; THENCE S00°21'49"E 75.01' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S68°32'37"W 1376.45' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 1.375 ACRES MORE OR LESS.

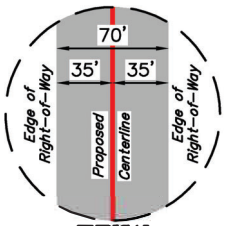
POINT OF BEGINNING BEARS S89°35'22"W 827.38' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S68°32'37"W 1376.45' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.



ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	855.82	51.87	1.375

▲ = SECTION CORNERS LOCATED.



TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

CERTIFICATE
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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
02–24–25

REV: 2 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

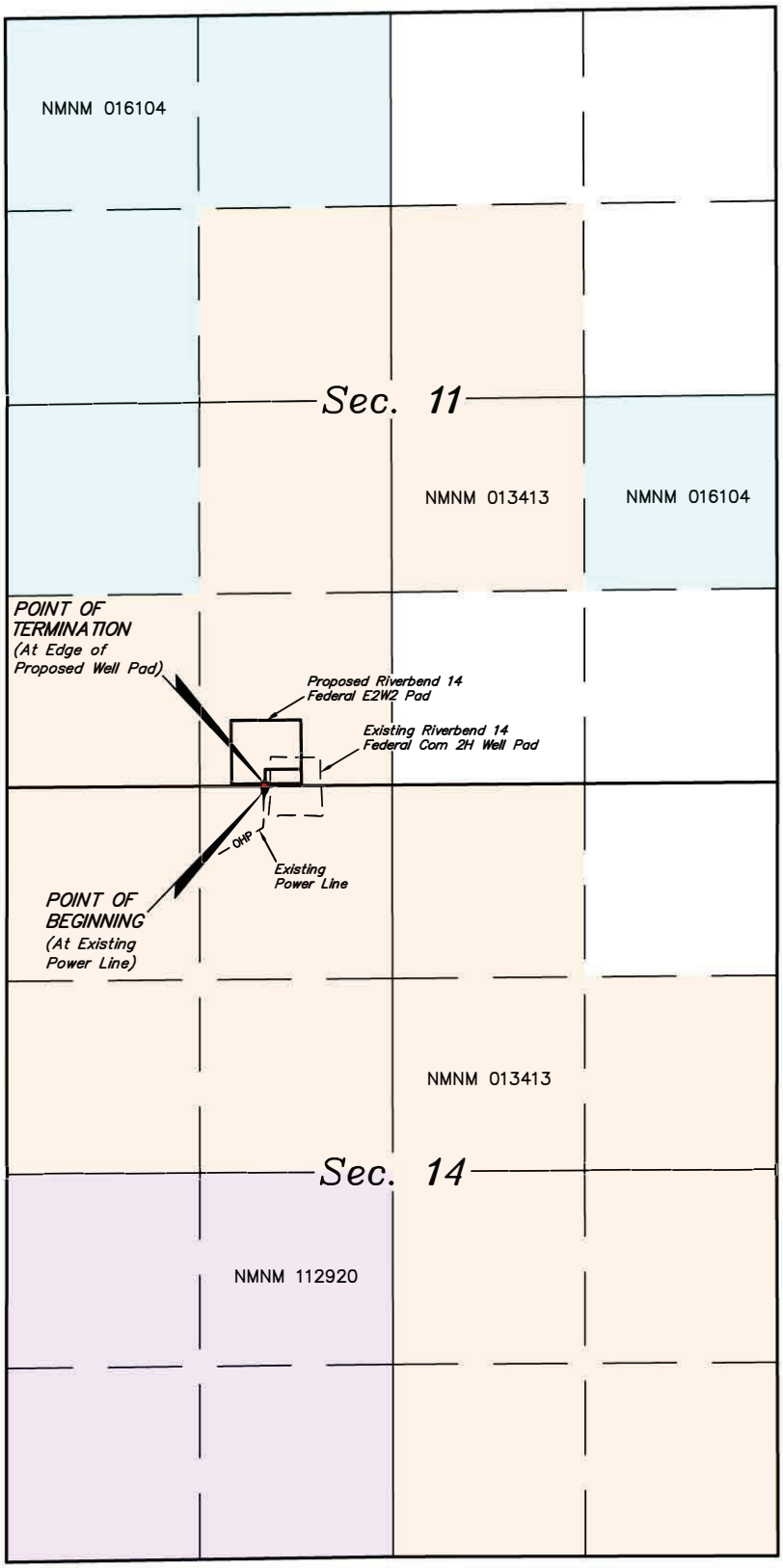
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-B1		
BULK LINE R-O-W			EXHIBIT G

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE:
- Colored areas within section lines represent Federal oil & gas leases.

LEGEND:
- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

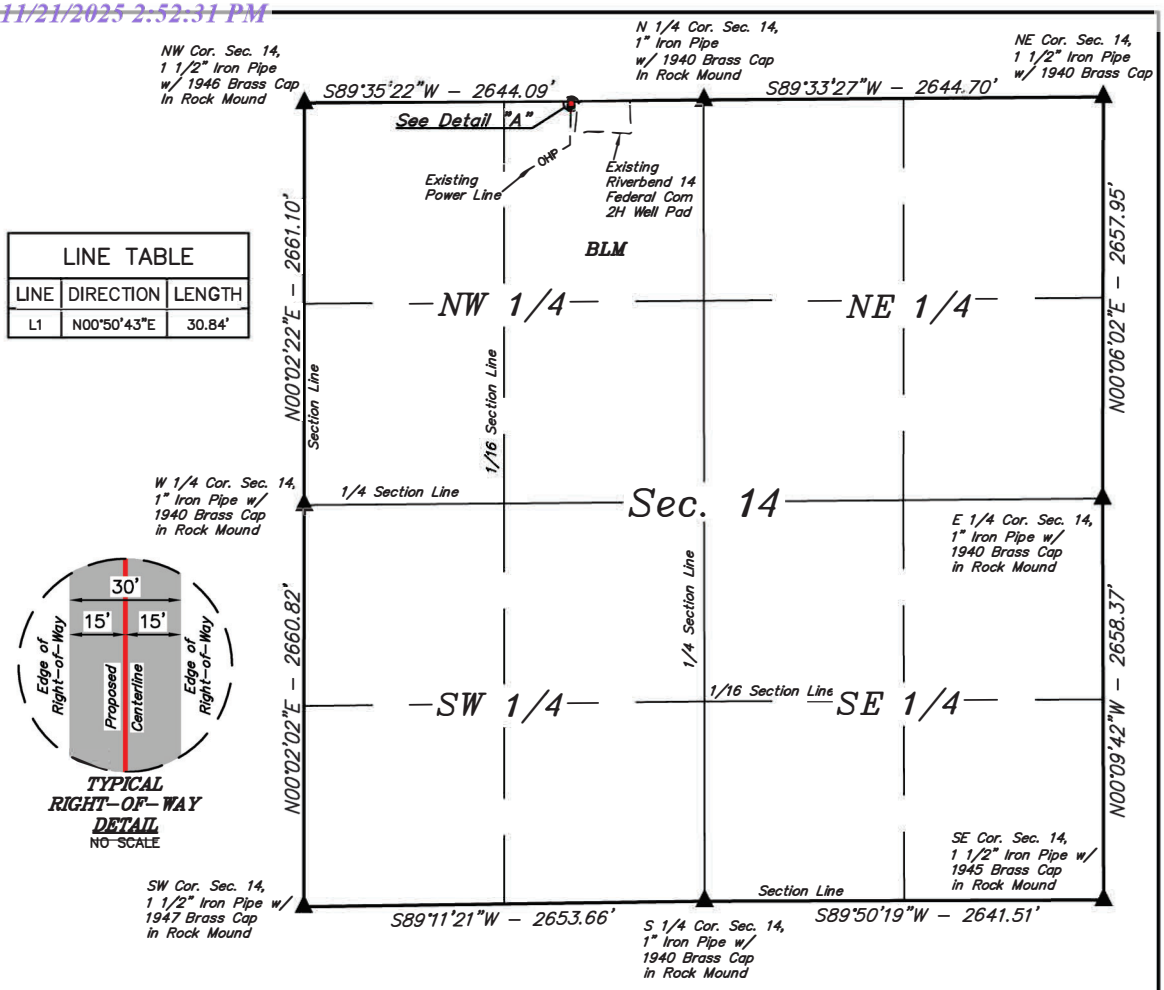
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CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTIONS 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	**SCALE**
DRAWN BY	L.T.T.	11-12-24	1" = 1000'

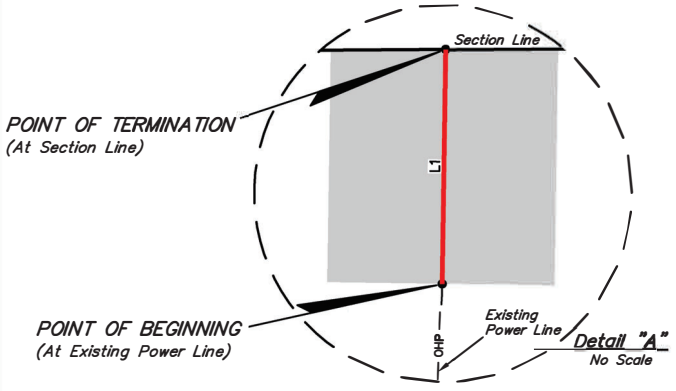
OVERALL POWER LINE



POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S87°34'46"W 879.10' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N00°50'43"E 30.84' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S89°35'22"W 877.88' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.021 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S87°34'46"W 879.10' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S89°35'22"W 877.88' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

CERTIFICATE

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23782 — Paul Buchheit — 11-12-24 — NEW MEXICO — PROFESSIONAL SURVEYOR

ACREAGE / LENGTH TABLE

LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	30.84	1.87	0.021

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

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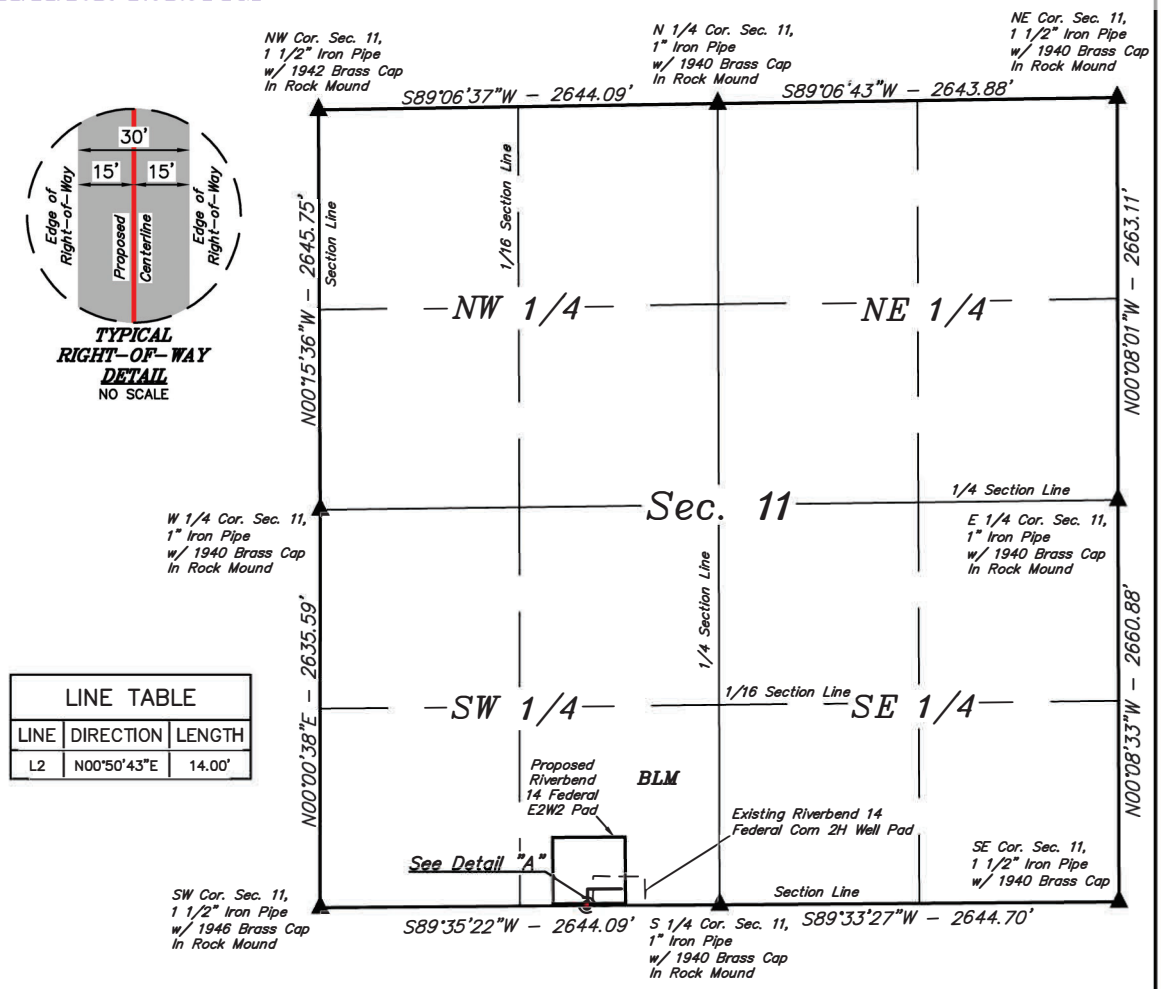
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-A1		
POWER LINE R-O-W			EXHIBIT I

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Vernal, UT 84078 * (435) 789-1017

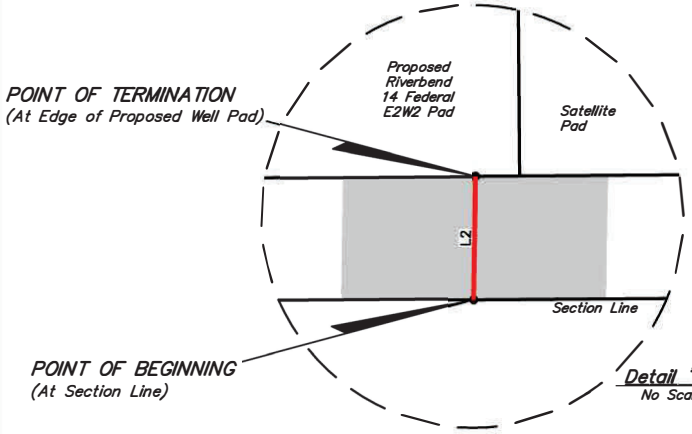


LINE TABLE		
LINE	DIRECTION	LENGTH
L2	N00°50'43"E	14.00'

POWER LINE RIGHT–OF–WAY DESCRIPTION

A 30' WIDE RIGHT–OF–WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

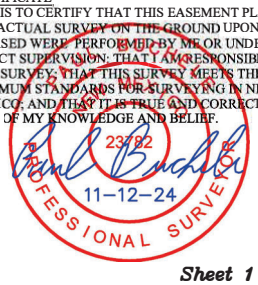
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POINT OF BEGINNING BEARS S89°35'22"W 877.88' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

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ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	14.00	0.85	0.010

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
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SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-B1		
POWER LINE R-O-W			EXHIBIT I

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UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

AFMSS

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

Drilling Plan Data Report
11/06/2025

APD ID: 10400105785 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Well Type: OIL 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
16705594	RUSTLER	0	907	907	ANHYDRITE	USEABLE WATER	N
16705596	TOP SALT	-1570	1570	1570	ANHYDRITE, SALT	NONE	N
16705597	LAMAR	-2362	2362	2362	SANDSTONE	NONE	N
16705598	BELL CANYON	-2550	2550	2550	SANDSTONE	NONE	N
16705599	CHERRY CANYON	-3425	3425	3425	SANDSTONE	NATURAL GAS, OIL	N
16705600	BRUSHY CANYON	-4727	4727	4727	LIMESTONE	NATURAL GAS, OIL	N
16705601	BRUSHY CANYON LOWER	-5670	5670	5670	SANDSTONE	NATURAL GAS, OIL	N
16705602	BONE SPRING LIME	-6334	6334	6334	LIMESTONE	NATURAL GAS, OIL	N
16705603	BONE SPRING 1ST	-7260	7260	7260	SANDSTONE	NATURAL GAS, OIL	N
16705604	BONE SPRING 2ND	-7944	7944	7944	SANDSTONE	NATURAL GAS, OIL	N
16705592	BONE SPRING 3RD	-8304	8304	8304	SANDSTONE	NATURAL GAS, OIL	N
16705593	BONE SPRING 3RD	-9156	9156	9156	SANDSTONE	NATURAL GAS, OIL	Y
16705605		0					N

Section 2 - Blowout Prevention

CONFIDENTIAL

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Pressure Rating (PSI): 10M **Rating Depth:** 19634

Equipment: A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.
Requesting Variance? YES

Variance request: See attached.

Testing Procedure: 1. After running the first string of casing, a 10M BOP/BOPE system with 10M annular will be installed. BOPs will be tested according to Onshore Order #2. BOPE will be tested to full rated pressure (10K for all BOPE). For the low test, the system will be tested to 250 psi. 2. All BOP equipment will be tested utilizing a conventional test plug. 3. A remote kill line is included in the BOPE system 4. All casing strings will be tested per Onshore Order #2, to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of casing burst. 5. If well conditions dictate, conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Choke Diagram Attachment:

NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250728170409.pdf

10M_BOPE_BLM_SUBMISSION_REV.0_20250728170410.pdf

CHOKE_HOSE_M15486_20250728170411.pdf

COTERRA_10K_PROD_TREE_20250728170413.pdf

NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250912154911.pdf

10M_BOPE_BLM_SUBMISSION_REV.0_20250912154912.pdf

CHOKE_HOSE_M15486_20250912154912.pdf

COTERRA_10K_PROD_TREE_20250912154912.pdf

COTERRA_10M_MBU_3T_CFL_13.38_X_9.58_X_5.5_HBE1215DQ_20250930122954.pdf

BOP Diagram Attachment:

10M_BOP_DIAGRAM_20250728170429.pdf

10M_BOP_DIAGRAM_20250912154929.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	13.75	NEW	API	N	0	1050	0	1050	2935	1885	1050	OTHER - H-40/J-55 Hybrid	48	ST&C	1.63	3.8	BUOY	6.39	BUOY	6.39

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

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
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2340	0	2340	2935	595	2340	J-55	36	LT&C	1.61	2.81	BUOY	5.38	BUOY	5.38
3	PRODUCTION	8.75	5.5	NEW	API	N	0	19634	0	8796	2935	-5861	19634	P-110	20	BUTT	2.55	2.84	BUOY	78.75	BUOY	78.75

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

8H_Casing_Assumption_20250930132410.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CONFIDENTIAL

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Casing Attachments

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	750	509	1.72	13.5	876	45	Class C	Bentonite
SURFACE	Tail		750	1050	136	1.34	14.8	183	45	Class C	LCM
INTERMEDIATE	Lead		0	2040	416	1.88	10.3	783	58	35:65 (Poz:C)	Salt, Bentonite
INTERMEDIATE	Tail		2040	2340	137	1.34	14.8	184	58	Class C	LCM
PRODUCTION	Lead		2140	18634	645	3.64	10.3	1895	25	Tuned Light	LCM
PRODUCTION	Tail		18634	19634	3278	1.3	14.2	4262	25	50:50 (Poz:H)	Salt, Bentonite, Fluid Loss, Dispersant, SMS

CONFIDENTIAL

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

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: Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs. The Brine Emulsion is completely saturated brine fluid that ties diesel into itself to lower the weight of the fluid. the drilling fluid is completely salt saturated.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

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	1050	SPUD MUD	7.83	8.33							
1050	2340	OTHER : Brine Diesel Emulsion	9.8	10.3							
2340	19634	OIL-BASED MUD	9	9.5							

Section 6 - Test, Logging, Coring

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

No DST Planned. Logs run on the 4H.

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

DIRECTIONAL SURVEY,

Coring operation description for the well:

N/A

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5260 **Anticipated Surface Pressure:** 3324

Anticipated Bottom Hole Temperature(F): 160

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

H2S_PLAN_REV.0_20250728171839.pdf
H2S_PLAN_REV.0_20250912084602.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

WELL_CONTROL_PLAN_REV.0_20251021171144.pdf
8H_Drilling_Plan_20251021171158.pdf
Riverbend_14_Federal_Com_8H___Plan_1_20251021171239.pdf
Coterra_Energy___Riverbend_14_Federal_Com_8H_Plan_1_20251021171239.pdf
Riverbend_14_Federal_Com_8H___Plan_1_Plot_20251021171240.pdf
Riverbend_14_Federal_Com_8H___Plan_1_AC_20251021171240.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Riverbend_14_8H_Natural_Gas_Plan_Cimarex_20250729090200.pdf
RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250729090228.pdf
RIVERBEND_14_FEDERAL_E2W2_rig_layout_plat_20250730085029.pdf
Riverbend_14_8H_Natural_Gas_Plan_Cimarex_20250912084645.pdf
RIVERBEND_14_FEDERAL_E2W2_rig_layout_plat_20250912084700.pdf
RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250912084701.pdf

Other Variance request(s)?: Y

Other Variance attachment:

NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250728172000.pdf
CHOKE_HOSE_M15486_20250728172001.pdf
NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250912084714.pdf
CHOKE_HOSE_M15486_20250912084715.pdf

CONFIDENTIAL

Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells. Before skidding the rig, a TA cap is installed on the subject well.

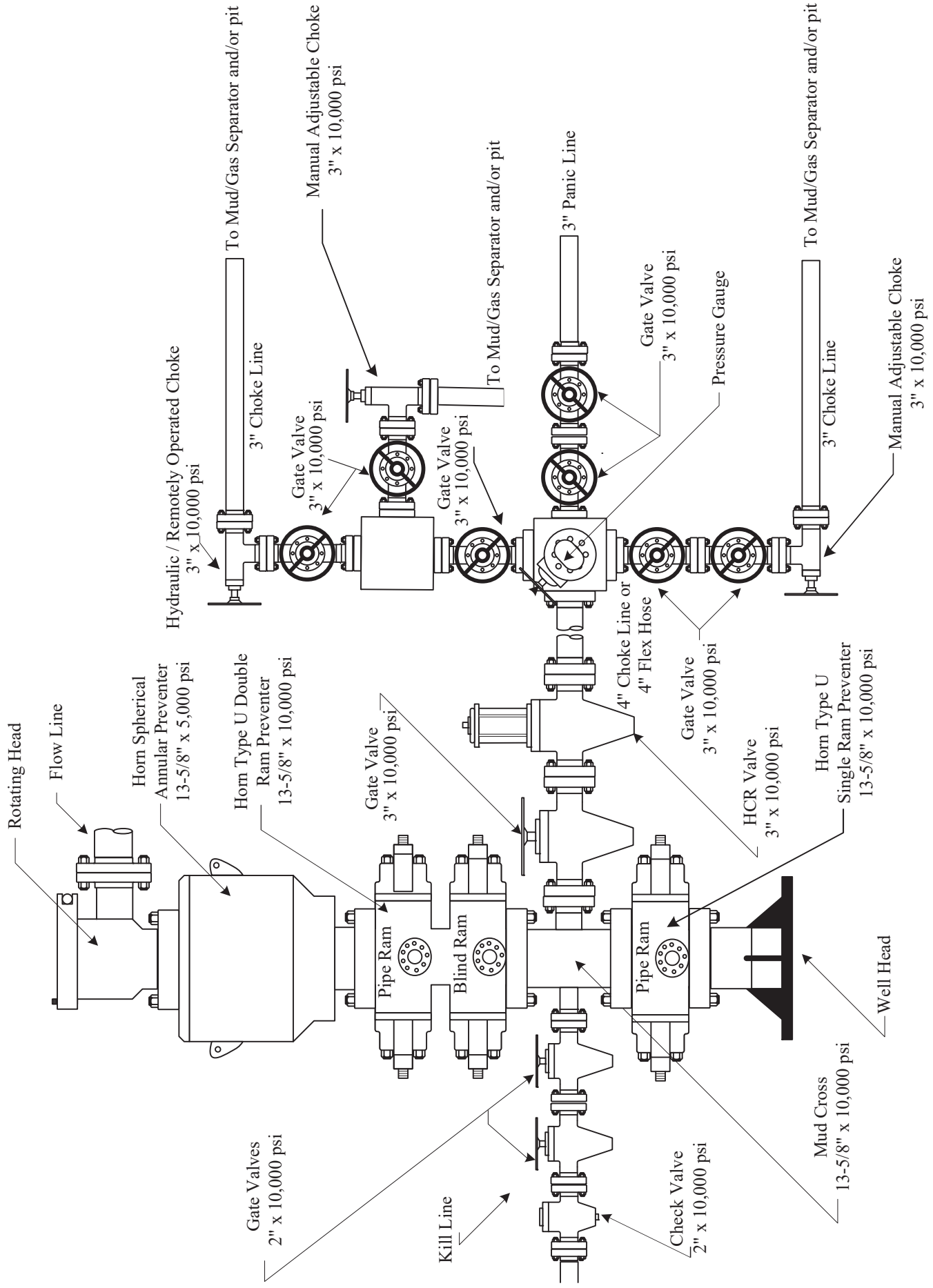
Variance Request #3: Omit the DV Tool from the Intermediate Casing

Coterra requests approval to omit the DV tool from the intermediate casing string. In lieu of a DV tool, Coterra will retain the option to pump down the intermediate annulus through casing valves with the appropriate cement slurry in the event returns to surface are not achieved on the primary job.

Variance Request #4: Utilize Co-Flex Choke Line

Coterra requests approval to utilize a co-flex choke line between the BOP and choke manifold. Certification for the proposed co-flex choke line is attached. The choke line is not required by the manufacturer to be anchored. In the event the specific co-flex choke line is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

COTERRA


Rotating Head
Flow Line
Horn Spherical
Annular Preventer
13-5/8" x 5,000 psi
Horn Type U Double
Ram Preventer
13-5/8" x 10,000 psi
Gate Valve
3" x 10,000 psi
Pipe Ram
Blind Ram
Pipe Ram
Horn Type U
Single Ram Preventer
13-5/8" x 10,000 psi
HCR Valve
3" x 10,000 psi
4" Choke Line or
4" Flex Hose
Gate Valve
3" x 10,000 psi
Pressure Gauge
Gate Valve
3" x 10,000 psi
3" Panic Line
Manual Adjustable Choke
3" x 10,000 psi
To Mud/Gas Separator and/or pit
Gate Valve
3" x 10,000 psi
To Mud/Gas Separator and/or pit
Hydraulic / Remotely Operated Choke
3" x 10,000 psi
3" Choke Line
To Mud/Gas Separator and/or pit
3" Choke Line
Manual Adjustable Choke
3" x 10,000 psi
Well Head
Mud Cross
13-5/8" x 10,000 psi
Gate Valves
2" x 10,000 psi
Kill Line
Check Valve
2" x 10,000 psi

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

Customer Name			
Product Name	Choke And Kill Hose		
Product Specification	3″×10000psi×35ft（10.67m）	Quantity	1PCS
Serial Number	VTC-7660257	FSL	FSL3
customer number	PO890145-001	Standard	API Spec 16C 3rd edition
Temperature Range	-29℃～+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3rd edition
Size and Lengths	In accordance with API Spec 16C 3rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3rd edition
End Connections: 4-1/16″×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21st edition
End Connections: 4-1/16″×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3rd edition
product Marking	In accordance with API Spec 16C 3rd edition
Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition
Remarks	16C-0403

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

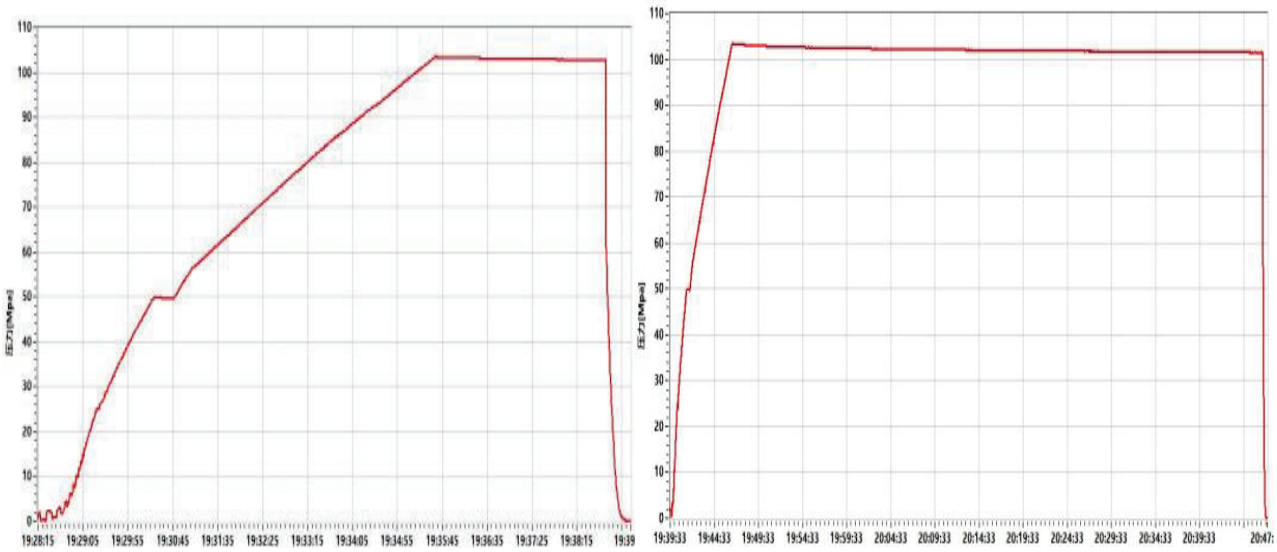
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd edition
Product Specification	3″×10000psi×35ft（10.67m）	Serial Number	VTC-7660257
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
customer number	PO890145-001	Inspection Date	2024.08.30
Rate of length change			
Standard requirements	At working pressure ,the rate of length change should not more than ±2%		
Testing result	10000psi (69.0MPa) ,Rate of length change 0.6%		
Hydrostatic testing			
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leakage.		
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage		

Graph of pressure testing：



Conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition 16C-0403				
Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

Product Specification：3″×10000psi×35ft（10.67m）

Serial Number：VTC-7660257

customer number：PO890145-001

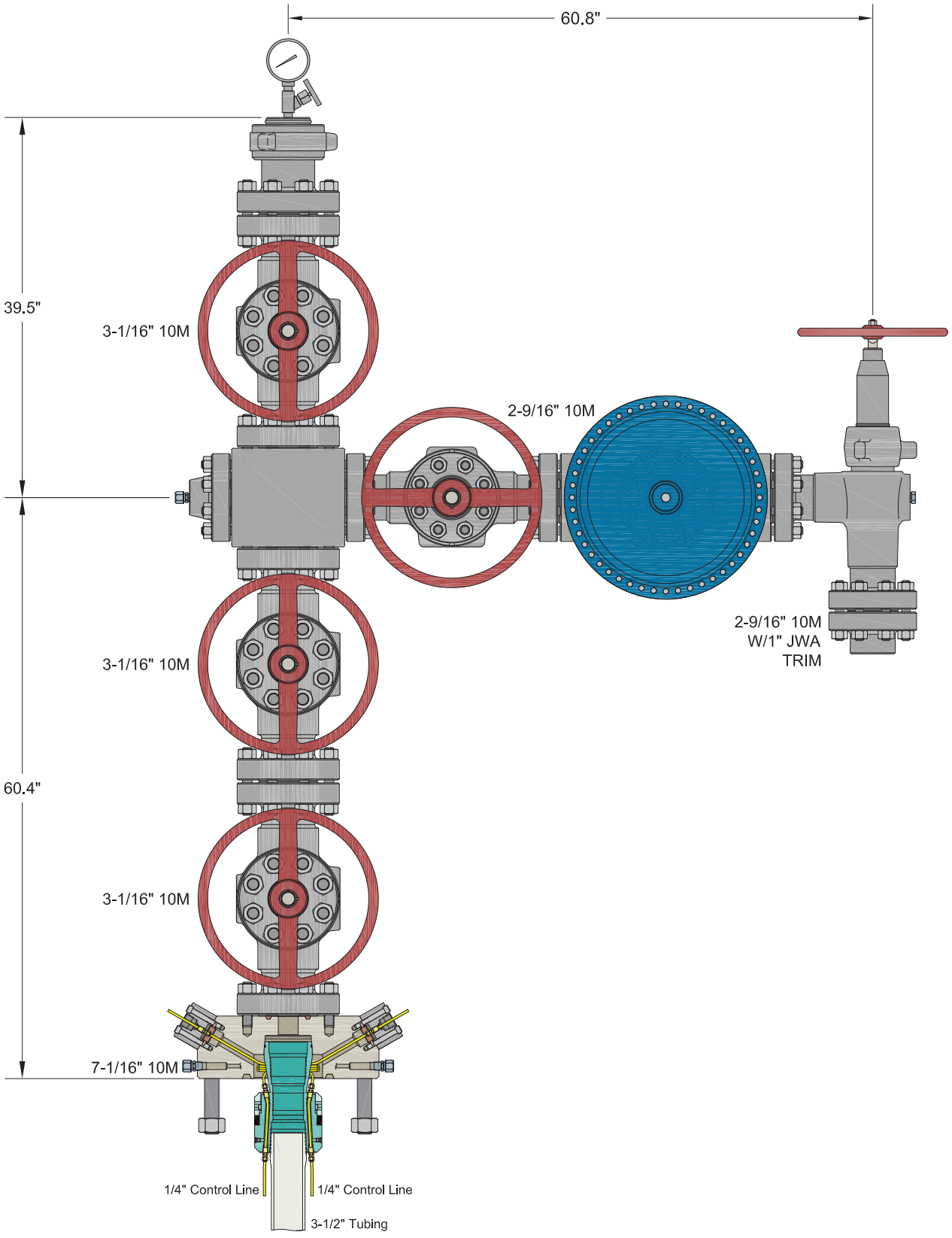
End Connections: 4-1/16″×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Sep,2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Sep 3, 2024. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

QC Manager： Jane C Date:Sep 3, 2024

16C-0403

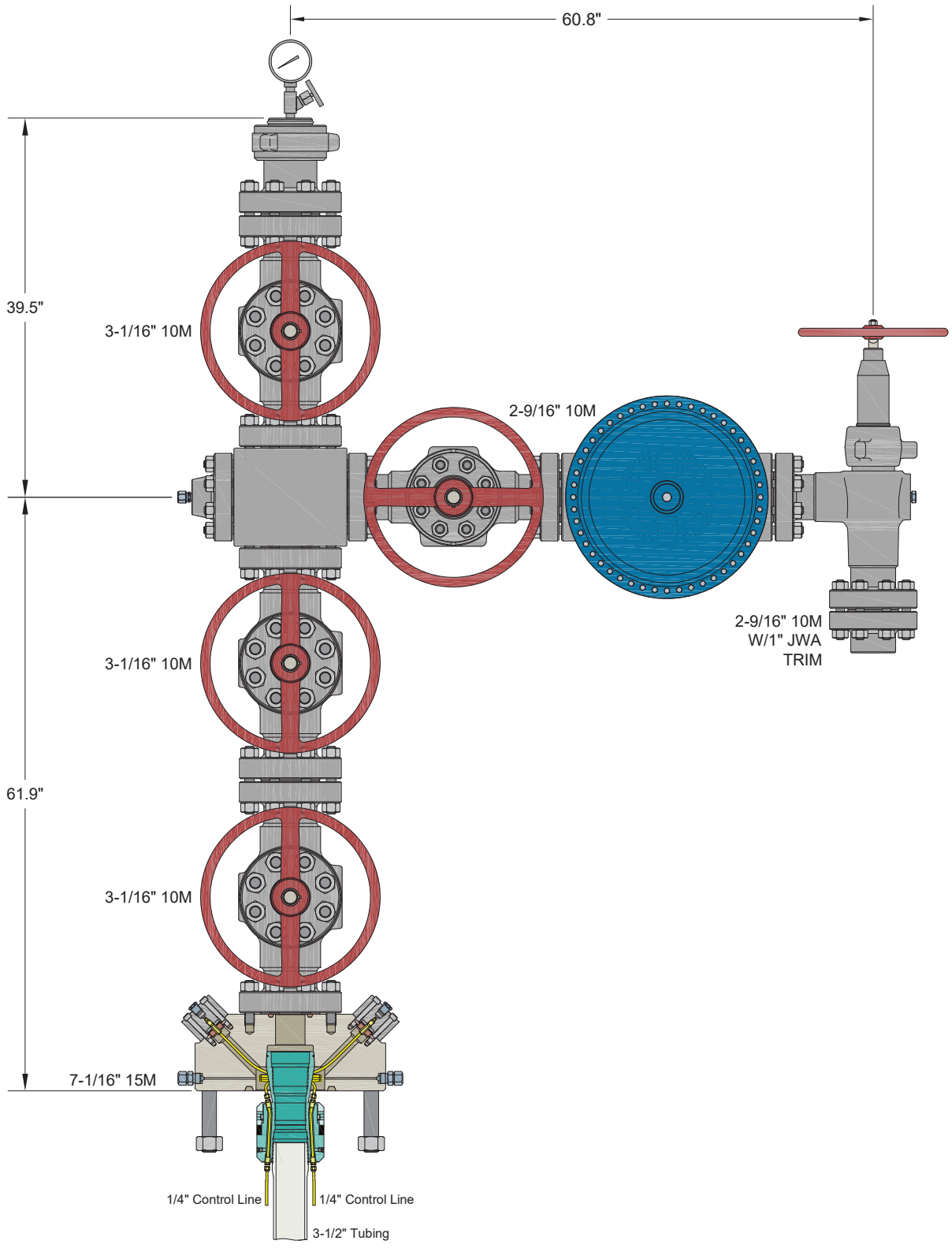
LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	CIMAREX HOBBS, NM		
7-1/16" 10M x 3-1/16" x 2-9/16" 10M Production Tree Assembly With 7-1/16" 10M x 3-1/16" 10M T40-CCL Tubing Head Adapter And 7-1/16" 3-1/2" T40-CCL Tubing Hanger	DRAWN	VJK	05SEP23
	APPRV		
	DRAWING NO.	HBE0001018	



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ALL DIMENSIONS APPROXIMAT

CACTUS WELLHEAD LLC	CIMAREX HOBBS, NM
7-1/16" 15M x 3-1/16" x 2-9/16" 10M Production Tree Assembly With 7-1/16" 15M x 3-1/16" 10M T40-CCL Tubing Head Adapter And 7-1/16" 3-1/2" T40-CCL Tubing Hanger	DRAWN VJK 13DEC23 APPRV DRAWING NO. HBE0001018

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

Bill To: 7050

CIMAREX
ATTN: DAVID SHAW
202 S CHEYENNE AVENUE SUITE 1000
TULSA OK 74103
US

Ship To: 1016

2023 PRICING REVIEW
202 S Cheyenne Ave Ste 1000
Tulsa OK 74103-3001
US

	Quantity	Price	Ext Price

CIMAREX

HOBBS, NM

PRODUCTION TREE ASSEMBLY
7-1/16" 10M X 3-1/16" 10M X 2-9/16" 10M
OPTIONAL 15M ADAPTER

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - $49,338.02

CACTUS CONTACT:
RILEY STAFFORD / MIKE SPINKS
OFFICE: 405.708.7217 (RILEY) / 713.396.5762 (MIKE)
MOBILE: 405.445.2222 (RILEY) / 832.691.7724 (MIKE)
EMAIL: riley.stafford@cactuswellhead.com / mike.spinks@cactuswellhead.com

DUE TO VOLATILITY IN THE STEEL MARKET, PRICING FOR ITEMS MADE FROM NICKEL ALLOYS (EX. 410SS, 17-4PHSS, INCONEL, ETC.) WILL BE VALID FOR TWO WEEKS. CW WILL REVIEW AND ADJUST, IF NECESSARY, AT ORDER PLACEMENT.

PREMIUM THREADED CASING HANGERS/RUNNING TOOLS & CUSTOMER SPECIFIC EQUIPMENT ARE NON-CANCELABLE AND MAY REQUIRE A PURCHASE ORDER (PO) PRIOR TO MANUFACTURING.

SUPPLY CHAIN PRICING IS BASED UPON A 135 DAY DELIVERY ARO. EXPEDITED PRICING CAN BE PROVIDED UPON REQUEST. PRICES ARE F.O.B. CACTUS BOSSIER CITY, LA. THE FOLLOWING QUOTATION DOES NOT INCLUDE APPLICABLE MILEAGE AND SERVICE CHARGES THAT MAY BE CHARGED AT TIME OF INVOICING.

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

		Quantity	Price	Ext Price
	PRODUCTION TREE ASSEMBLY			
1	124314P2	1.00	4,830.00	4,830.00
	ADPT,TBGHD,CW,T40-CCL,7-1/16 10M STD X 3-1/16 10M STD,W/TWO #14 DHCV W/1/4 LP INLETS,10000 PSI MAX WP,TEMP PU,MATL EE,PSL2,PR2			
2	120242MV	1.00	4,343.00	4,343.00
	VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)			
3	120242MV	1.00	4,343.00	4,343.00
	VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)			
4	128365	1.00	2,650.00	2,650.00
	CRSS,STD,AOZE,3-1/16 10M X 2-9/16 10M,6A-LU-EE-3			
5	120242MV	1.00	4,343.00	4,343.00
	VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)			
6	142800	1.00	1,270.00	1,270.00
	TREECAP,NEWAY,BHTA,B15A,3-1/16 10M X 3-1/2 EU ILT,W/1/2 NPT & 3.06 MIN BORE,MONOGRAMMED,TEMP PU,MATL EE,PSL2			
7	BX154	5.00	10.44	52.20
	RING GASKET,BX154,3-1/16 10/15/20M			
8	780077-20E1	16.00	19.83	317.28
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,1-8UNC X 7,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING			
9	132879	1.00	495.00	495.00
	FLG,BLIND,AOZE,3-1/16 10M X 1/2 NPT,W/HUB,TEMP LU,MATL EE,PSL3			
10	100048	1.00	59.74	59.74
	FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING			
11	115900MV	1.00	3,285.00	3,285.00
	VLV,CW,SB100,2-9/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL2 PR2) QPQ TRIM, API 6A PR2 ANNEX F (BORE VENT HOLE)			
12	128567	1.00	8,292.00	8,292.00
	VLV/ACT,OMNI,FS-R,2-9/16 10M FE EE HF C/W MODEL DX-18 DIAPHRAGM PNEUMATIC ACTUATOR, FORGED BODY, REVERSE ACTING SLAB GATE, FLOATING SEATS & DIRECTIONAL FLOW BODY BUSHING (FLOW FROM RIGHT TO LEFT): MAT'L CLASS EE, HARDFACE TRIM, TEMP PU (-20 TO 250 F), PSL-2, PR-2; ACTUATOR: MATERIAL CLASS BB, TEMP P (-20F TO 180F) PR-2 (FC TYPE) W/MANUAL OVERRIDE,ACTUATOR REQUIRES 112 PSI TO OPEN AT FULL 10,000 PSI			
13	130652	1.00	7,500.00	7,500.00
	CHOKE,ADJ,HOE,H2,2-9/16 10M FE X FE ALLOY BDY,3" NOMINAL,W/ 2" SSTC TRIM,H2S SERVICE,API MONOGRAMMED,PSL-2 PR-2 TEMP-PU MATL-EE-1.5			
14	120734	1.00	399.00	399.00
	FLG,COMP,AOZE,2-9/16 10M X 2-7/8 EU,5000 PSI MAX WP,TEMP LU,PSL3,PR1			

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

			Quantity	Price	Ext Price
15	BX153		5.00	11.54	57.70
	RING GASKET,BX153,2-9/16 10/15/20M				
16	780067-20E1		24.00	14.70	352.80
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,7/8-9UNC X 6-1/2,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING				
17	135166		1.00	4,490.00	4,490.00
	TBGHGR,CW,T40-CCL,7-1/16 X 3-1/2 EU API MOD BOX BTM X 3-1/2 EU BOX TOP,W/3 HBPV THD,W/ TWO 1/4 CCL & DOVETAIL SEAL,CF 124316P2,10000 PSI MAX WP,17-4PH SS,TEMP PU,MATL FF-0,5,PSL2,PR2				
18	BX156		1.00	62.48	62.48
	RING GASKET,BX156,7-1/16 10/15/20M				
19	NVS		1.00	61.16	61.16
	NEEDLE VALVE,MFS,1/2 NPT MXF,10M PSI WP,CARBON STEEL BODY, 304/316SS STEM, TFE PACKING (NON-NACE)				
20	PG10M		1.00	58.24	58.24
	PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT				
21	PRO	Prorata Freight	0.75	2,768.56	2,076.42
					49,338.02

OPTIONAL 15M ADAPTER

22	124999P2		0.00	7,423.00	0.00
	ADPT,TBGHD,CW,T40-CCL,7-1/16 15M STD X 3-1/16 10M STD,W/TWO #14 DHCV W/1/4 NPT INLET,10000 PSI MAX WP,TEMP PU,MAT'L EE,PSL2,PR2				
					0.00

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For Acceptance of this Quotation
Please Contact Ph: 713-626-8800
sales@cactuswellhead.com

Matl:	47,261.60
Labor:	0.00
Misc:	2,076.42
Sales Tax:	0.00
Total:	49,338.02

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

1. **ACCEPTANCE**: Acceptance of Cactus Wellhead, LLC (herein: Company) Purchase Terms and Conditions (herein: CACTUS Purchase Terms) shall be deemed effective upon shipment of the Products and/or rendering of Services which are the subject of an order by Customer (defined as the party purchasing CACTUS Products and or Services referred on the invoice). Any proposal made by Customer for additional or different terms and conditions or any attempt by Customer to vary in any degree any of the terms and conditions of CACTUS Purchase Terms is hereby rejected.

2. **PRICING**. Each Product and Service shall be invoiced at (and Customer shall pay) the respective price shown on the reverse side hereof, or if no price is shown on the reverse side hereof, at the price shown in the current price list of Company. In addition, Customer shall pay any and all additional charges for mileage, transportation, freight, packing and other related charges, as well as any federal, state or local tax, excise, or charge applicable on the sale, transportation, or use of Products and Services, unless otherwise specified.

3. **TERMS OF PAYMENT**. Customer agrees to pay Company any and all payments due on or before thirty (30) days from invoice date at the designated address of Company. Amounts unpaid after such thirty (30) day period shall bear interest at the lesser of (i) one and one-half percent (1½%) per month or (ii) the maximum rate allowed by law. Customer shall also pay any and all of Company's attorney's fees and court costs if any amounts hereunder are collected by an attorney or through legal proceedings. Company reserves the right, among other remedies, either to terminate this agreement or to suspend further deliveries upon failure of Customer to make any payment as provided herein.

4. **LIMITED WARRANTY**. COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE MERCHANTABILITY, FITNESS FOR PURPOSE, DESCRIPTION, QUALITY, PRODUCTIVENESS, ACCURACY OR ANY OTHER MATTER WITH RESPECT TO PRODUCTS OR SERVICES, ALL SUCH WARRANTIES BEING HEREBY SPECIFICALLY AND EXPRESSLY DISCLAIMED BY COMPANY. COMPANY MAY OFFER TECHNICAL ADVICE OR ASSISTANCE WITH REGARD TO THE PRODUCTS AND SERVICES BASED ON LABORATORY AND/OR FIELD EXPERIENCE AND CUSTOMER UNDERSTANDS AND AGREES THAT SUCH ADVICE REPRESENTS ONLY GOOD FAITH OPINIONS AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE. THE SOLE AND EXPRESS WARRANTY PROVIDED BY COMPANY IS TO WARRANT THAT THE PRODUCTS SOLD AS LISTED ON THE REVERSE SIDE HEREOF COMPLY WITH COMPANY'S SOLE SPECIFICATION AT THE DATE AND TIME OF MANUFACTURE. COMPANY MAKES NO WARRANTY THAT SUCH PRODUCTS SHALL MEET SUCH SPECIFICATION AT ANY TIME AFTER SHIPMENT OF PRODUCTS. USE OF SUCH PRODUCTS IS SPECIFICALLY NOT WARRANTED.

5. **REMEDY**. The exclusive remedy for this warranty for Products shall be limited to, in Company's sole discretion and judgment, the replacement of defective part(s), F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer), or repair of defective part(s). . The exclusive remedy for this warranty for Services shall be limited to the repeat of Services performed F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer). Any such repeat of Services or replacement or repair of Products shall not include any materials not sold by Company hereunder, and specifically excludes any obligation by Company related to other property of the Customer or any property of third parties. Provided, however, Company may in its sole discretion, decide to instead give Customer credit memorandum for the amounts already paid by Customer to Company for such Product or Service. IN ANY EVENT AND NOTWITHSTANDING THE LANGUAGE TO THE CONTRARY HEREIN, CUSTOMER ACKNOWLEDGES THAT ANY CLAIM IT MAY HAVE ARISING OUT OF OR IN CONNECTION WITH ANY ORIGINAL PRODUCTS AND SERVICES, ANY REPLACEMENT PRODUCTS OR REPEAT OF SERVICES AND THESE CACTUS PURCHASE TERMS SHALL BE LIMITED TO AND NOT EXCEED THE AMOUNT CUSTOMER HAS ACTUALLY PAID TO COMPANY FOR SUCH PRODUCTS AND/OR SERVICES PURSUANT HERETO. If Customer fails to make any such claim within thirty (30) days after completion of Service or delivery of Products, Customer hereby waives (to the extent permitted by applicable law) any and all claims it may or does have with respect to such Products and Services. Unless Customer is an authorized reseller of Company, Company's liability in connection with Products and Services shall extend only to Customer. CUSTOMER HEREBY INDEMNIFIES AND HOLDS COMPANY (AND ITS AGENTS, REPRESENTATIVES, OFFICERS DIRECTORS AND EMPLOYEES) HARMLESS FOR ANY LOSS, EXPENSE OR DAMAGE (WHETHER OF CUSTOMER OR OF ANY THIRD PARTY) ARISING FROM OR IN CONNECTION WITH PRODUCTS AND SERVICES, INCLUDING WITHOUT LIMITATION ANY FAILURE OF SUCH PRODUCTS AND SERVICES TO CONFORM TO CUSTOMER'S ORDER OR SPECIFICATION OR ANY OTHER STANDARD, OR ANY NEGLIGENCE OR BREACH OF WARRANTY BY COMPANY WITH RESPECT TO ANYTHING DONE OR FAILED TO HAVE BEEN DONE BY COMPANY, IF AND TO THE EXTENT THAT SUCH LOSS, EXPENSE OR DAMAGE EXCEEDS THE AMOUNT CUSTOMER HAS ACTUALLY PAID COMPANY PURSUANT HERETO FOR SUCH PRODUCTS OR SERVICES.

6. **INSPECTION**. The results of any inspection or testing reported by the Company to Customer represents only good faith opinions and are not to be construed as warranties or guarantees of the quality, classification, merchantability, fitness for purpose, condition, or liability of any equipment or material that has been inspected or tested by the Company.

7. **INSURANCE**. Each party agrees to maintain comprehensive general liability insurance in the amount of $1,000,000 each occurrence, $2,000,000 general aggregate, and Workers Compensation insurance per statutory requirements providing coverage for the indemnity obligations in this agreement. The Company (and such of its affiliates as it shall designate) including their officers, directors, members, shareholders, partners, joint ventures, employees, agents and representatives shall be named as additional insureds under the policies of Customer on a primary basis to the extent of its indemnification obligations set forth in these CACTUS Purchase Terms, and the policies shall also provide a waiver of subrogation rights in favor of the Company (and such of its affiliates as it shall designate) and their officers, directors, members, shareholders, employees, agents and representatives. The provisions of this Section 7 shall apply and the obligation to maintain insurance of each party in the coverages and amounts set forth herein shall remain in force regardless and independent of the validity or enforceability of the indemnity provisions of Section 8, below; the obligation to obtain insurance is a separate and independent obligation. If the insurance required herein is more or less than allowed by prevailing law, the indemnity obligations in Section 8 below shall be effective only to the maximum extent permitted under applicable law.

8. **INDEMNIFICATION**. The following indemnifications and releases of liability will apply to any Products or Services provided under this contract. COMPANY AND CUSTOMER EXPRESSLY AGREE THAT, TO THE EXTENT REQUIRED BY APPLICABLE LAW TO BE EFFECTIVE, THE INDEMNITIES AND DISCLAIMERS OF WARRANTIES CONTAINED HEREIN ARE "CONSPICUOUS."

A. **Customer Indemnity Obligations**. Customer hereby releases Company from any liability for, and shall protect, defend, indemnify, and hold harmless Company, its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, insurers, and consultants (specifically excluding any member of Customer Group) of all of the foregoing, and its and their respective successors, heirs and assigns ("Company Group") from and against all costs (including the payment of reasonable attorneys' fees), losses, liabilities, demands, causes of action, damages, or claims of every type and character ("Claims"), arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of Customer its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, customers, insurers, invitees and consultants of all of the foregoing, and its and their respective successors, heirs and assigns ("Customer Group"), or (ii) loss of or damage to any property of any member of Customer Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.

B. **Company Indemnity Obligations**. Company hereby releases Customer from any liability for, and shall protect, defend, indemnify, and hold harmless Customer from and against all Claims arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of any member of Company Group, or (ii) loss of or damage to any property of any member of Company Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF CUSTOMER GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.

C. **Third Party Claims**. Notwithstanding the foregoing, to the extent of its negligence, Company and Customer shall each indemnify, defend and hold harmless from and against all Claims, of every type and character, which are asserted by third parties for bodily injury, death or loss or destruction of property or interests in property in any manner caused by, directly or indirectly resulting from, incident to, connected with or arising out of the work to be performed, Services to be rendered or Products or materials furnished to Customer. When personal injury, death or loss of or damage to property is the result of joint or concurrent negligence of Customer and Company, the indemnitor's duty of indemnification shall be in proportion to its allocable share of such negligence.

D. **Pollution**. Company agrees that it shall be totally responsible for, and shall protect, defend and indemnify, Customer for all losses, damages, claims, demands, costs, charges, and other expenses, including attorneys' fees, for any and all waste and/or hazardous substances which are in Company Group's exclusive possession and control and directly associated with Company Group's equipment and facilities, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF CUSTOMER GROUP. Customer shall assume all responsibility for, including control and removal of, and shall protect, defend and indemnify Company Group from and against all Claims arising directly or indirectly from all other pollution or contamination which may occur during the conduct of operations hereunder, including, but not limited to, that which may result from fire, blowout, cratering, seepage or any other uncontrolled flow of oil, gas, water or other substance, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF COMPANY GROUP.

E. **Wild Well**. Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group for any damages, expenses, losses, fines, penalties, costs, expert fees and attorneys' fees arising out of a fire, blow out, cratering, seepage or wild well, including regaining control thereof, debris removal and property restoration and remediation. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.

F. **Underground Damage**. Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group from and against any and all claims, liability and expenses resulting from operations related to the work under this agreement on account of injury to, destruction of, or loss or impairment of any property right in or to oil, gas or other mineral substance or water, if at the time of the act or omission causing such injury, destruction, loss or impairment said substance and not been reduced to physical possession above the surface of the earth, and for any loss or damage to any formation, strata, or reservoir beneath the surface of the earth. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.

G. The foregoing indemnities set forth in these CACTUS Purchase Terms are intended to be enforceable against the parties hereto in accordance with the express terms and scope hereof notwithstanding Texas' Express Negligence Rule or any similar directive that would prohibit or otherwise limit indemnities because of the negligence (whether sole, concurrent, active or passive, ordinary or gross) or other fault or strict liability of Company or Customer.

H. If a claim is asserted against one of the parties to this agreement which may give rise to a claim for indemnity against the other party hereto, the party against whom the claim is first asserted must notify the potential indemnitor in writing and give the potential indemnitor the right to defend or assist in the defense of the claim.

9. **RISK OF LOSS**.

A. Title and risk of loss shall pass to Customer upon delivery as specified in Article 11. Customer's receipt of any material delivered hereunder shall be an unqualified acceptance of, and a waiver by Customer of any and all claims with respect to, such material unless Customer gives Company written notice of claim within thirty (30) days after such receipt. Notwithstanding the foregoing, installation or use of materials or equipment shall unequivocally constitute irrevocable acceptance of said materials. Customer assumes all risk and liability for the results obtained by the use of any material or Products delivered hereunder in work performed by on behalf of Customer or in combination with other or substances. No claim of any kind, whether as to material delivered or for non-delivery of material, and whether or not based on negligence, shall be greater in amount than the purchase price of the

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

material in respect of which such claim is made.

B. For Services, Company shall not be liable for loss or deterioration of any equipment and material of Customer under Company's control or stored on Company's premises after Company has completed its work if such loss or deterioration results from atmospheric condition, Act of God or other occurrence not within the reasonable control of Company.

10. **TERMINATION**. Company reserves the right to terminate the order at issue, or any part hereof, solely for its convenience at any time without cause with notice to Customer. Company shall have the right to cancel any unfilled order without notice to Customer in the event that Customer becomes insolvent, adjudicated bankrupt, petitions for or consents to any relief under any bankruptcy reorganization statute, violates a term of these CACTUS Purchase Terms, or is unable to meet its financial obligations in the normal course of business. In the event of such termination, Company shall immediately stop all work hereunder. Prior to delivery, Customer may terminate this order without cause upon thirty (30) day notice in writing to Company. In the event of such termination, Company at its sole option shall cease work up to thirty (30) days after such notice. Upon the cessation of work, Customer agrees to pay Company a reasonable termination charge consisting of a percentage of the Invoice price, such percentage to reflect the value of the Products, Services or work in progress completed upon the cessation of work. Customer shall also pay promptly to Company any costs incurred due to paying and settling claims of Company's vendors or subcontractors arising out of the termination of the order by Customer.

11. **DELIVERY**. Unless different terms are provided on the face of this order, all items are sold FOB Company's manufacturing facility in Bossier City, LA., and Customer shall bear the cost of transportation to any other named destination. Upon notification of Company of delivery, Customer shall become liable and shall bear all risk of loss associated with the Products at issues regardless of whether the Products are at a location controlled by Company and whether or not caused by the negligence of Company. In the case of Customer pick-up, the truck furnished by Customer is the destination and Company's obligations regarding shipments are fulfilled when the Products are loaded on the truck. Items to be shipped to any other destination outside of the United States are sold FOB port of shipment (Customer will deliver and bear the cost of transportation to the named port and will bear the cost of transportation thereafter to the final destination). The means of shipment and carrier to the point at which Company's liability for transportation costs ceases shall be chosen by Company. Excess packing, marking, shipping, and transportation charges resulting from compliance with Customer's request shall be for Customer's account. Unless otherwise agreed in writing, delivery time is not of the essence.

12. **RETURNS/REFUND**. Within ninety (90) days of delivery, Customer has the option to return any non-defective Products (any Products found to be defective will be subject to the warranty and remedies expressed in paragraphs four (4) and five (5) above). Customer shall bear all costs of shipment and/or transportation for such return and risk of loss for the returned Products shall remain with Customer until re-delivered to Company's Yard. Customer shall receive a full refund for any returns, less a twenty percent (20%) restocking fee. Company at all times reserves the right to designate certain Products as non-refundable in Company's Sales Quote or Sales Order. In addition, any made-to-order , special order, and/or Product manufactured to Customer specifications are NOT returnable.

13. **DELAYS**. If a specific shipping date is either not given or is estimated only, and is not promised on the face of this order or in a separate writing signed by Company, Company will not be responsible for delays in filling this order nor liable for any loss or damages resulting from such delays. If a specific shipping date is promised, Company will not be liable for delays resulting from causes beyond Company's control, including without limitation accidents to machinery, fire, flood, act of God or other casualty, vendor delays, labor disputes, labor shortages, lack of transportation facilities, priorities required by, requested by, or granted for the benefit of any governmental agency, or restrictions imposed by law or governmental regulation.

14. **LIMITATION OF DAMAGES**. Notwithstanding any other provision contained herein, Company shall not be liable to Customer Group or any third party for consequential (whether direct or indirect damages), indirect, incidental, special or punitive damages, howsoever arising, including, but not limited to loss of profits (whether direct or indirect damages), revenues, production or business opportunities, WHETHER OR NOT SUCH LOSSES ARE THE RESULT IN WHOLE OR IN PART FROM THE NEGLIGENCE (WHETHER SOLE, JOINT, CONCURRENT OR COMPARATIVE, ACTIVE OR PASSIVE, ORDINARY OR GROSS) OF COMPANY GROUP, OR ANY DEFECT IN THE PREMISES, PRE-EXISTING CONDITIONS, PATENT OR LATENT, BREACH OF STATUTORY DUTY, STRICT LIABILITY OR ANY OTHER THEORY OF LEGAL LIABILITY OF COMPANY GROUP (EXCLUDING ONLY LOSSES CAUSED BY THE WILLFUL MISCONDUCT OF COMPANY GROUP).

15. **SECURITY INTEREST**. Customer grants Company, and Company reserves, a security interest, covering all Customer's obligations under these terms (including any liability for breach of Customer's obligations), and applying to all of Customer's right, title, and interest in the Leased Equipment, together with all accessions thereto and any proceeds that may arise in connection with the sale or disposition thereof. Customer shall cooperate with Company in the filing of Financing Statements to perfect such security interest. Furthermore, Customer authorizes Company to execute and file Financing Statements without Customer's signature in any jurisdiction in which such procedure is authorized. Customer warrants, covenants and agrees that it will not, without prior written consent of Company, sell, contract to sell, lease, encumber, or dispose of the Leased Equipment or any interest in it until all obligations secured by this security interest have been fully satisfied.

16. **PATENT AND INTELLECTUAL PROPERTY**. The sale of any Products hereunder does not convey any intellectual property license by implication, estoppel or otherwise regarding the Products. Company retains the copyright in all documents, catalogs and plans supplied to Customer pursuant to or ancillary to the contract. Unless otherwise agreed in writing, Customer shall obtain no intellectual property interest in any Company Product.

17. **TAXES**. Unless otherwise specifically provided for herein, Customer shall be liable for all federal, state, or local taxes or import duties assessed by any governmental entity of any jurisdiction in connection with the Products or Services furnished hereunder.

18. **DECEPTIVE TRADE PRACTICES**. Customer acknowledges the application of Section 17.45(4) of the Texas Deceptive Trade Practices Act (Texas Business Commission Code §17.41 et. seq.) (the "Act") to any transaction contemplated hereby and represents that it is not a "consumer" for the purposes of the Act.

19. **NO WAIVER**. Failure to enforce any or all of the provisions in these CACTUS Purchase Terms in any particular instance shall not constitute or be deemed to constitute a waiver of or preclude subsequent enforcement of the same provision or any other provision of these CACTUS Purchase Terms. Should any provision of these CACTUS Purchase Terms be declared invalid or unenforceable all other provisions of these CACTUS Purchase Terms shall remain in full force and effect.

20. **CHOICE OF LAW**. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF THE STATE OF TEXAS IN HARRIS COUNTY, TEXAS AND THE FEDERAL COURTS IN AND FOR THE SOUTHERN DISTRICT OF TEXAS SITTING IN HOUSTON, TEXAS IN CONNECTION WITH ANY DISPUTE ARISING UNDER THIS AGREEMENT OR ANY DOCUMENT OR INSTRUMENT ENTERED INTO IN CONNECTION HEREWITH.

21. **AUTHORITY**. Customer warrants and represents that the individual receiving this order at issue on behalf of Customer has the authority to enter into these CACTUS Purchase Terms on behalf of Customer, and that upon receipt these CACTUS Purchase Terms shall be binding upon Customer.

22. **FORCE MAJEURE**. If Company is unable to carry out its obligations hereunder by reason of force majeure, then upon Company's giving of notice and reasonably full particulars of such force majeure in writing to Customer, Company's obligations that are affected by force majeure shall be suspended during the continuance of the force majeure and Company shall not be liable to Customer for any damages incurred by the Customer as a result thereof.

23. **CONFIDENTIALITY**. Customer acknowledges the highly secret and valuable nature of all proprietary inventions, methods, processes, designs, know-how, and trade secrets embodied in the Company's equipment, Products and Services and its components (hereinafter referred to as "Confidential Data"). Accordingly, Customer agrees not to disclose or use any Confidential Data. Customer further agrees to take any and all necessary precautions to prevent disclosure of the Confidential Data associated with the Company's equipment, Products and Services and components thereof to persons other than those employees of Customer for whom such disclosure is necessary for performance of the work hereunder.

24. **COMPLIANCE**. Customer expressly agrees to comply with and abide by, all of the laws of the United States and of the State of Texas, including, but not limited to, OSHA, EPA and all rules and regulations now existing or that may be hereafter promulgated under and in accordance with any such law or laws, and hereby agrees to indemnify and hold Company harmless from any and all claims, demands, or damages incurred by Company arising from Customer's failure to comply with all laws and governmental regulations. The indemnities in this paragraph shall be in addition to any other indemnity obligations between Customer and Company, including any other indemnity obligations contained herein.

Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells. Before skidding the rig, a TA cap is installed on the subject well.

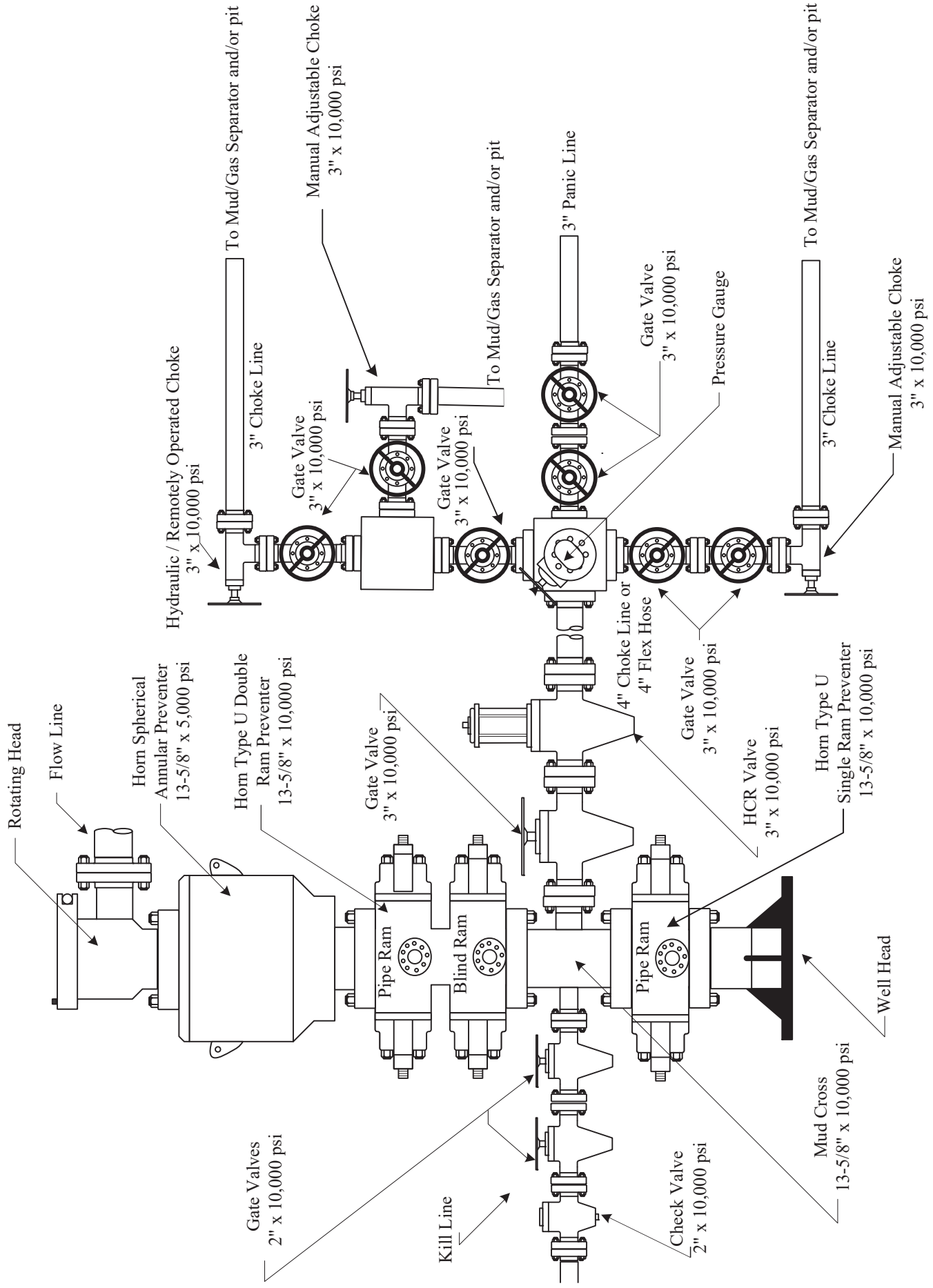
Variance Request #3: Omit the DV Tool from the Intermediate Casing

Coterra requests approval to omit the DV tool from the intermediate casing string. In lieu of a DV tool, Coterra will retain the option to pump down the intermediate annulus through casing valves with the appropriate cement slurry in the event returns to surface are not achieved on the primary job.

Variance Request #4: Utilize Co-Flex Choke Line

Coterra requests approval to utilize a co-flex choke line between the BOP and choke manifold. Certification for the proposed co-flex choke line is attached. The choke line is not required by the manufacturer to be anchored. In the event the specific co-flex choke line is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

COTERRA


Rotating Head
Flow Line
Horn Spherical
Annular Preventer
13-5/8" x 5,000 psi
Horn Type U Double
Ram Preventer
13-5/8" x 10,000 psi
Gate Valve
3" x 10,000 psi
Pipe Ram
Blind Ram
Pipe Ram
Horn Type U
Single Ram Preventer
13-5/8" x 10,000 psi
HCR Valve
3" x 10,000 psi
4" Choke Line or
4" Flex Hose
Gate Valve
3" x 10,000 psi
Pressure Gauge
Gate Valve
3" x 10,000 psi
3" Panic Line
Manual Adjustable Choke
3" x 10,000 psi
To Mud/Gas Separator and/or pit
Gate Valve
3" x 10,000 psi
Gate Valve
3" x 10,000 psi
To Mud/Gas Separator and/or pit
Hydraulic / Remotely Operated Choke
3" x 10,000 psi
3" Choke Line
To Mud/Gas Separator and/or pit
3" Choke Line
Manual Adjustable Choke
3" x 10,000 psi
Well Head
Mud Cross
13-5/8" x 10,000 psi
Check Valve
2" x 10,000 psi
Kill Line
Gate Valves
2" x 10,000 psi

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

Customer Name			
Product Name	Choke And Kill Hose		
Product Specification	3″×10000psi×35ft（10.67m）	Quantity	1PCS
Serial Number	VTC-7660257	FSL	FSL3
customer number	PO890145-001	Standard	API Spec 16C 3rd edition
Temperature Range	-29℃～+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3rd edition
Size and Lengths	In accordance with API Spec 16C 3rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3rd edition
End Connections: 4-1/16″×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21st edition
End Connections: 4-1/16″×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3rd edition
product Marking	In accordance with API Spec 16C 3rd edition
Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition
Remarks	16C-0403

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

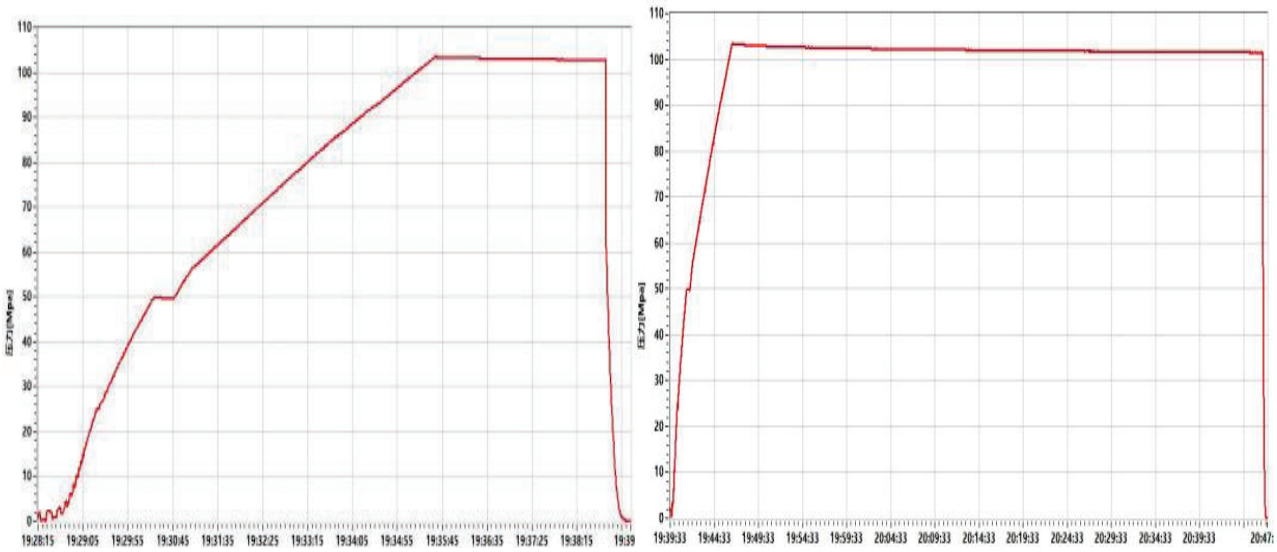
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd edition
Product Specification	3″×10000psi×35ft（10.67m）	Serial Number	VTC-7660257
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
customer number	PO890145-001	Inspection Date	2024.08.30
Rate of length change			
Standard requirements	At working pressure ,the rate of length change should not more than ±2%		
Testing result	10000psi (69.0MPa) ,Rate of length change 0.6%		
Hydrostatic testing			
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leakage.		
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage		

Graph of pressure testing：



Conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition 16C-0403				
Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

Product Specification：3″×10000psi×35ft（10.67m）

Serial Number：VTC-7660257

customer number：PO890145-001

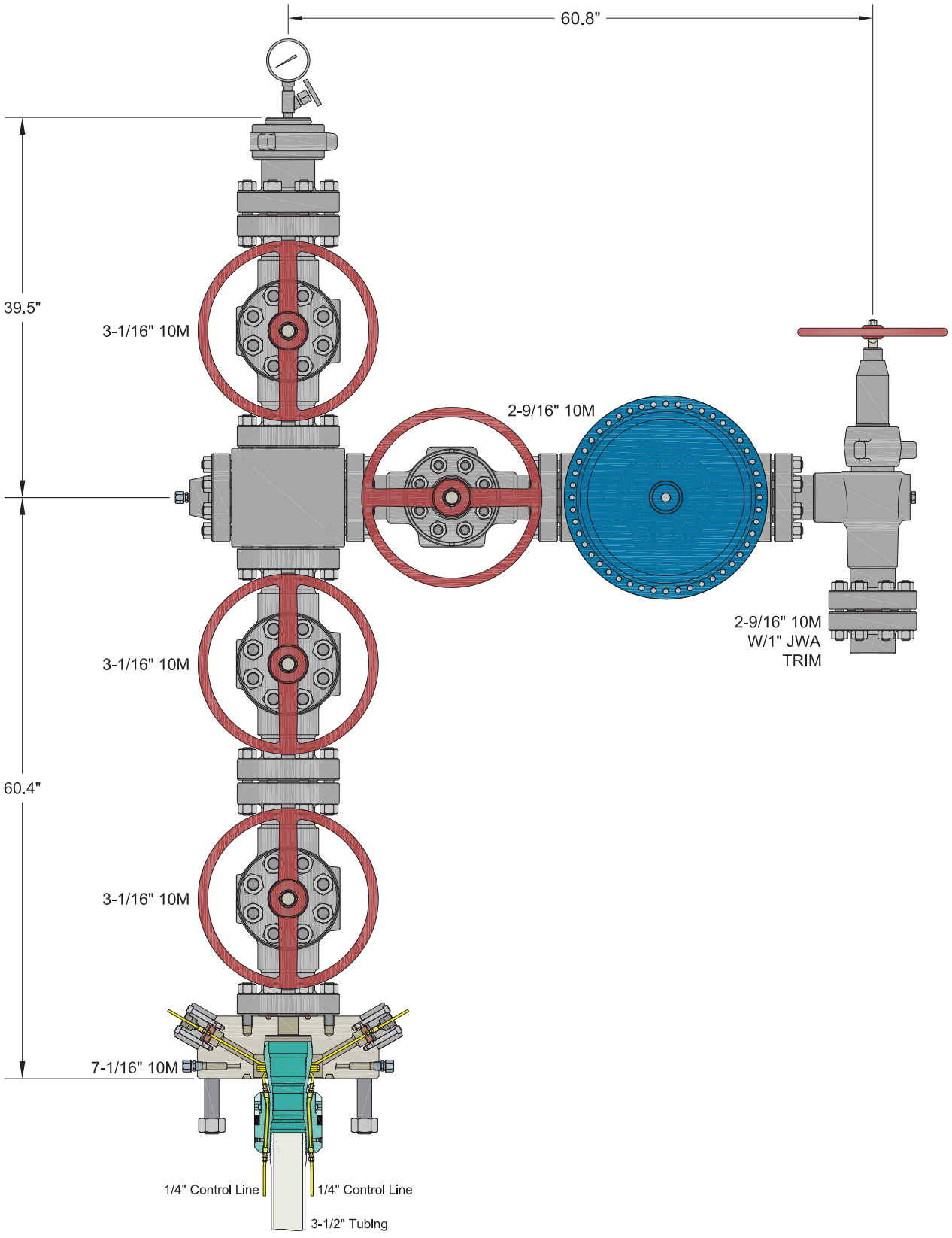
End Connections: 4-1/16″×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Sep,2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Sep 3, 2024. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

QC Manager： Jane C Date:Sep 3, 2024

16C-0403

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE



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ALL DIMENSIONS APPROXIMATE

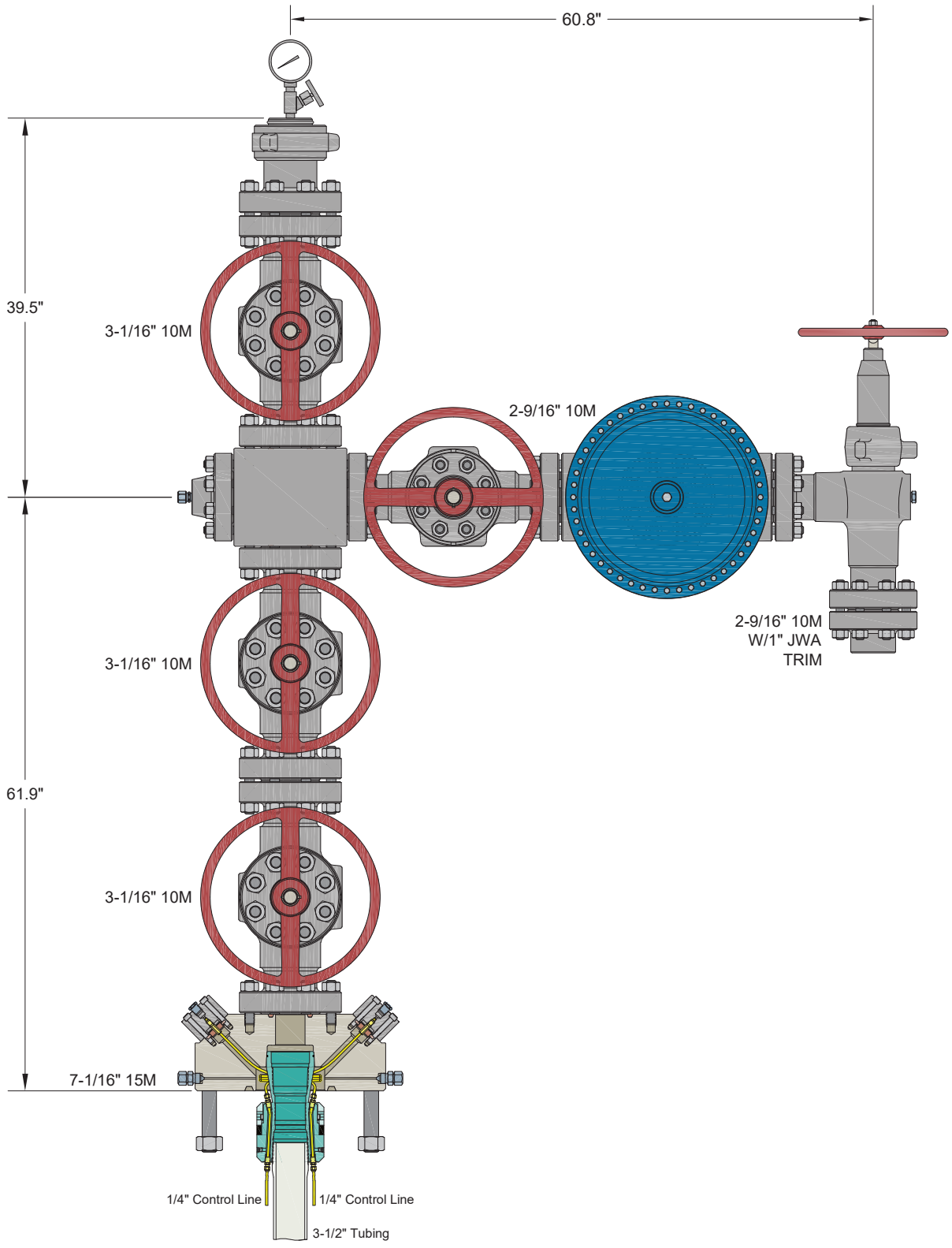
CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

7-1/16" 10M x 3-1/16" x 2-9/16" 10M Production Tree Assembly
With 7-1/16" 10M x 3-1/16" 10M T40-CCL Tubing Head Adapter
And 7-1/16" 3-1/2" T40-CCL Tubing Hanger

DRAWN	VJK	05SEP23
APPRV		

DRAWING NO. HBE0001018



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ALL DIMENSIONS APPROXIMAT

CACTUS WELLHEAD LLC	CIMAREX HOBBS, NM	
7-1/16" 15M x 3-1/16" x 2-9/16" 10M Production Tree Assembly With 7-1/16" 15M x 3-1/16" 10M T40-CCL Tubing Head Adapter And 7-1/16" 3-1/2" T40-CCL Tubing Hanger	DRAWN	VJK 13DEC23
	APPRV	
	DRAWING NO.	HBE0001018

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

Bill To: 7050

CIMAREX
ATTN: DAVID SHAW
202 S CHEYENNE AVENUE SUITE 1000
TULSA OK 74103
US

Ship To: 1016

2023 PRICING REVIEW
202 S Cheyenne Ave Ste 1000
Tulsa OK 74103-3001
US

	Quantity	Price	Ext Price

CIMAREX

HOBBS, NM

PRODUCTION TREE ASSEMBLY
7-1/16" 10M X 3-1/16" 10M X 2-9/16" 10M
OPTIONAL 15M ADAPTER

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - $49,338.02

CACTUS CONTACT:
RILEY STAFFORD / MIKE SPINKS
OFFICE: 405.708.7217 (RILEY) / 713.396.5762 (MIKE)
MOBILE: 405.445.2222 (RILEY) / 832.691.7724 (MIKE)
EMAIL: riley.stafford@cactuswellhead.com / mike.spinks@cactuswellhead.com

DUE TO VOLATILITY IN THE STEEL MARKET, PRICING FOR ITEMS MADE FROM NICKEL ALLOYS (EX. 410SS, 17-4PHSS, INCONEL, ETC.) WILL BE VALID FOR TWO WEEKS. CW WILL REVIEW AND ADJUST, IF NECESSARY, AT ORDER PLACEMENT.

PREMIUM THREADED CASING HANGERS/RUNNING TOOLS & CUSTOMER SPECIFIC EQUIPMENT ARE NON-CANCELABLE AND MAY REQUIRE A PURCHASE ORDER (PO) PRIOR TO MANUFACTURING.

SUPPLY CHAIN PRICING IS BASED UPON A 135 DAY DELIVERY ARO. EXPEDITED PRICING CAN BE PROVIDED UPON REQUEST. PRICES ARE F.O.B. CACTUS BOSSIER CITY, LA. THE FOLLOWING QUOTATION DOES NOT INCLUDE APPLICABLE MILEAGE AND SERVICE CHARGES THAT MAY BE CHARGED AT TIME OF INVOICING.

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		Quantity	Price	Ext Price
	PRODUCTION TREE ASSEMBLY			
1	124314P2	1.00	4,830.00	4,830.00
	ADPT,TBGHD,CW,T40-CCL,7-1/16 10M STD X 3-1/16 10M STD,W/TWO #14 DHCV W/1/4 LP INLETS,10000 PSI MAX WP,TEMP PU,MATL EE,PSL2,PR2			
2	120242MV	1.00	4,343.00	4,343.00
	VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)			
3	120242MV	1.00	4,343.00	4,343.00
	VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)			
4	128365	1.00	2,650.00	2,650.00
	CRSS,STD,AOZE,3-1/16 10M X 2-9/16 10M,6A-LU-EE-3			
5	120242MV	1.00	4,343.00	4,343.00
	VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)			
6	142800	1.00	1,270.00	1,270.00
	TREECAP,NEWAY,BHTA,B15A,3-1/16 10M X 3-1/2 EU ILT,W/1/2 NPT & 3.06 MIN BORE,MONOGRAMMED,TEMP PU,MATL EE,PSL2			
7	BX154	5.00	10.44	52.20
	RING GASKET,BX154,3-1/16 10/15/20M			
8	780077-20E1	16.00	19.83	317.28
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,1-8UNC X 7,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING			
9	132879	1.00	495.00	495.00
	FLG,BLIND,AOZE,3-1/16 10M X 1/2 NPT,W/HUB,TEMP LU,MATL EE,PSL3			
10	100048	1.00	59.74	59.74
	FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING			
11	115900MV	1.00	3,285.00	3,285.00
	VLV,CW,SB100,2-9/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL2 PR2) QPQ TRIM, API 6A PR2 ANNEX F (BORE VENT HOLE)			
12	128567	1.00	8,292.00	8,292.00
	VLV/ACT,OMNI,FS-R,2-9/16 10M FE EE HF C/W MODEL DX-18 DIAPHRAGM PNEUMATIC ACTUATOR, FORGED BODY, REVERSE ACTING SLAB GATE, FLOATING SEATS & DIRECTIONAL FLOW BODY BUSHING (FLOW FROM RIGHT TO LEFT): MAT'L CLASS EE, HARDFACE TRIM, TEMP PU (-20 TO 250 F), PSL-2, PR-2; ACTUATOR: MATERIAL CLASS BB, TEMP P (-20F TO 180F) PR-2 (FC TYPE) W/MANUAL OVERRIDE,ACTUATOR REQUIRES 112 PSI TO OPEN AT FULL 10,000 PSI			
13	130652	1.00	7,500.00	7,500.00
	CHOKE,ADJ,HOE,H2,2-9/16 10M FE X FE ALLOY BDY,3" NOMINAL,W/ 2" SSTC TRIM,H2S SERVICE,API MONOGRAMMED,PSL-2 PR-2 TEMP-PU MATL-EE-1.5			
14	120734	1.00	399.00	399.00
	FLG,COMP,AOZE,2-9/16 10M X 2-7/8 EU,5000 PSI MAX WP,TEMP LU,PSL3,PR1			

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			Quantity	Price	Ext Price
15	BX153		5.00	11.54	57.70
	RING GASKET,BX153,2-9/16 10/15/20M				
16	780067-20E1		24.00	14.70	352.80
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,7/8-9UNC X 6-1/2,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING				
17	135166		1.00	4,490.00	4,490.00
	TBGHGR,CW,T40-CCL,7-1/16 X 3-1/2 EU API MOD BOX BTM X 3-1/2 EU BOX TOP,W/3 HBPV THD,W/ TWO 1/4 CCL & DOVETAIL SEAL,CF 124316P2,10000 PSI MAX WP,17-4PH SS,TEMP PU,MATL FF-0,5,PSL2,PR2				
18	BX156		1.00	62.48	62.48
	RING GASKET,BX156,7-1/16 10/15/20M				
19	NVS		1.00	61.16	61.16
	NEEDLE VALVE,MFS,1/2 NPT MXF,10M PSI WP,CARBON STEEL BODY, 304/316SS STEM, TFE PACKING (NON-NACE)				
20	PG10M		1.00	58.24	58.24
	PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT				
21	PRO	Prorata Freight	0.75	2,768.56	2,076.42
					49,338.02

OPTIONAL 15M ADAPTER

22	124999P2		0.00	7,423.00	0.00
	ADPT,TBGHD,CW,T40-CCL,7-1/16 15M STD X 3-1/16 10M STD,W/TWO #14 DHCV W/1/4 NPT INLET,10000 PSI MAX WP,TEMP PU,MAT'L EE,PSL2,PR2				
					0.00

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For Acceptance of this Quotation
Please Contact Ph: 713-626-8800
sales@cactuswellhead.com

Matl:	47,261.60
Labor:	0.00
Misc:	2,076.42
Sales Tax:	0.00
Total:	49,338.02

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

1. **ACCEPTANCE**: Acceptance of Cactus Wellhead, LLC (herein: Company) Purchase Terms and Conditions (herein: CACTUS Purchase Terms) shall be deemed effective upon shipment of the Products and/or rendering of Services which are the subject of an order by Customer (defined as the party purchasing CACTUS Products and or Services referred on the invoice). Any proposal made by Customer for additional or different terms and conditions or any attempt by Customer to vary in any degree any of the terms and conditions of CACTUS Purchase Terms is hereby rejected.

2. **PRICING**. Each Product and Service shall be invoiced at (and Customer shall pay) the respective price shown on the reverse side hereof, or if no price is shown on the reverse side hereof, at the price shown in the current price list of Company. In addition, Customer shall pay any and all additional charges for mileage, transportation, freight, packing and other related charges, as well as any federal, state or local tax, excise, or charge applicable on the sale, transportation, or use of Products and Services, unless otherwise specified.

3. **TERMS OF PAYMENT**. Customer agrees to pay Company any and all payments due on or before thirty (30) days from invoice date at the designated address of Company. Amounts unpaid after such thirty (30) day period shall bear interest at the lesser of (i) one and one-half percent (1½%) per month or (ii) the maximum rate allowed by law. Customer shall also pay any and all of Company's attorney's fees and court costs if any amounts hereunder are collected by an attorney or through legal proceedings. Company reserves the right, among other remedies, either to terminate this agreement or to suspend further deliveries upon failure of Customer to make any payment as provided herein.

4. **LIMITED WARRANTY**. COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE MERCHANTABILITY, FITNESS FOR PURPOSE, DESCRIPTION, QUALITY, PRODUCTIVENESS, ACCURACY OR ANY OTHER MATTER WITH RESPECT TO PRODUCTS OR SERVICES, ALL SUCH WARRANTIES BEING HEREBY SPECIFICALLY AND EXPRESSLY DISCLAIMED BY COMPANY. COMPANY MAY OFFER TECHNICAL ADVICE OR ASSISTANCE WITH REGARD TO THE PRODUCTS AND SERVICES BASED ON LABORATORY AND/OR FIELD EXPERIENCE AND CUSTOMER UNDERSTANDS AND AGREES THAT SUCH ADVICE REPRESENTS ONLY GOOD FAITH OPINIONS AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE. THE SOLE AND EXPRESS WARRANTY PROVIDED BY COMPANY IS TO WARRANT THAT THE PRODUCTS SOLD AS LISTED ON THE REVERSE SIDE HEREOF COMPLY WITH COMPANY'S SOLE SPECIFICATION AT THE DATE AND TIME OF MANUFACTURE. COMPANY MAKES NO WARRANTY THAT SUCH PRODUCTS SHALL MEET SUCH SPECIFICATION AT ANY TIME AFTER SHIPMENT OF PRODUCTS. USE OF SUCH PRODUCTS IS SPECIFICALLY NOT WARRANTED.

5. **REMEDY**. The exclusive remedy for this warranty for Products shall be limited to, in Company's sole discretion and judgment, the replacement of defective part(s), F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer), or repair of defective part(s). . The exclusive remedy for this warranty for Services shall be limited to the repeat of Services performed F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer). Any such repeat of Services or replacement or repair of Products shall not include any materials not sold by Company hereunder, and specifically excludes any obligation by Company related to other property of the Customer or any property of third parties. Provided, however, Company may in its sole discretion, decide to instead give Customer credit memorandum for the amounts already paid by Customer to Company for such Product or Service. IN ANY EVENT AND NOTWITHSTANDING THE LANGUAGE TO THE CONTRARY HEREIN, CUSTOMER ACKNOWLEDGES THAT ANY CLAIM IT MAY HAVE ARISING OUT OF OR IN CONNECTION WITH ANY ORIGINAL PRODUCTS AND SERVICES, ANY REPLACEMENT PRODUCTS OR REPEAT OF SERVICES AND THESE CACTUS PURCHASE TERMS SHALL BE LIMITED TO AND NOT EXCEED THE AMOUNT CUSTOMER HAS ACTUALLY PAID TO COMPANY FOR SUCH PRODUCTS AND/OR SERVICES PURSUANT HERETO. If Customer fails to make any such claim within thirty (30) days after completion of Service or delivery of Products, Customer hereby waives (to the extent permitted by applicable law) any and all claims it may or does have with respect to such Products and Services. Unless Customer is an authorized reseller of Company, Company's liability in connection with Products and Services shall extend only to Customer. CUSTOMER HEREBY INDEMNIFIES AND HOLDS COMPANY (AND ITS AGENTS, REPRESENTATIVES, OFFICERS DIRECTORS AND EMPLOYEES) HARMLESS FOR ANY LOSS, EXPENSE OR DAMAGE (WHETHER OF CUSTOMER OR OF ANY THIRD PARTY) ARISING FROM OR IN CONNECTION WITH PRODUCTS AND SERVICES, INCLUDING WITHOUT LIMITATION ANY FAILURE OF SUCH PRODUCTS AND SERVICES TO CONFORM TO CUSTOMER'S ORDER OR SPECIFICATION OR ANY OTHER STANDARD, OR ANY NEGLIGENCE OR BREACH OF WARRANTY BY COMPANY WITH RESPECT TO ANYTHING DONE OR FAILED TO HAVE BEEN DONE BY COMPANY, IF AND TO THE EXTENT THAT SUCH LOSS, EXPENSE OR DAMAGE EXCEEDS THE AMOUNT CUSTOMER HAS ACTUALLY PAID COMPANY PURSUANT HERETO FOR SUCH PRODUCTS OR SERVICES.

6. **INSPECTION**. The results of any inspection or testing reported by the Company to Customer represents only good faith opinions and are not to be construed as warranties or guarantees of the quality, classification, merchantability, fitness for purpose, condition, or liability of any equipment or material that has been inspected or tested by the Company.

7. **INSURANCE**. Each party agrees to maintain comprehensive general liability insurance in the amount of $1,000,000 each occurrence, $2,000,000 general aggregate, and Workers Compensation insurance per statutory requirements providing coverage for the indemnity obligations in this agreement. The Company (and such of its affiliates as it shall designate) including their officers, directors, members, shareholders, partners, joint ventures, employees, agents and representatives shall be named as additional insureds under the policies of Customer on a primary basis to the extent of its indemnification obligations set forth in these CACTUS Purchase Terms, and the policies shall also provide a waiver of subrogation rights in favor of the Company (and such of its affiliates as it shall designate) and their officers, directors, members, shareholders, employees, agents and representatives. The provisions of this Section 7 shall apply and the obligation to maintain insurance of each party in the coverages and amounts set forth herein shall remain in force regardless and independent of the validity or enforceability of the indemnity provisions of Section 8, below; the obligation to obtain insurance is a separate and independent obligation. If the insurance required herein is more or less than allowed by prevailing law, the indemnity obligations in Section 8 below shall be effective only to the maximum extent permitted under applicable law.

8. **INDEMNIFICATION**. The following indemnifications and releases of liability will apply to any Products or Services provided under this contract. COMPANY AND CUSTOMER EXPRESSLY AGREE THAT, TO THE EXTENT REQUIRED BY APPLICABLE LAW TO BE EFFECTIVE, THE INDEMNITIES AND DISCLAIMERS OF WARRANTIES CONTAINED HEREIN ARE "CONSPICUOUS."

A. **Customer Indemnity Obligations**. Customer hereby releases Company from any liability for, and shall protect, defend, indemnify, and hold harmless Company, its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, insurers, and consultants (specifically excluding any member of Customer Group) of all of the foregoing, and its and their respective successors, heirs and assigns ("Company Group") from and against all costs (including the payment of reasonable attorneys' fees), losses, liabilities, demands, causes of action, damages, or claims of every type and character ("Claims"), arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of Customer its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, customers, insurers, invitees and consultants of all of the foregoing, and its and their respective successors, heirs and assigns ("Customer Group"), or (ii) loss of or damage to any property of any member of Customer Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.

B. **Company Indemnity Obligations**. Company hereby releases Customer from any liability for, and shall protect, defend, indemnify, and hold harmless Customer from and against all Claims arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of any member of Company Group, or (ii) loss of or damage to any property of any member of Company Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF CUSTOMER GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.

C. **Third Party Claims**. Notwithstanding the foregoing, to the extent of its negligence, Company and Customer shall each indemnify, defend and hold harmless from and against all Claims, of every type and character, which are asserted by third parties for bodily injury, death or loss or destruction of property or interests in property in any manner caused by, directly or indirectly resulting from, incident to, connected with or arising out of the work to be performed, Services to be rendered or Products or materials furnished to Customer. When personal injury, death or loss of or damage to property is the result of joint or concurrent negligence of Customer and Company, the indemnitor's duty of indemnification shall be in proportion to its allocable share of such negligence.

D. **Pollution**. Company agrees that it shall be totally responsible for, and shall protect, defend and indemnify, Customer for all losses, damages, claims, demands, costs, charges, and other expenses, including attorneys' fees, for any and all waste and/or hazardous substances which are in Company Group's exclusive possession and control and directly associated with Company Group's equipment and facilities, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF CUSTOMER GROUP. Customer shall assume all responsibility for, including control and removal of, and shall protect, defend and indemnify Company Group from and against all Claims arising directly or indirectly from all other pollution or contamination which may occur during the conduct of operations hereunder, including, but not limited to, that which may result from fire, blowout, cratering, seepage or any other uncontrolled flow of oil, gas, water or other substance, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF COMPANY GROUP.

E. **Wild Well**. Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group for any damages, expenses, losses, fines, penalties, costs, expert fees and attorneys' fees arising out of a fire, blow out, cratering, seepage or wild well, including regaining control thereof, debris removal and property restoration and remediation. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.

F. **Underground Damage**. Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group from and against any and all claims, liability and expenses resulting from operations related to the work under this agreement on account of injury to, destruction of, or loss or impairment of any property right in or to oil, gas or other mineral substance or water, if at the time of the act or omission causing such injury, destruction, loss or impairment said substance and not been reduced to physical possession above the surface of the earth, and for any loss or damage to any formation, strata, or reservoir beneath the surface of the earth. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.

G. The foregoing indemnities set forth in these CACTUS Purchase Terms are intended to be enforceable against the parties hereto in accordance with the express terms and scope hereof notwithstanding Texas' Express Negligence Rule or any similar directive that would prohibit or otherwise limit indemnities because of the negligence (whether sole, concurrent, active or passive, ordinary or gross) or other fault or strict liability of Company or Customer.

H. If a claim is asserted against one of the parties to this agreement which may give rise to a claim for indemnity against the other party hereto, the party against whom the claim is first asserted must notify the potential indemnitor in writing and give the potential indemnitor the right to defend or assist in the defense of the claim.

9. **RISK OF LOSS**.

A. Title and risk of loss shall pass to Customer upon delivery as specified in Article 11. Customer's receipt of any material delivered hereunder shall be an unqualified acceptance of, and a waiver by Customer of any and all claims with respect to, such material unless Customer gives Company written notice of claim within thirty (30) days after such receipt. Notwithstanding the foregoing, installation or use of materials or equipment shall unequivocally constitute irrevocable acceptance of said materials. Customer assumes all risk and liability for the results obtained by the use of any material or Products delivered hereunder in work performed by on behalf of Customer or in combination with other or substances. No claim of any kind, whether as to material delivered or for non-delivery of material, and whether or not based on negligence, shall be greater in amount than the purchase price of the

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Hobbs, NM
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Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

material in respect of which such claim is made.

B. For Services, Company shall not be liable for loss or deterioration of any equipment and material of Customer under Company's control or stored on Company's premises after Company has completed its work if such loss or deterioration results from atmospheric condition, Act of God or other occurrence not within the reasonable control of Company.

10. **TERMINATION**. Company reserves the right to terminate the order at issue, or any part hereof, solely for its convenience at any time without cause with notice to Customer. Company shall have the right to cancel any unfilled order without notice to Customer in the event that Customer becomes insolvent, adjudicated bankrupt, petitions for or consents to any relief under any bankruptcy reorganization statute, violates a term of these CACTUS Purchase Terms, or is unable to meet its financial obligations in the normal course of business. In the event of such termination, Company shall immediately stop all work hereunder. Prior to delivery, Customer may terminate this order without cause upon thirty (30) day notice in writing to Company. In the event of such termination, Company at its sole option shall cease work up to thirty (30) days after such notice. Upon the cessation of work, Customer agrees to pay Company a reasonable termination charge consisting of a percentage of the Invoice price, such percentage to reflect the value of the Products, Services or work in progress completed upon the cessation of work. Customer shall also pay promptly to Company any costs incurred due to paying and settling claims of Company's vendors or subcontractors arising out of the termination of the order by Customer.

11. **DELIVERY**. Unless different terms are provided on the face of this order, all items are sold FOB Company's manufacturing facility in Bossier City, LA., and Customer shall bear the cost of transportation to any other named destination. Upon notification of Company of delivery, Customer shall become liable and shall bear all risk of loss associated with the Products at issues regardless of whether the Products are at a location controlled by Company and whether or not caused by the negligence of Company. In the case of Customer pick-up, the truck furnished by Customer is the destination and Company's obligations regarding shipments are fulfilled when the Products are loaded on the truck. Items to be shipped to any other destination outside of the United States are sold FOB port of shipment (Customer will deliver and bear the cost of transportation to the named port and will bear the cost of transportation thereafter to the final destination). The means of shipment and carrier to the point at which Company's liability for transportation costs ceases shall be chosen by Company. Excess packing, marking, shipping, and transportation charges resulting from compliance with Customer's request shall be for Customer's account. Unless otherwise agreed in writing, delivery time is not of the essence.

12. **RETURNS/REFUND**. Within ninety (90) days of delivery, Customer has the option to return any non-defective Products (any Products found to be defective will be subject to the warranty and remedies expressed in paragraphs four (4) and five (5) above). Customer shall bear all costs of shipment and/or transportation for such return and risk of loss for the returned Products shall remain with Customer until re-delivered to Company's Yard. Customer shall receive a full refund for any returns, less a twenty percent (20%) restocking fee. Company at all times reserves the right to designate certain Products as non-refundable in Company's Sales Quote or Sales Order. In addition, any made-to-order , special order, and/or Product manufactured to Customer specifications are NOT returnable.

13. **DELAYS**. If a specific shipping date is either not given or is estimated only, and is not promised on the face of this order or in a separate writing signed by Company, Company will not be responsible for delays in filling this order nor liable for any loss or damages resulting from such delays. If a specific shipping date is promised, Company will not be liable for delays resulting from causes beyond Company's control, including without limitation accidents to machinery, fire, flood, act of God or other casualty, vendor delays, labor disputes, labor shortages, lack of transportation facilities, priorities required by, requested by, or granted for the benefit of any governmental agency, or restrictions imposed by law or governmental regulation.

14. **LIMITATION OF DAMAGES**. Notwithstanding any other provision contained herein, Company shall not be liable to Customer Group or any third party for consequential (whether direct or indirect damages), indirect, incidental, special or punitive damages, howsoever arising, including, but not limited to loss of profits (whether direct or indirect damages), revenues, production or business opportunities, WHETHER OR NOT SUCH LOSSES ARE THE RESULT IN WHOLE OR IN PART FROM THE NEGLIGENCE (WHETHER SOLE, JOINT, CONCURRENT OR COMPARATIVE, ACTIVE OR PASSIVE, ORDINARY OR GROSS) OF COMPANY GROUP, OR ANY DEFECT IN THE PREMISES, PRE-EXISTING CONDITIONS, PATENT OR LATENT, BREACH OF STATUTORY DUTY, STRICT LIABILITY OR ANY OTHER THEORY OF LEGAL LIABILITY OF COMPANY GROUP (EXCLUDING ONLY LOSSES CAUSED BY THE WILLFUL MISCONDUCT OF COMPANY GROUP).

15. **SECURITY INTEREST**. Customer grants Company, and Company reserves, a security interest, covering all Customer's obligations under these terms (including any liability for breach of Customer's obligations), and applying to all of Customer's right, title, and interest in the Leased Equipment, together with all accessions thereto and any proceeds that may arise in connection with the sale or disposition thereof. Customer shall cooperate with Company in the filing of Financing Statements to perfect such security interest. Furthermore, Customer authorizes Company to execute and file Financing Statements without Customer's signature in any jurisdiction in which such procedure is authorized. Customer warrants, covenants and agrees that it will not, without prior written consent of Company, sell, contract to sell, lease, encumber, or dispose of the Leased Equipment or any interest in it until all obligations secured by this security interest have been fully satisfied.

16. **PATENT AND INTELLECTUAL PROPERTY**. The sale of any Products hereunder does not convey any intellectual property license by implication, estoppel or otherwise regarding the Products. Company retains the copyright in all documents, catalogs and plans supplied to Customer pursuant to or ancillary to the contract. Unless otherwise agreed in writing, Customer shall obtain no intellectual property interest in any Company Product.

17. **TAXES**. Unless otherwise specifically provided for herein, Customer shall be liable for all federal, state, or local taxes or import duties assessed by any governmental entity of any jurisdiction in connection with the Products or Services furnished hereunder.

18. **DECEPTIVE TRADE PRACTICES**. Customer acknowledges the application of Section 17.45(4) of the Texas Deceptive Trade Practices Act (Texas Business Commission Code §17.41 et. seq.) (the "Act") to any transaction contemplated hereby and represents that it is not a "consumer" for the purposes of the Act.

19. **NO WAIVER**. Failure to enforce any or all of the provisions in these CACTUS Purchase Terms in any particular instance shall not constitute or be deemed to constitute a waiver of or preclude subsequent enforcement of the same provision or any other provision of these CACTUS Purchase Terms. Should any provision of these CACTUS Purchase Terms be declared invalid or unenforceable all other provisions of these CACTUS Purchase Terms shall remain in full force and effect.

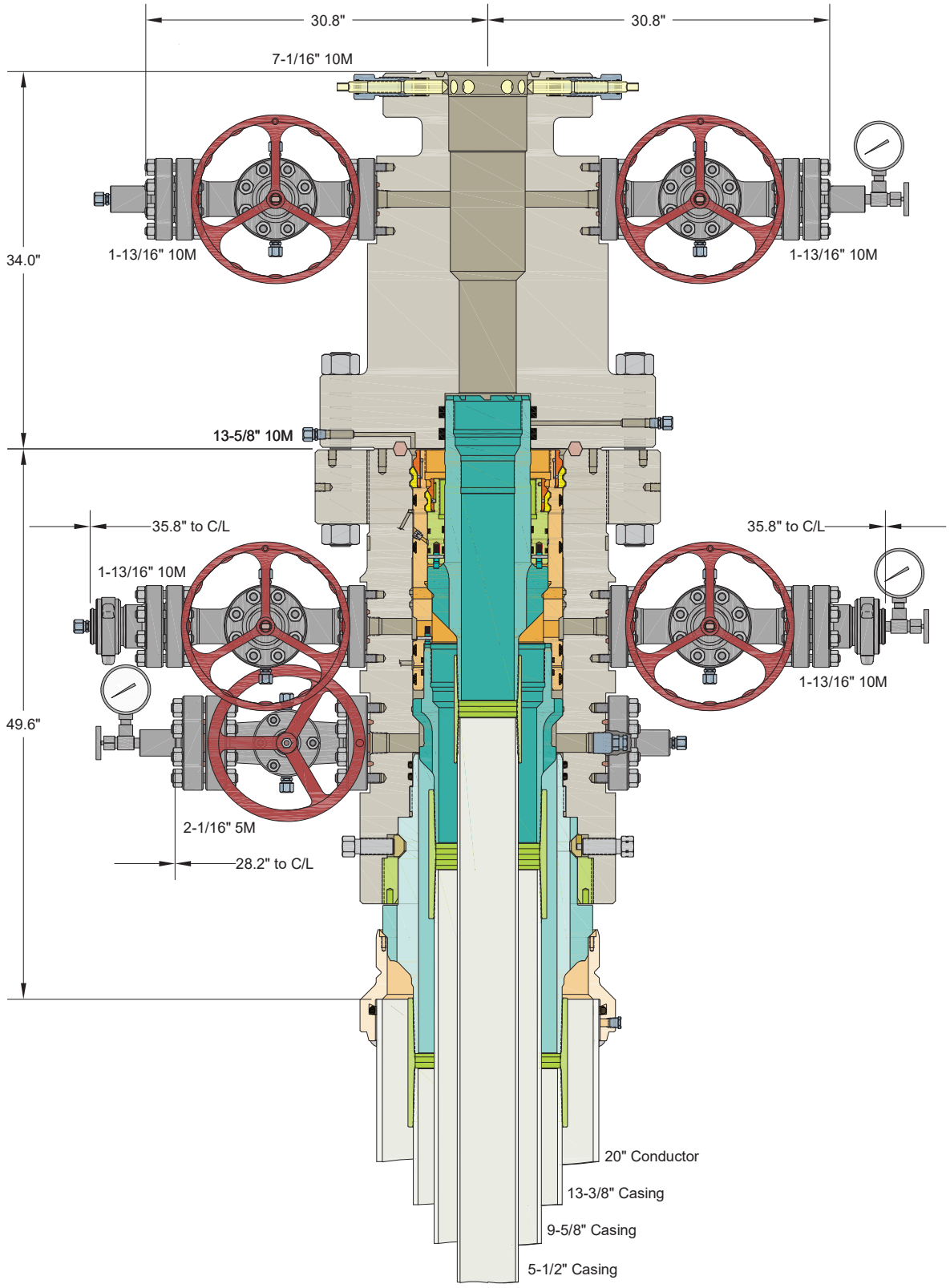
20. **CHOICE OF LAW**. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF THE STATE OF TEXAS IN HARRIS COUNTY, TEXAS AND THE FEDERAL COURTS IN AND FOR THE SOUTHERN DISTRICT OF TEXAS SITTING IN HOUSTON, TEXAS IN CONNECTION WITH ANY DISPUTE ARISING UNDER THIS AGREEMENT OR ANY DOCUMENT OR INSTRUMENT ENTERED INTO IN CONNECTION HEREWITH.

21. **AUTHORITY**. Customer warrants and represents that the individual receiving this order at issue on behalf of Customer has the authority to enter into these CACTUS Purchase Terms on behalf of Customer, and that upon receipt these CACTUS Purchase Terms shall be binding upon Customer.

22. **FORCE MAJEURE**. If Company is unable to carry out its obligations hereunder by reason of force majeure, then upon Company's giving of notice and reasonably full particulars of such force majeure in writing to Customer, Company's obligations that are affected by force majeure shall be suspended during the continuance of the force majeure and Company shall not be liable to Customer for any damages incurred by the Customer as a result thereof.

23. **CONFIDENTIALITY**. Customer acknowledges the highly secret and valuable nature of all proprietary inventions, methods, processes, designs, know-how, and trade secrets embodied in the Company's equipment, Products and Services and its components (hereinafter referred to as "Confidential Data"). Accordingly, Customer agrees not to disclose or use any Confidential Data. Customer further agrees to take any and all necessary precautions to prevent disclosure of the Confidential Data associated with the Company's equipment, Products and Services and components thereof to persons other than those employees of Customer for whom such disclosure is necessary for performance of the work hereunder.

24. **COMPLIANCE**. Customer expressly agrees to comply with and abide by, all of the laws of the United States and of the State of Texas, including, but not limited to, OSHA, EPA and all rules and regulations now existing or that may be hereafter promulgated under and in accordance with any such law or laws, and hereby agrees to indemnify and hold Company harmless from any and all claims, demands, or damages incurred by Company arising from Customer's failure to comply with all laws and governmental regulations. The indemnities in this paragraph shall be in addition to any other indemnity obligations between Customer and Company, including any other indemnity obligations contained herein.



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

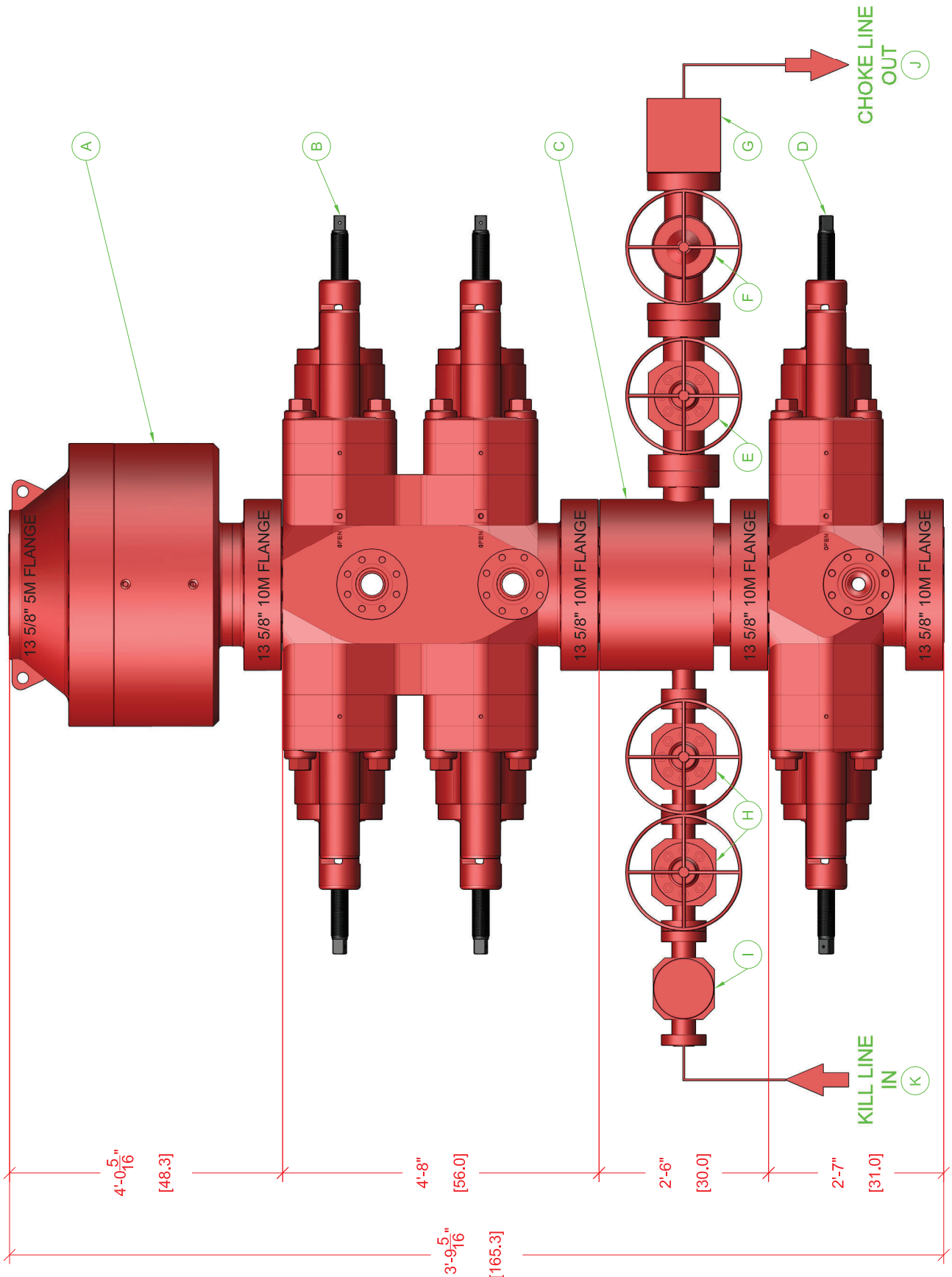
ALL DIMENSIONS APPROXIMAT

CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

20" x 13-3/8" x 9-5/8" x 5-1/2" MBU-3T-CFL Wellhead Sys.
With 13-5/8" 10M x 7-1/16" 10M CTH-DBLHPS Tubing Head
And 9-5/8" & 5-1/2" Fluted Mandrel Casing Hangers

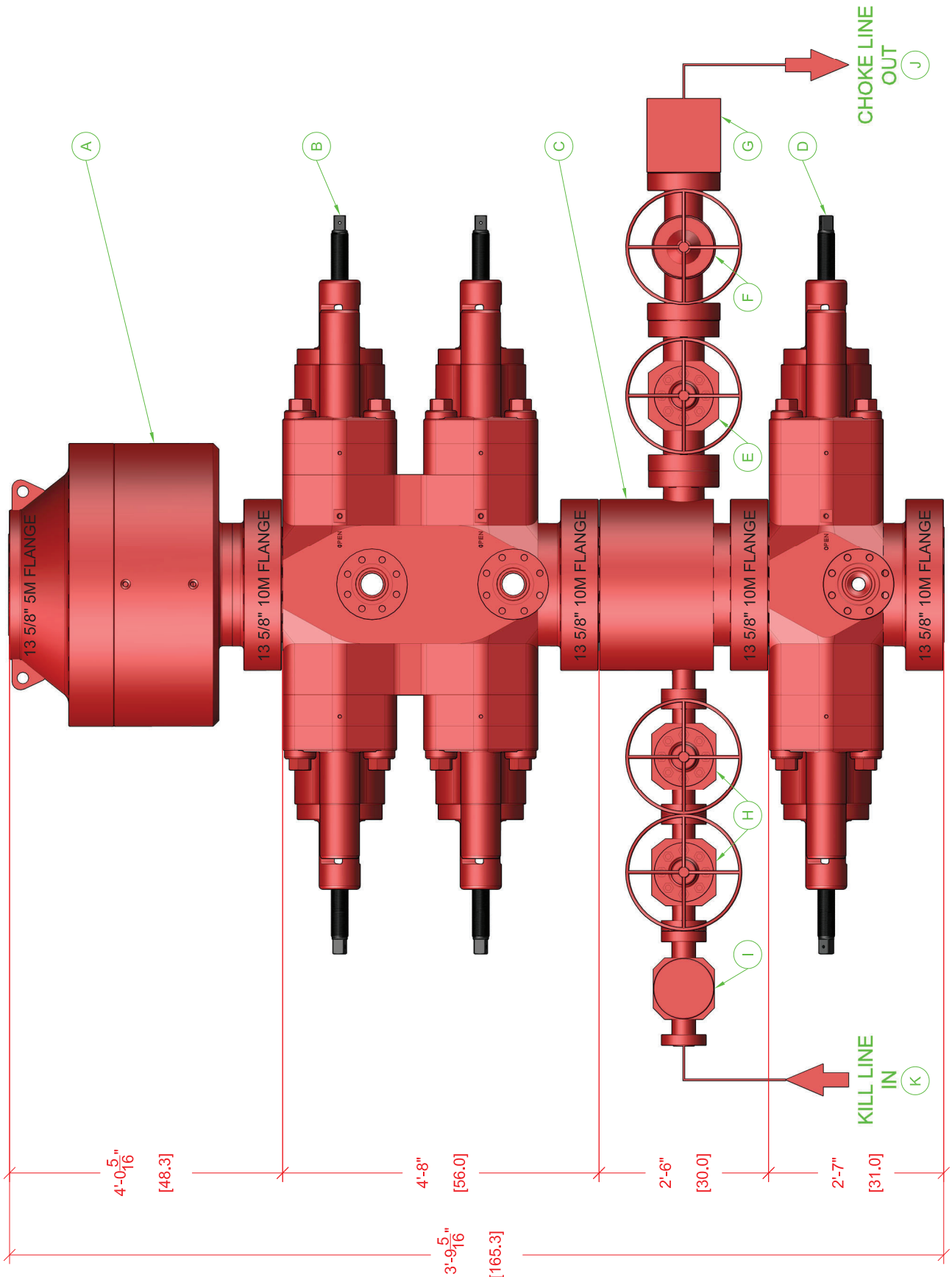
DRAWN	VJK	01MAY24
APPRV		
DRAWING NO.	HBE0001215	



BOP EQUIPMENT INFORMATION

ITEM	DESCRIPTION	MODEL	QTY
A	ANNULAR BOP	13 5/8" 5M	1
B	DOUBLE RAM BOP	13 5/8" 10M TYPE-U	1
C	MUD CROSS	13 5/8" 10M	1
D	SINGLE RAM BOP	13 5/8" 10M TYPE-U	1
E	GATE VALVE	4 1/16" 10M FC MANUAL	1
F	HCR VALVE	4 1/16" 10M HCR	1

ITEM	DESCRIPTION	MODEL	QTY
G	STUDDED BLOCK	4 1/16" 10M	1
H	GATE VALE	2 1/16" 10M FC MANUAL	2
I	CHECK VALVE	2 1/16" 10M	1
J	CHOKE HOSE	4 1/16" 10M	1
K	KILL HOSE	2 1/16" 10M	1
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I	CHECK VALVE	2 1/16" 10M	1
J	CHOKE HOSE	4 1/16" 10M	1
K	KILL HOSE	2 1/16" 10M	1
L			

1. Geological Formations

TVD of target 8,796
MD at TD 19,634

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	907	N/A	
Top of Salt	1570	N/A	
Base Salt/Lamar	2362	N/A	
Top Delaware Sands/Bell Canyon	2550	N/A	
Cherry Canyon	3425	N/A	
Brushy Canyon	4727	N/A	
Lower Brushy Canyon	5670	N/A	
Bone Spring Lime	6334	N/A	
1st Bone Spring Sand	7260	Hydrocarbons	
2nd Bone Spring Sand	7944	Hydrocarbons	
3rd Bone Spring Carb	8304	Hydrocarbons	
3rd Bone Spring Sand	9156	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1050	1050	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.63	3.80	6.39
12 1/4	0	2340	2340	9-5/8"	36.00	J-55	LT&C	1.61	2.81	5.38
8 3/4	0	8389	8389							
8 3/4	8389	19634	8796	5-1/2"	20.00	P-110	BT&C	2.55	2.84	78.75
					BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

H2S Drilling Operations Plan

Training

All company and contract personnel admitted on location must be trained by a qualified H2S safety instructor to do the following:

1. Characteristics of H2S
2. Physical effects and hazards
3. Principle and operation of H2S detectors, warning system, and briefing areas
4. Evacuation procedure, routes and first aid
5. Proper use of safety equipment & life support systems
6. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

H2S Detection and Alarm Systems

1. 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 be placed as deemed necessary
2. An audio alarm system will be installed on the derrick floor and in the top doghouse

Windsock and/or wind streamers

1. Windsock at mudpit area should be high enough to be visible
2. Windsock on the rig floor and / or top of doghouse should be high enough to be visible

Condition Flags & Signs

1. Warning signs on access road to location
2. Flags are to be displayed on sign at the 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.

Well Control Equipment

1. See the pressure control section of this submission.

Communication

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

Drillstem Testing

1. No DSTs or cores are planned at this tmie
2. Drilling contractor supervisor will be required to be familiar with the effects that H2S has on tubular goods and other mechanical equipment.
3. If H2S is encountered, mud system will be altered if necessary to maintain control of the well. A mud gas separator will be brought into service along with H2S scavenger if necessary.

H2S Contingency Plan

Emergency Procedures

In the event of an H2S release, the first responder(s) must:

1. Isolate the area and prevent entry by other persons into the 100 PPM ROE.
2. Evacuate any public places encompassed by the 100 PPM ROE.
3. Be equipped with H2S monitors and air packs in order to control the release.
4. Use the buddy system
5. Take precautions to avoid personal injury during this operation
6. Contact operator and/or local officials to aid in operation. See list of emergency contacts attached.
7. Have received training the detection of H2S, measures for protection against the gas, and equipment used for protection and emergency response

Ignition of the Gas Source

1. Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). 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

Contacting Authorities

1. Coterra 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.
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Emergency Contacts

Coterra Energy

Charlie Pritchard: Drilling Operations Manager: 432 – 238 – 7084

Darrell Kelly: Vice President EHS: 281 – 589 – 5795

Third Party

PERMIAN REGION CONTACT NUMBERS

CALL 911

Air Ambulance Services

Reeves County Medical - Pecos, TX	432-447-3551
Aero Care - Midland, TX	800-627-2376
Tri State Care Flight - Artesia, NM	800-800-0900
Air Methods - Hobbs, NM	800-242-6199

Fire / Police / Medical Care

Sheriff's Office		Fire Departments		Hospital / Medical Care Facilities	
Andrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200
Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561
Howard County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211
Terry County	806-637-2212	Brownfield	806-637-6633		
Crane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555
Val Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566
		Denver City	806-592-3516	Yoakum County Hospital	806-592-2121
Pecos County	432-336-3521	Ft. Stockton	432-336-8525		
Glasscock County	432-354-2361	Garden City			
Winkler County	432-586-3461	Kermit	432-586-2577	Winkler County Memorial	432-586-5864
		McCamey	432-652-8232	McCamey Hospital	432-652-8626
Loving County	432-377-2411	Mentone			
Irion County	325-835-2551	Mertzon			
Ward County	432-943-6703	Monahans	432-943-2211	Ward Memorial Hospital	432-943-2511
Ector County	432-335-3050	Odessa	432-335-4650	Odessa Regional Hosp.	432-582-8340
Crocket County	325-392-2661	Ozona	325-392-2626		
Reeves County	432-445-4901	Pecos	505-757-6511	Reeves County Hospital	432-447-3551
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Hockley County	806-894-3126	Levelland	806-894-3155	Covenant Health	806-894-4963
Tom Green County	325-655-8111	San Angelo	325-657-4355	San Angelo Comm. Med.	325-949-9511
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New Mexico					
Lea County	505-396-3611	Knowles	505-392-7469	Lea Reg Med Ctr	575-492-5000
Eddy County	575-887-7551	Carlsbad	575-885-3125	Carlsbad Medical	575-887-4100
		Artesia	575-746-5050	Artesia Hospital	575-748-3333
Roosevelt County	575-356-4408				
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Ground Ambulance Services

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COTERRA

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Ground Ambulance Services

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Well Control Plan

Warning Signs of a Kick

If a kick is ever suspected, perform flow check.

While Drilling:

1. Drilling break or increase in penetration rate
2. Increase of flow
3. Pit gain
4. Flow without pumping
5. Circulating pressure decrease and/or spm increase
6. Increase in gas cutting at the shakers
7. Decrease in cuttings at shakers

While Tripping:

1. Hole not taking the proper fill on trip out of hole
2. Hole returns too much mud on trip in hole
3. Flow without pumping

While Out of the Hole:

1. Flow
2. Pit gain

Well Control Procedures with Diverter

A TIW valve in the open position must be on the rig floor at all times.

If rotating head is installed:

1. Perform flow check.
2. If well is flowing, divert flow down flow line and through separator, before returning across shakers.
3. Swap to 10 ppg brine and circulate around. Notify superintendent.

4. If well becomes uncontrollable, close annular, which will open HCR to divert flow away from rig.

If rotating head is not installed:

1. Perform flow check.
2. If well is flowing uncontrollably, close annular, which will open HCR to divert flow away from rig.
3. Swap to 10 ppg brine and circulate around. Notify superintendent.
4. After 10 ppg is circulated around shut pumps off and perform flow check.

Well Control Procedures

Coterra follows a hard shut-in procedure. Choke will be in the closed position.

General Well Control

1. If in doubt, secure the well first, then inform your supervisor.
2. Never wait for approval to shut in the well.
3. Verify that the mud pump is off before you close the BOP.
4. Always check and verify the well is properly secured after shut in.
5. Always install TIW valve in the open position.
6. If TIW valve is installed and then closed, apply estimated DP shut-in pressure above valve before opening.
7. The weak link in the mud system and mud lines is the pressure relief valve or pop off valve on the mud pump.
8. Keep the TIW valve wrench in a designated location on the rig floor and in the open position.
9. Use a drill string float above the bit. Don't perforate or disable the float.
10. In the event wellbore pressure encroaches to the maximum rated pressure of the annular, primary pressure control will be switched to the higher rated components (i.e., switch from annular to pipe rams) – upper pipe rams will be closed, and the annular opened in order to not exceed maximum rated pressures.

Hard Shut-In

1. Remote choke is closed.
2. Stop pumping and space out.
3. Check for flow.
4. To shut in, close annular or pipe ram if no annular is present.
5. Open the HCR valve.
6. Check systems, bump float. Record Initial Shut in Drill pipe pressure and Initial shut in casing pressure.

Flow Check when on Bottom

1. Alert crew & stop rotating
2. Pick up and space out
3. Shut down pumps
4. Observe well for flow
5. Shut-in if flowing

Shutting in while Drilling

1. After flow has been detected via flow check, kill pumps, shut in well and open HCR
2. Verify well is shut-in and flow has stopped
3. Notify supervisory personnel
4. Record data
5. Begin go forward planning

Flow Check while Tripping

1. Alert crew & pick up / space out
2. Stop pipe movement. Set slips with tool joint accessible at rotary table
3. Install open TIW safety valve and close valve
4. Observe well for flow
5. Shut-in if flowing

Shutting in while Tripping

1. Install open TIW safety valve and close valve
2. Shut-in the well
3. Verify well is shut-in and flow has stopped
4. Install IBOP
5. Notify supervisory personnel
6. Record data; SICP, shut-in time, kick depth, and pit gain
7. Begin go forward planning

Shutting in while Out of Hole

1. Sound alarm
2. Shut-in well: close blind rams.
3. Verify well is shut-in and monitor pressures.
4. Notify supervisory personnel
5. Record data; SICP, shut-in time, kick depth, and pit gain
6. Begin go forward planning

Information to Record while Shut-In

1. Shut in drill pipe pressure every 5 minutes

2. Shut in casing pressure every 5 minutes
3. Pit gain
4. Total volume in pit system
5. Mud weight in suction pit
6. Current depth
7. Total depth
8. Time the well is shut in

H2S with Annular Diverter:

1. Kill Pumps, close annular, which will open HCR, to divert flow away from rig.
2. Muster and take head count.
3. Call ASSI to check location for H2S. Call Coterra superintendent.
4. After ASSI has checked for H2S the path forward will be decided from Coterra superintendent.

H2S with BOP's:

1. Kill pumps
2. Shut in annular with HCR open and chokes closed.
3. Muster and take head count.
4. Call ASSI to check location for H2S. Call Coterra superintendent.
5. After ASSI has checked for H2S. discuss path forward with Coterra superintendent

Procedure for Closing Blind Rams

- Open HCR valve (visually check that the HCR valve is open – stem in the valve is open, stem out the valve is closed).
- Verify all circulating pumps are off (mud pumps, trip tank pump, etc.)
- Ensure that the hydraulic choke is in the closed position.
- Close the blind rams and place the "blind rams closed, bleed pressure and remove hole cover before opening" sign on the console.
- Monitor the shut in casing pressure gauge periodically while the blinds are closed to ensure that wellbore pressure isn't building. If pressure build up is observed, monitor the shut in casing pressure more frequently & document. Notify rig management and Coterra representative of the pressure build up.
- Ensure that the inner bushings are locked into the master bushings if applicable.
- Install hole cover.

Procedure for Opening Blind Rams

- Make sure choke manifold is aligned correctly.
- Open the hydraulic choke to bleed any trapped pressure that may be under the blind rams. (Even if the casing pressure gauge is reading zero).

- Confirm that no flow is discharging into the trip tank or possum bellies of the shale shaker (wherever the separator is discharging into).
- Remove hole cover.
- Confirm that the inner bushing are locked into the master bushings if applicable.
- Clear all personnel from the rig floor.
- Remove sign and open blind rams.
- Return the BOPE to its original operating alignment.

BOP Drills

- Drilling crews should conduct BOP drills weekly from BOP nipple up to TD for reaction time to properly simulate securing the well. Record BOP drills on that day's report.
- Standard precautions such as checking the accumulator for proper working pressure, function testing rams, and recording slow pump rates are performed on a daily basis or on trips..
- All supervisory personnel onsite need to be properly trained and currently hold certification from an approved blowout prevention school. Any deviation from this needs to be discussed prior to spud.
- Drillers should always notify the tool pusher and the drilling foreman before performing a blowout drill.

Choke Manifold Freeze Prevention

- When possible, blow out the choke & kill lines as well as the choke manifold with rig air to remove water based fluids.
- When clear water is being placed into the choke & kill line as well as the choke manifold, make sure that the water has a mixture of 30% methanol added.
- When applicable, choke & kill lines as well as choke manifold needs to be pumped through with the rig pump by the driller to ensure that the lines aren't plugged with settling barite or solids.

1. Geological Formations

TVD of target 8,796
MD at TD 19,634

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	907	N/A	
Top of Salt	1570	N/A	
Base Salt/Lamar	2362	N/A	
Top Delaware Sands/Bell Canyon	2550	N/A	
Cherry Canyon	3425	N/A	
Brushy Canyon	4727	N/A	
Lower Brushy Canyon	5670	N/A	
Bone Spring Lime	6334	N/A	
1st Bone Spring Sand	7260	Hydrocarbons	
2nd Bone Spring Sand	7944	Hydrocarbons	
3rd Bone Spring Carb	8304	Hydrocarbons	
3rd Bone Spring Sand	9156	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1050	1050	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.63	3.80	6.39
12 1/4	0	2340	2340	9-5/8"	36.00	J-55	LT&C	1.61	2.81	5.38
8 3/4	0	8389	8389							
8 3/4	8389	19634	8796	5-1/2"	20.00	P-110	BT&C	2.55	2.84	78.75
					BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Y

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	509	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	136	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	416	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	137	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	645	10.30	3.64	22.18		Lead: Tuned Light + LCM
	3278	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	45
Intermediate	0	58
Production	2140	25

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

4. Pressure Control Equipment

	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
12 1/4	13 5/8	10M	Annular	X	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		
8 3/4	13 5/8	10M	Annular	X	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1050'	FW Spud Mud	7.83 - 8.33	30-32	N/C
1050' to 2340'	Brine Water	9.80 - 10.30	30-32	N/C
2340' to 19634'	Cut Brine or OBM	9.00 - 9.50	27-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

	Logging, Coring and Testing
	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
X	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4345 psi
Abnormal Temperature	No

	Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.
X	H2S is present
X	H2S plan is attached

8. Other Facets of Operation

9. Wellhead

1. The multi-bowl wellhead will be installed by a vendor representative. A copy of the installation instructions has been sent to the BLM field office.

2. A packoff will be installed after running and cementing the production casing. This packoff will be tested to 10K psi.

BOPE Additional Information & Testing

1. After running the first string of casing, a 10M BOP/BOPE system with 10M annular will be installed. BOPs will be tested according to Onshore Order #2. BOPE will be tested to full rated pressure (10K for all BOPE). For the low test, the system will be tested to 250 psi.

2. All BOP equipment will be tested utilizing a conventional test plug.

3. A remote kill line is included in the BOPE system

4. All casing strings will be tested per Onshore Order #2, to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of casing burst.

5. If well conditions dictate, conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Additional Well Control Notes

1. In the event wellbore pressure encroaches to the maximum rated pressure of the annular, primary pressure control will be switched to the higher rated components

(i.e., switch from annular to pipe rams) – upper pipe rams will be closed, and the annular opened in order to not exceed maximum rated pressures.

Coterra Energy

Eddy County, NM (NAD 83)
Riverbend 14 Federal Com
Riverbend 14 Federal Com 8H

OH

Plan: Plan 1

Total Directional
"Driven by TOTAL performance"

Standard Plan Report

16 October, 2025

Total Report Version 1.80

COMPASS 5000.16 Build 97

ATTENTION
All annotation callouts related to distances are uncertified and are approximated footages using available software and measurement tools. They should not be mistaken as an official record, which can only be obtained via a certified land surveyor.

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Project Eddy County, NM (NAD 83)

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

Site Riverbend 14 Federal Com

Site Position:		**Northing:**	414,092.97 usft	**Latitude:**	32.1381262
From:	Map	**Easting:**	625,806.83 usft	**Longitude:**	-104.0604317
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Riverbend 14 Federal Com 8H

Well Position	**+N/-S**	0.00 usft	**Northing:**	414,092.51 usft	**Latitude:**	32.1381252
	+E/-W	0.00 usft	**Easting:**	625,766.85 usft	**Longitude:**	-104.0605608
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	2,935.00 usft
Grid Convergence:		0.15 °				

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM2025	12/13/2025	6.42	59.63	47,126.80000000

Design Plan 1

Audit Notes:

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

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.00	0.00	0.00	179.75

Survey Tool Program **Date** 10/16/2025

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.00	19,634.41	Plan 1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Planned Survey Report

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Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Plan Summary

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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	5.00	0.00	749.68	10.90	0.00	2.00	2.00	0.00	0.00	
1,001.27	5.00	0.00	1,000.00	32.80	0.00	0.00	0.00	0.00	0.00	
1,792.67	13.78	105.13	1,783.48	42.74	91.59	2.00	1.11	13.28	122.51	
7,700.27	13.78	105.13	7,520.96	-324.65	1,450.35	0.00	0.00	0.00	0.00	
8,389.47	0.00	0.00	8,203.52	-346.18	1,529.99	2.00	-2.00	0.00	180.00	
9,139.47	75.00	179.75	8,756.95	-770.84	1,531.84	10.00	10.00	0.00	179.75	
9,439.47	90.00	179.75	8,796.00	-1,067.42	1,533.14	5.00	5.00	0.00	-0.01	
13,209.11	90.00	179.75	8,796.00	-4,837.03	1,549.78	0.00	0.00	0.00	0.00	
15,099.11	90.00	3.03	8,796.00	-4,866.74	2,774.49	9.35	0.00	-9.35	270.00	
15,263.03	90.00	359.75	8,796.00	-4,702.89	2,778.48	2.00	0.00	-2.00	-90.00	
19,634.41	90.00	359.75	8,796.00	-331.55	2,759.69	0.00	0.00	0.00	0.00	

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	414,092.51	625,766.85	32.1381252	-104.0605608	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	414,092.51	625,766.85	32.1381252	-104.0605608	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	414,092.51	625,766.85	32.1381252	-104.0605608	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	414,092.51	625,766.85	32.1381252	-104.0605608	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	414,092.51	625,766.85	32.1381252	-104.0605608	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	414,092.51	625,766.85	32.1381252	-104.0605608	0.00	0.00	0.00	0.00
Start Build 2.00													
600.00	2.00	0.00	599.98	1.75	0.00	414,094.26	625,766.85	32.1381300	-104.0605608	-1.75	2.00	2.00	0.00
700.00	4.00	0.00	699.84	6.98	0.00	414,099.49	625,766.85	32.1381444	-104.0605608	-6.98	2.00	2.00	0.00
750.00	5.00	0.00	749.68	10.90	0.00	414,103.41	625,766.85	32.1381551	-104.0605607	-10.90	2.00	2.00	0.00
Start 251.27 hold at 750.00 MD													
800.00	5.00	0.00	799.49	15.26	0.00	414,107.77	625,766.85	32.1381671	-104.0605607	-15.26	0.00	0.00	0.00
900.00	5.00	0.00	899.11	23.97	0.00	414,116.48	625,766.85	32.1381911	-104.0605606	-23.97	0.00	0.00	0.00
1,001.27	5.00	0.00	1,000.00	32.80	0.00	414,125.31	625,766.85	32.1382153	-104.0605606	-32.80	0.00	0.00	0.00
Start DLS 2.00 TFO 122.51													
1,092.57	4.30	20.98	1,091.00	39.98	1.23	414,132.49	625,768.08	32.1382351	-104.0605565	-39.97	2.00	-0.76	22.99
Rustler													
1,100.00	4.28	22.94	1,098.41	40.49	1.43	414,133.00	625,768.28	32.1382365	-104.0605559	-40.49	2.00	-0.37	26.29
1,200.00	4.41	49.55	1,198.13	46.42	5.81	414,138.93	625,772.66	32.1382527	-104.0605417	-46.39	2.00	0.13	26.61
1,300.00	5.34	70.58	1,297.78	50.46	13.12	414,142.97	625,779.97	32.1382638	-104.0605180	-50.40	2.00	0.94	21.03
1,400.00	6.75	84.13	1,397.23	52.61	23.36	414,145.12	625,790.21	32.1382696	-104.0604849	-52.50	2.00	1.41	13.55
1,500.00	8.41	92.71	1,496.35	52.86	36.52	414,145.37	625,803.37	32.1382702	-104.0604424	-52.70	2.00	1.65	8.58
1,574.58	9.73	97.15	1,570.00	51.82	48.21	414,144.33	625,815.06	32.1382673	-104.0604046	-51.61	2.00	1.77	5.96

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Top Salt													
1,600.00	10.19	98.40	1,595.04	51.23	52.57	414,143.74	625,819.42	32.1382656	-104.0603906	-51.00	2.00	1.81	4.92
1,700.00	12.03	102.39	1,693.16	47.70	71.50	414,140.21	625,838.35	32.1382558	-104.0603294	-47.39	2.00	1.85	3.99
1,792.67	13.78	105.13	1,783.48	42.74	91.59	414,135.25	625,858.44	32.1382420	-104.0602646	-42.34	2.00	1.89	2.96
Start 5907.61 hold at 1792.67 MD													
1,800.00	13.78	105.13	1,790.60	42.29	93.28	414,134.80	625,860.13	32.1382408	-104.0602591	-41.88	0.00	0.00	0.00
1,900.00	13.78	105.13	1,887.72	36.07	116.28	414,128.58	625,883.13	32.1382235	-104.0601849	-35.56	0.00	0.00	0.00
2,000.00	13.78	105.13	1,984.84	29.85	139.28	414,122.36	625,906.13	32.1382063	-104.0601106	-29.24	0.00	0.00	0.00
2,100.00	13.78	105.13	2,081.96	23.63	162.28	414,116.14	625,929.13	32.1381890	-104.0600363	-22.92	0.00	0.00	0.00
2,200.00	13.78	105.13	2,179.08	17.41	185.28	414,109.92	625,952.13	32.1381717	-104.0599621	-16.60	0.00	0.00	0.00
2,300.00	13.78	105.13	2,276.20	11.19	208.28	414,103.70	625,975.13	32.1381545	-104.0598878	-10.28	0.00	0.00	0.00
2,388.34	13.78	105.13	2,362.00	5.70	228.60	414,098.21	625,995.45	32.1381392	-104.0598222	-4.70	0.00	0.00	0.00
Base Salt/Lamar													
2,400.00	13.78	105.13	2,373.32	4.97	231.28	414,097.48	625,998.13	32.1381372	-104.0598136	-3.96	0.00	0.00	0.00
2,500.00	13.78	105.13	2,470.44	-1.24	254.28	414,091.27	626,021.13	32.1381200	-104.0597393	2.35	0.00	0.00	0.00
2,581.92	13.78	105.13	2,550.00	-6.34	273.12	414,086.17	626,039.97	32.1381058	-104.0596785	7.53	0.00	0.00	0.00
Top Delaware Sands/Bell Canyon													
2,600.00	13.78	105.13	2,567.56	-7.46	277.28	414,085.05	626,044.13	32.1381027	-104.0596651	8.67	0.00	0.00	0.00
2,700.00	13.78	105.13	2,664.68	-13.68	300.28	414,078.83	626,067.13	32.1380855	-104.0595908	14.99	0.00	0.00	0.00
2,800.00	13.78	105.13	2,761.80	-19.90	323.28	414,072.61	626,090.13	32.1380682	-104.0595165	21.31	0.00	0.00	0.00
2,900.00	13.78	105.13	2,858.92	-26.12	346.28	414,066.39	626,113.13	32.1380510	-104.0594423	27.63	0.00	0.00	0.00
3,000.00	13.78	105.13	2,956.04	-32.34	369.28	414,060.17	626,136.13	32.1380337	-104.0593680	33.95	0.00	0.00	0.00
3,100.00	13.78	105.13	3,053.16	-38.56	392.28	414,053.95	626,159.13	32.1380164	-104.0592938	40.27	0.00	0.00	0.00
3,200.00	13.78	105.13	3,150.29	-44.78	415.28	414,047.73	626,182.13	32.1379992	-104.0592195	46.59	0.00	0.00	0.00
3,300.00	13.78	105.13	3,247.41	-51.00	438.28	414,041.51	626,205.13	32.1379819	-104.0591453	52.91	0.00	0.00	0.00
3,400.00	13.78	105.13	3,344.53	-57.22	461.28	414,035.29	626,228.13	32.1379647	-104.0590710	59.23	0.00	0.00	0.00
3,482.86	13.78	105.13	3,425.00	-62.37	480.34	414,030.14	626,247.19	32.1379504	-104.0590095	64.46	0.00	0.00	0.00
Cherry Canyon													
3,500.00	13.78	105.13	3,441.65	-63.43	484.28	414,029.08	626,251.13	32.1379474	-104.0589968	65.55	0.00	0.00	0.00
3,600.00	13.78	105.13	3,538.77	-69.65	507.28	414,022.86	626,274.13	32.1379302	-104.0589225	71.87	0.00	0.00	0.00
3,700.00	13.78	105.13	3,635.89	-75.87	530.28	414,016.64	626,297.13	32.1379129	-104.0588482	78.18	0.00	0.00	0.00
3,800.00	13.78	105.13	3,733.01	-82.09	553.28	414,010.42	626,320.13	32.1378956	-104.0587740	84.50	0.00	0.00	0.00
3,900.00	13.78	105.13	3,830.13	-88.31	576.28	414,004.20	626,343.13	32.1378784	-104.0586997	90.82	0.00	0.00	0.00
4,000.00	13.78	105.13	3,927.25	-94.53	599.28	413,997.98	626,366.13	32.1378611	-104.0586255	97.14	0.00	0.00	0.00
4,100.00	13.78	105.13	4,024.37	-100.75	622.28	413,991.76	626,389.13	32.1378439	-104.0585512	103.46	0.00	0.00	0.00
4,200.00	13.78	105.13	4,121.49	-106.97	645.28	413,985.54	626,412.13	32.1378266	-104.0584770	109.78	0.00	0.00	0.00
4,300.00	13.78	105.13	4,218.61	-113.19	668.28	413,979.32	626,435.13	32.1378094	-104.0584027	116.10	0.00	0.00	0.00
4,400.00	13.78	105.13	4,315.73	-119.40	691.28	413,973.11	626,458.13	32.1377921	-104.0583285	122.42	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.00	13.78	105.13	4,412.85	-125.62	714.28	413,966.89	626,481.13	32.1377749	-104.0582542	128.74	0.00	0.00	0.00
4,600.00	13.78	105.13	4,509.97	-131.84	737.28	413,960.67	626,504.13	32.1377576	-104.0581799	135.06	0.00	0.00	0.00
4,700.00	13.78	105.13	4,607.09	-138.06	760.28	413,954.45	626,527.13	32.1377403	-104.0581057	141.38	0.00	0.00	0.00
4,800.00	13.78	105.13	4,704.21	-144.28	783.28	413,948.23	626,550.13	32.1377231	-104.0580314	147.70	0.00	0.00	0.00
4,823.47	13.78	105.13	4,727.00	-145.74	788.68	413,946.77	626,555.53	32.1377190	-104.0580140	149.18	0.00	0.00	0.00
Brushy Canyon													
4,900.00	13.78	105.13	4,801.33	-150.50	806.28	413,942.01	626,573.13	32.1377058	-104.0579572	154.02	0.00	0.00	0.00
5,000.00	13.78	105.13	4,898.45	-156.72	829.28	413,935.79	626,596.13	32.1376886	-104.0578829	160.33	0.00	0.00	0.00
5,100.00	13.78	105.13	4,995.57	-162.94	852.28	413,929.57	626,619.13	32.1376713	-104.0578087	166.65	0.00	0.00	0.00
5,200.00	13.78	105.13	5,092.69	-169.16	875.28	413,923.35	626,642.13	32.1376541	-104.0577344	172.97	0.00	0.00	0.00
5,300.00	13.78	105.13	5,189.81	-175.37	898.28	413,917.14	626,665.13	32.1376368	-104.0576602	179.29	0.00	0.00	0.00
5,400.00	13.78	105.13	5,286.93	-181.59	921.28	413,910.92	626,688.13	32.1376195	-104.0575859	185.61	0.00	0.00	0.00
5,500.00	13.78	105.13	5,384.05	-187.81	944.28	413,904.70	626,711.13	32.1376023	-104.0575116	191.93	0.00	0.00	0.00
5,600.00	13.78	105.13	5,481.17	-194.03	967.28	413,898.48	626,734.13	32.1375850	-104.0574374	198.25	0.00	0.00	0.00
5,700.00	13.78	105.13	5,578.29	-200.25	990.28	413,892.26	626,757.13	32.1375678	-104.0573631	204.57	0.00	0.00	0.00
5,794.43	13.78	105.13	5,670.00	-206.12	1,012.00	413,886.39	626,778.85	32.1375515	-104.0572930	210.54	0.00	0.00	0.00
Lower Brushy Canyon													
5,800.00	13.78	105.13	5,675.41	-206.47	1,013.28	413,886.04	626,780.13	32.1375505	-104.0572889	210.89	0.00	0.00	0.00
5,900.00	13.78	105.13	5,772.53	-212.69	1,036.28	413,879.82	626,803.13	32.1375333	-104.0572146	217.21	0.00	0.00	0.00
6,000.00	13.78	105.13	5,869.65	-218.91	1,059.28	413,873.60	626,826.13	32.1375160	-104.0571404	223.53	0.00	0.00	0.00
6,100.00	13.78	105.13	5,966.77	-225.13	1,082.28	413,867.38	626,849.13	32.1374987	-104.0570661	229.85	0.00	0.00	0.00
6,200.00	13.78	105.13	6,063.89	-231.35	1,105.28	413,861.16	626,872.13	32.1374815	-104.0569919	236.17	0.00	0.00	0.00
6,300.00	13.78	105.13	6,161.01	-237.56	1,128.28	413,854.95	626,895.13	32.1374642	-104.0569176	242.48	0.00	0.00	0.00
6,400.00	13.78	105.13	6,258.13	-243.78	1,151.28	413,848.73	626,918.13	32.1374470	-104.0568433	248.80	0.00	0.00	0.00
6,478.12	13.78	105.13	6,334.00	-248.64	1,169.25	413,843.87	626,936.10	32.1374335	-104.0567853	253.74	0.00	0.00	0.00
Bone Spring Lime													
6,500.00	13.78	105.13	6,355.25	-250.00	1,174.28	413,842.51	626,941.13	32.1374297	-104.0567691	255.12	0.00	0.00	0.00
6,600.00	13.78	105.13	6,452.37	-256.22	1,197.28	413,836.29	626,964.13	32.1374125	-104.0566948	261.44	0.00	0.00	0.00
6,700.00	13.78	105.13	6,549.49	-262.44	1,220.28	413,830.07	626,987.13	32.1373952	-104.0566206	267.76	0.00	0.00	0.00
6,800.00	13.78	105.13	6,646.61	-268.66	1,243.28	413,823.85	627,010.13	32.1373779	-104.0565463	274.08	0.00	0.00	0.00
6,900.00	13.78	105.13	6,743.73	-274.88	1,266.28	413,817.63	627,033.13	32.1373607	-104.0564721	280.40	0.00	0.00	0.00
7,000.00	13.78	105.13	6,840.85	-281.10	1,289.28	413,811.41	627,056.13	32.1373434	-104.0563978	286.72	0.00	0.00	0.00
7,100.00	13.78	105.13	6,937.97	-287.32	1,312.28	413,805.19	627,079.13	32.1373262	-104.0563236	293.04	0.00	0.00	0.00
7,200.00	13.78	105.13	7,035.09	-293.53	1,335.29	413,798.98	627,102.14	32.1373089	-104.0562493	299.36	0.00	0.00	0.00
7,300.00	13.78	105.13	7,132.21	-299.75	1,358.29	413,792.76	627,125.14	32.1372916	-104.0561750	305.68	0.00	0.00	0.00
7,400.00	13.78	105.13	7,229.33	-305.97	1,381.29	413,786.54	627,148.14	32.1372744	-104.0561008	312.00	0.00	0.00	0.00
7,431.58	13.78	105.13	7,260.00	-307.94	1,388.55	413,784.57	627,155.40	32.1372689	-104.0560773	313.99	0.00	0.00	0.00
1st Bone Spring Sand													

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,500.00	13.78	105.13	7,326.45	-312.19	1,404.29	413,780.32	627,171.14	32.1372571	-104.0560265	318.32	0.00	0.00	0.00
7,600.00	13.78	105.13	7,423.57	-318.41	1,427.29	413,774.10	627,194.14	32.1372399	-104.0559523	324.63	0.00	0.00	0.00
7,700.27	13.78	105.13	7,520.96	-324.65	1,450.35	413,767.86	627,217.20	32.1372226	-104.0558778	330.97	0.00	0.00	0.00
Start Drop -2.00													
7,800.00	11.79	105.13	7,618.21	-330.41	1,471.65	413,762.10	627,238.50	32.1372066	-104.0558090	336.82	2.00	-2.00	0.00
7,900.00	9.79	105.13	7,716.43	-335.29	1,489.72	413,757.22	627,256.57	32.1371930	-104.0557507	341.79	2.00	-2.00	0.00
8,000.00	7.79	105.13	7,815.25	-339.28	1,504.47	413,753.23	627,271.32	32.1371820	-104.0557031	345.84	2.00	-2.00	0.00
8,100.00	5.79	105.13	7,914.55	-342.37	1,515.88	413,750.14	627,282.73	32.1371734	-104.0556662	348.98	2.00	-2.00	0.00
8,129.59	5.20	105.13	7,944.00	-343.11	1,518.62	413,749.40	627,285.47	32.1371713	-104.0556574	349.73	2.00	-2.00	0.00
2nd Bone Spring Sand													
8,200.00	3.79	105.13	8,014.19	-344.55	1,523.94	413,747.96	627,290.79	32.1371673	-104.0556402	351.19	2.00	-2.00	0.00
8,300.00	1.79	105.13	8,114.07	-345.82	1,528.64	413,746.69	627,295.49	32.1371638	-104.0556251	352.48	2.00	-2.00	0.00
8,389.47	0.00	0.00	8,203.52	-346.18	1,529.99	413,746.33	627,296.84	32.1371628	-104.0556207	352.85	2.00	-2.00	0.00
Start Build 10.00													
8,400.00	1.05	179.75	8,214.05	-346.28	1,529.99	413,746.23	627,296.84	32.1371625	-104.0556207	352.95	10.00	10.00	0.00
8,450.00	6.05	179.75	8,263.94	-349.37	1,530.00	413,743.14	627,296.85	32.1371540	-104.0556207	356.05	10.00	10.00	0.00
8,490.47	10.10	179.75	8,304.00	-355.06	1,530.03	413,737.45	627,296.88	32.1371384	-104.0556206	361.73	10.00	10.00	0.00
3rd Bone Spring Carb													
8,500.00	11.05	179.75	8,313.37	-356.81	1,530.04	413,735.70	627,296.89	32.1371336	-104.0556206	363.48	10.00	10.00	0.00
8,550.00	16.05	179.75	8,361.96	-368.52	1,530.09	413,723.99	627,296.94	32.1371014	-104.0556206	375.20	10.00	10.00	0.00
8,600.00	21.05	179.75	8,409.35	-384.43	1,530.16	413,708.08	627,297.01	32.1370577	-104.0556205	391.10	10.00	10.00	0.00
8,650.00	26.05	179.75	8,455.17	-404.40	1,530.24	413,688.11	627,297.09	32.1370028	-104.0556204	411.07	10.00	10.00	0.00
8,700.00	31.05	179.75	8,499.07	-428.29	1,530.35	413,664.22	627,297.20	32.1369371	-104.0556202	434.97	10.00	10.00	0.00
8,750.00	36.05	179.75	8,540.73	-455.92	1,530.47	413,636.59	627,297.32	32.1368611	-104.0556201	462.59	10.00	10.00	0.00
8,800.00	41.05	179.75	8,579.82	-487.07	1,530.60	413,605.44	627,297.45	32.1367755	-104.0556199	493.74	10.00	10.00	0.00
8,850.00	46.05	179.75	8,616.04	-521.51	1,530.76	413,571.00	627,297.61	32.1366808	-104.0556197	528.19	10.00	10.00	0.00
8,900.00	51.05	179.75	8,649.13	-558.98	1,530.92	413,533.53	627,297.77	32.1365778	-104.0556195	565.65	10.00	10.00	0.00
8,950.00	56.05	179.75	8,678.82	-599.18	1,531.09	413,493.33	627,297.94	32.1364673	-104.0556192	605.86	10.00	10.00	0.00
8,964.94	57.55	179.75	8,687.00	-611.68	1,531.15	413,480.83	627,298.00	32.1364330	-104.0556192	618.36	10.00	10.00	0.00
Harkey SS													
9,000.00	61.05	179.75	8,704.90	-641.83	1,531.28	413,450.68	627,298.13	32.1363501	-104.0556190	648.50	10.00	10.00	0.00
9,050.00	66.05	179.75	8,727.16	-686.58	1,531.48	413,405.93	627,298.33	32.1362271	-104.0556187	693.26	10.00	10.00	0.00
9,100.00	71.05	179.75	8,745.44	-733.10	1,531.68	413,359.41	627,298.53	32.1360992	-104.0556185	739.78	10.00	10.00	0.00
9,139.47	75.00	179.75	8,756.95	-770.84	1,531.84	413,321.67	627,298.69	32.1359954	-104.0556183	777.52	10.00	10.00	0.00
Start DLS 5.00 TFO -0.01													
9,200.00	78.03	179.75	8,771.07	-829.70	1,532.10	413,262.81	627,298.95	32.1358336	-104.0556179	836.38	5.00	5.00	0.00
9,300.00	83.03	179.75	8,787.52	-928.30	1,532.53	413,164.21	627,299.38	32.1355626	-104.0556173	934.98	5.00	5.00	0.00
9,400.00	88.03	179.75	8,795.32	-1,027.97	1,532.97	413,064.54	627,299.82	32.1352886	-104.0556168	1,034.65	5.00	5.00	0.00
9,438.06	89.93	179.75	8,796.00	-1,066.02	1,533.14	413,026.49	627,299.99	32.1351840	-104.0556165	1,072.70	5.00	5.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Harkey A LZ													
9,439.47	90.00	179.75	8,796.00	-1,067.42	1,533.14	413,025.09	627,299.99	32.1351802	-104.0556165	1,074.10	5.00	5.00	0.00
Start 3769.64 hold at 9439.47 MD													
9,500.00	90.00	179.75	8,796.00	-1,127.96	1,533.41	412,964.55	627,300.26	32.1350137	-104.0556162	1,134.64	0.00	0.00	0.00
9,600.00	90.00	179.75	8,796.00	-1,227.96	1,533.85	412,864.55	627,300.70	32.1347389	-104.0556156	1,234.64	0.00	0.00	0.00
9,700.00	90.00	179.75	8,796.00	-1,327.96	1,534.29	412,764.55	627,301.14	32.1344640	-104.0556150	1,334.64	0.00	0.00	0.00
9,800.00	90.00	179.75	8,796.00	-1,427.95	1,534.74	412,664.56	627,301.59	32.1341891	-104.0556144	1,434.64	0.00	0.00	0.00
9,900.00	90.00	179.75	8,796.00	-1,527.95	1,535.18	412,564.56	627,302.03	32.1339142	-104.0556138	1,534.64	0.00	0.00	0.00
10,000.00	90.00	179.75	8,796.00	-1,627.95	1,535.62	412,464.56	627,302.47	32.1336393	-104.0556132	1,634.64	0.00	0.00	0.00
10,100.00	90.00	179.75	8,796.00	-1,727.95	1,536.06	412,364.56	627,302.91	32.1333644	-104.0556126	1,734.64	0.00	0.00	0.00
10,200.00	90.00	179.75	8,796.00	-1,827.95	1,536.50	412,264.56	627,303.35	32.1330895	-104.0556120	1,834.64	0.00	0.00	0.00
10,300.00	90.00	179.75	8,796.00	-1,927.95	1,536.94	412,164.56	627,303.79	32.1328146	-104.0556114	1,934.64	0.00	0.00	0.00
10,400.00	90.00	179.75	8,796.00	-2,027.95	1,537.38	412,064.56	627,304.23	32.1325397	-104.0556108	2,034.64	0.00	0.00	0.00
10,500.00	90.00	179.75	8,796.00	-2,127.95	1,537.82	411,964.56	627,304.67	32.1322648	-104.0556102	2,134.64	0.00	0.00	0.00
10,600.00	90.00	179.75	8,796.00	-2,227.95	1,538.27	411,864.56	627,305.12	32.1319899	-104.0556096	2,234.64	0.00	0.00	0.00
10,700.00	90.00	179.75	8,796.00	-2,327.95	1,538.71	411,764.56	627,305.56	32.1317150	-104.0556090	2,334.64	0.00	0.00	0.00
10,800.00	90.00	179.75	8,796.00	-2,427.94	1,539.15	411,664.57	627,306.00	32.1314402	-104.0556085	2,434.64	0.00	0.00	0.00
10,900.00	90.00	179.75	8,796.00	-2,527.94	1,539.59	411,564.57	627,306.44	32.1311653	-104.0556079	2,534.64	0.00	0.00	0.00
11,000.00	90.00	179.75	8,796.00	-2,627.94	1,540.03	411,464.57	627,306.88	32.1308904	-104.0556073	2,634.64	0.00	0.00	0.00
11,100.00	90.00	179.75	8,796.00	-2,727.94	1,540.47	411,364.57	627,307.32	32.1306155	-104.0556067	2,734.64	0.00	0.00	0.00
11,200.00	90.00	179.75	8,796.00	-2,827.94	1,540.91	411,264.57	627,307.76	32.1303406	-104.0556061	2,834.64	0.00	0.00	0.00
11,300.00	90.00	179.75	8,796.00	-2,927.94	1,541.36	411,164.57	627,308.21	32.1300657	-104.0556055	2,934.64	0.00	0.00	0.00
11,400.00	90.00	179.75	8,796.00	-3,027.94	1,541.80	411,064.57	627,308.65	32.1297908	-104.0556049	3,034.64	0.00	0.00	0.00
11,500.00	90.00	179.75	8,796.00	-3,127.94	1,542.24	410,964.57	627,309.09	32.1295159	-104.0556043	3,134.64	0.00	0.00	0.00
11,600.00	90.00	179.75	8,796.00	-3,227.94	1,542.68	410,864.57	627,309.53	32.1292410	-104.0556037	3,234.64	0.00	0.00	0.00
11,700.00	90.00	179.75	8,796.00	-3,327.94	1,543.12	410,764.57	627,309.97	32.1289661	-104.0556031	3,334.64	0.00	0.00	0.00
11,800.00	90.00	179.75	8,796.00	-3,427.93	1,543.56	410,664.58	627,310.41	32.1286912	-104.0556025	3,434.64	0.00	0.00	0.00
11,900.00	90.00	179.75	8,796.00	-3,527.93	1,544.00	410,564.58	627,310.85	32.1284163	-104.0556019	3,534.64	0.00	0.00	0.00
12,000.00	90.00	179.75	8,796.00	-3,627.93	1,544.44	410,464.58	627,311.29	32.1281414	-104.0556013	3,634.64	0.00	0.00	0.00
12,100.00	90.00	179.75	8,796.00	-3,727.93	1,544.89	410,364.58	627,311.74	32.1278666	-104.0556007	3,734.64	0.00	0.00	0.00
12,200.00	90.00	179.75	8,796.00	-3,827.93	1,545.33	410,264.58	627,312.18	32.1275917	-104.0556002	3,834.64	0.00	0.00	0.00
12,300.00	90.00	179.75	8,796.00	-3,927.93	1,545.77	410,164.58	627,312.62	32.1273168	-104.0555996	3,934.64	0.00	0.00	0.00
12,400.00	90.00	179.75	8,796.00	-4,027.93	1,546.21	410,064.58	627,313.06	32.1270419	-104.0555990	4,034.64	0.00	0.00	0.00
12,500.00	90.00	179.75	8,796.00	-4,127.93	1,546.65	409,964.58	627,313.50	32.1267670	-104.0555984	4,134.64	0.00	0.00	0.00
12,600.00	90.00	179.75	8,796.00	-4,227.93	1,547.09	409,864.58	627,313.94	32.1264921	-104.0555978	4,234.64	0.00	0.00	0.00
12,700.00	90.00	179.75	8,796.00	-4,327.93	1,547.53	409,764.58	627,314.38	32.1262172	-104.0555972	4,334.64	0.00	0.00	0.00
12,800.00	90.00	179.75	8,796.00	-4,427.93	1,547.97	409,664.58	627,314.82	32.1259423	-104.0555966	4,434.64	0.00	0.00	0.00
12,900.00	90.00	179.75	8,796.00	-4,527.92	1,548.42	409,564.59	627,315.27	32.1256674	-104.0555960	4,534.64	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,000.00	90.00	179.75	8,796.00	-4,627.92	1,548.86	409,464.59	627,315.71	32.1253925	-104.0555954	4,634.64	0.00	0.00	0.00
13,100.00	90.00	179.75	8,796.00	-4,727.92	1,549.30	409,364.59	627,316.15	32.1251176	-104.0555948	4,734.64	0.00	0.00	0.00
13,209.11	90.00	179.75	8,796.00	-4,837.03	1,549.78	409,255.48	627,316.63	32.1248177	-104.0555942	4,843.75	0.00	0.00	0.00
Start DLS 9.35 TFO 270.00													
13,250.00	90.00	175.92	8,796.00	-4,877.88	1,551.32	409,214.63	627,318.17	32.1247054	-104.0555895	4,884.61	9.35	0.00	-9.35
13,300.00	90.00	171.25	8,796.00	-4,927.56	1,556.91	409,164.95	627,323.76	32.1245688	-104.0555719	4,934.30	9.35	0.00	-9.35
13,350.00	90.00	166.57	8,796.00	-4,976.61	1,566.52	409,115.90	627,333.37	32.1244339	-104.0555413	4,983.40	9.35	0.00	-9.35
13,400.00	90.00	161.90	8,796.00	-5,024.72	1,580.10	409,067.79	627,346.95	32.1243016	-104.0554978	5,031.56	9.35	0.00	-9.35
13,450.00	90.00	157.22	8,796.00	-5,071.56	1,597.56	409,020.95	627,364.41	32.1241727	-104.0554418	5,078.48	9.35	0.00	-9.35
13,500.00	90.00	152.55	8,796.00	-5,116.82	1,618.77	408,975.69	627,385.62	32.1240481	-104.0553736	5,123.83	9.35	0.00	-9.35
13,550.00	90.00	147.87	8,796.00	-5,160.20	1,643.60	408,932.31	627,410.45	32.1239287	-104.0552938	5,167.32	9.35	0.00	-9.35
13,600.00	90.00	143.20	8,796.00	-5,201.41	1,671.89	408,891.10	627,438.74	32.1238152	-104.0552028	5,208.66	9.35	0.00	-9.35
13,650.00	90.00	138.52	8,796.00	-5,240.18	1,703.44	408,852.33	627,470.29	32.1237084	-104.0551012	5,247.56	9.35	0.00	-9.35
13,700.00	90.00	133.85	8,796.00	-5,276.25	1,738.05	408,816.26	627,504.90	32.1236090	-104.0549897	5,283.78	9.35	0.00	-9.35
13,735.89	90.00	130.49	8,796.00	-5,300.34	1,764.64	408,792.17	627,531.49	32.1235426	-104.0549040	5,307.99	9.35	0.00	-9.35
330 No-Perf Entry : 13735.89' MD													
13,750.00	90.00	129.17	8,796.00	-5,309.38	1,775.48	408,783.13	627,542.33	32.1235177	-104.0548690	5,317.08	9.35	0.00	-9.35
13,800.00	90.00	124.50	8,796.00	-5,339.35	1,815.49	408,753.16	627,582.34	32.1234350	-104.0547401	5,347.22	9.35	0.00	-9.35
13,850.00	90.00	119.82	8,796.00	-5,365.96	1,857.80	408,726.55	627,624.65	32.1233615	-104.0546036	5,374.01	9.35	0.00	-9.35
13,900.00	90.00	115.15	8,796.00	-5,389.03	1,902.15	408,703.48	627,669.00	32.1232978	-104.0544605	5,397.28	9.35	0.00	-9.35
13,950.00	90.00	110.47	8,796.00	-5,408.41	1,948.22	408,684.10	627,715.07	32.1232442	-104.0543119	5,416.86	9.35	0.00	-9.35
14,000.00	90.00	105.80	8,796.00	-5,423.97	1,995.72	408,668.54	627,762.57	32.1232011	-104.0541586	5,432.62	9.35	0.00	-9.35
14,050.00	90.00	101.12	8,796.00	-5,435.60	2,044.34	408,656.91	627,811.19	32.1231688	-104.0540016	5,444.47	9.35	0.00	-9.35
14,100.00	90.00	96.45	8,796.00	-5,443.24	2,093.74	408,649.27	627,860.59	32.1231474	-104.0538421	5,452.32	9.35	0.00	-9.35
14,150.00	90.00	91.77	8,796.00	-5,446.82	2,143.59	408,645.69	627,910.44	32.1231372	-104.0536811	5,456.12	9.35	0.00	-9.35
14,200.00	90.00	87.10	8,796.00	-5,446.33	2,193.58	408,646.18	627,960.43	32.1231382	-104.0535196	5,455.85	9.35	0.00	-9.35
14,250.00	90.00	82.42	8,796.00	-5,441.77	2,243.36	408,650.74	628,010.21	32.1231504	-104.0533588	5,451.50	9.35	0.00	-9.35
14,300.00	90.00	77.75	8,796.00	-5,433.16	2,292.60	408,659.35	628,059.45	32.1231737	-104.0531997	5,443.11	9.35	0.00	-9.35
14,350.00	90.00	73.07	8,796.00	-5,420.57	2,340.97	408,671.94	628,107.82	32.1232080	-104.0530433	5,430.73	9.35	0.00	-9.35
14,400.00	90.00	68.40	8,796.00	-5,404.08	2,388.16	408,688.43	628,155.01	32.1232530	-104.0528907	5,414.45	9.35	0.00	-9.35
14,450.00	90.00	63.72	8,796.00	-5,383.80	2,433.84	408,708.71	628,200.69	32.1233084	-104.0527430	5,394.36	9.35	0.00	-9.35
14,500.00	90.00	59.05	8,796.00	-5,359.86	2,477.73	408,732.65	628,244.58	32.1233739	-104.0526011	5,370.62	9.35	0.00	-9.35
14,550.00	90.00	54.37	8,796.00	-5,332.42	2,519.51	408,760.09	628,286.36	32.1234490	-104.0524658	5,343.36	9.35	0.00	-9.35
14,600.00	90.00	49.70	8,796.00	-5,301.67	2,558.92	408,790.84	628,325.77	32.1235332	-104.0523383	5,312.79	9.35	0.00	-9.35
14,610.56	90.00	48.71	8,796.00	-5,294.77	2,566.91	408,797.74	628,333.76	32.1235522	-104.0523124	5,305.92	9.35	0.00	-9.35
330 No-Perf Exit : 14610.56' MD													
14,650.00	90.00	45.02	8,796.00	-5,267.81	2,595.69	408,824.70	628,362.54	32.1236261	-104.0522192	5,279.09	9.35	0.00	-9.35
14,700.00	90.00	40.35	8,796.00	-5,231.07	2,629.58	408,861.44	628,396.43	32.1237268	-104.0521094	5,242.49	9.35	0.00	-9.35

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,750.00	90.00	35.67	8,796.00	-5,191.69	2,660.36	408,900.82	628,427.21	32.1238349	-104.0520097	5,203.24	9.35	0.00	-9.35
14,800.00	90.00	31.00	8,796.00	-5,149.92	2,687.83	408,942.59	628,454.68	32.1239495	-104.0519206	5,161.60	9.35	0.00	-9.35
14,850.00	90.00	26.32	8,796.00	-5,106.06	2,711.81	408,986.45	628,478.66	32.1240699	-104.0518428	5,117.85	9.35	0.00	-9.35
14,900.00	90.00	21.65	8,796.00	-5,060.39	2,732.13	409,032.12	628,498.98	32.1241953	-104.0517767	5,072.27	9.35	0.00	-9.35
14,950.00	90.00	16.97	8,796.00	-5,013.22	2,748.66	409,079.29	628,515.51	32.1243248	-104.0517230	5,025.17	9.35	0.00	-9.35
15,000.00	90.00	12.30	8,796.00	-4,964.86	2,761.29	409,127.65	628,528.14	32.1244577	-104.0516817	4,976.86	9.35	0.00	-9.35
15,050.00	90.00	7.62	8,796.00	-4,915.62	2,769.94	409,176.89	628,536.79	32.1245929	-104.0516534	4,927.66	9.35	0.00	-9.35
15,099.11	90.00	3.03	8,796.00	-4,866.74	2,774.49	409,225.77	628,541.34	32.1247273	-104.0516383	4,878.80	9.35	0.00	-9.35
Start DLS 2.00 TFO -90.00													
15,200.00	90.00	1.01	8,796.00	-4,765.92	2,778.06	409,326.59	628,544.91	32.1250044	-104.0516259	4,777.99	2.00	0.00	-2.00
15,263.03	90.00	359.75	8,796.00	-4,702.89	2,778.48	409,389.62	628,545.33	32.1251777	-104.0516240	4,714.97	2.00	0.00	-2.00
Start 4371.38 hold at 15263.03 MD													
15,300.00	90.00	359.75	8,796.00	-4,665.92	2,778.32	409,426.59	628,545.17	32.1252793	-104.0516242	4,678.00	0.00	0.00	0.00
15,400.00	90.00	359.75	8,796.00	-4,565.92	2,777.89	409,526.59	628,544.74	32.1255542	-104.0516247	4,578.00	0.00	0.00	0.00
15,500.00	90.00	359.75	8,796.00	-4,465.92	2,777.46	409,626.59	628,544.31	32.1258291	-104.0516253	4,478.00	0.00	0.00	0.00
15,600.00	90.00	359.75	8,796.00	-4,365.92	2,777.03	409,726.59	628,543.88	32.1261040	-104.0516258	4,378.00	0.00	0.00	0.00
15,700.00	90.00	359.75	8,796.00	-4,265.92	2,776.60	409,826.59	628,543.45	32.1263789	-104.0516264	4,278.00	0.00	0.00	0.00
15,800.00	90.00	359.75	8,796.00	-4,165.92	2,776.17	409,926.59	628,543.02	32.1266538	-104.0516269	4,178.00	0.00	0.00	0.00
15,900.00	90.00	359.75	8,796.00	-4,065.93	2,775.74	410,026.58	628,542.59	32.1269287	-104.0516275	4,078.00	0.00	0.00	0.00
16,000.00	90.00	359.75	8,796.00	-3,965.93	2,775.31	410,126.58	628,542.16	32.1272035	-104.0516280	3,978.00	0.00	0.00	0.00
16,100.00	90.00	359.75	8,796.00	-3,865.93	2,774.88	410,226.58	628,541.73	32.1274784	-104.0516286	3,878.00	0.00	0.00	0.00
16,200.00	90.00	359.75	8,796.00	-3,765.93	2,774.45	410,326.58	628,541.30	32.1277533	-104.0516291	3,778.00	0.00	0.00	0.00
16,300.00	90.00	359.75	8,796.00	-3,665.93	2,774.02	410,426.58	628,540.87	32.1280282	-104.0516296	3,678.00	0.00	0.00	0.00
16,400.00	90.00	359.75	8,796.00	-3,565.93	2,773.59	410,526.58	628,540.44	32.1283031	-104.0516302	3,578.00	0.00	0.00	0.00
16,500.00	90.00	359.75	8,796.00	-3,465.93	2,773.16	410,626.58	628,540.01	32.1285780	-104.0516307	3,478.00	0.00	0.00	0.00
16,600.00	90.00	359.75	8,796.00	-3,365.93	2,772.73	410,726.58	628,539.58	32.1288529	-104.0516313	3,378.00	0.00	0.00	0.00
16,700.00	90.00	359.75	8,796.00	-3,265.93	2,772.30	410,826.58	628,539.15	32.1291278	-104.0516318	3,278.00	0.00	0.00	0.00
16,800.00	90.00	359.75	8,796.00	-3,165.93	2,771.87	410,926.58	628,538.72	32.1294027	-104.0516324	3,178.00	0.00	0.00	0.00
16,900.00	90.00	359.75	8,796.00	-3,065.93	2,771.44	411,026.58	628,538.29	32.1296776	-104.0516329	3,078.00	0.00	0.00	0.00
17,000.00	90.00	359.75	8,796.00	-2,965.94	2,771.01	411,126.57	628,537.86	32.1299525	-104.0516334	2,978.00	0.00	0.00	0.00
17,100.00	90.00	359.75	8,796.00	-2,865.94	2,770.58	411,226.57	628,537.43	32.1302274	-104.0516340	2,878.00	0.00	0.00	0.00
17,200.00	90.00	359.75	8,796.00	-2,765.94	2,770.15	411,326.57	628,537.00	32.1305023	-104.0516345	2,778.00	0.00	0.00	0.00
17,300.00	90.00	359.75	8,796.00	-2,665.94	2,769.72	411,426.57	628,536.57	32.1307771	-104.0516351	2,678.00	0.00	0.00	0.00
17,400.00	90.00	359.75	8,796.00	-2,565.94	2,769.29	411,526.57	628,536.14	32.1310520	-104.0516356	2,578.00	0.00	0.00	0.00
17,500.00	90.00	359.75	8,796.00	-2,465.94	2,768.86	411,626.57	628,535.71	32.1313269	-104.0516362	2,478.00	0.00	0.00	0.00
17,600.00	90.00	359.75	8,796.00	-2,365.94	2,768.43	411,726.57	628,535.28	32.1316018	-104.0516367	2,378.00	0.00	0.00	0.00
17,700.00	90.00	359.75	8,796.00	-2,265.94	2,768.00	411,826.57	628,534.85	32.1318767	-104.0516373	2,278.00	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,800.00	90.00	359.75	8,796.00	-2,165.94	2,767.57	411,926.57	628,534.42	32.1321516	-104.0516378	2,178.00	0.00	0.00	0.00
17,900.00	90.00	359.75	8,796.00	-2,065.94	2,767.14	412,026.57	628,533.99	32.1324265	-104.0516383	2,078.00	0.00	0.00	0.00
18,000.00	90.00	359.75	8,796.00	-1,965.95	2,766.71	412,126.57	628,533.56	32.1327014	-104.0516389	1,978.00	0.00	0.00	0.00
18,100.00	90.00	359.75	8,796.00	-1,865.95	2,766.29	412,226.56	628,533.14	32.1329763	-104.0516394	1,878.00	0.00	0.00	0.00
18,200.00	90.00	359.75	8,796.00	-1,765.95	2,765.86	412,326.56	628,532.71	32.1332512	-104.0516400	1,778.00	0.00	0.00	0.00
18,300.00	90.00	359.75	8,796.00	-1,665.95	2,765.43	412,426.56	628,532.28	32.1335261	-104.0516405	1,678.00	0.00	0.00	0.00
18,400.00	90.00	359.75	8,796.00	-1,565.95	2,765.00	412,526.56	628,531.85	32.1338010	-104.0516411	1,578.00	0.00	0.00	0.00
18,500.00	90.00	359.75	8,796.00	-1,465.95	2,764.57	412,626.56	628,531.42	32.1340758	-104.0516416	1,478.00	0.00	0.00	0.00
18,600.00	90.00	359.75	8,796.00	-1,365.95	2,764.14	412,726.56	628,530.99	32.1343507	-104.0516421	1,378.00	0.00	0.00	0.00
18,700.00	90.00	359.75	8,796.00	-1,265.95	2,763.71	412,826.56	628,530.56	32.1346256	-104.0516427	1,278.00	0.00	0.00	0.00
18,800.00	90.00	359.75	8,796.00	-1,165.95	2,763.28	412,926.56	628,530.13	32.1349005	-104.0516432	1,178.00	0.00	0.00	0.00
18,900.00	90.00	359.75	8,796.00	-1,065.95	2,762.85	413,026.56	628,529.70	32.1351754	-104.0516438	1,078.00	0.00	0.00	0.00
19,000.00	90.00	359.75	8,796.00	-965.95	2,762.42	413,126.56	628,529.27	32.1354503	-104.0516443	978.00	0.00	0.00	0.00
19,100.00	90.00	359.75	8,796.00	-865.96	2,761.99	413,226.55	628,528.84	32.1357252	-104.0516449	878.00	0.00	0.00	0.00
19,200.00	90.00	359.75	8,796.00	-765.96	2,761.56	413,326.55	628,528.41	32.1360001	-104.0516454	778.00	0.00	0.00	0.00
19,300.00	90.00	359.75	8,796.00	-665.96	2,761.13	413,426.55	628,527.98	32.1362750	-104.0516460	678.00	0.00	0.00	0.00
19,400.00	90.00	359.75	8,796.00	-565.96	2,760.70	413,526.55	628,527.55	32.1365499	-104.0516465	578.00	0.00	0.00	0.00
19,500.00	90.00	359.75	8,796.00	-465.96	2,760.27	413,626.55	628,527.12	32.1368248	-104.0516470	478.00	0.00	0.00	0.00
19,600.00	90.00	359.75	8,796.00	-365.96	2,759.84	413,726.55	628,526.69	32.1370997	-104.0516476	378.00	0.00	0.00	0.00
19,634.41	90.00	359.75	8,796.00	-331.55	2,759.69	413,760.96	628,526.54	32.1371942	-104.0516478	343.59	0.00	0.00	0.00
TD at 19634.41													

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

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
Pk Crv 2 (Riverbend Fec	0.00	0.00	0.00	-5,447.58	2,168.93	408,644.93	627,935.78	32.1231349	-104.0535993
- plan misses target center by 5863.48usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
NPZ 1 (Riverbend Feder	0.00	0.00	0.00	-5,300.75	1,765.85	408,791.76	627,532.70	32.1235414	-104.0549001
- plan misses target center by 5587.14usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
FTP (Riverbend Federal	0.00	0.00	0.00	-346.18	1,529.99	413,746.33	627,296.84	32.1371628	-104.0556207
- plan misses target center by 1568.67usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LP Crv 2 (Riverbend Fec	0.00	0.00	0.00	-4,828.43	2,779.48	409,264.08	628,546.33	32.1248326	-104.0516218
- plan misses target center by 5571.29usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LTP (Riverbend Federal	0.00	0.00	0.00	-331.55	2,759.69	413,760.96	628,526.54	32.1371942	-104.0516478
- plan misses target center by 2779.53usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
NPZ 2 (Riverbend Feder	0.00	0.00	0.00	-5,295.13	2,569.91	408,797.38	628,336.76	32.1235512	-104.0523027
- plan misses target center by 5885.82usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
KOP 2 (Riverbend Feder	0.00	0.00	0.00	-4,837.03	1,549.78	409,255.48	627,316.63	32.1248177	-104.0555942
- plan misses target center by 5079.24usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LPP (Riverbend Federal	0.00	0.00	0.00	-1,560.33	2,765.10	412,532.18	628,531.95	32.1338164	-104.0516407
- plan misses target center by 3174.97usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,092.57	1,091.00	Rustler			
1,574.58	1,570.00	Top Salt			
2,388.34	2,362.00	Base Salt/Lamar			
2,581.92	2,550.00	Top Delaware Sands/Bell Canyon			
3,482.86	3,425.00	Cherry Canyon			
4,823.47	4,727.00	Brushy Canyon			
5,794.43	5,670.00	Lower Brushy Canyon			
6,478.12	6,334.00	Bone Spring Lime			
7,431.58	7,260.00	1st Bone Spring Sand			
8,129.59	7,944.00	2nd Bone Spring Sand			
8,490.47	8,304.00	3rd Bone Spring Carb			
8,964.94	8,687.00	Harkey SS			
9,438.06	8,796.00	Harkey A LZ			

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Well:	Riverbend 14 Federal Com 8H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
500	500	0	0	Start Build 2.00
750	750	11	0	Start 251.27 hold at 750.00 MD
1001	1000	33	0	Start DLS 2.00 TFO 122.51
1793	1783	43	92	Start 5907.61 hold at 1792.67 MD
7700	7521	-325	1450	Start Drop -2.00
8389	8204	-346	1530	Start Build 10.00
9139	8757	-771	1532	Start DLS 5.00 TFO -0.01
9439	8796	-1067	1533	Start 3769.64 hold at 9439.47 MD
13,209	8796	-4837	1550	Start DLS 9.35 TFO 270.00
13,736	8796	-5300	1765	330 No-Perf Entry : 13735.89' MD
14,611	8796	-5295	2567	330 No-Perf Exit : 14610.56' MD
15,099	8796	-4867	2774	Start DLS 2.00 TFO -90.00
15,263	8796	-4703	2778	Start 4371.38 hold at 15263.03 MD
19,634	8796	-332	2760	TD at 19634.41

Checked By: _____ Approved By: _____ Date: _____

COMPANY	Coterra Energy
FIELD	Eddy County, NM (NAD 83)
SITE	Riverbend 14 Federal Com
WELL	Riverbend 14 Federal Com 8H
WELLPATH	OH
DESIGN	Plan 1
DEPTHUNT	(usft)

WELL INFO	
MAP DATUM	North American Datum 1983
MAP SYSTEM	US State Plane 1983
MAP ZONE	New Mexico Eastern Zone
WELL LAT	32.138125
WELL LON	-104.060561
WELL EW MAI	625766.85
WELL NS MAP	414092.51
CONVERGENC	0.15
MAGMODEL	HDGM2025
DECLINATION	6.45
NORTH REF	Grid
GROUND ELEV	2935
KB ELEVN	2958
VS AZI	179.75

SURVEY PROGRAM

1 0.00 - 19634.41 PLAN 1 : MWD+IFR1+MS

SURVEY LIST

Measured Dep	Inclination	Azimuth	Course Length	True Vertical D	SubSea TVD	Local N/-S
MD	INC	AZI	CL	TVD	SSTVD	NS
0.00	0.00	0.00	0.00	0.00	2958.00	0.00
100.00	0.00	0.00	100.00	100.00	2858.00	0.00
200.00	0.00	0.00	100.00	200.00	2758.00	0.00
300.00	0.00	0.00	100.00	300.00	2658.00	0.00
400.00	0.00	0.00	100.00	400.00	2558.00	0.00
500.00	0.00	0.00	100.00	500.00	2458.00	0.00
600.00	2.00	0.00	100.00	599.98	2358.02	1.75
700.00	4.00	0.00	100.00	699.84	2258.16	6.98
750.00	5.00	0.00	50.00	749.68	2208.32	10.90
800.00	5.00	0.00	50.00	799.49	2158.51	15.26
900.00	5.00	0.00	100.00	899.11	2058.89	23.98
1001.27	5.00	0.00	101.27	1000.00	1958.00	32.80
1100.00	4.28	22.94	98.73	1098.41	1859.59	40.49
1200.00	4.41	49.55	100.00	1198.13	1759.87	46.42

1300.00	5.34	70.58	100.00	1297.78	1660.22	50.46
1400.00	6.75	84.13	100.00	1397.23	1560.77	52.61
1500.00	8.41	92.71	100.00	1496.35	1461.65	52.86
1600.00	10.19	98.40	100.00	1595.04	1362.96	51.23
1700.00	12.03	102.39	100.00	1693.16	1264.84	47.70
1792.67	13.78	105.13	92.67	1783.48	1174.52	42.74
1800.00	13.78	105.13	7.33	1790.60	1167.40	42.29
1900.00	13.78	105.13	100.00	1887.72	1070.28	36.07
2000.00	13.78	105.13	100.00	1984.84	973.16	29.85
2100.00	13.78	105.13	100.00	2081.96	876.04	23.63
2200.00	13.78	105.13	100.00	2179.08	778.92	17.41
2300.00	13.78	105.13	100.00	2276.20	681.80	11.19
2400.00	13.78	105.13	100.00	2373.32	584.68	4.97
2500.00	13.78	105.13	100.00	2470.44	487.56	-1.25
2600.00	13.78	105.13	100.00	2567.56	390.44	-7.46
2700.00	13.78	105.13	100.00	2664.68	293.32	-13.68
2800.00	13.78	105.13	100.00	2761.80	196.20	-19.90
2900.00	13.78	105.13	100.00	2858.93	99.08	-26.12
3000.00	13.78	105.13	100.00	2956.05	1.96	-32.34
3100.00	13.78	105.13	100.00	3053.17	-95.17	-38.56
3200.00	13.78	105.13	100.00	3150.29	-192.29	-44.78
3300.00	13.78	105.13	100.00	3247.41	-289.41	-51.00
3400.00	13.78	105.13	100.00	3344.53	-386.53	-57.22
3500.00	13.78	105.13	100.00	3441.65	-483.65	-63.43
3600.00	13.78	105.13	100.00	3538.77	-580.77	-69.65
3700.00	13.78	105.13	100.00	3635.89	-677.89	-75.87
3800.00	13.78	105.13	100.00	3733.01	-775.01	-82.09
3900.00	13.78	105.13	100.00	3830.13	-872.13	-88.31
4000.00	13.78	105.13	100.00	3927.25	-969.25	-94.53
4100.00	13.78	105.13	100.00	4024.37	-1066.37	-100.75
4200.00	13.78	105.13	100.00	4121.49	-1163.49	-106.97
4300.00	13.78	105.13	100.00	4218.61	-1260.61	-113.19
4400.00	13.78	105.13	100.00	4315.73	-1357.73	-119.40
4500.00	13.78	105.13	100.00	4412.85	-1454.85	-125.62
4600.00	13.78	105.13	100.00	4509.97	-1551.97	-131.84
4700.00	13.78	105.13	100.00	4607.09	-1649.09	-138.06
4800.00	13.78	105.13	100.00	4704.21	-1746.21	-144.28
4900.00	13.78	105.13	100.00	4801.33	-1843.33	-150.50
5000.00	13.78	105.13	100.00	4898.45	-1940.45	-156.72
5100.00	13.78	105.13	100.00	4995.57	-2037.57	-162.94
5200.00	13.78	105.13	100.00	5092.69	-2134.69	-169.16
5300.00	13.78	105.13	100.00	5189.81	-2231.81	-175.38
5400.00	13.78	105.13	100.00	5286.93	-2328.93	-181.59
5500.00	13.78	105.13	100.00	5384.05	-2426.05	-187.81

5600.00	13.78	105.13	100.00	5481.17	-2523.17	-194.03
5700.00	13.78	105.13	100.00	5578.29	-2620.29	-200.25
5800.00	13.78	105.13	100.00	5675.41	-2717.41	-206.47
5900.00	13.78	105.13	100.00	5772.53	-2814.53	-212.69
6000.00	13.78	105.13	100.00	5869.65	-2911.65	-218.91
6100.00	13.78	105.13	100.00	5966.77	-3008.77	-225.13
6200.00	13.78	105.13	100.00	6063.89	-3105.89	-231.35
6300.00	13.78	105.13	100.00	6161.01	-3203.01	-237.56
6400.00	13.78	105.13	100.00	6258.13	-3300.13	-243.78
6500.00	13.78	105.13	100.00	6355.25	-3397.25	-250.00
6600.00	13.78	105.13	100.00	6452.37	-3494.37	-256.22
6700.00	13.78	105.13	100.00	6549.49	-3591.49	-262.44
6800.00	13.78	105.13	100.00	6646.61	-3688.61	-268.66
6900.00	13.78	105.13	100.00	6743.73	-3785.73	-274.88
7000.00	13.78	105.13	100.00	6840.85	-3882.85	-281.10
7100.00	13.78	105.13	100.00	6937.97	-3979.97	-287.32
7200.00	13.78	105.13	100.00	7035.09	-4077.09	-293.53
7300.00	13.78	105.13	100.00	7132.21	-4174.21	-299.75
7400.00	13.78	105.13	100.00	7229.33	-4271.33	-305.97
7500.00	13.78	105.13	100.00	7326.45	-4368.45	-312.19
7600.00	13.78	105.13	100.00	7423.57	-4465.57	-318.41
7700.27	13.78	105.13	100.27	7520.96	-4562.96	-324.65
7800.00	11.79	105.13	99.73	7618.21	-4660.21	-330.41
7900.00	9.79	105.13	100.00	7716.43	-4758.43	-335.29
8000.00	7.79	105.13	100.00	7815.25	-4857.25	-339.28
8100.00	5.79	105.13	100.00	7914.55	-4956.55	-342.37
8200.00	3.79	105.13	100.00	8014.19	-5056.19	-344.55
8300.00	1.79	105.13	100.00	8114.07	-5156.07	-345.82
8389.47	0.00	0.00	89.47	8203.52	-5245.52	-346.18
8400.00	1.05	179.75	10.54	8214.05	-5256.05	-346.28
8450.00	6.05	179.75	50.00	8263.94	-5305.94	-349.38
8500.00	11.05	179.75	50.00	8313.37	-5355.37	-356.81
8550.00	16.05	179.75	50.00	8361.96	-5403.96	-368.52
8600.00	21.05	179.75	50.00	8409.35	-5451.35	-384.43
8650.00	26.05	179.75	50.00	8455.17	-5497.17	-404.40
8700.00	31.05	179.75	50.00	8499.07	-5541.07	-428.29
8750.00	36.05	179.75	50.00	8540.73	-5582.73	-455.92
8800.00	41.05	179.75	50.00	8579.82	-5621.82	-487.07
8850.00	46.05	179.75	50.00	8616.04	-5658.04	-521.51
8900.00	51.05	179.75	50.00	8649.13	-5691.13	-558.98
8950.00	56.05	179.75	50.00	8678.82	-5720.82	-599.19
9000.00	61.05	179.75	50.00	8704.90	-5746.90	-641.83
9050.00	66.05	179.75	50.00	8727.16	-5769.16	-686.58
9100.00	71.05	179.75	50.00	8745.44	-5787.44	-733.10

9139.47	75.00	179.75	39.47	8756.96	-5798.96	-770.84
9200.00	78.03	179.75	60.54	8771.07	-5813.07	-829.70
9300.00	83.03	179.75	100.00	8787.52	-5829.52	-928.30
9400.00	88.03	179.75	100.00	8795.32	-5837.32	-1027.97
9439.47	90.00	179.75	39.47	8796.00	-5838.00	-1067.42
9500.00	90.00	179.75	60.53	8796.00	-5838.00	-1127.96
9600.00	90.00	179.75	100.00	8796.00	-5838.00	-1227.96
9700.00	90.00	179.75	100.00	8796.00	-5838.00	-1327.96
9800.00	90.00	179.75	100.00	8796.00	-5838.00	-1427.95
9900.00	90.00	179.75	100.00	8796.00	-5838.00	-1527.95
10000.00	90.00	179.75	100.00	8796.00	-5838.00	-1627.95
10100.00	90.00	179.75	100.00	8796.00	-5838.00	-1727.95
10200.00	90.00	179.75	100.00	8796.00	-5838.00	-1827.95
10300.00	90.00	179.75	100.00	8796.00	-5838.00	-1927.95
10400.00	90.00	179.75	100.00	8796.00	-5838.00	-2027.95
10500.00	90.00	179.75	100.00	8796.00	-5838.00	-2127.95
10600.00	90.00	179.75	100.00	8796.00	-5838.00	-2227.95
10700.00	90.00	179.75	100.00	8796.00	-5838.00	-2327.95
10800.00	90.00	179.75	100.00	8796.00	-5838.00	-2427.95
10900.00	90.00	179.75	100.00	8796.00	-5838.00	-2527.94
11000.00	90.00	179.75	100.00	8796.00	-5838.00	-2627.94
11100.00	90.00	179.75	100.00	8796.00	-5838.00	-2727.94
11200.00	90.00	179.75	100.00	8796.00	-5838.00	-2827.94
11300.00	90.00	179.75	100.00	8796.00	-5838.00	-2927.94
11400.00	90.00	179.75	100.00	8796.00	-5838.00	-3027.94
11500.00	90.00	179.75	100.00	8796.00	-5838.00	-3127.94
11600.00	90.00	179.75	100.00	8796.00	-5838.00	-3227.94
11700.00	90.00	179.75	100.00	8796.00	-5838.00	-3327.94
11800.00	90.00	179.75	100.00	8796.00	-5838.00	-3427.94
11900.00	90.00	179.75	100.00	8796.00	-5838.00	-3527.93
12000.00	90.00	179.75	100.00	8796.00	-5838.00	-3627.93
12100.00	90.00	179.75	100.00	8796.00	-5838.00	-3727.93
12200.00	90.00	179.75	100.00	8796.00	-5838.00	-3827.93
12300.00	90.00	179.75	100.00	8796.00	-5838.00	-3927.93
12400.00	90.00	179.75	100.00	8796.00	-5838.00	-4027.93
12500.00	90.00	179.75	100.00	8796.00	-5838.00	-4127.93
12600.00	90.00	179.75	100.00	8796.00	-5838.00	-4227.93
12700.00	90.00	179.75	100.00	8796.00	-5838.00	-4327.93
12800.00	90.00	179.75	100.00	8796.00	-5838.00	-4427.93
12900.00	90.00	179.75	100.00	8796.00	-5838.00	-4527.92
13000.00	90.00	179.75	100.00	8796.00	-5838.00	-4627.92
13100.00	90.00	179.75	100.00	8796.00	-5838.00	-4727.92
13209.11	90.00	179.75	109.11	8796.00	-5838.00	-4837.03
13250.00	90.00	175.92	40.89	8796.00	-5838.00	-4877.88

13300.00	90.00	171.25	50.00	8796.00	-5838.00	-4927.56
13350.00	90.00	166.57	50.00	8796.00	-5838.00	-4976.61
13400.00	90.00	161.90	50.00	8796.00	-5838.00	-5024.72
13450.00	90.00	157.22	50.00	8796.00	-5838.00	-5071.56
13500.00	90.00	152.55	50.00	8796.00	-5838.00	-5116.82
13550.00	90.00	147.87	50.00	8796.00	-5838.00	-5160.20
13600.00	90.00	143.20	50.00	8796.00	-5838.00	-5201.41
13650.00	90.00	138.52	50.00	8796.00	-5838.00	-5240.18
13700.00	90.00	133.85	50.00	8796.00	-5838.00	-5276.25
13750.00	90.00	129.17	50.00	8796.00	-5838.00	-5309.38
13800.00	90.00	124.50	50.00	8796.00	-5838.00	-5339.35
13850.00	90.00	119.82	50.00	8796.00	-5838.00	-5365.96
13900.00	90.00	115.15	50.00	8796.00	-5838.00	-5389.03
13950.00	90.00	110.47	50.00	8796.00	-5838.00	-5408.41
14000.00	90.00	105.80	50.00	8796.00	-5838.00	-5423.97
14050.00	90.00	101.12	50.00	8796.00	-5838.00	-5435.60
14100.00	90.00	96.45	50.00	8796.00	-5838.00	-5443.24
14150.00	90.00	91.77	50.00	8796.00	-5838.00	-5446.82
14200.00	90.00	87.10	50.00	8796.00	-5838.00	-5446.33
14250.00	90.00	82.42	50.00	8796.00	-5838.00	-5441.77
14300.00	90.00	77.75	50.00	8796.00	-5838.00	-5433.16
14350.00	90.00	73.07	50.00	8796.00	-5838.00	-5420.57
14400.00	90.00	68.40	50.00	8796.00	-5838.00	-5404.08
14450.00	90.00	63.72	50.00	8796.00	-5838.00	-5383.80
14500.00	90.00	59.05	50.00	8796.00	-5838.00	-5359.86
14550.00	90.00	54.37	50.00	8796.00	-5838.00	-5332.42
14600.00	90.00	49.70	50.00	8796.00	-5838.00	-5301.67
14650.00	90.00	45.02	50.00	8796.00	-5838.00	-5267.81
14700.00	90.00	40.35	50.00	8796.00	-5838.00	-5231.07
14750.00	90.00	35.67	50.00	8796.00	-5838.00	-5191.69
14800.00	90.00	31.00	50.00	8796.00	-5838.00	-5149.93
14850.00	90.00	26.32	50.00	8796.00	-5838.00	-5106.06
14900.00	90.00	21.65	50.00	8796.00	-5838.00	-5060.39
14950.00	90.00	16.97	50.00	8796.00	-5838.00	-5013.22
15000.00	90.00	12.30	50.00	8796.00	-5838.00	-4964.86
15050.00	90.00	7.62	50.00	8796.00	-5838.00	-4915.62
15099.11	90.00	3.03	49.11	8796.00	-5838.00	-4866.74
15200.00	90.00	1.01	100.89	8796.00	-5838.00	-4765.92
15263.03	90.00	359.75	63.03	8796.00	-5838.00	-4702.89
15300.00	90.00	359.75	36.97	8796.00	-5838.00	-4665.92
15400.00	90.00	359.75	100.00	8796.00	-5838.00	-4565.92
15500.00	90.00	359.75	100.00	8796.00	-5838.00	-4465.92
15600.00	90.00	359.75	100.00	8796.00	-5838.00	-4365.92
15700.00	90.00	359.75	100.00	8796.00	-5838.00	-4265.92

15800.00	90.00	359.75	100.00	8796.00	-5838.00	-4165.93
15900.00	90.00	359.75	100.00	8796.00	-5838.00	-4065.93
16000.00	90.00	359.75	100.00	8796.00	-5838.00	-3965.93
16100.00	90.00	359.75	100.00	8796.00	-5838.00	-3865.93
16200.00	90.00	359.75	100.00	8796.00	-5838.00	-3765.93
16300.00	90.00	359.75	100.00	8796.00	-5838.00	-3665.93
16400.00	90.00	359.75	100.00	8796.00	-5838.00	-3565.93
16500.00	90.00	359.75	100.00	8796.00	-5838.00	-3465.93
16600.00	90.00	359.75	100.00	8796.00	-5838.00	-3365.93
16700.00	90.00	359.75	100.00	8796.00	-5838.00	-3265.93
16800.00	90.00	359.75	100.00	8796.00	-5838.00	-3165.93
16900.00	90.00	359.75	100.00	8796.00	-5838.00	-3065.94
17000.00	90.00	359.75	100.00	8796.00	-5838.00	-2965.94
17100.00	90.00	359.75	100.00	8796.00	-5838.00	-2865.94
17200.00	90.00	359.75	100.00	8796.00	-5838.00	-2765.94
17300.00	90.00	359.75	100.00	8796.00	-5838.00	-2665.94
17400.00	90.00	359.75	100.00	8796.00	-5838.00	-2565.94
17500.00	90.00	359.75	100.00	8796.00	-5838.00	-2465.94
17600.00	90.00	359.75	100.00	8796.00	-5838.00	-2365.94
17700.00	90.00	359.75	100.00	8796.00	-5838.00	-2265.94
17800.00	90.00	359.75	100.00	8796.00	-5838.00	-2165.94
17900.00	90.00	359.75	100.00	8796.00	-5838.00	-2065.94
18000.00	90.00	359.75	100.00	8796.00	-5838.00	-1965.95
18100.00	90.00	359.75	100.00	8796.00	-5838.00	-1865.95
18200.00	90.00	359.75	100.00	8796.00	-5838.00	-1765.95
18300.00	90.00	359.75	100.00	8796.00	-5838.00	-1665.95
18400.00	90.00	359.75	100.00	8796.00	-5838.00	-1565.95
18500.00	90.00	359.75	100.00	8796.00	-5838.00	-1465.95
18600.00	90.00	359.75	100.00	8796.00	-5838.00	-1365.95
18700.00	90.00	359.75	100.00	8796.00	-5838.00	-1265.95
18800.00	90.00	359.75	100.00	8796.00	-5838.00	-1165.95
18900.00	90.00	359.75	100.00	8796.00	-5838.00	-1065.95
19000.00	90.00	359.75	100.00	8796.00	-5838.00	-965.95
19100.00	90.00	359.75	100.00	8796.00	-5838.00	-865.96
19200.00	90.00	359.75	100.00	8796.00	-5838.00	-765.96
19300.00	90.00	359.75	100.00	8796.00	-5838.00	-665.96
19400.00	90.00	359.75	100.00	8796.00	-5838.00	-565.96
19500.00	90.00	359.75	100.00	8796.00	-5838.00	-465.96
19600.00	90.00	359.75	100.00	8796.00	-5838.00	-365.96
19634.41	90.00	359.75	34.41	8796.00	-5838.00	-331.55

Local E/-W	Easting	Northing	Latitude	Longitude	Dogleg Severit	Build Rate
EW	X	Y	LAT	LON	DLS	BLD
0.00	625766.85	414092.51	32.138125	-104.060561	0.00	0.00
0.00	625766.85	414092.51	32.138125	-104.060561	0.00	0.00
0.00	625766.85	414092.51	32.138125	-104.060561	0.00	0.00
0.00	625766.85	414092.51	32.138125	-104.060561	0.00	0.00
0.00	625766.85	414092.51	32.138125	-104.060561	0.00	0.00
0.00	625766.85	414092.51	32.138125	-104.060561	0.00	0.00
0.00	625766.85	414094.26	32.138130	-104.060561	2.00	2.00
0.00	625766.85	414099.49	32.138144	-104.060561	2.00	2.00
0.00	625766.85	414103.41	32.138155	-104.060561	2.00	2.00
0.00	625766.85	414107.77	32.138167	-104.060561	0.00	0.00
0.00	625766.85	414116.49	32.138191	-104.060561	0.00	0.00
0.00	625766.85	414125.31	32.138215	-104.060561	0.00	0.00
1.43	625768.28	414133.00	32.138236	-104.060556	2.00	-0.73
5.81	625772.66	414138.93	32.138253	-104.060542	2.00	0.13

13.12	625779.97	414142.97	32.138264	-104.060518	2.00	0.94
23.36	625790.21	414145.12	32.138270	-104.060485	2.00	1.41
36.52	625803.37	414145.37	32.138270	-104.060442	2.00	1.65
52.57	625819.42	414143.74	32.138266	-104.060391	2.00	1.78
71.50	625838.35	414140.21	32.138256	-104.060329	2.00	1.85
91.59	625858.44	414135.25	32.138242	-104.060265	2.00	1.89
93.28	625860.13	414134.80	32.138241	-104.060259	0.00	0.00
116.28	625883.13	414128.58	32.138223	-104.060185	0.00	0.00
139.28	625906.13	414122.36	32.138206	-104.060111	0.00	0.00
162.28	625929.13	414116.14	32.138189	-104.060036	0.00	0.00
185.28	625952.13	414109.92	32.138172	-104.059962	0.00	0.00
208.28	625975.13	414103.70	32.138154	-104.059888	0.00	0.00
231.28	625998.13	414097.48	32.138137	-104.059814	0.00	0.00
254.28	626021.13	414091.27	32.138120	-104.059739	0.00	0.00
277.28	626044.13	414085.05	32.138103	-104.059665	0.00	0.00
300.28	626067.13	414078.83	32.138085	-104.059591	0.00	0.00
323.28	626090.13	414072.61	32.138068	-104.059517	0.00	0.00
346.28	626113.13	414066.39	32.138051	-104.059442	0.00	0.00
369.28	626136.13	414060.17	32.138034	-104.059368	0.00	0.00
392.28	626159.13	414053.95	32.138016	-104.059294	0.00	0.00
415.28	626182.13	414047.73	32.137999	-104.059220	0.00	0.00
438.28	626205.13	414041.51	32.137982	-104.059145	0.00	0.00
461.28	626228.13	414035.30	32.137965	-104.059071	0.00	0.00
484.28	626251.13	414029.08	32.137947	-104.058997	0.00	0.00
507.28	626274.13	414022.86	32.137930	-104.058923	0.00	0.00
530.28	626297.13	414016.64	32.137913	-104.058848	0.00	0.00
553.28	626320.13	414010.42	32.137896	-104.058774	0.00	0.00
576.28	626343.13	414004.20	32.137878	-104.058700	0.00	0.00
599.28	626366.13	413997.98	32.137861	-104.058625	0.00	0.00
622.28	626389.13	413991.76	32.137844	-104.058551	0.00	0.00
645.28	626412.13	413985.54	32.137827	-104.058477	0.00	0.00
668.28	626435.13	413979.33	32.137809	-104.058403	0.00	0.00
691.28	626458.13	413973.11	32.137792	-104.058328	0.00	0.00
714.28	626481.13	413966.89	32.137775	-104.058254	0.00	0.00
737.28	626504.13	413960.67	32.137758	-104.058180	0.00	0.00
760.28	626527.13	413954.45	32.137740	-104.058106	0.00	0.00
783.28	626550.13	413948.23	32.137723	-104.058031	0.00	0.00
806.28	626573.13	413942.01	32.137706	-104.057957	0.00	0.00
829.28	626596.13	413935.79	32.137689	-104.057883	0.00	0.00
852.28	626619.13	413929.57	32.137671	-104.057809	0.00	0.00
875.28	626642.13	413923.35	32.137654	-104.057734	0.00	0.00
898.28	626665.13	413917.14	32.137637	-104.057660	0.00	0.00
921.28	626688.13	413910.92	32.137620	-104.057586	0.00	0.00
944.28	626711.13	413904.70	32.137602	-104.057512	0.00	0.00

967.28	626734.13	413898.48	32.137585	-104.057437	0.00	0.00
990.28	626757.13	413892.26	32.137568	-104.057363	0.00	0.00
1013.28	626780.13	413886.04	32.137550	-104.057289	0.00	0.00
1036.28	626803.13	413879.82	32.137533	-104.057215	0.00	0.00
1059.28	626826.13	413873.60	32.137516	-104.057140	0.00	0.00
1082.28	626849.13	413867.38	32.137499	-104.057066	0.00	0.00
1105.28	626872.13	413861.17	32.137481	-104.056992	0.00	0.00
1128.28	626895.13	413854.95	32.137464	-104.056918	0.00	0.00
1151.28	626918.13	413848.73	32.137447	-104.056843	0.00	0.00
1174.28	626941.13	413842.51	32.137430	-104.056769	0.00	0.00
1197.29	626964.14	413836.29	32.137412	-104.056695	0.00	0.00
1220.29	626987.14	413830.07	32.137395	-104.056621	0.00	0.00
1243.29	627010.14	413823.85	32.137378	-104.056546	0.00	0.00
1266.29	627033.14	413817.63	32.137361	-104.056472	0.00	0.00
1289.29	627056.14	413811.41	32.137343	-104.056398	0.00	0.00
1312.29	627079.14	413805.20	32.137326	-104.056324	0.00	0.00
1335.29	627102.14	413798.98	32.137309	-104.056249	0.00	0.00
1358.29	627125.14	413792.76	32.137292	-104.056175	0.00	0.00
1381.29	627148.14	413786.54	32.137274	-104.056101	0.00	0.00
1404.29	627171.14	413780.32	32.137257	-104.056027	0.00	0.00
1427.29	627194.14	413774.10	32.137240	-104.055952	0.00	0.00
1450.35	627217.20	413767.86	32.137223	-104.055878	0.00	0.00
1471.65	627238.50	413762.10	32.137207	-104.055809	2.00	-2.00
1489.72	627256.57	413757.22	32.137193	-104.055751	2.00	-2.00
1504.47	627271.32	413753.23	32.137182	-104.055703	2.00	-2.00
1515.89	627282.74	413750.14	32.137173	-104.055666	2.00	-2.00
1523.94	627290.79	413747.97	32.137167	-104.055640	2.00	-2.00
1528.64	627295.49	413746.70	32.137164	-104.055625	2.00	-2.00
1529.99	627296.84	413746.33	32.137163	-104.055621	2.00	-2.00
1529.99	627296.84	413746.23	32.137163	-104.055621	10.00	10.00
1530.00	627296.85	413743.14	32.137154	-104.055621	10.00	10.00
1530.04	627296.89	413735.70	32.137134	-104.055621	10.00	10.00
1530.09	627296.94	413723.99	32.137101	-104.055621	10.00	10.00
1530.16	627297.01	413708.08	32.137058	-104.055620	10.00	10.00
1530.24	627297.09	413688.11	32.137003	-104.055620	10.00	10.00
1530.35	627297.20	413664.22	32.136937	-104.055620	10.00	10.00
1530.47	627297.32	413636.59	32.136861	-104.055620	10.00	10.00
1530.61	627297.46	413605.44	32.136775	-104.055620	10.00	10.00
1530.76	627297.61	413571.00	32.136681	-104.055620	10.00	10.00
1530.92	627297.77	413533.53	32.136578	-104.055619	10.00	10.00
1531.09	627297.94	413493.33	32.136467	-104.055619	10.00	10.00
1531.28	627298.13	413450.68	32.136350	-104.055619	10.00	10.00
1531.48	627298.33	413405.93	32.136227	-104.055619	10.00	10.00
1531.68	627298.53	413359.41	32.136099	-104.055618	10.00	10.00

1531.84	627298.69	413321.67	32.135995	-104.055618	10.00	10.00
1532.10	627298.95	413262.81	32.135834	-104.055618	5.00	5.00
1532.53	627299.38	413164.21	32.135563	-104.055617	5.00	5.00
1532.97	627299.82	413064.54	32.135289	-104.055617	5.00	5.00
1533.15	627300.00	413025.09	32.135180	-104.055617	5.00	5.00
1533.41	627300.26	412964.55	32.135014	-104.055616	0.00	0.00
1533.85	627300.70	412864.55	32.134739	-104.055616	0.00	0.00
1534.29	627301.14	412764.56	32.134464	-104.055615	0.00	0.00
1534.74	627301.59	412664.56	32.134189	-104.055614	0.00	0.00
1535.18	627302.03	412564.56	32.133914	-104.055614	0.00	0.00
1535.62	627302.47	412464.56	32.133639	-104.055613	0.00	0.00
1536.06	627302.91	412364.56	32.133364	-104.055613	0.00	0.00
1536.50	627303.35	412264.56	32.133089	-104.055612	0.00	0.00
1536.94	627303.79	412164.56	32.132815	-104.055611	0.00	0.00
1537.38	627304.23	412064.56	32.132540	-104.055611	0.00	0.00
1537.83	627304.68	411964.56	32.132265	-104.055610	0.00	0.00
1538.27	627305.12	411864.56	32.131990	-104.055610	0.00	0.00
1538.71	627305.56	411764.56	32.131715	-104.055609	0.00	0.00
1539.15	627306.00	411664.57	32.131440	-104.055608	0.00	0.00
1539.59	627306.44	411564.57	32.131165	-104.055608	0.00	0.00
1540.03	627306.88	411464.57	32.130890	-104.055607	0.00	0.00
1540.47	627307.32	411364.57	32.130615	-104.055607	0.00	0.00
1540.91	627307.76	411264.57	32.130341	-104.055606	0.00	0.00
1541.36	627308.21	411164.57	32.130066	-104.055606	0.00	0.00
1541.80	627308.65	411064.57	32.129791	-104.055605	0.00	0.00
1542.24	627309.09	410964.57	32.129516	-104.055604	0.00	0.00
1542.68	627309.53	410864.57	32.129241	-104.055604	0.00	0.00
1543.12	627309.97	410764.57	32.128966	-104.055603	0.00	0.00
1543.56	627310.41	410664.58	32.128691	-104.055603	0.00	0.00
1544.00	627310.85	410564.58	32.128416	-104.055602	0.00	0.00
1544.44	627311.29	410464.58	32.128141	-104.055601	0.00	0.00
1544.89	627311.74	410364.58	32.127867	-104.055601	0.00	0.00
1545.33	627312.18	410264.58	32.127592	-104.055600	0.00	0.00
1545.77	627312.62	410164.58	32.127317	-104.055600	0.00	0.00
1546.21	627313.06	410064.58	32.127042	-104.055599	0.00	0.00
1546.65	627313.50	409964.58	32.126767	-104.055598	0.00	0.00
1547.09	627313.94	409864.58	32.126492	-104.055598	0.00	0.00
1547.53	627314.38	409764.58	32.126217	-104.055597	0.00	0.00
1547.98	627314.83	409664.59	32.125942	-104.055597	0.00	0.00
1548.42	627315.27	409564.59	32.125667	-104.055596	0.00	0.00
1548.86	627315.71	409464.59	32.125393	-104.055595	0.00	0.00
1549.30	627316.15	409364.59	32.125118	-104.055595	0.00	0.00
1549.78	627316.63	409255.48	32.124818	-104.055594	0.00	0.00
1551.32	627318.17	409214.63	32.124705	-104.055590	9.35	0.00

1556.91	627323.76	409164.95	32.124569	-104.055572	9.35	0.00
1566.52	627333.37	409115.90	32.124434	-104.055541	9.35	0.00
1580.10	627346.95	409067.79	32.124302	-104.055498	9.35	0.00
1597.56	627364.41	409020.95	32.124173	-104.055442	9.35	0.00
1618.77	627385.62	408975.69	32.124048	-104.055374	9.35	0.00
1643.61	627410.46	408932.31	32.123929	-104.055294	9.35	0.00
1671.89	627438.74	408891.10	32.123815	-104.055203	9.35	0.00
1703.44	627470.29	408852.33	32.123708	-104.055101	9.35	0.00
1738.05	627504.90	408816.26	32.123609	-104.054990	9.35	0.00
1775.48	627542.33	408783.13	32.123518	-104.054869	9.35	0.00
1815.49	627582.34	408753.16	32.123435	-104.054740	9.35	0.00
1857.80	627624.65	408726.55	32.123362	-104.054604	9.35	0.00
1902.15	627669.00	408703.48	32.123298	-104.054461	9.35	0.00
1948.22	627715.07	408684.10	32.123244	-104.054312	9.35	0.00
1995.73	627762.58	408668.54	32.123201	-104.054159	9.35	0.00
2044.34	627811.19	408656.91	32.123169	-104.054002	9.35	0.00
2093.74	627860.59	408649.27	32.123147	-104.053842	9.35	0.00
2143.60	627910.45	408645.69	32.123137	-104.053681	9.35	0.00
2193.58	627960.43	408646.18	32.123138	-104.053520	9.35	0.00
2243.36	628010.21	408650.75	32.123150	-104.053359	9.35	0.00
2292.60	628059.45	408659.35	32.123174	-104.053200	9.35	0.00
2340.97	628107.82	408671.94	32.123208	-104.053043	9.35	0.00
2388.16	628155.01	408688.43	32.123253	-104.052891	9.35	0.00
2433.84	628200.69	408708.71	32.123308	-104.052743	9.35	0.00
2477.73	628244.58	408732.65	32.123374	-104.052601	9.35	0.00
2519.51	628286.36	408760.09	32.123449	-104.052466	9.35	0.00
2558.92	628325.77	408790.84	32.123533	-104.052338	9.35	0.00
2595.69	628362.54	408824.70	32.123626	-104.052219	9.35	0.00
2629.58	628396.43	408861.44	32.123727	-104.052109	9.35	0.00
2660.36	628427.21	408900.82	32.123835	-104.052010	9.35	0.00
2687.83	628454.68	408942.59	32.123949	-104.051921	9.35	0.00
2711.81	628478.66	408986.45	32.124070	-104.051843	9.35	0.00
2732.13	628498.98	409032.12	32.124195	-104.051777	9.35	0.00
2748.66	628515.51	409079.29	32.124325	-104.051723	9.35	0.00
2761.29	628528.14	409127.65	32.124458	-104.051682	9.35	0.00
2769.94	628536.79	409176.89	32.124593	-104.051653	9.35	0.00
2774.49	628541.34	409225.77	32.124727	-104.051638	9.35	0.00
2778.06	628544.91	409326.59	32.125004	-104.051626	2.00	0.00
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2777.89	628544.74	409526.59	32.125554	-104.051625	0.00	0.00
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2776.60	628543.45	409826.59	32.126379	-104.051626	0.00	0.00

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2775.74	628542.59	410026.58	32.126929	-104.051627	0.00	0.00
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2774.88	628541.73	410226.58	32.127478	-104.051629	0.00	0.00
2774.45	628541.30	410326.58	32.127753	-104.051629	0.00	0.00
2774.02	628540.87	410426.58	32.128028	-104.051630	0.00	0.00
2773.59	628540.44	410526.58	32.128303	-104.051630	0.00	0.00
2773.16	628540.01	410626.58	32.128578	-104.051631	0.00	0.00
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2772.30	628539.15	410826.58	32.129128	-104.051632	0.00	0.00
2771.87	628538.72	410926.58	32.129403	-104.051632	0.00	0.00
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2770.15	628537.00	411326.57	32.130502	-104.051635	0.00	0.00
2769.72	628536.57	411426.57	32.130777	-104.051635	0.00	0.00
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2767.15	628534.00	412026.57	32.132426	-104.051638	0.00	0.00
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2762.42	628529.27	413126.56	32.135450	-104.051644	0.00	0.00
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2761.56	628528.41	413326.55	32.136000	-104.051645	0.00	0.00
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2760.70	628527.55	413526.55	32.136550	-104.051647	0.00	0.00
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2759.69	628526.54	413760.96	32.137194	-104.051648	0.00	0.00

Turn Rate TRN	Vertical Section VS
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0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	-1.75
0.00	-6.98
0.00	-10.90
0.00	-15.26
0.00	-23.98
0.00	-32.80
23.23	-40.49
26.61	-46.39

21.03	-50.40
13.55	-52.51
8.58	-52.70
5.69	-51.00
3.99	-47.39
2.96	-42.34
0.00	-41.88
0.00	-35.56
0.00	-29.24
0.00	-22.92
0.00	-16.60
0.00	-10.28
0.00	-3.97
0.00	2.35
0.00	8.67
0.00	14.99
0.00	21.31
0.00	27.63
0.00	33.95
0.00	40.27
0.00	46.59
0.00	52.91
0.00	59.23
0.00	65.55
0.00	71.87
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0.00	147.70
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Released to Imaging: 12/5/2025 10:07:17 AM
Received by OCD: 11/21/2025 2:52:31 PM

COTERRA

Coterra Energy

Site: Riverbend 14 Federal Com
Well: Riverbend 14 Federal Com 8H
Wellbore: OH
Design: Plan 1
Rig:

PROJECT DETAILS: Eddy County, NM (NAD 83)

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

total

SHL

RKB Elevation: 2935' GL + 23 @ 2958.00usft

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	414092.51	625766.85	32.1381252	-104.0605608	

SECTION DETAILS

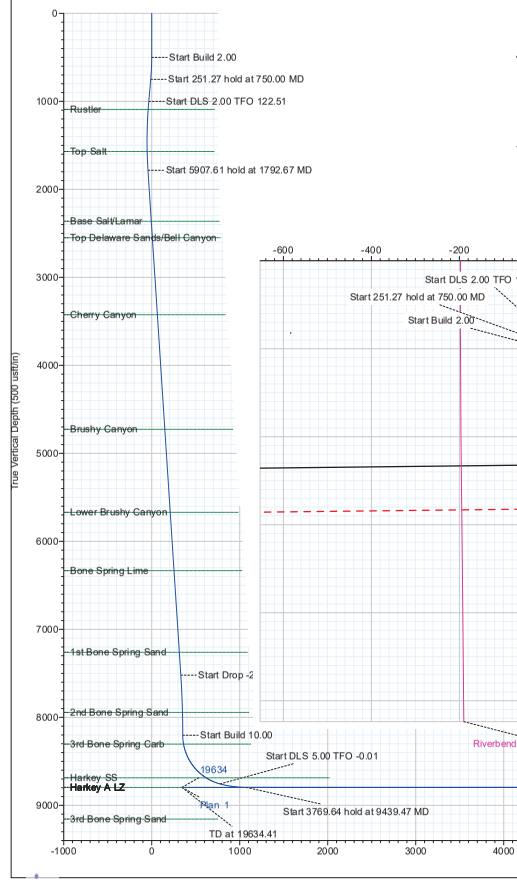
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
750.00	5.00	0.00	749.68	10.90	0.00	2.00	0.00	-10.90	Start 251.27 hold at 750.00 MD
1001.27	5.00	0.00	1000.00	32.80	0.00	0.00	0.00	-32.80	Start DLS 2.00 TFO 122.51
1792.67	13.78	105.13	1783.48	42.74	91.59	2.00	122.51	-42.34	Start 5907.61 hold at 1792.67 MD
1900.27	13.78	105.13	7520.95	-324.65	1450.35	0.00	0.00	330.97	Start Drop -2.00
8009.47	0.00	0.00	8203.52	-346.18	1529.99	2.00	180.00	352.85	Start Build 10.00
8659.47	75.00	179.75	8756.95	-770.84	1531.84	10.00	179.75	777.52	Start DLS 5.00 TFO -0.01
9439.47	90.00	179.75	8796.00	-1067.42	1533.14	5.00	-0.01	1074.10	Start 3769.64 hold at 9439.47 MD
13209.11	90.00	179.75	8796.00	-4837.03	1549.78	0.00	0.00	4843.75	Start DLS 9.35 TFO 270.00
15089.11	90.00	3.03	8796.00	-4866.74	2774.49	9.35	270.00	4878.80	Start DLS 2.00 TFO -90.00
15263.03	90.00	359.75	8796.00	-4702.89	2778.48	2.00	-90.00	4714.97	Start 4371.38 hold at 15263.03 MD
19634.41	90.00	359.75	8796.00	-331.55	2759.69	0.00	0.00	343.59	TD at 19634.41

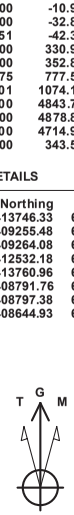
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1091.00	1092.57	Rustler
1570.00	1574.58	Top Salt
2362.00	2388.34	Base Salt/Lamar
2550.00	2581.92	Top Delaware Sands/Bell Canyon
3425.00	3482.86	Cherry Canyon
4727.00	4823.47	Brushy Canyon
5670.00	5794.43	Lower Brushy Canyon
6334.00	6478.12	Bone Spring Lime
7260.00	7431.58	1st Bone Spring Sand
7944.00	8129.59	2nd Bone Spring Sand
8304.00	8490.47	3rd Bone Spring Carb
8687.00	8964.94	Harkey SS
8796.00	9438.06	Harkey A LZ

WELLBORE TARGET DETAILS

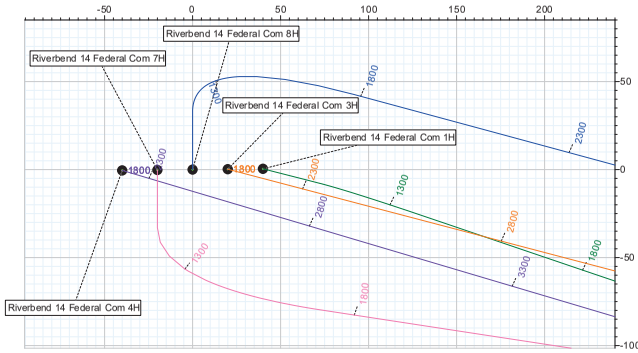
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Riverbend Federal Com 8H)	0.00	-346.18	1529.99	413746.33	627296.84	32.1371628	-104.0556207
KOP 2 (Riverbend Federal Com 8H)	0.00	-4837.03	1549.78	409255.48	627316.63	32.1248177	-104.0555942
LP Crv 2 (Riverbend Federal Com 8H)	0.00	-4828.43	2779.48	409264.08	628546.33	32.1248325	-104.0516218
LPP (Riverbend Federal Com 8H)	0.00	-1560.33	2765.10	412532.18	628531.95	32.1338164	-104.0516407
LTP (Riverbend Federal Com 8H)	0.00	-331.55	2759.69	413760.96	628526.54	32.1371942	-104.0516478
NPZ 1 (Riverbend Federal Com 8H)	0.00	-5300.75	1765.85	408791.76	627532.70	32.1235414	-104.0549001
NPZ 2 (Riverbend Federal Com 8H)	0.00	-5295.13	2569.91	408797.38	628336.76	32.1235511	-104.0523027
Pk Crv 2 (Riverbend Federal Com 8H)	0.00	-5447.58	2168.93	408644.93	627935.78	32.1231349	-104.0535993

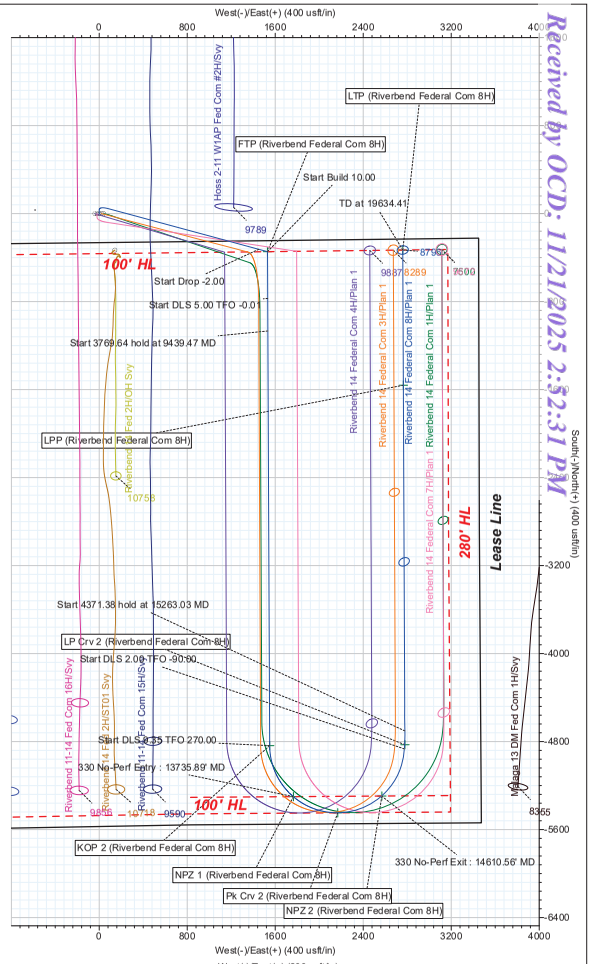


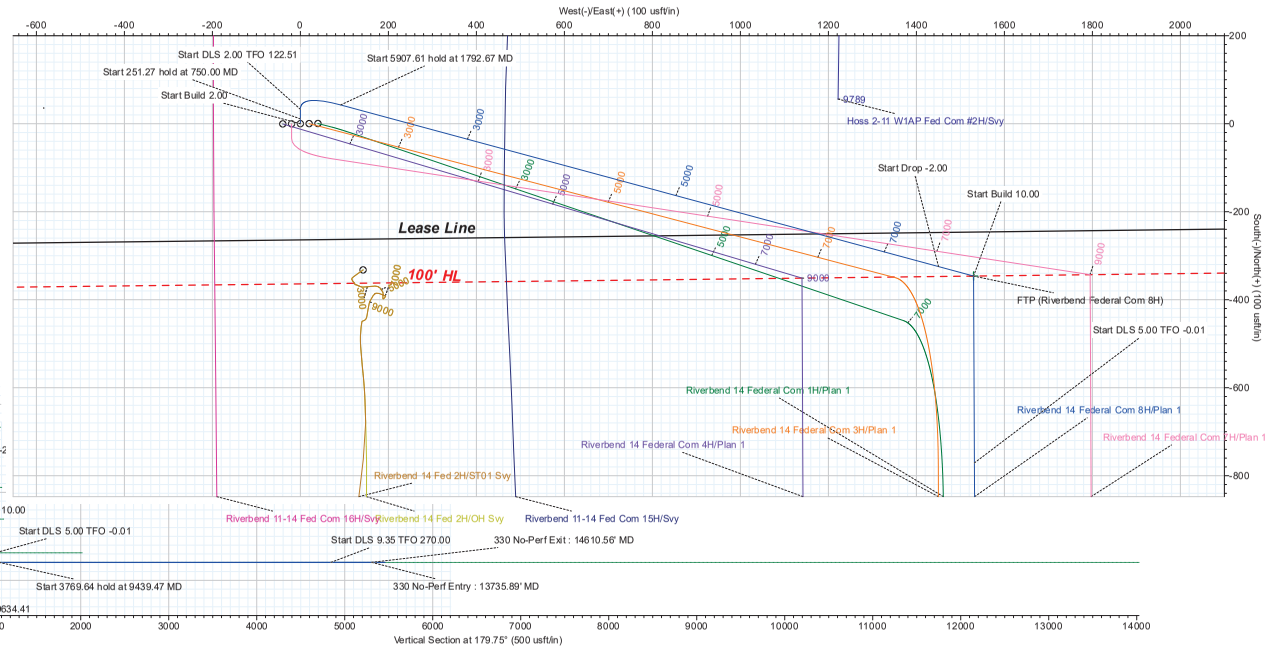


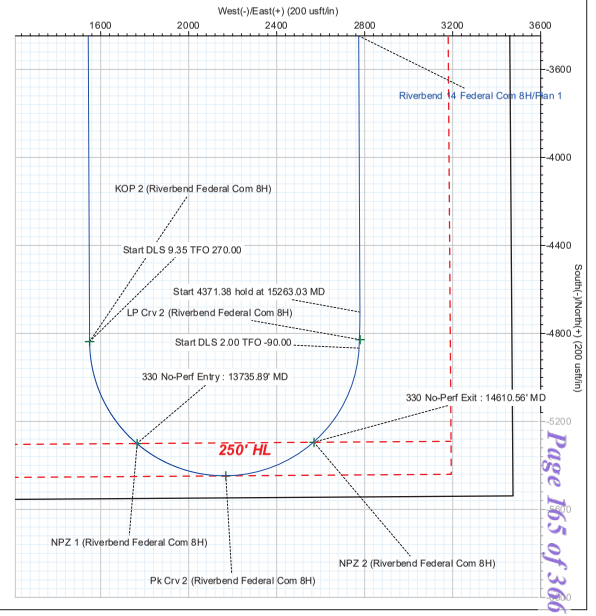
Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.27°

Magnetic Field
Strength: 47126.8nT
Dip Angle: 59.63°
Date: 12/13/2025
Model: HDGM2025









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Coterra Energy

Eddy County, NM (NAD 83)
Riverbend 14 Federal Com
Riverbend 14 Federal Com 8H

OH
Plan 1

Total Directional
"Driven by TOTAL performance"

Anticollision Report

Minimum Magnetic Interference Warning level is 50' center to center

16 June, 2025

Total Report Version 1.60

COMPASS 5000.16 Build 97

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Reference	Plan 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.00usft or Max. SF of 6	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Well	Riverbend 14 Federal Com 8H						
Well Position	**+N/-S**	0.00 usft	**Northing:**	414,092.51 usft	**Latitude:**	32.1381252	
	+E/-W	0.00 usft	**Easting:**	625,766.85 usft	**Longitude:**	-104.0605608	
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	2,935.00 usft	
Grid Convergence:		0.15 °					

Survey Tool Program **Date** 6/16/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,634.41	Plan 1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Offset Listing

Site Name / Offset Well	Ground Level	KB Height	Map Coordinates Northing	Map Coordinates Easting	Geographical Coordinates Latitude	Geographical Coordinates Longitude	Surface Uncertainty Site	Surface Uncertainty Well
Coterra Energy - Riverbend 14 Federal Com								
Riverbend 11-14 Fed Com 15H -	2,967.30	2,990.30	418,738.26	625,947.20	32.1508947	-104.0599401	0.00	0.00
Riverbend 11-14 Fed Com 16H -	2,967.00	2,990.00	418,737.86	625,927.21	32.1508937	-104.0600047	0.00	0.00
Riverbend 11-14 Fed Com 17H -	2,967.20	2,990.20	418,737.47	625,907.22	32.1508928	-104.0600692	0.00	0.00
Riverbend 11-14 Fed Com 7H -	2,967.40	2,990.40	418,737.08	625,887.23	32.1508918	-104.0601338	0.00	0.00
Riverbend 14 Fed 2H -	2,939.00	2,957.00	413,760.30	625,909.40	32.1372110	-104.0601030	0.00	0.00
Coterra Energy - Riverbend 14 Federal Com								
Malaga 13 DM Fed Com 1H -	2,888.00	2,908.00	414,150.32	630,383.57	32.1382511	-104.0456449	0.50	0.50
Coterra Energy - Riverbend 14 Federal Com								
Hoss 2-11 W1AP Fed Com #2H -	2,953.00	2,981.00	424,121.00	628,024.00	32.1656766	-104.0531842	0.00	0.00
Riverbend 14 Federal Com 1H -	2,935.00	2,958.00	414,092.97	625,806.83	32.1381262	-104.0604317	0.00	0.00
Riverbend 14 Federal Com 3H -	2,935.00	2,958.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00
Riverbend 14 Federal Com 4H -	2,936.00	2,959.00	414,092.06	625,726.86	32.1381242	-104.0606900	0.00	0.00
Riverbend 14 Federal Com 7H -	2,936.00	2,959.00	414,092.29	625,746.85	32.1381247	-104.0606254	0.00	0.00

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Riverbend 11-14						
Riverbend 11-14 Fed Com 15H - OH - Svy	12,754.36	18,461.87	1,324.04	1,198.00	10.51	CC
Riverbend 11-14 Fed Com 15H - OH - Svy	13,209.11	18,914.63	1,324.87	1,192.72	10.03	ES
Riverbend 11-14 Fed Com 15H - OH - Svy	13,300.00	18,994.01	1,330.99	1,197.72	9.99	SF
Riverbend 11-14 Fed Com 16H - OH - Svy	12,355.36	18,270.51	2,014.57	1,895.12	16.87	CC
Riverbend 11-14 Fed Com 16H - OH - Svy	12,500.00	18,396.75	2,015.44	1,894.29	16.64	ES
Riverbend 11-14 Fed Com 16H - OH - Svy	13,450.00	19,395.46	2,074.60	1,940.33	15.45	SF
Riverbend 11-14 Fed Com 17H - OH - Svy	13,222.06	19,089.25	2,492.66	2,362.18	19.10	CC, ES
Riverbend 11-14 Fed Com 17H - OH - Svy	13,350.00	19,165.54	2,506.65	2,374.84	19.02	SF
Riverbend 11-14 Fed Com 7H - OH - Svy	13,183.71	19,304.74	3,198.50	3,069.61	24.82	CC
Riverbend 11-14 Fed Com 7H - OH - Svy	13,209.11	19,322.05	3,198.53	3,069.37	24.76	ES
Riverbend 11-14 Fed Com 7H - OH - Svy	13,350.00	19,413.31	3,215.20	3,084.52	24.60	SF
Riverbend 14 Fed 2H - OH - OH Svy	0.00	0.00	361.50			
Riverbend 14 Fed 2H - OH - OH Svy	100.00	96.74	361.81	361.38	841.57	ES
Riverbend 14 Fed 2H - ST01 - ST01 Svy	0.00	0.00	361.50			
Riverbend 14 Fed 2H - ST01 - ST01 Svy	100.00	96.74	361.81	361.38	841.57	ES
Riverbend 12-13 Offsets						
Malaga 13 DM Fed Com 1H - OH - Svy	15,000.00	13,138.65	1,147.34	1,009.23	8.31	SF
Malaga 13 DM Fed Com 1H - OH - Svy	15,087.20	13,050.01	1,141.65	1,004.91	8.35	CC, ES
Riverbend 14 Federal Com						
Hoss 2-11 W1AP Fed Com #2H - OH - Svy	8,973.16	19,907.00	1,324.89	1,222.04	12.88	CC, ES
Hoss 2-11 W1AP Fed Com #2H - OH - Svy	19,634.41	19,907.00	1,870.95	1,657.23	8.75	SF
Riverbend 14 Federal Com 1H - OH - Plan 1	500.00	500.00	39.98	36.56	11.69	CC, ES
Riverbend 14 Federal Com 1H - OH - Plan 1	7,100.00	7,072.45	166.28	112.95	3.12	SF
Riverbend 14 Federal Com 3H - OH - Plan 1	536.26	536.25	19.99	16.31	5.43	CC
Riverbend 14 Federal Com 3H - OH - Plan 1	600.00	599.98	20.05	15.91	4.85	ES
Riverbend 14 Federal Com 3H - OH - Plan 1	8,066.77	8,065.55	132.10	71.35	2.17	SF
Riverbend 14 Federal Com 4H - OH - Plan 1	500.00	501.00	39.99	36.57	11.68	CC
Riverbend 14 Federal Com 4H - OH - Plan 1	700.00	700.84	40.67	35.82	8.38	ES
Riverbend 14 Federal Com 4H - OH - Plan 1	7,300.00	7,324.82	288.68	234.09	5.29	SF
Riverbend 14 Federal Com 7H - OH - Plan 1	416.33	417.33	20.00	17.18	7.08	CC
Riverbend 14 Federal Com 7H - OH - Plan 1	600.00	600.87	20.35	16.23	4.94	ES
Riverbend 14 Federal Com 7H - OH - Plan 1	6,200.00	6,198.31	96.40	49.85	2.07	SF

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 15H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	28.00	28.00	0.00	0.04	2.22	4,645.76	180.33	4,649.26				
100.00	100.00	114.69	114.69	0.28	0.18	2.22	4,645.98	180.09	4,649.50	4,649.04	0.46	N/A	
200.00	200.00	201.49	201.48	0.63	0.32	2.21	4,646.45	179.56	4,650.02	4,649.07	0.96	4,866.289	
300.00	300.00	317.56	317.55	0.99	0.74	2.20	4,647.10	178.23	4,650.54	4,648.81	1.73	2,689.087	
400.00	400.00	429.61	429.58	1.35	1.14	2.17	4,647.27	176.06	4,650.60	4,648.11	2.49	1,868.945	
500.00	500.00	508.81	508.76	1.71	1.42	2.15	4,647.50	174.43	4,650.83	4,647.70	3.13	1,485.710	
600.00	599.98	582.28	582.21	2.07	1.68	2.13	4,648.18	173.09	4,649.92	4,646.17	3.75	1,239.219	
700.00	699.84	673.30	673.21	2.43	2.01	2.12	4,649.30	171.37	4,645.85	4,641.41	4.44	1,046.494	
750.00	749.68	718.24	718.14	2.61	2.17	2.11	4,649.92	170.58	4,642.59	4,637.81	4.78	970.720	
800.00	799.49	801.10	800.99	2.79	2.46	2.10	4,650.93	169.65	4,638.88	4,633.63	5.25	883.244	
900.00	899.11	918.47	918.35	3.15	2.85	2.13	4,651.18	171.13	4,630.39	4,624.38	6.00	771.155	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 15H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,000.00	998.73	1,025.12	1,024.97	3.51	3.21	2.16	4,651.35	173.34	4,621.91	4,615.19	6.72	687.499	
1,001.27	1,000.00	1,026.52	1,026.37	3.51	3.22	2.16	4,651.35	173.37	4,621.80	4,615.07	6.73	686.534	
1,100.00	1,098.41	1,130.65	1,130.47	3.87	3.57	-20.83	4,651.32	175.60	4,614.11	4,606.67	7.44	620.126	
1,200.00	1,198.13	1,224.41	1,224.22	4.22	3.90	-47.50	4,651.34	177.20	4,608.11	4,599.99	8.12	567.591	
1,300.00	1,297.78	1,331.18	1,330.97	4.58	4.27	-68.60	4,651.32	179.09	4,603.86	4,595.02	8.84	520.756	
1,400.00	1,397.23	1,429.94	1,429.71	4.93	4.61	-82.22	4,651.20	181.29	4,601.30	4,591.77	9.53	482.594	
1,478.14	1,474.72	1,499.00	1,498.75	5.20	4.85	-89.26	4,651.21	183.07	4,600.69	4,590.64	10.05	457.817	
1,500.00	1,496.35	1,523.03	1,522.77	5.28	4.94	-90.85	4,651.23	183.66	4,600.73	4,590.52	10.21	450.625	
1,600.00	1,595.04	1,636.48	1,636.21	5.63	5.33	-96.66	4,651.11	185.17	4,601.80	4,590.85	10.96	420.028	
1,700.00	1,693.16	1,723.47	1,723.20	5.98	5.64	-100.73	4,650.95	185.44	4,604.66	4,593.05	11.61	396.533	
1,792.67	1,783.48	1,789.25	1,788.98	6.31	5.87	-103.50	4,651.17	185.63	4,609.46	4,597.29	12.17	378.677	
1,800.00	1,790.60	1,795.80	1,795.53	6.34	5.89	-103.52	4,651.20	185.65	4,609.92	4,597.70	12.22	377.179	
1,900.00	1,887.72	1,888.38	1,888.10	6.70	6.22	-103.78	4,651.83	185.83	4,616.39	4,603.49	12.91	357.677	
2,000.00	1,984.84	2,040.23	2,039.93	7.06	6.75	-104.18	4,651.85	188.53	4,622.32	4,608.52	13.80	334.924	
2,100.00	2,081.96	2,286.88	2,286.47	7.43	7.61	-104.86	4,646.11	191.17	4,625.78	4,610.77	15.01	308.203	
2,200.00	2,179.08	2,348.00	2,347.54	7.80	7.82	-105.02	4,643.86	191.92	4,628.45	4,612.86	15.59	296.824	
2,300.00	2,276.20	2,407.88	2,407.38	8.17	8.03	-105.18	4,642.13	193.14	4,632.01	4,615.84	16.18	286.332	
2,400.00	2,373.32	2,442.00	2,441.49	8.55	8.15	-105.26	4,641.55	194.00	4,636.86	4,620.19	16.67	278.116	
2,500.00	2,470.44	2,494.00	2,493.47	8.93	8.34	-105.40	4,641.41	195.14	4,643.04	4,625.81	17.23	269.469	
2,600.00	2,567.56	2,563.14	2,562.60	9.30	8.58	-105.58	4,641.94	196.40	4,650.25	4,632.41	17.85	260.528	
2,700.00	2,664.68	2,651.89	2,651.32	9.68	8.90	-105.81	4,642.75	198.23	4,657.78	4,639.24	18.54	251.244	
2,800.00	2,761.80	2,736.00	2,735.41	10.07	9.19	-106.02	4,643.78	200.01	4,665.68	4,646.46	19.21	242.840	
2,900.00	2,858.92	2,783.66	2,783.04	10.45	9.36	-106.14	4,644.69	201.33	4,674.31	4,654.55	19.76	236.604	
3,000.00	2,956.04	2,831.00	2,830.32	10.83	9.53	-106.25	4,646.08	203.31	4,684.02	4,663.73	20.30	230.788	
3,100.00	3,053.16	2,908.31	2,907.43	11.22	9.80	-106.41	4,648.97	207.96	4,694.53	4,673.59	20.95	224.132	
3,200.00	3,150.29	3,000.42	2,999.18	11.60	10.13	-106.58	4,652.85	215.18	4,705.46	4,683.81	21.65	217.335	
3,300.00	3,247.41	3,085.68	3,084.02	11.99	10.43	-106.73	4,656.58	222.74	4,716.57	4,694.23	22.33	211.209	
3,400.00	3,344.53	3,169.67	3,167.48	12.38	10.73	-106.86	4,660.57	231.31	4,728.03	4,705.02	23.01	205.496	
3,500.00	3,441.65	3,317.21	3,313.93	12.76	11.26	-107.06	4,667.35	247.83	4,739.39	4,715.47	23.93	198.093	
3,600.00	3,538.77	3,428.88	3,424.70	13.15	11.66	-107.21	4,671.58	261.37	4,749.87	4,725.16	24.71	192.233	
3,700.00	3,635.89	3,527.91	3,523.04	13.54	12.01	-107.35	4,675.18	272.41	4,760.26	4,734.82	25.45	187.072	
3,800.00	3,733.01	3,621.91	3,616.48	13.93	12.35	-107.49	4,678.58	282.01	4,770.72	4,744.55	26.17	182.330	
3,900.00	3,830.13	3,722.34	3,716.09	14.32	12.71	-107.62	4,682.46	294.26	4,781.33	4,754.42	26.91	177.680	
4,000.00	3,927.25	3,830.55	3,823.20	14.71	13.10	-107.73	4,686.46	309.12	4,791.73	4,764.04	27.68	173.080	
4,100.00	4,024.37	3,958.96	3,950.33	15.10	13.56	-107.87	4,690.88	326.67	4,801.91	4,773.37	28.54	168.266	
4,200.00	4,121.49	4,066.48	4,056.96	15.49	13.95	-108.00	4,693.95	340.05	4,811.59	4,782.27	29.31	164.152	
4,300.00	4,218.61	4,163.88	4,153.72	15.88	14.30	-108.14	4,696.61	350.90	4,821.24	4,791.19	30.05	160.452	
4,400.00	4,315.73	4,264.76	4,254.04	16.27	14.67	-108.28	4,699.28	361.24	4,830.89	4,800.10	30.80	156.861	
4,500.00	4,412.85	4,359.48	4,348.25	16.66	15.01	-108.43	4,701.82	370.65	4,840.63	4,809.10	31.52	153.556	
4,600.00	4,509.97	4,455.99	4,444.26	17.05	15.36	-108.57	4,704.41	380.14	4,850.41	4,818.15	32.26	150.369	
4,700.00	4,607.09	4,541.67	4,529.48	17.45	15.67	-108.70	4,706.89	388.59	4,860.44	4,827.49	32.95	147.514	
4,800.00	4,704.21	4,641.80	4,629.09	17.84	16.03	-108.85	4,709.89	398.45	4,870.59	4,836.89	33.70	144.542	
4,900.00	4,801.33	14,257.10	9,671.01	18.23	50.45	175.24	-184.25	462.97	4,849.66	4,799.90	49.76	97.455	
5,000.00	4,898.45	14,271.00	9,670.92	18.62	50.53	174.70	-198.15	463.03	4,754.48	4,704.35	50.14	94.829	
5,100.00	4,995.57	14,271.00	9,670.92	19.02	50.53	174.70	-198.15	463.03	4,659.47	4,609.05	50.42	92.410	
5,200.00	5,092.69	14,271.00	9,670.92	19.41	50.53	174.70	-198.15	463.03	4,564.68	4,513.96	50.72	90.004	
5,300.00	5,189.81	14,271.00	9,670.92	19.80	50.53	174.70	-198.15	463.03	4,470.11	4,419.09	51.02	87.613	
5,400.00	5,286.93	14,271.00	9,670.92	20.20	50.53	174.70	-198.15	463.03	4,375.79	4,324.45	51.34	85.237	
5,500.00	5,384.05	14,271.00	9,670.92	20.59	50.53	174.70	-198.15	463.03	4,281.72	4,230.05	51.66	82.876	
5,600.00	5,481.17	14,271.00	9,670.92	20.98	50.53	174.70	-198.15	463.03	4,187.92	4,135.92	52.00	80.531	
5,700.00	5,578.29	14,271.00	9,670.92	21.38	50.53	174.70	-198.15	463.03	4,094.42	4,042.07	52.36	78.202	
5,800.00	5,675.41	14,290.61	9,670.86	21.77	50.64	173.95	-217.76	463.23	4,001.16	3,948.29	52.86	75.691	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 15H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,900.00	5,772.53	14,294.52	9,670.86	22.16	50.66	173.80	-221.67	463.29	3,908.27	3,855.00	53.27	73.366	
6,000.00	5,869.65	14,298.59	9,670.86	22.56	50.68	173.64	-225.74	463.35	3,815.74	3,762.04	53.70	71.062	
6,100.00	5,966.77	14,302.82	9,670.87	22.95	50.71	173.48	-229.97	463.43	3,723.59	3,669.45	54.14	68.777	
6,200.00	6,063.89	14,307.23	9,670.88	23.35	50.73	173.31	-234.38	463.52	3,631.84	3,577.24	54.60	66.514	
6,300.00	6,161.01	14,311.82	9,670.89	23.74	50.76	173.13	-238.97	463.63	3,540.53	3,485.45	55.09	64.273	
6,400.00	6,258.13	14,316.62	9,670.92	24.14	50.79	172.95	-243.76	463.74	3,449.70	3,394.10	55.59	62.055	
6,500.00	6,355.25	14,321.62	9,670.94	24.53	50.82	172.75	-248.76	463.87	3,359.37	3,303.25	56.12	59.861	
6,600.00	6,452.37	14,326.85	9,670.98	24.92	50.85	172.55	-253.99	464.02	3,269.60	3,212.92	56.67	57.692	
6,700.00	6,549.49	14,332.32	9,671.02	25.32	50.88	172.34	-259.46	464.19	3,180.42	3,123.16	57.26	55.548	
6,800.00	6,646.61	14,338.05	9,671.08	25.71	50.91	172.12	-265.18	464.38	3,091.89	3,034.02	57.87	53.432	
6,900.00	6,743.73	14,344.05	9,671.14	26.11	50.95	171.88	-271.18	464.59	3,004.06	2,945.56	58.51	51.344	
7,000.00	6,840.85	14,350.35	9,671.22	26.50	50.98	171.64	-277.48	464.84	2,917.01	2,857.82	59.19	49.286	
7,100.00	6,937.97	14,366.00	9,671.45	26.90	51.07	171.03	-293.11	465.51	2,830.80	2,770.84	59.96	47.212	
7,200.00	7,035.09	14,366.00	9,671.45	27.29	51.07	171.03	-293.11	465.51	2,745.48	2,684.81	60.67	45.256	
7,300.00	7,132.21	14,376.99	9,671.62	27.69	51.14	170.60	-304.09	466.01	2,661.16	2,599.68	61.49	43.281	
7,400.00	7,229.33	14,391.43	9,671.81	28.08	51.22	170.04	-318.51	466.65	2,577.92	2,515.55	62.37	41.331	
7,500.00	7,326.45	14,404.86	9,671.94	28.48	51.30	169.52	-331.92	467.23	2,495.86	2,432.56	63.30	39.430	
7,600.00	7,423.57	14,417.37	9,672.04	28.87	51.37	169.03	-344.43	467.76	2,415.11	2,350.84	64.27	37.578	
7,700.00	7,520.69	14,429.06	9,672.10	29.27	51.44	168.57	-356.11	468.23	2,335.81	2,270.52	65.29	35.778	
7,700.27	7,520.96	14,429.09	9,672.10	29.27	51.44	168.56	-356.14	468.24	2,335.60	2,270.31	65.29	35.773	
7,800.00	7,618.21	14,439.28	9,672.12	29.66	51.50	167.63	-366.32	468.64	2,257.05	2,190.72	66.33	34.027	
7,900.00	7,716.43	14,447.42	9,672.13	30.04	51.55	166.71	-374.46	468.96	2,177.83	2,110.45	67.38	32.321	
8,000.00	7,815.25	14,453.69	9,672.13	30.41	51.58	165.81	-380.71	469.20	2,098.23	2,029.80	68.44	30.660	
8,100.00	7,914.55	14,458.22	9,672.12	30.78	51.61	164.93	-385.24	469.37	2,018.32	1,948.82	69.49	29.043	
8,200.00	8,014.19	14,461.17	9,672.11	31.13	51.63	164.07	-388.19	469.48	1,938.15	1,867.59	70.56	27.468	
8,300.00	8,114.07	14,462.65	9,672.11	31.47	51.63	163.23	-389.68	469.53	1,857.83	1,786.19	71.63	25.936	
8,389.47	8,203.52	14,462.84	9,672.11	31.77	51.64	-92.36	-389.86	469.54	1,785.88	1,713.29	72.59	24.601	
8,400.00	8,214.05	14,462.92	9,672.11	31.80	51.64	89.31	-389.94	469.54	1,777.42	1,704.71	72.71	24.445	
8,450.00	8,263.94	14,466.50	9,672.10	31.95	51.66	95.70	-393.52	469.68	1,737.59	1,664.31	73.28	23.711	
8,500.00	8,313.37	14,471.10	9,672.10	32.11	51.68	101.63	-398.12	469.86	1,698.56	1,624.68	73.88	22.992	
8,550.00	8,361.96	14,481.48	9,672.12	32.27	51.75	106.77	-408.49	470.27	1,660.64	1,586.12	74.51	22.286	
8,600.00	8,409.35	14,495.80	9,672.17	32.42	51.83	111.18	-422.79	470.87	1,624.12	1,548.93	75.18	21.602	
8,650.00	8,455.17	14,514.05	9,672.31	32.57	51.94	114.91	-441.02	471.67	1,589.27	1,513.39	75.88	20.944	
8,700.00	8,499.07	14,536.17	9,672.58	32.71	52.07	118.02	-463.12	472.71	1,556.33	1,479.73	76.59	20.319	
8,750.00	8,540.73	14,564.28	9,673.06	32.85	52.23	120.51	-491.19	474.13	1,525.50	1,448.17	77.34	19.726	
8,800.00	8,579.82	14,600.29	9,673.55	32.99	52.44	122.44	-527.15	475.92	1,496.87	1,418.75	78.11	19.162	
8,850.00	8,616.04	14,639.47	9,673.84	33.11	52.68	124.00	-566.28	477.78	1,470.51	1,391.61	78.90	18.639	
8,900.00	8,649.13	14,675.93	9,673.92	33.24	52.89	125.40	-602.71	479.41	1,446.59	1,366.96	79.64	18.165	
8,950.00	8,678.82	14,713.81	9,673.93	33.36	53.12	126.53	-640.56	480.95	1,425.31	1,344.96	80.36	17.737	
9,000.00	8,704.90	14,752.23	9,673.88	33.47	53.35	127.46	-678.95	482.36	1,406.76	1,325.71	81.05	17.358	
9,050.00	8,727.16	14,789.51	9,674.12	33.58	53.57	128.24	-716.20	483.76	1,391.11	1,309.43	81.69	17.030	
9,100.00	8,745.44	14,834.00	9,674.94	33.70	53.84	128.80	-760.65	485.55	1,378.45	1,296.13	82.32	16.745	
9,139.47	8,756.95	14,864.55	9,675.75	33.78	54.02	129.20	-791.16	486.83	1,370.52	1,287.76	82.76	16.561	
9,200.00	8,771.07	14,921.98	9,677.46	33.92	54.37	129.25	-848.51	489.36	1,360.77	1,277.32	83.45	16.306	
9,300.00	8,787.52	14,981.42	9,678.77	34.14	54.73	129.39	-907.91	490.51	1,350.56	1,266.27	84.29	16.022	
9,368.64	8,793.81	15,022.00	9,678.74	34.30	54.98	129.31	-948.47	489.11	1,348.58	1,263.75	84.82	15.899	
9,400.00	8,795.32	15,067.67	9,678.04	34.37	55.25	129.14	-994.07	486.70	1,348.72	1,263.43	85.30	15.812	
9,439.47	8,796.00	15,129.95	9,676.26	34.46	55.63	128.95	-1,056.26	483.92	1,349.09	1,263.17	85.92	15.702	
9,500.00	8,796.00	15,203.50	9,673.97	34.60	56.08	128.80	-1,129.74	481.65	1,349.58	1,262.92	86.66	15.573	
9,600.00	8,796.00	15,279.70	9,672.59	34.85	56.54	128.70	-1,205.90	479.91	1,350.59	1,263.09	87.50	15.435	
9,700.00	8,796.00	15,383.11	9,672.50	35.10	57.18	128.62	-1,309.28	477.40	1,352.79	1,264.22	88.57	15.274	
9,800.00	8,796.00	15,507.66	9,670.30	35.37	57.95	128.47	-1,433.80	475.14	1,353.42	1,263.56	89.85	15.063	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 15H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,810.26	8,796.00	15,516.76	9,670.08	35.40	58.00	128.46	-1,442.89	475.01	1,353.41	1,263.46	89.95	15.046	
9,900.00	8,796.00	15,598.92	9,668.26	35.65	58.52	128.35	-1,525.01	473.54	1,353.74	1,262.87	90.86	14.899	
10,000.00	8,796.00	15,705.80	9,666.75	35.94	59.19	128.26	-1,631.88	472.47	1,353.99	1,261.98	92.01	14.715	
10,003.03	8,796.00	15,708.88	9,666.72	35.95	59.20	128.26	-1,634.96	472.45	1,354.00	1,261.95	92.05	14.710	
10,100.00	8,796.00	15,797.24	9,665.66	36.24	59.76	128.20	-1,723.30	471.89	1,354.12	1,261.09	93.04	14.555	
10,200.00	8,796.00	15,875.42	9,665.15	36.55	60.25	128.13	-1,801.47	470.09	1,355.82	1,261.87	93.95	14.431	
10,300.00	8,796.00	16,010.25	9,663.78	36.88	61.11	128.03	-1,936.27	468.93	1,356.01	1,260.61	95.40	14.214	
10,346.36	8,796.00	16,053.00	9,663.33	37.04	61.38	128.01	-1,979.02	468.84	1,355.94	1,260.04	95.89	14.140	
10,400.00	8,796.00	16,097.82	9,662.88	37.22	61.67	127.98	-2,023.84	468.52	1,356.11	1,259.68	96.42	14.064	
10,500.00	8,796.00	16,172.82	9,662.14	37.57	62.15	127.91	-2,098.82	466.99	1,357.51	1,260.17	97.33	13.947	
10,600.00	8,796.00	16,289.80	9,661.76	37.93	62.90	127.78	-2,215.70	462.99	1,360.52	1,261.85	98.68	13.788	
10,700.00	8,796.00	16,437.65	9,659.79	38.29	63.86	127.75	-2,363.48	464.80	1,358.64	1,258.36	100.28	13.548	
10,800.00	8,796.00	16,523.00	9,658.65	38.68	64.41	127.73	-2,448.81	466.21	1,356.88	1,255.54	101.33	13.390	
10,900.00	8,796.00	16,617.00	9,657.20	39.07	65.03	127.69	-2,542.80	466.63	1,355.93	1,253.45	102.47	13.232	
11,000.00	8,796.00	16,711.00	9,656.00	39.47	65.64	127.66	-2,636.78	467.78	1,354.58	1,250.97	103.62	13.073	
11,050.67	8,796.00	16,757.57	9,655.73	39.67	65.95	127.67	-2,683.34	468.42	1,354.07	1,249.88	104.19	12.997	
11,100.00	8,796.00	16,805.00	9,655.59	39.88	66.26	127.64	-2,730.77	467.85	1,354.60	1,249.83	104.77	12.930	
11,200.00	8,796.00	16,953.85	9,653.84	40.30	67.25	127.62	-2,879.56	470.09	1,353.08	1,246.65	106.44	12.712	
11,300.00	8,796.00	17,050.60	9,652.53	40.73	67.89	127.66	-2,976.23	473.75	1,349.62	1,241.99	107.63	12.539	
11,400.00	8,796.00	17,147.14	9,651.16	41.16	68.54	127.69	-3,072.72	476.81	1,346.59	1,237.75	108.83	12.373	
11,500.00	8,796.00	17,254.13	9,648.77	41.61	69.26	127.67	-3,179.63	479.70	1,343.44	1,233.29	110.15	12.197	
11,600.00	8,796.00	17,344.76	9,647.16	42.07	69.86	127.68	-3,270.20	482.65	1,340.14	1,228.82	111.32	12.039	
11,700.00	8,796.00	17,448.99	9,645.84	42.53	70.57	127.71	-3,374.38	485.74	1,337.37	1,224.76	112.62	11.876	
11,800.00	8,796.00	17,560.06	9,643.88	43.00	71.32	127.73	-3,485.36	489.69	1,333.83	1,219.85	113.98	11.702	
11,900.00	8,796.00	17,628.62	9,643.00	43.48	71.78	127.74	-3,553.89	491.67	1,331.10	1,216.13	114.97	11.578	
12,000.00	8,796.00	17,715.80	9,642.47	43.97	72.37	127.74	-3,641.06	492.61	1,330.19	1,214.06	116.12	11.455	
12,100.00	8,796.00	17,822.11	9,641.08	44.46	73.10	127.69	-3,747.36	493.02	1,329.44	1,211.95	117.49	11.315	
12,200.00	8,796.00	17,918.06	9,639.49	44.97	73.75	127.64	-3,843.29	493.49	1,328.39	1,209.64	118.75	11.186	
12,300.00	8,796.00	18,019.05	9,637.82	45.47	74.44	127.57	-3,944.27	493.67	1,327.59	1,207.51	120.08	11.056	
12,400.00	8,796.00	18,119.33	9,635.77	45.99	75.12	127.49	-4,044.53	493.67	1,326.69	1,205.28	121.41	10.927	
12,500.00	8,796.00	18,219.09	9,633.70	46.51	75.81	127.41	-4,144.27	493.66	1,325.80	1,203.06	122.74	10.802	
12,600.00	8,796.00	18,315.18	9,630.74	47.04	76.46	127.27	-4,240.30	492.68	1,325.09	1,201.04	124.04	10.683	
12,700.00	8,796.00	18,417.91	9,628.16	47.58	77.17	127.16	-4,343.00	492.24	1,324.25	1,198.83	125.42	10.559	
12,754.36	8,796.00	18,461.87	9,627.25	47.87	77.47	127.12	-4,386.95	491.96	1,324.04	1,198.00	126.03	10.505	CC
12,800.00	8,796.00	18,499.12	9,626.25	48.12	77.73	127.06	-4,424.18	491.22	1,324.19	1,197.64	126.55	10.464	
12,900.00	8,796.00	18,598.26	9,625.01	48.66	78.41	126.97	-4,523.29	489.84	1,324.90	1,197.00	127.89	10.360	
13,000.00	8,796.00	18,707.79	9,625.17	49.22	79.17	126.97	-4,632.82	490.15	1,325.10	1,195.76	129.35	10.245	
13,003.96	8,796.00	18,711.53	9,625.16	49.24	79.19	126.97	-4,636.56	490.16	1,325.10	1,195.70	129.40	10.241	
13,100.00	8,796.00	18,807.99	9,624.52	49.77	79.86	126.93	-4,733.01	489.93	1,325.24	1,194.54	130.70	10.139	
13,199.57	8,796.00	18,907.14	9,623.86	50.34	80.55	126.90	-4,832.16	490.33	1,324.87	1,192.82	132.05	10.033	
13,200.00	8,796.00	18,907.48	9,623.85	50.34	80.55	126.90	-4,832.50	490.33	1,324.87	1,192.82	132.05	10.033	
13,209.11	8,796.00	18,914.63	9,623.82	50.39	80.60	126.90	-4,839.65	490.33	1,324.87	1,192.72	132.15	10.025	ES
13,250.00	8,796.00	18,946.66	9,623.66	50.62	80.82	126.93	-4,871.68	490.15	1,326.16	1,193.56	132.61	10.001	
13,300.00	8,796.00	18,994.01	9,623.38	50.92	81.15	127.04	-4,919.03	489.52	1,330.99	1,197.72	133.28	9.987	SF
13,350.00	8,796.00	19,048.96	9,622.62	51.22	81.53	127.17	-4,973.96	488.67	1,338.92	1,204.86	134.06	9.988	
13,400.00	8,796.00	19,093.03	9,621.92	51.52	81.84	127.45	-5,018.03	488.02	1,350.01	1,215.29	134.72	10.021	
13,450.00	8,796.00	19,133.31	9,621.88	51.83	82.12	127.93	-5,058.30	487.62	1,364.51	1,229.17	135.35	10.082	
13,500.00	8,796.00	19,177.75	9,622.39	52.14	82.43	128.52	-5,102.74	487.38	1,382.32	1,246.30	136.03	10.162	
13,550.00	8,796.00	19,226.78	9,622.64	52.45	82.77	129.17	-5,151.76	487.07	1,403.07	1,266.29	136.78	10.258	
13,600.00	8,796.00	19,262.98	9,622.51	52.75	83.02	130.17	-5,187.96	486.73	1,426.73	1,289.36	137.37	10.386	
13,650.00	8,796.00	19,298.49	9,622.23	53.04	83.27	131.38	-5,223.47	486.07	1,453.48	1,315.52	137.96	10.536	
13,700.00	8,796.00	19,307.00	9,622.17	53.33	83.33	133.54	-5,231.97	485.91	1,483.25	1,345.09	138.16	10.735	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 15H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,750.00	8,796.00	19,307.00	9,622.17	53.61	83.33	136.45	-5,231.97	485.91	1,516.31	1,378.10	138.21	10.971	
13,800.00	8,796.00	19,307.00	9,622.17	53.87	83.33	140.07	-5,231.97	485.91	1,552.26	1,414.04	138.23	11.230	
13,850.00	8,796.00	19,307.00	9,622.17	54.12	83.33	144.51	-5,231.97	485.91	1,590.68	1,452.45	138.23	11.508	
13,900.00	8,796.00	19,307.00	9,622.17	54.35	83.33	149.93	-5,231.97	485.91	1,631.14	1,492.91	138.22	11.801	
13,950.00	8,796.00	19,307.00	9,622.17	54.56	83.33	156.44	-5,231.97	485.91	1,673.23	1,535.01	138.23	12.105	
14,000.00	8,796.00	19,307.00	9,622.17	54.76	83.33	164.09	-5,231.97	485.91	1,716.57	1,578.33	138.24	12.417	
14,050.00	8,796.00	19,307.00	9,622.17	54.93	83.33	172.76	-5,231.97	485.91	1,760.79	1,622.51	138.28	12.734	
14,100.00	8,796.00	19,307.00	9,622.17	55.08	83.33	-177.88	-5,231.97	485.91	1,805.54	1,667.20	138.34	13.052	
14,150.00	8,796.00	19,307.00	9,622.17	55.20	83.33	-168.37	-5,231.97	485.91	1,850.49	1,712.07	138.41	13.369	
14,200.00	8,796.00	19,307.00	9,622.17	55.31	83.33	-159.27	-5,231.97	485.91	1,895.34	1,756.82	138.51	13.684	
14,250.00	8,796.00	19,307.00	9,622.17	55.39	83.33	-151.02	-5,231.97	485.91	1,939.81	1,801.18	138.63	13.993	
14,300.00	8,796.00	19,307.00	9,622.17	55.45	83.33	-143.85	-5,231.97	485.91	1,983.64	1,844.87	138.76	14.295	
14,350.00	8,796.00	19,307.00	9,622.17	55.48	83.33	-137.77	-5,231.97	485.91	2,026.58	1,887.68	138.91	14.590	
14,400.00	8,796.00	19,307.00	9,622.17	55.49	83.33	-132.70	-5,231.97	485.91	2,068.43	1,929.37	139.06	14.874	
14,450.00	8,796.00	19,307.00	9,622.17	55.48	83.33	-128.49	-5,231.97	485.91	2,108.96	1,969.75	139.22	15.149	
14,500.00	8,796.00	19,307.00	9,622.17	55.45	83.33	-124.99	-5,231.97	485.91	2,148.00	2,008.63	139.37	15.412	
14,550.00	8,796.00	19,307.00	9,622.17	55.40	83.33	-122.09	-5,231.97	485.91	2,185.37	2,045.84	139.53	15.663	
14,600.00	8,796.00	19,307.00	9,622.17	55.33	83.33	-119.66	-5,231.97	485.91	2,220.91	2,081.24	139.67	15.901	
14,650.00	8,796.00	19,307.00	9,622.17	55.25	83.33	-117.63	-5,231.97	485.91	2,254.48	2,114.68	139.80	16.126	
14,700.00	8,796.00	19,271.93	9,622.44	55.15	83.09	-115.63	-5,196.91	486.57	2,285.68	2,146.20	139.47	16.388	
14,750.00	8,796.00	19,253.04	9,622.57	55.04	82.95	-114.12	-5,178.03	486.87	2,314.11	2,174.75	139.36	16.605	
14,800.00	8,796.00	19,207.45	9,622.60	54.92	82.64	-112.74	-5,132.44	487.20	2,339.65	2,200.73	138.92	16.841	
14,850.00	8,796.00	19,159.71	9,622.17	54.79	82.30	-111.62	-5,084.70	487.47	2,361.86	2,223.39	138.47	17.057	
14,900.00	8,796.00	19,114.17	9,621.82	54.65	81.99	-110.76	-5,039.16	487.78	2,380.59	2,242.53	138.06	17.244	
14,950.00	8,796.00	19,067.41	9,622.26	54.51	81.66	-110.11	-4,992.41	488.37	2,395.77	2,258.12	137.65	17.405	
15,000.00	8,796.00	19,015.20	9,623.15	54.37	81.30	-109.66	-4,940.21	489.20	2,407.23	2,270.04	137.19	17.547	
15,050.00	8,796.00	18,966.00	9,623.57	54.22	80.96	-109.36	-4,891.02	489.93	2,414.85	2,278.07	136.78	17.655	
15,099.11	8,796.00	18,932.33	9,623.73	54.08	80.72	-109.22	-4,857.36	490.26	2,418.78	2,282.21	136.57	17.711	
15,100.00	8,796.00	18,931.77	9,623.73	54.08	80.72	-109.22	-4,856.79	490.27	2,418.82	2,282.25	136.57	17.711	
15,200.00	8,796.00	18,863.36	9,624.11	53.80	80.24	-109.18	-4,788.38	490.09	2,422.52	2,286.36	136.15	17.792	
15,263.03	8,796.00	18,778.00	9,624.79	53.63	79.65	-109.19	-4,703.03	490.05	2,423.08	2,287.67	135.40	17.895	
15,300.00	8,796.00	18,742.21	9,625.06	53.53	79.41	-109.20	-4,667.24	490.19	2,422.88	2,287.75	135.14	17.929	
15,343.54	8,796.00	18,707.19	9,625.17	53.42	79.16	-109.20	-4,632.22	490.14	2,422.81	2,287.90	134.91	17.959	
15,400.00	8,796.00	18,645.13	9,625.09	53.27	78.74	-109.20	-4,570.16	489.82	2,422.84	2,288.42	134.41	18.025	
15,500.00	8,796.00	18,508.65	9,625.99	53.02	77.80	-109.23	-4,433.70	490.99	2,421.84	2,288.60	133.24	18.177	
15,600.00	8,796.00	18,441.71	9,627.70	52.78	77.33	-109.28	-4,366.79	492.17	2,420.66	2,287.75	132.91	18.213	
15,622.67	8,796.00	18,427.99	9,627.98	52.72	77.24	-109.29	-4,353.07	492.24	2,420.62	2,287.77	132.85	18.221	
15,700.00	8,796.00	18,343.12	9,629.78	52.54	76.66	-109.33	-4,268.22	492.30	2,420.83	2,288.61	132.22	18.310	
15,800.00	8,796.00	18,247.89	9,633.01	52.31	76.00	-109.42	-4,173.06	493.56	2,420.32	2,288.73	131.58	18.394	
15,811.63	8,796.00	18,238.94	9,633.25	52.29	75.94	-109.43	-4,164.11	493.61	2,420.31	2,288.78	131.53	18.401	
15,900.00	8,796.00	18,156.95	9,634.98	52.09	75.38	-109.47	-4,082.14	493.66	2,420.52	2,289.52	131.00	18.477	
16,000.00	8,796.00	18,057.60	9,637.06	51.88	74.70	-109.52	-3,982.81	493.69	2,420.78	2,290.45	130.33	18.574	
16,100.00	8,796.00	17,957.86	9,638.89	51.68	74.02	-109.56	-3,883.09	493.58	2,421.09	2,291.41	129.68	18.670	
16,200.00	8,796.00	17,866.26	9,640.32	51.49	73.40	-109.59	-3,791.51	493.28	2,421.52	2,292.41	129.11	18.755	
16,300.00	8,796.00	17,756.83	9,642.02	51.30	72.65	-109.63	-3,682.08	492.75	2,422.11	2,293.73	128.38	18.867	
16,400.00	8,796.00	17,669.18	9,642.80	51.13	72.06	-109.65	-3,594.44	492.24	2,422.56	2,294.69	127.88	18.945	
16,500.00	8,796.00	17,607.02	9,643.19	50.96	71.64	-109.65	-3,532.29	491.19	2,424.02	2,296.39	127.63	18.992	
16,600.00	8,796.00	17,543.74	9,644.19	50.80	71.21	-109.66	-3,469.06	489.06	2,427.24	2,299.88	127.36	19.058	
16,700.00	8,796.00	17,421.74	9,646.24	50.65	70.38	-109.67	-3,347.14	484.89	2,430.61	2,304.06	126.55	19.206	
16,800.00	8,796.00	17,324.57	9,647.44	50.51	69.73	-109.68	-3,250.03	482.03	2,433.40	2,307.42	125.99	19.315	
16,900.00	8,796.00	17,224.42	9,649.42	50.38	69.06	-109.70	-3,149.94	478.79	2,436.71	2,311.30	125.41	19.430	
17,000.00	8,796.00	17,121.57	9,651.61	50.26	68.37	-109.73	-3,047.16	476.08	2,439.50	2,314.67	124.82	19.544	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 15H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,100.00	8,796.00	17,035.13	9,652.72	50.15	67.79	-109.74	-2,960.77	473.19	2,442.68	2,318.29	124.39	19.638	
17,200.00	8,796.00	16,856.47	9,655.11	50.05	66.60	-109.76	-2,782.22	468.05	2,446.14	2,323.01	123.13	19.866	
17,295.49	8,796.00	16,754.57	9,655.74	49.97	65.93	-109.78	-2,680.34	468.41	2,445.59	2,323.01	122.58	19.951	
17,300.00	8,796.00	16,752.61	9,655.75	49.97	65.92	-109.78	-2,678.38	468.40	2,445.59	2,323.01	122.58	19.951	
17,400.00	8,796.00	16,700.82	9,656.08	49.89	65.58	-109.78	-2,626.61	467.53	2,446.84	2,324.34	122.51	19.973	
17,500.00	8,796.00	16,564.62	9,658.07	49.82	64.68	-109.82	-2,490.43	466.54	2,447.41	2,325.71	121.70	20.111	
17,600.00	8,796.00	16,487.12	9,659.12	49.76	64.18	-109.84	-2,412.94	465.74	2,448.44	2,327.03	121.42	20.165	
17,700.00	8,796.00	16,408.41	9,660.22	49.72	63.66	-109.85	-2,334.25	464.11	2,450.44	2,329.31	121.13	20.231	
17,800.00	8,796.00	16,171.98	9,662.14	49.68	62.14	-109.93	-2,097.98	467.02	2,447.96	2,328.50	119.46	20.492	
17,900.00	8,796.00	16,113.90	9,662.72	49.66	61.77	-109.95	-2,039.91	468.30	2,445.74	2,326.30	119.43	20.478	
18,000.00	8,796.00	16,042.90	9,663.43	49.65	61.32	-109.97	-1,968.92	468.87	2,444.90	2,325.63	119.27	20.499	
18,100.00	8,796.00	15,901.63	9,665.00	49.65	60.42	-110.02	-1,827.66	469.47	2,444.77	2,326.27	118.50	20.631	
18,200.00	8,796.00	15,810.42	9,665.54	49.66	59.84	-110.05	-1,736.49	471.70	2,442.33	2,324.14	118.19	20.664	
18,300.00	8,796.00	15,737.70	9,666.38	49.69	59.39	-110.08	-1,663.78	472.30	2,441.48	2,323.42	118.05	20.682	
18,400.00	8,796.00	15,620.76	9,667.86	49.73	58.65	-110.12	-1,546.85	473.18	2,440.83	2,323.28	117.54	20.765	
18,500.00	8,796.00	15,524.48	9,669.89	49.78	58.05	-110.18	-1,450.60	474.89	2,439.49	2,322.25	117.24	20.808	
18,600.00	8,796.00	15,393.59	9,672.41	49.84	57.24	-110.26	-1,319.76	477.15	2,438.23	2,321.57	116.66	20.900	
18,700.00	8,796.00	15,285.78	9,672.58	49.92	56.58	-110.29	-1,211.98	479.77	2,435.59	2,319.32	116.27	20.948	
18,800.00	8,796.00	15,222.45	9,673.40	50.01	56.19	-110.32	-1,148.67	481.26	2,433.54	2,317.28	116.26	20.932	
18,900.00	8,796.00	15,022.00	9,678.74	50.12	54.98	-110.51	-948.47	489.11	2,430.42	2,315.23	115.19	21.099	
19,000.00	8,796.00	14,988.71	9,678.82	50.24	54.78	-110.52	-915.20	490.39	2,426.54	2,311.06	115.48	21.013	
19,100.00	8,796.00	14,928.00	9,677.66	50.37	54.41	-110.50	-854.52	489.63	2,425.93	2,310.46	115.48	21.008	
19,121.20	8,796.00	14,928.00	9,677.66	50.40	54.41	-110.50	-854.52	489.63	2,425.84	2,310.27	115.58	20.989	
19,200.00	8,796.00	14,914.42	9,677.22	50.51	54.33	-110.48	-840.96	489.02	2,427.08	2,311.29	115.79	20.960	
19,300.00	8,796.00	14,814.74	9,674.52	50.67	53.72	-110.39	-741.41	484.76	2,429.74	2,314.29	115.45	21.047	
19,400.00	8,796.00	14,725.46	9,673.92	50.85	53.19	-110.35	-652.20	481.39	2,432.64	2,317.43	115.21	21.115	
19,500.00	8,796.00	14,641.82	9,673.85	51.03	52.69	-110.32	-568.63	477.89	2,436.13	2,321.11	115.03	21.179	
19,600.00	8,796.00	14,538.61	9,672.62	51.23	52.08	-110.26	-465.56	472.83	2,439.91	2,325.21	114.71	21.271	
19,634.41	8,796.00	14,497.99	9,672.19	51.30	51.84	-110.24	-424.99	470.96	2,441.14	2,326.57	114.57	21.307	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 16H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	29.62	29.62	0.00	0.05	1.98	4,645.36	160.35	4,648.13				
100.00	100.00	122.18	122.18	0.28	0.19	1.97	4,645.49	160.17	4,648.26	4,647.79	0.47	9,889.133	
200.00	200.00	230.07	230.07	0.63	0.42	1.97	4,645.78	159.68	4,648.52	4,647.47	1.06	4,399.705	
300.00	300.00	405.78	405.77	0.99	1.04	1.95	4,644.33	158.38	4,647.62	4,645.58	2.03	2,284.999	
400.00	400.00	506.23	506.20	1.35	1.39	1.95	4,642.66	158.29	4,645.95	4,643.21	2.74	1,693.525	
500.00	500.00	591.59	591.55	1.71	1.69	1.96	4,641.46	158.71	4,644.55	4,641.15	3.40	1,366.101	
600.00	599.98	719.71	719.65	2.07	2.14	1.97	4,639.30	159.71	4,641.13	4,636.92	4.21	1,102.273	
700.00	699.84	794.00	793.92	2.43	2.41	1.98	4,638.01	159.91	4,634.20	4,629.37	4.84	958.114	
750.00	749.68	839.00	838.92	2.61	2.57	1.99	4,637.53	159.76	4,629.74	4,624.56	5.18	893.764	
800.00	799.49	858.33	858.25	2.79	2.63	1.99	4,637.41	159.65	4,624.98	4,619.55	5.43	852.187	
900.00	899.11	933.00	932.92	3.15	2.90	1.98	4,637.29	159.07	4,616.06	4,610.01	6.05	763.365	
1,000.00	998.73	1,024.32	1,024.24	3.51	3.22	1.97	4,637.49	158.08	4,607.52	4,600.79	6.72	685.188	
1,001.27	1,000.00	1,025.64	1,025.56	3.51	3.22	1.97	4,637.49	158.07	4,607.41	4,600.67	6.73	684.238	
1,100.00	1,098.41	1,151.89	1,151.79	3.87	3.67	-21.07	4,637.30	156.54	4,599.47	4,591.94	7.53	610.544	
1,200.00	1,198.13	1,267.62	1,267.52	4.22	4.08	-47.80	4,636.62	155.23	4,592.79	4,584.49	8.30	553.310	
1,300.00	1,297.78	1,381.97	1,381.85	4.58	4.49	-68.96	4,635.53	154.04	4,587.53	4,578.47	9.06	506.333	
1,400.00	1,397.23	1,487.58	1,487.45	4.93	4.87	-82.64	4,634.27	153.10	4,583.87	4,574.08	9.79	468.366	
1,500.00	1,496.35	1,548.64	1,548.51	5.28	5.08	-91.28	4,633.71	152.66	4,582.36	4,572.01	10.35	442.648	
1,504.11	1,500.42	1,550.93	1,550.80	5.29	5.09	-91.56	4,633.70	152.65	4,582.36	4,571.99	10.37	441.690	
1,600.00	1,595.04	1,594.00	1,593.87	5.63	5.24	-96.97	4,633.69	152.50	4,583.67	4,572.81	10.86	421.968	
1,700.00	1,693.16	1,669.11	1,668.98	5.98	5.50	-100.99	4,634.28	152.26	4,587.63	4,576.16	11.47	399.899	
1,792.67	1,783.48	1,737.26	1,737.12	6.31	5.73	-103.75	4,635.31	151.85	4,593.63	4,581.60	12.03	381.699	
1,800.00	1,790.60	1,743.03	1,742.89	6.34	5.75	-103.77	4,635.41	151.79	4,594.19	4,582.11	12.08	380.281	
1,900.00	1,887.72	1,824.29	1,824.12	6.70	6.03	-104.02	4,636.99	150.68	4,602.04	4,589.32	12.72	361.820	
2,000.00	1,984.84	1,926.29	1,926.08	7.06	6.38	-104.33	4,639.18	149.01	4,610.23	4,596.80	13.43	343.210	
2,100.00	2,081.96	2,109.25	2,108.94	7.43	7.01	-104.80	4,641.44	153.86	4,617.82	4,603.40	14.42	320.265	
2,200.00	2,179.08	2,330.74	2,330.29	7.80	7.77	-105.36	4,637.76	160.35	4,621.95	4,606.41	15.54	297.430	
2,300.00	2,276.20	2,404.72	2,404.24	8.17	8.03	-105.55	4,636.00	161.88	4,626.04	4,609.87	16.17	286.109	
2,400.00	2,373.32	2,477.43	2,476.93	8.55	8.28	-105.75	4,634.71	162.48	4,630.80	4,614.01	16.80	275.702	
2,500.00	2,470.44	2,563.94	2,563.43	8.93	8.58	-105.99	4,633.51	162.62	4,636.06	4,618.58	17.47	265.304	
2,600.00	2,567.56	2,654.26	2,653.74	9.30	8.90	-106.24	4,632.39	162.88	4,641.58	4,623.41	18.17	255.489	
2,700.00	2,664.68	2,743.63	2,743.11	9.68	9.22	-106.49	4,631.44	163.27	4,647.38	4,628.52	18.86	246.441	
2,800.00	2,761.80	2,849.33	2,848.80	10.07	9.59	-106.79	4,630.27	163.67	4,653.24	4,633.63	19.61	237.322	
2,900.00	2,858.92	2,941.81	2,941.28	10.45	9.92	-107.04	4,629.26	163.97	4,659.22	4,638.90	20.31	229.382	
3,000.00	2,956.04	3,045.15	3,044.61	10.83	10.28	-107.33	4,628.07	164.31	4,665.26	4,644.21	21.06	221.562	
3,100.00	3,053.16	3,142.35	3,141.80	11.22	10.63	-107.61	4,626.86	163.97	4,671.34	4,649.56	21.78	214.475	
3,200.00	3,150.29	3,238.87	3,238.30	11.60	10.97	-107.90	4,625.65	162.27	4,677.61	4,655.11	22.50	207.872	
3,300.00	3,247.41	3,337.72	3,337.07	11.99	11.32	-108.21	4,624.18	158.79	4,683.87	4,660.64	23.23	201.613	
3,400.00	3,344.53	3,417.02	3,416.28	12.38	11.60	-108.48	4,623.10	155.15	4,690.49	4,666.59	23.89	196.315	
3,500.00	3,441.65	3,492.00	3,491.14	12.76	11.86	-108.73	4,622.40	150.98	4,697.70	4,673.17	24.54	191.451	
3,600.00	3,538.77	3,571.14	3,570.11	13.15	12.14	-109.01	4,621.91	145.79	4,705.47	4,680.28	25.20	186.752	
3,700.00	3,635.89	3,642.20	3,640.97	13.54	12.39	-109.27	4,621.67	140.51	4,713.77	4,687.94	25.83	182.522	
3,800.00	3,733.01	3,705.95	3,704.50	13.93	12.61	-109.51	4,621.79	135.25	4,722.81	4,696.38	26.43	178.709	
3,900.00	3,830.13	3,775.00	3,773.23	14.32	12.85	-109.77	4,622.40	128.64	4,732.77	4,705.72	27.05	174.983	
4,000.00	3,927.25	3,828.25	3,826.15	14.71	13.04	-109.98	4,623.18	122.83	4,743.57	4,715.96	27.61	171.829	
4,100.00	4,024.37	3,901.93	3,899.26	15.10	13.30	-110.29	4,624.52	113.69	4,755.16	4,726.92	28.24	168.383	
4,200.00	4,121.49	3,984.83	3,981.31	15.49	13.59	-110.65	4,626.04	101.99	4,767.20	4,738.29	28.91	164.909	
4,300.00	4,218.61	4,059.00	4,054.58	15.88	13.85	-110.98	4,627.58	90.57	4,779.86	4,750.31	29.54	161.797	
4,400.00	4,315.73	4,113.82	4,108.67	16.27	14.04	-111.22	4,628.99	81.77	4,793.32	4,763.22	30.10	159.241	
4,500.00	4,412.85	4,174.64	4,168.65	16.66	14.25	-111.50	4,630.95	71.84	4,807.70	4,777.02	30.68	156.701	
4,600.00	4,509.97	4,247.00	4,239.96	17.05	14.51	-111.82	4,633.70	59.94	4,822.90	4,791.60	31.30	154.065	
4,700.00	4,607.09	4,340.26	4,331.84	17.45	14.83	-112.24	4,637.38	44.37	4,838.57	4,806.56	32.01	151.151	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 16H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,704.21	4,431.48	4,421.68	17.84	15.16	-112.65	4,640.85	28.92	4,854.42	4,821.71	32.71	148.402	
4,900.00	4,801.33	4,519.87	4,508.68	18.23	15.47	-113.05	4,644.19	13.69	4,870.59	4,837.19	33.40	145.824	
5,000.00	4,898.45	4,617.62	4,604.84	18.62	15.82	-113.49	4,647.81	-3.48	4,887.02	4,852.89	34.13	143.194	
5,100.00	4,995.57	4,735.87	4,721.13	19.02	16.24	-114.02	4,651.65	-24.55	4,903.36	4,868.42	34.94	140.328	
5,200.00	5,092.69	14,421.95	9,896.64	19.41	50.76	173.24	-143.11	-197.18	4,891.05	4,839.55	51.50	94.970	
5,300.00	5,189.81	14,427.40	9,896.68	19.80	50.79	173.10	-148.57	-197.16	4,801.58	4,749.69	51.89	92.535	
5,400.00	5,286.93	14,432.92	9,896.72	20.20	50.82	172.95	-154.09	-197.13	4,712.51	4,660.22	52.29	90.122	
5,500.00	5,384.05	14,438.52	9,896.76	20.59	50.86	172.80	-159.69	-197.10	4,623.89	4,571.18	52.71	87.731	
5,600.00	5,481.17	14,444.20	9,896.81	20.98	50.89	172.66	-165.36	-197.07	4,535.73	4,482.59	53.13	85.364	
5,700.00	5,578.29	14,449.95	9,896.85	21.38	50.92	172.51	-171.11	-197.03	4,448.06	4,394.48	53.58	83.020	
5,800.00	5,675.41	14,460.00	9,896.94	21.77	50.98	172.24	-181.17	-196.97	4,360.91	4,306.84	54.07	80.658	
5,900.00	5,772.53	14,460.00	9,896.94	22.16	50.98	172.24	-181.17	-196.97	4,274.31	4,219.81	54.50	78.423	
6,000.00	5,869.65	14,460.00	9,896.94	22.56	50.98	172.24	-181.17	-196.97	4,188.31	4,133.35	54.96	76.211	
6,100.00	5,966.77	14,460.00	9,896.94	22.95	50.98	172.24	-181.17	-196.97	4,102.95	4,047.52	55.43	74.022	
6,200.00	6,063.89	14,476.56	9,897.11	23.35	51.07	171.81	-197.72	-196.84	4,018.21	3,962.18	56.03	71.714	
6,300.00	6,161.01	14,481.84	9,897.18	23.74	51.10	171.67	-203.00	-196.80	3,934.20	3,877.62	56.58	69.537	
6,400.00	6,258.13	14,487.24	9,897.25	24.14	51.13	171.53	-208.40	-196.75	3,850.94	3,793.80	57.14	67.389	
6,500.00	6,355.25	14,492.75	9,897.32	24.53	51.16	171.38	-213.92	-196.70	3,768.49	3,710.75	57.74	65.271	
6,600.00	6,452.37	14,498.40	9,897.40	24.92	51.20	171.23	-219.56	-196.65	3,686.89	3,628.54	58.35	63.185	
6,700.00	6,549.49	14,504.17	9,897.49	25.32	51.23	171.08	-225.33	-196.59	3,606.21	3,547.22	58.99	61.131	
6,800.00	6,646.61	14,510.07	9,897.58	25.71	51.26	170.92	-231.23	-196.53	3,526.51	3,466.85	59.66	59.111	
6,900.00	6,743.73	14,516.12	9,897.69	26.11	51.30	170.76	-237.28	-196.46	3,447.85	3,387.49	60.35	57.127	
7,000.00	6,840.85	14,522.30	9,897.80	26.50	51.33	170.60	-243.46	-196.39	3,370.30	3,309.22	61.08	55.180	
7,100.00	6,937.97	14,528.64	9,897.91	26.90	51.37	170.43	-249.79	-196.32	3,293.95	3,232.12	61.83	53.271	
7,200.00	7,035.09	14,535.13	9,898.04	27.29	51.41	170.26	-256.28	-196.24	3,218.88	3,156.26	62.62	51.402	
7,300.00	7,132.21	14,541.77	9,898.18	27.69	51.44	170.09	-262.93	-196.15	3,145.19	3,081.74	63.44	49.576	
7,400.00	7,229.33	14,553.00	9,898.42	28.08	51.51	169.79	-274.15	-196.00	3,072.96	3,008.63	64.32	47.773	
7,500.00	7,326.45	14,558.38	9,898.54	28.48	51.54	169.65	-279.53	-195.93	3,002.30	2,937.09	65.20	46.044	
7,600.00	7,423.57	14,572.39	9,898.82	28.87	51.62	169.28	-293.53	-195.74	2,933.31	2,867.13	66.17	44.328	
7,700.00	7,520.69	14,585.42	9,899.04	29.27	51.69	168.93	-306.56	-195.59	2,866.11	2,798.94	67.17	42.669	
7,700.27	7,520.96	14,585.45	9,899.04	29.27	51.69	168.93	-306.59	-195.59	2,865.93	2,798.75	67.17	42.665	
7,800.00	7,618.21	14,596.88	9,899.20	29.66	51.76	168.27	-318.02	-195.46	2,799.54	2,731.36	68.18	41.061	
7,900.00	7,716.43	14,606.26	9,899.32	30.04	51.81	167.63	-327.40	-195.37	2,732.38	2,663.20	69.18	39.495	
8,000.00	7,815.25	14,613.73	9,899.40	30.41	51.86	167.01	-334.87	-195.30	2,664.68	2,594.51	70.18	37.970	
8,100.00	7,914.55	14,619.47	9,899.45	30.78	51.89	166.41	-340.61	-195.25	2,596.50	2,525.33	71.16	36.486	
8,200.00	8,014.19	14,623.63	9,899.49	31.13	51.91	165.83	-344.76	-195.21	2,527.88	2,455.74	72.14	35.040	
8,300.00	8,114.07	14,626.33	9,899.51	31.47	51.93	165.27	-347.47	-195.19	2,458.89	2,385.77	73.11	33.632	
8,389.47	8,203.52	14,627.62	9,899.51	31.77	51.94	-90.09	-348.75	-195.18	2,396.89	2,322.92	73.97	32.405	
8,400.00	8,214.05	14,627.83	9,899.52	31.80	51.94	91.17	-348.97	-195.18	2,389.59	2,315.52	74.07	32.262	
8,450.00	8,263.94	14,632.13	9,899.54	31.95	51.96	95.72	-353.27	-195.14	2,355.35	2,280.78	74.57	31.585	
8,500.00	8,313.37	14,641.68	9,899.59	32.11	52.02	99.85	-362.81	-195.07	2,321.99	2,246.88	75.11	30.914	
8,550.00	8,361.96	14,656.20	9,899.62	32.27	52.10	103.53	-377.34	-194.98	2,289.75	2,214.06	75.69	30.252	
8,600.00	8,409.35	14,675.40	9,899.69	32.42	52.21	106.76	-396.54	-194.81	2,258.85	2,182.56	76.29	29.607	
8,650.00	8,455.17	14,699.60	9,899.75	32.57	52.35	109.55	-420.73	-194.56	2,229.48	2,152.56	76.93	28.982	
8,700.00	8,499.07	14,728.47	9,899.81	32.71	52.52	111.93	-449.60	-194.19	2,201.80	2,124.22	77.58	28.382	
8,750.00	8,540.73	14,759.99	9,899.88	32.85	52.70	113.97	-481.11	-193.71	2,175.95	2,097.71	78.24	27.812	
8,800.00	8,579.82	14,794.45	9,899.96	32.99	52.90	115.72	-515.58	-193.11	2,152.05	2,073.15	78.90	27.275	
8,850.00	8,616.04	14,832.59	9,900.08	33.11	53.12	117.17	-553.70	-192.35	2,130.19	2,050.63	79.57	26.772	
8,900.00	8,649.13	14,862.18	9,900.18	33.24	53.30	118.55	-583.29	-191.79	2,110.55	2,030.37	80.17	26.326	
8,950.00	8,678.82	14,893.43	9,900.25	33.36	53.48	119.70	-614.54	-191.38	2,093.30	2,012.54	80.76	25.920	
9,000.00	8,704.90	14,928.00	9,900.30	33.47	53.68	120.59	-649.10	-191.14	2,078.53	1,997.18	81.34	25.552	
9,050.00	8,727.16	14,971.74	9,900.35	33.58	53.94	121.21	-692.85	-190.96	2,066.19	1,984.23	81.95	25.212	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 16H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,745.44	15,019.21	9,900.40	33.70	54.22	121.66	-740.31	-190.74	2,056.17	1,973.62	82.55	24.909	
9,139.47	8,756.95	15,060.24	9,900.46	33.78	54.46	121.92	-781.34	-190.49	2,049.87	1,966.86	83.01	24.693	
9,200.00	8,771.07	15,123.76	9,900.61	33.92	54.84	121.90	-844.86	-189.91	2,042.09	1,958.39	83.71	24.396	
9,300.00	8,787.52	15,222.92	9,900.73	34.14	55.43	121.92	-944.02	-188.94	2,032.91	1,948.14	84.77	23.983	
9,400.00	8,795.32	15,323.28	9,900.79	34.37	56.04	121.93	-1,044.37	-188.01	2,028.40	1,942.63	85.77	23.650	
9,439.47	8,796.00	15,366.84	9,900.77	34.46	56.30	121.94	-1,087.93	-187.56	2,027.83	1,941.66	86.16	23.534	
9,500.00	8,796.00	15,424.50	9,900.64	34.60	56.65	121.94	-1,145.59	-186.93	2,027.42	1,940.70	86.72	23.379	
9,558.36	8,796.00	15,472.83	9,900.48	34.74	56.95	121.94	-1,193.91	-186.67	2,027.28	1,940.06	87.22	23.243	
9,600.00	8,796.00	15,514.11	9,900.33	34.85	57.20	121.93	-1,235.19	-186.63	2,027.32	1,939.70	87.62	23.137	
9,700.00	8,796.00	15,627.55	9,900.09	35.10	57.89	121.93	-1,348.63	-185.79	2,026.95	1,938.26	88.68	22.856	
9,800.00	8,796.00	15,730.00	9,899.75	35.37	58.53	121.94	-1,451.08	-184.63	2,026.18	1,936.49	89.69	22.590	
9,900.00	8,796.00	15,849.19	9,899.03	35.65	59.27	121.93	-1,570.25	-183.08	2,025.16	1,934.34	90.83	22.297	
10,000.00	8,796.00	15,928.38	9,898.73	35.94	59.76	121.94	-1,649.42	-181.61	2,023.80	1,932.08	91.73	22.064	
10,100.00	8,796.00	16,030.41	9,898.38	36.24	60.40	121.94	-1,751.45	-180.86	2,023.39	1,930.60	92.79	21.807	
10,200.00	8,796.00	16,119.47	9,898.16	36.55	60.97	121.94	-1,840.51	-179.89	2,022.72	1,928.94	93.77	21.570	
10,300.00	8,796.00	16,239.84	9,898.05	36.88	61.73	121.95	-1,960.87	-178.73	2,022.28	1,927.30	94.98	21.291	
10,400.00	8,796.00	16,334.00	9,897.84	37.22	62.33	121.96	-2,055.02	-177.24	2,021.19	1,925.16	96.03	21.047	
10,500.00	8,796.00	16,424.01	9,897.43	37.57	62.90	121.96	-2,145.02	-176.38	2,020.51	1,923.44	97.07	20.815	
10,600.00	8,796.00	16,522.00	9,897.01	37.93	63.53	121.95	-2,243.01	-175.67	2,020.05	1,921.88	98.17	20.577	
10,638.61	8,796.00	16,553.11	9,896.89	38.07	63.73	121.95	-2,274.12	-175.52	2,019.96	1,921.40	98.55	20.496	
10,700.00	8,796.00	16,599.99	9,896.66	38.29	64.04	121.94	-2,320.99	-175.65	2,020.18	1,921.03	99.14	20.376	
10,800.00	8,796.00	16,731.38	9,895.61	38.68	64.89	121.90	-2,452.38	-175.61	2,020.09	1,919.58	100.52	20.097	
10,900.00	8,796.00	16,820.26	9,895.15	39.07	65.46	121.90	-2,541.25	-175.05	2,019.65	1,918.06	101.59	19.880	
11,000.00	8,796.00	16,932.60	9,894.05	39.47	66.20	121.87	-2,653.58	-174.23	2,018.87	1,916.02	102.85	19.629	
11,100.00	8,796.00	17,017.46	9,893.59	39.88	66.75	121.87	-2,738.44	-173.51	2,018.25	1,914.33	103.92	19.421	
11,110.86	8,796.00	17,025.39	9,893.55	39.92	66.81	121.87	-2,746.37	-173.49	2,018.24	1,914.21	104.03	19.401	
11,200.00	8,796.00	17,094.08	9,893.13	40.30	67.26	121.85	-2,815.06	-173.94	2,018.76	1,913.84	104.93	19.239	
11,300.00	8,796.00	17,236.26	9,891.78	40.73	68.20	121.80	-2,957.22	-173.97	2,018.62	1,912.17	106.45	18.963	
11,400.00	8,796.00	17,340.64	9,890.62	41.16	68.89	121.79	-3,061.59	-172.55	2,017.24	1,909.55	107.70	18.731	
11,455.44	8,796.00	17,370.00	9,890.04	41.41	69.08	121.78	-3,090.94	-172.35	2,016.71	1,908.53	108.17	18.643	
11,500.00	8,796.00	17,370.00	9,890.04	41.61	69.08	121.78	-3,090.94	-172.35	2,017.20	1,908.85	108.36	18.617	
11,600.00	8,796.00	17,428.37	9,888.81	42.07	69.47	121.72	-3,149.27	-173.91	2,019.45	1,910.23	109.22	18.490	
11,700.00	8,796.00	17,464.00	9,888.11	42.53	69.70	121.66	-3,184.78	-176.67	2,025.34	1,915.51	109.83	18.441	
11,800.00	8,796.00	17,752.21	9,890.00	43.00	71.63	121.65	-3,472.76	-179.36	2,024.43	1,911.71	112.72	17.960	
11,900.00	8,796.00	17,860.04	9,890.23	43.48	72.36	121.69	-3,580.54	-176.12	2,022.36	1,908.33	114.02	17.736	
12,000.00	8,796.00	17,957.30	9,890.77	43.97	73.01	121.75	-3,677.74	-172.85	2,020.16	1,904.90	115.25	17.528	
12,100.00	8,796.00	18,054.35	9,891.11	44.46	73.67	121.79	-3,774.76	-170.04	2,018.26	1,901.77	116.49	17.325	
12,200.00	8,796.00	18,154.19	9,891.21	44.97	74.35	121.83	-3,874.55	-166.93	2,016.04	1,898.28	117.76	17.120	
12,300.00	8,796.00	18,228.42	9,891.52	45.47	74.85	121.86	-3,948.76	-165.28	2,014.75	1,895.91	118.84	16.954	
12,355.36	8,796.00	18,270.51	9,891.74	45.76	75.14	121.87	-3,990.84	-164.80	2,014.57	1,895.12	119.44	16.867	CC
12,400.00	8,796.00	18,310.00	9,891.89	45.99	75.41	121.88	-4,030.33	-164.67	2,014.69	1,894.72	119.97	16.793	
12,500.00	8,796.00	18,396.75	9,892.37	46.51	76.00	121.88	-4,117.08	-164.77	2,015.44	1,894.29	121.15	16.636	ES
12,600.00	8,796.00	18,469.24	9,892.90	47.04	76.50	121.88	-4,189.57	-165.44	2,016.99	1,894.79	122.20	16.505	
12,700.00	8,796.00	18,547.05	9,893.21	47.58	77.03	121.85	-4,267.34	-167.58	2,019.89	1,896.59	123.30	16.382	
12,800.00	8,796.00	18,648.09	9,892.60	48.12	77.72	121.76	-4,368.29	-171.78	2,023.48	1,898.86	124.63	16.237	
12,900.00	8,796.00	18,764.27	9,891.66	48.66	78.51	121.67	-4,484.39	-175.90	2,026.46	1,900.35	126.11	16.070	
13,000.00	8,796.00	18,873.00	9,891.13	49.22	79.25	121.62	-4,593.10	-178.39	2,028.50	1,900.99	127.51	15.908	
13,100.00	8,796.00	18,967.00	9,890.93	49.77	79.90	121.57	-4,687.07	-180.70	2,030.85	1,902.07	128.79	15.769	
13,200.00	8,796.00	19,094.67	9,890.24	50.34	80.78	121.51	-4,814.71	-182.94	2,032.41	1,902.03	130.38	15.588	
13,209.11	8,796.00	19,102.11	9,890.20	50.39	80.83	121.51	-4,822.15	-183.02	2,032.51	1,902.02	130.49	15.576	
13,250.00	8,796.00	19,135.44	9,890.05	50.62	81.06	121.56	-4,855.48	-183.47	2,034.20	1,903.23	130.97	15.532	
13,300.00	8,796.00	19,183.22	9,889.91	50.92	81.39	121.73	-4,903.25	-184.25	2,039.58	1,907.95	131.63	15.495	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 16H - OH - Svy — **Offset Site Error:** 0.00 usft

Survey Program: 201-MWD+IFR1+MS — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,350.00	8,796.00	19,237.76	9,889.53	51.22	81.77	121.99	-4,957.78	-185.16	2,048.31	1,915.95	132.37	15.475	
13,400.00	8,796.00	19,310.73	9,888.84	51.52	82.28	122.26	-5,030.74	-185.91	2,060.14	1,926.87	133.27	15.458	
13,450.00	8,796.00	19,395.46	9,888.34	51.83	82.87	122.56	-5,115.47	-185.05	2,074.60	1,940.33	134.27	15.451	SF
13,500.00	8,796.00	19,452.16	9,888.19	52.14	83.26	123.13	-5,172.14	-183.38	2,091.61	1,956.59	135.02	15.491	
13,550.00	8,796.00	19,485.00	9,888.09	52.45	83.49	124.02	-5,204.97	-182.63	2,112.09	1,976.51	135.58	15.578	
13,600.00	8,796.00	19,515.24	9,887.98	52.75	83.70	125.16	-5,235.21	-182.14	2,135.92	1,999.80	136.12	15.691	
13,650.00	8,796.00	19,524.00	9,887.95	53.04	83.76	126.83	-5,243.97	-182.00	2,162.96	2,026.51	136.46	15.851	
13,700.00	8,796.00	19,524.00	9,887.95	53.33	83.76	129.04	-5,243.97	-182.00	2,193.43	2,056.75	136.68	16.048	
13,750.00	8,796.00	19,524.00	9,887.95	53.61	83.76	131.79	-5,243.97	-182.00	2,227.00	2,090.13	136.87	16.271	
13,800.00	8,796.00	19,524.00	9,887.95	53.87	83.76	135.20	-5,243.97	-182.00	2,263.31	2,126.28	137.03	16.517	
13,850.00	8,796.00	19,524.00	9,887.95	54.12	83.76	139.40	-5,243.97	-182.00	2,301.99	2,164.82	137.17	16.782	
13,900.00	8,796.00	19,524.00	9,887.95	54.35	83.76	144.56	-5,243.97	-182.00	2,342.69	2,205.40	137.29	17.063	
13,950.00	8,796.00	19,524.00	9,887.95	54.56	83.76	150.85	-5,243.97	-182.00	2,385.04	2,247.63	137.40	17.358	
14,000.00	8,796.00	19,524.00	9,887.95	54.76	83.76	158.40	-5,243.97	-182.00	2,428.66	2,291.15	137.51	17.662	
14,050.00	8,796.00	19,524.00	9,887.95	54.93	83.76	167.17	-5,243.97	-182.00	2,473.22	2,335.61	137.61	17.973	
14,100.00	8,796.00	19,524.00	9,887.95	55.08	83.76	176.89	-5,243.97	-182.00	2,518.37	2,380.67	137.70	18.288	
14,150.00	8,796.00	19,524.00	9,887.95	55.20	83.76	-172.97	-5,243.97	-182.00	2,563.80	2,426.00	137.80	18.606	
14,200.00	8,796.00	19,524.00	9,887.95	55.31	83.76	-163.09	-5,243.97	-182.00	2,609.18	2,471.29	137.89	18.922	
14,250.00	8,796.00	19,524.00	9,887.95	55.39	83.76	-154.05	-5,243.97	-182.00	2,654.24	2,516.26	137.98	19.236	
14,300.00	8,796.00	19,524.00	9,887.95	55.45	83.76	-146.18	-5,243.97	-182.00	2,698.69	2,560.61	138.07	19.545	
14,350.00	8,796.00	19,524.00	9,887.95	55.48	83.76	-139.56	-5,243.97	-182.00	2,742.28	2,604.11	138.16	19.848	
14,400.00	8,796.00	19,524.00	9,887.95	55.49	83.76	-134.07	-5,243.97	-182.00	2,784.75	2,646.50	138.25	20.143	
14,450.00	8,796.00	19,524.00	9,887.95	55.48	83.76	-129.55	-5,243.97	-182.00	2,825.90	2,687.56	138.33	20.428	
14,500.00	8,796.00	19,524.00	9,887.95	55.45	83.76	-125.84	-5,243.97	-182.00	2,865.50	2,727.09	138.41	20.703	
14,550.00	8,796.00	19,524.00	9,887.95	55.40	83.76	-122.79	-5,243.97	-182.00	2,903.36	2,764.88	138.48	20.966	
14,600.00	8,796.00	19,524.00	9,887.95	55.33	83.76	-120.26	-5,243.97	-182.00	2,939.30	2,800.75	138.54	21.216	
14,650.00	8,796.00	19,524.00	9,887.95	55.25	83.76	-118.16	-5,243.97	-182.00	2,973.15	2,834.56	138.60	21.452	
14,700.00	8,796.00	19,524.00	9,887.95	55.15	83.76	-116.41	-5,243.97	-182.00	3,004.77	2,866.14	138.64	21.674	
14,750.00	8,796.00	19,521.56	9,887.96	55.04	83.75	-114.93	-5,241.53	-182.04	3,034.02	2,895.38	138.64	21.884	
14,800.00	8,796.00	19,485.00	9,888.09	54.92	83.49	-113.55	-5,204.97	-182.63	3,060.46	2,922.14	138.32	22.126	
14,850.00	8,796.00	19,462.21	9,888.16	54.79	83.33	-112.49	-5,182.18	-183.11	3,083.87	2,945.74	138.13	22.326	
14,900.00	8,796.00	19,405.59	9,888.35	54.65	82.94	-111.54	-5,125.59	-184.51	3,104.09	2,966.46	137.63	22.554	
14,950.00	8,796.00	19,269.23	9,889.20	54.51	81.99	-110.67	-4,989.25	-185.63	3,120.38	2,984.01	136.37	22.882	
15,000.00	8,796.00	19,202.43	9,889.81	54.37	81.53	-110.19	-4,922.46	-184.57	3,131.67	2,995.88	135.79	23.063	
15,050.00	8,796.00	19,156.00	9,890.00	54.22	81.20	-109.91	-4,876.03	-183.80	3,139.10	3,003.68	135.42	23.181	
15,099.11	8,796.00	19,113.48	9,890.14	54.08	80.91	-109.77	-4,833.52	-183.17	3,142.77	3,007.68	135.09	23.264	
15,100.00	8,796.00	19,112.81	9,890.14	54.08	80.91	-109.77	-4,832.85	-183.16	3,142.80	3,007.72	135.09	23.265	
15,200.00	8,796.00	18,967.00	9,890.93	53.80	79.90	-109.75	-4,687.07	-180.70	3,144.88	3,011.03	133.85	23.495	
15,263.03	8,796.00	18,914.85	9,891.03	53.63	79.54	-109.77	-4,634.93	-179.24	3,143.68	3,010.20	133.49	23.550	
15,300.00	8,796.00	18,890.03	9,891.09	53.53	79.37	-109.78	-4,610.12	-178.70	3,142.81	3,009.47	133.33	23.571	
15,400.00	8,796.00	18,768.41	9,891.63	53.27	78.54	-109.81	-4,488.53	-176.02	3,140.52	3,008.14	132.38	23.724	
15,500.00	8,796.00	18,631.17	9,892.76	53.02	77.60	-109.86	-4,351.39	-171.08	3,136.99	3,005.71	131.28	23.896	
15,600.00	8,796.00	18,543.09	9,893.21	52.78	77.00	-109.89	-4,263.39	-167.44	3,132.90	3,002.21	130.69	23.972	
15,700.00	8,796.00	18,478.18	9,892.95	52.54	76.56	-109.90	-4,198.51	-165.62	3,129.75	2,999.41	130.34	24.012	
15,800.00	8,796.00	18,404.00	9,892.43	52.31	76.05	-109.90	-4,124.33	-164.79	3,127.93	2,998.04	129.90	24.080	
15,900.00	8,796.00	18,337.56	9,892.01	52.09	75.60	-109.89	-4,057.89	-164.70	3,127.03	2,997.51	129.52	24.143	
15,980.98	8,796.00	18,277.25	9,891.77	51.92	75.19	-109.89	-3,997.58	-164.76	3,126.70	2,997.54	129.16	24.208	
16,000.00	8,796.00	18,265.07	9,891.71	51.88	75.10	-109.89	-3,985.41	-164.84	3,126.72	2,997.62	129.09	24.221	
16,100.00	8,796.00	18,216.00	9,891.45	51.68	74.77	-109.88	-3,936.34	-165.49	3,127.57	2,998.70	128.86	24.270	
16,200.00	8,796.00	18,122.00	9,891.17	51.49	74.13	-109.86	-3,842.37	-167.94	3,129.51	3,001.26	128.25	24.402	
16,300.00	8,796.00	18,029.00	9,891.06	51.30	73.50	-109.85	-3,749.41	-170.74	3,131.88	3,004.22	127.65	24.534	
16,400.00	8,796.00	17,934.00	9,890.62	51.13	72.86	-109.82	-3,654.46	-173.63	3,134.18	3,007.13	127.05	24.669	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 16H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,500.00	8,796.00	17,837.65	9,890.15	50.96	72.21	-109.80	-3,558.17	-176.85	3,136.76	3,010.31	126.45	24.807	
16,600.00	8,796.00	17,716.47	9,889.97	50.80	71.39	-109.78	-3,437.03	-180.27	3,138.96	3,013.30	125.66	24.979	
16,700.00	8,796.00	17,420.38	9,888.97	50.65	69.42	-109.81	-3,141.29	-173.48	3,133.50	3,010.12	123.38	25.397	
16,800.00	8,796.00	17,370.00	9,890.04	50.51	69.08	-109.84	-3,090.94	-172.35	3,130.81	3,007.54	123.27	25.397	
16,887.64	8,796.00	17,370.00	9,890.04	50.40	69.08	-109.84	-3,090.94	-172.35	3,129.59	3,006.05	123.53	25.334	
16,900.00	8,796.00	17,370.00	9,890.04	50.38	69.08	-109.84	-3,090.94	-172.35	3,129.61	3,006.05	123.56	25.328	
17,000.00	8,796.00	17,299.34	9,891.22	50.26	68.61	-109.86	-3,020.30	-173.02	3,130.61	3,007.37	123.24	25.402	
17,100.00	8,796.00	17,144.26	9,892.71	50.15	67.59	-109.88	-2,865.23	-174.34	3,131.48	3,009.21	122.27	25.612	
17,200.00	8,796.00	17,042.82	9,893.47	50.05	66.92	-109.90	-2,763.80	-173.50	3,130.54	3,008.81	121.74	25.716	
17,236.85	8,796.00	17,020.76	9,893.57	50.02	66.78	-109.90	-2,741.74	-173.50	3,130.46	3,008.79	121.66	25.730	
17,300.00	8,796.00	16,977.98	9,893.73	49.97	66.50	-109.90	-2,698.96	-173.81	3,130.70	3,009.20	121.50	25.768	
17,400.00	8,796.00	16,879.18	9,894.69	49.89	65.85	-109.92	-2,600.18	-174.68	3,131.45	3,010.45	121.00	25.879	
17,500.00	8,796.00	16,769.81	9,895.34	49.82	65.14	-109.93	-2,490.80	-175.31	3,131.78	3,011.33	120.44	26.003	
17,600.00	8,796.00	16,629.36	9,896.49	49.76	64.23	-109.95	-2,350.36	-175.92	3,132.27	3,012.62	119.66	26.177	
17,700.00	8,796.00	16,554.09	9,896.89	49.72	63.74	-109.96	-2,275.09	-175.52	3,131.60	3,012.22	119.39	26.231	
17,709.85	8,796.00	16,547.74	9,896.92	49.71	63.70	-109.96	-2,268.75	-175.53	3,131.60	3,012.23	119.37	26.235	
17,800.00	8,796.00	16,470.63	9,897.21	49.68	63.20	-109.96	-2,191.63	-176.06	3,131.91	3,012.85	119.05	26.306	
17,900.00	8,796.00	16,378.18	9,897.65	49.66	62.61	-109.97	-2,099.19	-176.76	3,132.38	3,013.71	118.67	26.396	
18,000.00	8,796.00	16,292.83	9,897.98	49.65	62.07	-109.97	-2,013.85	-177.81	3,133.27	3,014.93	118.34	26.478	
18,100.00	8,796.00	16,164.04	9,898.09	49.65	61.25	-109.96	-1,885.08	-179.69	3,134.36	3,016.65	117.71	26.628	
18,200.00	8,796.00	16,079.85	9,898.24	49.66	60.72	-109.96	-1,800.89	-180.23	3,134.65	3,017.24	117.41	26.698	
18,300.00	8,796.00	15,959.00	9,898.62	49.69	59.96	-109.97	-1,680.04	-181.40	3,135.31	3,018.44	116.88	26.826	
18,400.00	8,796.00	15,898.83	9,898.83	49.73	59.58	-109.97	-1,619.87	-182.01	3,135.99	3,019.23	116.76	26.859	
18,500.00	8,796.00	15,782.35	9,899.41	49.78	58.85	-109.97	-1,503.42	-184.15	3,137.55	3,021.28	116.28	26.983	
18,600.00	8,796.00	15,683.69	9,899.95	49.84	58.24	-109.97	-1,404.76	-185.14	3,138.29	3,022.36	115.93	27.071	
18,700.00	8,796.00	15,570.10	9,900.19	49.92	57.54	-109.97	-1,291.18	-186.35	3,138.96	3,023.47	115.49	27.179	
18,791.24	8,796.00	15,466.31	9,900.51	50.00	56.91	-109.98	-1,187.39	-186.69	3,138.94	3,023.83	115.11	27.269	
18,800.00	8,796.00	15,459.90	9,900.53	50.01	56.87	-109.98	-1,180.98	-186.71	3,138.94	3,023.85	115.10	27.272	
18,900.00	8,796.00	15,380.87	9,900.75	50.12	56.39	-109.98	-1,101.96	-187.40	3,139.43	3,024.53	114.91	27.322	
19,000.00	8,796.00	15,271.08	9,900.75	50.24	55.72	-109.98	-992.17	-188.50	3,139.96	3,025.43	114.53	27.415	
19,100.00	8,796.00	15,172.52	9,900.71	50.37	55.13	-109.97	-893.62	-189.41	3,140.42	3,026.18	114.24	27.489	
19,200.00	8,796.00	15,065.18	9,900.46	50.51	54.49	-109.97	-786.28	-190.46	3,140.86	3,026.95	113.91	27.574	
19,300.00	8,796.00	14,956.00	9,900.33	50.67	53.85	-109.96	-677.10	-191.03	3,140.90	3,027.32	113.58	27.654	
19,329.54	8,796.00	14,928.00	9,900.30	50.72	53.68	-109.96	-649.10	-191.14	3,140.88	3,027.37	113.51	27.671	
19,400.00	8,796.00	14,880.03	9,900.22	50.85	53.40	-109.96	-601.13	-191.54	3,141.11	3,027.66	113.45	27.686	
19,500.00	8,796.00	14,797.42	9,899.97	51.03	52.92	-109.95	-518.54	-193.05	3,142.29	3,029.00	113.29	27.736	
19,600.00	8,796.00	14,667.03	9,899.66	51.23	52.16	-109.94	-388.17	-194.88	3,143.14	3,030.26	112.88	27.845	
19,634.41	8,796.00	14,626.98	9,899.51	51.30	51.93	-109.93	-348.11	-195.18	3,143.20	3,030.43	112.77	27.874	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 17H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	31.33	31.33	0.00	0.05	1.73	4,644.96	140.36	4,647.08				
100.00	100.00	128.63	128.63	0.28	0.20	1.73	4,645.01	140.21	4,647.13	4,646.65	0.48	9,677.139	
200.00	200.00	223.95	223.95	0.63	0.40	1.72	4,645.13	139.89	4,647.24	4,646.21	1.04	4,486.474	
300.00	300.00	315.12	315.11	0.99	0.73	1.72	4,645.41	139.23	4,647.53	4,645.81	1.72	2,700.211	
400.00	400.00	409.89	409.88	1.35	1.07	1.70	4,645.80	138.27	4,647.91	4,645.49	2.42	1,921.765	
500.00	500.00	478.00	477.99	1.71	1.31	1.70	4,646.27	137.93	4,648.63	4,645.61	3.02	1,540.092	
600.00	599.98	569.00	568.98	2.07	1.63	1.70	4,647.40	137.95	4,648.14	4,644.44	3.70	1,257.453	
700.00	699.84	635.37	635.34	2.43	1.86	1.70	4,648.60	137.98	4,644.67	4,640.38	4.29	1,082.245	
750.00	749.68	669.93	669.89	2.61	1.99	1.71	4,649.37	137.91	4,641.87	4,637.28	4.60	1,010.005	
800.00	799.49	704.48	704.42	2.79	2.11	1.71	4,650.27	137.79	4,638.80	4,633.91	4.90	947.061	
900.00	899.11	813.33	813.23	3.15	2.50	1.70	4,653.44	137.24	4,633.00	4,627.36	5.64	820.740	
1,000.00	998.73	994.26	994.14	3.51	3.14	1.71	4,656.49	137.37	4,625.99	4,619.34	6.65	695.755	
1,001.27	1,000.00	996.68	996.56	3.51	3.15	1.71	4,656.51	137.36	4,625.89	4,619.23	6.66	694.364	
1,100.00	1,098.41	1,173.07	1,172.93	3.87	3.76	-21.34	4,656.11	135.72	4,617.76	4,610.13	7.63	605.282	
1,200.00	1,198.13	1,287.72	1,287.57	4.22	4.16	-48.07	4,654.94	134.53	4,610.68	4,602.30	8.38	550.419	
1,300.00	1,297.78	1,393.98	1,393.81	4.58	4.52	-69.23	4,653.55	133.40	4,605.10	4,596.01	9.09	506.413	
1,400.00	1,397.23	1,481.60	1,481.42	4.93	4.82	-82.89	4,652.45	132.64	4,601.43	4,591.68	9.75	472.112	
1,500.00	1,496.35	1,584.02	1,583.83	5.28	5.18	-91.60	4,651.31	131.86	4,599.76	4,589.31	10.45	440.146	
1,525.31	1,521.37	1,594.00	1,593.81	5.36	5.22	-93.26	4,651.19	131.79	4,599.64	4,589.07	10.57	434.968	
1,600.00	1,595.04	1,644.48	1,644.29	5.63	5.39	-97.34	4,650.79	131.43	4,600.27	4,589.26	11.02	417.635	
1,700.00	1,693.16	1,703.41	1,703.22	5.98	5.60	-101.34	4,650.86	130.94	4,603.60	4,592.03	11.58	397.652	
1,792.67	1,783.48	1,771.11	1,770.91	6.31	5.84	-104.12	4,651.36	130.17	4,609.00	4,596.85	12.15	379.414	
1,800.00	1,790.60	1,783.00	1,782.80	6.34	5.88	-104.15	4,651.48	130.01	4,609.52	4,597.30	12.22	377.323	
1,900.00	1,887.72	1,882.36	1,882.15	6.70	6.24	-104.45	4,652.43	128.95	4,616.53	4,603.60	12.93	357.117	
2,000.00	1,984.84	2,008.87	2,008.64	7.06	6.67	-104.80	4,653.08	130.23	4,623.25	4,609.52	13.72	336.899	
2,100.00	2,081.96	2,119.74	2,119.45	7.43	7.05	-105.07	4,653.03	133.80	4,629.49	4,615.03	14.46	320.105	
2,200.00	2,179.08	2,232.54	2,232.25	7.80	7.43	-105.38	4,652.81	135.32	4,635.71	4,620.50	15.21	304.732	
2,300.00	2,276.20	2,333.26	2,332.96	8.17	7.78	-105.65	4,652.28	135.97	4,641.71	4,625.79	15.93	291.469	
2,400.00	2,373.32	2,394.43	2,394.13	8.55	7.99	-105.82	4,652.14	136.22	4,648.15	4,631.64	16.51	281.546	
2,500.00	2,470.44	2,442.00	2,441.70	8.93	8.15	-105.96	4,652.44	136.06	4,655.58	4,638.54	17.05	273.096	
2,600.00	2,567.56	2,495.00	2,494.68	9.30	8.34	-106.12	4,653.47	135.08	4,664.29	4,646.68	17.61	264.911	
2,700.00	2,664.68	2,552.02	2,551.65	9.68	8.54	-106.30	4,655.14	133.39	4,674.07	4,655.89	18.18	257.088	
2,800.00	2,761.80	2,642.00	2,641.55	10.07	8.86	-106.58	4,657.95	130.93	4,684.28	4,665.41	18.87	248.179	
2,900.00	2,858.92	2,739.32	2,738.78	10.45	9.21	-106.89	4,661.04	128.32	4,694.70	4,675.10	19.60	239.568	
3,000.00	2,956.04	2,943.12	2,942.36	10.83	9.93	-107.55	4,665.04	119.69	4,704.23	4,683.52	20.71	227.188	
3,100.00	3,053.16	3,031.50	3,030.61	11.22	10.24	-107.85	4,665.83	115.13	4,712.87	4,691.47	21.40	220.240	
3,200.00	3,150.29	3,130.28	3,129.24	11.60	10.60	-108.19	4,666.64	109.75	4,721.61	4,699.48	22.13	213.363	
3,300.00	3,247.41	3,231.60	3,230.40	11.99	10.96	-108.53	4,667.34	103.95	4,730.42	4,707.55	22.87	206.837	
3,400.00	3,344.53	3,347.88	3,346.25	12.38	11.37	-108.97	4,667.69	94.02	4,739.26	4,715.59	23.67	200.258	
3,500.00	3,441.65	3,455.82	3,453.54	12.76	11.76	-109.40	4,667.17	82.33	4,747.69	4,723.26	24.43	194.324	
3,600.00	3,538.77	3,540.77	3,537.97	13.15	12.06	-109.74	4,666.81	72.90	4,756.45	4,731.33	25.12	189.382	
3,700.00	3,635.89	3,630.66	3,627.09	13.54	12.38	-110.12	4,666.42	61.18	4,765.61	4,739.79	25.82	184.585	
3,800.00	3,733.01	3,703.74	3,699.40	13.93	12.64	-110.44	4,666.03	50.63	4,775.11	4,748.65	26.46	180.472	
3,900.00	3,830.13	3,751.72	3,746.79	14.32	12.82	-110.65	4,666.11	43.11	4,785.62	4,758.62	27.01	177.208	
4,000.00	3,927.25	3,818.94	3,813.04	14.71	13.06	-110.96	4,666.72	31.77	4,797.18	4,769.56	27.62	173.668	
4,100.00	4,024.37	3,976.16	3,967.45	15.10	13.62	-111.72	4,667.26	2.24	4,808.98	4,780.40	28.58	168.254	
4,200.00	4,121.49	4,099.61	4,088.42	15.49	14.07	-112.32	4,665.84	-22.37	4,819.72	4,790.30	29.41	163.856	
4,300.00	4,218.61	4,206.60	4,193.29	15.88	14.46	-112.85	4,664.17	-43.48	4,830.43	4,800.24	30.19	160.020	
4,400.00	4,315.73	4,325.52	4,309.48	16.27	14.90	-113.44	4,661.47	-68.67	4,841.05	4,810.05	31.00	156.138	
4,500.00	4,412.85	4,380.49	4,363.00	16.66	15.10	-113.73	4,660.04	-81.11	4,852.01	4,820.43	31.58	153.634	
4,600.00	4,509.97	4,435.00	4,416.07	17.05	15.30	-114.01	4,659.19	-93.54	4,864.17	4,832.02	32.15	151.278	
4,700.00	4,607.09	4,487.16	4,466.83	17.45	15.49	-114.28	4,658.74	-105.56	4,877.37	4,844.66	32.71	149.087	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 17H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,704.21	4,530.00	4,508.48	17.84	15.65	-114.50	4,658.50	-115.57	4,891.48	4,858.25	33.23	147.180	
4,900.00	4,801.33	4,598.84	4,575.39	18.23	15.90	-114.85	4,658.57	-131.75	4,906.50	4,872.64	33.86	144.915	
5,000.00	4,898.45	4,659.60	4,634.48	18.62	16.13	-115.16	4,659.22	-145.88	4,922.59	4,888.14	34.45	142.908	
5,100.00	4,995.57	4,740.09	4,713.01	19.02	16.43	-115.56	4,660.62	-163.50	4,939.40	4,904.28	35.12	140.663	
5,200.00	5,092.69	14,315.95	9,663.02	19.41	50.89	171.16	-137.93	-855.41	4,857.05	4,804.73	52.32	92.833	
5,300.00	5,189.81	14,321.53	9,663.04	19.80	50.93	171.05	-143.52	-855.47	4,774.87	4,722.12	52.76	90.506	
5,400.00	5,286.93	14,327.10	9,663.05	20.20	50.96	170.93	-149.09	-855.53	4,693.38	4,640.17	53.21	88.207	
5,500.00	5,384.05	14,332.66	9,663.07	20.59	50.99	170.82	-154.65	-855.59	4,612.61	4,558.93	53.68	85.935	
5,600.00	5,481.17	14,338.20	9,663.09	20.98	51.02	170.70	-160.18	-855.66	4,532.60	4,478.44	54.16	83.691	
5,700.00	5,578.29	14,343.72	9,663.10	21.38	51.05	170.59	-165.71	-855.72	4,453.38	4,398.73	54.66	81.477	
5,800.00	5,675.41	14,349.23	9,663.12	21.77	51.08	170.47	-171.21	-855.79	4,375.02	4,319.84	55.18	79.292	
5,900.00	5,772.53	14,359.00	9,663.15	22.16	51.13	170.27	-180.98	-855.92	4,297.54	4,241.80	55.74	77.101	
6,000.00	5,869.65	14,360.49	9,663.15	22.56	51.14	170.24	-182.48	-855.94	4,221.00	4,164.73	56.27	75.015	
6,100.00	5,966.77	14,367.36	9,663.17	22.95	51.18	170.09	-189.34	-856.03	4,145.45	4,088.59	56.85	72.914	
6,200.00	6,063.89	14,374.29	9,663.20	23.35	51.22	169.95	-196.28	-856.11	4,070.94	4,013.48	57.46	70.848	
6,300.00	6,161.01	14,381.31	9,663.22	23.74	51.26	169.80	-203.29	-856.19	3,997.54	3,939.45	58.09	68.818	
6,400.00	6,258.13	14,388.39	9,663.25	24.14	51.30	169.66	-210.37	-856.27	3,925.30	3,866.56	58.74	66.825	
6,500.00	6,355.25	14,395.56	9,663.27	24.53	51.34	169.51	-217.54	-856.34	3,854.29	3,794.87	59.42	64.870	
6,600.00	6,452.37	14,402.80	9,663.30	24.92	51.38	169.36	-224.78	-856.41	3,784.57	3,724.46	60.12	62.954	
6,700.00	6,549.49	14,410.12	9,663.33	25.32	51.42	169.20	-232.10	-856.47	3,716.23	3,655.39	60.84	61.079	
6,800.00	6,646.61	14,417.52	9,663.37	25.71	51.46	169.05	-239.50	-856.53	3,649.33	3,587.74	61.60	59.247	
6,900.00	6,743.73	14,425.01	9,663.40	26.11	51.50	168.89	-246.99	-856.58	3,583.97	3,521.59	62.37	57.458	
7,000.00	6,840.85	14,432.57	9,663.44	26.50	51.55	168.74	-254.55	-856.63	3,520.21	3,457.03	63.18	55.716	
7,100.00	6,937.97	14,440.22	9,663.48	26.90	51.59	168.58	-262.20	-856.67	3,458.16	3,394.15	64.02	54.020	
7,200.00	7,035.09	14,447.96	9,663.52	27.29	51.63	168.41	-269.94	-856.71	3,397.91	3,333.03	64.88	52.373	
7,300.00	7,132.21	14,455.79	9,663.56	27.69	51.68	168.25	-277.77	-856.74	3,339.55	3,273.78	65.77	50.777	
7,400.00	7,229.33	14,463.52	9,663.60	28.08	51.72	168.09	-285.50	-856.77	3,283.18	3,216.49	66.69	49.233	
7,500.00	7,326.45	14,471.13	9,663.63	28.48	51.76	167.93	-293.11	-856.81	3,228.90	3,161.28	67.63	47.745	
7,600.00	7,423.57	14,478.62	9,663.66	28.87	51.81	167.77	-300.60	-856.84	3,176.84	3,108.24	68.60	46.312	
7,700.00	7,520.69	14,485.99	9,663.68	29.27	51.85	167.62	-307.97	-856.87	3,127.09	3,057.50	69.59	44.938	
7,700.27	7,520.96	14,486.01	9,663.68	29.27	51.85	167.62	-307.99	-856.87	3,126.96	3,057.37	69.59	44.935	
7,800.00	7,618.21	14,492.75	9,663.70	29.66	51.89	167.23	-314.73	-856.90	3,078.27	3,007.69	70.59	43.611	
7,900.00	7,716.43	14,498.43	9,663.72	30.04	51.92	166.86	-320.40	-856.93	3,028.95	2,957.37	71.58	42.318	
8,000.00	7,815.25	14,503.03	9,663.73	30.41	51.94	166.49	-325.01	-856.95	2,979.15	2,906.60	72.56	41.059	
8,100.00	7,914.55	14,506.58	9,663.73	30.78	51.96	166.14	-328.56	-856.96	2,928.93	2,855.40	73.53	39.836	
8,200.00	8,014.19	14,509.11	9,663.74	31.13	51.98	165.80	-331.09	-856.97	2,878.32	2,803.85	74.48	38.646	
8,300.00	8,114.07	14,510.62	9,663.74	31.47	51.99	165.47	-332.60	-856.98	2,827.38	2,751.96	75.42	37.490	
8,389.47	8,203.52	14,511.14	9,663.74	31.77	51.99	-89.69	-333.12	-856.98	2,781.56	2,705.32	76.23	36.487	
8,400.00	8,214.05	14,511.26	9,663.74	31.80	51.99	91.19	-333.24	-856.98	2,776.16	2,699.83	76.33	36.371	
8,450.00	8,263.94	14,514.66	9,663.74	31.95	52.01	94.01	-336.64	-857.00	2,751.05	2,674.25	76.80	35.821	
8,500.00	8,313.37	14,522.67	9,663.75	32.11	52.06	96.57	-344.65	-857.04	2,726.88	2,649.58	77.30	35.277	
8,550.00	8,361.96	14,535.18	9,663.75	32.27	52.13	98.86	-357.16	-857.10	2,703.82	2,626.00	77.82	34.743	
8,600.00	8,409.35	14,551.58	9,663.74	32.42	52.22	100.88	-373.56	-857.18	2,682.02	2,603.66	78.37	34.224	
8,650.00	8,455.17	14,571.35	9,663.72	32.57	52.33	102.65	-393.33	-857.28	2,661.62	2,582.69	78.92	33.724	
8,700.00	8,499.07	14,595.05	9,663.72	32.71	52.47	104.17	-417.03	-857.39	2,642.70	2,563.21	79.49	33.245	
8,750.00	8,540.73	14,622.52	9,663.74	32.85	52.62	105.44	-444.49	-857.51	2,625.35	2,545.28	80.07	32.789	
8,800.00	8,579.82	14,651.50	9,663.78	32.99	52.79	106.53	-473.48	-857.64	2,609.62	2,528.98	80.64	32.362	
8,850.00	8,616.04	14,680.96	9,663.80	33.11	52.96	107.46	-502.93	-857.83	2,595.58	2,514.38	81.20	31.966	
8,900.00	8,649.13	14,712.94	9,663.79	33.24	53.14	108.21	-534.92	-858.12	2,583.28	2,501.52	81.75	31.598	
8,950.00	8,678.82	14,756.37	9,663.72	33.36	53.39	108.68	-578.34	-858.60	2,572.68	2,490.34	82.34	31.245	
9,000.00	8,704.90	14,814.27	9,663.38	33.47	53.73	108.90	-636.24	-859.05	2,563.53	2,480.56	82.97	30.897	
9,050.00	8,727.16	14,856.89	9,662.95	33.58	53.98	109.21	-678.86	-859.30	2,555.84	2,472.33	83.51	30.605	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 17H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,745.44	14,896.22	9,662.50	33.70	54.21	109.47	-718.18	-859.66	2,549.84	2,465.83	84.01	30.352	
9,139.47	8,756.95	14,932.79	9,662.02	33.78	54.42	109.56	-754.75	-860.09	2,546.28	2,461.86	84.41	30.165	
9,200.00	8,771.07	15,011.24	9,661.05	33.92	54.88	109.36	-833.19	-860.65	2,541.86	2,456.76	85.11	29.867	
9,300.00	8,787.52	15,103.65	9,660.16	34.14	55.43	109.25	-925.60	-860.94	2,536.74	2,450.69	86.04	29.482	
9,395.00	8,795.14	15,179.30	9,659.75	34.36	55.88	109.18	-1,001.24	-861.45	2,535.06	2,448.24	86.82	29.198	
9,400.00	8,795.32	15,183.26	9,659.73	34.37	55.90	109.18	-1,005.20	-861.50	2,535.07	2,448.20	86.86	29.184	
9,439.47	8,796.00	15,218.64	9,659.66	34.46	56.12	109.15	-1,040.58	-861.91	2,535.41	2,448.22	87.19	29.079	
9,500.00	8,796.00	15,282.32	9,659.53	34.60	56.50	109.14	-1,104.25	-862.62	2,536.27	2,448.54	87.73	28.909	
9,600.00	8,796.00	15,412.84	9,658.92	34.85	57.28	109.12	-1,234.77	-863.00	2,536.74	2,447.97	88.77	28.575	
9,700.00	8,796.00	15,488.50	9,659.22	35.10	57.74	109.12	-1,310.43	-863.11	2,537.41	2,447.84	89.56	28.331	
9,800.00	8,796.00	15,624.91	9,658.61	35.37	58.58	109.10	-1,446.83	-863.65	2,538.15	2,447.47	90.68	27.991	
9,900.00	8,796.00	15,742.77	9,657.37	35.65	59.31	109.08	-1,564.68	-862.28	2,537.06	2,445.35	91.72	27.662	
10,000.00	8,796.00	15,845.58	9,656.12	35.94	59.94	109.06	-1,667.47	-861.13	2,536.03	2,443.33	92.70	27.358	
10,100.00	8,796.00	15,939.34	9,654.91	36.24	60.53	109.03	-1,761.21	-860.10	2,534.98	2,441.33	93.65	27.068	
10,200.00	8,796.00	16,039.86	9,653.42	36.55	61.16	109.01	-1,861.73	-859.23	2,534.10	2,439.44	94.66	26.771	
10,300.00	8,796.00	16,134.59	9,652.25	36.88	61.76	108.98	-1,956.44	-858.40	2,533.28	2,437.63	95.65	26.486	
10,400.00	8,796.00	16,242.82	9,650.74	37.22	62.44	108.95	-2,064.66	-857.47	2,532.44	2,435.71	96.72	26.182	
10,500.00	8,796.00	16,350.77	9,649.09	37.57	63.13	108.93	-2,172.58	-856.04	2,531.09	2,433.28	97.81	25.876	
10,600.00	8,796.00	16,437.80	9,647.16	37.93	63.69	108.89	-2,259.60	-855.42	2,530.10	2,431.30	98.81	25.606	
10,700.00	8,796.00	16,558.76	9,644.22	38.29	64.46	108.83	-2,380.51	-854.24	2,528.81	2,428.80	100.00	25.287	
10,800.00	8,796.00	16,658.93	9,642.25	38.68	65.11	108.79	-2,480.65	-852.58	2,527.02	2,425.92	101.10	24.996	
10,900.00	8,796.00	16,744.73	9,641.44	39.07	65.66	108.79	-2,566.43	-851.19	2,525.60	2,423.49	102.11	24.733	
11,000.00	8,796.00	16,841.51	9,640.89	39.47	66.29	108.78	-2,663.20	-850.07	2,524.74	2,421.53	103.20	24.464	
11,100.00	8,796.00	16,937.40	9,639.54	39.88	66.92	108.75	-2,759.08	-848.98	2,523.63	2,419.33	104.30	24.196	
11,200.00	8,796.00	17,026.68	9,638.72	40.30	67.50	108.74	-2,848.35	-848.43	2,523.16	2,417.79	105.37	23.946	
11,300.00	8,796.00	17,144.04	9,636.30	40.73	68.27	108.69	-2,965.68	-847.94	2,522.54	2,415.92	106.62	23.659	
11,400.00	8,796.00	17,246.75	9,633.02	41.16	68.95	108.62	-3,068.34	-847.25	2,521.29	2,413.49	107.80	23.388	
11,500.00	8,796.00	17,329.34	9,632.51	41.61	69.50	108.61	-3,150.92	-846.27	2,520.39	2,411.54	108.86	23.153	
11,600.00	8,796.00	17,437.40	9,632.11	42.07	70.21	108.60	-3,258.98	-845.42	2,519.97	2,409.89	110.08	22.892	
11,700.00	8,796.00	17,526.60	9,631.52	42.53	70.80	108.59	-3,348.16	-844.55	2,519.27	2,408.07	111.19	22.656	
11,800.00	8,796.00	17,618.56	9,631.80	43.00	71.41	108.60	-3,440.12	-843.88	2,519.09	2,406.76	112.33	22.425	
11,900.00	8,796.00	17,735.74	9,631.36	43.48	72.20	108.59	-3,557.30	-843.13	2,518.80	2,405.15	113.64	22.164	
12,000.00	8,796.00	17,859.51	9,629.86	43.97	73.03	108.57	-3,681.05	-841.47	2,517.55	2,402.55	115.01	21.891	
12,100.00	8,796.00	17,961.24	9,628.76	44.46	73.71	108.56	-3,782.75	-839.34	2,515.64	2,399.40	116.24	21.642	
12,200.00	8,796.00	18,053.60	9,627.74	44.97	74.33	108.54	-3,875.09	-837.89	2,514.20	2,396.78	117.42	21.412	
12,300.00	8,796.00	18,168.99	9,626.42	45.47	75.11	108.53	-3,990.45	-835.59	2,512.35	2,393.60	118.75	21.156	
12,400.00	8,796.00	18,272.07	9,625.08	45.99	75.81	108.51	-4,093.49	-833.23	2,510.19	2,390.17	120.02	20.915	
12,500.00	8,796.00	18,369.57	9,623.85	46.51	76.48	108.50	-4,190.96	-830.99	2,508.03	2,386.77	121.25	20.684	
12,600.00	8,796.00	18,461.49	9,622.72	47.04	77.10	108.49	-4,282.86	-829.06	2,506.07	2,383.61	122.46	20.464	
12,700.00	8,796.00	18,543.20	9,621.97	47.58	77.66	108.48	-4,364.55	-827.68	2,504.61	2,381.00	123.61	20.262	
12,800.00	8,796.00	18,650.03	9,622.33	48.12	78.39	108.49	-4,471.36	-826.14	2,503.78	2,378.86	124.92	20.043	
12,900.00	8,796.00	18,792.06	9,621.35	48.66	79.37	108.49	-4,613.34	-822.56	2,501.58	2,375.11	126.47	19.780	
13,000.00	8,796.00	18,889.02	9,619.21	49.22	80.04	108.46	-4,710.24	-819.94	2,498.73	2,370.99	127.74	19.561	
13,100.00	8,796.00	18,990.04	9,618.05	49.77	80.73	108.46	-4,811.20	-816.78	2,495.82	2,366.78	129.04	19.341	
13,200.00	8,796.00	19,061.00	9,616.74	50.34	81.22	108.44	-4,882.12	-814.75	2,493.10	2,362.94	130.15	19.155	
13,209.11	8,796.00	19,081.77	9,616.27	50.39	81.37	108.43	-4,902.88	-814.26	2,492.80	2,362.46	130.35	19.124	
13,222.06	8,796.00	19,089.25	9,616.12	50.46	81.42	108.43	-4,910.36	-814.11	2,492.66	2,362.18	130.48	19.104	CC, ES
13,250.00	8,796.00	19,105.39	9,615.88	50.62	81.53	108.44	-4,926.50	-813.82	2,493.33	2,362.56	130.77	19.067	
13,300.00	8,796.00	19,134.13	9,615.62	50.92	81.73	108.55	-4,955.23	-813.44	2,497.87	2,366.59	131.28	19.027	
13,350.00	8,796.00	19,165.54	9,615.57	51.22	81.95	108.77	-4,986.64	-813.23	2,506.65	2,374.84	131.81	19.018	SF
13,400.00	8,796.00	19,204.55	9,615.23	51.52	82.22	109.08	-5,025.64	-813.25	2,519.44	2,387.05	132.39	19.031	
13,450.00	8,796.00	19,249.00	9,614.25	51.83	82.52	109.48	-5,070.08	-813.66	2,536.10	2,403.10	133.01	19.068	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 17H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,500.00	8,796.00	19,296.65	9,612.89	52.14	82.85	109.97	-5,117.71	-814.18	2,556.37	2,422.72	133.65	19.128	
13,550.00	8,796.00	19,352.94	9,611.40	52.45	83.25	110.55	-5,173.98	-814.49	2,579.89	2,445.54	134.35	19.203	
13,600.00	8,796.00	19,398.59	9,610.53	52.75	83.56	111.35	-5,219.62	-814.48	2,606.61	2,471.64	134.96	19.313	
13,650.00	8,796.00	19,430.00	9,610.03	53.04	83.78	112.43	-5,251.03	-814.41	2,636.46	2,501.00	135.46	19.463	
13,700.00	8,796.00	19,430.00	9,610.03	53.33	83.78	114.07	-5,251.03	-814.41	2,669.63	2,533.94	135.69	19.675	
13,750.00	8,796.00	19,430.00	9,610.03	53.61	83.78	116.17	-5,251.03	-814.41	2,705.95	2,570.07	135.88	19.914	
13,800.00	8,796.00	19,430.00	9,610.03	53.87	83.78	118.89	-5,251.03	-814.41	2,745.07	2,609.01	136.05	20.177	
13,850.00	8,796.00	19,430.00	9,610.03	54.12	83.78	122.46	-5,251.03	-814.41	2,786.60	2,650.41	136.19	20.461	
13,900.00	8,796.00	19,430.00	9,610.03	54.35	83.78	127.21	-5,251.03	-814.41	2,830.19	2,693.87	136.31	20.762	
13,950.00	8,796.00	19,430.00	9,610.03	54.56	83.78	133.67	-5,251.03	-814.41	2,875.44	2,739.02	136.41	21.079	
14,000.00	8,796.00	19,430.00	9,610.03	54.76	83.78	142.56	-5,251.03	-814.41	2,921.99	2,785.49	136.50	21.407	
14,050.00	8,796.00	19,430.00	9,610.03	54.93	83.78	154.65	-5,251.03	-814.41	2,969.47	2,832.90	136.57	21.743	
14,100.00	8,796.00	19,430.00	9,610.03	55.08	83.78	170.16	-5,251.03	-814.41	3,017.53	2,880.90	136.63	22.085	
14,150.00	8,796.00	19,430.00	9,610.03	55.20	83.78	-172.41	-5,251.03	-814.41	3,065.84	2,929.16	136.68	22.431	
14,200.00	8,796.00	19,430.00	9,610.03	55.31	83.78	-156.05	-5,251.03	-814.41	3,114.06	2,977.34	136.72	22.777	
14,250.00	8,796.00	19,430.00	9,610.03	55.39	83.78	-142.86	-5,251.03	-814.41	3,161.89	3,025.14	136.75	23.121	
14,300.00	8,796.00	19,430.00	9,610.03	55.45	83.78	-133.04	-5,251.03	-814.41	3,209.03	3,072.25	136.78	23.461	
14,350.00	8,796.00	19,430.00	9,610.03	55.48	83.78	-125.88	-5,251.03	-814.41	3,255.21	3,118.41	136.80	23.796	
14,400.00	8,796.00	19,430.00	9,610.03	55.49	83.78	-120.61	-5,251.03	-814.41	3,300.17	3,163.36	136.81	24.122	
14,450.00	8,796.00	19,430.00	9,610.03	55.48	83.78	-116.66	-5,251.03	-814.41	3,343.65	3,206.84	136.81	24.440	
14,500.00	8,796.00	19,430.00	9,610.03	55.45	83.78	-113.64	-5,251.03	-814.41	3,385.44	3,248.63	136.81	24.746	
14,550.00	8,796.00	19,430.00	9,610.03	55.40	83.78	-111.27	-5,251.03	-814.41	3,425.33	3,288.53	136.80	25.039	
14,600.00	8,796.00	19,430.00	9,610.03	55.33	83.78	-109.40	-5,251.03	-814.41	3,463.11	3,326.33	136.78	25.319	
14,650.00	8,796.00	19,430.00	9,610.03	55.25	83.78	-107.89	-5,251.03	-814.41	3,498.61	3,361.87	136.75	25.585	
14,700.00	8,796.00	19,430.00	9,610.03	55.15	83.78	-106.66	-5,251.03	-814.41	3,531.67	3,394.96	136.71	25.834	
14,750.00	8,796.00	19,391.14	9,610.65	55.04	83.51	-105.56	-5,212.17	-814.49	3,561.92	3,425.59	136.33	26.128	
14,800.00	8,796.00	19,333.28	9,611.91	54.92	83.11	-104.64	-5,154.33	-814.42	3,588.87	3,453.09	135.78	26.431	
14,850.00	8,796.00	19,265.91	9,613.76	54.79	82.64	-103.92	-5,086.99	-813.87	3,612.18	3,477.03	135.16	26.726	
14,900.00	8,796.00	19,225.27	9,614.85	54.65	82.36	-103.41	-5,046.36	-813.39	3,631.77	3,496.99	134.78	26.947	
14,950.00	8,796.00	19,193.15	9,615.38	54.51	82.14	-103.01	-5,014.25	-813.22	3,647.82	3,513.35	134.47	27.127	
15,000.00	8,796.00	19,155.00	9,615.58	54.37	81.87	-102.71	-4,976.10	-813.28	3,660.28	3,526.16	134.12	27.291	
15,050.00	8,796.00	19,155.00	9,615.58	54.22	81.87	-102.53	-4,976.10	-813.28	3,669.20	3,535.11	134.10	27.363	
15,099.11	8,796.00	19,109.73	9,615.82	54.08	81.56	-102.41	-4,930.83	-813.75	3,674.23	3,540.54	133.69	27.482	
15,100.00	8,796.00	19,109.29	9,615.83	54.08	81.56	-102.41	-4,930.39	-813.76	3,674.29	3,540.60	133.69	27.484	
15,200.00	8,796.00	19,061.00	9,616.74	53.80	81.22	-102.39	-4,882.12	-814.75	3,680.15	3,546.92	133.24	27.621	
15,263.03	8,796.00	19,002.16	9,617.90	53.63	80.82	-102.39	-4,823.32	-816.40	3,682.56	3,549.83	132.73	27.745	
15,300.00	8,796.00	18,970.45	9,618.22	53.53	80.60	-102.39	-4,791.62	-817.41	3,683.64	3,551.18	132.45	27.811	
15,400.00	8,796.00	18,859.90	9,619.83	53.27	79.84	-102.40	-4,681.13	-820.74	3,686.47	3,554.94	131.53	28.027	
15,500.00	8,796.00	18,750.53	9,622.25	53.02	79.08	-102.43	-4,571.83	-823.65	3,689.14	3,558.51	130.63	28.241	
15,600.00	8,796.00	18,591.00	9,622.01	52.78	77.99	-102.42	-4,412.34	-827.07	3,690.78	3,561.43	129.34	28.535	
15,700.00	8,796.00	18,510.63	9,622.16	52.54	77.44	-102.42	-4,331.99	-828.19	3,691.78	3,563.08	128.70	28.686	
15,800.00	8,796.00	18,428.23	9,623.13	52.31	76.88	-102.43	-4,249.61	-829.72	3,693.42	3,565.38	128.05	28.845	
15,900.00	8,796.00	18,336.97	9,624.25	52.09	76.26	-102.44	-4,158.37	-831.73	3,695.41	3,568.08	127.33	29.021	
16,000.00	8,796.00	18,238.09	9,625.52	51.88	75.58	-102.46	-4,059.53	-834.02	3,697.53	3,570.95	126.58	29.211	
16,100.00	8,796.00	18,130.64	9,626.88	51.68	74.85	-102.47	-3,952.11	-836.42	3,699.57	3,573.80	125.77	29.415	
16,200.00	8,796.00	18,006.36	9,628.27	51.49	74.02	-102.49	-3,827.86	-838.57	3,701.06	3,576.21	124.85	29.644	
16,300.00	8,796.00	17,940.47	9,628.98	51.30	73.57	-102.49	-3,761.98	-839.75	3,702.67	3,578.30	124.38	29.770	
16,400.00	8,796.00	17,804.92	9,630.51	51.13	72.66	-102.51	-3,626.46	-842.36	3,704.39	3,580.98	123.40	30.018	
16,500.00	8,796.00	17,667.46	9,631.84	50.96	71.74	-102.53	-3,489.02	-843.61	3,705.06	3,582.63	122.43	30.263	
16,600.00	8,796.00	17,568.20	9,631.65	50.80	71.08	-102.52	-3,389.76	-844.22	3,705.19	3,583.44	121.75	30.432	
16,700.00	8,796.00	17,485.11	9,631.65	50.65	70.53	-102.52	-3,306.68	-844.93	3,705.62	3,584.41	121.21	30.573	
16,800.00	8,796.00	17,368.53	9,632.47	50.51	69.75	-102.53	-3,190.10	-845.98	3,706.25	3,585.82	120.43	30.775	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 17H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,900.00	8,796.00	17,292.06	9,632.64	50.38	69.25	-102.53	-3,113.63	-846.66	3,706.76	3,586.80	119.96	30.901	
17,000.00	8,796.00	17,195.30	9,634.30	50.26	68.61	-102.56	-3,016.90	-847.71	3,707.77	3,588.42	119.35	31.066	
17,100.00	8,796.00	17,072.34	9,638.09	50.15	67.80	-102.61	-2,894.00	-848.23	3,708.44	3,589.86	118.58	31.273	
17,200.00	8,796.00	16,985.00	9,639.10	50.05	67.23	-102.63	-2,806.67	-848.64	3,708.76	3,590.69	118.07	31.411	
17,300.00	8,796.00	16,891.00	9,640.22	49.97	66.61	-102.65	-2,712.68	-849.48	3,709.47	3,591.95	117.53	31.563	
17,400.00	8,796.00	16,797.00	9,641.19	49.89	66.00	-102.66	-2,618.70	-850.55	3,710.39	3,593.40	116.99	31.715	
17,500.00	8,796.00	16,703.00	9,641.75	49.82	65.39	-102.66	-2,524.71	-851.83	3,711.43	3,594.97	116.47	31.867	
17,600.00	8,796.00	16,622.73	9,642.85	49.76	64.88	-102.68	-2,444.45	-853.21	3,712.97	3,596.92	116.05	31.995	
17,700.00	8,796.00	16,501.07	9,645.57	49.72	64.09	-102.71	-2,322.84	-854.96	3,714.46	3,599.08	115.38	32.194	
17,800.00	8,796.00	16,389.06	9,648.36	49.68	63.37	-102.75	-2,210.87	-855.64	3,715.16	3,600.37	114.79	32.366	
17,900.00	8,796.00	16,310.10	9,649.66	49.66	62.87	-102.77	-2,131.92	-856.66	3,716.33	3,601.91	114.42	32.481	
18,000.00	8,796.00	16,186.37	9,651.69	49.65	62.08	-102.80	-2,008.22	-857.94	3,717.27	3,603.49	113.78	32.671	
18,100.00	8,796.00	16,086.30	9,652.76	49.65	61.45	-102.81	-1,908.16	-858.82	3,717.94	3,604.64	113.30	32.815	
18,200.00	8,796.00	15,987.50	9,654.22	49.66	60.83	-102.83	-1,809.37	-859.68	3,718.70	3,605.85	112.85	32.954	
18,300.00	8,796.00	15,894.68	9,655.51	49.69	60.25	-102.85	-1,716.56	-860.55	3,719.50	3,607.06	112.44	33.080	
18,400.00	8,796.00	15,794.16	9,656.75	49.73	59.62	-102.87	-1,616.06	-861.73	3,720.51	3,608.51	112.00	33.219	
18,500.00	8,796.00	15,700.81	9,657.84	49.78	59.05	-102.88	-1,522.72	-862.80	3,721.46	3,609.85	111.62	33.342	
18,600.00	8,796.00	15,524.29	9,659.40	49.84	57.96	-102.91	-1,346.22	-863.28	3,721.48	3,610.72	110.76	33.600	
18,700.00	8,796.00	15,440.38	9,658.90	49.92	57.45	-102.90	-1,262.31	-862.99	3,720.62	3,610.16	110.46	33.684	
18,800.00	8,796.00	15,327.47	9,659.41	50.01	56.77	-102.91	-1,149.40	-863.01	3,720.37	3,610.37	110.00	33.821	
18,900.00	8,796.00	15,202.00	9,659.69	50.12	56.02	-102.92	-1,023.94	-861.71	3,718.94	3,609.45	109.49	33.965	
19,000.00	8,796.00	15,128.57	9,659.99	50.24	55.58	-102.93	-950.51	-861.05	3,717.75	3,608.45	109.30	34.014	
19,100.00	8,796.00	15,042.28	9,660.71	50.37	55.07	-102.94	-864.22	-860.73	3,717.15	3,608.10	109.04	34.089	
19,200.00	8,796.00	14,920.00	9,662.19	50.51	54.35	-102.97	-741.96	-859.94	3,716.36	3,607.76	108.60	34.220	
19,300.00	8,796.00	14,839.43	9,663.13	50.67	53.87	-102.99	-661.40	-859.17	3,715.33	3,606.93	108.40	34.273	
19,400.00	8,796.00	14,708.43	9,663.79	50.85	53.12	-103.00	-530.41	-858.07	3,714.16	3,606.21	107.95	34.407	
19,500.00	8,796.00	14,627.52	9,663.75	51.03	52.65	-103.01	-449.50	-857.53	3,713.07	3,605.30	107.77	34.454	
19,600.00	8,796.00	14,526.22	9,663.75	51.23	52.08	-103.01	-348.20	-857.06	3,712.19	3,604.70	107.49	34.534	
19,634.41	8,796.00	14,491.20	9,663.70	51.30	51.88	-103.01	-313.18	-856.89	3,711.88	3,604.48	107.40	34.561	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 7H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	29.14	29.14	0.00	0.05	1.48	4,644.58	120.38	4,646.14				
100.00	100.00	119.09	119.09	0.28	0.19	1.48	4,644.74	120.36	4,646.32	4,645.85	0.47	9,988.722	
200.00	200.00	209.07	209.07	0.63	0.35	1.48	4,645.10	120.32	4,646.71	4,645.73	0.98	4,729.194	
300.00	300.00	300.00	300.00	0.99	0.67	1.48	4,645.65	120.14	4,647.32	4,645.65	1.67	2,788.197	
400.00	400.00	389.00	388.99	1.35	0.99	1.48	4,646.43	119.73	4,648.18	4,645.83	2.34	1,983.044	
500.00	500.00	461.13	461.11	1.71	1.25	1.47	4,647.36	119.19	4,649.44	4,646.48	2.96	1,570.281	
600.00	599.98	630.36	630.34	2.07	1.85	1.47	4,648.69	118.90	4,648.47	4,644.56	3.92	1,187.195	
700.00	699.84	760.27	760.24	2.43	2.29	1.48	4,648.57	119.49	4,643.22	4,638.50	4.72	984.085	
750.00	749.68	855.90	855.85	2.61	2.61	1.47	4,647.42	118.60	4,638.63	4,633.40	5.23	887.656	
800.00	799.49	896.32	896.27	2.79	2.75	1.47	4,646.84	117.98	4,633.53	4,627.98	5.54	835.713	
900.00	899.11	993.04	992.96	3.15	3.08	1.45	4,645.65	116.17	4,623.54	4,617.30	6.24	741.341	
1,000.00	998.73	1,087.19	1,087.08	3.51	3.41	1.42	4,644.45	113.97	4,613.51	4,606.58	6.92	666.305	
1,001.27	1,000.00	1,088.30	1,088.19	3.51	3.42	1.42	4,644.44	113.95	4,613.38	4,606.45	6.93	665.476	
1,100.00	1,098.41	1,173.46	1,173.33	3.87	3.72	-21.62	4,643.56	112.55	4,604.60	4,597.02	7.58	607.136	
1,200.00	1,198.13	1,273.58	1,273.44	4.22	4.07	-48.35	4,642.74	111.38	4,597.73	4,589.44	8.29	554.544	
1,300.00	1,297.78	1,380.17	1,380.02	4.58	4.45	-69.50	4,641.66	110.06	4,592.50	4,583.48	9.02	509.245	
1,400.00	1,397.23	1,466.66	1,466.50	4.93	4.75	-83.16	4,640.82	109.30	4,589.16	4,579.49	9.67	474.500	
1,500.00	1,496.35	1,552.63	1,552.47	5.28	5.05	-91.82	4,640.27	109.45	4,588.05	4,577.73	10.32	444.604	
1,502.53	1,498.85	1,554.88	1,554.72	5.28	5.06	-91.99	4,640.26	109.47	4,588.05	4,577.71	10.34	443.890	
1,600.00	1,595.04	1,656.28	1,656.12	5.63	5.40	-97.62	4,639.74	110.38	4,588.97	4,577.94	11.03	416.187	
1,700.00	1,693.16	1,806.98	1,806.79	5.98	5.93	-101.83	4,638.03	112.37	4,591.24	4,579.34	11.90	385.920	
1,792.67	1,783.48	1,945.38	1,945.14	6.31	6.41	-104.82	4,634.74	113.63	4,593.87	4,581.16	12.71	361.559	
1,800.00	1,790.60	1,954.73	1,954.49	6.34	6.44	-104.84	4,634.47	113.75	4,594.11	4,581.35	12.76	359.912	
1,900.00	1,887.72	2,035.30	2,035.02	6.70	6.73	-105.06	4,632.25	115.11	4,597.62	4,584.21	13.41	342.937	
2,000.00	1,984.84	2,065.00	2,064.70	7.06	6.83	-105.14	4,631.54	115.79	4,601.99	4,588.12	13.88	331.622	
2,100.00	2,081.96	2,128.20	2,127.89	7.43	7.05	-105.31	4,630.72	116.65	4,607.34	4,592.87	14.46	318.553	
2,200.00	2,179.08	2,179.73	2,179.42	7.80	7.23	-105.46	4,630.92	116.42	4,614.14	4,599.13	15.01	307.405	
2,300.00	2,276.20	2,289.94	2,289.63	8.17	7.61	-105.77	4,631.64	116.15	4,621.40	4,605.64	15.76	293.224	
2,400.00	2,373.32	2,455.94	2,455.61	8.55	8.19	-106.22	4,631.17	118.10	4,627.85	4,611.14	16.71	276.989	
2,500.00	2,470.44	2,533.48	2,533.15	8.93	8.46	-106.44	4,630.50	117.92	4,633.85	4,616.50	17.35	267.017	
2,600.00	2,567.56	2,613.33	2,612.99	9.30	8.74	-106.68	4,630.13	117.00	4,640.38	4,622.37	18.01	257.666	
2,700.00	2,664.68	2,709.35	2,708.95	9.68	9.08	-106.99	4,629.79	113.85	4,647.23	4,628.51	18.72	248.229	
2,800.00	2,761.80	2,800.36	2,799.76	10.07	9.40	-107.32	4,629.34	107.91	4,654.23	4,634.81	19.42	239.695	
2,900.00	2,858.92	2,877.19	2,876.28	10.45	9.67	-107.62	4,629.03	100.92	4,661.64	4,641.57	20.06	232.341	
3,000.00	2,956.04	2,949.04	2,947.65	10.83	9.92	-107.91	4,629.00	92.68	4,669.72	4,649.03	20.69	225.671	
3,100.00	3,053.16	3,020.00	3,017.94	11.22	10.17	-108.23	4,629.18	82.96	4,678.47	4,657.15	21.32	219.460	
3,200.00	3,150.29	3,101.44	3,098.31	11.60	10.46	-108.61	4,629.54	69.88	4,687.82	4,665.84	21.98	213.263	
3,300.00	3,247.41	3,180.87	3,176.35	11.99	10.74	-109.00	4,629.96	55.09	4,697.75	4,675.11	22.64	207.517	
3,400.00	3,344.53	3,264.74	3,258.37	12.38	11.03	-109.43	4,630.41	37.57	4,708.23	4,684.92	23.31	201.973	
3,500.00	3,441.65	3,363.50	3,354.66	12.76	11.38	-109.96	4,630.81	15.62	4,719.10	4,695.05	24.04	196.293	
3,600.00	3,538.77	3,484.43	3,472.50	13.15	11.81	-110.60	4,630.73	-11.54	4,729.96	4,705.11	24.86	190.292	
3,700.00	3,635.89	3,613.35	3,598.53	13.54	12.28	-111.26	4,629.70	-38.65	4,740.36	4,714.65	25.71	184.412	
3,800.00	3,733.01	3,695.35	3,678.51	13.93	12.57	-111.69	4,628.80	-56.69	4,751.01	4,724.63	26.38	180.097	
3,900.00	3,830.13	3,808.73	3,788.69	14.32	12.99	-112.30	4,627.15	-83.40	4,761.95	4,734.78	27.18	175.226	
4,000.00	3,927.25	3,898.05	3,875.18	14.71	13.32	-112.79	4,625.17	-105.61	4,772.80	4,744.91	27.88	171.176	
4,100.00	4,024.37	3,964.00	3,939.06	15.10	13.56	-113.15	4,624.24	-121.99	4,784.69	4,756.19	28.50	167.888	
4,200.00	4,121.49	3,997.06	3,971.11	15.49	13.68	-113.33	4,624.06	-130.09	4,797.63	4,768.64	28.99	165.518	
4,300.00	4,218.61	4,058.00	4,030.26	15.88	13.91	-113.66	4,624.24	-144.75	4,811.75	4,782.18	29.58	162.678	
4,400.00	4,315.73	4,121.32	4,091.80	16.27	14.14	-113.99	4,624.85	-159.65	4,826.78	4,796.60	30.18	159.936	
4,500.00	4,412.85	4,217.49	4,185.42	16.66	14.49	-114.49	4,625.96	-181.61	4,842.28	4,811.36	30.91	156.638	
4,600.00	4,509.97	4,320.40	4,285.73	17.05	14.88	-115.01	4,626.95	-204.60	4,857.89	4,826.22	31.68	153.357	
4,700.00	4,607.09	4,414.06	4,376.91	17.45	15.23	-115.49	4,627.57	-226.01	4,873.70	4,841.30	32.40	150.407	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 7H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS **Offset Well Error:** 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,704.21	4,519.35	4,479.30	17.84	15.62	-116.03	4,627.99	-250.53	4,889.74	4,856.56	33.18	147.373	
4,900.00	4,801.33	4,577.73	4,536.05	18.23	15.84	-116.32	4,628.23	-264.22	4,906.20	4,872.44	33.76	145.327	
5,000.00	4,898.45	4,634.30	4,591.10	18.62	16.05	-116.61	4,628.97	-277.18	4,923.67	4,889.34	34.33	143.423	
5,100.00	4,995.57	4,719.99	4,674.60	19.02	16.37	-117.03	4,630.49	-296.41	4,941.80	4,906.77	35.02	141.102	
5,200.00	5,092.69	4,870.49	4,821.57	19.41	16.93	-117.75	4,632.55	-328.74	4,959.65	4,923.66	35.99	137.790	
5,300.00	5,189.81	4,990.47	4,939.11	19.80	17.38	-118.31	4,633.56	-352.77	4,977.06	4,940.22	36.83	135.120	
5,400.00	5,286.93	5,069.15	5,016.28	20.20	17.68	-118.66	4,634.17	-368.12	4,994.60	4,957.10	37.50	133.193	
5,500.00	5,384.05	5,156.03	5,101.48	20.59	18.00	-119.06	4,635.07	-385.08	5,012.64	4,974.45	38.20	131.228	
5,600.00	5,481.17	14,644.00	9,860.80	20.98	52.75	169.56	-165.92	-1,517.31	5,007.24	4,952.18	55.05	90.953	
5,700.00	5,578.29	14,644.00	9,860.80	21.38	52.75	169.56	-165.92	-1,517.31	4,934.84	4,879.31	55.53	88.865	
5,800.00	5,675.41	14,644.00	9,860.80	21.77	52.75	169.56	-165.92	-1,517.31	4,863.42	4,807.39	56.03	86.802	
5,900.00	5,772.53	14,644.00	9,860.80	22.16	52.75	169.56	-165.92	-1,517.31	4,793.03	4,736.48	56.54	84.766	
6,000.00	5,869.65	14,644.00	9,860.80	22.56	52.75	169.56	-165.92	-1,517.31	4,723.70	4,666.62	57.08	82.758	
6,100.00	5,966.77	14,652.71	9,860.80	22.95	52.79	169.41	-174.63	-1,517.49	4,655.48	4,597.80	57.68	80.709	
6,200.00	6,063.89	14,661.92	9,860.79	23.35	52.84	169.26	-183.84	-1,517.67	4,588.42	4,530.11	58.31	78.692	
6,300.00	6,161.01	14,671.21	9,860.78	23.74	52.89	169.11	-193.12	-1,517.84	4,522.56	4,463.61	58.95	76.713	
6,400.00	6,258.13	14,680.58	9,860.78	24.14	52.95	168.95	-202.49	-1,518.00	4,457.97	4,398.34	59.62	74.771	
6,500.00	6,355.25	14,690.02	9,860.77	24.53	53.00	168.79	-211.93	-1,518.15	4,394.68	4,334.37	60.31	72.869	
6,600.00	6,452.37	14,699.55	9,860.76	24.92	53.05	168.63	-221.46	-1,518.29	4,332.77	4,271.75	61.02	71.007	
6,700.00	6,549.49	14,709.16	9,860.75	25.32	53.10	168.47	-231.07	-1,518.41	4,272.28	4,210.53	61.75	69.186	
6,800.00	6,646.61	14,718.86	9,860.75	25.71	53.15	168.31	-240.77	-1,518.53	4,213.29	4,150.79	62.51	67.407	
6,900.00	6,743.73	14,728.64	9,860.74	26.11	53.21	168.15	-250.55	-1,518.63	4,155.86	4,092.57	63.28	65.672	
7,000.00	6,840.85	14,738.65	9,860.73	26.50	53.26	167.98	-260.56	-1,518.72	4,100.04	4,035.96	64.08	63.981	
7,100.00	6,937.97	14,751.45	9,860.71	26.90	53.33	167.77	-273.36	-1,518.82	4,045.91	3,980.99	64.92	62.323	
7,200.00	7,035.09	14,764.36	9,860.69	27.29	53.40	167.55	-286.27	-1,518.88	3,993.53	3,927.76	65.78	60.713	
7,300.00	7,132.21	14,777.37	9,860.67	27.69	53.47	167.34	-299.28	-1,518.92	3,942.98	3,876.32	66.66	59.153	
7,400.00	7,229.33	14,790.49	9,860.64	28.08	53.54	167.12	-312.40	-1,518.93	3,894.31	3,826.75	67.56	57.644	
7,500.00	7,326.45	14,803.73	9,860.61	28.48	53.62	166.90	-325.63	-1,518.91	3,847.61	3,779.13	68.48	56.186	
7,600.00	7,423.57	14,817.07	9,860.58	28.87	53.69	166.67	-338.98	-1,518.86	3,802.94	3,733.52	69.42	54.781	
7,700.00	7,520.69	14,830.52	9,860.54	29.27	53.76	166.45	-352.43	-1,518.78	3,760.38	3,690.00	70.38	53.430	
7,700.27	7,520.96	14,830.56	9,860.54	29.27	53.76	166.45	-352.47	-1,518.78	3,760.27	3,689.89	70.38	53.426	
7,800.00	7,618.21	14,843.07	9,860.50	29.66	53.83	166.02	-364.98	-1,518.68	3,718.46	3,647.12	71.34	52.122	
7,900.00	7,716.43	14,815.79	9,860.57	30.04	53.68	166.26	-337.69	-1,518.76	3,675.66	3,603.52	72.13	50.958	
8,000.00	7,815.25	14,844.59	9,860.50	30.41	53.84	165.52	-366.50	-1,518.68	3,632.05	3,558.90	73.15	49.651	
8,100.00	7,914.55	14,847.28	9,860.49	30.78	53.85	165.22	-369.19	-1,518.66	3,587.60	3,513.55	74.05	48.446	
8,200.00	8,014.19	14,849.11	9,860.49	31.13	53.86	164.93	-371.02	-1,518.65	3,542.36	3,467.42	74.94	47.267	
8,300.00	8,114.07	14,850.07	9,860.49	31.47	53.87	164.64	-371.97	-1,518.64	3,496.35	3,420.54	75.82	46.115	
8,389.47	8,203.52	14,850.19	9,860.49	31.77	53.87	-90.49	-372.09	-1,518.64	3,454.57	3,377.99	76.58	45.111	
8,400.00	8,214.05	14,850.25	9,860.49	31.80	53.87	90.32	-372.16	-1,518.64	3,449.63	3,372.96	76.67	44.994	
8,450.00	8,263.94	14,853.02	9,860.48	31.95	53.88	92.87	-374.93	-1,518.62	3,426.56	3,349.45	77.11	44.439	
8,500.00	8,313.37	14,859.86	9,860.46	32.11	53.92	95.23	-381.76	-1,518.58	3,404.25	3,326.68	77.57	43.885	
8,550.00	8,361.96	14,870.71	9,860.43	32.27	53.98	97.38	-392.62	-1,518.50	3,382.87	3,304.82	78.06	43.338	
8,600.00	8,409.35	14,885.51	9,860.40	32.42	54.06	99.32	-407.41	-1,518.41	3,362.56	3,284.00	78.56	42.800	
8,650.00	8,455.17	14,904.14	9,860.35	32.57	54.17	101.05	-426.04	-1,518.29	3,343.44	3,264.35	79.09	42.276	
8,700.00	8,499.07	14,929.07	9,860.30	32.71	54.30	102.53	-450.97	-1,518.14	3,325.60	3,245.96	79.63	41.763	
8,750.00	8,540.73	14,993.07	9,860.31	32.85	54.66	103.30	-514.96	-1,516.86	3,308.55	3,228.24	80.31	41.197	
8,800.00	8,579.82	15,019.00	9,860.31	32.99	54.80	104.52	-540.88	-1,516.36	3,293.11	3,212.27	80.85	40.733	
8,850.00	8,616.04	15,058.10	9,860.30	33.11	55.02	105.44	-579.97	-1,515.36	3,278.84	3,197.42	81.42	40.270	
8,900.00	8,649.13	15,076.62	9,860.24	33.24	55.12	106.46	-598.49	-1,515.08	3,266.35	3,184.44	81.91	39.877	
8,950.00	8,678.82	15,113.00	9,860.01	33.36	55.33	107.16	-634.87	-1,514.92	3,255.64	3,173.19	82.45	39.486	
9,000.00	8,704.90	15,121.33	9,859.94	33.47	55.37	107.97	-643.20	-1,514.94	3,246.50	3,163.63	82.87	39.176	
9,050.00	8,727.16	15,163.01	9,859.64	33.58	55.61	108.37	-684.87	-1,515.05	3,239.06	3,155.67	83.39	38.842	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 7H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,745.44	15,207.00	9,859.41	33.70	55.86	108.66	-728.86	-1,515.18	3,233.14	3,149.24	83.90	38.536	
9,139.47	8,756.95	15,235.30	9,859.30	33.78	56.02	108.85	-757.17	-1,515.31	3,229.57	3,145.31	84.26	38.330	
9,200.00	8,771.07	15,280.22	9,859.21	33.92	56.27	108.86	-802.08	-1,515.64	3,225.54	3,140.75	84.79	38.041	
9,300.00	8,787.52	15,338.42	9,859.26	34.14	56.61	108.86	-860.27	-1,516.46	3,221.99	3,136.42	85.57	37.653	
9,332.62	8,791.02	15,355.41	9,859.32	34.22	56.71	108.84	-877.27	-1,516.86	3,221.76	3,135.96	85.80	37.549	
9,400.00	8,795.32	15,448.40	9,859.68	34.37	57.24	108.71	-970.22	-1,519.07	3,222.30	3,135.80	86.50	37.251	
9,439.47	8,796.00	15,590.65	9,859.45	34.46	58.07	108.66	-1,112.46	-1,519.10	3,222.00	3,134.75	87.25	36.930	
9,500.00	8,796.00	15,632.73	9,859.47	34.60	58.31	108.67	-1,154.54	-1,518.64	3,221.62	3,133.93	87.69	36.737	
9,556.38	8,796.00	15,676.00	9,859.69	34.74	58.57	108.67	-1,197.80	-1,518.29	3,221.51	3,133.38	88.13	36.553	
9,600.00	8,796.00	15,707.02	9,859.91	34.85	58.75	108.67	-1,228.82	-1,518.14	3,221.60	3,133.13	88.46	36.418	
9,700.00	8,796.00	15,823.74	9,860.27	35.10	59.44	108.68	-1,345.54	-1,517.95	3,222.00	3,132.57	89.42	36.032	
9,800.00	8,796.00	15,949.04	9,859.60	35.37	60.18	108.67	-1,470.82	-1,516.51	3,221.07	3,130.63	90.44	35.616	
9,900.00	8,796.00	16,043.26	9,858.95	35.65	60.75	108.66	-1,565.04	-1,515.51	3,220.26	3,128.92	91.35	35.253	
10,000.00	8,796.00	16,206.94	9,856.21	35.94	61.74	108.64	-1,728.63	-1,511.46	3,217.32	3,124.75	92.57	34.754	
10,100.00	8,796.00	16,273.23	9,856.14	36.24	62.14	108.64	-1,794.90	-1,509.63	3,215.12	3,121.72	93.40	34.423	
10,200.00	8,796.00	16,333.00	9,855.99	36.55	62.51	108.65	-1,854.66	-1,508.70	3,214.02	3,119.81	94.20	34.118	
10,240.59	8,796.00	16,360.33	9,855.83	36.69	62.67	108.64	-1,881.98	-1,508.55	3,213.91	3,119.36	94.55	33.992	
10,300.00	8,796.00	16,394.81	9,855.54	36.88	62.88	108.64	-1,916.46	-1,508.63	3,214.14	3,119.11	95.03	33.824	
10,400.00	8,796.00	16,450.44	9,854.85	37.22	63.23	108.62	-1,972.08	-1,509.46	3,215.58	3,119.76	95.82	33.558	
10,500.00	8,796.00	16,709.00	9,844.53	37.57	64.84	108.44	-2,230.27	-1,509.34	3,213.75	3,116.11	97.64	32.914	
10,600.00	8,796.00	16,803.00	9,842.00	37.93	65.43	108.41	-2,324.20	-1,507.09	3,211.05	3,112.38	98.67	32.544	
10,698.06	8,796.00	16,818.26	9,841.70	38.29	65.53	108.40	-2,339.45	-1,507.11	3,209.97	3,110.66	99.32	32.320	
10,700.00	8,796.00	16,819.73	9,841.68	38.29	65.54	108.40	-2,340.93	-1,507.12	3,209.97	3,110.64	99.34	32.314	
10,800.00	8,796.00	16,897.00	9,840.42	38.68	66.02	108.38	-2,418.18	-1,507.51	3,210.36	3,110.07	100.29	32.009	
10,900.00	8,796.00	16,990.00	9,839.24	39.07	66.61	108.35	-2,511.17	-1,508.18	3,211.07	3,109.73	101.34	31.686	
11,000.00	8,796.00	17,072.90	9,839.65	39.47	67.14	108.35	-2,594.07	-1,508.59	3,212.15	3,109.80	102.34	31.386	
11,100.00	8,796.00	17,263.28	9,841.16	39.88	68.35	108.38	-2,784.42	-1,506.94	3,211.79	3,107.89	103.90	30.912	
11,200.00	8,796.00	17,338.99	9,840.45	40.30	68.83	108.38	-2,860.11	-1,505.65	3,210.42	3,105.52	104.90	30.604	
11,300.00	8,796.00	17,491.97	9,837.14	40.73	69.82	108.33	-3,013.00	-1,503.21	3,208.45	3,102.15	106.31	30.181	
11,400.00	8,796.00	17,555.00	9,837.78	41.16	70.22	108.34	-3,076.02	-1,502.35	3,207.49	3,100.23	107.26	29.903	
11,434.65	8,796.00	17,555.00	9,837.78	41.32	70.22	108.34	-3,076.02	-1,502.35	3,207.30	3,099.82	107.48	29.841	
11,500.00	8,796.00	17,632.18	9,838.78	41.61	70.72	108.36	-3,153.19	-1,501.98	3,207.61	3,099.32	108.29	29.620	
11,600.00	8,796.00	17,743.00	9,840.82	42.07	71.44	108.41	-3,263.95	-1,499.54	3,206.46	3,096.95	109.50	29.282	
11,668.71	8,796.00	17,789.15	9,842.26	42.38	71.75	108.44	-3,310.07	-1,498.44	3,205.99	3,095.80	110.18	29.097	
11,700.00	8,796.00	17,803.54	9,842.49	42.53	71.84	108.44	-3,324.45	-1,498.34	3,206.07	3,095.61	110.45	29.026	
11,800.00	8,796.00	17,880.88	9,842.49	43.00	72.34	108.43	-3,401.79	-1,499.09	3,207.30	3,095.80	111.51	28.763	
11,900.00	8,796.00	17,986.47	9,842.48	43.48	73.04	108.43	-3,507.37	-1,499.62	3,208.18	3,095.46	112.73	28.460	
12,000.00	8,796.00	18,063.10	9,843.23	43.97	73.54	108.44	-3,584.00	-1,500.15	3,209.58	3,095.79	113.78	28.208	
12,100.00	8,796.00	18,146.22	9,843.82	44.46	74.09	108.44	-3,667.11	-1,501.51	3,211.75	3,096.86	114.88	27.957	
12,200.00	8,796.00	18,256.75	9,844.47	44.97	74.82	108.43	-3,777.62	-1,503.26	3,213.85	3,097.69	116.16	27.668	
12,300.00	8,796.00	18,354.83	9,844.96	45.47	75.47	108.43	-3,875.69	-1,504.70	3,215.82	3,098.45	117.37	27.400	
12,400.00	8,796.00	18,486.56	9,845.71	45.99	76.34	108.43	-4,007.41	-1,506.34	3,217.67	3,098.88	118.79	27.087	
12,500.00	8,796.00	18,702.33	9,848.22	46.51	77.78	108.49	-4,223.11	-1,502.61	3,216.69	3,096.02	120.67	26.656	
12,600.00	8,796.00	18,843.36	9,845.11	47.04	78.73	108.46	-4,364.02	-1,498.15	3,213.37	3,091.22	122.14	26.308	
12,700.00	8,796.00	18,952.33	9,846.05	47.58	79.46	108.50	-4,472.85	-1,492.76	3,209.36	3,085.92	123.44	25.999	
12,800.00	8,796.00	19,058.26	9,847.03	48.12	80.18	108.55	-4,578.63	-1,487.28	3,205.17	3,080.44	124.73	25.696	
12,900.00	8,796.00	19,106.39	9,847.56	48.66	80.50	108.57	-4,626.71	-1,485.13	3,201.70	3,075.96	125.74	25.463	
13,000.00	8,796.00	19,157.12	9,848.20	49.22	80.84	108.59	-4,677.42	-1,483.71	3,199.83	3,073.09	126.74	25.247	
13,100.00	8,796.00	19,246.00	9,849.17	49.77	81.45	108.61	-4,766.28	-1,482.07	3,198.85	3,070.89	127.96	25.000	
13,183.71	8,796.00	19,304.74	9,849.68	50.25	81.85	108.62	-4,825.01	-1,481.37	3,198.50	3,069.61	128.88	24.817	CC
13,200.00	8,796.00	19,315.84	9,849.78	50.34	81.92	108.62	-4,836.11	-1,481.30	3,198.51	3,069.45	129.06	24.783	
13,209.11	8,796.00	19,322.05	9,849.83	50.39	81.96	108.62	-4,842.32	-1,481.26	3,198.53	3,069.37	129.16	24.764	ES

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 7H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,250.00	8,796.00	19,340.00	9,849.99	50.62	82.09	108.67	-4,860.27	-1,481.20	3,200.03	3,070.48	129.54	24.702	
13,300.00	8,796.00	19,381.60	9,850.34	50.92	82.37	108.82	-4,901.87	-1,481.28	3,205.56	3,075.42	130.14	24.631	
13,350.00	8,796.00	19,413.31	9,850.59	51.22	82.58	109.08	-4,933.58	-1,481.56	3,215.20	3,084.52	130.68	24.604	SF
13,400.00	8,796.00	19,446.63	9,850.84	51.52	82.81	109.47	-4,966.89	-1,482.04	3,228.84	3,097.62	131.22	24.606	
13,450.00	8,796.00	19,483.52	9,851.16	51.83	83.06	109.98	-5,003.77	-1,482.68	3,246.31	3,114.52	131.79	24.632	
13,500.00	8,796.00	19,519.01	9,851.53	52.14	83.31	110.63	-5,039.25	-1,483.39	3,267.45	3,135.11	132.34	24.690	
13,550.00	8,796.00	19,548.56	9,851.86	52.45	83.51	111.49	-5,068.79	-1,484.08	3,292.15	3,159.30	132.84	24.782	
13,600.00	8,796.00	19,574.66	9,852.08	52.75	83.69	112.56	-5,094.88	-1,484.83	3,320.26	3,186.95	133.31	24.906	
13,650.00	8,796.00	19,598.91	9,852.22	53.04	83.85	113.91	-5,119.12	-1,485.65	3,351.60	3,217.85	133.75	25.059	
13,700.00	8,796.00	19,622.00	9,852.30	53.33	84.01	115.60	-5,142.19	-1,486.55	3,385.91	3,251.74	134.17	25.236	
13,750.00	8,796.00	19,622.00	9,852.30	53.61	84.01	117.94	-5,142.19	-1,486.55	3,423.03	3,288.65	134.39	25.472	
13,800.00	8,796.00	19,653.46	9,852.41	53.87	84.22	120.56	-5,173.62	-1,487.96	3,462.49	3,327.65	134.84	25.679	
13,850.00	8,796.00	19,666.57	9,852.48	54.12	84.31	124.17	-5,186.71	-1,488.62	3,504.20	3,369.07	135.13	25.933	
13,900.00	8,796.00	19,677.59	9,852.54	54.35	84.39	128.93	-5,197.72	-1,489.21	3,547.78	3,412.40	135.38	26.207	
13,950.00	8,796.00	19,686.49	9,852.59	54.56	84.45	135.30	-5,206.60	-1,489.70	3,592.91	3,457.32	135.59	26.498	
14,000.00	8,796.00	19,709.00	9,852.75	54.76	84.60	143.36	-5,229.07	-1,491.04	3,639.34	3,503.44	135.91	26.778	
14,050.00	8,796.00	19,709.00	9,852.75	54.93	84.60	154.92	-5,229.07	-1,491.04	3,686.58	3,550.57	136.01	27.105	
14,100.00	8,796.00	19,709.00	9,852.75	55.08	84.60	169.50	-5,229.07	-1,491.04	3,734.41	3,598.31	136.10	27.439	
14,150.00	8,796.00	19,709.00	9,852.75	55.20	84.60	-174.14	-5,229.07	-1,491.04	3,782.50	3,646.33	136.17	27.779	
14,200.00	8,796.00	19,709.00	9,852.75	55.31	84.60	-158.50	-5,229.07	-1,491.04	3,830.52	3,694.30	136.22	28.120	
14,250.00	8,796.00	19,709.00	9,852.75	55.39	84.60	-145.53	-5,229.07	-1,491.04	3,878.18	3,741.92	136.26	28.462	
14,300.00	8,796.00	19,709.00	9,852.75	55.45	84.60	-135.62	-5,229.07	-1,491.04	3,925.16	3,788.87	136.28	28.801	
14,350.00	8,796.00	19,681.40	9,852.56	55.48	84.42	-127.71	-5,201.51	-1,489.42	3,970.99	3,834.93	136.06	29.186	
14,400.00	8,796.00	19,671.85	9,852.50	55.49	84.35	-122.23	-5,191.98	-1,488.90	4,015.64	3,879.66	135.98	29.532	
14,450.00	8,796.00	19,660.56	9,852.45	55.48	84.27	-118.09	-5,180.71	-1,488.31	4,058.72	3,922.85	135.87	29.872	
14,500.00	8,796.00	19,647.62	9,852.39	55.45	84.18	-114.92	-5,167.79	-1,487.68	4,099.99	3,964.24	135.75	30.204	
14,550.00	8,796.00	19,622.00	9,852.30	55.40	84.01	-112.37	-5,142.19	-1,486.55	4,139.21	4,003.71	135.50	30.547	
14,600.00	8,796.00	19,622.00	9,852.30	55.33	84.01	-110.50	-5,142.19	-1,486.55	4,176.08	4,040.60	135.48	30.825	
14,650.00	8,796.00	19,596.11	9,852.21	55.25	83.83	-108.89	-5,116.32	-1,485.55	4,210.42	4,075.20	135.22	31.137	
14,700.00	8,796.00	19,574.41	9,852.08	55.15	83.68	-107.62	-5,094.63	-1,484.82	4,242.03	4,107.03	135.00	31.421	
14,750.00	8,796.00	19,551.42	9,851.88	55.04	83.53	-106.58	-5,071.65	-1,484.16	4,270.71	4,135.94	134.77	31.688	
14,800.00	8,796.00	19,529.00	9,851.65	54.92	83.37	-105.75	-5,049.24	-1,483.61	4,296.29	4,161.74	134.55	31.932	
14,850.00	8,796.00	19,493.62	9,851.26	54.79	83.13	-105.06	-5,013.87	-1,482.88	4,318.58	4,184.37	134.21	32.177	
14,900.00	8,796.00	19,459.28	9,850.94	54.65	82.90	-104.52	-4,979.54	-1,482.25	4,337.41	4,203.51	133.89	32.395	
14,950.00	8,796.00	19,434.00	9,850.74	54.51	82.73	-104.12	-4,954.26	-1,481.84	4,352.67	4,219.03	133.64	32.569	
15,000.00	8,796.00	19,398.83	9,850.48	54.37	82.49	-103.82	-4,919.09	-1,481.41	4,364.31	4,230.99	133.32	32.735	
15,050.00	8,796.00	19,370.91	9,850.25	54.22	82.30	-103.62	-4,891.18	-1,481.23	4,372.32	4,239.27	133.06	32.860	
15,099.11	8,796.00	19,340.00	9,849.99	54.08	82.09	-103.52	-4,860.27	-1,481.20	4,376.60	4,243.83	132.78	32.962	
15,100.00	8,796.00	19,340.00	9,849.99	54.08	82.09	-103.52	-4,860.27	-1,481.20	4,376.65	4,243.87	132.78	32.963	
15,200.00	8,796.00	19,282.60	9,849.49	53.80	81.70	-103.48	-4,802.87	-1,481.57	4,380.46	4,248.21	132.25	33.123	
15,263.03	8,796.00	19,246.00	9,849.17	53.63	81.45	-103.47	-4,766.28	-1,482.07	4,381.58	4,249.66	131.91	33.215	
15,300.00	8,796.00	19,211.97	9,848.84	53.53	81.22	-103.47	-4,732.25	-1,482.65	4,381.96	4,250.33	131.63	33.290	
15,400.00	8,796.00	19,152.00	9,848.14	53.27	80.81	-103.46	-4,672.30	-1,483.82	4,383.30	4,252.22	131.09	33.438	
15,500.00	8,796.00	19,099.53	9,847.48	53.02	80.46	-103.44	-4,619.86	-1,485.39	4,385.67	4,255.07	130.60	33.581	
15,600.00	8,796.00	19,061.86	9,847.07	52.78	80.20	-103.43	-4,582.22	-1,487.09	4,389.44	4,259.24	130.20	33.713	
15,700.00	8,796.00	18,952.55	9,846.05	52.54	79.47	-103.40	-4,473.07	-1,492.75	4,393.84	4,264.49	129.35	33.969	
15,800.00	8,796.00	18,824.50	9,845.31	52.31	78.60	-103.38	-4,345.18	-1,498.92	4,398.02	4,269.64	128.39	34.256	
15,900.00	8,796.00	18,662.02	9,847.44	52.09	77.51	-103.39	-4,182.83	-1,504.02	4,400.96	4,273.75	127.21	34.595	
16,000.00	8,796.00	18,371.26	9,845.02	51.88	75.58	-103.36	-3,892.12	-1,504.97	4,399.97	4,274.83	125.14	35.160	
16,100.00	8,796.00	18,277.74	9,844.58	51.68	74.96	-103.36	-3,798.61	-1,503.57	4,397.99	4,273.52	124.47	35.335	
16,200.00	8,796.00	18,165.84	9,843.93	51.49	74.22	-103.36	-3,686.72	-1,501.86	4,395.95	4,272.28	123.67	35.545	
16,300.00	8,796.00	18,078.73	9,843.37	51.30	73.64	-103.36	-3,599.63	-1,500.35	4,393.72	4,270.66	123.07	35.702	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 7H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,400.00	8,796.00	18,011.59	9,842.68	51.13	73.20	-103.35	-3,532.49	-1,499.75	4,392.19	4,269.58	122.61	35.823	
16,500.00	8,796.00	17,938.20	9,842.35	50.96	72.72	-103.35	-3,459.11	-1,499.42	4,391.26	4,269.14	122.11	35.961	
16,600.00	8,796.00	17,837.00	9,842.64	50.80	72.06	-103.36	-3,357.91	-1,498.55	4,390.05	4,268.61	121.44	36.149	
16,669.58	8,796.00	17,793.80	9,842.34	50.70	71.78	-103.36	-3,314.71	-1,498.40	4,389.58	4,268.41	121.16	36.228	
16,700.00	8,796.00	17,783.14	9,842.13	50.65	71.71	-103.35	-3,304.06	-1,498.52	4,389.65	4,268.55	121.09	36.250	
16,800.00	8,796.00	17,726.29	9,840.46	50.51	71.34	-103.33	-3,247.26	-1,499.94	4,390.81	4,270.09	120.72	36.372	
16,900.00	8,796.00	17,555.00	9,837.78	50.38	70.22	-103.29	-3,076.02	-1,502.35	4,391.38	4,271.75	119.63	36.707	
16,908.29	8,796.00	17,555.00	9,837.78	50.37	70.22	-103.29	-3,076.02	-1,502.35	4,391.38	4,271.74	119.63	36.707	
17,000.00	8,796.00	17,514.12	9,837.20	50.26	69.96	-103.28	-3,035.15	-1,502.71	4,391.72	4,272.33	119.39	36.785	
17,100.00	8,796.00	17,436.30	9,837.96	50.15	69.46	-103.29	-2,957.37	-1,504.66	4,393.77	4,274.86	118.92	36.948	
17,200.00	8,796.00	17,314.99	9,840.91	50.05	68.68	-103.32	-2,836.11	-1,505.84	4,394.79	4,276.59	118.21	37.179	
17,300.00	8,796.00	17,224.24	9,841.15	49.97	68.10	-103.32	-2,745.39	-1,507.67	4,396.37	4,278.69	117.69	37.357	
17,400.00	8,796.00	17,021.25	9,839.07	49.89	66.81	-103.29	-2,542.42	-1,508.35	4,395.48	4,278.99	116.50	37.731	
17,500.00	8,796.00	16,925.61	9,840.04	49.82	66.20	-103.31	-2,446.79	-1,507.74	4,394.67	4,278.68	115.98	37.890	
17,600.00	8,796.00	16,844.88	9,841.22	49.76	65.69	-103.33	-2,366.07	-1,507.19	4,393.95	4,278.37	115.58	38.018	
17,660.12	8,796.00	16,803.00	9,842.00	49.73	65.43	-103.34	-2,324.20	-1,507.09	4,393.82	4,278.44	115.38	38.083	
17,700.00	8,796.00	16,803.00	9,842.00	49.72	65.43	-103.34	-2,324.20	-1,507.09	4,394.00	4,278.60	115.40	38.076	
17,800.00	8,796.00	16,761.39	9,842.96	49.68	65.17	-103.35	-2,282.60	-1,507.52	4,395.38	4,280.16	115.22	38.148	
17,900.00	8,796.00	16,709.00	9,844.53	49.66	64.84	-103.36	-2,230.27	-1,509.34	4,398.62	4,283.64	114.98	38.257	
18,000.00	8,796.00	16,427.00	9,855.19	49.65	63.08	-103.50	-1,948.65	-1,509.00	4,397.31	4,283.77	113.53	38.732	
18,100.00	8,796.00	16,360.29	9,855.83	49.65	62.67	-103.51	-1,881.94	-1,508.55	4,396.60	4,283.33	113.26	38.817	
18,104.65	8,796.00	16,358.02	9,855.84	49.65	62.66	-103.51	-1,879.67	-1,508.55	4,396.59	4,283.34	113.26	38.820	
18,200.00	8,796.00	16,308.81	9,856.09	49.66	62.36	-103.52	-1,830.47	-1,508.99	4,397.11	4,284.03	113.08	38.885	
18,300.00	8,796.00	16,239.00	9,856.10	49.69	61.93	-103.51	-1,760.68	-1,510.51	4,398.72	4,285.92	112.80	38.996	
18,400.00	8,796.00	16,190.03	9,856.41	49.73	61.64	-103.51	-1,711.74	-1,511.97	4,401.19	4,288.56	112.63	39.077	
18,500.00	8,796.00	15,996.58	9,859.15	49.78	60.47	-103.54	-1,518.36	-1,516.03	4,403.26	4,291.51	111.75	39.403	
18,600.00	8,796.00	15,911.14	9,859.95	49.84	59.96	-103.55	-1,432.93	-1,516.97	4,404.14	4,292.71	111.43	39.523	
18,700.00	8,796.00	15,733.18	9,860.07	49.92	58.90	-103.55	-1,254.98	-1,518.12	4,404.38	4,293.72	110.66	39.802	
18,786.58	8,796.00	15,676.00	9,859.69	50.00	58.57	-103.54	-1,197.80	-1,518.29	4,404.11	4,293.62	110.49	39.860	
18,800.00	8,796.00	15,676.00	9,859.69	50.01	58.57	-103.54	-1,197.80	-1,518.29	4,404.13	4,293.62	110.51	39.854	
18,900.00	8,796.00	15,596.65	9,859.44	50.12	58.10	-103.54	-1,118.46	-1,519.03	4,404.58	4,294.32	110.26	39.949	
19,000.00	8,796.00	15,343.57	9,859.28	50.24	56.64	-103.55	-865.43	-1,516.58	4,402.57	4,293.40	109.17	40.329	
19,100.00	8,796.00	15,301.00	9,859.20	50.37	56.39	-103.55	-822.86	-1,515.86	4,400.50	4,291.36	109.14	40.320	
19,200.00	8,796.00	15,226.92	9,859.33	50.51	55.97	-103.55	-748.79	-1,515.26	4,399.35	4,290.39	108.96	40.374	
19,300.00	8,796.00	15,140.22	9,859.79	50.67	55.48	-103.56	-662.09	-1,514.99	4,398.75	4,290.01	108.74	40.453	
19,349.47	8,796.00	15,113.00	9,860.01	50.76	55.33	-103.56	-634.87	-1,514.92	4,398.56	4,289.86	108.70	40.464	
19,400.00	8,796.00	15,084.70	9,860.20	50.85	55.17	-103.57	-606.57	-1,515.00	4,398.62	4,289.96	108.66	40.480	
19,500.00	8,796.00	15,019.00	9,860.31	51.03	54.80	-103.56	-540.88	-1,516.36	4,400.00	4,291.46	108.54	40.538	
19,600.00	8,796.00	14,874.92	9,860.42	51.23	54.01	-103.56	-396.82	-1,518.47	4,401.13	4,293.04	108.10	40.715	
19,634.41	8,796.00	14,809.10	9,860.58	51.30	53.64	-103.56	-331.01	-1,518.76	4,401.20	4,293.32	107.88	40.798	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - OH - OH Svy

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	156.78	-332.21	142.55	361.50				
100.00	100.00	96.74	96.73	0.28	0.16	156.96	-332.95	141.59	361.81	361.38	0.43	841.571	ES
200.00	200.00	195.18	195.11	0.63	0.42	157.48	-335.06	138.91	362.73	361.68	1.05	345.164	
300.00	300.00	295.69	295.52	0.99	0.78	158.19	-337.66	135.13	363.71	361.93	1.78	204.898	
400.00	400.00	395.14	394.83	1.35	1.15	158.98	-340.44	130.84	364.74	362.24	2.50	146.070	
500.00	500.00	494.35	493.91	1.71	1.51	159.76	-343.39	126.64	366.03	362.81	3.22	113.743	
600.00	599.98	593.41	592.84	2.07	1.87	160.57	-346.42	122.68	369.20	365.26	3.94	93.724	
700.00	699.84	692.66	691.96	2.43	2.24	161.53	-349.63	118.63	375.88	371.22	4.66	80.613	
750.00	749.68	742.12	741.38	2.61	2.42	161.95	-351.03	117.31	380.54	375.52	5.02	75.747	
800.00	799.49	791.45	790.69	2.79	2.59	162.28	-352.24	116.73	385.68	380.30	5.38	71.729	
900.00	899.11	891.31	890.53	3.15	2.94	162.69	-354.19	117.23	395.99	389.91	6.08	65.153	
1,000.00	998.73	991.34	990.55	3.51	3.28	163.00	-355.84	118.11	406.15	399.37	6.78	59.912	
1,001.27	1,000.00	992.62	991.82	3.51	3.28	163.01	-355.86	118.12	406.28	399.49	6.79	59.852	
1,100.00	1,098.41	1,092.63	1,091.82	3.87	3.63	140.50	-357.27	118.88	414.77	407.29	7.49	55.408	
1,200.00	1,198.13	1,192.68	1,191.86	4.22	3.98	114.61	-358.34	119.75	420.53	412.34	8.19	51.374	
1,300.00	1,297.78	1,290.46	1,289.62	4.58	4.32	94.62	-359.63	120.68	424.02	415.14	8.88	47.770	
1,400.00	1,397.23	1,390.75	1,389.90	4.93	4.67	82.44	-361.01	121.79	425.21	415.64	9.58	44.404	
1,500.00	1,496.35	1,490.98	1,490.12	5.28	5.02	75.61	-362.18	122.71	423.93	413.65	10.28	41.254	
1,600.00	1,595.04	1,590.23	1,589.37	5.63	5.37	72.06	-363.23	123.40	420.49	409.51	10.98	38.311	
1,700.00	1,693.16	1,689.00	1,688.13	5.98	5.72	70.66	-364.22	123.82	415.24	403.57	11.68	35.559	
1,792.67	1,783.48	1,780.34	1,779.47	6.31	6.05	70.76	-365.00	123.95	409.04	396.70	12.33	33.170	
1,800.00	1,790.60	1,787.57	1,786.69	6.34	6.07	70.99	-365.05	123.96	408.50	396.12	12.38	32.986	
1,900.00	1,887.72	1,885.86	1,884.98	6.70	6.42	74.14	-365.59	124.14	401.74	388.65	13.09	30.688	
2,000.00	1,984.84	1,984.68	1,983.79	7.06	6.77	77.30	-365.87	124.97	395.98	382.18	13.80	28.695	
2,100.00	2,081.96	2,079.78	2,078.87	7.43	7.10	80.23	-366.02	127.14	391.24	376.74	14.50	26.989	
2,200.00	2,179.08	2,174.91	2,173.96	7.80	7.43	83.13	-367.31	129.79	388.73	373.53	15.20	25.577	
2,300.00	2,276.20	2,272.62	2,271.57	8.17	7.77	85.96	-368.93	133.71	387.39	371.47	15.92	24.340	
2,400.00	2,373.32	2,372.57	2,371.39	8.55	8.12	88.76	-370.71	138.43	386.99	370.35	16.64	23.250	
2,462.27	2,433.80	2,435.08	2,433.87	8.78	8.34	90.66	-371.20	140.42	386.87	369.77	17.10	22.623	
2,500.00	2,470.44	2,472.39	2,471.17	8.93	8.47	91.87	-371.29	141.22	386.94	369.56	17.37	22.270	
2,600.00	2,567.56	2,571.54	2,570.30	9.30	8.81	95.15	-371.10	142.78	387.73	369.63	18.10	21.420	
2,700.00	2,664.68	2,668.51	2,667.26	9.68	9.15	98.26	-370.87	144.91	389.53	370.71	18.82	20.695	
2,800.00	2,761.80	2,765.98	2,764.71	10.07	9.49	101.36	-370.86	146.94	392.78	373.24	19.55	20.093	
2,900.00	2,858.92	2,863.98	2,862.68	10.45	9.83	104.41	-370.77	149.05	397.12	376.84	20.28	19.585	
3,000.00	2,956.04	2,962.27	2,960.95	10.83	10.18	107.38	-370.62	151.32	402.46	381.46	21.01	19.159	
3,100.00	3,053.16	3,059.65	3,058.30	11.22	10.52	110.25	-370.38	153.56	408.82	387.08	21.73	18.810	
3,200.00	3,150.29	3,157.03	3,155.65	11.60	10.86	113.04	-370.16	155.72	416.28	393.82	22.46	18.534	
3,300.00	3,247.41	3,255.91	3,254.51	11.99	11.21	115.76	-369.87	157.99	424.63	401.44	23.19	18.308	
3,400.00	3,344.53	3,353.13	3,351.69	12.38	11.55	118.30	-369.69	160.52	433.78	409.86	23.92	18.134	
3,500.00	3,441.65	3,450.18	3,448.71	12.76	11.90	120.74	-369.54	162.91	443.90	419.25	24.65	18.011	
3,600.00	3,538.77	3,546.17	3,544.69	13.15	12.23	123.08	-369.38	164.93	455.07	429.71	25.37	17.941	
3,700.00	3,635.89	3,644.55	3,643.05	13.54	12.58	125.36	-369.19	166.89	467.07	440.98	26.10	17.898	
3,800.00	3,733.01	3,740.95	3,739.42	13.93	12.92	127.49	-369.04	168.80	479.82	453.00	26.82	17.892	
3,900.00	3,830.13	3,836.71	3,835.17	14.32	13.26	129.50	-369.07	170.41	493.56	466.02	27.53	17.925	
4,000.00	3,927.25	3,934.69	3,933.14	14.71	13.61	131.43	-369.31	172.13	507.95	479.69	28.26	17.971	
4,100.00	4,024.37	4,030.72	4,029.15	15.10	13.95	133.22	-369.53	173.63	523.04	494.05	28.98	18.046	
4,200.00	4,121.49	4,127.98	4,126.40	15.49	14.30	134.94	-369.82	175.04	538.75	509.04	29.71	18.133	
4,300.00	4,218.61	4,224.57	4,222.98	15.88	14.65	136.53	-370.28	176.45	555.00	524.57	30.43	18.237	
4,400.00	4,315.73	4,320.39	4,318.79	16.27	14.99	138.00	-371.02	177.70	571.92	540.77	31.15	18.359	
4,500.00	4,412.85	4,417.44	4,415.83	16.66	15.34	139.42	-371.74	178.77	589.37	557.49	31.88	18.488	
4,600.00	4,509.97	4,514.79	4,513.18	17.05	15.69	140.76	-372.49	179.85	607.18	574.57	32.61	18.621	
4,700.00	4,607.09	4,611.80	4,610.18	17.45	16.03	142.02	-373.27	180.88	625.34	592.00	33.33	18.760	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - OH - OH Svy

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,704.21	4,708.23	4,706.59	17.84	16.38	143.21	-374.02	181.82	643.86	609.80	34.06	18.906	
4,900.00	4,801.33	4,803.68	4,802.04	18.23	16.72	144.32	-374.84	182.51	662.89	628.12	34.77	19.065	
5,000.00	4,898.45	4,899.94	4,898.29	18.62	17.06	145.37	-375.86	183.04	682.39	646.89	35.49	19.227	
5,100.00	4,995.57	4,997.15	4,995.50	19.02	17.41	146.38	-376.85	183.49	702.18	665.96	36.22	19.387	
5,200.00	5,092.69	5,095.87	5,094.21	19.41	17.76	147.33	-377.93	184.03	722.10	685.14	36.96	19.539	
5,300.00	5,189.81	5,194.28	5,192.61	19.80	18.11	148.23	-378.99	184.85	741.93	704.23	37.69	19.683	
5,400.00	5,286.93	5,291.90	5,290.22	20.20	18.46	149.07	-380.14	185.66	761.96	723.53	38.43	19.829	
5,500.00	5,384.05	5,389.22	5,387.53	20.59	18.81	149.85	-381.50	186.66	782.01	742.85	39.16	19.971	
5,600.00	5,481.17	5,483.43	5,481.72	20.98	19.15	150.55	-382.94	187.42	802.42	762.55	39.87	20.128	
5,700.00	5,578.29	5,577.68	5,575.96	21.38	19.48	151.24	-384.40	187.74	823.40	782.83	40.57	20.295	
5,800.00	5,675.41	5,673.93	5,672.19	21.77	19.83	151.89	-386.08	187.88	844.72	803.43	41.29	20.457	
5,900.00	5,772.53	5,770.60	5,768.85	22.16	20.17	152.51	-387.80	187.98	866.20	824.18	42.02	20.616	
6,000.00	5,869.65	5,865.43	5,863.66	22.56	20.50	153.09	-389.52	187.94	887.91	845.18	42.72	20.782	
6,100.00	5,966.77	5,961.46	5,959.68	22.95	20.84	153.63	-391.51	187.66	909.99	866.55	43.44	20.947	
6,200.00	6,063.89	6,061.24	6,059.43	23.35	21.20	154.17	-393.65	187.48	932.05	887.86	44.19	21.092	
6,300.00	6,161.01	6,160.97	6,159.15	23.74	21.55	154.71	-395.17	187.53	953.86	908.92	44.94	21.226	
6,400.00	6,258.13	6,257.76	6,255.93	24.14	21.89	155.23	-396.37	187.66	975.63	929.97	45.66	21.366	
6,500.00	6,355.25	6,355.76	6,353.92	24.53	22.24	155.74	-397.58	187.74	997.53	951.13	46.40	21.499	
6,600.00	6,452.37	6,464.67	6,462.83	24.92	22.62	156.31	-398.17	188.30	1,018.98	971.77	47.21	21.585	
6,700.00	6,549.49	6,568.11	6,566.25	25.32	22.98	156.92	-397.11	189.68	1,039.52	991.55	47.97	21.671	
6,800.00	6,646.61	6,667.71	6,665.83	25.71	23.32	157.51	-395.55	191.32	1,059.79	1,011.08	48.70	21.761	
6,900.00	6,743.73	6,760.00	6,758.09	26.11	23.64	158.05	-393.79	192.60	1,080.36	1,030.97	49.38	21.877	
7,000.00	6,840.85	6,855.00	6,853.07	26.50	23.97	158.57	-392.30	193.63	1,101.36	1,051.27	50.09	21.990	
7,100.00	6,937.97	6,931.42	6,929.49	26.90	24.22	158.96	-391.58	193.77	1,123.39	1,072.74	50.65	22.179	
7,200.00	7,035.09	7,016.73	7,014.79	27.29	24.51	159.36	-391.13	192.63	1,146.98	1,095.71	51.27	22.371	
7,300.00	7,132.21	7,119.40	7,117.45	27.69	24.85	159.81	-390.93	190.95	1,170.97	1,118.95	52.02	22.509	
7,400.00	7,229.33	7,217.55	7,215.59	28.08	25.18	160.25	-390.25	189.88	1,194.45	1,141.71	52.74	22.649	
7,500.00	7,326.45	7,306.63	7,304.66	28.48	25.48	160.63	-389.54	188.63	1,218.29	1,164.90	53.39	22.820	
7,600.00	7,423.57	7,401.84	7,399.85	28.87	25.80	161.03	-388.77	186.83	1,242.65	1,188.57	54.08	22.977	
7,700.00	7,520.69	7,494.85	7,492.84	29.27	26.11	161.42	-387.88	185.00	1,267.15	1,212.39	54.76	23.140	
7,700.27	7,520.96	7,495.09	7,493.07	29.27	26.11	161.42	-387.88	185.00	1,267.21	1,212.45	54.76	23.140	
7,800.00	7,618.21	7,580.30	7,578.25	29.66	26.39	161.89	-386.99	182.76	1,290.72	1,235.34	55.38	23.309	
7,900.00	7,716.43	7,667.92	7,665.81	30.04	26.69	162.30	-386.06	179.72	1,311.93	1,255.93	55.99	23.429	
8,000.00	7,815.25	7,760.96	7,758.77	30.41	27.00	162.64	-385.28	175.93	1,330.50	1,273.85	56.65	23.487	
8,100.00	7,914.55	7,874.20	7,871.92	30.78	27.39	162.90	-385.45	171.58	1,345.64	1,288.18	57.46	23.418	
8,200.00	8,014.19	8,007.60	8,005.30	31.13	27.84	163.08	-385.84	169.13	1,355.46	1,297.05	58.41	23.205	
8,300.00	8,114.07	8,122.03	8,119.72	31.47	28.24	163.17	-386.06	169.30	1,359.95	1,300.74	59.21	22.968	
8,389.47	8,203.52	8,208.67	8,206.37	31.77	28.55	-91.69	-386.28	169.69	1,360.90	1,301.10	59.80	22.758	
8,400.00	8,214.05	8,218.39	8,216.08	31.80	28.59	88.57	-386.31	169.72	1,360.87	1,301.00	59.86	22.733	
8,450.00	8,263.94	8,264.40	8,262.10	31.95	28.75	88.69	-386.46	169.76	1,360.75	1,300.58	60.17	22.616	
8,485.64	8,299.25	8,296.07	8,293.77	32.07	28.86	88.87	-386.59	169.70	1,360.71	1,300.34	60.38	22.537	
8,500.00	8,313.37	8,308.60	8,306.29	32.11	28.90	88.96	-386.65	169.66	1,360.72	1,300.26	60.46	22.506	
8,550.00	8,361.96	8,351.71	8,349.41	32.27	29.05	89.36	-386.90	169.38	1,360.88	1,300.14	60.74	22.404	
8,600.00	8,409.35	8,395.93	8,393.62	32.42	29.21	89.90	-387.23	168.94	1,361.30	1,300.26	61.04	22.303	
8,650.00	8,455.17	8,440.18	8,437.86	32.57	29.36	90.56	-387.62	168.43	1,362.01	1,300.68	61.33	22.207	
8,700.00	8,499.07	8,482.68	8,480.36	32.71	29.51	91.28	-388.07	167.89	1,363.16	1,301.55	61.62	22.123	
8,750.00	8,540.73	8,523.13	8,520.80	32.85	29.65	92.02	-388.55	167.33	1,364.93	1,303.04	61.89	22.053	
8,800.00	8,579.82	8,561.22	8,558.88	32.99	29.78	92.74	-389.06	166.76	1,367.51	1,305.35	62.16	22.001	
8,850.00	8,616.04	8,596.80	8,594.46	33.11	29.90	93.39	-389.69	166.17	1,371.09	1,308.68	62.40	21.971	
8,900.00	8,649.13	8,629.79	8,627.43	33.24	30.02	93.92	-390.45	165.59	1,375.84	1,313.20	62.64	21.964	
8,950.00	8,678.82	8,660.23	8,657.85	33.36	30.13	94.31	-391.32	165.01	1,381.95	1,319.09	62.86	21.984	
9,000.00	8,704.90	8,688.13	8,685.73	33.47	30.22	94.51	-392.19	164.48	1,389.53	1,326.46	63.07	22.032	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - OH - OH Svy

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,050.00	8,727.16	8,712.34	8,709.93	33.58	30.31	94.47	-392.98	164.02	1,398.72	1,335.46	63.25	22.114	
9,100.00	8,745.44	8,732.67	8,730.24	33.70	30.38	94.13	-393.67	163.63	1,409.60	1,346.19	63.40	22.232	
9,139.47	8,756.95	8,745.84	8,743.40	33.78	30.43	93.64	-394.13	163.38	1,419.42	1,355.91	63.51	22.351	
9,200.00	8,771.07	8,760.98	8,758.53	33.92	30.48	93.36	-394.68	163.09	1,436.51	1,372.89	63.62	22.579	
9,300.00	8,787.52	8,779.89	8,777.42	34.14	30.55	92.36	-395.39	162.69	1,469.88	1,406.12	63.76	23.053	
9,400.00	8,795.32	8,790.93	8,788.45	34.37	30.59	90.67	-395.82	162.45	1,509.30	1,445.46	63.83	23.644	
9,439.47	8,796.00	8,793.06	8,790.58	34.46	30.59	89.81	-395.90	162.40	1,526.40	1,462.56	63.84	23.908	
9,500.00	8,796.00	8,795.35	8,792.87	34.60	30.60	89.91	-395.99	162.35	1,554.22	1,490.37	63.85	24.342	
9,600.00	8,796.00	8,799.20	8,796.71	34.85	30.62	90.07	-396.15	162.26	1,604.11	1,540.26	63.85	25.122	
9,700.00	8,796.00	8,803.12	8,800.63	35.10	30.63	90.24	-396.31	162.17	1,658.53	1,594.68	63.85	25.974	
9,800.00	8,796.00	8,807.11	8,804.61	35.37	30.64	90.40	-396.47	162.08	1,717.05	1,653.20	63.85	26.892	
9,900.00	8,796.00	8,811.16	8,808.66	35.65	30.66	90.57	-396.63	161.98	1,779.25	1,715.41	63.85	27.868	
10,000.00	8,796.00	8,815.30	8,812.79	35.94	30.67	90.74	-396.81	161.88	1,844.78	1,780.93	63.84	28.896	
10,100.00	8,796.00	8,819.50	8,816.99	36.24	30.69	90.92	-396.98	161.77	1,913.27	1,849.44	63.84	29.970	
10,200.00	8,796.00	8,823.79	8,821.27	36.55	30.70	91.10	-397.16	161.67	1,984.44	1,920.60	63.84	31.086	
10,300.00	8,796.00	8,828.07	8,825.55	36.88	30.72	91.28	-397.35	161.56	2,058.00	1,994.16	63.84	32.239	
10,400.00	8,796.00	8,832.35	8,829.82	37.22	30.73	91.46	-397.53	161.45	2,133.70	2,069.86	63.84	33.424	
10,500.00	8,796.00	8,836.63	8,834.10	37.57	30.75	91.64	-397.71	161.35	2,211.32	2,147.48	63.84	34.638	
10,600.00	8,796.00	8,840.91	8,838.38	37.93	30.76	91.81	-397.89	161.24	2,290.67	2,226.83	63.85	35.878	
10,700.00	8,796.00	8,845.20	8,842.66	38.29	30.78	91.99	-398.07	161.13	2,371.58	2,307.73	63.85	37.141	
10,800.00	8,796.00	12,455.00	10,757.23	38.68	47.99	144.74	-2,384.61	151.52	2,403.69	2,334.34	69.35	34.661	
10,900.00	8,796.00	12,455.00	10,757.23	39.07	47.99	144.74	-2,384.61	151.52	2,407.82	2,337.95	69.87	34.460	
11,000.00	8,796.00	12,455.00	10,757.23	39.47	47.99	144.74	-2,384.61	151.52	2,416.09	2,345.70	70.40	34.321	
11,100.00	8,796.00	12,455.00	10,757.23	39.88	47.99	144.74	-2,384.61	151.52	2,428.46	2,357.54	70.92	34.242	
11,200.00	8,796.00	12,455.00	10,757.23	40.30	47.99	144.74	-2,384.61	151.52	2,444.85	2,373.42	71.43	34.225	
11,300.00	8,796.00	12,455.00	10,757.23	40.73	47.99	144.74	-2,384.61	151.52	2,465.19	2,393.26	71.94	34.269	
11,400.00	8,796.00	12,455.00	10,757.23	41.16	47.99	144.74	-2,384.61	151.52	2,489.39	2,416.97	72.42	34.372	
11,500.00	8,796.00	12,455.00	10,757.23	41.61	47.99	144.74	-2,384.61	151.52	2,517.33	2,444.44	72.89	34.534	
11,600.00	8,796.00	12,455.00	10,757.23	42.07	47.99	144.74	-2,384.61	151.52	2,548.89	2,475.55	73.34	34.753	
11,700.00	8,796.00	12,455.00	10,757.23	42.53	47.99	144.74	-2,384.61	151.52	2,583.94	2,510.17	73.77	35.028	
11,800.00	8,796.00	12,455.00	10,757.23	43.00	47.99	144.74	-2,384.61	151.52	2,622.33	2,548.16	74.17	35.355	
11,900.00	8,796.00	12,455.00	10,757.23	43.48	47.99	144.74	-2,384.61	151.52	2,663.93	2,589.38	74.55	35.734	
12,000.00	8,796.00	12,455.00	10,757.23	43.97	47.99	144.74	-2,384.61	151.52	2,708.58	2,633.68	74.90	36.161	
12,100.00	8,796.00	12,455.00	10,757.23	44.46	47.99	144.74	-2,384.61	151.52	2,756.14	2,680.91	75.23	36.635	
12,200.00	8,796.00	12,455.00	10,757.23	44.97	47.99	144.74	-2,384.61	151.52	2,806.46	2,730.92	75.54	37.153	
12,300.00	8,796.00	12,455.00	10,757.23	45.47	47.99	144.74	-2,384.61	151.52	2,859.39	2,783.57	75.82	37.713	
12,400.00	8,796.00	12,455.00	10,757.23	45.99	47.99	144.74	-2,384.61	151.52	2,914.79	2,838.71	76.08	38.312	
12,500.00	8,796.00	12,455.00	10,757.23	46.51	47.99	144.74	-2,384.61	151.52	2,972.52	2,896.20	76.32	38.949	
12,600.00	8,796.00	12,455.00	10,757.23	47.04	47.99	144.74	-2,384.61	151.52	3,032.45	2,955.91	76.54	39.620	
12,700.00	8,796.00	12,455.00	10,757.23	47.58	47.99	144.74	-2,384.61	151.52	3,094.46	3,017.72	76.74	40.325	
12,800.00	8,796.00	12,455.00	10,757.23	48.12	47.99	144.74	-2,384.61	151.52	3,158.41	3,081.49	76.92	41.061	
12,900.00	8,796.00	12,455.00	10,757.23	48.66	47.99	144.74	-2,384.61	151.52	3,224.20	3,147.11	77.09	41.825	
13,000.00	8,796.00	12,455.00	10,757.23	49.22	47.99	144.74	-2,384.61	151.52	3,291.71	3,214.47	77.24	42.617	
13,100.00	8,796.00	12,455.00	10,757.23	49.77	47.99	144.74	-2,384.61	151.52	3,360.84	3,283.46	77.38	43.434	
13,200.00	8,796.00	12,455.00	10,757.23	50.34	47.99	144.74	-2,384.61	151.52	3,431.49	3,353.98	77.50	44.275	
13,209.11	8,796.00	12,455.00	10,757.23	50.39	47.99	144.74	-2,384.61	151.52	3,438.00	3,360.48	77.52	44.352	
13,250.00	8,796.00	12,455.00	10,757.23	50.62	47.99	148.15	-2,384.61	151.52	3,467.88	3,390.31	77.57	44.706	
13,300.00	8,796.00	12,455.00	10,757.23	50.92	47.99	152.95	-2,384.61	151.52	3,506.00	3,428.34	77.66	45.148	
13,350.00	8,796.00	12,455.00	10,757.23	51.22	47.99	158.46	-2,384.61	151.52	3,545.56	3,467.81	77.76	45.598	
13,400.00	8,796.00	12,455.00	10,757.23	51.52	47.99	164.68	-2,384.61	151.52	3,586.27	3,508.40	77.87	46.053	
13,450.00	8,796.00	12,455.00	10,757.23	51.83	47.99	171.51	-2,384.61	151.52	3,627.81	3,549.81	78.00	46.508	
13,500.00	8,796.00	12,455.00	10,757.23	52.14	47.99	178.76	-2,384.61	151.52	3,669.89	3,591.74	78.15	46.959	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - OH - OH Svy

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,550.00	8,796.00	12,455.00	10,757.23	52.45	47.99	-173.82	-2,384.61	151.52	3,712.21	3,633.90	78.31	47.403	
13,600.00	8,796.00	12,455.00	10,757.23	52.75	47.99	-166.53	-2,384.61	151.52	3,754.49	3,676.01	78.49	47.837	
13,650.00	8,796.00	12,455.00	10,757.23	53.04	47.99	-159.63	-2,384.61	151.52	3,796.46	3,717.78	78.67	48.256	
13,700.00	8,796.00	12,455.00	10,757.23	53.33	47.99	-153.31	-2,384.61	151.52	3,837.84	3,758.96	78.87	48.658	
13,750.00	8,796.00	12,455.00	10,757.23	53.61	47.99	-147.68	-2,384.61	151.52	3,878.38	3,799.30	79.09	49.039	
13,800.00	8,796.00	12,455.00	10,757.23	53.87	47.99	-142.74	-2,384.61	151.52	3,917.86	3,838.54	79.31	49.397	
13,850.00	8,796.00	12,455.00	10,757.23	54.12	47.99	-138.47	-2,384.61	151.52	3,956.03	3,876.47	79.55	49.728	
13,900.00	8,796.00	12,455.00	10,757.23	54.35	47.99	-134.80	-2,384.61	151.52	3,992.69	3,912.88	79.80	50.031	
13,950.00	8,796.00	12,455.00	10,757.23	54.56	47.99	-131.67	-2,384.61	151.52	4,027.63	3,947.56	80.07	50.302	
14,000.00	8,796.00	12,455.00	10,757.23	54.76	47.99	-129.01	-2,384.61	151.52	4,060.68	3,980.33	80.35	50.540	
14,050.00	8,796.00	12,455.00	10,757.23	54.93	47.99	-126.74	-2,384.61	151.52	4,091.65	4,011.02	80.63	50.743	
14,100.00	8,796.00	12,455.00	10,757.23	55.08	47.99	-124.82	-2,384.61	151.52	4,120.40	4,039.47	80.94	50.909	
14,150.00	8,796.00	12,455.00	10,757.23	55.20	47.99	-123.20	-2,384.61	151.52	4,146.79	4,065.53	81.25	51.037	
14,200.00	8,796.00	12,455.00	10,757.23	55.31	47.99	-121.83	-2,384.61	151.52	4,170.67	4,089.09	81.58	51.126	
14,250.00	8,796.00	12,455.00	10,757.23	55.39	47.99	-120.69	-2,384.61	151.52	4,191.93	4,110.02	81.91	51.175	
14,300.00	8,796.00	12,455.00	10,757.23	55.45	47.99	-119.75	-2,384.61	151.52	4,210.49	4,128.22	82.26	51.184	
14,350.00	8,796.00	12,455.00	10,757.23	55.48	47.99	-118.99	-2,384.61	151.52	4,226.24	4,143.62	82.62	51.153	
14,400.00	8,796.00	12,455.00	10,757.23	55.49	47.99	-118.39	-2,384.61	151.52	4,239.11	4,156.12	82.99	51.081	
14,450.00	8,796.00	12,455.00	10,757.23	55.48	47.99	-117.94	-2,384.61	151.52	4,249.05	4,165.69	83.36	50.970	
14,500.00	8,796.00	12,455.00	10,757.23	55.45	47.99	-117.63	-2,384.61	151.52	4,256.01	4,172.27	83.75	50.820	
14,550.00	8,796.00	12,455.00	10,757.23	55.40	47.99	-117.46	-2,384.61	151.52	4,259.96	4,175.83	84.14	50.632	
14,600.00	8,796.00	12,455.00	10,757.23	55.33	47.99	-117.42	-2,384.61	151.52	4,260.89	4,176.35	84.53	50.406	
14,650.00	8,796.00	12,455.00	10,757.23	55.25	47.99	-117.51	-2,384.61	151.52	4,258.77	4,173.84	84.93	50.145	
14,700.00	8,796.00	12,455.00	10,757.23	55.15	47.99	-117.74	-2,384.61	151.52	4,253.64	4,168.31	85.33	49.849	
14,750.00	8,796.00	12,455.00	10,757.23	55.04	47.99	-118.10	-2,384.61	151.52	4,245.50	4,159.77	85.73	49.521	
14,800.00	8,796.00	12,455.00	10,757.23	54.92	47.99	-118.60	-2,384.61	151.52	4,234.40	4,148.27	86.13	49.162	
14,850.00	8,796.00	12,455.00	10,757.23	54.79	47.99	-119.27	-2,384.61	151.52	4,220.39	4,133.86	86.53	48.773	
14,900.00	8,796.00	12,455.00	10,757.23	54.65	47.99	-120.09	-2,384.61	151.52	4,203.53	4,116.60	86.93	48.357	
14,950.00	8,796.00	12,455.00	10,757.23	54.51	47.99	-121.11	-2,384.61	151.52	4,183.90	4,096.58	87.32	47.915	
15,000.00	8,796.00	12,455.00	10,757.23	54.37	47.99	-122.34	-2,384.61	151.52	4,161.60	4,073.89	87.71	47.449	
15,050.00	8,796.00	12,455.00	10,757.23	54.22	47.99	-123.80	-2,384.61	151.52	4,136.72	4,048.63	88.09	46.962	
15,099.11	8,796.00	12,455.00	10,757.23	54.08	47.99	-125.50	-2,384.61	151.52	4,109.90	4,021.45	88.45	46.464	
15,100.00	8,796.00	12,455.00	10,757.23	54.08	47.99	-125.51	-2,384.61	151.52	4,109.39	4,020.93	88.46	46.455	
15,200.00	8,796.00	12,455.00	10,757.23	53.80	47.99	-126.33	-2,384.61	151.52	4,052.12	3,962.92	89.20	45.427	
15,263.03	8,796.00	12,455.00	10,757.23	53.63	47.99	-126.86	-2,384.61	151.52	4,015.68	3,926.01	89.67	44.783	
15,300.00	8,796.00	12,455.00	10,757.23	53.53	47.99	-126.86	-2,384.61	151.52	3,994.34	3,904.40	89.95	44.408	
15,400.00	8,796.00	12,455.00	10,757.23	53.27	47.99	-126.86	-2,384.61	151.52	3,937.80	3,847.09	90.71	43.410	
15,500.00	8,796.00	12,455.00	10,757.23	53.02	47.99	-126.86	-2,384.61	151.52	3,883.01	3,791.51	91.49	42.440	
15,600.00	8,796.00	12,455.00	10,757.23	52.78	47.99	-126.86	-2,384.61	151.52	3,830.04	3,737.75	92.29	41.499	
15,700.00	8,796.00	12,455.00	10,757.23	52.54	47.99	-126.86	-2,384.61	151.52	3,778.98	3,685.88	93.10	40.589	
15,800.00	8,796.00	12,455.00	10,757.23	52.31	47.99	-126.86	-2,384.61	151.52	3,729.91	3,635.98	93.93	39.710	
15,900.00	8,796.00	12,455.00	10,757.23	52.09	47.99	-126.86	-2,384.61	151.52	3,682.89	3,588.13	94.76	38.863	
16,000.00	8,796.00	12,455.00	10,757.23	51.88	47.99	-126.86	-2,384.61	151.52	3,638.02	3,542.41	95.61	38.052	
16,100.00	8,796.00	12,455.00	10,757.23	51.68	47.99	-126.86	-2,384.61	151.52	3,595.37	3,498.91	96.45	37.275	
16,200.00	8,796.00	12,455.00	10,757.23	51.49	47.99	-126.86	-2,384.61	151.52	3,555.02	3,457.71	97.30	36.536	
16,300.00	8,796.00	12,455.00	10,757.23	51.30	47.99	-126.86	-2,384.61	151.52	3,517.05	3,418.90	98.15	35.835	
16,400.00	8,796.00	12,455.00	10,757.23	51.13	47.99	-126.86	-2,384.61	151.52	3,481.54	3,382.55	98.99	35.172	
16,500.00	8,796.00	12,455.00	10,757.23	50.96	47.99	-126.86	-2,384.61	151.52	3,448.56	3,348.75	99.82	34.549	
16,600.00	8,796.00	12,455.00	10,757.23	50.80	47.99	-126.86	-2,384.61	151.52	3,418.20	3,317.57	100.63	33.968	
16,700.00	8,796.00	12,455.00	10,757.23	50.65	47.99	-126.86	-2,384.61	151.52	3,390.51	3,289.08	101.43	33.428	
16,800.00	8,796.00	12,455.00	10,757.23	50.51	47.99	-126.86	-2,384.61	151.52	3,365.57	3,263.36	102.20	32.930	
16,900.00	8,796.00	12,455.00	10,757.23	50.38	47.99	-126.86	-2,384.61	151.52	3,343.43	3,240.48	102.95	32.476	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - OH - OH Svy

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,000.00	8,796.00	12,455.00	10,757.23	50.26	47.99	-126.86	-2,384.61	151.52	3,324.16	3,220.49	103.67	32.065	
17,100.00	8,796.00	12,455.00	10,757.23	50.15	47.99	-126.86	-2,384.61	151.52	3,307.79	3,203.44	104.35	31.698	
17,200.00	8,796.00	12,455.00	10,757.23	50.05	47.99	-126.86	-2,384.61	151.52	3,294.39	3,189.39	105.00	31.376	
17,300.00	8,796.00	12,455.00	10,757.23	49.97	47.99	-126.86	-2,384.61	151.52	3,283.97	3,178.37	105.60	31.098	
17,400.00	8,796.00	12,455.00	10,757.23	49.89	47.99	-126.86	-2,384.61	151.52	3,276.58	3,170.42	106.16	30.864	
17,500.00	8,796.00	12,455.00	10,757.23	49.82	47.99	-126.86	-2,384.61	151.52	3,272.22	3,165.55	106.67	30.676	
17,600.00	8,796.00	8,815.92	8,813.42	49.76	30.67	-90.41	-396.83	161.86	3,266.79	3,195.75	71.04	45.984	
17,700.00	8,796.00	8,811.91	8,809.41	49.72	30.66	-90.32	-396.67	161.96	3,207.16	3,135.72	71.44	44.895	
17,800.00	8,796.00	8,807.97	8,805.47	49.68	30.65	-90.23	-396.50	162.06	3,149.56	3,077.71	71.86	43.832	
17,900.00	8,796.00	8,804.09	8,801.60	49.66	30.63	-90.15	-396.34	162.15	3,094.13	3,021.83	72.30	42.798	
18,000.00	8,796.00	8,800.28	8,797.79	49.65	30.62	-90.06	-396.19	162.24	3,040.96	2,968.20	72.76	41.796	
18,100.00	8,796.00	8,796.54	8,794.05	49.65	30.61	-89.98	-396.04	162.32	2,990.19	2,916.95	73.24	40.828	
18,200.00	8,796.00	8,792.85	8,790.37	49.66	30.59	-89.90	-395.89	162.41	2,941.94	2,868.20	73.74	39.898	
18,300.00	8,796.00	8,789.23	8,786.75	49.69	30.58	-89.82	-395.75	162.49	2,896.33	2,822.08	74.25	39.006	
18,400.00	8,796.00	8,785.67	8,783.19	49.73	30.57	-89.74	-395.61	162.57	2,853.50	2,778.72	74.78	38.158	
18,500.00	8,796.00	8,782.16	8,779.69	49.78	30.56	-89.66	-395.47	162.64	2,813.56	2,738.24	75.32	37.354	
18,600.00	8,796.00	8,778.72	8,776.25	49.84	30.54	-89.59	-395.34	162.72	2,776.65	2,700.78	75.87	36.597	
18,700.00	8,796.00	8,775.33	8,772.86	49.92	30.53	-89.51	-395.21	162.79	2,742.89	2,666.47	76.42	35.891	
18,800.00	8,796.00	8,771.99	8,769.53	50.01	30.52	-89.44	-395.09	162.86	2,712.39	2,635.41	76.98	35.237	
18,900.00	8,796.00	8,768.70	8,766.24	50.12	30.51	-89.37	-394.96	162.93	2,685.26	2,607.74	77.52	34.638	
19,000.00	8,796.00	8,765.47	8,763.01	50.24	30.50	-89.29	-394.84	163.00	2,661.61	2,583.55	78.06	34.095	
19,100.00	8,796.00	8,762.29	8,759.83	50.37	30.49	-89.22	-394.72	163.06	2,641.54	2,562.94	78.59	33.611	
19,200.00	8,796.00	8,759.15	8,756.70	50.51	30.47	-89.16	-394.61	163.12	2,625.11	2,546.01	79.10	33.187	
19,300.00	8,796.00	8,756.07	8,753.62	50.67	30.46	-89.09	-394.50	163.19	2,612.41	2,532.82	79.59	32.824	
19,400.00	8,796.00	8,753.03	8,750.58	50.85	30.45	-89.02	-394.39	163.25	2,603.49	2,523.44	80.05	32.523	
19,500.00	8,796.00	8,746.00	8,743.56	51.03	30.43	-88.87	-394.13	163.38	2,598.39	2,517.96	80.43	32.305	
19,582.99	8,796.00	8,746.00	8,743.56	51.20	30.43	-88.87	-394.13	163.38	2,597.06	2,516.27	80.80	32.143	
19,600.00	8,796.00	8,746.00	8,743.56	51.23	30.43	-88.87	-394.13	163.38	2,597.12	2,516.25	80.87	32.116	
19,634.41	8,796.00	8,746.10	8,743.66	51.30	30.43	-88.87	-394.14	163.38	2,597.57	2,516.57	81.01	32.066	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - ST01 - ST01 Svy

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	156.78	-332.21	142.55	361.50				
100.00	100.00	96.74	96.73	0.28	0.16	156.96	-332.95	141.59	361.81	361.38	0.43	841.571	ES
200.00	200.00	195.18	195.11	0.63	0.42	157.48	-335.06	138.91	362.73	361.68	1.05	345.164	
300.00	300.00	295.69	295.52	0.99	0.78	158.19	-337.66	135.13	363.71	361.93	1.78	204.898	
400.00	400.00	395.14	394.83	1.35	1.15	158.98	-340.44	130.84	364.74	362.24	2.50	146.070	
500.00	500.00	494.35	493.91	1.71	1.51	159.76	-343.39	126.64	366.03	362.81	3.22	113.743	
600.00	599.98	593.41	592.84	2.07	1.87	160.57	-346.42	122.68	369.20	365.26	3.94	93.724	
700.00	699.84	692.66	691.96	2.43	2.24	161.53	-349.63	118.63	375.88	371.22	4.66	80.613	
750.00	749.68	742.12	741.38	2.61	2.42	161.95	-351.03	117.31	380.54	375.52	5.02	75.747	
800.00	799.49	791.45	790.69	2.79	2.59	162.28	-352.24	116.73	385.68	380.30	5.38	71.729	
900.00	899.11	891.31	890.53	3.15	2.94	162.69	-354.19	117.23	395.99	389.91	6.08	65.153	
1,000.00	998.73	991.34	990.55	3.51	3.28	163.00	-355.84	118.11	406.15	399.37	6.78	59.912	
1,001.27	1,000.00	992.62	991.82	3.51	3.28	163.01	-355.86	118.12	406.28	399.49	6.79	59.852	
1,100.00	1,098.41	1,092.63	1,091.82	3.87	3.63	140.50	-357.27	118.88	414.77	407.29	7.49	55.408	
1,200.00	1,198.13	1,192.68	1,191.86	4.22	3.98	114.61	-358.34	119.75	420.53	412.34	8.19	51.374	
1,300.00	1,297.78	1,290.46	1,289.62	4.58	4.32	94.62	-359.63	120.68	424.02	415.14	8.88	47.770	
1,400.00	1,397.23	1,390.75	1,389.90	4.93	4.67	82.44	-361.01	121.79	425.21	415.64	9.58	44.404	
1,500.00	1,496.35	1,490.98	1,490.12	5.28	5.02	75.61	-362.18	122.71	423.93	413.65	10.28	41.254	
1,600.00	1,595.04	1,590.23	1,589.37	5.63	5.37	72.06	-363.23	123.40	420.49	409.51	10.98	38.311	
1,700.00	1,693.16	1,689.00	1,688.13	5.98	5.72	70.66	-364.22	123.82	415.24	403.57	11.68	35.559	
1,792.67	1,783.48	1,780.34	1,779.47	6.31	6.05	70.76	-365.00	123.95	409.04	396.70	12.33	33.170	
1,800.00	1,790.60	1,787.57	1,786.69	6.34	6.07	70.99	-365.05	123.96	408.50	396.12	12.38	32.986	
1,900.00	1,887.72	1,885.86	1,884.98	6.70	6.42	74.14	-365.59	124.14	401.74	388.65	13.09	30.688	
2,000.00	1,984.84	1,984.68	1,983.79	7.06	6.77	77.30	-365.87	124.97	395.98	382.18	13.80	28.695	
2,100.00	2,081.96	2,079.78	2,078.87	7.43	7.10	80.23	-366.02	127.14	391.24	376.74	14.50	26.989	
2,200.00	2,179.08	2,174.91	2,173.96	7.80	7.43	83.13	-367.31	129.79	388.73	373.53	15.20	25.577	
2,300.00	2,276.20	2,272.62	2,271.57	8.17	7.77	85.96	-368.93	133.71	387.39	371.47	15.92	24.340	
2,400.00	2,373.32	2,372.57	2,371.39	8.55	8.12	88.76	-370.71	138.43	386.99	370.35	16.64	23.250	
2,462.27	2,433.80	2,435.08	2,433.87	8.78	8.34	90.66	-371.20	140.42	386.87	369.77	17.10	22.623	
2,500.00	2,470.44	2,472.39	2,471.17	8.93	8.47	91.87	-371.29	141.22	386.94	369.56	17.37	22.270	
2,600.00	2,567.56	2,571.54	2,570.30	9.30	8.81	95.15	-371.10	142.78	387.73	369.63	18.10	21.420	
2,700.00	2,664.68	2,668.51	2,667.26	9.68	9.15	98.26	-370.87	144.91	389.53	370.71	18.82	20.695	
2,800.00	2,761.80	2,765.98	2,764.71	10.07	9.49	101.36	-370.86	146.94	392.78	373.24	19.55	20.093	
2,900.00	2,858.92	2,863.98	2,862.68	10.45	9.83	104.41	-370.77	149.05	397.12	376.84	20.28	19.585	
3,000.00	2,956.04	2,962.27	2,960.95	10.83	10.18	107.38	-370.62	151.32	402.46	381.46	21.01	19.159	
3,100.00	3,053.16	3,059.65	3,058.30	11.22	10.52	110.25	-370.38	153.56	408.82	387.08	21.73	18.810	
3,200.00	3,150.29	3,157.03	3,155.65	11.60	10.86	113.04	-370.16	155.72	416.28	393.82	22.46	18.534	
3,300.00	3,247.41	3,255.91	3,254.51	11.99	11.21	115.76	-369.87	157.99	424.63	401.44	23.19	18.308	
3,400.00	3,344.53	3,353.13	3,351.69	12.38	11.55	118.30	-369.69	160.52	433.78	409.86	23.92	18.134	
3,500.00	3,441.65	3,450.18	3,448.71	12.76	11.90	120.74	-369.54	162.91	443.90	419.25	24.65	18.011	
3,600.00	3,538.77	3,546.17	3,544.69	13.15	12.23	123.08	-369.38	164.93	455.07	429.71	25.37	17.941	
3,700.00	3,635.89	3,644.55	3,643.05	13.54	12.58	125.36	-369.19	166.89	467.07	440.98	26.10	17.898	
3,800.00	3,733.01	3,740.95	3,739.42	13.93	12.92	127.49	-369.04	168.80	479.82	453.00	26.82	17.892	
3,900.00	3,830.13	3,836.71	3,835.17	14.32	13.26	129.50	-369.07	170.41	493.56	466.02	27.53	17.925	
4,000.00	3,927.25	3,934.69	3,933.14	14.71	13.61	131.43	-369.31	172.13	507.95	479.69	28.26	17.971	
4,100.00	4,024.37	4,030.72	4,029.15	15.10	13.95	133.22	-369.53	173.63	523.04	494.05	28.98	18.046	
4,200.00	4,121.49	4,127.98	4,126.40	15.49	14.30	134.94	-369.82	175.04	538.75	509.04	29.71	18.133	
4,300.00	4,218.61	4,224.57	4,222.98	15.88	14.65	136.53	-370.28	176.45	555.00	524.57	30.43	18.237	
4,400.00	4,315.73	4,320.39	4,318.79	16.27	14.99	138.00	-371.02	177.70	571.92	540.77	31.15	18.359	
4,500.00	4,412.85	4,417.44	4,415.83	16.66	15.34	139.42	-371.74	178.77	589.37	557.49	31.88	18.488	
4,600.00	4,509.97	4,514.79	4,513.18	17.05	15.69	140.76	-372.49	179.85	607.18	574.57	32.61	18.621	
4,700.00	4,607.09	4,611.80	4,610.18	17.45	16.03	142.02	-373.27	180.88	625.34	592.00	33.33	18.760	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - ST01 - ST01 Svy

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,704.21	4,708.23	4,706.59	17.84	16.38	143.21	-374.02	181.82	643.86	609.80	34.06	18.906	
4,900.00	4,801.33	4,803.68	4,802.04	18.23	16.72	144.32	-374.84	182.51	662.89	628.12	34.77	19.065	
5,000.00	4,898.45	4,899.94	4,898.29	18.62	17.06	145.37	-375.86	183.04	682.39	646.89	35.49	19.227	
5,100.00	4,995.57	4,997.15	4,995.50	19.02	17.41	146.38	-376.85	183.49	702.18	665.96	36.22	19.387	
5,200.00	5,092.69	5,095.87	5,094.21	19.41	17.76	147.33	-377.93	184.03	722.10	685.14	36.96	19.539	
5,300.00	5,189.81	5,194.28	5,192.61	19.80	18.11	148.23	-378.99	184.85	741.93	704.23	37.69	19.683	
5,400.00	5,286.93	5,291.90	5,290.22	20.20	18.46	149.07	-380.14	185.66	761.96	723.53	38.43	19.829	
5,500.00	5,384.05	5,389.22	5,387.53	20.59	18.81	149.85	-381.50	186.66	782.01	742.85	39.16	19.971	
5,600.00	5,481.17	5,483.43	5,481.72	20.98	19.15	150.55	-382.94	187.42	802.42	762.55	39.87	20.128	
5,700.00	5,578.29	5,577.68	5,575.96	21.38	19.48	151.24	-384.40	187.74	823.40	782.83	40.57	20.295	
5,800.00	5,675.41	5,673.93	5,672.19	21.77	19.83	151.89	-386.08	187.88	844.72	803.43	41.29	20.457	
5,900.00	5,772.53	5,770.60	5,768.85	22.16	20.17	152.51	-387.80	187.98	866.20	824.18	42.02	20.616	
6,000.00	5,869.65	5,865.43	5,863.66	22.56	20.50	153.09	-389.52	187.94	887.91	845.18	42.72	20.782	
6,100.00	5,966.77	5,961.46	5,959.68	22.95	20.84	153.63	-391.51	187.66	909.99	866.55	43.44	20.947	
6,200.00	6,063.89	6,061.24	6,059.43	23.35	21.20	154.17	-393.65	187.48	932.05	887.86	44.19	21.092	
6,300.00	6,161.01	6,160.97	6,159.15	23.74	21.55	154.71	-395.17	187.53	953.86	908.92	44.94	21.226	
6,400.00	6,258.13	6,257.76	6,255.93	24.14	21.89	155.23	-396.37	187.66	975.63	929.97	45.66	21.366	
6,500.00	6,355.25	6,355.76	6,353.92	24.53	22.24	155.74	-397.58	187.74	997.53	951.13	46.40	21.499	
6,600.00	6,452.37	6,464.67	6,462.83	24.92	22.62	156.31	-398.17	188.30	1,018.98	971.77	47.21	21.585	
6,700.00	6,549.49	6,568.11	6,566.25	25.32	22.98	156.92	-397.11	189.68	1,039.52	991.55	47.97	21.671	
6,800.00	6,646.61	6,667.71	6,665.83	25.71	23.32	157.51	-395.55	191.32	1,059.79	1,011.08	48.70	21.761	
6,900.00	6,743.73	6,760.00	6,758.09	26.11	23.64	158.05	-393.79	192.60	1,080.36	1,030.97	49.38	21.877	
7,000.00	6,840.85	6,855.00	6,853.07	26.50	23.97	158.57	-392.30	193.63	1,101.36	1,051.27	50.09	21.990	
7,100.00	6,937.97	6,931.42	6,929.49	26.90	24.22	158.96	-391.58	193.77	1,123.39	1,072.74	50.65	22.179	
7,200.00	7,035.09	7,016.73	7,014.79	27.29	24.51	159.36	-391.13	192.63	1,146.98	1,095.71	51.27	22.371	
7,300.00	7,132.21	7,119.40	7,117.45	27.69	24.85	159.81	-390.93	190.95	1,170.97	1,118.95	52.02	22.509	
7,400.00	7,229.33	7,217.55	7,215.59	28.08	25.18	160.25	-390.25	189.88	1,194.45	1,141.71	52.74	22.649	
7,500.00	7,326.45	7,306.63	7,304.66	28.48	25.48	160.63	-389.54	188.63	1,218.29	1,164.90	53.39	22.820	
7,600.00	7,423.57	7,401.84	7,399.85	28.87	25.80	161.03	-388.77	186.83	1,242.65	1,188.57	54.08	22.977	
7,700.00	7,520.69	7,494.85	7,492.84	29.27	26.11	161.42	-387.88	185.00	1,267.15	1,212.39	54.76	23.140	
7,700.27	7,520.96	7,495.09	7,493.07	29.27	26.11	161.42	-387.88	185.00	1,267.21	1,212.45	54.76	23.140	
7,800.00	7,618.21	7,580.30	7,578.25	29.66	26.39	161.89	-386.99	182.76	1,290.72	1,235.34	55.38	23.309	
7,900.00	7,716.43	7,667.92	7,665.81	30.04	26.69	162.30	-386.06	179.72	1,311.93	1,255.93	55.99	23.429	
8,000.00	7,815.25	7,760.96	7,758.77	30.41	27.00	162.64	-385.28	175.93	1,330.50	1,273.85	56.65	23.487	
8,100.00	7,914.55	7,874.20	7,871.92	30.78	27.39	162.90	-385.45	171.58	1,345.64	1,288.18	57.46	23.418	
8,200.00	8,014.19	8,007.60	8,005.30	31.13	27.84	163.08	-385.84	169.13	1,355.46	1,297.05	58.41	23.205	
8,300.00	8,114.07	8,122.03	8,119.72	31.47	28.24	163.17	-386.06	169.30	1,359.95	1,300.74	59.21	22.968	
8,389.47	8,203.52	8,208.67	8,206.37	31.77	28.55	-91.69	-386.28	169.69	1,360.90	1,301.10	59.80	22.758	
8,400.00	8,214.05	8,218.39	8,216.08	31.80	28.59	88.57	-386.31	169.72	1,360.87	1,301.00	59.86	22.733	
8,450.00	8,263.94	8,264.40	8,262.10	31.95	28.75	88.69	-386.46	169.76	1,360.75	1,300.58	60.17	22.616	
8,485.64	8,299.25	8,296.07	8,293.77	32.07	28.86	88.87	-386.59	169.70	1,360.71	1,300.34	60.38	22.537	
8,500.00	8,313.37	8,308.60	8,306.29	32.11	28.90	88.96	-386.65	169.66	1,360.72	1,300.26	60.46	22.506	
8,550.00	8,361.96	8,351.71	8,349.41	32.27	29.05	89.36	-386.90	169.38	1,360.88	1,300.14	60.74	22.404	
8,600.00	8,409.35	8,395.93	8,393.62	32.42	29.21	89.90	-387.23	168.94	1,361.30	1,300.26	61.04	22.303	
8,650.00	8,455.17	8,440.18	8,437.86	32.57	29.36	90.56	-387.62	168.43	1,362.01	1,300.68	61.33	22.207	
8,700.00	8,499.07	8,482.68	8,480.36	32.71	29.51	91.28	-388.07	167.89	1,363.16	1,301.55	61.62	22.123	
8,750.00	8,540.73	8,523.13	8,520.80	32.85	29.65	92.02	-388.55	167.33	1,364.93	1,303.04	61.89	22.053	
8,800.00	8,579.82	8,561.22	8,558.88	32.99	29.78	92.74	-389.06	166.76	1,367.51	1,305.35	62.16	22.001	
8,850.00	8,616.04	8,596.80	8,594.46	33.11	29.90	93.39	-389.69	166.17	1,371.09	1,308.68	62.40	21.971	
8,900.00	8,649.13	8,629.79	8,627.43	33.24	30.02	93.92	-390.45	165.59	1,375.84	1,313.20	62.64	21.964	
8,950.00	8,678.82	8,660.23	8,657.85	33.36	30.13	94.31	-391.32	165.01	1,381.95	1,319.09	62.86	21.984	
9,000.00	8,704.90	8,688.13	8,685.73	33.47	30.22	94.51	-392.19	164.48	1,389.53	1,326.46	63.07	22.032	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - ST01 - ST01 Svy

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,050.00	8,727.16	8,712.34	8,709.93	33.58	30.31	94.47	-392.98	164.02	1,398.72	1,335.46	63.25	22.114	
9,100.00	8,745.44	8,732.67	8,730.24	33.70	30.38	94.13	-393.67	163.63	1,409.60	1,346.19	63.40	22.232	
9,139.47	8,756.95	8,745.84	8,743.40	33.78	30.43	93.64	-394.13	163.38	1,419.42	1,355.91	63.51	22.351	
9,200.00	8,771.07	8,760.98	8,758.53	33.92	30.48	93.36	-394.68	163.09	1,436.51	1,372.89	63.62	22.579	
9,300.00	8,787.52	8,779.89	8,777.42	34.14	30.55	92.36	-395.39	162.69	1,469.88	1,406.12	63.76	23.053	
9,400.00	8,795.32	8,790.93	8,788.45	34.37	30.59	90.67	-395.82	162.45	1,509.30	1,445.46	63.83	23.644	
9,439.47	8,796.00	8,793.06	8,790.58	34.46	30.59	89.81	-395.90	162.40	1,526.40	1,462.56	63.84	23.908	
9,500.00	8,796.00	8,795.35	8,792.87	34.60	30.60	89.91	-395.99	162.35	1,554.22	1,490.37	63.85	24.342	
9,600.00	8,796.00	8,799.20	8,796.71	34.85	30.62	90.07	-396.15	162.26	1,604.11	1,540.26	63.85	25.122	
9,700.00	8,796.00	8,803.12	8,800.63	35.10	30.63	90.24	-396.31	162.17	1,658.53	1,594.68	63.85	25.974	
9,800.00	8,796.00	8,807.11	8,804.61	35.37	30.64	90.40	-396.47	162.08	1,717.05	1,653.20	63.85	26.892	
9,900.00	8,796.00	8,811.16	8,808.66	35.65	30.66	90.57	-396.63	161.98	1,779.25	1,715.41	63.85	27.868	
10,000.00	8,796.00	8,815.30	8,812.79	35.94	30.67	90.74	-396.81	161.88	1,844.78	1,780.93	63.84	28.896	
10,100.00	8,796.00	8,819.50	8,816.99	36.24	30.69	90.92	-396.98	161.77	1,913.27	1,849.44	63.84	29.970	
10,200.00	8,796.00	8,823.79	8,821.27	36.55	30.70	91.10	-397.16	161.67	1,984.44	1,920.60	63.84	31.086	
10,300.00	8,796.00	8,828.07	8,825.55	36.88	30.72	91.28	-397.35	161.56	2,058.00	1,994.16	63.84	32.239	
10,400.00	8,796.00	8,832.35	8,829.82	37.22	30.73	91.46	-397.53	161.45	2,133.70	2,069.86	63.84	33.424	
10,500.00	8,796.00	8,836.63	8,834.10	37.57	30.75	91.64	-397.71	161.35	2,211.32	2,147.48	63.84	34.638	
10,600.00	8,796.00	8,840.91	8,838.38	37.93	30.76	91.81	-397.89	161.24	2,290.67	2,226.83	63.85	35.878	
10,700.00	8,796.00	8,845.20	8,842.66	38.29	30.78	91.99	-398.07	161.13	2,371.58	2,307.73	63.85	37.141	
10,800.00	8,796.00	12,700.48	10,758.30	38.68	48.75	143.60	-2,614.74	92.52	2,445.85	2,375.81	70.05	34.918	
10,900.00	8,796.00	12,805.48	10,756.59	39.07	49.73	143.79	-2,719.09	104.04	2,438.27	2,367.10	71.18	34.256	
11,000.00	8,796.00	12,864.00	10,754.82	39.47	50.29	143.86	-2,777.34	109.28	2,431.10	2,359.05	72.05	33.740	
11,100.00	8,796.00	12,959.00	10,752.97	39.88	51.21	143.96	-2,872.05	116.48	2,425.32	2,352.11	73.21	33.129	
11,200.00	8,796.00	13,029.73	10,752.16	40.30	51.92	144.03	-2,942.63	120.88	2,420.77	2,346.55	74.22	32.617	
11,300.00	8,796.00	13,135.63	10,749.94	40.73	52.99	144.10	-3,048.35	126.63	2,416.14	2,340.62	75.52	31.992	
11,400.00	8,796.00	13,199.85	10,748.76	41.16	53.65	144.14	-3,112.49	129.82	2,412.05	2,335.52	76.53	31.518	
11,500.00	8,796.00	13,262.15	10,748.11	41.61	54.30	144.16	-3,174.75	131.72	2,409.65	2,332.11	77.54	31.076	
11,600.00	8,796.00	13,338.00	10,748.40	42.07	55.09	144.20	-3,250.57	133.93	2,408.50	2,329.83	78.66	30.617	
11,700.00	8,796.00	13,507.48	10,748.93	42.53	56.92	144.38	-3,419.74	143.61	2,405.18	2,324.66	80.52	29.870	
11,800.00	8,796.00	13,575.51	10,747.69	43.00	57.66	144.40	-3,487.73	145.77	2,402.16	2,320.54	81.63	29.429	
11,900.00	8,796.00	13,649.65	10,747.37	43.48	58.48	144.42	-3,561.85	147.43	2,400.69	2,317.90	82.79	28.997	
12,000.00	8,796.00	13,754.86	10,745.77	43.97	59.65	144.41	-3,667.04	148.29	2,399.23	2,314.95	84.28	28.468	
12,100.00	8,796.00	13,831.88	10,744.16	44.46	60.51	144.37	-3,744.04	147.73	2,398.24	2,312.70	85.54	28.038	
12,125.96	8,796.00	13,847.90	10,743.79	44.59	60.69	144.35	-3,760.06	147.34	2,398.18	2,312.35	85.83	27.941	
12,200.00	8,796.00	13,908.00	10,742.23	44.97	61.36	144.27	-3,820.07	144.63	2,398.69	2,311.86	86.83	27.625	
12,300.00	8,796.00	13,954.79	10,741.07	45.47	61.89	144.19	-3,866.74	141.48	2,400.62	2,312.78	87.84	27.330	
12,400.00	8,796.00	14,033.28	10,739.73	45.99	62.78	144.04	-3,944.96	135.14	2,404.16	2,314.96	89.20	26.951	
12,500.00	8,796.00	14,200.09	10,735.92	46.51	64.69	143.76	-4,111.33	123.70	2,406.71	2,315.13	91.57	26.282	
12,600.00	8,796.00	14,409.05	10,731.47	47.04	67.15	143.66	-4,320.18	123.03	2,405.49	2,311.27	94.22	25.530	
12,700.00	8,796.00	14,533.01	10,728.72	47.58	68.65	143.73	-4,443.96	129.05	2,401.01	2,305.07	95.94	25.027	
12,800.00	8,796.00	14,613.02	10,727.80	48.12	69.62	143.80	-4,523.81	133.95	2,396.75	2,299.52	97.23	24.650	
12,900.00	8,796.00	14,688.84	10,727.05	48.66	70.55	143.85	-4,599.55	137.29	2,393.58	2,295.07	98.51	24.298	
13,000.00	8,796.00	14,762.00	10,725.47	49.22	71.44	143.85	-4,672.68	138.61	2,391.14	2,291.33	99.80	23.959	
13,100.00	8,796.00	14,828.52	10,724.08	49.77	72.26	143.82	-4,739.19	138.44	2,389.98	2,288.93	101.05	23.652	
13,111.59	8,796.00	14,835.08	10,724.00	49.84	72.34	143.82	-4,745.74	138.37	2,389.97	2,288.79	101.18	23.621	
13,200.00	8,796.00	14,924.86	10,723.08	50.34	73.44	143.77	-4,835.51	137.01	2,390.26	2,287.64	102.62	23.292	
13,209.11	8,796.00	14,937.31	10,722.86	50.39	73.60	143.76	-4,847.96	136.79	2,390.25	2,287.44	102.81	23.250	
13,250.00	8,796.00	15,078.28	10,720.67	50.62	75.36	143.69	-4,988.79	140.68	2,389.64	2,285.17	104.48	22.872	
13,254.39	8,796.00	15,082.46	10,720.61	50.65	75.41	143.69	-4,992.96	140.94	2,389.63	2,285.09	104.55	22.857	
13,300.00	8,796.00	15,125.76	10,720.04	50.92	75.96	143.71	-5,036.18	143.52	2,390.66	2,285.36	105.30	22.702	
13,350.00	8,796.00	15,172.84	10,719.35	51.22	76.55	143.84	-5,083.18	146.15	2,394.15	2,287.95	106.20	22.544	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - ST01 - ST01 Svy

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	8,796.00	15,219.15	10,718.61	51.52	77.14	144.09	-5,129.43	148.57	2,400.11	2,292.95	107.16	22.398	
13,450.00	8,796.00	15,256.28	10,718.01	51.83	77.60	144.51	-5,166.50	150.39	2,408.58	2,300.49	108.09	22.283	
13,500.00	8,796.00	15,290.74	10,717.70	52.14	78.04	145.12	-5,200.92	152.05	2,419.73	2,310.68	109.05	22.189	
13,550.00	8,796.00	15,325.00	10,717.45	52.45	78.48	145.90	-5,235.14	153.69	2,433.37	2,323.30	110.06	22.109	
13,600.00	8,796.00	15,325.00	10,717.45	52.75	78.48	147.26	-5,235.14	153.69	2,449.87	2,339.11	110.77	22.118	
13,650.00	8,796.00	15,325.00	10,717.45	53.04	78.48	148.94	-5,235.14	153.69	2,469.32	2,357.84	111.49	22.149	
13,700.00	8,796.00	15,325.00	10,717.45	53.33	78.48	150.95	-5,235.14	153.69	2,491.52	2,379.30	112.22	22.202	
13,750.00	8,796.00	15,325.00	10,717.45	53.61	78.48	153.30	-5,235.14	153.69	2,516.25	2,403.28	112.97	22.274	
13,800.00	8,796.00	15,325.00	10,717.45	53.87	78.48	156.01	-5,235.14	153.69	2,543.27	2,429.56	113.72	22.365	
13,850.00	8,796.00	15,325.00	10,717.45	54.12	78.48	159.10	-5,235.14	153.69	2,572.34	2,457.87	114.47	22.472	
13,900.00	8,796.00	15,325.00	10,717.45	54.35	78.48	162.57	-5,235.14	153.69	2,603.19	2,487.97	115.22	22.594	
13,950.00	8,796.00	15,325.00	10,717.45	54.56	78.48	166.39	-5,235.14	153.69	2,635.56	2,519.60	115.96	22.728	
14,000.00	8,796.00	15,325.00	10,717.45	54.76	78.48	170.55	-5,235.14	153.69	2,669.19	2,552.49	116.69	22.873	
14,050.00	8,796.00	15,325.00	10,717.45	54.93	78.48	175.00	-5,235.14	153.69	2,703.80	2,586.38	117.42	23.027	
14,100.00	8,796.00	15,325.00	10,717.45	55.08	78.48	179.67	-5,235.14	153.69	2,739.14	2,621.01	118.13	23.188	
14,150.00	8,796.00	15,325.00	10,717.45	55.20	78.48	-175.54	-5,235.14	153.69	2,774.95	2,656.13	118.82	23.355	
14,200.00	8,796.00	15,325.00	10,717.45	55.31	78.48	-170.72	-5,235.14	153.69	2,810.97	2,691.48	119.49	23.525	
14,250.00	8,796.00	15,325.00	10,717.45	55.39	78.48	-165.97	-5,235.14	153.69	2,846.96	2,726.82	120.14	23.697	
14,300.00	8,796.00	15,325.00	10,717.45	55.45	78.48	-161.39	-5,235.14	153.69	2,882.70	2,761.92	120.77	23.869	
14,350.00	8,796.00	15,325.00	10,717.45	55.48	78.48	-157.05	-5,235.14	153.69	2,917.94	2,796.57	121.37	24.041	
14,400.00	8,796.00	15,325.00	10,717.45	55.49	78.48	-153.00	-5,235.14	153.69	2,952.49	2,830.54	121.95	24.211	
14,450.00	8,796.00	15,325.00	10,717.45	55.48	78.48	-149.27	-5,235.14	153.69	2,986.13	2,863.64	122.50	24.377	
14,500.00	8,796.00	15,325.00	10,717.45	55.45	78.48	-145.89	-5,235.14	153.69	3,018.69	2,895.67	123.02	24.539	
14,550.00	8,796.00	15,325.00	10,717.45	55.40	78.48	-142.84	-5,235.14	153.69	3,049.98	2,926.47	123.51	24.695	
14,600.00	8,796.00	15,325.00	10,717.45	55.33	78.48	-140.12	-5,235.14	153.69	3,079.83	2,955.87	123.96	24.845	
14,650.00	8,796.00	15,325.00	10,717.45	55.25	78.48	-137.70	-5,235.14	153.69	3,108.09	2,983.71	124.38	24.988	
14,700.00	8,796.00	15,325.00	10,717.45	55.15	78.48	-135.57	-5,235.14	153.69	3,134.62	3,009.85	124.77	25.123	
14,750.00	8,796.00	15,325.00	10,717.45	55.04	78.48	-133.71	-5,235.14	153.69	3,159.29	3,034.16	125.13	25.249	
14,800.00	8,796.00	15,325.00	10,717.45	54.92	78.48	-132.09	-5,235.14	153.69	3,181.97	3,056.53	125.44	25.366	
14,850.00	8,796.00	15,325.00	10,717.45	54.79	78.48	-130.69	-5,235.14	153.69	3,202.57	3,076.84	125.73	25.473	
14,900.00	8,796.00	15,287.71	10,717.72	54.65	78.00	-129.32	-5,197.90	151.91	3,220.76	3,095.25	125.51	25.662	
14,950.00	8,796.00	15,254.66	10,718.03	54.51	77.58	-128.23	-5,164.89	150.32	3,236.11	3,110.79	125.32	25.822	
15,000.00	8,796.00	15,218.90	10,718.61	54.37	77.13	-127.38	-5,129.17	148.56	3,248.64	3,123.56	125.08	25.972	
15,050.00	8,796.00	15,176.46	10,719.30	54.22	76.60	-126.74	-5,086.80	146.35	3,258.13	3,133.39	124.74	26.119	
15,099.11	8,796.00	15,134.19	10,719.93	54.08	76.06	-126.33	-5,044.59	144.00	3,264.42	3,140.04	124.39	26.244	
15,100.00	8,796.00	15,133.42	10,719.94	54.08	76.05	-126.33	-5,043.83	143.96	3,264.51	3,140.13	124.38	26.246	
15,200.00	8,796.00	14,857.00	10,723.82	53.80	72.61	-126.16	-4,767.66	138.09	3,269.52	3,148.29	121.23	26.969	
15,263.03	8,796.00	14,810.47	10,724.35	53.63	72.04	-126.16	-4,721.14	138.57	3,269.83	3,148.95	120.89	27.049	
15,300.00	8,796.00	14,792.12	10,724.70	53.53	71.81	-126.17	-4,702.79	138.64	3,270.02	3,149.22	120.80	27.070	
15,400.00	8,796.00	14,737.33	10,726.13	53.27	71.14	-126.19	-4,648.02	138.39	3,271.54	3,151.05	120.48	27.153	
15,500.00	8,796.00	14,667.00	10,727.30	53.02	70.28	-126.19	-4,577.73	136.50	3,274.28	3,154.30	119.98	27.290	
15,600.00	8,796.00	14,615.96	10,727.77	52.78	69.66	-126.17	-4,526.75	134.11	3,278.19	3,158.48	119.71	27.383	
15,700.00	8,796.00	14,545.63	10,728.53	52.54	68.80	-126.14	-4,456.55	129.82	3,283.34	3,164.12	119.22	27.540	
15,800.00	8,796.00	14,103.15	10,738.37	52.31	63.57	-126.30	-4,014.60	129.71	3,286.85	3,172.62	114.23	28.775	
15,900.00	8,796.00	13,979.33	10,740.59	52.09	62.17	-126.44	-3,891.20	139.61	3,281.01	3,167.85	113.16	28.995	
16,000.00	8,796.00	13,908.00	10,742.23	51.88	61.36	-126.52	-3,820.07	144.63	3,276.20	3,163.41	112.79	29.048	
16,100.00	8,796.00	13,908.00	10,742.23	51.68	61.36	-126.52	-3,820.07	144.63	3,272.92	3,159.64	113.29	28.891	
16,200.00	8,796.00	13,813.00	10,744.57	51.49	60.30	-126.59	-3,725.17	148.00	3,271.19	3,158.56	112.63	29.043	
16,252.05	8,796.00	13,813.00	10,744.57	51.39	60.30	-126.59	-3,725.17	148.00	3,270.78	3,157.91	112.87	28.978	
16,300.00	8,796.00	13,782.00	10,745.21	51.30	59.95	-126.60	-3,694.18	148.22	3,270.93	3,158.20	112.73	29.015	
16,400.00	8,796.00	13,706.89	10,746.72	51.13	59.11	-126.62	-3,619.08	148.12	3,271.87	3,159.54	112.32	29.129	
16,500.00	8,796.00	13,623.00	10,747.43	50.96	58.18	-126.63	-3,535.21	146.92	3,273.22	3,161.38	111.84	29.268	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - ST01 - ST01 Svy

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	8,796.00	13,559.20	10,747.91	50.80	57.48	-126.62	-3,471.43	145.32	3,275.41	3,163.84	111.57	29.357	
16,700.00	8,796.00	13,501.19	10,749.03	50.65	56.85	-126.62	-3,413.47	143.34	3,278.94	3,167.58	111.36	29.444	
16,800.00	8,796.00	13,379.72	10,748.80	50.51	55.54	-126.54	-3,292.21	136.22	3,283.28	3,172.75	110.53	29.704	
16,900.00	8,796.00	13,244.00	10,748.24	50.38	54.11	-126.49	-3,156.61	131.25	3,285.42	3,175.83	109.59	29.978	
17,000.00	8,796.00	13,193.61	10,748.85	50.26	53.59	-126.48	-3,106.25	129.57	3,288.54	3,179.03	109.51	30.031	
17,100.00	8,796.00	13,143.13	10,749.79	50.15	53.06	-126.47	-3,055.84	127.05	3,293.25	3,183.85	109.41	30.101	
17,200.00	8,796.00	13,036.65	10,752.04	50.05	51.99	-126.45	-2,949.54	121.26	3,298.53	3,189.72	108.81	30.313	
17,300.00	8,796.00	12,959.00	10,752.97	49.97	51.21	-126.42	-2,872.05	116.48	3,303.92	3,195.42	108.49	30.452	
17,400.00	8,796.00	12,902.29	10,753.75	49.89	50.66	-126.39	-2,815.49	112.36	3,310.33	3,201.97	108.36	30.549	
17,500.00	8,796.00	12,847.33	10,755.36	49.82	50.13	-126.37	-2,760.74	107.86	3,318.26	3,210.03	108.24	30.657	
17,600.00	8,796.00	8,815.92	8,813.42	49.76	30.67	-90.41	-396.83	161.86	3,266.79	3,195.75	71.04	45.984	
17,700.00	8,796.00	8,811.91	8,809.41	49.72	30.66	-90.32	-396.67	161.96	3,207.16	3,135.72	71.44	44.895	
17,800.00	8,796.00	8,807.97	8,805.47	49.68	30.65	-90.23	-396.50	162.06	3,149.56	3,077.71	71.86	43.832	
17,900.00	8,796.00	8,804.09	8,801.60	49.66	30.63	-90.15	-396.34	162.15	3,094.13	3,021.83	72.30	42.798	
18,000.00	8,796.00	8,800.28	8,797.79	49.65	30.62	-90.06	-396.19	162.24	3,040.96	2,968.20	72.76	41.796	
18,100.00	8,796.00	8,796.54	8,794.05	49.65	30.61	-89.98	-396.04	162.32	2,990.19	2,916.95	73.24	40.828	
18,200.00	8,796.00	8,792.85	8,790.37	49.66	30.59	-89.90	-395.89	162.41	2,941.94	2,868.20	73.74	39.898	
18,300.00	8,796.00	8,789.23	8,786.75	49.69	30.58	-89.82	-395.75	162.49	2,896.33	2,822.08	74.25	39.006	
18,400.00	8,796.00	8,785.67	8,783.19	49.73	30.57	-89.74	-395.61	162.57	2,853.50	2,778.72	74.78	38.158	
18,500.00	8,796.00	8,782.16	8,779.69	49.78	30.56	-89.66	-395.47	162.64	2,813.56	2,738.24	75.32	37.354	
18,600.00	8,796.00	8,778.72	8,776.25	49.84	30.54	-89.59	-395.34	162.72	2,776.65	2,700.78	75.87	36.597	
18,700.00	8,796.00	8,775.33	8,772.86	49.92	30.53	-89.51	-395.21	162.79	2,742.89	2,666.47	76.42	35.891	
18,800.00	8,796.00	8,771.99	8,769.53	50.01	30.52	-89.44	-395.09	162.86	2,712.39	2,635.41	76.98	35.237	
18,900.00	8,796.00	8,768.70	8,766.24	50.12	30.51	-89.37	-394.96	162.93	2,685.26	2,607.74	77.52	34.638	
19,000.00	8,796.00	8,765.47	8,763.01	50.24	30.50	-89.29	-394.84	163.00	2,661.61	2,583.55	78.06	34.095	
19,100.00	8,796.00	8,762.29	8,759.83	50.37	30.49	-89.22	-394.72	163.06	2,641.54	2,562.94	78.59	33.611	
19,200.00	8,796.00	8,759.15	8,756.70	50.51	30.47	-89.16	-394.61	163.12	2,625.11	2,546.01	79.10	33.187	
19,300.00	8,796.00	8,756.07	8,753.62	50.67	30.46	-89.09	-394.50	163.19	2,612.41	2,532.82	79.59	32.824	
19,400.00	8,796.00	8,753.03	8,750.58	50.85	30.45	-89.02	-394.39	163.25	2,603.49	2,523.44	80.05	32.523	
19,500.00	8,796.00	8,746.00	8,743.56	51.03	30.43	-88.87	-394.13	163.38	2,598.39	2,517.96	80.43	32.305	
19,582.99	8,796.00	8,746.00	8,743.56	51.20	30.43	-88.87	-394.13	163.38	2,597.06	2,516.27	80.80	32.143	
19,600.00	8,796.00	8,746.00	8,743.56	51.23	30.43	-88.87	-394.13	163.38	2,597.12	2,516.25	80.87	32.116	
19,634.41	8,796.00	8,746.10	8,743.66	51.30	30.43	-88.87	-394.14	163.38	2,597.57	2,516.57	81.01	32.066	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Offset Well Error: 0.50 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.71	89.28	57.81	4,616.72	4,617.35				
100.00	100.00	53.94	53.94	0.28	0.71	89.28	57.78	4,616.70	4,617.06	4,616.07	0.99	4,677.125	
200.00	200.00	184.53	184.53	0.63	0.83	89.28	57.68	4,616.01	4,616.50	4,615.03	1.47	3,150.201	
300.00	300.00	343.81	343.78	0.99	1.23	89.28	58.22	4,613.30	4,614.62	4,612.41	2.21	2,083.667	
400.00	400.00	443.42	443.37	1.35	1.53	89.27	58.80	4,611.28	4,612.60	4,609.73	2.87	1,606.392	
500.00	500.00	528.57	528.50	1.71	1.80	89.27	59.06	4,609.60	4,610.64	4,607.14	3.50	1,317.577	
600.00	599.98	600.00	599.92	2.07	2.03	89.30	59.65	4,608.67	4,609.30	4,605.21	4.09	1,127.118	
700.00	699.84	666.56	666.48	2.43	2.25	89.35	60.54	4,608.25	4,608.59	4,603.92	4.67	987.596	
750.00	749.68	704.86	704.77	2.61	2.37	89.38	61.16	4,608.16	4,608.43	4,603.46	4.97	926.796	
800.00	799.49	758.29	758.19	2.79	2.55	89.43	62.12	4,608.07	4,608.31	4,602.98	5.33	864.542	
900.00	899.11	867.43	867.31	3.15	2.92	89.52	64.39	4,607.74	4,607.95	4,601.89	6.06	760.636	
1,000.00	998.73	992.45	992.29	3.51	3.35	89.62	67.42	4,606.92	4,607.26	4,600.41	6.85	673.082	
1,001.27	1,000.00	994.12	993.96	3.51	3.35	89.62	67.47	4,606.90	4,607.24	4,600.39	6.86	672.068	
1,100.00	1,098.41	1,143.39	1,143.15	3.87	3.87	66.81	71.78	4,604.60	4,604.24	4,596.52	7.73	596.003	
1,200.00	1,198.13	1,266.69	1,266.39	4.22	4.30	40.27	73.66	4,601.66	4,597.45	4,588.94	8.51	540.433	
1,300.00	1,297.78	1,377.00	1,376.67	4.58	4.68	19.26	73.58	4,598.69	4,587.43	4,578.19	9.24	496.471	
1,400.00	1,397.23	1,495.38	1,494.98	4.93	5.09	5.68	72.56	4,595.14	4,574.21	4,564.21	10.00	457.493	
1,500.00	1,496.35	1,597.85	1,597.39	5.28	5.44	-2.98	71.20	4,591.78	4,557.81	4,547.11	10.70	425.918	
1,600.00	1,595.04	1,700.00	1,699.47	5.63	5.80	-8.82	69.59	4,588.24	4,538.34	4,526.93	11.40	398.007	
1,700.00	1,693.16	1,780.72	1,780.13	5.98	6.08	-13.01	68.15	4,585.55	4,516.17	4,504.14	12.03	375.367	
1,792.67	1,783.48	1,839.67	1,839.05	6.31	6.29	-15.97	66.99	4,583.95	4,493.66	4,481.10	12.56	357.749	
1,800.00	1,790.60	1,844.07	1,843.45	6.34	6.30	-15.97	66.90	4,583.84	4,491.81	4,479.20	12.60	356.371	
1,900.00	1,887.72	1,900.00	1,899.35	6.70	6.50	-16.00	65.76	4,582.78	4,467.03	4,453.88	13.15	339.771	
2,000.00	1,984.84	1,964.06	1,963.40	7.06	6.72	-16.04	64.46	4,582.10	4,443.04	4,429.32	13.72	323.780	
2,100.00	2,081.96	2,030.76	2,030.08	7.43	6.95	-16.08	63.17	4,581.95	4,419.85	4,405.54	14.31	308.846	
2,200.00	2,179.08	2,100.00	2,099.31	7.80	7.19	-16.13	61.94	4,582.14	4,397.18	4,382.27	14.91	294.888	
2,300.00	2,276.20	2,162.25	2,161.55	8.17	7.40	-16.17	60.85	4,582.75	4,375.23	4,359.74	15.49	282.437	
2,400.00	2,373.32	2,200.00	2,199.29	8.55	7.53	-16.19	60.16	4,583.43	4,354.27	4,338.28	15.99	272.309	
2,500.00	2,470.44	2,275.87	2,275.12	8.93	7.79	-16.24	58.79	4,585.52	4,334.09	4,317.47	16.62	260.756	
2,600.00	2,567.56	2,336.21	2,335.40	9.30	8.00	-16.28	57.71	4,587.83	4,314.89	4,297.69	17.20	250.842	
2,700.00	2,664.68	2,400.00	2,399.10	9.68	8.23	-16.32	56.23	4,590.81	4,296.51	4,278.72	17.80	241.433	
2,800.00	2,761.80	2,627.37	2,626.27	10.07	9.03	-16.46	51.56	4,598.80	4,276.97	4,258.02	18.95	225.735	
2,900.00	2,858.92	2,741.98	2,740.86	10.45	9.42	-16.55	50.08	4,600.80	4,255.75	4,236.03	19.72	215.858	
3,000.00	2,956.04	2,838.26	2,837.12	10.83	9.76	-16.62	49.13	4,602.37	4,234.43	4,214.01	20.42	207.319	
3,100.00	3,053.16	2,940.98	2,939.82	11.22	10.12	-16.71	48.14	4,604.06	4,213.14	4,191.99	21.16	199.144	
3,200.00	3,150.29	3,059.18	3,058.00	11.60	10.53	-16.80	47.12	4,605.57	4,191.51	4,169.57	21.94	191.055	
3,300.00	3,247.41	3,162.32	3,161.14	11.99	10.89	-16.89	46.46	4,606.49	4,169.50	4,146.83	22.67	183.896	
3,400.00	3,344.53	3,257.56	3,256.38	12.38	11.22	-16.98	45.86	4,607.36	4,147.53	4,124.15	23.38	177.370	
3,500.00	3,441.65	3,361.60	3,360.40	12.76	11.58	-17.07	44.87	4,608.30	4,125.56	4,101.44	24.12	171.025	
3,600.00	3,538.77	3,481.32	3,480.11	13.15	11.99	-17.17	43.40	4,608.96	4,103.24	4,078.33	24.91	164.717	
3,700.00	3,635.89	3,584.43	3,583.21	13.54	12.35	-17.26	42.34	4,609.09	4,080.52	4,054.87	25.65	159.099	
3,800.00	3,733.01	3,681.44	3,680.23	13.93	12.69	-17.34	41.43	4,609.18	4,057.78	4,031.41	26.37	153.900	
3,900.00	3,830.13	3,786.22	3,785.00	14.32	13.06	-17.44	40.42	4,609.20	4,034.98	4,007.87	27.11	148.842	
4,000.00	3,927.25	3,885.33	3,884.10	14.71	13.40	-17.53	39.41	4,609.08	4,012.04	3,984.20	27.84	144.136	
4,100.00	4,024.37	3,990.05	3,988.82	15.10	13.77	-17.62	38.42	4,608.84	3,989.02	3,960.44	28.58	139.583	
4,200.00	4,121.49	4,091.71	4,090.47	15.49	14.12	-17.72	37.52	4,608.44	3,965.84	3,936.53	29.31	135.296	
4,300.00	4,218.61	4,195.48	4,194.23	15.88	14.48	-17.82	36.59	4,607.90	3,942.54	3,912.49	30.05	131.187	
4,400.00	4,315.73	4,301.55	4,300.30	16.27	14.85	-17.92	35.66	4,607.12	3,919.06	3,888.26	30.80	127.241	
4,500.00	4,412.85	4,396.35	4,395.10	16.66	15.18	-18.01	34.66	4,606.35	3,895.50	3,863.98	31.52	123.605	
4,600.00	4,509.97	4,494.66	4,493.39	17.05	15.53	-18.10	33.36	4,605.58	3,871.96	3,839.72	32.24	120.093	
4,700.00	4,607.09	4,592.99	4,591.70	17.45	15.87	-18.19	31.89	4,604.77	3,848.40	3,815.43	32.97	116.733	
4,800.00	4,704.21	4,686.93	4,685.63	17.84	16.20	-18.28	30.40	4,604.03	3,824.86	3,791.18	33.68	113.558	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Offset Well Error: 0.50 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,801.33	4,776.25	4,774.94	18.23	16.51	-18.36	28.81	4,603.45	3,801.47	3,767.08	34.38	110.558	
5,000.00	4,898.45	4,872.83	4,871.49	18.62	16.85	-18.44	26.70	4,602.98	3,778.22	3,743.12	35.11	107.620	
5,100.00	4,995.57	4,969.28	4,967.92	19.02	17.19	-18.51	24.34	4,602.50	3,754.96	3,719.13	35.83	104.800	
5,200.00	5,092.69	5,065.16	5,063.76	19.41	17.52	-18.59	21.92	4,602.07	3,731.74	3,695.19	36.55	102.096	
5,300.00	5,189.81	5,157.39	5,155.96	19.80	17.84	-18.66	19.58	4,601.71	3,708.59	3,671.33	37.26	99.524	
5,400.00	5,286.93	5,251.80	5,250.35	20.20	18.17	-18.75	17.57	4,601.47	3,685.60	3,647.61	37.98	97.036	
5,500.00	5,384.05	5,349.45	5,347.98	20.59	18.51	-18.83	15.47	4,601.22	3,662.61	3,623.90	38.71	94.619	
5,600.00	5,481.17	5,452.75	5,451.25	20.98	18.88	-18.93	13.26	4,600.90	3,639.58	3,600.13	39.45	92.256	
5,700.00	5,578.29	5,550.80	5,549.28	21.38	19.22	-19.02	11.08	4,600.40	3,616.36	3,576.18	40.18	90.005	
5,800.00	5,675.41	5,645.49	5,643.94	21.77	19.55	-19.10	8.86	4,600.06	3,593.28	3,552.38	40.90	87.856	
5,900.00	5,772.53	5,744.04	5,742.46	22.16	19.89	-19.19	6.54	4,599.65	3,570.16	3,528.53	41.63	85.759	
6,000.00	5,869.65	5,833.02	5,831.42	22.56	20.21	-19.27	4.52	4,599.33	3,547.11	3,504.77	42.34	83.784	
6,100.00	5,966.77	5,916.37	5,914.75	22.95	20.50	-19.36	3.02	4,599.34	3,524.45	3,481.42	43.03	81.909	
6,200.00	6,063.89	6,014.29	6,012.66	23.35	20.84	-19.46	1.32	4,599.50	3,501.95	3,458.19	43.76	80.029	
6,300.00	6,161.01	6,111.17	6,109.53	23.74	21.18	-19.56	-0.28	4,599.64	3,479.46	3,434.97	44.49	78.215	
6,400.00	6,258.13	6,207.63	6,205.98	24.14	21.52	-19.67	-1.80	4,599.80	3,456.99	3,411.78	45.21	76.462	
6,500.00	6,355.25	6,304.89	6,303.22	24.53	21.86	-19.77	-3.32	4,599.97	3,434.55	3,388.61	45.94	74.761	
6,600.00	6,452.37	6,400.91	6,399.23	24.92	22.19	-19.88	-4.85	4,600.15	3,412.14	3,365.48	46.67	73.118	
6,700.00	6,549.49	6,545.03	6,543.34	25.32	22.70	-20.06	-6.00	4,599.36	3,389.08	3,341.57	47.50	71.345	
6,800.00	6,646.61	6,773.19	6,771.33	25.71	23.49	-20.43	-4.70	4,591.38	3,363.03	3,314.54	48.49	69.358	
6,900.00	6,743.73	6,842.13	6,840.16	26.11	23.73	-20.56	-3.49	4,587.82	3,335.82	3,286.65	49.16	67.852	
7,000.00	6,840.85	6,900.00	6,897.98	26.50	23.94	-20.66	-2.56	4,585.56	3,309.76	3,259.94	49.82	66.438	
7,100.00	6,937.97	6,984.09	6,982.02	26.90	24.23	-20.82	-1.07	4,582.91	3,284.48	3,233.96	50.52	65.013	
7,200.00	7,035.09	8,760.00	8,272.23	27.29	29.82	-8.55	-692.27	4,282.81	3,240.92	3,189.86	51.06	63.471	
7,300.00	7,132.21	8,760.00	8,272.23	27.69	29.82	-8.55	-692.27	4,282.81	3,181.67	3,129.75	51.92	61.283	
7,400.00	7,229.33	8,760.00	8,272.23	28.08	29.82	-8.55	-692.27	4,282.81	3,124.49	3,071.72	52.78	59.202	
7,500.00	7,326.45	8,770.60	8,272.90	28.48	29.89	-8.31	-702.71	4,281.12	3,069.47	3,015.76	53.70	57.154	
7,600.00	7,423.57	8,774.05	8,273.12	28.87	29.92	-8.24	-706.11	4,280.59	3,016.76	2,962.18	54.59	55.267	
7,700.00	7,520.69	8,777.56	8,273.35	29.27	29.94	-8.16	-709.58	4,280.05	2,966.48	2,911.02	55.46	53.489	
7,700.27	7,520.96	8,777.57	8,273.35	29.27	29.94	-8.16	-709.58	4,280.05	2,966.35	2,910.89	55.46	53.485	
7,800.00	7,618.21	8,781.09	8,273.59	29.66	29.97	-7.94	-713.06	4,279.51	2,920.28	2,863.96	56.32	51.848	
7,900.00	7,716.43	8,792.00	8,274.32	30.04	30.04	-7.58	-723.82	4,277.89	2,879.99	2,822.77	57.22	50.328	
8,000.00	7,815.25	8,792.00	8,274.32	30.41	30.04	-7.49	-723.82	4,277.89	2,845.85	2,787.82	58.03	49.043	
8,100.00	7,914.55	8,792.00	8,274.32	30.78	30.04	-7.41	-723.82	4,277.89	2,818.18	2,759.38	58.79	47.932	
8,200.00	8,014.19	8,792.00	8,274.32	31.13	30.04	-7.36	-723.82	4,277.89	2,797.19	2,737.67	59.52	46.999	
8,300.00	8,114.07	8,792.00	8,274.32	31.47	30.04	-7.32	-723.82	4,277.89	2,783.07	2,722.89	60.18	46.245	
8,389.47	8,203.52	8,792.00	8,274.32	31.77	30.04	97.83	-723.82	4,277.89	2,776.36	2,715.64	60.72	45.727	
8,400.00	8,214.05	8,792.00	8,274.32	31.80	30.04	-81.97	-723.82	4,277.89	2,775.91	2,715.13	60.77	45.675	
8,450.00	8,263.94	8,792.00	8,274.32	31.95	30.04	-82.16	-723.82	4,277.89	2,773.94	2,712.90	61.05	45.440	
8,500.00	8,313.37	8,792.00	8,274.32	32.11	30.04	-82.33	-723.82	4,277.89	2,772.28	2,710.98	61.30	45.223	
8,550.00	8,361.96	8,792.00	8,274.32	32.27	30.04	-82.46	-723.82	4,277.89	2,770.94	2,709.40	61.54	45.026	
8,600.00	8,409.35	8,792.00	8,274.32	32.42	30.04	-82.56	-723.82	4,277.89	2,769.92	2,708.16	61.76	44.848	
8,650.00	8,455.17	8,808.18	8,275.27	32.57	30.15	-82.34	-739.82	4,275.75	2,768.97	2,706.89	62.08	44.600	
8,700.00	8,499.07	8,824.00	8,275.91	32.71	30.26	-82.11	-755.54	4,274.08	2,768.60	2,706.22	62.39	44.378	
8,750.00	8,540.73	8,824.00	8,275.91	32.85	30.26	-82.14	-755.54	4,274.08	2,768.27	2,705.72	62.56	44.252	
8,778.57	8,563.40	8,824.00	8,275.91	32.93	30.26	-82.15	-755.54	4,274.08	2,768.22	2,705.58	62.65	44.188	
8,800.00	8,579.82	8,824.00	8,275.91	32.99	30.26	-82.15	-755.54	4,274.08	2,768.25	2,705.54	62.71	44.142	
8,850.00	8,616.04	8,837.16	8,276.27	33.11	30.36	-81.93	-768.65	4,272.90	2,768.47	2,705.51	62.95	43.977	
8,900.00	8,649.13	8,856.00	8,276.58	33.24	30.49	-81.65	-787.42	4,271.32	2,768.76	2,705.54	63.22	43.794	
8,950.00	8,678.82	8,951.00	8,276.52	33.36	31.20	-80.50	-881.98	4,262.33	2,768.34	2,704.25	64.10	43.191	
9,000.00	8,704.90	9,123.95	8,277.30	33.47	32.68	-78.81	-1,053.46	4,240.41	2,766.12	2,700.37	65.75	42.072	
9,050.00	8,727.16	9,187.05	8,280.39	33.58	33.26	-78.65	-1,115.78	4,231.03	2,762.10	2,695.65	66.46	41.563	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,745.44	9,215.54	8,281.84	33.70	33.54	-78.90	-1,143.92	4,226.83	2,757.48	2,690.64	66.83	41.260	
9,139.47	8,756.95	9,234.48	8,282.71	33.78	33.72	-79.18	-1,162.65	4,224.17	2,753.57	2,686.48	67.09	41.044	
9,200.00	8,771.07	9,260.00	8,283.77	33.92	33.97	-79.37	-1,187.92	4,220.78	2,747.47	2,680.02	67.44	40.737	
9,300.00	8,787.52	9,324.00	8,285.89	34.14	34.60	-79.66	-1,251.41	4,212.93	2,737.32	2,669.05	68.27	40.097	
9,400.00	8,795.32	9,404.05	8,288.03	34.37	35.42	-80.06	-1,330.92	4,203.94	2,726.72	2,657.44	69.28	39.359	
9,439.47	8,796.00	9,435.88	8,288.84	34.46	35.76	-80.27	-1,362.55	4,200.54	2,722.33	2,652.65	69.68	39.067	
9,500.00	8,796.00	9,477.46	8,289.82	34.60	36.20	-80.27	-1,403.90	4,196.25	2,715.69	2,645.45	70.24	38.664	
9,600.00	8,796.00	9,666.00	8,294.58	34.85	38.29	-80.30	-1,591.23	4,175.64	2,704.58	2,632.03	72.56	37.275	
9,700.00	8,796.00	9,748.97	8,296.98	35.10	39.26	-80.31	-1,673.45	4,164.77	2,690.80	2,617.06	73.74	36.490	
9,800.00	8,796.00	9,824.16	8,298.95	35.37	40.15	-80.32	-1,748.07	4,155.70	2,678.02	2,603.16	74.87	35.770	
9,900.00	8,796.00	9,908.53	8,300.55	35.65	41.18	-80.31	-1,831.86	4,146.01	2,665.94	2,589.81	76.14	35.014	
10,000.00	8,796.00	9,995.44	8,301.36	35.94	42.25	-80.29	-1,918.22	4,136.23	2,654.27	2,576.79	77.48	34.259	
10,100.00	8,796.00	10,077.40	8,301.29	36.24	43.28	-80.26	-1,999.71	4,127.42	2,643.25	2,564.47	78.78	33.550	
10,200.00	8,796.00	10,289.98	8,300.19	36.55	46.03	-80.14	-2,210.74	4,102.07	2,632.00	2,550.21	81.79	32.181	
10,300.00	8,796.00	10,400.24	8,300.38	36.88	47.51	-80.08	-2,319.76	4,085.56	2,616.78	2,533.24	83.54	31.323	
10,400.00	8,796.00	10,484.02	8,301.29	37.22	48.64	-80.05	-2,402.61	4,073.17	2,601.61	2,516.61	84.99	30.609	
10,500.00	8,796.00	10,532.00	8,302.95	37.57	49.30	-80.06	-2,450.10	4,066.61	2,587.44	2,501.43	86.00	30.085	
10,600.00	8,796.00	10,596.00	8,305.24	37.93	50.17	-80.08	-2,513.63	4,059.26	2,575.13	2,487.89	87.24	29.519	
10,700.00	8,796.00	10,622.93	8,305.84	38.29	50.54	-80.08	-2,540.45	4,056.85	2,565.14	2,477.16	87.98	29.156	
10,800.00	8,796.00	10,660.00	8,306.02	38.68	51.05	-80.07	-2,577.42	4,054.24	2,557.65	2,468.80	88.85	28.785	
10,900.00	8,796.00	10,724.00	8,305.07	39.07	51.92	-80.04	-2,641.33	4,050.89	2,552.23	2,462.13	90.10	28.325	
11,000.00	8,796.00	10,951.21	8,302.48	39.47	55.09	-79.92	-2,867.95	4,035.88	2,546.29	2,452.62	93.67	27.184	
11,100.00	8,796.00	11,026.07	8,302.87	39.88	56.15	-79.90	-2,942.51	4,029.09	2,536.85	2,441.71	95.14	26.664	
11,200.00	8,796.00	11,197.95	8,301.80	40.30	58.62	-79.81	-3,113.59	4,012.75	2,527.62	2,429.66	97.96	25.802	
11,300.00	8,796.00	11,307.19	8,302.04	40.73	60.20	-79.76	-3,222.04	3,999.64	2,515.30	2,415.35	99.95	25.165	
11,400.00	8,796.00	11,435.34	8,301.16	41.16	62.08	-79.67	-3,349.25	3,984.18	2,503.27	2,401.06	102.21	24.492	
11,500.00	8,796.00	11,604.64	8,300.61	41.61	64.59	-79.56	-3,516.90	3,960.72	2,489.72	2,384.73	104.99	23.714	
11,600.00	8,796.00	11,709.68	8,301.92	42.07	66.16	-79.51	-3,620.54	3,943.69	2,473.10	2,366.13	106.97	23.119	
11,700.00	8,796.00	11,742.00	8,303.31	42.53	66.64	-79.52	-3,652.46	3,938.86	2,457.82	2,349.77	108.05	22.747	
11,800.00	8,796.00	11,806.00	8,306.33	43.00	67.60	-79.56	-3,715.93	3,931.29	2,444.90	2,335.37	109.53	22.322	
11,900.00	8,796.00	11,832.94	8,307.32	43.48	68.00	-79.57	-3,742.75	3,928.92	2,434.42	2,323.93	110.49	22.032	
12,000.00	8,796.00	11,891.81	8,308.31	43.97	68.88	-79.58	-3,801.43	3,924.43	2,426.11	2,314.23	111.88	21.685	
12,100.00	8,796.00	11,966.79	8,308.30	44.46	70.00	-79.55	-3,876.25	3,919.34	2,419.01	2,305.51	113.50	21.313	
12,200.00	8,796.00	12,042.86	8,307.65	44.97	71.14	-79.52	-3,952.18	3,914.89	2,412.97	2,297.83	115.14	20.957	
12,300.00	8,796.00	12,173.16	8,304.59	45.47	73.10	-79.41	-4,082.18	3,906.78	2,406.87	2,289.27	117.60	20.467	
12,400.00	8,796.00	12,399.86	8,299.43	45.99	76.54	-79.18	-4,307.67	3,884.89	2,397.31	2,275.94	121.37	19.752	
12,500.00	8,796.00	12,483.74	8,301.87	46.51	77.82	-79.20	-4,391.01	3,875.72	2,385.59	2,262.39	123.20	19.364	
12,600.00	8,796.00	12,581.82	8,303.21	47.04	79.33	-79.18	-4,488.50	3,865.04	2,374.21	2,248.99	125.22	18.961	
12,700.00	8,796.00	12,675.55	8,303.55	47.58	80.77	-79.14	-4,581.65	3,854.63	2,362.81	2,235.62	127.19	18.577	
12,800.00	8,796.00	12,758.00	8,304.77	48.12	82.04	-79.13	-4,663.64	3,845.99	2,351.84	2,222.81	129.02	18.228	
12,900.00	8,796.00	12,821.00	8,305.54	48.66	83.01	-79.12	-4,726.38	3,840.39	2,342.34	2,211.75	130.59	17.936	
13,000.00	8,796.00	12,885.00	8,305.82	49.22	84.00	-79.10	-4,790.21	3,835.76	2,334.53	2,202.37	132.16	17.664	
13,100.00	8,796.00	12,981.37	8,304.84	49.77	85.48	-79.04	-4,886.33	3,828.90	2,327.30	2,193.10	134.20	17.342	
13,200.00	8,796.00	13,078.59	8,306.01	50.34	86.99	-79.04	-4,983.32	3,822.39	2,320.06	2,183.80	136.26	17.027	
13,209.11	8,796.00	13,089.98	8,306.18	50.39	87.16	-79.04	-4,994.69	3,821.64	2,319.41	2,182.92	136.48	16.994	
13,250.00	8,796.00	13,140.94	8,306.56	50.62	87.95	-78.94	-5,045.52	3,818.07	2,315.03	2,177.53	137.49	16.838	
13,300.00	8,796.00	13,175.23	8,306.50	50.92	88.48	-78.75	-5,079.72	3,815.65	2,306.13	2,167.81	138.32	16.673	
13,350.00	8,796.00	13,210.88	8,306.19	51.22	89.04	-78.46	-5,115.30	3,813.30	2,293.62	2,154.47	139.15	16.483	
13,400.00	8,796.00	13,254.00	8,305.51	51.52	89.70	-78.04	-5,158.33	3,810.61	2,277.51	2,137.41	140.10	16.257	
13,450.00	8,796.00	13,294.04	8,304.74	51.83	90.32	-77.49	-5,198.28	3,808.16	2,257.78	2,116.79	140.98	16.014	
13,500.00	8,796.00	13,305.00	8,304.53	52.14	90.49	-76.92	-5,209.22	3,807.49	2,234.71	2,093.29	141.42	15.802	
13,550.00	8,796.00	13,305.00	8,304.53	52.45	90.49	-76.27	-5,209.22	3,807.49	2,209.01	2,067.36	141.65	15.595	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy — **Offset Site Error:** 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD — **Rule Assigned:** — **Offset Well Error:** 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	8,796.00	13,305.00	8,304.53	52.75	90.49	-75.49	-5,209.22	3,807.49	2,180.77	2,038.94	141.83	15.376	
13,650.00	8,796.00	13,305.00	8,304.53	53.04	90.49	-74.55	-5,209.22	3,807.49	2,150.09	2,008.12	141.97	15.145	
13,700.00	8,796.00	13,305.00	8,304.53	53.33	90.49	-73.41	-5,209.22	3,807.49	2,117.07	1,975.00	142.07	14.902	
13,750.00	8,796.00	13,305.00	8,304.53	53.61	90.49	-72.03	-5,209.22	3,807.49	2,081.83	1,939.70	142.13	14.647	
13,800.00	8,796.00	13,305.00	8,304.53	53.87	90.49	-70.34	-5,209.22	3,807.49	2,044.49	1,902.33	142.16	14.382	
13,850.00	8,796.00	13,305.00	8,304.53	54.12	90.49	-68.23	-5,209.22	3,807.49	2,005.18	1,863.03	142.16	14.106	
13,900.00	8,796.00	13,305.00	8,304.53	54.35	90.49	-65.58	-5,209.22	3,807.49	1,964.07	1,821.94	142.13	13.819	
13,950.00	8,796.00	13,305.00	8,304.53	54.56	90.49	-62.19	-5,209.22	3,807.49	1,921.32	1,779.24	142.08	13.523	
14,000.00	8,796.00	13,305.00	8,304.53	54.76	90.49	-57.76	-5,209.22	3,807.49	1,877.10	1,735.09	142.01	13.218	
14,050.00	8,796.00	13,305.00	8,304.53	54.93	90.49	-51.86	-5,209.22	3,807.49	1,831.63	1,689.69	141.93	12.905	
14,100.00	8,796.00	13,305.00	8,304.53	55.08	90.49	-43.91	-5,209.22	3,807.49	1,785.11	1,643.26	141.85	12.584	
14,150.00	8,796.00	13,305.00	8,304.53	55.20	90.49	-33.21	-5,209.22	3,807.49	1,737.79	1,596.02	141.77	12.258	
14,200.00	8,796.00	13,305.00	8,304.53	55.31	90.49	-19.36	-5,209.22	3,807.49	1,689.92	1,548.23	141.69	11.927	
14,250.00	8,796.00	13,305.00	8,304.53	55.39	90.49	-3.15	-5,209.22	3,807.49	1,641.80	1,500.17	141.63	11.592	
14,300.00	8,796.00	13,305.00	8,304.53	55.45	90.49	13.09	-5,209.22	3,807.49	1,593.73	1,452.15	141.58	11.257	
14,350.00	8,796.00	13,305.00	8,304.53	55.48	90.49	26.98	-5,209.22	3,807.49	1,546.04	1,404.50	141.54	10.923	
14,400.00	8,796.00	13,305.00	8,304.53	55.49	90.49	37.71	-5,209.22	3,807.49	1,499.13	1,357.60	141.53	10.593	
14,450.00	8,796.00	13,305.00	8,304.53	55.48	90.49	45.65	-5,209.22	3,807.49	1,453.37	1,311.84	141.53	10.269	
14,500.00	8,796.00	13,305.00	8,304.53	55.45	90.49	51.49	-5,209.22	3,807.49	1,409.21	1,267.67	141.54	9.956	
14,550.00	8,796.00	13,305.00	8,304.53	55.40	90.49	55.82	-5,209.22	3,807.49	1,367.11	1,225.55	141.56	9.658	
14,600.00	8,796.00	13,305.00	8,304.53	55.33	90.49	59.08	-5,209.22	3,807.49	1,327.55	1,185.98	141.56	9.378	
14,650.00	8,796.00	13,305.00	8,304.53	55.25	90.49	61.56	-5,209.22	3,807.49	1,291.04	1,149.50	141.54	9.121	
14,700.00	8,796.00	13,305.00	8,304.53	55.15	90.49	63.45	-5,209.22	3,807.49	1,258.11	1,116.64	141.47	8.893	
14,750.00	8,796.00	13,305.00	8,304.53	55.04	90.49	64.89	-5,209.22	3,807.49	1,229.27	1,087.94	141.33	8.698	
14,800.00	8,796.00	13,305.00	8,304.53	54.92	90.49	65.97	-5,209.22	3,807.49	1,205.01	1,063.93	141.08	8.541	
14,850.00	8,796.00	13,260.46	8,305.39	54.79	89.80	66.44	-5,164.77	3,810.21	1,184.94	1,044.65	140.28	8.447	
14,900.00	8,796.00	13,218.80	8,306.09	54.65	89.16	66.82	-5,123.20	3,812.80	1,168.47	1,028.93	139.53	8.374	
14,950.00	8,796.00	13,178.59	8,306.48	54.51	88.54	67.10	-5,083.07	3,815.42	1,155.87	1,017.06	138.81	8.327	
15,000.00	8,796.00	13,138.65	8,306.56	54.37	87.92	67.28	-5,043.23	3,818.24	1,147.34	1,009.23	138.11	8.307	SF
15,050.00	8,796.00	13,087.07	8,306.14	54.22	87.12	67.32	-4,991.78	3,821.83	1,142.70	1,005.39	137.31	8.322	
15,087.20	8,796.00	13,050.01	8,305.53	54.12	86.54	67.31	-4,954.81	3,824.25	1,141.65	1,004.91	136.75	8.349	CC, ES
15,099.11	8,796.00	13,038.35	8,305.36	54.08	86.36	67.29	-4,943.17	3,825.02	1,141.76	1,005.19	136.57	8.360	
15,100.00	8,796.00	13,037.48	8,305.35	54.08	86.35	67.29	-4,942.30	3,825.08	1,141.78	1,005.22	136.56	8.361	
15,200.00	8,796.00	12,930.43	8,305.43	53.80	84.70	67.34	-4,835.52	3,832.51	1,144.91	1,009.89	135.02	8.480	
15,263.03	8,796.00	12,873.54	8,305.84	53.63	83.82	67.41	-4,778.77	3,836.58	1,148.51	1,014.33	134.18	8.560	
15,300.00	8,796.00	12,841.12	8,305.74	53.53	83.32	67.45	-4,746.44	3,838.93	1,151.17	1,017.48	133.70	8.610	
15,400.00	8,796.00	12,770.94	8,304.93	53.27	82.24	67.53	-4,676.51	3,844.68	1,159.66	1,027.12	132.54	8.749	
15,500.00	8,796.00	12,680.98	8,303.62	53.02	80.86	67.65	-4,587.05	3,854.06	1,170.23	1,039.02	131.21	8.919	
15,600.00	8,796.00	12,583.05	8,303.22	52.78	79.35	67.84	-4,489.72	3,864.91	1,181.04	1,051.22	129.82	9.097	
15,700.00	8,796.00	12,487.65	8,301.95	52.54	77.88	67.98	-4,394.90	3,875.30	1,192.04	1,063.57	128.46	9.279	
15,800.00	8,796.00	12,397.48	8,299.36	52.31	76.50	68.05	-4,305.31	3,885.16	1,203.65	1,076.51	127.14	9.467	
15,900.00	8,796.00	12,233.14	8,302.23	52.09	74.00	68.49	-4,141.93	3,902.14	1,213.04	1,087.89	125.15	9.693	
16,000.00	8,796.00	12,118.55	8,306.34	51.88	72.27	68.82	-4,027.73	3,910.53	1,218.95	1,095.35	123.60	9.862	
16,100.00	8,796.00	12,017.60	8,307.90	51.68	70.76	69.00	-3,926.96	3,916.29	1,224.12	1,101.92	122.21	10.017	
16,200.00	8,796.00	11,933.00	8,308.42	51.49	69.50	69.11	-3,842.53	3,921.56	1,230.12	1,109.09	121.03	10.164	
16,300.00	8,796.00	11,854.54	8,307.86	51.30	68.32	69.19	-3,764.27	3,927.17	1,237.49	1,117.58	119.92	10.320	
16,400.00	8,796.00	11,806.00	8,306.33	51.13	67.60	69.19	-3,715.93	3,931.29	1,247.43	1,128.35	119.08	10.476	
16,500.00	8,796.00	11,742.00	8,303.31	50.96	66.64	69.19	-3,652.46	3,938.86	1,260.80	1,142.76	118.04	10.681	
16,600.00	8,796.00	11,655.28	8,300.68	50.80	65.35	69.31	-3,566.87	3,952.50	1,276.93	1,160.11	116.82	10.931	
16,700.00	8,796.00	11,509.59	8,300.90	50.65	63.18	69.68	-3,422.90	3,974.80	1,291.80	1,176.67	115.14	11.220	
16,800.00	8,796.00	11,404.12	8,301.21	50.51	61.62	69.90	-3,318.29	3,988.23	1,304.06	1,190.29	113.78	11.462	
16,900.00	8,796.00	11,298.00	8,302.05	50.38	60.07	70.13	-3,212.92	4,000.74	1,315.24	1,202.82	112.42	11.700	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,000.00	8,796.00	11,191.66	8,301.81	50.26	58.52	70.32	-3,107.35	4,013.47	1,327.03	1,215.95	111.07	11.948	
17,100.00	8,796.00	11,054.15	8,302.79	50.15	56.55	70.56	-2,970.48	4,026.72	1,336.13	1,226.73	109.40	12.213	
17,200.00	8,796.00	10,970.74	8,302.65	50.05	55.36	70.66	-2,887.40	4,034.06	1,344.90	1,236.57	108.34	12.414	
17,300.00	8,796.00	10,796.60	8,303.09	49.97	52.92	70.88	-2,713.82	4,047.65	1,353.35	1,247.13	106.22	12.741	
17,400.00	8,796.00	10,704.22	8,305.49	49.89	51.65	71.04	-2,621.57	4,051.83	1,357.22	1,252.11	105.10	12.913	
17,500.00	8,796.00	10,641.45	8,306.02	49.82	50.79	71.11	-2,558.91	4,055.44	1,362.90	1,258.52	104.38	13.057	
17,600.00	8,796.00	10,596.00	8,305.24	49.76	50.17	71.14	-2,513.63	4,059.26	1,371.97	1,268.15	103.82	13.214	
17,700.00	8,796.00	10,532.00	8,302.95	49.72	49.30	71.15	-2,450.10	4,066.61	1,384.41	1,281.36	103.04	13.435	
17,800.00	8,796.00	10,448.13	8,300.53	49.68	48.16	71.22	-2,367.10	4,078.36	1,398.95	1,296.88	102.07	13.706	
17,900.00	8,796.00	10,348.07	8,300.43	49.66	46.81	71.42	-2,268.19	4,093.45	1,413.69	1,312.77	100.93	14.007	
18,000.00	8,796.00	10,208.17	8,300.23	49.65	44.96	71.67	-2,129.70	4,113.22	1,427.79	1,328.36	99.43	14.359	
18,100.00	8,796.00	10,087.00	8,301.25	49.65	43.40	71.88	-2,009.25	4,126.42	1,438.16	1,340.02	98.14	14.654	
18,200.00	8,796.00	9,996.70	8,301.37	49.66	42.27	72.01	-1,919.47	4,136.09	1,448.73	1,351.52	97.21	14.904	
18,300.00	8,796.00	9,906.46	8,300.52	49.69	41.15	72.11	-1,829.81	4,146.25	1,460.13	1,363.82	96.31	15.161	
18,400.00	8,796.00	9,817.84	8,298.80	49.73	40.08	72.17	-1,741.79	4,156.45	1,472.09	1,376.62	95.46	15.420	
18,500.00	8,796.00	9,735.21	8,296.59	49.78	39.10	72.22	-1,659.81	4,166.52	1,484.93	1,390.22	94.71	15.679	
18,600.00	8,796.00	9,639.17	8,293.68	49.84	37.98	72.26	-1,564.64	4,179.12	1,498.75	1,404.87	93.87	15.965	
18,700.00	8,796.00	9,488.72	8,290.05	49.92	36.32	72.32	-1,415.11	4,195.14	1,509.68	1,417.03	92.66	16.293	
18,800.00	8,796.00	9,407.48	8,288.12	50.01	35.46	72.36	-1,334.33	4,203.57	1,520.68	1,428.62	92.05	16.519	
18,900.00	8,796.00	9,324.00	8,285.89	50.12	34.60	72.39	-1,251.41	4,212.93	1,532.59	1,441.13	91.46	16.756	
19,000.00	8,796.00	9,260.00	8,283.77	50.24	33.97	72.40	-1,187.92	4,220.78	1,545.89	1,454.84	91.04	16.980	
19,100.00	8,796.00	9,183.95	8,280.23	50.37	33.24	72.40	-1,112.72	4,231.49	1,561.18	1,470.60	90.57	17.236	
19,200.00	8,796.00	8,983.00	8,275.88	50.51	31.46	72.56	-913.80	4,258.98	1,576.44	1,487.06	89.38	17.638	
19,300.00	8,796.00	8,861.65	8,276.63	50.67	30.53	72.72	-793.05	4,270.87	1,586.12	1,497.36	88.75	17.871	
19,400.00	8,796.00	8,824.00	8,275.91	50.85	30.26	72.74	-755.54	4,274.08	1,596.01	1,507.33	88.69	17.996	
19,500.00	8,796.00	8,792.00	8,274.32	51.03	30.04	72.72	-723.82	4,277.89	1,610.02	1,521.40	88.62	18.167	
19,600.00	8,796.00	8,744.73	8,271.27	51.23	29.72	72.70	-677.25	4,285.42	1,627.78	1,539.30	88.49	18.396	
19,634.41	8,796.00	8,729.00	8,270.28	51.30	29.61	72.70	-661.84	4,288.42	1,634.75	1,546.32	88.43	18.486	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Hoss 2-11 W1AP Fed Com #2H - OH - Svy — **Offset Site Error:** 0.00 usft

Survey Program: 156-MWD OWSG Rev5 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	19,907.00	9,811.90	0.00	171.86	87.38	56.01	1,222.02	9,865.04				
100.00	100.00	19,907.00	9,811.90	0.28	171.86	87.38	56.01	1,222.02	9,765.82	9,670.87	94.94	102.859	
200.00	200.00	19,907.00	9,811.90	0.63	171.86	87.38	56.01	1,222.02	9,666.61	9,571.59	95.03	101.726	
300.00	300.00	19,907.00	9,811.90	0.99	171.86	87.38	56.01	1,222.02	9,567.42	9,472.31	95.12	100.587	
400.00	400.00	19,907.00	9,811.90	1.35	171.86	87.38	56.01	1,222.02	9,468.25	9,373.04	95.21	99.441	
500.00	500.00	19,907.00	9,811.90	1.71	171.86	87.38	56.01	1,222.02	9,369.10	9,273.78	95.32	98.290	
600.00	599.98	19,907.00	9,811.90	2.07	171.86	102.30	56.01	1,222.02	9,269.98	9,174.54	95.44	97.132	
700.00	699.84	19,907.00	9,811.90	2.43	171.86	115.59	56.01	1,222.02	9,170.97	9,075.41	95.56	95.967	
750.00	749.68	19,907.00	9,811.90	2.61	171.86	121.30	56.01	1,222.02	9,121.55	9,025.92	95.63	95.384	
800.00	799.49	19,907.00	9,811.90	2.79	171.86	121.30	56.01	1,222.02	9,072.18	8,976.47	95.70	94.797	
900.00	899.11	19,907.00	9,811.90	3.15	171.86	121.30	56.01	1,222.02	8,973.44	8,877.59	95.85	93.619	
1,000.00	998.73	19,907.00	9,811.90	3.51	171.86	121.30	56.01	1,222.02	8,874.73	8,778.72	96.01	92.436	
1,001.27	1,000.00	19,907.00	9,811.90	3.51	171.86	121.30	56.01	1,222.02	8,873.48	8,777.46	96.01	92.421	
1,100.00	1,098.41	19,907.00	9,811.90	3.87	171.86	98.11	56.01	1,222.02	8,775.80	8,679.63	96.17	91.253	
1,200.00	1,198.13	19,907.00	9,811.90	4.22	171.86	71.00	56.01	1,222.02	8,676.43	8,580.11	96.32	90.083	
1,300.00	1,297.78	19,907.00	9,811.90	4.58	171.86	48.85	56.01	1,222.02	8,576.74	8,480.30	96.44	88.933	
1,400.00	1,397.23	19,907.00	9,811.90	4.93	171.86	31.11	56.01	1,222.02	8,476.85	8,380.30	96.54	87.805	
1,500.00	1,496.35	19,907.00	9,811.90	5.28	171.86	-124.92	56.01	1,222.02	8,376.86	8,280.24	96.62	86.700	
1,600.00	1,595.04	19,907.00	9,811.90	5.63	171.86	-150.57	56.01	1,222.02	8,276.89	8,180.22	96.67	85.619	
1,700.00	1,693.16	19,907.00	9,811.90	5.98	171.86	-156.65	56.01	1,222.02	8,177.09	8,080.39	96.70	84.564	
1,792.67	1,783.48	19,907.00	9,811.90	6.31	171.86	-160.11	56.01	1,222.02	8,084.84	7,988.15	96.70	83.609	
1,800.00	1,790.60	19,907.00	9,811.90	6.34	171.86	-160.11	56.01	1,222.02	8,077.56	7,980.86	96.69	83.536	
1,900.00	1,887.72	19,907.00	9,811.90	6.70	171.86	-160.11	56.01	1,222.02	7,978.19	7,881.50	96.69	82.512	
2,000.00	1,984.84	19,907.00	9,811.90	7.06	171.86	-160.11	56.01	1,222.02	7,878.85	7,782.16	96.69	81.486	
2,100.00	2,081.96	19,907.00	9,811.90	7.43	171.86	-160.11	56.01	1,222.02	7,779.52	7,682.83	96.69	80.458	
2,200.00	2,179.08	19,907.00	9,811.90	7.80	171.86	-160.11	56.01	1,222.02	7,680.21	7,583.51	96.69	79.428	
2,300.00	2,276.20	19,907.00	9,811.90	8.17	171.86	-160.11	56.01	1,222.02	7,580.91	7,484.21	96.70	78.397	
2,400.00	2,373.32	19,907.00	9,811.90	8.55	171.86	-160.11	56.01	1,222.02	7,481.64	7,384.93	96.71	77.364	
2,500.00	2,470.44	19,907.00	9,811.90	8.93	171.86	-160.11	56.01	1,222.02	7,382.38	7,285.66	96.72	76.331	
2,600.00	2,567.56	19,907.00	9,811.90	9.30	171.86	-160.11	56.01	1,222.02	7,283.14	7,186.42	96.73	75.297	
2,700.00	2,664.68	19,907.00	9,811.90	9.68	171.86	-160.11	56.01	1,222.02	7,183.93	7,087.19	96.74	74.262	
2,800.00	2,761.80	19,907.00	9,811.90	10.07	171.86	-160.11	56.01	1,222.02	7,084.74	6,987.99	96.75	73.226	
2,900.00	2,858.92	19,907.00	9,811.90	10.45	171.86	-160.11	56.01	1,222.02	6,985.57	6,888.80	96.77	72.190	
3,000.00	2,956.04	19,907.00	9,811.90	10.83	171.86	-160.11	56.01	1,222.02	6,886.42	6,789.64	96.78	71.154	
3,100.00	3,053.16	19,907.00	9,811.90	11.22	171.86	-160.11	56.01	1,222.02	6,787.30	6,690.50	96.80	70.117	
3,200.00	3,150.29	19,907.00	9,811.90	11.60	171.86	-160.11	56.01	1,222.02	6,688.21	6,591.39	96.82	69.080	
3,300.00	3,247.41	19,907.00	9,811.90	11.99	171.86	-160.11	56.01	1,222.02	6,589.14	6,492.31	96.84	68.044	
3,400.00	3,344.53	19,907.00	9,811.90	12.38	171.86	-160.11	56.01	1,222.02	6,490.10	6,393.25	96.86	67.008	
3,500.00	3,441.65	19,907.00	9,811.90	12.76	171.86	-160.11	56.01	1,222.02	6,391.10	6,294.22	96.88	65.972	
3,600.00	3,538.77	19,907.00	9,811.90	13.15	171.86	-160.11	56.01	1,222.02	6,292.12	6,195.22	96.90	64.936	
3,700.00	3,635.89	19,907.00	9,811.90	13.54	171.86	-160.11	56.01	1,222.02	6,193.18	6,096.26	96.92	63.901	
3,800.00	3,733.01	19,907.00	9,811.90	13.93	171.86	-160.11	56.01	1,222.02	6,094.27	5,997.33	96.94	62.866	
3,900.00	3,830.13	19,907.00	9,811.90	14.32	171.86	-160.11	56.01	1,222.02	5,995.39	5,898.43	96.96	61.832	
4,000.00	3,927.25	19,907.00	9,811.90	14.71	171.86	-160.11	56.01	1,222.02	5,896.56	5,799.57	96.98	60.799	
4,100.00	4,024.37	19,907.00	9,811.90	15.10	171.86	-160.11	56.01	1,222.02	5,797.76	5,700.76	97.01	59.767	
4,200.00	4,121.49	19,907.00	9,811.90	15.49	171.86	-160.11	56.01	1,222.02	5,699.01	5,601.98	97.03	58.735	
4,300.00	4,218.61	19,907.00	9,811.90	15.88	171.86	-160.11	56.01	1,222.02	5,600.30	5,503.25	97.05	57.705	
4,400.00	4,315.73	19,907.00	9,811.90	16.27	171.86	-160.11	56.01	1,222.02	5,501.64	5,404.57	97.07	56.676	
4,500.00	4,412.85	19,907.00	9,811.90	16.66	171.86	-160.11	56.01	1,222.02	5,403.03	5,305.93	97.09	55.647	
4,600.00	4,509.97	19,907.00	9,811.90	17.05	171.86	-160.11	56.01	1,222.02	5,304.46	5,207.35	97.12	54.620	
4,700.00	4,607.09	19,907.00	9,811.90	17.45	171.86	-160.11	56.01	1,222.02	5,205.96	5,108.82	97.14	53.594	
4,800.00	4,704.21	19,907.00	9,811.90	17.84	171.86	-160.11	56.01	1,222.02	5,107.51	5,010.35	97.16	52.570	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Hoss 2-11 W1AP Fed Com #2H - OH - Svy — **Offset Site Error:** 0.00 usft

Survey Program: 156-MWD OWSG Rev5 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,801.33	19,907.00	9,811.90	18.23	171.86	-160.11	56.01	1,222.02	5,009.12	4,911.95	97.18	51.546	
5,000.00	4,898.45	19,907.00	9,811.90	18.62	171.86	-160.11	56.01	1,222.02	4,910.80	4,813.61	97.20	50.524	
5,100.00	4,995.57	19,907.00	9,811.90	19.02	171.86	-160.11	56.01	1,222.02	4,812.55	4,715.33	97.22	49.504	
5,200.00	5,092.69	19,907.00	9,811.90	19.41	171.86	-160.11	56.01	1,222.02	4,714.37	4,617.14	97.23	48.485	
5,300.00	5,189.81	19,907.00	9,811.90	19.80	171.86	-160.11	56.01	1,222.02	4,616.27	4,519.02	97.25	47.467	
5,400.00	5,286.93	19,907.00	9,811.90	20.20	171.86	-160.11	56.01	1,222.02	4,518.25	4,420.98	97.27	46.451	
5,500.00	5,384.05	19,907.00	9,811.90	20.59	171.86	-160.11	56.01	1,222.02	4,420.32	4,323.04	97.29	45.436	
5,600.00	5,481.17	19,907.00	9,811.90	20.98	171.86	-160.11	56.01	1,222.02	4,322.49	4,225.19	97.30	44.423	
5,700.00	5,578.29	19,907.00	9,811.90	21.38	171.86	-160.11	56.01	1,222.02	4,224.76	4,127.44	97.32	43.411	
5,800.00	5,675.41	19,907.00	9,811.90	21.77	171.86	-160.11	56.01	1,222.02	4,127.13	4,029.80	97.34	42.401	
5,900.00	5,772.53	19,907.00	9,811.90	22.16	171.86	-160.11	56.01	1,222.02	4,029.63	3,932.28	97.35	41.393	
6,000.00	5,869.65	19,907.00	9,811.90	22.56	171.86	-160.11	56.01	1,222.02	3,932.25	3,834.88	97.37	40.385	
6,100.00	5,966.77	19,907.00	9,811.90	22.95	171.86	-160.11	56.01	1,222.02	3,835.00	3,737.61	97.39	39.380	
6,200.00	6,063.89	19,907.00	9,811.90	23.35	171.86	-160.11	56.01	1,222.02	3,737.90	3,640.49	97.40	38.375	
6,300.00	6,161.01	19,907.00	9,811.90	23.74	171.86	-160.11	56.01	1,222.02	3,640.95	3,543.53	97.42	37.372	
6,400.00	6,258.13	19,907.00	9,811.90	24.14	171.86	-160.11	56.01	1,222.02	3,544.18	3,446.73	97.45	36.370	
6,500.00	6,355.25	19,907.00	9,811.90	24.53	171.86	-160.11	56.01	1,222.02	3,447.59	3,350.11	97.47	35.370	
6,600.00	6,452.37	19,907.00	9,811.90	24.92	171.86	-160.11	56.01	1,222.02	3,351.19	3,253.69	97.50	34.370	
6,700.00	6,549.49	19,907.00	9,811.90	25.32	171.86	-160.11	56.01	1,222.02	3,255.02	3,157.48	97.54	33.371	
6,800.00	6,646.61	19,907.00	9,811.90	25.71	171.86	-160.11	56.01	1,222.02	3,159.09	3,061.50	97.58	32.373	
6,900.00	6,743.73	19,907.00	9,811.90	26.11	171.86	-160.11	56.01	1,222.02	3,063.41	2,965.77	97.64	31.375	
7,000.00	6,840.85	19,907.00	9,811.90	26.50	171.86	-160.11	56.01	1,222.02	2,968.02	2,870.31	97.71	30.377	
7,100.00	6,937.97	19,907.00	9,811.90	26.90	171.86	-160.11	56.01	1,222.02	2,872.94	2,775.15	97.79	29.379	
7,200.00	7,035.09	19,907.00	9,811.90	27.29	171.86	-160.11	56.01	1,222.02	2,778.21	2,680.32	97.89	28.381	
7,300.00	7,132.21	19,907.00	9,811.90	27.69	171.86	-160.11	56.01	1,222.02	2,683.86	2,585.84	98.02	27.381	
7,400.00	7,229.33	19,907.00	9,811.90	28.08	171.86	-160.11	56.01	1,222.02	2,589.94	2,491.76	98.18	26.380	
7,500.00	7,326.45	19,907.00	9,811.90	28.48	171.86	-160.11	56.01	1,222.02	2,496.48	2,398.11	98.37	25.378	
7,600.00	7,423.57	19,907.00	9,811.90	28.87	171.86	-160.11	56.01	1,222.02	2,403.56	2,304.94	98.62	24.372	
7,700.00	7,520.69	19,907.00	9,811.90	29.27	171.86	-160.11	56.01	1,222.02	2,311.22	2,212.30	98.92	23.364	
7,700.27	7,520.96	19,907.00	9,811.90	29.27	171.86	-160.11	56.01	1,222.02	2,310.97	2,212.05	98.92	23.361	
7,800.00	7,618.21	19,907.00	9,811.90	29.66	171.86	-158.41	56.01	1,222.02	2,218.90	2,119.61	99.29	22.348	
7,900.00	7,716.43	19,907.00	9,811.90	30.04	171.86	-156.49	56.01	1,222.02	2,126.00	2,026.30	99.70	21.323	
8,000.00	7,815.25	19,907.00	9,811.90	30.41	171.86	-154.31	56.01	1,222.02	2,032.56	1,932.40	100.16	20.293	
8,100.00	7,914.55	19,907.00	9,811.90	30.78	171.86	-151.82	56.01	1,222.02	1,938.62	1,837.97	100.65	19.261	
8,200.00	8,014.19	19,907.00	9,811.90	31.13	171.86	-149.00	56.01	1,222.02	1,844.23	1,743.06	101.17	18.229	
8,300.00	8,114.07	19,907.00	9,811.90	31.47	171.86	-145.80	56.01	1,222.02	1,749.44	1,647.73	101.70	17.202	
8,389.47	8,203.52	19,907.00	9,811.90	31.77	171.86	-37.44	56.01	1,222.02	1,664.34	1,562.16	102.18	16.288	
8,400.00	8,214.05	19,907.00	9,811.90	31.80	171.86	144.70	56.01	1,222.02	1,654.33	1,552.09	102.24	16.182	
8,450.00	8,263.94	19,907.00	9,811.90	31.95	171.86	151.56	56.01	1,222.02	1,607.69	1,505.20	102.49	15.686	
8,500.00	8,313.37	19,907.00	9,811.90	32.11	171.86	156.05	56.01	1,222.02	1,562.84	1,460.10	102.74	15.212	
8,550.00	8,361.96	19,907.00	9,811.90	32.27	171.86	159.15	56.01	1,222.02	1,520.29	1,417.31	102.97	14.764	
8,600.00	8,409.35	19,907.00	9,811.90	32.42	171.86	161.36	56.01	1,222.02	1,480.57	1,377.38	103.19	14.348	
8,650.00	8,455.17	19,907.00	9,811.90	32.57	171.86	162.98	56.01	1,222.02	1,444.23	1,340.86	103.37	13.972	
8,700.00	8,499.07	19,907.00	9,811.90	32.71	171.86	164.19	56.01	1,222.02	1,411.83	1,308.32	103.51	13.640	
8,750.00	8,540.73	19,907.00	9,811.90	32.85	171.86	165.08	56.01	1,222.02	1,383.88	1,280.29	103.59	13.359	
8,800.00	8,579.82	19,907.00	9,811.90	32.99	171.86	165.74	56.01	1,222.02	1,360.89	1,257.30	103.60	13.136	
8,850.00	8,616.04	19,907.00	9,811.90	33.11	171.86	166.19	56.01	1,222.02	1,343.29	1,239.78	103.52	12.977	
8,900.00	8,649.13	19,907.00	9,811.90	33.24	171.86	166.48	56.01	1,222.02	1,331.43	1,228.10	103.33	12.885	
8,950.00	8,678.82	19,907.00	9,811.90	33.36	171.86	166.62	56.01	1,222.02	1,325.55	1,222.52	103.03	12.866	
8,973.16	8,691.36	19,907.00	9,811.90	33.41	171.86	166.64	56.01	1,222.02	1,324.89	1,222.04	102.84	12.882	CC, ES
9,000.00	8,704.90	19,907.00	9,811.90	33.47	171.86	166.62	56.01	1,222.02	1,325.77	1,223.17	102.60	12.921	
9,050.00	8,727.16	19,907.00	9,811.90	33.58	171.86	166.47	56.01	1,222.02	1,332.10	1,230.03	102.07	13.051	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Hoss 2-11 W1AP Fed Com #2H - OH - Svy — **Offset Site Error:** 0.00 usft

Survey Program: 156-MWD OWSG Rev5 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,745.44	19,907.00	9,811.90	33.70	171.86	166.17	56.01	1,222.02	1,344.40	1,242.98	101.42	13.256	
9,139.47	8,756.95	19,907.00	9,811.90	33.78	171.86	165.81	56.01	1,222.02	1,358.15	1,257.31	100.85	13.468	
9,200.00	8,771.07	19,907.00	9,811.90	33.92	171.86	165.45	56.01	1,222.02	1,384.41	1,284.53	99.89	13.860	
9,300.00	8,787.52	19,907.00	9,811.90	34.14	171.86	164.63	56.01	1,222.02	1,438.07	1,339.87	98.19	14.645	
9,400.00	8,795.32	19,907.00	9,811.90	34.37	171.86	163.45	56.01	1,222.02	1,502.96	1,406.50	96.46	15.581	
9,439.47	8,796.00	19,907.00	9,811.90	34.46	171.86	162.86	56.01	1,222.02	1,531.26	1,435.47	95.79	15.986	
9,500.00	8,796.00	19,907.00	9,811.90	34.60	171.86	162.86	56.01	1,222.02	1,576.26	1,481.49	94.77	16.632	
9,600.00	8,796.00	19,907.00	9,811.90	34.85	171.86	162.86	56.01	1,222.02	1,652.77	1,559.61	93.16	17.741	
9,700.00	8,796.00	19,907.00	9,811.90	35.10	171.86	162.86	56.01	1,222.02	1,731.68	1,640.04	91.64	18.896	
9,800.00	8,796.00	19,907.00	9,811.90	35.37	171.86	162.86	56.01	1,222.02	1,812.67	1,722.45	90.22	20.091	
9,900.00	8,796.00	19,907.00	9,811.90	35.65	171.86	162.86	56.01	1,222.02	1,895.48	1,806.58	88.90	21.321	
10,000.00	8,796.00	19,907.00	9,811.90	35.94	171.86	162.86	56.01	1,222.02	1,979.88	1,892.20	87.68	22.582	
10,100.00	8,796.00	19,907.00	9,811.90	36.24	171.86	162.86	56.01	1,222.02	2,065.67	1,979.13	86.54	23.869	
10,200.00	8,796.00	19,907.00	9,811.90	36.55	171.86	162.86	56.01	1,222.02	2,152.69	2,067.19	85.49	25.179	
10,300.00	8,796.00	19,907.00	9,811.90	36.88	171.86	162.86	56.01	1,222.02	2,240.79	2,156.26	84.53	26.510	
10,400.00	8,796.00	19,907.00	9,811.90	37.22	171.86	162.86	56.01	1,222.02	2,329.85	2,246.21	83.63	27.857	
10,500.00	8,796.00	19,907.00	9,811.90	37.57	171.86	162.86	56.01	1,222.02	2,419.76	2,336.95	82.81	29.220	
10,600.00	8,796.00	19,907.00	9,811.90	37.93	171.86	162.86	56.01	1,222.02	2,510.44	2,428.39	82.05	30.595	
10,700.00	8,796.00	19,907.00	9,811.90	38.29	171.86	162.86	56.01	1,222.02	2,601.81	2,520.45	81.35	31.981	
10,800.00	8,796.00	19,907.00	9,811.90	38.68	171.86	162.86	56.01	1,222.02	2,693.78	2,613.07	80.71	33.376	
10,900.00	8,796.00	19,907.00	9,811.90	39.07	171.86	162.86	56.01	1,222.02	2,786.31	2,706.20	80.11	34.779	
11,000.00	8,796.00	19,907.00	9,811.90	39.47	171.86	162.86	56.01	1,222.02	2,879.34	2,799.77	79.56	36.189	
11,100.00	8,796.00	19,907.00	9,811.90	39.88	171.86	162.86	56.01	1,222.02	2,972.82	2,893.76	79.06	37.604	
11,200.00	8,796.00	19,907.00	9,811.90	40.30	171.86	162.86	56.01	1,222.02	3,066.71	2,988.13	78.59	39.023	
11,300.00	8,796.00	19,907.00	9,811.90	40.73	171.86	162.86	56.01	1,222.02	3,160.98	3,082.83	78.15	40.446	
11,400.00	8,796.00	19,907.00	9,811.90	41.16	171.86	162.86	56.01	1,222.02	3,255.59	3,177.84	77.75	41.872	
11,500.00	8,796.00	19,907.00	9,811.90	41.61	171.86	162.86	56.01	1,222.02	3,350.51	3,273.13	77.38	43.299	
11,600.00	8,796.00	19,907.00	9,811.90	42.07	171.86	162.86	56.01	1,222.02	3,445.72	3,368.69	77.04	44.729	
11,700.00	8,796.00	19,907.00	9,811.90	42.53	171.86	162.86	56.01	1,222.02	3,541.20	3,464.48	76.72	46.159	
11,800.00	8,796.00	19,907.00	9,811.90	43.00	171.86	162.86	56.01	1,222.02	3,636.91	3,560.49	76.42	47.590	
11,900.00	8,796.00	19,907.00	9,811.90	43.48	171.86	162.86	56.01	1,222.02	3,732.85	3,656.71	76.15	49.022	
12,000.00	8,796.00	19,907.00	9,811.90	43.97	171.86	162.86	56.01	1,222.02	3,829.00	3,753.11	75.89	50.453	
12,100.00	8,796.00	19,907.00	9,811.90	44.46	171.86	162.86	56.01	1,222.02	3,925.34	3,849.69	75.66	51.883	
12,200.00	8,796.00	19,907.00	9,811.90	44.97	171.86	162.86	56.01	1,222.02	4,021.86	3,946.43	75.44	53.313	
12,300.00	8,796.00	19,907.00	9,811.90	45.47	171.86	162.86	56.01	1,222.02	4,118.55	4,043.32	75.24	54.742	
12,400.00	8,796.00	19,907.00	9,811.90	45.99	171.86	162.86	56.01	1,222.02	4,215.39	4,140.34	75.05	56.169	
12,500.00	8,796.00	19,907.00	9,811.90	46.51	171.86	162.86	56.01	1,222.02	4,312.38	4,237.50	74.87	57.595	
12,600.00	8,796.00	19,907.00	9,811.90	47.04	171.86	162.86	56.01	1,222.02	4,409.50	4,334.78	74.71	59.019	
12,700.00	8,796.00	19,907.00	9,811.90	47.58	171.86	162.86	56.01	1,222.02	4,506.74	4,432.18	74.56	60.442	
12,800.00	8,796.00	19,907.00	9,811.90	48.12	171.86	162.86	56.01	1,222.02	4,604.11	4,529.68	74.42	61.862	
12,900.00	8,796.00	19,907.00	9,811.90	48.66	171.86	162.86	56.01	1,222.02	4,701.58	4,627.28	74.30	63.281	
13,000.00	8,796.00	19,907.00	9,811.90	49.22	171.86	162.86	56.01	1,222.02	4,799.16	4,724.98	74.18	64.697	
13,100.00	8,796.00	19,907.00	9,811.90	49.77	171.86	162.86	56.01	1,222.02	4,896.84	4,822.77	74.07	66.111	
13,200.00	8,796.00	19,907.00	9,811.90	50.34	171.86	162.86	56.01	1,222.02	4,994.60	4,920.63	73.97	67.522	
13,209.11	8,796.00	19,907.00	9,811.90	50.39	171.86	162.86	56.01	1,222.02	5,003.51	4,929.55	73.96	67.651	
13,250.00	8,796.00	19,907.00	9,811.90	50.62	171.86	-178.72	56.01	1,222.02	5,043.57	4,969.62	73.95	68.203	
13,300.00	8,796.00	19,907.00	9,811.90	50.92	171.86	-156.72	56.01	1,222.02	5,092.54	5,018.53	74.01	68.811	
13,350.00	8,796.00	19,907.00	9,811.90	51.22	171.86	-139.99	56.01	1,222.02	5,141.19	5,067.05	74.14	69.340	
13,400.00	8,796.00	19,907.00	9,811.90	51.52	171.86	-128.73	56.01	1,222.02	5,189.21	5,114.85	74.36	69.785	
13,450.00	8,796.00	19,907.00	9,811.90	51.83	171.86	-121.21	56.01	1,222.02	5,236.30	5,161.65	74.65	70.143	
13,500.00	8,796.00	19,907.00	9,811.90	52.14	171.86	-116.04	56.01	1,222.02	5,282.18	5,207.16	75.02	70.410	
13,550.00	8,796.00	19,907.00	9,811.90	52.45	171.86	-112.33	56.01	1,222.02	5,326.58	5,251.11	75.47	70.583	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Hoss 2-11 W1AP Fed Com #2H - OH - Svy — **Offset Site Error:** 0.00 usft

Survey Program: 156-MWD OWSG Rev5 — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	8,796.00	19,907.00	9,811.90	52.75	171.86	-109.59	56.01	1,222.02	5,369.24	5,293.25	75.99	70.661	
13,650.00	8,796.00	19,907.00	9,811.90	53.04	171.86	-107.51	56.01	1,222.02	5,409.93	5,333.34	76.58	70.643	
13,700.00	8,796.00	19,907.00	9,811.90	53.33	171.86	-105.89	56.01	1,222.02	5,448.41	5,371.16	77.25	70.528	
13,750.00	8,796.00	19,907.00	9,811.90	53.61	171.86	-104.61	56.01	1,222.02	5,484.49	5,406.50	77.99	70.320	
13,800.00	8,796.00	19,907.00	9,811.90	53.87	171.86	-103.58	56.01	1,222.02	5,517.97	5,439.16	78.81	70.020	
13,850.00	8,796.00	19,907.00	9,811.90	54.12	171.86	-102.75	56.01	1,222.02	5,548.68	5,468.99	79.68	69.633	
13,900.00	8,796.00	19,907.00	9,811.90	54.35	171.86	-102.08	56.01	1,222.02	5,576.46	5,495.83	80.63	69.162	
13,950.00	8,796.00	19,907.00	9,811.90	54.56	171.86	-101.53	56.01	1,222.02	5,601.17	5,519.54	81.63	68.613	
14,000.00	8,796.00	19,907.00	9,811.90	54.76	171.86	-101.10	56.01	1,222.02	5,622.69	5,540.00	82.69	67.994	
14,050.00	8,796.00	19,907.00	9,811.90	54.93	171.86	-100.75	56.01	1,222.02	5,640.91	5,557.11	83.81	67.309	
14,100.00	8,796.00	19,907.00	9,811.90	55.08	171.86	-100.48	56.01	1,222.02	5,655.75	5,570.79	84.96	66.566	
14,150.00	8,796.00	19,907.00	9,811.90	55.20	171.86	-100.29	56.01	1,222.02	5,667.13	5,580.97	86.16	65.774	
14,200.00	8,796.00	19,907.00	9,811.90	55.31	171.86	-100.15	56.01	1,222.02	5,674.99	5,587.60	87.39	64.938	
14,250.00	8,796.00	19,907.00	9,811.90	55.39	171.86	-100.08	56.01	1,222.02	5,679.31	5,590.66	88.65	64.067	
14,300.00	8,796.00	19,907.00	9,811.90	55.45	171.86	-100.07	56.01	1,222.02	5,680.05	5,590.13	89.92	63.167	
14,350.00	8,796.00	19,907.00	9,811.90	55.48	171.86	-100.12	56.01	1,222.02	5,677.22	5,586.01	91.21	62.245	
14,400.00	8,796.00	19,907.00	9,811.90	55.49	171.86	-100.22	56.01	1,222.02	5,670.83	5,578.33	92.50	61.308	
14,450.00	8,796.00	19,907.00	9,811.90	55.48	171.86	-100.39	56.01	1,222.02	5,660.91	5,567.13	93.78	60.363	
14,500.00	8,796.00	19,907.00	9,811.90	55.45	171.86	-100.63	56.01	1,222.02	5,647.50	5,552.45	95.05	59.414	
14,550.00	8,796.00	19,907.00	9,811.90	55.40	171.86	-100.94	56.01	1,222.02	5,630.68	5,534.37	96.31	58.467	
14,600.00	8,796.00	19,907.00	9,811.90	55.33	171.86	-101.34	56.01	1,222.02	5,610.52	5,512.99	97.53	57.526	
14,650.00	8,796.00	19,907.00	9,811.90	55.25	171.86	-101.84	56.01	1,222.02	5,587.12	5,488.41	98.72	56.598	
14,700.00	8,796.00	19,907.00	9,811.90	55.15	171.86	-102.45	56.01	1,222.02	5,560.60	5,460.74	99.86	55.684	
14,750.00	8,796.00	19,907.00	9,811.90	55.04	171.86	-103.21	56.01	1,222.02	5,531.10	5,430.14	100.95	54.789	
14,800.00	8,796.00	19,907.00	9,811.90	54.92	171.86	-104.15	56.01	1,222.02	5,498.75	5,396.76	101.99	53.916	
14,850.00	8,796.00	19,907.00	9,811.90	54.79	171.86	-105.32	56.01	1,222.02	5,463.73	5,360.77	102.96	53.068	
14,900.00	8,796.00	19,907.00	9,811.90	54.65	171.86	-106.79	56.01	1,222.02	5,426.22	5,322.37	103.86	52.248	
14,950.00	8,796.00	19,907.00	9,811.90	54.51	171.86	-108.66	56.01	1,222.02	5,386.43	5,281.75	104.68	51.458	
15,000.00	8,796.00	19,907.00	9,811.90	54.37	171.86	-111.10	56.01	1,222.02	5,344.56	5,239.14	105.42	50.700	
15,050.00	8,796.00	19,907.00	9,811.90	54.22	171.86	-114.35	56.01	1,222.02	5,300.85	5,194.79	106.06	49.977	
15,099.11	8,796.00	19,907.00	9,811.90	54.08	171.86	-118.74	56.01	1,222.02	5,256.38	5,149.77	106.61	49.304	
15,100.00	8,796.00	19,907.00	9,811.90	54.08	171.86	-118.76	56.01	1,222.02	5,255.56	5,148.94	106.62	49.292	
15,200.00	8,796.00	19,907.00	9,811.90	53.80	171.86	-121.17	56.01	1,222.02	5,163.15	5,055.54	107.61	47.980	
15,263.03	8,796.00	19,907.00	9,811.90	53.63	171.86	-122.88	56.01	1,222.02	5,104.47	4,996.26	108.20	47.174	
15,300.00	8,796.00	19,907.00	9,811.90	53.53	171.86	-122.88	56.01	1,222.02	5,069.97	4,961.42	108.55	46.706	
15,400.00	8,796.00	19,907.00	9,811.90	53.27	171.86	-122.88	56.01	1,222.02	4,976.83	4,867.32	109.51	45.446	
15,500.00	8,796.00	19,907.00	9,811.90	53.02	171.86	-122.88	56.01	1,222.02	4,883.97	4,773.45	110.52	44.193	
15,600.00	8,796.00	19,907.00	9,811.90	52.78	171.86	-122.88	56.01	1,222.02	4,791.39	4,679.82	111.56	42.947	
15,700.00	8,796.00	19,907.00	9,811.90	52.54	171.86	-122.88	56.01	1,222.02	4,699.12	4,586.45	112.66	41.710	
15,800.00	8,796.00	19,907.00	9,811.90	52.31	171.86	-122.88	56.01	1,222.02	4,607.17	4,493.36	113.81	40.481	
15,900.00	8,796.00	19,907.00	9,811.90	52.09	171.86	-122.88	56.01	1,222.02	4,515.56	4,400.55	115.01	39.262	
16,000.00	8,796.00	19,907.00	9,811.90	51.88	171.86	-122.88	56.01	1,222.02	4,424.31	4,308.05	116.27	38.053	
16,100.00	8,796.00	19,907.00	9,811.90	51.68	171.86	-122.88	56.01	1,222.02	4,333.46	4,215.87	117.58	36.855	
16,200.00	8,796.00	19,907.00	9,811.90	51.49	171.86	-122.88	56.01	1,222.02	4,243.01	4,124.05	118.96	35.668	
16,300.00	8,796.00	19,907.00	9,811.90	51.30	171.86	-122.88	56.01	1,222.02	4,153.00	4,032.60	120.40	34.493	
16,400.00	8,796.00	19,907.00	9,811.90	51.13	171.86	-122.88	56.01	1,222.02	4,063.46	3,941.54	121.91	33.331	
16,500.00	8,796.00	19,907.00	9,811.90	50.96	171.86	-122.88	56.01	1,222.02	3,974.41	3,850.92	123.50	32.182	
16,600.00	8,796.00	19,907.00	9,811.90	50.80	171.86	-122.88	56.01	1,222.02	3,885.90	3,760.75	125.16	31.048	
16,700.00	8,796.00	19,907.00	9,811.90	50.65	171.86	-122.88	56.01	1,222.02	3,797.96	3,671.07	126.90	29.929	
16,800.00	8,796.00	19,907.00	9,811.90	50.51	171.86	-122.88	56.01	1,222.02	3,710.64	3,581.91	128.72	28.827	
16,900.00	8,796.00	19,907.00	9,811.90	50.38	171.86	-122.88	56.01	1,222.02	3,623.96	3,493.33	130.63	27.741	
17,000.00	8,796.00	19,907.00	9,811.90	50.26	171.86	-122.88	56.01	1,222.02	3,537.99	3,405.35	132.64	26.674	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Hoss 2-11 W1AP Fed Com #2H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 156-MWD OWSG Rev5

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,100.00	8,796.00	19,907.00	9,811.90	50.15	171.86	-122.88	56.01	1,222.02	3,452.78	3,318.04	134.74	25.625	
17,200.00	8,796.00	19,907.00	9,811.90	50.05	171.86	-122.88	56.01	1,222.02	3,368.38	3,231.43	136.94	24.597	
17,300.00	8,796.00	19,907.00	9,811.90	49.97	171.86	-122.88	56.01	1,222.02	3,284.85	3,145.60	139.25	23.589	
17,400.00	8,796.00	19,907.00	9,811.90	49.89	171.86	-122.88	56.01	1,222.02	3,202.27	3,060.60	141.67	22.603	
17,500.00	8,796.00	19,907.00	9,811.90	49.82	171.86	-122.88	56.01	1,222.02	3,120.71	2,976.50	144.20	21.641	
17,600.00	8,796.00	19,907.00	9,811.90	49.76	171.86	-122.88	56.01	1,222.02	3,040.25	2,893.39	146.85	20.703	
17,700.00	8,796.00	19,907.00	9,811.90	49.72	171.86	-122.88	56.01	1,222.02	2,960.98	2,811.36	149.62	19.790	
17,800.00	8,796.00	19,907.00	9,811.90	49.68	171.86	-122.88	56.01	1,222.02	2,883.00	2,730.49	152.51	18.904	
17,900.00	8,796.00	19,907.00	9,811.90	49.66	171.86	-122.88	56.01	1,222.02	2,806.41	2,650.89	155.52	18.045	
18,000.00	8,796.00	19,907.00	9,811.90	49.65	171.86	-122.88	56.01	1,222.02	2,731.34	2,572.69	158.65	17.216	
18,100.00	8,796.00	19,907.00	9,811.90	49.65	171.86	-122.88	56.01	1,222.02	2,657.92	2,496.01	161.91	16.416	
18,200.00	8,796.00	19,907.00	9,811.90	49.66	171.86	-122.88	56.01	1,222.02	2,586.27	2,420.99	165.28	15.648	
18,300.00	8,796.00	19,907.00	9,811.90	49.69	171.86	-122.88	56.01	1,222.02	2,516.56	2,347.81	168.76	14.912	
18,400.00	8,796.00	19,907.00	9,811.90	49.73	171.86	-122.88	56.01	1,222.02	2,448.95	2,276.62	172.33	14.210	
18,500.00	8,796.00	19,907.00	9,811.90	49.78	171.86	-122.88	56.01	1,222.02	2,383.62	2,207.62	176.00	13.543	
18,600.00	8,796.00	19,907.00	9,811.90	49.84	171.86	-122.88	56.01	1,222.02	2,320.76	2,141.03	179.73	12.912	
18,700.00	8,796.00	19,907.00	9,811.90	49.92	171.86	-122.88	56.01	1,222.02	2,260.58	2,077.07	183.51	12.318	
18,800.00	8,796.00	19,907.00	9,811.90	50.01	171.86	-122.88	56.01	1,222.02	2,203.29	2,015.98	187.31	11.763	
18,900.00	8,796.00	19,907.00	9,811.90	50.12	171.86	-122.88	56.01	1,222.02	2,149.14	1,958.04	191.09	11.247	
19,000.00	8,796.00	19,907.00	9,811.90	50.24	171.86	-122.88	56.01	1,222.02	2,098.35	1,903.53	194.82	10.771	
19,100.00	8,796.00	19,907.00	9,811.90	50.37	171.86	-122.88	56.01	1,222.02	2,051.18	1,852.74	198.44	10.337	
19,200.00	8,796.00	19,907.00	9,811.90	50.51	171.86	-122.88	56.01	1,222.02	2,007.89	1,805.99	201.91	9.945	
19,300.00	8,796.00	19,907.00	9,811.90	50.67	171.86	-122.88	56.01	1,222.02	1,968.74	1,763.57	205.16	9.596	
19,400.00	8,796.00	19,907.00	9,811.90	50.85	171.86	-122.88	56.01	1,222.02	1,933.96	1,725.81	208.15	9.291	
19,500.00	8,796.00	19,907.00	9,811.90	51.03	171.86	-122.88	56.01	1,222.02	1,903.81	1,693.01	210.80	9.032	
19,600.00	8,796.00	19,907.00	9,811.90	51.23	171.86	-122.88	56.01	1,222.02	1,878.50	1,665.45	213.05	8.817	
19,634.41	8,796.00	19,907.00	9,811.90	51.30	171.86	-122.88	56.01	1,222.02	1,870.95	1,657.23	213.72	8.754	SF

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 1H - OH - Plan 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.34	0.46	39.98	39.98				
100.00	100.00	100.00	100.00	0.28	0.28	89.34	0.46	39.98	39.98	39.43	0.55	72.426	
200.00	200.00	200.00	200.00	0.63	0.63	89.34	0.46	39.98	39.98	38.71	1.27	31.507	
300.00	300.00	300.00	300.00	0.99	0.99	89.34	0.46	39.98	39.98	38.00	1.99	20.133	
400.00	400.00	400.00	400.00	1.35	1.35	89.34	0.46	39.98	39.98	37.28	2.70	14.793	
500.00	500.00	500.00	500.00	1.71	1.71	89.34	0.46	39.98	39.98	36.56	3.42	11.691	CC, ES
600.00	599.98	598.60	598.58	2.07	2.05	92.28	0.04	41.62	41.68	37.56	4.12	10.115	
700.00	699.84	696.75	696.60	2.43	2.39	99.69	-1.21	46.52	47.35	42.54	4.81	9.839	
750.00	749.68	745.53	745.23	2.61	2.56	104.10	-2.14	50.17	52.03	46.87	5.16	10.087	
800.00	799.49	794.97	794.49	2.79	2.74	108.29	-3.21	54.34	57.61	52.10	5.51	10.460	
900.00	899.11	894.03	893.16	3.15	3.08	114.58	-5.34	62.71	69.48	63.26	6.21	11.187	
1,000.00	998.73	993.08	991.84	3.51	3.43	119.01	-7.48	71.07	81.93	75.01	6.92	11.846	
1,001.27	1,000.00	994.34	993.09	3.51	3.44	119.06	-7.50	71.18	82.09	75.16	6.93	11.854	
1,100.00	1,098.41	1,089.49	1,087.75	3.87	3.78	99.15	-10.05	80.47	94.42	86.82	7.60	12.425	
1,200.00	1,198.13	1,185.36	1,182.75	4.22	4.12	74.56	-13.77	92.78	106.88	98.61	8.27	12.928	
1,300.00	1,297.78	1,280.91	1,276.95	4.58	4.47	54.83	-18.64	107.98	119.19	110.27	8.93	13.355	
1,400.00	1,397.23	1,376.13	1,370.25	4.93	4.82	42.07	-24.63	126.04	131.28	121.71	9.57	13.715	
1,500.00	1,496.35	1,473.74	1,465.32	5.28	5.18	33.98	-31.73	146.98	142.55	132.30	10.25	13.905	
1,600.00	1,595.04	1,573.41	1,562.33	5.63	5.56	28.78	-39.07	168.60	150.63	139.66	10.96	13.737	
1,700.00	1,693.16	1,673.29	1,659.56	5.98	5.94	25.36	-46.44	190.28	155.24	143.55	11.68	13.286	
1,792.67	1,783.48	1,765.93	1,749.73	6.31	6.29	23.22	-53.27	210.38	156.42	144.06	12.36	12.658	
1,800.00	1,790.60	1,773.26	1,756.87	6.34	6.32	23.27	-53.81	211.97	156.39	143.98	12.41	12.601	
1,900.00	1,887.72	1,873.25	1,854.19	6.70	6.70	23.90	-61.18	233.66	156.07	142.93	13.14	11.875	
2,000.00	1,984.84	1,973.23	1,951.52	7.06	7.08	24.54	-68.55	255.36	155.77	141.89	13.88	11.222	
2,100.00	2,081.96	2,073.22	2,048.84	7.43	7.46	25.17	-75.92	277.05	155.49	140.87	14.62	10.632	
2,200.00	2,179.08	2,173.20	2,146.17	7.80	7.85	25.81	-83.28	298.74	155.23	139.86	15.37	10.098	
2,300.00	2,276.20	2,273.19	2,243.49	8.17	8.24	26.45	-90.65	320.44	154.99	138.87	16.12	9.613	
2,400.00	2,373.32	2,373.17	2,340.82	8.55	8.62	27.10	-98.02	342.13	154.77	137.89	16.88	9.171	
2,500.00	2,470.44	2,473.15	2,438.14	8.93	9.01	27.74	-105.39	363.83	154.57	136.93	17.63	8.766	
2,600.00	2,567.56	2,573.14	2,535.46	9.30	9.40	28.39	-112.76	385.52	154.38	135.99	18.39	8.394	
2,700.00	2,664.68	2,673.12	2,632.79	9.68	9.79	29.04	-120.13	407.21	154.22	135.07	19.15	8.052	
2,800.00	2,761.80	2,773.11	2,730.11	10.07	10.17	29.68	-127.50	428.91	154.08	134.16	19.91	7.737	
2,900.00	2,858.92	2,873.09	2,827.44	10.45	10.56	30.33	-134.87	450.60	153.95	133.27	20.68	7.445	
3,000.00	2,956.04	2,973.08	2,924.76	10.83	10.95	30.99	-142.24	472.29	153.85	132.40	21.44	7.174	
3,100.00	3,053.16	3,073.06	3,022.08	11.22	11.34	31.64	-149.61	493.99	153.76	131.55	22.21	6.923	
3,200.00	3,150.29	3,173.05	3,119.41	11.60	11.73	32.29	-156.98	515.68	153.70	130.72	22.98	6.689	
3,300.00	3,247.41	3,273.03	3,216.73	11.99	12.12	32.94	-164.35	537.38	153.66	129.91	23.75	6.470	
3,400.00	3,344.53	3,373.02	3,314.06	12.38	12.52	33.60	-171.72	559.07	153.63	129.11	24.52	6.266	
3,470.55	3,413.04	3,443.55	3,382.72	12.65	12.79	34.06	-176.92	574.37	153.63	128.57	25.06	6.130	
3,500.00	3,441.65	3,473.00	3,411.38	12.76	12.91	34.25	-179.09	580.76	153.63	128.34	25.29	6.075	
3,600.00	3,538.77	3,572.99	3,508.71	13.15	13.30	34.90	-186.46	602.46	153.64	127.58	26.06	5.896	
3,700.00	3,635.89	3,672.97	3,606.03	13.54	13.69	35.56	-193.83	624.15	153.68	126.85	26.83	5.728	
3,800.00	3,733.01	3,772.95	3,703.35	13.93	14.08	36.21	-201.20	645.85	153.74	126.13	27.60	5.569	
3,900.00	3,830.13	3,872.94	3,800.68	14.32	14.47	36.86	-208.57	667.54	153.81	125.43	28.38	5.420	
4,000.00	3,927.25	3,972.92	3,898.00	14.71	14.86	37.51	-215.94	689.23	153.91	124.76	29.15	5.280	
4,100.00	4,024.37	4,072.91	3,995.33	15.10	15.26	38.17	-223.31	710.93	154.02	124.10	29.93	5.147	
4,200.00	4,121.49	4,172.89	4,092.65	15.49	15.65	38.82	-230.68	732.62	154.16	123.46	30.70	5.021	
4,300.00	4,218.61	4,272.88	4,189.97	15.88	16.04	39.46	-238.05	754.32	154.31	122.84	31.48	4.903	
4,400.00	4,315.73	4,372.86	4,287.30	16.27	16.43	40.11	-245.42	776.01	154.49	122.24	32.25	4.790	
4,500.00	4,412.85	4,472.85	4,384.62	16.66	16.82	40.76	-252.79	797.70	154.68	121.66	33.03	4.683	
4,600.00	4,509.97	4,572.83	4,481.95	17.05	17.22	41.40	-260.16	819.40	154.90	121.09	33.80	4.582	
4,700.00	4,607.09	4,672.82	4,579.27	17.45	17.61	42.04	-267.53	841.09	155.13	120.55	34.58	4.486	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 1H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,704.21	4,772.80	4,676.59	17.84	18.00	42.68	-274.90	862.79	155.38	120.03	35.36	4.395	
4,900.00	4,801.33	4,872.79	4,773.92	18.23	18.40	43.32	-282.27	884.48	155.66	119.52	36.14	4.308	
5,000.00	4,898.45	4,972.77	4,871.24	18.62	18.79	43.96	-289.64	906.17	155.95	119.03	36.91	4.225	
5,100.00	4,995.57	5,072.76	4,968.57	19.02	19.18	44.59	-297.01	927.87	156.26	118.57	37.69	4.146	
5,200.00	5,092.69	5,172.74	5,065.89	19.41	19.57	45.22	-304.38	949.56	156.59	118.12	38.47	4.070	
5,300.00	5,189.81	5,272.72	5,163.22	19.80	19.97	45.85	-311.75	971.25	156.94	117.69	39.25	3.998	
5,400.00	5,286.93	5,372.71	5,260.54	20.20	20.36	46.47	-319.12	992.95	157.31	117.28	40.03	3.930	
5,500.00	5,384.05	5,472.69	5,357.86	20.59	20.75	47.09	-326.49	1,014.64	157.69	116.88	40.81	3.864	
5,600.00	5,481.17	5,572.68	5,455.19	20.98	21.15	47.71	-333.86	1,036.34	158.10	116.51	41.59	3.801	
5,700.00	5,578.29	5,672.66	5,552.51	21.38	21.54	48.33	-341.23	1,058.03	158.52	116.15	42.37	3.741	
5,800.00	5,675.41	5,772.65	5,649.84	21.77	21.93	48.94	-348.60	1,079.72	158.96	115.81	43.15	3.684	
5,900.00	5,772.53	5,872.63	5,747.16	22.16	22.33	49.55	-355.97	1,101.42	159.42	115.49	43.93	3.629	
6,000.00	5,869.65	5,972.62	5,844.48	22.56	22.72	50.15	-363.34	1,123.11	159.90	115.18	44.71	3.576	
6,100.00	5,966.77	6,072.60	5,941.81	22.95	23.11	50.76	-370.71	1,144.81	160.39	114.90	45.49	3.526	
6,200.00	6,063.89	6,172.59	6,039.13	23.35	23.51	51.35	-378.08	1,166.50	160.90	114.63	46.28	3.477	
6,300.00	6,161.01	6,272.57	6,136.46	23.74	23.90	51.95	-385.44	1,188.19	161.43	114.38	47.06	3.431	
6,400.00	6,258.13	6,372.56	6,233.78	24.14	24.29	52.54	-392.81	1,209.89	161.98	114.14	47.84	3.386	
6,500.00	6,355.25	6,472.54	6,331.11	24.53	24.69	53.12	-400.18	1,231.58	162.54	113.92	48.62	3.343	
6,600.00	6,452.37	6,572.52	6,428.43	24.92	25.08	53.70	-407.55	1,253.28	163.13	113.72	49.41	3.302	
6,700.00	6,549.49	6,672.51	6,525.75	25.32	25.47	54.28	-414.92	1,274.97	163.72	113.53	50.19	3.262	
6,800.00	6,646.61	6,772.49	6,623.08	25.71	25.87	54.86	-422.29	1,296.66	164.34	113.37	50.97	3.224	
6,900.00	6,743.73	6,872.48	6,720.40	26.11	26.26	55.42	-429.66	1,318.36	164.97	113.21	51.76	3.187	
7,000.00	6,840.85	6,972.46	6,817.73	26.50	26.66	55.99	-437.03	1,340.05	165.61	113.08	52.54	3.152	
7,100.00	6,937.97	7,072.45	6,915.05	26.90	27.05	56.55	-444.40	1,361.75	166.28	112.95	53.32	3.118	SF
7,200.00	7,035.09	7,160.08	7,000.20	27.29	27.39	57.26	-452.62	1,380.62	169.06	115.21	53.85	3.140	
7,300.00	7,132.21	7,236.73	7,073.31	27.69	27.70	58.93	-469.27	1,396.29	183.44	129.82	53.62	3.421	
7,400.00	7,229.33	7,309.00	7,139.77	28.08	27.98	61.13	-493.96	1,409.99	210.20	157.48	52.72	3.987	
7,500.00	7,326.45	7,375.18	7,197.64	28.48	28.23	63.32	-523.88	1,421.44	248.39	197.09	51.30	4.842	
7,600.00	7,423.57	7,434.49	7,246.40	28.87	28.44	65.20	-556.31	1,430.68	296.64	247.06	49.58	5.983	
7,700.00	7,520.69	7,486.87	7,286.60	29.27	28.62	66.71	-589.07	1,437.96	353.38	305.63	47.75	7.401	
7,700.27	7,520.96	7,487.01	7,286.70	29.27	28.62	66.72	-589.16	1,437.98	353.55	305.80	47.74	7.405	
7,800.00	7,618.21	7,532.61	7,319.22	29.66	28.78	69.29	-620.61	1,443.58	417.61	371.66	45.95	9.088	
7,900.00	7,716.43	7,572.19	7,345.41	30.04	28.91	71.68	-649.96	1,447.87	488.29	443.99	44.29	11.024	
8,000.00	7,815.25	7,600.00	7,362.62	30.41	28.99	74.05	-671.65	1,450.55	564.14	521.70	42.43	13.294	
8,100.00	7,914.55	7,635.75	7,383.21	30.78	29.10	76.52	-700.71	1,453.58	643.91	602.36	41.54	15.500	
8,200.00	8,014.19	7,650.00	7,390.91	31.13	29.15	79.34	-712.64	1,454.65	727.17	687.25	39.92	18.217	
8,300.00	8,114.07	7,683.12	7,407.71	31.47	29.25	82.05	-741.10	1,456.86	812.62	773.05	39.57	20.534	
8,389.47	8,203.52	7,700.00	7,415.64	31.77	29.30	-170.01	-755.97	1,457.82	891.00	852.09	38.91	22.898	
8,400.00	8,214.05	7,700.00	7,415.64	31.80	29.30	9.90	-755.97	1,457.82	900.28	861.52	38.76	23.224	
8,450.00	8,263.94	7,700.00	7,415.64	31.95	29.30	8.52	-755.97	1,457.82	943.47	905.43	38.04	24.803	
8,500.00	8,313.37	7,722.41	7,425.52	32.11	29.36	7.15	-776.05	1,458.92	984.43	946.34	38.09	25.844	
8,550.00	8,361.96	7,733.69	7,430.20	32.27	29.39	6.28	-786.30	1,459.40	1,023.58	985.92	37.66	27.179	
8,600.00	8,409.35	7,750.00	7,436.62	32.42	29.44	5.57	-801.28	1,460.01	1,060.61	1,023.26	37.35	28.394	
8,650.00	8,455.17	7,750.00	7,436.62	32.57	29.44	5.12	-801.28	1,460.01	1,095.39	1,058.92	36.47	30.033	
8,700.00	8,499.07	7,771.21	7,444.34	32.71	29.49	4.64	-821.03	1,460.65	1,127.63	1,091.39	36.25	31.110	
8,750.00	8,540.73	7,800.00	7,453.68	32.85	29.57	4.24	-848.25	1,461.23	1,157.75	1,121.55	36.20	31.981	
8,800.00	8,579.82	7,800.00	7,453.68	32.99	29.57	4.01	-848.25	1,461.23	1,184.67	1,149.38	35.29	33.568	
8,850.00	8,616.04	7,812.83	7,457.41	33.11	29.61	3.79	-860.52	1,461.38	1,209.20	1,174.45	34.76	34.791	
8,900.00	8,649.13	7,825.96	7,460.95	33.24	29.64	3.61	-873.16	1,461.47	1,230.98	1,196.75	34.23	35.960	
8,950.00	8,678.82	7,850.30	7,467.00	33.36	29.71	3.46	-896.75	1,461.56	1,249.76	1,215.76	33.99	36.766	
9,000.00	8,704.90	7,872.96	7,472.18	33.47	29.77	3.34	-918.80	1,461.66	1,265.37	1,231.66	33.71	37.540	
9,050.00	8,727.16	7,900.00	7,477.79	33.58	29.84	3.25	-945.25	1,461.77	1,277.77	1,244.25	33.52	38.115	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 1H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,745.44	7,900.00	7,477.79	33.70	29.84	3.20	-945.25	1,461.77	1,287.18	1,254.41	32.77	39.277	
9,139.47	8,756.95	7,937.58	7,484.55	33.78	29.94	3.16	-982.22	1,461.93	1,291.74	1,258.76	32.99	39.161	
9,200.00	8,771.07	7,965.93	7,488.84	33.92	30.01	3.14	-1,010.24	1,462.05	1,296.77	1,264.05	32.73	39.625	
9,300.00	8,787.52	8,000.00	7,493.08	34.14	30.11	3.12	-1,044.04	1,462.20	1,301.51	1,269.33	32.18	40.444	
9,400.00	8,795.32	8,059.63	7,498.08	34.37	30.27	3.12	-1,103.46	1,462.47	1,301.35	1,269.15	32.20	40.412	
9,439.47	8,796.00	8,100.00	7,499.70	34.46	30.38	3.13	-1,143.79	1,462.65	1,300.46	1,267.98	32.48	40.042	
9,500.00	8,796.00	8,100.00	7,499.70	34.60	30.38	3.13	-1,143.79	1,462.65	1,298.33	1,266.26	32.07	40.483	
9,600.00	8,796.00	8,184.49	7,499.99	34.85	30.61	3.13	-1,228.28	1,463.03	1,297.94	1,265.34	32.60	39.809	
9,700.00	8,796.00	8,284.49	7,499.99	35.10	30.89	3.13	-1,328.28	1,463.49	1,297.94	1,264.57	33.37	38.891	
9,800.00	8,796.00	8,384.49	7,499.99	35.37	31.19	3.13	-1,428.28	1,463.95	1,297.94	1,263.74	34.20	37.953	
9,900.00	8,796.00	8,484.49	7,499.99	35.65	31.51	3.13	-1,528.28	1,464.41	1,297.94	1,262.86	35.07	37.005	
10,000.00	8,796.00	8,584.49	7,499.99	35.94	31.83	3.12	-1,628.28	1,464.86	1,297.94	1,261.94	36.00	36.056	
10,100.00	8,796.00	8,684.49	7,500.00	36.24	32.17	3.12	-1,728.28	1,465.32	1,297.93	1,260.97	36.96	35.113	
10,200.00	8,796.00	8,784.49	7,500.00	36.55	32.52	3.12	-1,828.28	1,465.78	1,297.93	1,259.96	37.97	34.182	
10,300.00	8,796.00	8,884.49	7,500.00	36.88	32.88	3.12	-1,928.28	1,466.24	1,297.93	1,258.92	39.02	33.267	
10,400.00	8,796.00	8,984.49	7,500.00	37.22	33.26	3.12	-2,028.27	1,466.70	1,297.93	1,257.84	40.09	32.372	
10,500.00	8,796.00	9,084.49	7,500.00	37.57	33.65	3.12	-2,128.27	1,467.15	1,297.93	1,256.73	41.20	31.500	
10,600.00	8,796.00	9,184.49	7,500.00	37.93	34.04	3.12	-2,228.27	1,467.61	1,297.93	1,255.59	42.34	30.652	
10,700.00	8,796.00	9,284.49	7,500.00	38.29	34.45	3.12	-2,328.27	1,468.07	1,297.93	1,254.42	43.51	29.831	
10,800.00	8,796.00	9,384.49	7,500.00	38.68	34.87	3.12	-2,428.27	1,468.53	1,297.93	1,253.23	44.70	29.036	
10,900.00	8,796.00	9,484.49	7,500.00	39.07	35.30	3.12	-2,528.27	1,468.98	1,297.93	1,252.01	45.91	28.269	
11,000.00	8,796.00	9,584.49	7,500.00	39.47	35.74	3.12	-2,628.27	1,469.44	1,297.93	1,250.78	47.15	27.529	
11,100.00	8,796.00	9,684.49	7,500.00	39.88	36.19	3.12	-2,728.27	1,469.90	1,297.92	1,249.52	48.40	26.816	
11,200.00	8,796.00	9,784.49	7,500.00	40.30	36.65	3.12	-2,828.27	1,470.36	1,297.92	1,248.25	49.67	26.129	
11,300.00	8,796.00	9,884.49	7,500.00	40.73	37.12	3.12	-2,928.26	1,470.81	1,297.92	1,246.96	50.96	25.469	
11,400.00	8,796.00	9,984.49	7,500.00	41.16	37.60	3.11	-3,028.26	1,471.27	1,297.92	1,245.66	52.26	24.834	
11,500.00	8,796.00	10,084.49	7,500.00	41.61	38.09	3.11	-3,128.26	1,471.73	1,297.92	1,244.34	53.58	24.223	
11,600.00	8,796.00	10,184.49	7,500.00	42.07	38.59	3.11	-3,228.26	1,472.19	1,297.92	1,243.01	54.91	23.636	
11,700.00	8,796.00	10,284.49	7,500.00	42.53	39.09	3.11	-3,328.26	1,472.64	1,297.92	1,241.66	56.26	23.072	
11,800.00	8,796.00	10,384.49	7,500.00	43.00	39.60	3.11	-3,428.26	1,473.10	1,297.92	1,240.31	57.61	22.529	
11,900.00	8,796.00	10,484.49	7,500.00	43.48	40.12	3.11	-3,528.26	1,473.56	1,297.92	1,238.94	58.97	22.008	
12,000.00	8,796.00	10,584.49	7,500.00	43.97	40.65	3.11	-3,628.26	1,474.02	1,297.91	1,237.56	60.35	21.507	
12,100.00	8,796.00	10,684.49	7,500.00	44.46	41.18	3.11	-3,728.26	1,474.48	1,297.91	1,236.18	61.73	21.024	
12,200.00	8,796.00	10,784.49	7,500.00	44.97	41.72	3.11	-3,828.26	1,474.93	1,297.91	1,234.79	63.13	20.560	
12,300.00	8,796.00	10,884.49	7,500.00	45.47	42.27	3.11	-3,928.25	1,475.39	1,297.91	1,233.38	64.53	20.114	
12,400.00	8,796.00	10,984.49	7,500.00	45.99	42.82	3.11	-4,028.25	1,475.85	1,297.91	1,231.97	65.94	19.684	
12,500.00	8,796.00	11,084.49	7,500.00	46.51	43.38	3.11	-4,128.25	1,476.31	1,297.91	1,230.56	67.35	19.271	
12,600.00	8,796.00	11,184.49	7,500.00	47.04	43.95	3.11	-4,228.25	1,476.76	1,297.91	1,229.13	68.77	18.872	
12,700.00	8,796.00	11,284.49	7,500.00	47.58	44.52	3.11	-4,328.25	1,477.22	1,297.91	1,227.70	70.20	18.488	
12,800.00	8,796.00	11,384.49	7,500.00	48.12	45.09	3.10	-4,428.25	1,477.68	1,297.91	1,226.27	71.64	18.118	
12,900.00	8,796.00	11,484.49	7,500.00	48.66	45.67	3.10	-4,528.25	1,478.14	1,297.90	1,224.83	73.08	17.761	
13,000.00	8,796.00	11,584.79	7,500.00	49.22	46.26	3.10	-4,628.54	1,478.60	1,297.90	1,223.38	74.52	17.416	
13,100.00	8,796.00	11,693.41	7,500.00	49.77	46.92	2.77	-4,736.78	1,486.70	1,297.54	1,221.30	76.24	17.019	
13,200.00	8,796.00	11,798.26	7,500.00	50.34	47.58	1.85	-4,839.39	1,507.94	1,296.72	1,218.57	78.15	16.593	
13,209.11	8,796.00	11,807.52	7,500.00	50.39	47.64	1.74	-4,848.30	1,510.44	1,296.65	1,218.31	78.33	16.553	
13,250.00	8,796.00	11,848.74	7,500.00	50.62	47.90	1.29	-4,887.63	1,522.78	1,296.35	1,217.22	79.13	16.382	
13,300.00	8,796.00	11,898.67	7,500.00	50.92	48.23	0.77	-4,934.37	1,540.33	1,296.12	1,216.04	80.09	16.184	
13,350.00	8,796.00	11,948.13	7,500.00	51.22	48.55	0.29	-4,979.53	1,560.47	1,296.02	1,215.01	81.00	15.999	
13,382.57	8,796.00	11,980.13	7,500.00	51.42	48.75	0.00	-5,008.07	1,574.93	1,296.00	1,214.42	81.58	15.886	
13,400.00	8,796.00	11,997.19	7,500.00	51.52	48.86	-0.15	-5,023.05	1,583.09	1,296.00	1,214.12	81.89	15.827	
13,450.00	8,796.00	12,045.89	7,500.00	51.83	49.18	-0.54	-5,064.85	1,608.07	1,296.06	1,213.32	82.74	15.665	
13,500.00	8,796.00	12,094.28	7,500.00	52.14	49.48	-0.89	-5,104.86	1,635.29	1,296.16	1,212.61	83.55	15.513	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 1H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,550.00	8,796.00	12,142.43	7,500.00	52.45	49.79	-1.19	-5,143.00	1,664.65	1,296.28	1,211.95	84.34	15.370	
13,600.00	8,796.00	12,190.36	7,500.00	52.75	50.08	-1.44	-5,179.21	1,696.04	1,296.41	1,211.32	85.09	15.235	
13,650.00	8,796.00	12,238.12	7,500.00	53.04	50.37	-1.64	-5,213.42	1,729.37	1,296.53	1,210.71	85.82	15.107	
13,700.00	8,796.00	12,285.76	7,500.00	53.33	50.65	-1.79	-5,245.56	1,764.52	1,296.63	1,210.10	86.53	14.985	
13,750.00	8,796.00	12,333.31	7,500.00	53.61	50.93	-1.88	-5,275.57	1,801.41	1,296.70	1,209.48	87.22	14.867	
13,800.00	8,796.00	12,380.82	7,500.00	53.87	51.19	-1.92	-5,303.36	1,839.92	1,296.73	1,208.84	87.89	14.754	
13,850.00	8,796.00	12,428.31	7,500.00	54.12	51.44	-1.91	-5,328.90	1,879.96	1,296.72	1,208.16	88.56	14.643	
13,900.00	8,796.00	12,475.84	7,500.00	54.35	51.69	-1.84	-5,352.09	1,921.43	1,296.67	1,207.45	89.22	14.534	
13,950.00	8,796.00	12,523.43	7,500.00	54.56	51.92	-1.72	-5,372.89	1,964.23	1,296.58	1,206.70	89.88	14.426	
14,000.00	8,796.00	12,571.13	7,500.00	54.76	52.14	-1.54	-5,391.22	2,008.26	1,296.47	1,205.92	90.55	14.318	
14,050.00	8,796.00	12,618.98	7,500.00	54.93	52.35	-1.32	-5,407.02	2,053.42	1,296.35	1,205.12	91.23	14.210	
14,100.00	8,796.00	12,667.01	7,500.00	55.08	52.54	-1.04	-5,420.22	2,099.60	1,296.22	1,204.29	91.92	14.101	
14,150.00	8,796.00	12,715.28	7,500.00	55.20	52.72	-0.71	-5,430.75	2,146.70	1,296.10	1,203.46	92.64	13.991	
14,200.00	8,796.00	12,763.84	7,500.00	55.31	52.89	-0.34	-5,438.54	2,194.61	1,296.02	1,202.64	93.38	13.879	
14,241.27	8,796.00	12,804.15	7,500.00	55.37	53.01	0.00	-5,442.86	2,234.69	1,296.00	1,201.99	94.01	13.786	
14,250.00	8,796.00	12,812.71	7,500.00	55.39	53.04	0.08	-5,443.53	2,243.23	1,296.00	1,201.85	94.15	13.766	
14,300.00	8,796.00	12,861.97	7,500.00	55.45	53.17	0.54	-5,445.63	2,292.44	1,296.06	1,201.11	94.95	13.651	
14,350.00	8,796.00	12,911.67	7,500.00	55.48	53.29	1.04	-5,444.77	2,342.12	1,296.22	1,200.45	95.78	13.534	
14,400.00	8,796.00	12,961.87	7,500.00	55.49	53.39	1.58	-5,440.86	2,392.16	1,296.53	1,199.89	96.64	13.416	
14,450.00	8,796.00	13,012.64	7,500.00	55.48	53.48	2.15	-5,433.82	2,442.43	1,296.99	1,199.45	97.54	13.297	
14,500.00	8,796.00	13,064.05	7,500.00	55.45	53.54	2.76	-5,423.54	2,492.80	1,297.65	1,199.17	98.47	13.178	
14,550.00	8,796.00	13,116.19	7,500.00	55.40	53.59	3.39	-5,409.94	2,543.12	1,298.53	1,199.08	99.44	13.058	
14,600.00	8,796.00	13,169.14	7,500.00	55.33	53.62	4.05	-5,392.90	2,593.24	1,299.66	1,199.21	100.45	12.939	
14,650.00	8,796.00	13,223.00	7,500.00	55.25	53.63	4.74	-5,372.31	2,643.00	1,301.06	1,199.58	101.49	12.820	
14,700.00	8,796.00	13,277.90	7,500.00	55.15	53.62	5.44	-5,348.01	2,692.22	1,302.77	1,200.21	102.56	12.703	
14,750.00	8,796.00	13,333.95	7,500.00	55.04	53.59	6.17	-5,319.89	2,740.70	1,304.80	1,201.14	103.66	12.587	
14,800.00	8,796.00	13,391.30	7,500.00	54.92	53.55	6.91	-5,287.77	2,788.20	1,307.17	1,202.37	104.79	12.474	
14,850.00	8,796.00	13,450.11	7,500.00	54.79	53.48	7.67	-5,251.50	2,834.46	1,309.89	1,203.93	105.95	12.363	
14,900.00	8,796.00	13,510.55	7,500.00	54.65	53.39	8.44	-5,210.87	2,879.20	1,312.97	1,205.82	107.14	12.254	
14,950.00	8,796.00	13,572.84	7,500.00	54.51	53.27	9.22	-5,165.70	2,922.05	1,316.41	1,208.05	108.36	12.149	
15,000.00	8,796.00	13,637.18	7,500.00	54.37	53.14	10.01	-5,115.77	2,962.62	1,320.19	1,210.60	109.59	12.046	
15,050.00	8,796.00	13,703.83	7,500.00	54.22	52.99	10.82	-5,060.88	3,000.40	1,324.32	1,213.47	110.85	11.947	
15,099.11	8,796.00	13,771.81	7,500.00	54.08	52.82	11.62	-5,001.94	3,034.23	1,328.66	1,216.57	112.09	11.853	
15,100.00	8,796.00	13,773.07	7,500.00	54.08	52.82	11.64	-5,000.82	3,034.81	1,328.75	1,216.63	112.11	11.852	
15,200.00	8,796.00	13,923.87	7,500.00	53.80	52.41	13.67	-4,861.37	3,091.64	1,336.81	1,222.19	114.62	11.663	
15,263.03	8,796.00	14,027.38	7,500.00	53.63	52.11	14.57	-4,760.72	3,115.50	1,340.35	1,224.25	116.09	11.545	
15,300.00	8,796.00	14,090.31	7,500.00	53.53	51.93	14.92	-4,698.34	3,123.76	1,341.64	1,224.75	116.89	11.478	
15,400.00	8,796.00	14,209.13	7,500.00	53.27	51.60	15.24	-4,579.75	3,130.97	1,343.30	1,224.81	118.49	11.337	
15,500.00	8,796.00	14,323.23	7,500.00	53.02	51.29	15.35	-4,465.68	3,133.17	1,343.92	1,223.93	119.99	11.200	
15,600.00	8,796.00	14,424.56	7,500.00	52.78	51.03	15.35	-4,364.35	3,132.74	1,343.93	1,222.52	121.40	11.070	
15,700.00	8,796.00	14,524.56	7,500.00	52.54	50.78	15.35	-4,264.35	3,132.30	1,343.92	1,221.11	122.81	10.943	
15,800.00	8,796.00	14,624.56	7,500.00	52.31	50.53	15.35	-4,164.35	3,131.85	1,343.92	1,219.70	124.22	10.819	
15,900.00	8,796.00	14,724.56	7,500.00	52.09	50.30	15.35	-4,064.35	3,131.41	1,343.92	1,218.28	125.63	10.697	
16,000.00	8,796.00	14,824.56	7,500.00	51.88	50.07	15.35	-3,964.35	3,130.97	1,343.91	1,216.86	127.05	10.578	
16,100.00	8,796.00	14,924.56	7,500.00	51.68	49.85	15.35	-3,864.36	3,130.53	1,343.91	1,215.44	128.47	10.461	
16,200.00	8,796.00	15,024.56	7,500.00	51.49	49.64	15.34	-3,764.36	3,130.08	1,343.91	1,214.01	129.90	10.346	
16,300.00	8,796.00	15,124.56	7,500.00	51.30	49.43	15.34	-3,664.36	3,129.64	1,343.90	1,212.58	131.33	10.233	
16,400.00	8,796.00	15,224.56	7,500.00	51.13	49.24	15.34	-3,564.36	3,129.20	1,343.90	1,211.14	132.76	10.123	
16,500.00	8,796.00	15,324.56	7,500.00	50.96	49.05	15.34	-3,464.36	3,128.76	1,343.90	1,209.71	134.19	10.015	
16,600.00	8,796.00	15,424.56	7,500.00	50.80	48.87	15.34	-3,364.36	3,128.31	1,343.89	1,208.27	135.63	9.909	
16,700.00	8,796.00	15,524.56	7,500.00	50.65	48.70	15.34	-3,264.36	3,127.87	1,343.89	1,206.82	137.07	9.805	
16,800.00	8,796.00	15,624.56	7,500.00	50.51	48.54	15.34	-3,164.36	3,127.43	1,343.89	1,205.38	138.51	9.703	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 1H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,900.00	8,796.00	15,724.56	7,500.00	50.38	48.38	15.34	-3,064.36	3,126.99	1,343.88	1,203.93	139.95	9.602	
17,000.00	8,796.00	15,824.56	7,500.00	50.26	48.24	15.34	-2,964.36	3,126.55	1,343.88	1,202.48	141.40	9.504	
17,100.00	8,796.00	15,924.56	7,500.00	50.15	48.10	15.34	-2,864.37	3,126.10	1,343.88	1,201.02	142.85	9.407	
17,200.00	8,796.00	16,024.56	7,500.00	50.05	47.98	15.34	-2,764.37	3,125.66	1,343.87	1,199.57	144.31	9.313	
17,300.00	8,796.00	16,124.56	7,500.00	49.97	47.86	15.34	-2,664.37	3,125.22	1,343.87	1,198.11	145.76	9.220	
17,400.00	8,796.00	16,224.56	7,500.00	49.89	47.75	15.34	-2,564.37	3,124.78	1,343.87	1,196.65	147.22	9.128	
17,500.00	8,796.00	16,324.56	7,500.00	49.82	47.66	15.34	-2,464.37	3,124.33	1,343.86	1,195.19	148.68	9.039	
17,600.00	8,796.00	16,424.56	7,500.00	49.76	47.57	15.34	-2,364.37	3,123.89	1,343.86	1,193.72	150.14	8.951	
17,700.00	8,796.00	16,524.56	7,500.00	49.72	47.49	15.34	-2,264.37	3,123.45	1,343.86	1,192.25	151.60	8.864	
17,800.00	8,796.00	16,624.56	7,500.00	49.68	47.43	15.34	-2,164.37	3,123.01	1,343.85	1,190.78	153.07	8.779	
17,900.00	8,796.00	16,724.56	7,500.00	49.66	47.38	15.34	-2,064.37	3,122.56	1,343.85	1,189.31	154.54	8.696	
18,000.00	8,796.00	16,824.56	7,500.00	49.65	47.33	15.34	-1,964.37	3,122.12	1,343.85	1,187.84	156.01	8.614	
18,100.00	8,796.00	16,924.56	7,500.00	49.65	47.30	15.34	-1,864.38	3,121.68	1,343.85	1,186.36	157.48	8.533	
18,200.00	8,796.00	17,024.56	7,500.00	49.66	47.28	15.33	-1,764.38	3,121.24	1,343.84	1,184.89	158.95	8.454	
18,300.00	8,796.00	17,124.56	7,500.00	49.69	47.28	15.33	-1,664.38	3,120.79	1,343.84	1,183.41	160.43	8.376	
18,400.00	8,796.00	17,224.56	7,500.00	49.73	47.28	15.33	-1,564.38	3,120.35	1,343.84	1,181.93	161.91	8.300	
18,500.00	8,796.00	17,324.56	7,500.00	49.78	47.30	15.33	-1,464.38	3,119.91	1,343.83	1,180.45	163.39	8.225	
18,600.00	8,796.00	17,424.56	7,500.00	49.84	47.34	15.33	-1,364.38	3,119.47	1,343.83	1,178.96	164.87	8.151	
18,700.00	8,796.00	17,524.56	7,500.00	49.92	47.38	15.33	-1,264.38	3,119.03	1,343.83	1,177.48	166.35	8.078	
18,800.00	8,796.00	17,624.56	7,500.00	50.01	47.45	15.33	-1,164.38	3,118.58	1,343.82	1,175.99	167.83	8.007	
18,900.00	8,796.00	17,724.56	7,500.00	50.12	47.52	15.33	-1,064.38	3,118.14	1,343.82	1,174.50	169.32	7.937	
19,000.00	8,796.00	17,824.56	7,500.00	50.24	47.61	15.33	-964.38	3,117.70	1,343.82	1,173.01	170.81	7.868	
19,100.00	8,796.00	17,924.56	7,500.00	50.37	47.72	15.33	-864.38	3,117.26	1,343.81	1,171.52	172.29	7.800	
19,200.00	8,796.00	18,024.56	7,500.00	50.51	47.84	15.33	-764.39	3,116.81	1,343.81	1,170.03	173.78	7.733	
19,300.00	8,796.00	18,124.56	7,500.00	50.67	47.97	15.33	-664.39	3,116.37	1,343.81	1,168.53	175.27	7.667	
19,400.00	8,796.00	18,224.56	7,500.00	50.85	48.12	15.33	-564.39	3,115.93	1,343.80	1,167.04	176.77	7.602	
19,500.00	8,796.00	18,324.56	7,500.00	51.03	48.29	15.33	-464.39	3,115.49	1,343.80	1,165.54	178.26	7.538	
19,600.00	8,796.00	18,424.56	7,500.00	51.23	48.47	15.33	-364.39	3,115.04	1,343.80	1,164.04	179.76	7.476	
19,634.41	8,796.00	18,458.97	7,500.00	51.30	48.53	15.33	-329.98	3,114.89	1,343.80	1,163.52	180.27	7.454	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.34	0.23	19.99	19.99				
100.00	100.00	100.00	100.00	0.28	0.28	89.34	0.23	19.99	19.99	19.44	0.55	36.213	
200.00	200.00	200.00	200.00	0.63	0.63	89.34	0.23	19.99	19.99	18.72	1.27	15.754	
300.00	300.00	300.00	300.00	0.99	0.99	89.34	0.23	19.99	19.99	18.01	1.99	10.066	
400.00	400.00	400.00	400.00	1.35	1.35	89.34	0.23	19.99	19.99	17.29	2.70	7.396	
500.00	500.00	500.00	500.00	1.71	1.71	89.34	0.23	19.99	19.99	16.57	3.42	5.846	
536.26	536.25	536.25	536.25	1.84	1.84	90.00	0.23	19.99	19.99	16.31	3.68	5.433	CC
600.00	599.98	599.98	599.98	2.07	2.07	94.33	0.23	19.99	20.05	15.91	4.14	4.847	ES
700.00	699.84	699.84	699.84	2.43	2.43	108.61	0.23	19.99	21.10	16.25	4.85	4.349	
750.00	749.68	749.68	749.68	2.61	2.60	118.00	0.23	19.99	22.66	17.45	5.21	4.349	
800.00	799.49	799.49	799.49	2.79	2.78	126.83	0.23	19.99	25.01	19.44	5.57	4.491	
900.00	899.11	899.11	899.11	3.15	3.14	139.80	0.23	19.99	31.04	24.75	6.29	4.937	
1,000.00	998.73	998.73	998.73	3.51	3.50	148.28	0.23	19.99	38.12	31.12	7.00	5.443	
1,001.27	1,000.00	1,000.00	1,000.00	3.51	3.50	148.36	0.23	19.99	38.22	31.20	7.01	5.449	
1,100.00	1,098.41	1,098.41	1,098.41	3.87	3.86	132.24	0.23	19.99	44.33	36.61	7.72	5.743	
1,200.00	1,198.13	1,198.13	1,198.13	4.22	4.21	113.32	0.23	19.99	48.32	39.88	8.43	5.729	
1,300.00	1,297.78	1,297.78	1,297.78	4.58	4.57	101.59	0.23	19.99	50.70	41.55	9.14	5.544	
1,400.00	1,397.23	1,397.23	1,397.23	4.93	4.93	99.49	0.23	19.99	52.49	42.63	9.85	5.328	
1,500.00	1,496.35	1,496.35	1,496.35	5.28	5.28	104.57	0.23	19.99	55.17	44.61	10.56	5.226	
1,600.00	1,595.04	1,595.04	1,595.04	5.63	5.64	113.83	0.23	19.99	60.51	49.25	11.26	5.374	
1,700.00	1,693.16	1,693.16	1,693.16	5.98	5.99	124.36	0.23	19.99	70.05	58.09	11.96	5.856	
1,792.67	1,783.48	1,783.48	1,783.48	6.31	6.31	133.33	0.23	19.99	83.27	70.67	12.61	6.605	
1,800.00	1,790.60	1,790.60	1,790.60	6.34	6.34	134.18	0.23	19.99	84.50	71.84	12.66	6.675	
1,900.00	1,887.72	1,890.34	1,890.33	6.70	6.68	143.41	-0.13	21.37	101.62	88.26	13.36	7.607	
2,000.00	1,984.84	1,991.79	1,991.64	7.06	7.03	149.10	-1.40	26.20	117.52	103.47	14.05	8.365	
2,100.00	2,081.96	2,094.51	2,093.99	7.43	7.38	152.73	-3.61	34.62	131.09	116.35	14.74	8.894	
2,200.00	2,179.08	2,198.26	2,196.97	7.80	7.74	155.06	-6.79	46.72	141.79	126.36	15.43	9.191	
2,300.00	2,276.20	2,302.78	2,300.20	8.17	8.10	156.51	-10.95	62.55	149.34	133.23	16.11	9.270	
2,400.00	2,373.32	2,407.80	2,403.25	8.55	8.46	157.29	-16.09	82.11	153.59	136.80	16.79	9.150	
2,500.00	2,470.44	2,511.98	2,504.69	8.93	8.83	157.51	-22.12	105.05	154.52	137.06	17.47	8.847	
2,600.00	2,567.56	2,611.98	2,601.78	9.30	9.19	157.56	-28.20	128.18	154.37	136.18	18.20	8.483	
2,700.00	2,664.68	2,711.98	2,698.88	9.68	9.55	157.60	-34.28	151.31	154.22	135.29	18.94	8.145	
2,800.00	2,761.80	2,811.98	2,795.98	10.07	9.91	157.65	-40.35	174.44	154.07	134.40	19.68	7.830	
2,900.00	2,858.92	2,911.98	2,893.08	10.45	10.27	157.69	-46.43	197.57	153.93	133.50	20.42	7.537	
3,000.00	2,956.04	3,011.98	2,990.18	10.83	10.64	157.74	-52.51	220.70	153.78	132.60	21.17	7.263	
3,100.00	3,053.16	3,111.97	3,087.27	11.22	11.01	157.79	-58.59	243.83	153.63	131.70	21.93	7.007	
3,200.00	3,150.29	3,211.97	3,184.37	11.60	11.38	157.83	-64.67	266.97	153.48	130.80	22.68	6.766	
3,300.00	3,247.41	3,311.97	3,281.47	11.99	11.75	157.88	-70.74	290.10	153.33	129.89	23.44	6.541	
3,400.00	3,344.53	3,411.97	3,378.57	12.38	12.13	157.92	-76.82	313.23	153.18	128.98	24.20	6.329	
3,500.00	3,441.65	3,511.97	3,475.67	12.76	12.50	157.97	-82.90	336.36	153.03	128.06	24.97	6.130	
3,600.00	3,538.77	3,611.97	3,572.76	13.15	12.88	158.02	-88.98	359.49	152.88	127.15	25.73	5.941	
3,700.00	3,635.89	3,711.97	3,669.86	13.54	13.26	158.06	-95.05	382.62	152.73	126.23	26.50	5.764	
3,800.00	3,733.01	3,811.97	3,766.96	13.93	13.63	158.11	-101.13	405.75	152.58	125.32	27.27	5.596	
3,900.00	3,830.13	3,911.97	3,864.06	14.32	14.01	158.16	-107.21	428.88	152.44	124.40	28.04	5.437	
4,000.00	3,927.25	4,011.97	3,961.16	14.71	14.40	158.20	-113.29	452.01	152.29	123.48	28.81	5.286	
4,100.00	4,024.37	4,111.97	4,058.25	15.10	14.78	158.25	-119.37	475.14	152.14	122.55	29.59	5.142	
4,200.00	4,121.49	4,211.97	4,155.35	15.49	15.16	158.30	-125.44	498.27	151.99	121.63	30.36	5.006	
4,300.00	4,218.61	4,311.97	4,252.45	15.88	15.54	158.34	-131.52	521.40	151.84	120.71	31.14	4.877	
4,400.00	4,315.73	4,411.97	4,349.55	16.27	15.93	158.39	-137.60	544.53	151.69	119.78	31.91	4.753	
4,500.00	4,412.85	4,511.97	4,446.64	16.66	16.31	158.44	-143.68	567.66	151.55	118.86	32.69	4.636	
4,600.00	4,509.97	4,611.97	4,543.74	17.05	16.70	158.48	-149.76	590.79	151.40	117.93	33.47	4.523	
4,700.00	4,607.09	4,711.97	4,640.84	17.45	17.08	158.53	-155.83	613.92	151.25	117.00	34.25	4.416	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,704.21	4,811.97	4,737.94	17.84	17.47	158.58	-161.91	637.05	151.10	116.07	35.03	4.314	
4,900.00	4,801.33	4,911.97	4,835.04	18.23	17.85	158.63	-167.99	660.18	150.96	115.14	35.81	4.215	
5,000.00	4,898.45	5,011.97	4,932.13	18.62	18.24	158.67	-174.07	683.31	150.81	114.21	36.59	4.121	
5,100.00	4,995.57	5,111.97	5,029.23	19.02	18.63	158.72	-180.14	706.44	150.66	113.28	37.38	4.031	
5,200.00	5,092.69	5,211.97	5,126.33	19.41	19.02	158.77	-186.22	729.57	150.51	112.35	38.16	3.944	
5,300.00	5,189.81	5,311.97	5,223.43	19.80	19.41	158.82	-192.30	752.70	150.37	111.42	38.94	3.861	
5,400.00	5,286.93	5,411.97	5,320.53	20.20	19.79	158.86	-198.38	775.84	150.22	110.49	39.73	3.781	
5,500.00	5,384.05	5,511.97	5,417.62	20.59	20.18	158.91	-204.46	798.97	150.07	109.56	40.51	3.704	
5,600.00	5,481.17	5,611.97	5,514.72	20.98	20.57	158.96	-210.53	822.10	149.93	108.63	41.30	3.630	
5,700.00	5,578.29	5,711.97	5,611.82	21.38	20.96	159.01	-216.61	845.23	149.78	107.70	42.08	3.559	
5,800.00	5,675.41	5,811.97	5,708.92	21.77	21.35	159.06	-222.69	868.36	149.63	106.76	42.87	3.490	
5,900.00	5,772.53	5,911.97	5,806.02	22.16	21.74	159.10	-228.77	891.49	149.49	105.83	43.66	3.424	
6,000.00	5,869.65	6,011.97	5,903.11	22.56	22.13	159.15	-234.84	914.62	149.34	104.90	44.44	3.360	
6,100.00	5,966.77	6,111.97	6,000.21	22.95	22.52	159.20	-240.92	937.75	149.19	103.96	45.23	3.299	
6,200.00	6,063.89	6,211.97	6,097.31	23.35	22.91	159.25	-247.00	960.88	149.05	103.03	46.02	3.239	
6,300.00	6,161.01	6,311.97	6,194.41	23.74	23.30	159.30	-253.08	984.01	148.90	102.10	46.81	3.181	
6,400.00	6,258.13	6,411.97	6,291.51	24.14	23.70	159.35	-259.16	1,007.14	148.75	101.16	47.59	3.126	
6,500.00	6,355.25	6,511.97	6,388.60	24.53	24.09	159.40	-265.23	1,030.27	148.61	100.23	48.38	3.072	
6,600.00	6,452.37	6,611.97	6,485.70	24.92	24.48	159.45	-271.31	1,053.40	148.46	99.29	49.17	3.019	
6,700.00	6,549.49	6,711.97	6,582.80	25.32	24.87	159.50	-277.39	1,076.53	148.32	98.36	49.96	2.969	
6,800.00	6,646.61	6,811.97	6,679.90	25.71	25.26	159.54	-283.47	1,099.66	148.17	97.42	50.75	2.920	
6,900.00	6,743.73	6,911.97	6,776.99	26.11	25.65	159.59	-289.55	1,122.79	148.03	96.49	51.54	2.872	
7,000.00	6,840.85	7,011.97	6,874.09	26.50	26.05	159.64	-295.62	1,145.92	147.88	95.55	52.33	2.826	
7,100.00	6,937.97	7,111.97	6,971.19	26.90	26.44	159.69	-301.70	1,169.05	147.74	94.62	53.12	2.781	
7,200.00	7,035.09	7,211.97	7,068.29	27.29	26.83	159.74	-307.78	1,192.18	147.59	93.68	53.91	2.738	
7,300.00	7,132.21	7,311.97	7,165.39	27.69	27.22	159.79	-313.86	1,215.31	147.45	92.75	54.70	2.696	
7,400.00	7,229.33	7,411.97	7,262.48	28.08	27.62	159.84	-319.93	1,238.44	147.30	91.81	55.49	2.655	
7,500.00	7,326.45	7,511.97	7,359.58	28.48	28.01	159.89	-326.01	1,261.57	147.16	90.88	56.28	2.615	
7,600.00	7,423.57	7,611.97	7,456.68	28.87	28.40	159.94	-332.09	1,284.71	147.01	89.94	57.07	2.576	
7,700.00	7,520.69	7,711.97	7,553.78	29.27	28.80	159.99	-338.17	1,307.84	146.87	89.01	57.86	2.538	
7,700.27	7,520.96	7,712.24	7,554.04	29.27	28.80	159.99	-338.18	1,307.90	146.87	89.00	57.86	2.538	
7,800.00	7,618.21	7,811.94	7,650.85	29.66	29.19	159.80	-344.24	1,330.96	145.09	86.44	58.65	2.474	
7,900.00	7,716.43	7,911.45	7,747.47	30.04	29.58	159.05	-350.36	1,353.97	140.07	80.62	59.44	2.356	
8,000.00	7,815.25	8,005.78	7,838.11	30.41	29.95	153.94	-365.18	1,375.01	133.99	73.68	60.31	2.222	
8,066.77	7,881.51	8,065.55	7,893.95	30.66	30.18	146.90	-382.39	1,387.48	132.10	71.35	60.75	2.174	SF
8,100.00	7,914.55	8,093.88	7,919.76	30.78	30.29	142.61	-392.60	1,393.11	132.76	71.94	60.81	2.183	
8,200.00	8,014.19	8,172.36	7,988.44	31.13	30.57	128.76	-427.55	1,407.62	145.21	85.57	59.63	2.435	
8,300.00	8,114.07	8,239.98	8,043.53	31.47	30.80	116.83	-465.11	1,418.68	176.91	120.46	56.45	3.134	
8,389.47	8,203.52	8,291.53	8,082.48	31.77	30.96	-145.62	-498.02	1,426.11	220.22	167.08	53.14	4.144	
8,400.00	8,214.05	8,300.00	8,088.60	31.80	30.99	32.99	-503.76	1,427.25	226.04	172.92	53.12	4.255	
8,450.00	8,263.94	8,323.69	8,105.28	31.95	31.06	28.34	-520.31	1,430.29	253.64	202.58	51.06	4.967	
8,500.00	8,313.37	8,350.00	8,123.02	32.11	31.14	24.34	-539.48	1,433.42	280.95	231.54	49.41	5.686	
8,550.00	8,361.96	8,376.76	8,140.18	32.27	31.22	21.13	-559.80	1,436.34	307.51	259.63	47.88	6.423	
8,600.00	8,409.35	8,400.00	8,154.32	32.42	31.28	18.75	-578.09	1,438.66	333.04	287.02	46.02	7.237	
8,650.00	8,455.17	8,429.79	8,171.39	32.57	31.36	16.55	-602.36	1,441.32	357.25	312.38	44.87	7.962	
8,700.00	8,499.07	8,450.00	8,182.27	32.71	31.42	15.11	-619.32	1,442.93	380.13	337.31	42.82	8.878	
8,750.00	8,540.73	8,482.80	8,198.67	32.85	31.50	13.60	-647.63	1,445.19	401.28	359.31	41.97	9.560	
8,800.00	8,579.82	8,500.00	8,206.64	32.99	31.54	12.72	-662.83	1,446.19	421.04	381.25	39.80	10.580	
8,850.00	8,616.04	8,535.81	8,221.80	33.11	31.63	11.69	-695.23	1,447.90	438.71	399.50	39.21	11.188	
8,900.00	8,649.13	8,562.31	8,231.74	33.24	31.69	11.01	-719.77	1,448.82	454.76	416.86	37.91	11.997	
8,950.00	8,678.82	8,600.00	8,243.96	33.36	31.78	10.40	-755.41	1,449.63	469.20	431.76	37.44	12.532	
9,000.00	8,704.90	8,615.29	8,248.27	33.47	31.81	10.08	-770.07	1,449.78	481.25	445.75	35.50	13.558	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,050.00	8,727.16	8,647.86	8,256.44	33.58	31.88	9.76	-801.60	1,449.93	491.38	456.60	34.78	14.130	
9,100.00	8,745.44	8,682.52	8,264.13	33.70	31.96	9.54	-835.39	1,450.08	498.77	464.56	34.21	14.578	
9,139.47	8,756.95	8,700.00	8,267.63	33.78	32.00	9.44	-852.52	1,450.15	502.78	469.47	33.31	15.092	
9,200.00	8,771.07	8,752.05	8,276.47	33.92	32.12	9.33	-903.81	1,450.38	506.76	473.51	33.24	15.243	
9,300.00	8,787.52	8,821.48	8,284.62	34.14	32.28	9.24	-972.75	1,450.68	511.46	478.91	32.54	15.717	
9,400.00	8,795.32	8,900.00	8,288.79	34.37	32.46	9.19	-1,051.14	1,451.03	513.64	481.24	32.39	15.857	
9,409.62	8,795.61	8,900.00	8,288.79	34.39	32.46	9.19	-1,051.14	1,451.03	513.59	481.40	32.18	15.959	
9,439.47	8,796.00	8,918.19	8,288.99	34.46	32.50	9.19	-1,069.33	1,451.11	513.61	481.54	32.07	16.015	
9,461.51	8,796.00	8,938.69	8,289.00	34.51	32.55	9.19	-1,089.83	1,451.20	513.60	481.43	32.16	15.968	
9,500.00	8,796.00	8,977.18	8,289.00	34.60	32.64	9.19	-1,128.32	1,451.37	513.60	481.21	32.39	15.857	
9,600.00	8,796.00	9,077.18	8,289.00	34.85	32.88	9.19	-1,228.32	1,451.81	513.60	480.58	33.02	15.555	
9,700.00	8,796.00	9,177.18	8,289.00	35.10	33.14	9.19	-1,328.32	1,452.25	513.60	479.89	33.71	15.236	
9,800.00	8,796.00	9,277.18	8,289.00	35.37	33.42	9.19	-1,428.32	1,452.70	513.60	479.14	34.46	14.906	
9,900.00	8,796.00	9,377.18	8,289.00	35.65	33.70	9.19	-1,528.32	1,453.14	513.60	478.34	35.26	14.567	
10,000.00	8,796.00	9,477.18	8,289.00	35.94	34.00	9.19	-1,628.32	1,453.58	513.60	477.49	36.11	14.223	
10,100.00	8,796.00	9,577.18	8,289.00	36.24	34.31	9.19	-1,728.32	1,454.03	513.60	476.59	37.01	13.878	
10,200.00	8,796.00	9,677.18	8,289.00	36.55	34.63	9.19	-1,828.31	1,454.47	513.60	475.64	37.95	13.533	
10,300.00	8,796.00	9,777.18	8,289.00	36.88	34.96	9.19	-1,928.31	1,454.91	513.59	474.66	38.93	13.191	
10,400.00	8,796.00	9,877.18	8,289.00	37.22	35.31	9.19	-2,028.31	1,455.36	513.59	473.64	39.95	12.854	
10,500.00	8,796.00	9,977.18	8,289.00	37.57	35.67	9.19	-2,128.31	1,455.80	513.59	472.58	41.01	12.524	
10,600.00	8,796.00	10,077.18	8,289.00	37.93	36.04	9.19	-2,228.31	1,456.24	513.59	471.50	42.10	12.201	
10,700.00	8,796.00	10,177.18	8,289.00	38.29	36.42	9.19	-2,328.31	1,456.68	513.59	470.38	43.21	11.885	
10,800.00	8,796.00	10,277.18	8,289.00	38.68	36.81	9.19	-2,428.31	1,457.13	513.59	469.24	44.36	11.579	
10,900.00	8,796.00	10,377.18	8,289.00	39.07	37.21	9.19	-2,528.31	1,457.57	513.59	468.07	45.52	11.282	
11,000.00	8,796.00	10,477.18	8,289.00	39.47	37.63	9.19	-2,628.31	1,458.01	513.59	466.88	46.72	10.994	
11,100.00	8,796.00	10,577.18	8,289.00	39.88	38.05	9.19	-2,728.31	1,458.46	513.59	465.66	47.93	10.715	
11,200.00	8,796.00	10,677.18	8,289.00	40.30	38.48	9.19	-2,828.30	1,458.90	513.59	464.43	49.17	10.446	
11,300.00	8,796.00	10,777.18	8,289.00	40.73	38.92	9.19	-2,928.30	1,459.34	513.59	463.17	50.42	10.187	
11,400.00	8,796.00	10,877.18	8,289.00	41.16	39.37	9.19	-3,028.30	1,459.79	513.59	461.90	51.69	9.937	
11,500.00	8,796.00	10,977.18	8,289.00	41.61	39.84	9.19	-3,128.30	1,460.23	513.59	460.62	52.97	9.695	
11,600.00	8,796.00	11,077.18	8,289.00	42.07	40.30	9.19	-3,228.30	1,460.67	513.59	459.32	54.27	9.463	
11,700.00	8,796.00	11,177.18	8,289.00	42.53	40.78	9.19	-3,328.30	1,461.11	513.59	458.00	55.59	9.239	
11,800.00	8,796.00	11,277.18	8,289.00	43.00	41.27	9.19	-3,428.30	1,461.56	513.59	456.67	56.91	9.024	
11,900.00	8,796.00	11,377.18	8,289.00	43.48	41.76	9.19	-3,528.30	1,462.00	513.59	455.34	58.25	8.816	
12,000.00	8,796.00	11,477.18	8,289.00	43.97	42.26	9.19	-3,628.30	1,462.44	513.59	453.98	59.60	8.617	
12,100.00	8,796.00	11,577.18	8,289.00	44.46	42.77	9.19	-3,728.30	1,462.89	513.59	452.62	60.97	8.424	
12,200.00	8,796.00	11,677.18	8,289.00	44.97	43.29	9.19	-3,828.29	1,463.33	513.59	451.25	62.34	8.239	
12,300.00	8,796.00	11,777.18	8,289.00	45.47	43.81	9.19	-3,928.29	1,463.77	513.59	449.87	63.72	8.061	
12,400.00	8,796.00	11,877.18	8,289.00	45.99	44.34	9.19	-4,028.29	1,464.22	513.59	448.48	65.10	7.889	
12,500.00	8,796.00	11,977.18	8,289.00	46.51	44.88	9.19	-4,128.29	1,464.66	513.59	447.09	66.50	7.723	
12,600.00	8,796.00	12,077.18	8,289.00	47.04	45.42	9.19	-4,228.29	1,465.10	513.59	445.68	67.90	7.564	
12,700.00	8,796.00	12,177.18	8,289.00	47.58	45.97	9.19	-4,328.29	1,465.54	513.59	444.27	69.31	7.410	
12,800.00	8,796.00	12,277.18	8,289.00	48.12	46.53	9.19	-4,428.29	1,465.99	513.59	442.86	70.73	7.261	
12,900.00	8,796.00	12,377.18	8,289.00	48.66	47.09	9.19	-4,528.29	1,466.43	513.59	441.43	72.15	7.118	
13,000.00	8,796.00	12,477.18	8,289.00	49.22	47.65	9.19	-4,628.29	1,466.87	513.59	440.00	73.58	6.980	
13,100.00	8,796.00	12,577.18	8,289.00	49.77	48.22	9.19	-4,728.29	1,467.32	513.59	438.57	75.02	6.846	
13,200.00	8,796.00	12,677.18	8,289.00	50.34	48.80	9.19	-4,828.28	1,467.76	513.59	437.13	76.46	6.717	
13,209.11	8,796.00	12,686.29	8,289.00	50.39	48.85	9.19	-4,837.39	1,467.80	513.59	437.00	76.59	6.706	
13,250.00	8,796.00	12,733.20	8,289.00	50.62	49.13	9.18	-4,884.26	1,469.65	513.58	436.24	77.34	6.641	
13,300.00	8,796.00	12,790.95	8,289.00	50.92	49.48	9.10	-4,941.53	1,476.87	513.47	435.16	78.31	6.557	
13,350.00	8,796.00	12,848.57	8,289.00	51.22	49.83	8.95	-4,997.74	1,489.45	513.26	433.94	79.32	6.471	
13,400.00	8,796.00	12,905.99	8,289.00	51.52	50.19	8.73	-5,052.31	1,507.22	512.95	432.60	80.36	6.383	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,450.00	8,796.00	12,963.12	8,289.00	51.83	50.55	8.44	-5,104.72	1,529.93	512.56	431.14	81.42	6.295	
13,500.00	8,796.00	13,019.90	8,289.00	52.14	50.91	8.07	-5,154.46	1,557.28	512.10	429.60	82.50	6.207	
13,550.00	8,796.00	13,076.27	8,289.00	52.45	51.26	7.65	-5,201.10	1,588.89	511.58	427.99	83.59	6.120	
13,600.00	8,796.00	13,132.17	8,289.00	52.75	51.59	7.16	-5,244.27	1,624.37	511.02	426.33	84.69	6.034	
13,650.00	8,796.00	13,187.55	8,289.00	53.04	51.92	6.63	-5,283.65	1,663.28	510.44	424.66	85.78	5.950	
13,700.00	8,796.00	13,242.37	8,289.00	53.33	52.22	6.04	-5,319.00	1,705.16	509.86	423.00	86.86	5.870	
13,750.00	8,796.00	13,296.61	8,289.00	53.61	52.51	5.40	-5,350.11	1,749.57	509.29	421.37	87.92	5.792	
13,800.00	8,796.00	13,350.24	8,289.00	53.87	52.77	4.73	-5,376.86	1,796.03	508.76	419.80	88.95	5.719	
13,850.00	8,796.00	13,403.25	8,289.00	54.12	53.01	4.02	-5,399.19	1,844.09	508.27	418.33	89.95	5.651	
13,900.00	8,796.00	13,455.64	8,289.00	54.35	53.22	3.29	-5,417.06	1,893.32	507.85	416.96	90.89	5.588	
13,950.00	8,796.00	13,507.39	8,289.00	54.56	53.41	2.53	-5,430.49	1,943.28	507.50	415.73	91.78	5.530	
14,000.00	8,796.00	13,558.53	8,289.00	54.76	53.57	1.76	-5,439.54	1,993.59	507.24	414.64	92.60	5.478	
14,050.00	8,796.00	13,609.05	8,289.00	54.93	53.71	0.97	-5,444.30	2,043.88	507.07	413.71	93.36	5.431	
14,100.00	8,796.00	13,658.97	8,289.00	55.08	53.82	0.19	-5,444.89	2,093.79	507.00	412.95	94.05	5.391	
14,111.71	8,796.00	13,670.58	8,289.00	55.11	53.84	0.00	-5,444.44	2,105.38	507.00	412.80	94.20	5.382	
14,150.00	8,796.00	13,708.32	8,289.00	55.20	53.90	-0.60	-5,441.45	2,143.00	507.03	412.36	94.67	5.356	
14,200.00	8,796.00	13,757.11	8,289.00	55.31	53.96	-1.39	-5,434.14	2,191.23	507.15	411.93	95.22	5.326	
14,250.00	8,796.00	13,805.37	8,289.00	55.39	54.00	-2.16	-5,423.14	2,238.20	507.37	411.66	95.71	5.301	
14,300.00	8,796.00	13,853.13	8,289.00	55.45	54.02	-2.92	-5,408.61	2,283.68	507.67	411.53	96.14	5.280	
14,350.00	8,796.00	13,900.00	8,289.00	55.48	54.01	-3.66	-5,390.93	2,327.08	508.06	411.54	96.51	5.264	
14,400.00	8,796.00	13,947.22	8,289.00	55.49	53.99	-4.38	-5,369.79	2,369.29	508.51	411.63	96.88	5.249	
14,450.00	8,796.00	13,993.62	8,289.00	55.48	53.95	-5.07	-5,345.89	2,409.05	509.02	411.81	97.21	5.236	
14,500.00	8,796.00	14,039.62	8,289.00	55.45	53.89	-5.73	-5,319.27	2,446.55	509.58	412.05	97.53	5.225	
14,550.00	8,796.00	14,085.26	8,289.00	55.40	53.82	-6.35	-5,290.14	2,481.67	510.16	412.32	97.84	5.214	
14,600.00	8,796.00	14,130.56	8,289.00	55.33	53.74	-6.93	-5,258.70	2,514.27	510.77	412.61	98.17	5.203	
14,650.00	8,796.00	14,175.56	8,289.00	55.25	53.64	-7.48	-5,225.16	2,544.25	511.39	412.87	98.52	5.191	
14,700.00	8,796.00	14,220.28	8,289.00	55.15	53.54	-7.98	-5,189.71	2,571.50	511.99	413.10	98.89	5.177	
14,750.00	8,796.00	14,264.75	8,289.00	55.04	53.43	-8.43	-5,152.58	2,595.95	512.57	413.26	99.31	5.161	
14,800.00	8,796.00	14,309.00	8,289.00	54.92	53.31	-8.83	-5,113.95	2,617.52	513.11	413.35	99.77	5.143	
14,850.00	8,796.00	14,353.06	8,289.00	54.79	53.19	-9.19	-5,074.04	2,636.15	513.61	413.34	100.28	5.122	
14,900.00	8,796.00	14,400.00	8,289.00	54.65	53.05	-9.51	-5,030.15	2,652.76	514.06	413.23	100.83	5.098	
14,950.00	8,796.00	14,440.72	8,289.00	54.51	52.93	-9.74	-4,991.13	2,664.40	514.43	412.98	101.45	5.071	
15,000.00	8,796.00	14,484.37	8,289.00	54.37	52.80	-9.94	-4,948.55	2,673.94	514.73	412.62	102.11	5.041	
15,050.00	8,796.00	14,527.94	8,289.00	54.22	52.67	-10.08	-4,905.47	2,680.40	514.95	412.12	102.82	5.008	
15,099.11	8,796.00	14,574.71	8,289.00	54.08	52.54	-10.04	-4,858.92	2,685.01	514.90	411.32	103.57	4.971	
15,100.00	8,796.00	14,575.57	8,289.00	54.08	52.53	-10.04	-4,858.07	2,685.08	514.89	411.30	103.59	4.971	
15,200.00	8,796.00	14,671.39	8,289.00	53.80	52.26	-9.73	-4,762.45	2,691.14	514.41	409.17	105.24	4.888	
15,263.03	8,796.00	14,731.86	8,289.00	53.63	52.09	-9.61	-4,702.00	2,692.66	514.21	407.96	106.25	4.839	
15,294.45	8,796.00	14,762.02	8,289.00	53.55	52.01	-9.58	-4,671.84	2,692.75	514.17	407.43	106.74	4.817	
15,300.00	8,796.00	14,767.57	8,289.00	53.53	51.99	-9.58	-4,666.30	2,692.72	514.17	407.35	106.82	4.813	
15,400.00	8,796.00	14,867.57	8,289.00	53.27	51.73	-9.58	-4,566.30	2,692.29	514.18	405.90	108.28	4.749	
15,500.00	8,796.00	14,967.57	8,289.00	53.02	51.47	-9.58	-4,466.30	2,691.85	514.18	404.44	109.74	4.685	
15,600.00	8,796.00	15,067.57	8,289.00	52.78	51.22	-9.59	-4,366.30	2,691.41	514.18	402.97	111.21	4.624	
15,700.00	8,796.00	15,167.57	8,289.00	52.54	50.97	-9.59	-4,266.30	2,690.97	514.18	401.51	112.67	4.563	
15,800.00	8,796.00	15,267.57	8,289.00	52.31	50.74	-9.59	-4,166.30	2,690.53	514.18	400.04	114.14	4.505	
15,900.00	8,796.00	15,367.57	8,289.00	52.09	50.51	-9.59	-4,066.30	2,690.09	514.18	398.57	115.62	4.447	
16,000.00	8,796.00	15,467.57	8,289.00	51.88	50.30	-9.59	-3,966.30	2,689.65	514.19	397.09	117.09	4.391	
16,100.00	8,796.00	15,567.57	8,289.00	51.68	50.09	-9.59	-3,866.30	2,689.21	514.19	395.62	118.57	4.337	
16,200.00	8,796.00	15,667.57	8,289.00	51.49	49.89	-9.59	-3,766.30	2,688.78	514.19	394.14	120.05	4.283	
16,300.00	8,796.00	15,767.57	8,289.00	51.30	49.70	-9.59	-3,666.31	2,688.34	514.19	392.66	121.53	4.231	
16,400.00	8,796.00	15,867.57	8,289.00	51.13	49.52	-9.59	-3,566.31	2,687.90	514.19	391.18	123.01	4.180	
16,500.00	8,796.00	15,967.57	8,289.00	50.96	49.34	-9.59	-3,466.31	2,687.46	514.19	389.69	124.50	4.130	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	8,796.00	16,067.57	8,289.00	50.80	49.18	-9.60	-3,366.31	2,687.02	514.19	388.21	125.99	4.081	
16,700.00	8,796.00	16,167.57	8,289.00	50.65	49.03	-9.60	-3,266.31	2,686.58	514.20	386.72	127.48	4.034	
16,800.00	8,796.00	16,267.57	8,289.00	50.51	48.89	-9.60	-3,166.31	2,686.14	514.20	385.23	128.97	3.987	
16,900.00	8,796.00	16,367.57	8,289.00	50.38	48.75	-9.60	-3,066.31	2,685.70	514.20	383.74	130.46	3.941	
17,000.00	8,796.00	16,467.57	8,289.00	50.26	48.63	-9.60	-2,966.31	2,685.27	514.20	382.24	131.96	3.897	
17,100.00	8,796.00	16,567.57	8,289.00	50.15	48.51	-9.60	-2,866.31	2,684.83	514.20	380.75	133.45	3.853	
17,200.00	8,796.00	16,667.57	8,289.00	50.05	48.41	-9.60	-2,766.31	2,684.39	514.20	379.25	134.95	3.810	
17,300.00	8,796.00	16,767.57	8,289.00	49.97	48.32	-9.60	-2,666.31	2,683.95	514.20	377.75	136.45	3.768	
17,400.00	8,796.00	16,867.57	8,289.00	49.89	48.24	-9.60	-2,566.32	2,683.51	514.21	376.25	137.95	3.727	
17,500.00	8,796.00	16,967.57	8,289.00	49.82	48.17	-9.60	-2,466.32	2,683.07	514.21	374.75	139.45	3.687	
17,600.00	8,796.00	17,067.57	8,289.00	49.76	48.11	-9.61	-2,366.32	2,682.63	514.21	373.25	140.96	3.648	
17,700.00	8,796.00	17,167.57	8,289.00	49.72	48.06	-9.61	-2,266.32	2,682.19	514.21	371.75	142.46	3.609	
17,800.00	8,796.00	17,267.57	8,289.00	49.68	48.02	-9.61	-2,166.32	2,681.76	514.21	370.24	143.97	3.572	
17,900.00	8,796.00	17,367.57	8,289.00	49.66	48.00	-9.61	-2,066.32	2,681.32	514.21	368.73	145.48	3.535	
18,000.00	8,796.00	17,467.57	8,289.00	49.65	47.99	-9.61	-1,966.32	2,680.88	514.22	367.23	146.99	3.498	
18,100.00	8,796.00	17,567.57	8,289.00	49.65	47.99	-9.61	-1,866.32	2,680.44	514.22	365.72	148.50	3.463	
18,200.00	8,796.00	17,667.57	8,289.00	49.66	48.00	-9.61	-1,766.32	2,680.00	514.22	364.21	150.01	3.428	
18,300.00	8,796.00	17,767.57	8,289.00	49.69	48.03	-9.61	-1,666.32	2,679.56	514.22	362.70	151.52	3.394	
18,400.00	8,796.00	17,867.57	8,289.00	49.73	48.07	-9.61	-1,566.33	2,679.12	514.22	361.18	153.04	3.360	
18,500.00	8,796.00	17,967.57	8,289.00	49.78	48.12	-9.61	-1,466.33	2,678.68	514.22	359.67	154.55	3.327	
18,600.00	8,796.00	18,067.57	8,289.00	49.84	48.19	-9.62	-1,366.33	2,678.25	514.22	358.16	156.07	3.295	
18,700.00	8,796.00	18,167.57	8,289.00	49.92	48.26	-9.62	-1,266.33	2,677.81	514.23	356.64	157.58	3.263	
18,800.00	8,796.00	18,267.57	8,289.00	50.01	48.36	-9.62	-1,166.33	2,677.37	514.23	355.13	159.10	3.232	
18,900.00	8,796.00	18,367.57	8,289.00	50.12	48.46	-9.62	-1,066.33	2,676.93	514.23	353.61	160.62	3.202	
19,000.00	8,796.00	18,467.57	8,289.00	50.24	48.58	-9.62	-966.33	2,676.49	514.23	352.09	162.14	3.172	
19,100.00	8,796.00	18,567.57	8,289.00	50.37	48.72	-9.62	-866.33	2,676.05	514.23	350.57	163.66	3.142	
19,200.00	8,796.00	18,667.57	8,289.00	50.51	48.87	-9.62	-766.33	2,675.61	514.23	349.05	165.18	3.113	
19,300.00	8,796.00	18,767.57	8,289.00	50.67	49.03	-9.62	-666.33	2,675.17	514.23	347.53	166.70	3.085	
19,400.00	8,796.00	18,867.57	8,289.00	50.85	49.21	-9.62	-566.34	2,674.74	514.24	346.01	168.23	3.057	
19,500.00	8,796.00	18,967.57	8,289.00	51.03	49.39	-9.62	-466.34	2,674.30	514.24	344.49	169.75	3.029	
19,600.00	8,796.00	19,067.57	8,289.00	51.23	49.64	-9.63	-366.34	2,673.86	514.24	343.22	171.02	3.007	
19,603.41	8,796.00	19,070.98	8,289.00	51.24	49.66	-9.63	-362.93	2,673.84	514.24	343.18	171.06	3.006	
19,634.41	8,796.00	19,101.33	8,289.00	51.30	50.05	-9.63	-332.57	2,673.71	514.24	342.82	171.42	3.000	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	-90.64	-0.45	-39.99	39.99				
100.00	100.00	101.00	101.00	0.28	0.28	-90.64	-0.45	-39.99	39.99	39.44	0.56	71.977	
200.00	200.00	201.00	201.00	0.63	0.64	-90.64	-0.45	-39.99	39.99	38.72	1.27	31.426	
300.00	300.00	301.00	301.00	0.99	1.00	-90.64	-0.45	-39.99	39.99	38.00	1.99	20.102	
400.00	400.00	401.00	401.00	1.35	1.36	-90.64	-0.45	-39.99	39.99	37.29	2.71	14.777	
500.00	500.00	501.00	501.00	1.71	1.71	-90.64	-0.45	-39.99	39.99	36.57	3.42	11.682	CC
500.49	500.49	501.49	501.49	1.71	1.72	-90.64	-0.45	-39.99	39.99	36.57	3.43	11.670	
600.00	599.98	600.98	600.98	2.07	2.07	-93.14	-0.45	-39.99	40.05	35.91	4.14	9.675	
700.00	699.84	700.84	700.84	2.43	2.43	-100.50	-0.45	-39.99	40.67	35.82	4.85	8.378	ES
750.00	749.68	750.68	750.68	2.61	2.61	-105.79	-0.45	-39.99	41.57	36.36	5.21	7.975	
800.00	799.49	800.49	800.49	2.79	2.79	-111.37	-0.45	-39.99	42.96	37.39	5.57	7.713	
900.00	899.11	900.11	900.11	3.15	3.14	-121.32	-0.45	-39.99	46.86	40.57	6.29	7.454	
1,000.00	998.73	999.73	999.73	3.51	3.50	-129.54	-0.45	-39.99	51.94	44.93	7.00	7.415	
1,001.27	1,000.00	1,001.00	1,001.00	3.51	3.51	-129.64	-0.45	-39.99	52.01	44.99	7.01	7.416	
1,100.00	1,098.41	1,099.41	1,099.41	3.87	3.86	-157.55	-0.45	-39.99	58.24	50.52	7.72	7.543	
1,200.00	1,198.13	1,199.13	1,199.13	4.22	4.22	174.77	-0.45	-39.99	65.53	57.10	8.44	7.768	
1,300.00	1,297.78	1,298.78	1,298.78	4.58	4.57	155.54	-0.45	-39.99	73.57	64.42	9.15	8.045	
1,400.00	1,397.23	1,398.23	1,398.23	4.93	4.93	145.74	-0.45	-39.99	82.63	72.78	9.85	8.388	
1,500.00	1,496.35	1,497.35	1,497.35	5.28	5.29	142.12	-0.45	-39.99	93.25	82.69	10.55	8.835	
1,600.00	1,595.04	1,596.04	1,596.04	5.63	5.64	141.98	-0.45	-39.99	106.01	94.75	11.26	9.418	
1,700.00	1,693.16	1,694.16	1,694.16	5.98	5.99	143.65	-0.45	-39.99	121.44	109.49	11.96	10.157	
1,792.67	1,783.48	1,784.48	1,784.48	6.31	6.31	145.92	-0.45	-39.99	138.49	125.89	12.60	10.988	
1,800.00	1,790.60	1,791.60	1,791.60	6.34	6.34	146.32	-0.45	-39.99	139.96	127.30	12.66	11.058	
1,900.00	1,887.72	1,888.72	1,888.72	6.70	6.69	151.01	-0.45	-39.99	160.48	147.13	13.35	12.018	
2,000.00	1,984.84	1,985.84	1,985.84	7.06	7.04	154.63	-0.45	-39.99	181.81	167.76	14.05	12.938	
2,100.00	2,081.96	2,088.73	2,088.72	7.43	7.40	157.49	-0.84	-38.67	202.52	187.75	14.77	13.710	
2,200.00	2,179.08	2,194.09	2,193.95	7.80	7.75	159.48	-2.32	-33.69	220.29	204.81	15.48	14.228	
2,300.00	2,276.20	2,300.83	2,300.28	8.17	8.12	160.84	-4.94	-24.86	234.84	218.65	16.19	14.504	
2,400.00	2,373.32	2,408.66	2,407.27	8.55	8.48	161.73	-8.73	-12.10	245.98	229.09	16.89	14.560	
2,500.00	2,470.44	2,517.29	2,514.48	8.93	8.86	162.25	-13.71	4.66	253.61	236.02	17.59	14.420	
2,600.00	2,567.56	2,626.42	2,621.44	9.30	9.24	162.44	-19.87	25.40	257.67	239.40	18.27	14.103	
2,700.00	2,664.68	2,730.62	2,722.85	9.68	9.61	162.38	-26.68	48.35	258.66	239.69	18.97	13.632	
2,800.00	2,761.80	2,830.61	2,820.08	10.07	9.96	162.29	-33.33	70.76	259.29	239.58	19.71	13.157	
2,900.00	2,858.92	2,930.61	2,917.30	10.45	10.32	162.20	-39.98	93.16	259.91	239.47	20.45	12.712	
3,000.00	2,956.04	3,030.61	3,014.53	10.83	10.68	162.11	-46.64	115.57	260.54	239.35	21.19	12.297	
3,100.00	3,053.16	3,130.61	3,111.76	11.22	11.04	162.02	-53.29	137.97	261.17	239.23	21.93	11.907	
3,200.00	3,150.29	3,230.60	3,208.99	11.60	11.41	161.94	-59.94	160.38	261.80	239.11	22.68	11.542	
3,300.00	3,247.41	3,330.60	3,306.21	11.99	11.77	161.85	-66.59	182.78	262.42	238.99	23.44	11.198	
3,400.00	3,344.53	3,430.60	3,403.44	12.38	12.14	161.76	-73.24	205.18	263.05	238.86	24.19	10.874	
3,500.00	3,441.65	3,530.60	3,500.67	12.76	12.51	161.68	-79.90	227.59	263.68	238.73	24.95	10.569	
3,600.00	3,538.77	3,630.59	3,597.90	13.15	12.88	161.59	-86.55	249.99	264.31	238.61	25.71	10.281	
3,700.00	3,635.89	3,730.59	3,695.13	13.54	13.25	161.51	-93.20	272.40	264.95	238.47	26.47	10.009	
3,800.00	3,733.01	3,830.59	3,792.35	13.93	13.63	161.42	-99.85	294.80	265.58	238.34	27.24	9.751	
3,900.00	3,830.13	3,930.58	3,889.58	14.32	14.00	161.34	-106.50	317.21	266.21	238.21	28.00	9.507	
4,000.00	3,927.25	4,030.58	3,986.81	14.71	14.38	161.25	-113.16	339.61	266.84	238.07	28.77	9.275	
4,100.00	4,024.37	4,130.58	4,084.04	15.10	14.76	161.17	-119.81	362.02	267.48	237.94	29.54	9.055	
4,200.00	4,121.49	4,230.58	4,181.26	15.49	15.14	161.09	-126.46	384.42	268.11	237.80	30.31	8.845	
4,300.00	4,218.61	4,330.57	4,278.49	15.88	15.51	161.00	-133.11	406.83	268.74	237.66	31.08	8.646	
4,400.00	4,315.73	4,430.57	4,375.72	16.27	15.89	160.92	-139.76	429.23	269.38	237.52	31.86	8.456	
4,500.00	4,412.85	4,530.57	4,472.95	16.66	16.27	160.84	-146.42	451.64	270.02	237.38	32.63	8.275	
4,600.00	4,509.97	4,630.56	4,570.17	17.05	16.66	160.76	-153.07	474.04	270.65	237.24	33.41	8.102	
4,700.00	4,607.09	4,730.56	4,667.40	17.45	17.04	160.68	-159.72	496.45	271.29	237.11	34.18	7.936	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,704.21	4,830.56	4,764.63	17.84	17.42	160.59	-166.37	518.85	271.93	236.96	34.96	7.778	
4,900.00	4,801.33	4,930.56	4,861.86	18.23	17.80	160.51	-173.03	541.26	272.56	236.82	35.74	7.626	
5,000.00	4,898.45	5,030.55	4,959.09	18.62	18.19	160.43	-179.68	563.66	273.20	236.68	36.52	7.481	
5,100.00	4,995.57	5,130.55	5,056.31	19.02	18.57	160.35	-186.33	586.07	273.84	236.54	37.30	7.342	
5,200.00	5,092.69	5,230.55	5,153.54	19.41	18.96	160.27	-192.98	608.47	274.48	236.40	38.08	7.208	
5,300.00	5,189.81	5,330.55	5,250.77	19.80	19.34	160.19	-199.63	630.87	275.12	236.26	38.86	7.080	
5,400.00	5,286.93	5,430.54	5,348.00	20.20	19.73	160.12	-206.29	653.28	275.76	236.12	39.64	6.956	
5,500.00	5,384.05	5,530.54	5,445.22	20.59	20.11	160.04	-212.94	675.68	276.40	235.98	40.43	6.837	
5,600.00	5,481.17	5,630.54	5,542.45	20.98	20.50	159.96	-219.59	698.09	277.04	235.83	41.21	6.723	
5,700.00	5,578.29	5,730.53	5,639.68	21.38	20.88	159.88	-226.24	720.49	277.69	235.69	41.99	6.613	
5,800.00	5,675.41	5,830.53	5,736.91	21.77	21.27	159.80	-232.89	742.90	278.33	235.55	42.78	6.506	
5,900.00	5,772.53	5,930.53	5,834.13	22.16	21.66	159.73	-239.55	765.30	278.97	235.41	43.56	6.404	
6,000.00	5,869.65	6,030.53	5,931.36	22.56	22.05	159.65	-246.20	787.71	279.62	235.27	44.35	6.305	
6,100.00	5,966.77	6,130.52	6,028.59	22.95	22.43	159.57	-252.85	810.11	280.26	235.13	45.13	6.210	
6,200.00	6,063.89	6,230.52	6,125.82	23.35	22.82	159.50	-259.50	832.52	280.90	234.98	45.92	6.117	
6,300.00	6,161.01	6,330.52	6,223.05	23.74	23.21	159.42	-266.15	854.92	281.55	234.84	46.71	6.028	
6,400.00	6,258.13	6,430.52	6,320.27	24.14	23.60	159.35	-272.81	877.33	282.19	234.70	47.49	5.942	
6,500.00	6,355.25	6,530.51	6,417.50	24.53	23.99	159.27	-279.46	899.73	282.84	234.56	48.28	5.858	
6,600.00	6,452.37	6,630.51	6,514.73	24.92	24.38	159.20	-286.11	922.14	283.49	234.42	49.07	5.777	
6,700.00	6,549.49	6,730.51	6,611.96	25.32	24.77	159.12	-292.76	944.54	284.13	234.28	49.86	5.699	
6,800.00	6,646.61	6,830.50	6,709.18	25.71	25.15	159.05	-299.42	966.95	284.78	234.14	50.64	5.623	
6,900.00	6,743.73	6,930.50	6,806.41	26.11	25.54	158.98	-306.07	989.35	285.43	234.00	51.43	5.549	
7,000.00	6,840.85	7,030.50	6,903.64	26.50	25.93	158.90	-312.72	1,011.76	286.08	233.86	52.22	5.478	
7,100.00	6,937.97	7,130.50	7,000.87	26.90	26.32	158.83	-319.37	1,034.16	286.73	233.72	53.01	5.409	
7,200.00	7,035.09	7,230.49	7,098.09	27.29	26.71	158.76	-326.02	1,056.56	287.38	233.58	53.80	5.341	
7,300.00	7,132.21	7,324.82	7,189.95	27.69	27.08	158.74	-332.12	1,077.09	288.68	234.09	54.60	5.288	SF
7,400.00	7,229.33	7,416.17	7,279.50	28.08	27.43	158.93	-337.25	1,094.37	292.77	237.42	55.36	5.289	
7,500.00	7,326.45	7,507.18	7,369.25	28.48	27.77	159.33	-341.55	1,108.86	299.81	243.75	56.06	5.348	
7,600.00	7,423.57	7,600.00	7,461.22	28.87	28.11	159.92	-345.10	1,120.81	309.81	253.06	56.75	5.459	
7,700.00	7,520.69	7,687.49	7,548.25	29.27	28.43	160.62	-347.67	1,129.46	322.75	265.43	57.32	5.630	
7,700.27	7,520.96	7,687.73	7,548.49	29.27	28.43	160.62	-347.67	1,129.48	322.79	265.47	57.32	5.631	
7,800.00	7,618.21	7,776.71	7,637.23	29.66	28.74	161.45	-349.50	1,135.64	337.03	279.17	57.87	5.824	
7,900.00	7,716.43	7,865.57	7,726.00	30.04	29.05	162.21	-350.55	1,139.16	351.00	292.64	58.36	6.015	
8,000.00	7,815.25	7,955.82	7,816.25	30.41	29.36	162.91	-350.82	1,140.08	364.58	305.75	58.83	6.198	
8,100.00	7,914.55	8,055.12	7,915.55	30.78	29.68	163.50	-350.82	1,140.08	375.90	316.40	59.50	6.318	
8,200.00	8,014.19	8,154.76	8,015.19	31.13	30.01	163.90	-350.82	1,140.08	383.92	323.75	60.17	6.381	
8,300.00	8,114.07	8,254.64	8,115.07	31.47	30.34	164.12	-350.82	1,140.08	388.59	327.76	60.83	6.388	
8,389.47	8,203.52	8,344.09	8,204.52	31.77	30.63	-90.68	-350.82	1,140.08	389.94	328.52	61.41	6.349	
8,400.00	8,214.05	8,354.62	8,215.05	31.80	30.67	89.58	-350.82	1,140.08	389.94	328.46	61.48	6.343	
8,447.52	8,261.47	8,402.04	8,262.47	31.95	30.82	90.00	-350.82	1,140.08	389.93	328.15	61.78	6.312	
8,450.00	8,263.94	8,404.51	8,264.94	31.95	30.83	90.04	-350.82	1,140.08	389.93	328.13	61.79	6.310	
8,500.00	8,313.37	8,453.94	8,314.37	32.11	31.00	91.11	-350.82	1,140.08	390.00	327.91	62.09	6.281	
8,550.00	8,361.96	8,502.53	8,362.96	32.27	31.16	92.74	-350.82	1,140.08	390.41	328.03	62.38	6.259	
8,600.00	8,409.35	8,549.92	8,410.35	32.42	31.31	94.83	-350.82	1,140.08	391.52	328.87	62.65	6.249	
8,650.00	8,455.17	8,595.74	8,456.17	32.57	31.47	97.26	-350.82	1,140.08	393.83	330.92	62.91	6.260	
8,700.00	8,499.07	8,639.64	8,500.07	32.71	31.61	99.87	-350.82	1,140.08	397.88	334.73	63.16	6.300	
8,750.00	8,540.73	8,681.30	8,541.73	32.85	31.75	102.49	-350.82	1,140.08	404.29	340.89	63.40	6.377	
8,800.00	8,579.82	8,720.39	8,580.82	32.99	31.88	104.94	-350.82	1,140.08	413.61	349.98	63.63	6.500	
8,850.00	8,616.04	8,756.61	8,617.04	33.11	32.00	107.06	-350.82	1,140.08	426.34	362.48	63.85	6.677	
8,900.00	8,649.13	8,789.70	8,650.13	33.24	32.11	108.69	-350.82	1,140.08	442.81	378.75	64.07	6.912	
8,950.00	8,678.82	8,819.39	8,679.82	33.36	32.21	109.70	-350.82	1,140.08	463.22	398.96	64.27	7.208	
9,000.00	8,704.90	8,845.47	8,705.90	33.47	32.30	109.97	-350.82	1,140.08	487.57	423.12	64.45	7.565	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,050.00	8,727.16	8,867.73	8,728.16	33.58	32.37	109.36	-350.82	1,140.08	515.68	451.07	64.61	7.982	
9,100.00	8,745.44	8,886.01	8,746.44	33.70	32.43	107.73	-350.82	1,140.08	547.26	482.52	64.74	8.453	
9,139.47	8,756.95	8,897.53	8,757.95	33.78	32.47	105.64	-350.82	1,140.08	574.37	509.54	64.82	8.861	
9,200.00	8,771.07	8,911.64	8,772.07	33.92	32.52	104.34	-350.82	1,140.08	618.87	553.95	64.92	9.533	
9,300.00	8,787.52	8,928.09	8,788.52	34.14	32.57	100.22	-350.82	1,140.08	698.22	633.18	65.04	10.736	
9,400.00	8,795.32	8,935.89	8,796.32	34.37	32.60	93.43	-350.82	1,140.08	782.87	717.78	65.09	12.027	
9,439.47	8,796.00	8,936.57	8,797.00	34.46	32.60	90.00	-350.82	1,140.08	817.33	752.23	65.10	12.555	
9,500.00	8,796.00	8,936.57	8,797.00	34.60	32.60	90.00	-350.82	1,140.08	871.01	805.90	65.10	13.379	
9,600.00	8,796.00	8,936.57	8,797.00	34.85	32.60	90.00	-350.82	1,140.08	961.47	896.36	65.11	14.766	
9,700.00	8,796.00	8,936.57	8,797.00	35.10	32.60	90.00	-350.82	1,140.08	1,053.66	988.53	65.12	16.179	
9,800.00	8,796.00	8,936.57	8,797.00	35.37	32.60	90.00	-350.82	1,140.08	1,147.16	1,082.02	65.14	17.611	
9,900.00	8,796.00	10,942.70	9,888.00	35.65	37.82	160.33	-1,529.66	1,145.24	1,158.59	1,106.66	51.93	22.311	
10,000.00	8,796.00	11,042.70	9,888.00	35.94	38.07	160.33	-1,629.66	1,145.68	1,158.59	1,105.79	52.80	21.942	
10,100.00	8,796.00	11,142.70	9,888.00	36.24	38.33	160.33	-1,729.66	1,146.12	1,158.59	1,104.89	53.71	21.573	
10,200.00	8,796.00	11,242.70	9,888.00	36.55	38.61	160.33	-1,829.66	1,146.55	1,158.60	1,103.96	54.64	21.204	
10,300.00	8,796.00	11,342.70	9,888.00	36.88	38.90	160.33	-1,929.66	1,146.99	1,158.60	1,102.99	55.60	20.837	
10,400.00	8,796.00	11,442.70	9,888.00	37.22	39.20	160.33	-2,029.66	1,147.43	1,158.60	1,102.01	56.59	20.473	
10,500.00	8,796.00	11,542.70	9,888.00	37.57	39.52	160.33	-2,129.66	1,147.87	1,158.60	1,100.99	57.61	20.113	
10,600.00	8,796.00	11,642.70	9,888.00	37.93	39.84	160.33	-2,229.66	1,148.31	1,158.60	1,099.95	58.64	19.756	
10,700.00	8,796.00	11,742.70	9,888.00	38.29	40.18	160.33	-2,329.66	1,148.75	1,158.60	1,098.89	59.71	19.405	
10,800.00	8,796.00	11,842.70	9,888.00	38.68	40.52	160.33	-2,429.66	1,149.19	1,158.60	1,097.81	60.79	19.059	
10,900.00	8,796.00	11,942.70	9,888.00	39.07	40.88	160.33	-2,529.65	1,149.62	1,158.60	1,096.71	61.89	18.719	
11,000.00	8,796.00	12,042.70	9,888.00	39.47	41.25	160.33	-2,629.65	1,150.06	1,158.60	1,095.59	63.02	18.386	
11,100.00	8,796.00	12,142.70	9,888.00	39.88	41.63	160.33	-2,729.65	1,150.50	1,158.60	1,094.44	64.16	18.058	
11,200.00	8,796.00	12,242.70	9,888.00	40.30	42.01	160.33	-2,829.65	1,150.94	1,158.60	1,093.29	65.32	17.738	
11,300.00	8,796.00	12,342.70	9,888.00	40.73	42.41	160.33	-2,929.65	1,151.38	1,158.60	1,092.11	66.49	17.424	
11,400.00	8,796.00	12,442.70	9,888.00	41.16	42.82	160.33	-3,029.65	1,151.82	1,158.61	1,090.92	67.69	17.117	
11,500.00	8,796.00	12,542.70	9,888.00	41.61	43.24	160.33	-3,129.65	1,152.26	1,158.61	1,089.71	68.89	16.817	
11,600.00	8,796.00	12,642.70	9,888.00	42.07	43.66	160.33	-3,229.65	1,152.69	1,158.61	1,088.49	70.12	16.524	
11,700.00	8,796.00	12,742.70	9,888.00	42.53	44.10	160.33	-3,329.65	1,153.13	1,158.61	1,087.26	71.35	16.238	
11,800.00	8,796.00	12,842.70	9,888.00	43.00	44.54	160.33	-3,429.65	1,153.57	1,158.61	1,086.01	72.60	15.959	
11,900.00	8,796.00	12,942.70	9,888.00	43.48	44.99	160.33	-3,529.64	1,154.01	1,158.61	1,084.75	73.86	15.687	
12,000.00	8,796.00	13,042.70	9,888.00	43.97	45.45	160.33	-3,629.64	1,154.45	1,158.61	1,083.48	75.13	15.422	
12,100.00	8,796.00	13,142.70	9,888.00	44.46	45.92	160.33	-3,729.64	1,154.89	1,158.61	1,082.20	76.41	15.163	
12,200.00	8,796.00	13,242.70	9,888.00	44.97	46.40	160.33	-3,829.64	1,155.33	1,158.61	1,080.91	77.70	14.911	
12,300.00	8,796.00	13,342.70	9,888.00	45.47	46.88	160.33	-3,929.64	1,155.77	1,158.61	1,079.61	79.00	14.665	
12,400.00	8,796.00	13,442.70	9,888.00	45.99	47.37	160.33	-4,029.64	1,156.20	1,158.61	1,078.30	80.32	14.426	
12,500.00	8,796.00	13,542.70	9,888.00	46.51	47.87	160.33	-4,129.64	1,156.64	1,158.62	1,076.98	81.64	14.192	
12,600.00	8,796.00	13,642.70	9,888.00	47.04	48.37	160.33	-4,229.64	1,157.08	1,158.62	1,075.65	82.97	13.965	
12,700.00	8,796.00	13,742.70	9,888.00	47.58	48.88	160.33	-4,329.64	1,157.52	1,158.62	1,074.31	84.30	13.743	
12,800.00	8,796.00	13,842.70	9,888.00	48.12	49.40	160.33	-4,429.64	1,157.96	1,158.62	1,072.97	85.65	13.528	
12,900.00	8,796.00	13,942.70	9,888.00	48.66	49.92	160.33	-4,529.64	1,158.40	1,158.62	1,071.62	87.00	13.317	
13,000.00	8,796.00	14,042.70	9,888.00	49.22	50.45	160.33	-4,629.63	1,158.84	1,158.62	1,070.26	88.36	13.112	
13,100.00	8,796.00	14,142.70	9,888.00	49.77	50.99	160.33	-4,729.63	1,159.27	1,158.62	1,068.89	89.73	12.913	
13,200.00	8,796.00	14,293.13	9,888.00	50.34	51.81	160.59	-4,879.81	1,165.46	1,157.86	1,066.58	91.28	12.684	
13,209.11	8,796.00	14,315.07	9,888.00	50.39	51.94	160.74	-4,901.49	1,168.76	1,157.42	1,066.01	91.40	12.663	
13,250.00	8,796.00	14,390.24	9,888.00	50.62	52.37	161.20	-4,974.65	1,185.80	1,154.67	1,062.91	91.76	12.584	
13,300.00	8,796.00	14,521.26	9,888.00	50.92	53.13	162.47	-5,096.12	1,234.23	1,150.14	1,058.47	91.67	12.547	
13,350.00	8,796.00	14,622.96	9,888.00	51.22	53.72	163.72	-5,182.26	1,288.09	1,144.59	1,053.24	91.36	12.529	
13,400.00	8,796.00	14,715.85	9,888.00	51.52	54.23	165.06	-5,252.84	1,348.37	1,138.43	1,047.48	90.95	12.517	
13,450.00	8,796.00	14,800.47	9,888.00	51.83	54.66	166.42	-5,309.16	1,411.45	1,131.98	1,041.40	90.58	12.497	
13,500.00	8,796.00	14,877.70	9,888.00	52.14	55.03	167.76	-5,353.10	1,474.90	1,125.53	1,035.20	90.33	12.461	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,550.00	8,796.00	14,948.51	9,888.00	52.45	55.34	169.08	-5,386.60	1,537.25	1,119.31	1,029.06	90.24	12.403	
13,600.00	8,796.00	15,013.86	9,888.00	52.75	55.59	170.36	-5,411.40	1,597.68	1,113.50	1,023.16	90.34	12.326	
13,650.00	8,796.00	15,074.58	9,888.00	53.04	55.80	171.62	-5,428.96	1,655.78	1,108.24	1,017.63	90.61	12.231	
13,700.00	8,796.00	15,131.40	9,888.00	53.33	55.97	172.85	-5,440.47	1,711.41	1,103.61	1,012.57	91.04	12.122	
13,750.00	8,796.00	15,184.94	9,888.00	53.61	56.10	174.06	-5,446.88	1,764.55	1,099.69	1,008.08	91.60	12.005	
13,800.00	8,796.00	15,235.71	9,888.00	53.87	56.21	175.26	-5,448.95	1,815.26	1,096.49	1,004.21	92.28	11.882	
13,850.00	8,796.00	15,284.12	9,888.00	54.12	56.29	176.45	-5,447.27	1,863.64	1,094.04	1,000.99	93.05	11.758	
13,900.00	8,796.00	15,330.54	9,888.00	54.35	56.35	177.64	-5,442.31	1,909.78	1,092.33	998.44	93.88	11.635	
13,950.00	8,796.00	15,375.25	9,888.00	54.56	56.39	178.82	-5,434.47	1,953.79	1,091.33	996.55	94.77	11.515	
14,000.00	8,796.00	15,418.49	9,888.00	54.76	56.42	180.00	-5,424.06	1,995.75	1,091.00	995.30	95.70	11.400	
14,000.18	8,796.00	15,418.65	9,888.00	54.76	56.42	-180.00	-5,424.02	1,995.90	1,091.00	995.30	95.70	11.400	
14,050.00	8,796.00	15,460.48	9,888.00	54.93	56.42	-178.84	-5,411.33	2,035.75	1,091.30	994.65	96.65	11.291	
14,100.00	8,796.00	15,500.00	9,888.00	55.08	56.42	-177.71	-5,397.04	2,072.59	1,092.18	994.55	97.64	11.186	
14,150.00	8,796.00	15,541.31	9,888.00	55.20	56.40	-176.54	-5,379.76	2,110.11	1,093.57	994.97	98.60	11.091	
14,200.00	8,796.00	15,580.44	9,888.00	55.31	56.38	-175.42	-5,361.25	2,144.57	1,095.41	995.82	99.59	11.000	
14,250.00	8,796.00	15,618.84	9,888.00	55.39	56.34	-174.32	-5,341.12	2,177.27	1,097.62	997.05	100.57	10.914	
14,300.00	8,796.00	15,656.61	9,888.00	55.45	56.29	-173.26	-5,319.50	2,208.23	1,100.14	998.60	101.55	10.834	
14,350.00	8,796.00	15,693.83	9,888.00	55.48	56.24	-172.23	-5,296.48	2,237.47	1,102.90	1,000.38	102.53	10.757	
14,400.00	8,796.00	15,730.56	9,888.00	55.49	56.18	-171.25	-5,272.17	2,265.01	1,105.82	1,002.33	103.49	10.685	
14,450.00	8,796.00	15,766.87	9,888.00	55.48	56.11	-170.31	-5,246.67	2,290.85	1,108.84	1,004.39	104.45	10.616	
14,500.00	8,796.00	15,800.00	9,888.00	55.45	56.05	-169.48	-5,222.19	2,313.17	1,111.90	1,006.48	105.42	10.547	
14,550.00	8,796.00	15,838.43	9,888.00	55.40	55.96	-168.61	-5,192.43	2,337.47	1,114.91	1,008.57	106.33	10.485	
14,600.00	8,796.00	15,873.76	9,888.00	55.33	55.88	-167.85	-5,163.86	2,358.25	1,117.83	1,010.58	107.25	10.422	
14,650.00	8,796.00	15,908.85	9,888.00	55.25	55.80	-167.16	-5,134.42	2,377.33	1,120.61	1,012.45	108.15	10.361	
14,700.00	8,796.00	15,950.00	9,888.00	55.15	55.69	-166.47	-5,098.65	2,397.67	1,123.21	1,014.21	109.00	10.304	
14,750.00	8,796.00	15,978.42	9,888.00	55.04	55.62	-165.99	-5,073.24	2,410.39	1,125.52	1,015.63	109.89	10.243	
14,800.00	8,796.00	16,012.97	9,888.00	54.92	55.53	-165.53	-5,041.65	2,424.36	1,127.57	1,016.86	110.71	10.185	
14,850.00	8,796.00	16,050.00	9,888.00	54.79	55.42	-165.12	-5,007.02	2,437.46	1,129.32	1,017.81	111.51	10.128	
14,900.00	8,796.00	16,081.72	9,888.00	54.65	55.34	-164.83	-4,976.81	2,447.12	1,130.71	1,018.43	112.28	10.071	
14,950.00	8,796.00	16,115.98	9,888.00	54.51	55.24	-164.61	-4,943.70	2,455.90	1,131.73	1,018.73	113.00	10.015	
15,000.00	8,796.00	16,150.00	9,888.00	54.37	55.15	-164.47	-4,910.41	2,462.90	1,132.38	1,018.68	113.70	9.960	
15,050.00	8,796.00	16,184.36	9,888.00	54.22	55.05	-164.42	-4,876.46	2,468.21	1,132.63	1,018.28	114.35	9.905	
15,099.11	8,796.00	16,217.93	9,888.00	54.08	54.95	-164.45	-4,843.08	2,471.68	1,132.49	1,017.54	114.95	9.852	
15,100.00	8,796.00	16,218.54	9,888.00	54.08	54.95	-164.45	-4,842.47	2,471.73	1,132.49	1,017.53	114.96	9.851	
15,200.00	8,796.00	16,306.62	9,888.00	53.80	54.71	-164.54	-4,754.52	2,476.44	1,131.98	1,015.75	116.23	9.739	
15,263.03	8,796.00	16,363.64	9,888.00	53.63	54.56	-164.60	-4,697.53	2,478.02	1,131.63	1,014.59	117.04	9.669	
15,300.00	8,796.00	16,400.00	9,888.00	53.53	54.47	-164.63	-4,661.16	2,478.44	1,131.47	1,013.94	117.54	9.627	
15,335.37	8,796.00	16,429.31	9,888.00	53.44	54.39	-164.64	-4,631.86	2,478.44	1,131.42	1,013.45	117.97	9.590	
15,400.00	8,796.00	16,493.94	9,888.00	53.27	54.22	-164.64	-4,567.22	2,478.16	1,131.42	1,012.56	118.86	9.519	
15,500.00	8,796.00	16,593.94	9,888.00	53.02	53.98	-164.64	-4,467.23	2,477.73	1,131.43	1,011.19	120.24	9.410	
15,600.00	8,796.00	16,693.94	9,888.00	52.78	53.74	-164.64	-4,367.23	2,477.29	1,131.43	1,009.81	121.62	9.303	
15,700.00	8,796.00	16,793.94	9,888.00	52.54	53.51	-164.64	-4,267.23	2,476.86	1,131.43	1,008.43	123.00	9.199	
15,800.00	8,796.00	16,893.94	9,888.00	52.31	53.29	-164.64	-4,167.23	2,476.42	1,131.43	1,007.04	124.39	9.096	
15,900.00	8,796.00	16,993.94	9,888.00	52.09	53.07	-164.64	-4,067.23	2,475.99	1,131.43	1,005.65	125.78	8.995	
16,000.00	8,796.00	17,093.94	9,888.00	51.88	52.87	-164.64	-3,967.23	2,475.55	1,131.43	1,004.25	127.18	8.896	
16,100.00	8,796.00	17,193.94	9,888.00	51.68	52.67	-164.64	-3,867.23	2,475.12	1,131.43	1,002.85	128.58	8.799	
16,200.00	8,796.00	17,293.94	9,888.00	51.49	52.48	-164.64	-3,767.23	2,474.68	1,131.43	1,001.45	129.99	8.704	
16,300.00	8,796.00	17,393.94	9,888.00	51.30	52.30	-164.64	-3,667.23	2,474.25	1,131.44	1,000.04	131.39	8.611	
16,400.00	8,796.00	17,493.94	9,888.00	51.13	52.13	-164.64	-3,567.23	2,473.81	1,131.44	998.63	132.81	8.519	
16,500.00	8,796.00	17,593.94	9,888.00	50.96	51.97	-164.64	-3,467.23	2,473.38	1,131.44	997.22	134.22	8.430	
16,600.00	8,796.00	17,693.94	9,888.00	50.80	51.81	-164.64	-3,367.24	2,472.94	1,131.44	995.80	135.64	8.341	
16,700.00	8,796.00	17,793.94	9,888.00	50.65	51.67	-164.63	-3,267.24	2,472.51	1,131.44	994.38	137.06	8.255	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,800.00	8,796.00	17,893.94	9,888.00	50.51	51.54	-164.63	-3,167.24	2,472.07	1,131.44	992.95	138.49	8.170	
16,900.00	8,796.00	17,993.94	9,888.00	50.38	51.41	-164.63	-3,067.24	2,471.64	1,131.44	991.53	139.92	8.087	
17,000.00	8,796.00	18,093.94	9,888.00	50.26	51.30	-164.63	-2,967.24	2,471.20	1,131.45	990.10	141.35	8.005	
17,100.00	8,796.00	18,193.94	9,888.00	50.15	51.19	-164.63	-2,867.24	2,470.77	1,131.45	988.66	142.78	7.924	
17,200.00	8,796.00	18,293.94	9,888.00	50.05	51.09	-164.63	-2,767.24	2,470.33	1,131.45	987.23	144.22	7.845	
17,300.00	8,796.00	18,393.94	9,888.00	49.97	51.01	-164.63	-2,667.24	2,469.90	1,131.45	985.79	145.66	7.768	
17,400.00	8,796.00	18,493.94	9,888.00	49.89	50.93	-164.63	-2,567.24	2,469.46	1,131.45	984.35	147.10	7.692	
17,500.00	8,796.00	18,593.94	9,888.00	49.82	50.87	-164.63	-2,467.24	2,469.03	1,131.45	982.91	148.55	7.617	
17,600.00	8,796.00	18,693.94	9,888.00	49.76	50.82	-164.63	-2,367.25	2,468.60	1,131.45	981.46	149.99	7.543	
17,700.00	8,796.00	18,793.94	9,888.00	49.72	50.77	-164.63	-2,267.25	2,468.16	1,131.45	980.01	151.44	7.471	
17,800.00	8,796.00	18,893.94	9,888.00	49.68	50.74	-164.63	-2,167.25	2,467.73	1,131.46	978.56	152.89	7.400	
17,900.00	8,796.00	18,993.94	9,888.00	49.66	50.72	-164.63	-2,067.25	2,467.29	1,131.46	977.11	154.35	7.331	
18,000.00	8,796.00	19,093.94	9,888.00	49.65	50.71	-164.63	-1,967.25	2,466.86	1,131.46	975.65	155.80	7.262	
18,100.00	8,796.00	19,193.94	9,888.00	49.65	50.71	-164.63	-1,867.25	2,466.42	1,131.46	974.20	157.26	7.195	
18,200.00	8,796.00	19,293.94	9,888.00	49.66	50.73	-164.63	-1,767.25	2,465.99	1,131.46	972.74	158.72	7.128	
18,300.00	8,796.00	19,393.94	9,888.00	49.69	50.76	-164.63	-1,667.25	2,465.55	1,131.46	971.28	160.19	7.063	
18,400.00	8,796.00	19,493.94	9,888.00	49.73	50.80	-164.63	-1,567.25	2,465.12	1,131.46	969.81	161.65	6.999	
18,500.00	8,796.00	19,593.94	9,888.00	49.78	50.85	-164.63	-1,467.25	2,464.68	1,131.46	968.35	163.12	6.937	
18,600.00	8,796.00	19,693.94	9,888.00	49.84	50.91	-164.63	-1,367.25	2,464.25	1,131.47	966.88	164.59	6.875	
18,700.00	8,796.00	19,793.94	9,888.00	49.92	50.99	-164.63	-1,267.26	2,463.81	1,131.47	965.41	166.06	6.814	
18,800.00	8,796.00	19,893.94	9,888.00	50.01	51.08	-164.63	-1,167.26	2,463.38	1,131.47	963.94	167.53	6.754	
18,900.00	8,796.00	19,993.94	9,888.00	50.12	51.18	-164.63	-1,067.26	2,462.94	1,131.47	962.47	169.00	6.695	
19,000.00	8,796.00	20,093.94	9,888.00	50.24	51.30	-164.63	-967.26	2,462.51	1,131.47	960.99	170.48	6.637	
19,100.00	8,796.00	20,193.94	9,888.00	50.37	51.43	-164.63	-867.26	2,462.07	1,131.47	959.52	171.95	6.580	
19,200.00	8,796.00	20,293.94	9,888.00	50.51	51.57	-164.63	-767.26	2,461.64	1,131.47	958.04	173.43	6.524	
19,300.00	8,796.00	20,393.94	9,888.00	50.67	51.72	-164.63	-667.26	2,461.20	1,131.48	956.56	174.91	6.469	
19,400.00	8,796.00	20,493.94	9,888.00	50.85	51.89	-164.63	-567.26	2,460.77	1,131.48	955.08	176.39	6.414	
19,500.00	8,796.00	20,593.94	9,888.00	51.03	52.07	-164.63	-467.26	2,460.33	1,131.48	953.60	177.88	6.361	
19,600.00	8,796.00	20,693.94	9,888.00	51.23	52.27	-164.63	-367.26	2,459.90	1,131.48	952.12	179.36	6.308	
19,602.91	8,796.00	20,696.85	9,888.00	51.24	52.27	-164.63	-364.36	2,459.89	1,131.48	952.07	179.40	6.307	
19,634.41	8,796.00	20,726.09	9,888.00	51.30	52.33	-164.63	-335.12	2,459.76	1,131.48	951.65	179.84	6.292	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	-90.63	-0.22	-20.00	20.00				
100.00	100.00	101.00	101.00	0.28	0.28	-90.63	-0.22	-20.00	20.00	19.45	0.56	35.997	
200.00	200.00	201.00	201.00	0.63	0.64	-90.63	-0.22	-20.00	20.00	18.73	1.27	15.717	
300.00	300.00	301.00	301.00	0.99	1.00	-90.63	-0.22	-20.00	20.00	18.01	1.99	10.053	
400.00	400.00	401.00	401.00	1.35	1.36	-90.63	-0.22	-20.00	20.00	17.29	2.71	7.390	
416.33	416.33	417.33	417.33	1.41	1.41	-90.63	-0.22	-20.00	20.00	17.18	2.82	7.084	CC
500.00	500.00	501.00	501.00	1.71	1.71	-90.63	-0.22	-20.00	20.00	16.58	3.42	5.843	
502.45	502.45	503.45	503.45	1.72	1.72	-90.64	-0.22	-20.00	20.00	16.56	3.44	5.814	
600.00	599.98	600.87	600.85	2.07	2.05	-100.58	-2.00	-20.00	20.35	16.23	4.12	4.937	ES
700.00	699.84	700.00	699.84	2.43	2.39	-125.13	-7.20	-20.00	24.54	19.72	4.81	5.100	
750.00	749.68	749.08	748.77	2.61	2.56	-137.33	-11.04	-20.00	29.75	24.59	5.16	5.766	
800.00	799.49	798.32	797.82	2.79	2.72	-146.52	-15.33	-20.00	36.65	31.14	5.51	6.653	
900.00	899.11	896.80	895.92	3.15	3.06	-157.10	-23.92	-20.00	52.07	45.86	6.20	8.394	
1,000.00	998.73	995.28	994.03	3.51	3.40	-162.76	-32.50	-20.00	68.43	61.53	6.90	9.916	
1,001.27	1,000.00	996.53	995.28	3.51	3.41	-162.81	-32.61	-20.00	68.64	61.73	6.91	9.934	
1,100.00	1,098.41	1,095.04	1,093.41	3.87	3.75	170.74	-40.92	-18.49	84.03	76.42	7.61	11.044	
1,200.00	1,198.13	1,195.33	1,193.27	4.22	4.11	141.69	-48.75	-13.54	97.29	88.97	8.32	11.697	
1,300.00	1,297.78	1,295.98	1,293.31	4.58	4.47	118.80	-55.96	-5.10	108.10	99.08	9.03	11.977	
1,400.00	1,397.23	1,396.91	1,393.30	4.93	4.83	103.67	-62.52	6.83	116.41	106.68	9.74	11.958	
1,500.00	1,496.35	1,497.99	1,493.03	5.28	5.19	93.66	-68.43	22.26	122.20	111.75	10.45	11.699	
1,600.00	1,595.04	1,599.14	1,592.25	5.63	5.55	86.57	-73.65	41.15	125.45	114.30	11.16	11.242	
1,700.00	1,693.16	1,700.25	1,690.75	5.98	5.92	81.13	-78.18	63.47	126.18	114.31	11.88	10.625	
1,792.67	1,783.48	1,793.31	1,780.82	6.31	6.26	77.13	-81.83	86.61	124.73	112.19	12.54	9.944	
1,800.00	1,790.60	1,800.64	1,787.90	6.34	6.28	77.05	-82.11	88.46	124.55	111.95	12.60	9.888	
1,900.00	1,887.72	1,900.59	1,884.55	6.70	6.65	76.04	-85.96	113.64	122.13	108.81	13.32	9.168	
2,000.00	1,984.84	2,000.53	1,981.20	7.06	7.02	74.99	-89.81	138.82	119.75	105.70	14.05	8.521	
2,100.00	2,081.96	2,100.48	2,077.85	7.43	7.39	73.90	-93.66	163.99	117.42	102.63	14.79	7.939	
2,200.00	2,179.08	2,200.43	2,174.49	7.80	7.77	72.76	-97.51	189.17	115.13	99.59	15.53	7.412	
2,300.00	2,276.20	2,300.37	2,271.14	8.17	8.15	71.58	-101.36	214.35	112.88	96.60	16.28	6.935	
2,400.00	2,373.32	2,400.32	2,367.79	8.55	8.53	70.34	-105.21	239.53	110.69	93.66	17.03	6.501	
2,500.00	2,470.44	2,500.27	2,464.43	8.93	8.92	69.06	-109.06	264.71	108.55	90.77	17.78	6.106	
2,600.00	2,567.56	2,600.22	2,561.08	9.30	9.30	67.73	-112.91	289.89	106.46	87.93	18.53	5.745	
2,700.00	2,664.68	2,700.16	2,657.73	9.68	9.69	66.35	-116.76	315.06	104.44	85.15	19.28	5.416	
2,800.00	2,761.80	2,800.11	2,754.37	10.07	10.08	64.91	-120.61	340.24	102.48	82.43	20.04	5.113	
2,900.00	2,858.92	2,900.06	2,851.02	10.45	10.47	63.42	-124.46	365.42	100.58	79.78	20.80	4.836	
3,000.00	2,956.04	3,000.00	2,947.67	10.83	10.86	61.87	-128.31	390.60	98.76	77.20	21.56	4.581	
3,100.00	3,053.16	3,099.95	3,044.32	11.22	11.25	60.27	-132.16	415.78	97.01	74.69	22.31	4.347	
3,200.00	3,150.29	3,199.90	3,140.96	11.60	11.64	58.61	-136.01	440.96	95.34	72.26	23.07	4.132	
3,300.00	3,247.41	3,299.84	3,237.61	11.99	12.03	56.89	-139.86	466.13	93.75	69.92	23.83	3.933	
3,400.00	3,344.53	3,399.79	3,334.26	12.38	12.43	55.11	-143.71	491.31	92.25	67.66	24.59	3.751	
3,500.00	3,441.65	3,499.74	3,430.90	12.76	12.82	53.27	-147.56	516.49	90.84	65.49	25.36	3.583	
3,600.00	3,538.77	3,599.69	3,527.55	13.15	13.21	51.38	-151.41	541.67	89.53	63.41	26.12	3.428	
3,700.00	3,635.89	3,699.63	3,624.20	13.54	13.61	49.44	-155.26	566.85	88.32	61.44	26.88	3.286	
3,800.00	3,733.01	3,799.58	3,720.84	13.93	14.00	47.44	-159.11	592.03	87.21	59.57	27.64	3.155	
3,900.00	3,830.13	3,899.53	3,817.49	14.32	14.40	45.40	-162.96	617.20	86.21	57.81	28.41	3.035	
4,000.00	3,927.25	3,999.47	3,914.14	14.71	14.79	43.31	-166.81	642.38	85.33	56.16	29.17	2.925	
4,100.00	4,024.37	4,099.42	4,010.79	15.10	15.19	41.17	-170.66	667.56	84.56	54.62	29.94	2.824	
4,200.00	4,121.49	4,199.37	4,107.43	15.49	15.58	39.01	-174.51	692.74	83.91	53.20	30.71	2.732	
4,300.00	4,218.61	4,299.32	4,204.08	15.88	15.98	36.81	-178.36	717.92	83.38	51.90	31.48	2.649	
4,400.00	4,315.73	4,399.26	4,300.73	16.27	16.38	34.59	-182.21	743.10	82.97	50.73	32.25	2.573	
4,500.00	4,412.85	4,499.21	4,397.37	16.66	16.77	32.35	-186.06	768.27	82.70	49.67	33.02	2.504	
4,600.00	4,509.97	4,599.16	4,494.02	17.05	17.17	30.09	-189.91	793.45	82.54	48.75	33.80	2.442	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,668.00	4,576.01	4,667.12	4,559.74	17.32	17.44	28.56	-192.52	810.57	82.51	48.19	34.33	2.404	
4,700.00	4,607.09	4,699.10	4,590.67	17.45	17.57	27.84	-193.76	818.63	82.52	47.94	34.58	2.387	
4,800.00	4,704.21	4,799.05	4,687.31	17.84	17.97	25.58	-197.61	843.81	82.63	47.27	35.36	2.337	
4,900.00	4,801.33	4,899.00	4,783.96	18.23	18.36	23.34	-201.46	868.99	82.86	46.72	36.14	2.293	
5,000.00	4,898.45	4,998.95	4,880.61	18.62	18.76	21.11	-205.30	894.17	83.22	46.29	36.93	2.253	
5,100.00	4,995.57	5,098.89	4,977.26	19.02	19.16	18.90	-209.15	919.34	83.70	45.98	37.72	2.219	
5,200.00	5,092.69	5,198.84	5,073.90	19.41	19.56	16.72	-213.00	944.52	84.31	45.80	38.51	2.189	
5,300.00	5,189.81	5,298.79	5,170.55	19.80	19.96	14.58	-216.85	969.70	85.04	45.73	39.31	2.163	
5,400.00	5,286.93	5,398.73	5,267.20	20.20	20.35	12.47	-220.70	994.88	85.88	45.78	40.10	2.141	
5,500.00	5,384.05	5,498.68	5,363.84	20.59	20.75	10.41	-224.55	1,020.06	86.84	45.94	40.90	2.123	
5,600.00	5,481.17	5,598.63	5,460.49	20.98	21.15	8.40	-228.40	1,045.24	87.91	46.20	41.71	2.108	
5,700.00	5,578.29	5,698.57	5,557.14	21.38	21.55	6.43	-232.25	1,070.41	89.08	46.57	42.51	2.096	
5,800.00	5,675.41	5,798.52	5,653.79	21.77	21.95	4.52	-236.10	1,095.59	90.36	47.04	43.31	2.086	
5,900.00	5,772.53	5,898.47	5,750.43	22.16	22.35	2.67	-239.95	1,120.77	91.73	47.61	44.12	2.079	
6,000.00	5,869.65	5,998.42	5,847.08	22.56	22.75	0.87	-243.80	1,145.95	93.20	48.27	44.93	2.074	
6,100.00	5,966.77	6,098.36	5,943.73	22.95	23.15	-0.87	-247.65	1,171.13	94.76	49.02	45.74	2.072	
6,200.00	6,063.89	6,198.31	6,040.37	23.35	23.55	-2.56	-251.50	1,196.31	96.40	49.85	46.55	2.071	SF
6,300.00	6,161.01	6,298.26	6,137.02	23.74	23.94	-4.18	-255.35	1,221.48	98.12	50.76	47.36	2.072	
6,400.00	6,258.13	6,398.20	6,233.67	24.14	24.34	-5.75	-259.20	1,246.66	99.92	51.74	48.17	2.074	
6,500.00	6,355.25	6,498.15	6,330.31	24.53	24.74	-7.26	-263.05	1,271.84	101.79	52.80	48.99	2.078	
6,600.00	6,452.37	6,598.10	6,426.96	24.92	25.14	-8.72	-266.90	1,297.02	103.72	53.92	49.80	2.083	
6,700.00	6,549.49	6,698.05	6,523.61	25.32	25.54	-10.12	-270.75	1,322.20	105.73	55.11	50.61	2.089	
6,800.00	6,646.61	6,797.99	6,620.26	25.71	25.94	-11.47	-274.60	1,347.38	107.79	56.36	51.43	2.096	
6,900.00	6,743.73	6,897.94	6,716.90	26.11	26.34	-12.77	-278.45	1,372.55	109.91	57.67	52.24	2.104	
7,000.00	6,840.85	6,997.89	6,813.55	26.50	26.74	-14.02	-282.30	1,397.73	112.09	59.03	53.05	2.113	
7,100.00	6,937.97	7,097.83	6,910.20	26.90	27.14	-15.22	-286.15	1,422.91	114.31	60.45	53.87	2.122	
7,200.00	7,035.09	7,197.78	7,006.84	27.29	27.54	-16.37	-290.00	1,448.09	116.59	61.91	54.68	2.132	
7,300.00	7,132.21	7,297.73	7,103.49	27.69	27.94	-17.48	-293.85	1,473.27	118.91	63.41	55.49	2.143	
7,400.00	7,229.33	7,397.68	7,200.14	28.08	28.34	-18.55	-297.70	1,498.45	121.27	64.96	56.31	2.154	
7,500.00	7,326.45	7,497.62	7,296.78	28.48	28.74	-19.57	-301.55	1,523.62	123.68	66.55	57.12	2.165	
7,600.00	7,423.57	7,597.57	7,393.43	28.87	29.14	-20.56	-305.40	1,548.80	126.12	68.18	57.93	2.177	
7,700.00	7,520.69	7,697.52	7,490.08	29.27	29.54	-21.51	-309.25	1,573.98	128.59	69.85	58.75	2.189	
7,700.27	7,520.96	7,697.79	7,490.34	29.27	29.54	-21.51	-309.26	1,574.05	128.60	69.85	58.75	2.189	
7,800.00	7,618.21	7,797.42	7,586.68	29.66	29.94	-22.17	-313.10	1,599.15	132.71	73.16	59.55	2.229	
7,900.00	7,716.43	7,898.70	7,684.72	30.04	30.35	-22.30	-316.94	1,624.29	139.70	79.34	60.36	2.314	
8,000.00	7,815.25	8,000.79	7,783.95	30.41	30.75	-22.09	-320.57	1,648.01	148.31	87.15	61.16	2.425	
8,100.00	7,914.55	8,102.90	7,883.61	30.78	31.15	-21.62	-323.92	1,669.97	158.44	96.51	61.92	2.559	
8,200.00	8,014.19	8,205.02	7,983.66	31.13	31.54	-20.94	-327.01	1,690.18	170.10	107.45	62.66	2.715	
8,300.00	8,114.07	8,307.16	8,084.08	31.47	31.93	-20.11	-329.83	1,708.62	183.33	119.97	63.35	2.894	
8,389.47	8,203.52	8,398.55	8,174.20	31.77	32.27	85.85	-332.13	1,723.62	196.50	132.56	63.94	3.073	
8,400.00	8,214.05	8,409.31	8,184.83	31.80	32.31	-93.66	-332.38	1,725.30	198.12	134.11	64.01	3.095	
8,450.00	8,263.94	8,460.45	8,235.38	31.95	32.50	-93.31	-333.56	1,732.98	205.72	141.39	64.34	3.198	
8,500.00	8,313.37	8,511.34	8,285.74	32.11	32.69	-94.18	-334.66	1,740.18	213.23	148.55	64.68	3.297	
8,550.00	8,361.96	8,561.57	8,335.51	32.27	32.87	-96.07	-335.68	1,746.85	220.94	155.90	65.04	3.397	
8,600.00	8,409.35	8,610.72	8,384.27	32.42	33.05	-98.76	-336.61	1,752.96	229.36	163.96	65.40	3.507	
8,650.00	8,455.17	8,658.38	8,431.60	32.57	33.22	-101.97	-337.46	1,758.49	239.12	173.36	65.77	3.636	
8,700.00	8,499.07	8,704.17	8,477.11	32.71	33.39	-105.43	-338.21	1,763.43	250.94	184.82	66.12	3.795	
8,750.00	8,540.73	8,747.70	8,520.42	32.85	33.54	-108.86	-338.88	1,767.80	265.48	199.02	66.46	3.995	
8,800.00	8,579.82	8,788.62	8,561.16	32.99	33.69	-111.99	-339.47	1,771.61	283.30	216.53	66.77	4.243	
8,850.00	8,616.04	8,826.61	8,599.00	33.11	33.82	-114.62	-339.97	1,774.89	304.77	237.72	67.06	4.545	
8,900.00	8,649.13	8,861.35	8,633.63	33.24	33.94	-116.57	-340.39	1,777.68	330.06	262.75	67.31	4.903	
8,950.00	8,678.82	8,892.57	8,664.76	33.36	34.05	-117.69	-340.75	1,780.00	359.12	291.59	67.54	5.317	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,704.90	8,920.03	8,692.16	33.47	34.15	-117.83	-341.04	1,781.90	391.76	324.03	67.73	5.784	
9,050.00	8,727.16	8,943.52	8,715.60	33.58	34.23	-116.83	-341.27	1,783.43	427.64	359.76	67.89	6.299	
9,100.00	8,745.44	8,962.87	8,734.90	33.70	34.29	-114.47	-341.45	1,784.62	466.37	398.36	68.01	6.857	
9,139.47	8,756.95	8,975.12	8,747.13	33.78	34.34	-111.46	-341.56	1,785.33	498.65	430.56	68.09	7.323	
9,200.00	8,771.07	8,990.21	8,762.20	33.92	34.39	-109.62	-341.69	1,786.18	550.28	482.09	68.19	8.070	
9,300.00	8,787.52	9,007.99	8,779.96	34.14	34.45	-103.67	-341.84	1,787.13	639.40	571.10	68.30	9.361	
9,400.00	8,795.32	9,016.82	8,788.78	34.37	34.48	-93.56	-341.91	1,787.58	731.82	663.45	68.37	10.704	
9,439.47	8,796.00	9,017.84	8,789.79	34.46	34.48	-88.40	-341.91	1,787.63	768.88	700.50	68.38	11.244	
9,500.00	8,796.00	9,018.33	8,790.28	34.60	34.48	-88.51	-341.92	1,787.66	826.16	757.77	68.39	12.080	
9,600.00	8,796.00	10,521.22	9,673.00	34.85	38.39	-163.17	-1,226.80	1,798.79	915.19	878.86	36.33	25.192	
9,700.00	8,796.00	10,621.22	9,673.00	35.10	38.63	-163.17	-1,326.79	1,799.23	915.19	878.34	36.85	24.838	
9,800.00	8,796.00	10,721.22	9,673.00	35.37	38.89	-163.17	-1,426.79	1,799.67	915.19	877.76	37.42	24.456	
9,900.00	8,796.00	10,821.22	9,673.00	35.65	39.15	-163.17	-1,526.79	1,800.11	915.19	877.13	38.05	24.050	
10,000.00	8,796.00	10,921.22	9,673.00	35.94	39.43	-163.17	-1,626.79	1,800.55	915.19	876.45	38.74	23.625	
10,100.00	8,796.00	11,021.22	9,673.00	36.24	39.71	-163.17	-1,726.79	1,800.98	915.18	875.71	39.47	23.185	
10,200.00	8,796.00	11,121.22	9,673.00	36.55	40.01	-163.17	-1,826.79	1,801.42	915.18	874.93	40.26	22.734	
10,300.00	8,796.00	11,221.22	9,673.00	36.88	40.32	-163.17	-1,926.79	1,801.86	915.18	874.10	41.08	22.276	
10,400.00	8,796.00	11,321.22	9,673.00	37.22	40.64	-163.17	-2,026.79	1,802.30	915.18	873.23	41.95	21.815	
10,500.00	8,796.00	11,421.22	9,673.00	37.57	40.96	-163.17	-2,126.79	1,802.74	915.18	872.32	42.86	21.352	
10,600.00	8,796.00	11,521.22	9,673.00	37.93	41.30	-163.17	-2,226.79	1,803.18	915.18	871.37	43.81	20.891	
10,700.00	8,796.00	11,621.22	9,673.00	38.29	41.65	-163.17	-2,326.78	1,803.61	915.18	870.39	44.79	20.433	
10,800.00	8,796.00	11,721.22	9,673.00	38.68	42.01	-163.17	-2,426.78	1,804.05	915.18	869.38	45.80	19.981	
10,900.00	8,796.00	11,821.22	9,673.00	39.07	42.38	-163.17	-2,526.78	1,804.49	915.18	868.33	46.85	19.536	
11,000.00	8,796.00	11,921.22	9,673.00	39.47	42.75	-163.17	-2,626.78	1,804.93	915.18	867.26	47.92	19.099	
11,100.00	8,796.00	12,021.22	9,673.00	39.88	43.14	-163.18	-2,726.78	1,805.37	915.18	866.16	49.02	18.671	
11,200.00	8,796.00	12,121.22	9,673.00	40.30	43.53	-163.18	-2,826.78	1,805.80	915.17	865.04	50.14	18.253	
11,300.00	8,796.00	12,221.22	9,673.00	40.73	43.94	-163.18	-2,926.78	1,806.24	915.17	863.89	51.28	17.845	
11,400.00	8,796.00	12,321.22	9,673.00	41.16	44.35	-163.18	-3,026.78	1,806.68	915.17	862.72	52.45	17.448	
11,500.00	8,796.00	12,421.22	9,673.00	41.61	44.77	-163.18	-3,126.78	1,807.12	915.17	861.53	53.64	17.061	
11,600.00	8,796.00	12,521.22	9,673.00	42.07	45.20	-163.18	-3,226.78	1,807.56	915.17	860.32	54.85	16.686	
11,700.00	8,796.00	12,621.22	9,673.00	42.53	45.64	-163.18	-3,326.78	1,808.00	915.17	859.10	56.07	16.321	
11,800.00	8,796.00	12,721.22	9,673.00	43.00	46.08	-163.18	-3,426.77	1,808.43	915.17	857.86	57.31	15.968	
11,900.00	8,796.00	12,821.22	9,673.00	43.48	46.53	-163.18	-3,526.77	1,808.87	915.17	856.60	58.57	15.625	
12,000.00	8,796.00	12,921.22	9,673.00	43.97	47.00	-163.18	-3,626.77	1,809.31	915.17	855.33	59.84	15.293	
12,100.00	8,796.00	13,021.22	9,673.00	44.46	47.46	-163.18	-3,726.77	1,809.75	915.17	854.04	61.13	14.972	
12,200.00	8,796.00	13,121.22	9,673.00	44.97	47.94	-163.18	-3,826.77	1,810.19	915.17	852.74	62.42	14.660	
12,300.00	8,796.00	13,221.22	9,673.00	45.47	48.42	-163.18	-3,926.77	1,810.63	915.16	851.43	63.73	14.359	
12,400.00	8,796.00	13,321.22	9,673.00	45.99	48.91	-163.18	-4,026.77	1,811.06	915.16	850.11	65.05	14.068	
12,500.00	8,796.00	13,421.22	9,673.00	46.51	49.40	-163.18	-4,126.77	1,811.50	915.16	848.78	66.39	13.786	
12,600.00	8,796.00	13,521.22	9,673.00	47.04	49.91	-163.18	-4,226.77	1,811.94	915.16	847.43	67.73	13.512	
12,700.00	8,796.00	13,621.22	9,673.00	47.58	50.42	-163.18	-4,326.77	1,812.38	915.16	846.08	69.08	13.248	
12,800.00	8,796.00	13,721.22	9,673.00	48.12	50.93	-163.18	-4,426.76	1,812.82	915.16	844.72	70.44	12.992	
12,900.00	8,796.00	13,821.22	9,673.00	48.66	51.45	-163.18	-4,526.76	1,813.26	915.16	843.35	71.81	12.745	
13,000.00	8,796.00	13,921.22	9,673.00	49.22	51.98	-163.18	-4,626.76	1,813.69	915.16	841.98	73.18	12.505	
13,100.00	8,796.00	14,021.22	9,673.00	49.77	52.51	-163.18	-4,726.76	1,814.13	915.16	840.59	74.57	12.273	
13,161.56	8,796.00	14,082.77	9,673.00	50.12	52.84	-163.18	-4,788.32	1,814.40	915.16	839.74	75.42	12.134	
13,200.00	8,796.00	14,110.71	9,673.00	50.34	52.99	-163.15	-4,816.24	1,815.04	915.37	839.37	76.00	12.044	
13,209.11	8,796.00	14,117.19	9,673.00	50.39	53.02	-163.13	-4,822.71	1,815.36	915.48	839.35	76.14	12.024	
13,250.00	8,796.00	14,150.00	9,673.00	50.62	53.20	-163.02	-4,855.42	1,817.94	915.95	839.22	76.73	11.937	
13,300.00	8,796.00	14,181.78	9,673.00	50.92	53.38	-162.98	-4,886.94	1,821.99	916.13	838.60	77.54	11.816	
13,350.00	8,796.00	14,217.30	9,673.00	51.22	53.59	-163.03	-4,921.89	1,828.32	915.92	837.58	78.34	11.691	
13,400.00	8,796.00	14,250.00	9,673.00	51.52	53.78	-163.16	-4,953.72	1,835.80	915.31	836.12	79.19	11.558	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,450.00	8,796.00	14,288.46	9,673.00	51.83	54.00	-163.41	-4,990.62	1,846.61	914.31	834.28	80.03	11.425	
13,500.00	8,796.00	14,324.14	9,673.00	52.14	54.22	-163.74	-5,024.24	1,858.55	912.93	832.03	80.90	11.285	
13,550.00	8,796.00	14,359.93	9,673.00	52.45	54.43	-164.17	-5,057.26	1,872.35	911.21	829.42	81.79	11.141	
13,600.00	8,796.00	14,400.00	9,673.00	52.75	54.67	-164.72	-5,093.28	1,889.89	909.17	826.51	82.66	10.999	
13,650.00	8,796.00	14,431.95	9,673.00	53.04	54.86	-165.28	-5,121.19	1,905.44	906.83	823.21	83.62	10.844	
13,700.00	8,796.00	14,468.25	9,673.00	53.33	55.07	-165.97	-5,151.94	1,924.71	904.25	819.68	84.57	10.692	
13,750.00	8,796.00	14,500.00	9,673.00	53.61	55.26	-166.66	-5,177.93	1,942.94	901.50	815.91	85.59	10.533	
13,800.00	8,796.00	14,541.58	9,673.00	53.87	55.50	-167.58	-5,210.58	1,968.67	898.57	812.03	86.53	10.384	
13,850.00	8,796.00	14,578.69	9,673.00	54.12	55.71	-168.50	-5,238.31	1,993.34	895.57	808.02	87.55	10.229	
13,900.00	8,796.00	14,616.17	9,673.00	54.35	55.92	-169.50	-5,264.84	2,019.80	892.55	803.97	88.58	10.076	
13,950.00	8,796.00	14,650.00	9,673.00	54.56	56.11	-170.47	-5,287.47	2,044.95	889.58	799.89	89.69	9.919	
14,000.00	8,796.00	14,692.41	9,673.00	54.76	56.34	-171.67	-5,313.96	2,078.06	886.71	796.03	90.69	9.778	
14,050.00	8,796.00	14,731.30	9,673.00	54.93	56.53	-172.84	-5,336.32	2,109.86	884.04	792.30	91.74	9.636	
14,100.00	8,796.00	14,770.79	9,673.00	55.08	56.73	-174.06	-5,357.07	2,143.45	881.63	788.84	92.79	9.501	
14,150.00	8,796.00	14,810.97	9,673.00	55.20	56.92	-175.31	-5,376.08	2,178.84	879.56	785.75	93.81	9.376	
14,200.00	8,796.00	14,850.00	9,673.00	55.31	57.09	-176.55	-5,392.44	2,214.28	877.90	783.07	94.83	9.257	
14,250.00	8,796.00	14,893.76	9,673.00	55.39	57.28	-177.93	-5,408.25	2,255.08	876.72	781.01	95.71	9.160	
14,300.00	8,796.00	14,936.62	9,673.00	55.45	57.44	-179.27	-5,421.07	2,295.96	876.09	779.54	96.55	9.074	
14,326.71	8,796.00	14,959.97	9,673.00	55.46	57.53	-180.00	-5,426.93	2,318.56	876.00	779.04	96.96	9.034	
14,350.00	8,796.00	14,980.62	9,673.00	55.48	57.60	179.36	-5,431.43	2,338.72	876.07	778.78	97.30	9.004	
14,400.00	8,796.00	15,025.95	9,673.00	55.49	57.75	177.99	-5,439.10	2,383.38	876.71	778.80	97.92	8.954	
14,450.00	8,796.00	15,072.79	9,673.00	55.48	57.88	176.60	-5,443.77	2,429.99	878.06	779.66	98.39	8.924	
14,500.00	8,796.00	15,121.38	9,673.00	55.45	58.00	175.20	-5,445.09	2,478.54	880.14	781.42	98.72	8.916	
14,550.00	8,796.00	15,171.98	9,673.00	55.40	58.10	173.80	-5,442.66	2,529.07	882.96	784.09	98.87	8.930	
14,600.00	8,796.00	15,224.90	9,673.00	55.33	58.19	172.39	-5,435.97	2,581.56	886.52	787.67	98.86	8.968	
14,650.00	8,796.00	15,280.51	9,673.00	55.25	58.25	170.97	-5,424.43	2,635.93	890.80	792.13	98.67	9.028	
14,700.00	8,796.00	15,339.22	9,673.00	55.15	58.29	169.54	-5,407.30	2,692.07	895.73	797.39	98.34	9.109	
14,750.00	8,796.00	15,401.52	9,673.00	55.04	58.30	168.10	-5,383.73	2,749.71	901.24	803.35	97.89	9.206	
14,800.00	8,796.00	15,467.94	9,673.00	54.92	58.28	166.65	-5,352.72	2,808.42	907.22	809.83	97.38	9.316	
14,850.00	8,796.00	15,539.05	9,673.00	54.79	58.22	165.21	-5,313.15	2,867.46	913.50	816.61	96.89	9.428	
14,900.00	8,796.00	15,615.44	9,673.00	54.65	58.12	163.77	-5,263.81	2,925.73	919.91	823.41	96.50	9.533	
14,950.00	8,796.00	15,697.64	9,673.00	54.51	57.98	162.37	-5,203.57	2,981.58	926.21	829.88	96.32	9.616	
15,000.00	8,796.00	15,786.02	9,673.00	54.37	57.79	161.05	-5,131.59	3,032.75	932.13	835.65	96.48	9.662	
15,050.00	8,796.00	15,880.66	9,673.00	54.22	57.56	159.86	-5,047.67	3,076.31	937.38	840.33	97.05	9.659	
15,099.11	8,796.00	15,979.31	9,673.00	54.08	57.30	158.89	-4,954.50	3,108.44	941.59	843.52	98.07	9.601	
15,100.00	8,796.00	15,981.15	9,673.00	54.08	57.30	158.87	-4,952.72	3,108.90	941.66	843.57	98.09	9.600	
15,200.00	8,796.00	16,155.47	9,673.00	53.80	56.82	158.04	-4,780.23	3,131.12	944.58	843.96	100.62	9.388	
15,263.03	8,796.00	16,227.37	9,673.00	53.63	56.63	157.96	-4,708.35	3,133.13	945.08	843.53	101.55	9.306	
15,300.00	8,796.00	16,269.56	9,673.00	53.53	56.52	157.93	-4,666.16	3,133.47	945.26	843.15	102.11	9.257	
15,400.00	8,796.00	16,371.35	9,673.00	53.27	56.26	157.93	-4,564.37	3,133.06	945.27	841.89	103.38	9.144	
15,500.00	8,796.00	16,471.35	9,673.00	53.02	56.01	157.93	-4,464.38	3,132.63	945.26	840.65	104.61	9.036	
15,600.00	8,796.00	16,571.35	9,673.00	52.78	55.78	157.93	-4,364.38	3,132.19	945.26	839.41	105.85	8.930	
15,700.00	8,796.00	16,671.35	9,673.00	52.54	55.54	157.93	-4,264.38	3,131.76	945.26	838.16	107.10	8.826	
15,800.00	8,796.00	16,771.35	9,673.00	52.31	55.32	157.93	-4,164.38	3,131.32	945.26	836.89	108.36	8.723	
15,900.00	8,796.00	16,871.35	9,673.00	52.09	55.10	157.93	-4,064.38	3,130.89	945.25	835.63	109.63	8.622	
16,000.00	8,796.00	16,971.35	9,673.00	51.88	54.89	157.93	-3,964.38	3,130.45	945.25	834.35	110.90	8.523	
16,100.00	8,796.00	17,071.35	9,673.00	51.68	54.69	157.93	-3,864.38	3,130.01	945.25	833.07	112.19	8.426	
16,200.00	8,796.00	17,171.35	9,673.00	51.49	54.50	157.93	-3,764.38	3,129.58	945.25	831.77	113.47	8.330	
16,300.00	8,796.00	17,271.35	9,673.00	51.30	54.31	157.93	-3,664.38	3,129.14	945.25	830.48	114.77	8.236	
16,400.00	8,796.00	17,371.35	9,673.00	51.13	54.13	157.93	-3,564.38	3,128.71	945.24	829.17	116.07	8.144	
16,500.00	8,796.00	17,471.35	9,673.00	50.96	53.96	157.93	-3,464.38	3,128.27	945.24	827.86	117.38	8.053	
16,600.00	8,796.00	17,571.35	9,673.00	50.80	53.80	157.93	-3,364.39	3,127.84	945.24	826.54	118.70	7.964	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,700.00	8,796.00	17,671.35	9,673.00	50.65	53.65	157.93	-3,264.39	3,127.40	945.24	825.22	120.02	7.876	
16,800.00	8,796.00	17,771.35	9,673.00	50.51	53.50	157.93	-3,164.39	3,126.97	945.24	823.89	121.34	7.790	
16,900.00	8,796.00	17,871.35	9,673.00	50.38	53.37	157.93	-3,064.39	3,126.53	945.23	822.56	122.68	7.705	
17,000.00	8,796.00	17,971.35	9,673.00	50.26	53.24	157.93	-2,964.39	3,126.10	945.23	821.22	124.01	7.622	
17,100.00	8,796.00	18,071.35	9,673.00	50.15	53.12	157.94	-2,864.39	3,125.66	945.23	819.87	125.36	7.540	
17,200.00	8,796.00	18,171.35	9,673.00	50.05	53.01	157.94	-2,764.39	3,125.22	945.23	818.52	126.70	7.460	
17,300.00	8,796.00	18,271.35	9,673.00	49.97	52.91	157.94	-2,664.39	3,124.79	945.22	817.17	128.06	7.381	
17,400.00	8,796.00	18,371.35	9,673.00	49.89	52.82	157.94	-2,564.39	3,124.35	945.22	815.81	129.41	7.304	
17,500.00	8,796.00	18,471.35	9,673.00	49.82	52.74	157.94	-2,464.39	3,123.92	945.22	814.44	130.78	7.228	
17,600.00	8,796.00	18,571.35	9,673.00	49.76	52.67	157.94	-2,364.40	3,123.48	945.22	813.08	132.14	7.153	
17,700.00	8,796.00	18,671.35	9,673.00	49.72	52.61	157.94	-2,264.40	3,123.05	945.22	811.70	133.51	7.080	
17,800.00	8,796.00	18,771.35	9,673.00	49.68	52.56	157.94	-2,164.40	3,122.61	945.21	810.33	134.89	7.007	
17,900.00	8,796.00	18,871.35	9,673.00	49.66	52.52	157.94	-2,064.40	3,122.18	945.21	808.94	136.27	6.936	
18,000.00	8,796.00	18,971.35	9,673.00	49.65	52.50	157.94	-1,964.40	3,121.74	945.21	807.56	137.65	6.867	
18,100.00	8,796.00	19,071.35	9,673.00	49.65	52.48	157.94	-1,864.40	3,121.30	945.21	806.17	139.04	6.798	
18,200.00	8,796.00	19,171.35	9,673.00	49.66	52.48	157.94	-1,764.40	3,120.87	945.21	804.78	140.43	6.731	
18,300.00	8,796.00	19,271.35	9,673.00	49.69	52.48	157.94	-1,664.40	3,120.43	945.20	803.38	141.82	6.665	
18,400.00	8,796.00	19,371.35	9,673.00	49.73	52.50	157.94	-1,564.40	3,120.00	945.20	801.98	143.22	6.600	
18,500.00	8,796.00	19,471.35	9,673.00	49.78	52.54	157.94	-1,464.40	3,119.56	945.20	800.58	144.62	6.536	
18,600.00	8,796.00	19,571.35	9,673.00	49.84	52.58	157.94	-1,364.40	3,119.13	945.20	799.17	146.02	6.473	
18,700.00	8,796.00	19,671.35	9,673.00	49.92	52.64	157.94	-1,264.41	3,118.69	945.19	797.76	147.43	6.411	
18,800.00	8,796.00	19,771.35	9,673.00	50.01	52.71	157.94	-1,164.41	3,118.26	945.19	796.35	148.84	6.350	
18,900.00	8,796.00	19,871.35	9,673.00	50.12	52.80	157.94	-1,064.41	3,117.82	945.19	794.93	150.26	6.290	
19,000.00	8,796.00	19,971.35	9,673.00	50.24	52.90	157.94	-964.41	3,117.38	945.19	793.51	151.67	6.232	
19,100.00	8,796.00	20,071.35	9,673.00	50.37	53.01	157.94	-864.41	3,116.95	945.19	792.09	153.09	6.174	
19,200.00	8,796.00	20,171.35	9,673.00	50.51	53.13	157.94	-764.41	3,116.51	945.18	790.67	154.52	6.117	
19,300.00	8,796.00	20,271.35	9,673.00	50.67	53.27	157.94	-664.41	3,116.08	945.18	789.24	155.94	6.061	
19,400.00	8,796.00	20,371.35	9,673.00	50.85	53.43	157.94	-564.41	3,115.64	945.18	787.81	157.37	6.006	
19,500.00	8,796.00	20,471.35	9,673.00	51.03	53.59	157.94	-464.41	3,115.21	945.18	786.38	158.80	5.952	
19,600.00	8,796.00	20,571.35	9,673.00	51.23	53.89	157.94	-364.41	3,114.77	945.18	785.20	159.98	5.908	
19,634.41	8,796.00	20,605.76	9,673.00	51.30	54.72	157.94	-330.00	3,114.62	945.17	784.83	160.35	5.895	

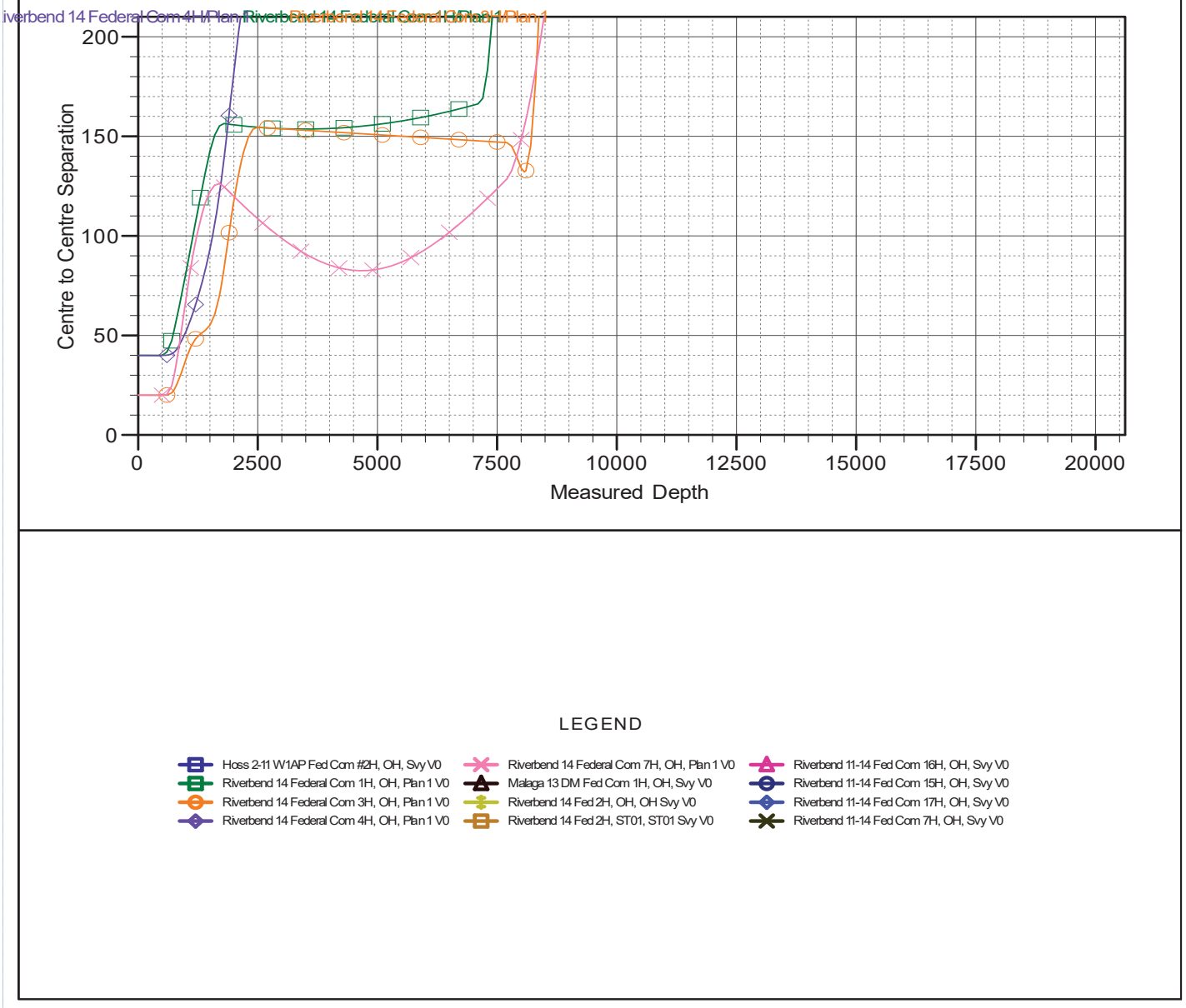
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to 2935' GL + 23 @ 2958.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Riverbend 14 Federal Com 8H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.15°

Ladder Plot



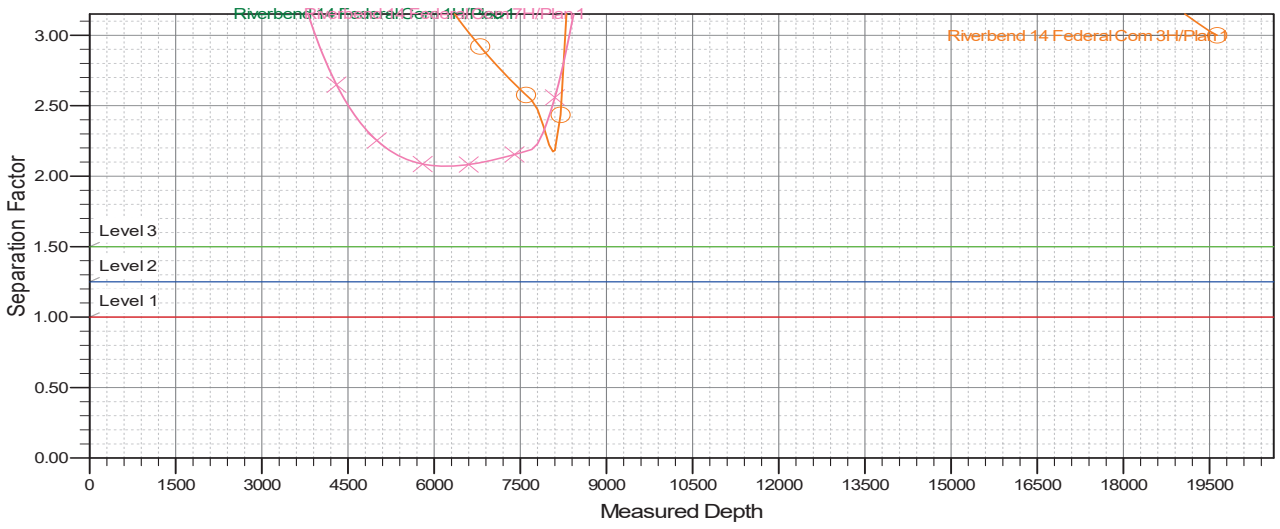
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 8H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 8H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to 2935' GL + 23 @ 2958.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Riverbend 14 Federal Com 8H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.15°

Separation Factor Plot



LEGEND

Hoss 2-11 W1AP Fed Com #2H, OH, Svy V0	Riverbend 14 Federal Com 7H, OH, Plan 1 V0	Riverbend 11-14 Fed Com 16H, OH, Svy V0
Riverbend 14 Federal Com 1H, OH, Plan 1 V0	Malaga 13 DM Fed Com 1H, OH, Svy V0	Riverbend 11-14 Fed Com 15H, OH, Svy V0
Riverbend 14 Federal Com 3H, OH, Plan 1 V0	Riverbend 14 Fed 2H, OH, OH Svy V0	Riverbend 11-14 Fed Com 17H, OH, Svy V0
Riverbend 14 Federal Com 4H, OH, Plan 1 V0	Riverbend 14 Fed 2H, ST01, ST01 Svy V0	Riverbend 11-14 Fed Com 7H, OH, Svy V0

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Cimarex Energy Co. of Colorado **OGRID:** 162683 **Date:** 5/14/2025

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Riverbend 14 Fed Com 8H		Sec 11 T25S, R28E	264 FSL/1840 FWL	1550	3100	4106

IV. Central Delivery Point Name: Riverbend CTB [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Riverbend 14 Fed Com 8H		12/4/2025	3/27/2026	8/26/2026	9/19/2026	9/19/2026

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:	Shelly Bowen
Printed Name:	Shelly Bowen
Title:	Sr. Regulatory Analyst
E-mail Address:	shelly.bowen@coterra.com
Date:	5/14/2025
Phone:	432/6201644

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

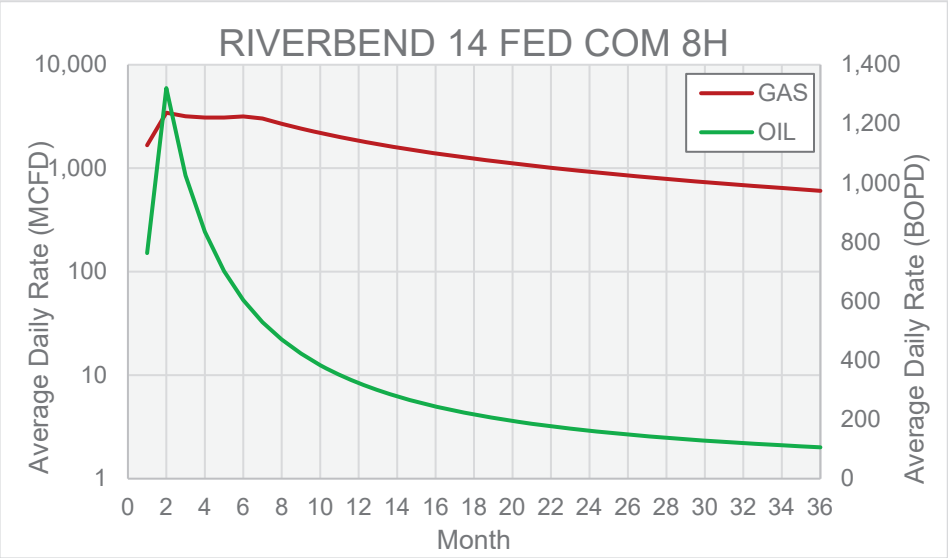
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

From State of New Mexico, Natural Gas Management Plan

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

XEC Standard Response

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.


RIVERBEND 14 FED COM 8H
GAS
OIL
Average Daily Rate (MCFD)
Average Daily Rate (BOPD)
Month
10,000
1,000
100
10
1
1,400
1,200
1,000
800
600
400
200
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36

RIVERBEND 14 FED COM 8H	RIVERBEND 14 FED COM 8H
GAS MCFD	OIL BOPD
1,667	763
3,437	1,321
3,177	1,025
3,079	835
3,082	702
3,159	604
3,017	529
2,681	470
2,410	423
2,186	384
1,999	351
1,841	323
1,704	299
1,586	278
1,482	260
1,390	244
1,309	230
1,236	217
1,171	205
1,112	195
1,058	186
1,009	177
964	169
923	162
885	155
850	149
817	143
787	138
759	133
732	129
708	124
685	120
663	116
642	113
623	109
605	106

Cimarex
VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
    a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
5. Under routine production operations, Cimarex will not flare/vent unless:
    a. Venting or flaring occurs due to an emergency or equipment malfunction.
    b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
    c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
    d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
    e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
    f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
    g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
    h. Venting or flaring occurs as a result of normal dehydration unit operations.

i. Venting or flaring occurs as a result of bradenhead testing.
j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
k. Venting or flaring occurs as a result of a packer leakage test.
l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.

6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc…
9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
    a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
    b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
    a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

- **Workovers:**
  - Always strive to kill well when performing downhole maintenance.
  - If vapors or trapped pressure is present and must be relieved then:
    - Initial blowdown to production facility:
      - Route vapors to LP flare if possible/applicable
    - Blowdown to portable gas buster tank:
      - Vent to existing or portable flare if applicable.

- **Stock tank servicing:**
  - Minimize time spent with thief hatches open.
  - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
    - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
  - Isolate the vent lines and overflows on the tank being serviced from other tanks.

- **Pressure vessel/compressor servicing and associated blowdowns:**
  - Route to flare where possible.
  - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
  - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
  - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

- **Flare/combustor maintenance:**
  - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
  - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
  - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.

RIVERBEND 14 FEDERAL COM 1H 264' FSL 1,880' FWL	RIVERBEND 14 FEDERAL COM 3H 264' FSL 1,860' FWL
RIVERBEND 14 FEDERAL COM 8H 264' FSL 1,840' FWL	RIVERBEND 14 FEDERAL COM 4H 264' FSL 1,800' FWL
RIVERBEND 14 FEDERAL COM 7H 264' FSL 1,820' FWL	

CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

"A" "B" "C" "D"

5 F-4.3' El. 33.9'

6 F-8.4' El. 29.8'

7 F-12.3' El. 25.9'

Alternate Egress

Approximate Topsoil Fill Area

N00°24'38"W 110'

F-2.5' El. 35.7' 4H 7H 8H 3H 1H F-3.7' El. 34.5'

4 F-0.1' El. 38.1'

Approx. Center of Pad (NAD 83)
Lat: 32°08'16.95"
Long: -104°03'38.71"

8 F-7.1' El. 31.1'

C-0.3' El. 38.5' SHL SHL SHL

F-0.5' El. 37.7'

9 C-0.2' El. 38.4'

3 C-5.7' El. 43.9'

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Approx. Top of Cut Slope

Satellite Pad

1 10

2 C-1.0' El. 39.2'

Section Line

Section 11

Section 14

Existing Anchor

Existing Power Pole (Typ.)

Existing Power Line

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Edge of Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

FINISHED GRADE ELEVATION = 2,938'

NOTE: Earthwork Calculations Require a Fill @ some Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

UINTAH ENGINEERING & LAND SURVEYING

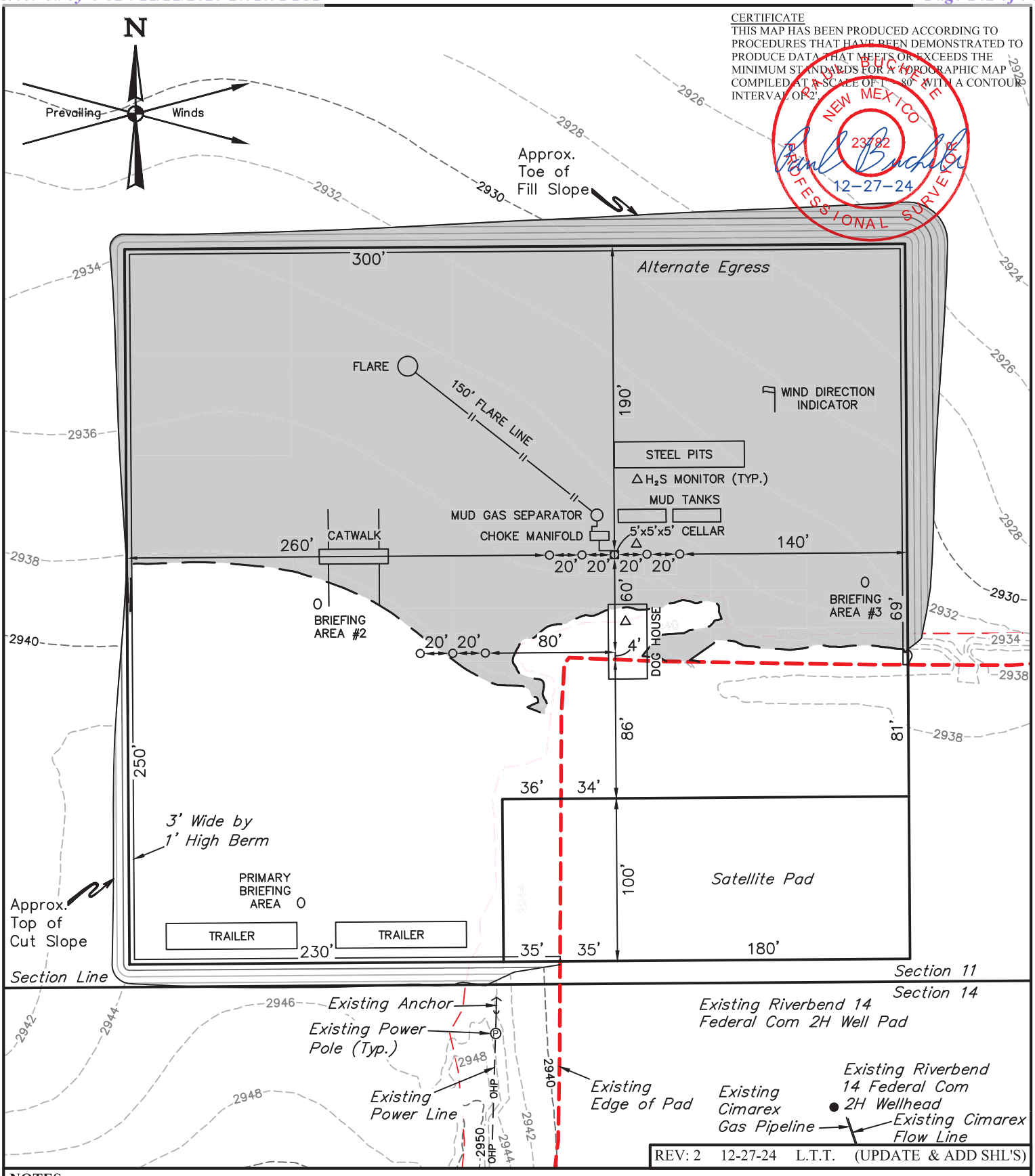
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'

LOCATION LAYOUT **EXHIBIT J**



REV: 2 12-27-24 L.T.T. (UPDATE & ADD SHL'S)

NOTES:

- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H..	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'
TYPICAL RIG LAYOUT			EXHIBIT K

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Cimarex Energy Co. of Colorado **OGRID:** 162683 **Date:** 5/14/2025

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Riverbend 14 Fed Com 8H		Sec 11 T25S, R28E	264 FSL/1840 FWL	1550	3100	4106

IV. Central Delivery Point Name: Riverbend CTB [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Riverbend 14 Fed Com 8H		12/4/2025	3/27/2026	8/26/2026	9/19/2026	9/19/2026

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:	Shelly Bowen
Printed Name:	Shelly Bowen
Title:	Sr. Regulatory Analyst
E-mail Address:	shelly.bowen@coterra.com
Date:	5/14/2025
Phone:	432/6201644

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

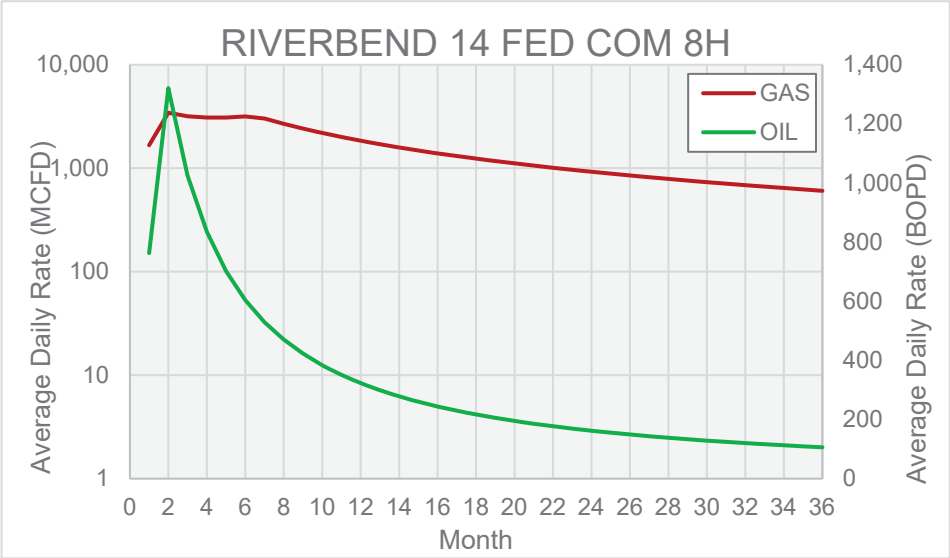
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

From State of New Mexico, Natural Gas Management Plan

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

XEC Standard Response

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.


RIVERBEND 14 FED COM 8H
GAS
OIL
Average Daily Rate (MCFD)
Average Daily Rate (BOPD)
Month
10,000
1,000
100
10
1
1,400
1,200
1,000
800
600
400
200
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36

RIVERBEND 14 FED COM 8H	RIVERBEND 14 FED COM 8H
GAS MCFD	OIL BOPD
1,667	763
3,437	1,321
3,177	1,025
3,079	835
3,082	702
3,159	604
3,017	529
2,681	470
2,410	423
2,186	384
1,999	351
1,841	323
1,704	299
1,586	278
1,482	260
1,390	244
1,309	230
1,236	217
1,171	205
1,112	195
1,058	186
1,009	177
964	169
923	162
885	155
850	149
817	143
787	138
759	133
732	129
708	124
685	120
663	116
642	113
623	109
605	106

Cimarex
VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
    a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
5. Under routine production operations, Cimarex will not flare/vent unless:
    a. Venting or flaring occurs due to an emergency or equipment malfunction.
    b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
    c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
    d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
    e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
    f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
    g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
    h. Venting or flaring occurs as a result of normal dehydration unit operations.

i. Venting or flaring occurs as a result of bradenhead testing.
j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
k. Venting or flaring occurs as a result of a packer leakage test.
l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.

6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc…
9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
    a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
    b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
    a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

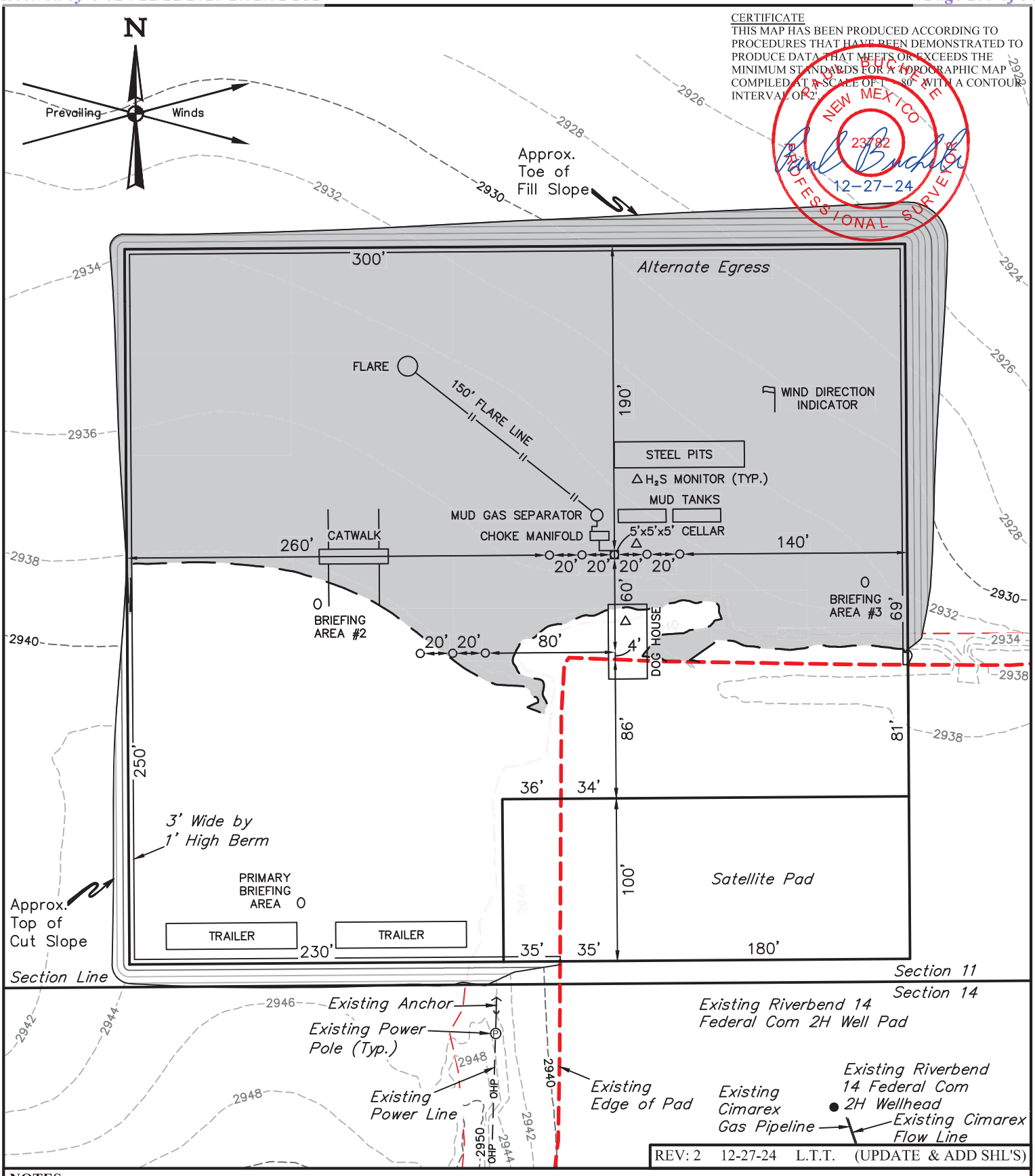
- **Workovers:**
  - Always strive to kill well when performing downhole maintenance.
  - If vapors or trapped pressure is present and must be relieved then:
    - Initial blowdown to production facility:
      - Route vapors to LP flare if possible/applicable
    - Blowdown to portable gas buster tank:
      - Vent to existing or portable flare if applicable.

- **Stock tank servicing:**
  - Minimize time spent with thief hatches open.
  - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
    - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
  - Isolate the vent lines and overflows on the tank being serviced from other tanks.

- **Pressure vessel/compressor servicing and associated blowdowns:**
  - Route to flare where possible.
  - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
  - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
  - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

- **Flare/combustor maintenance:**
  - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
  - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
  - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.



REV: 2	12-27-24	L.T.T.	(UPDATE & ADD SHL'S)

NOTES:

- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H..	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'
TYPICAL RIG LAYOUT			EXHIBIT K

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

RIVERBEND 14 FEDERAL COM 1H 264' FSL 1,880' FWL	RIVERBEND 14 FEDERAL COM 3H 264' FSL 1,860' FWL
RIVERBEND 14 FEDERAL COM 8H 264' FSL 1,840' FWL	RIVERBEND 14 FEDERAL COM 4H 264' FSL 1,800' FWL
RIVERBEND 14 FEDERAL COM 7H 264' FSL 1,820' FWL	

CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

"A" "B" "C" "D"

5 F-4.3' El. 33.9'

6 F-8.4' El. 29.8'

7 F-12.3' El. 25.9'

Alternate Egress

Approximate Topsoil Fill Area

N00°24'38"W 110'

F-2.5' El. 35.7' 4H 7H 8H 3H 1H F-3.7' El. 34.5'

4 F-0.1' El. 38.1'

Approx. Center of Pad (NAD 83)
Lat: 32°08'16.95"
Long: -104°03'38.71"

8 F-7.1' El. 31.1'

C-0.3' El. 38.5' SHL SHL SHL

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9 C-0.2' El. 38.4'

3 C-5.7' El. 43.9'

2 C-1.0' El. 39.2'

1 10

Satellite Pad

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Approx. Top of Cut Slope

Section Line

Section 11

Section 14

Existing Anchor
Existing Power Pole (Typ.)

Existing Power Line

Existing Edge of Pad

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

FINISHED GRADE ELEVATION = 2,938'

NOTE: Earthwork Calculations Require a Fill @ some Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
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SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'
LOCATION LAYOUT			EXHIBIT J

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells. Before skidding the rig, a TA cap is installed on the subject well.

Variance Request #3: Omit the DV Tool from the Intermediate Casing

Coterra requests approval to omit the DV tool from the intermediate casing string. In lieu of a DV tool, Coterra will retain the option to pump down the intermediate annulus through casing valves with the appropriate cement slurry in the event returns to surface are not achieved on the primary job.

Variance Request #4: Utilize Co-Flex Choke Line

Coterra requests approval to utilize a co-flex choke line between the BOP and choke manifold. Certification for the proposed co-flex choke line is attached. The choke line is not required by the manufacturer to be anchored. In the event the specific co-flex choke line is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

Customer Name			
Product Name	Choke And Kill Hose		
Product Specification	3″×10000psi×35ft（10.67m）	Quantity	1PCS
Serial Number	VTC-7660257	FSL	FSL3
customer number	PO890145-001	Standard	API Spec 16C 3rd edition
Temperature Range	-29℃～+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3rd edition
Size and Lengths	In accordance with API Spec 16C 3rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3rd edition
End Connections: 4-1/16″×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21st edition
End Connections: 4-1/16″×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3rd edition
product Marking	In accordance with API Spec 16C 3rd edition
Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition
Remarks	16C-0403

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

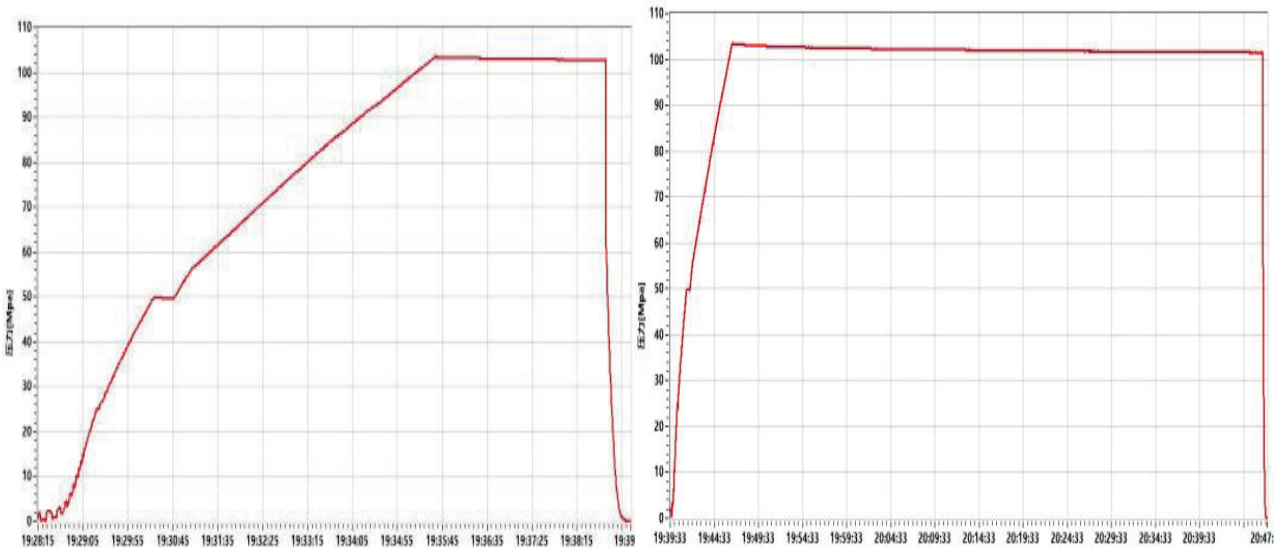
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd edition
Product Specification	3″×10000psi×35ft（10.67m）	Serial Number	VTC-7660257
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
customer number	PO890145-001	Inspection Date	2024.08.30
Rate of length change			
Standard requirements	At working pressure ,the rate of length change should not more than ±2%		
Testing result	10000psi (69.0MPa) ,Rate of length change 0.6%		
Hydrostatic testing			
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leakage.		
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage		

Graph of pressure testing：



Conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition 16C-0403				
Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

Product Specification：3″×10000psi×35ft（10.67m）

Serial Number：VTC-7660257

customer number：PO890145-001

End Connections: 4-1/16″×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Sep,2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Sep 3, 2024. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

QC Manager： Jane C Date:Sep 3, 2024

16C-0403

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE

Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells. Before skidding the rig, a TA cap is installed on the subject well.

Variance Request #3: Omit the DV Tool from the Intermediate Casing

Coterra requests approval to omit the DV tool from the intermediate casing string. In lieu of a DV tool, Coterra will retain the option to pump down the intermediate annulus through casing valves with the appropriate cement slurry in the event returns to surface are not achieved on the primary job.

Variance Request #4: Utilize Co-Flex Choke Line

Coterra requests approval to utilize a co-flex choke line between the BOP and choke manifold. Certification for the proposed co-flex choke line is attached. The choke line is not required by the manufacturer to be anchored. In the event the specific co-flex choke line is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

Customer Name			
Product Name	Choke And Kill Hose		
Product Specification	3″×10000psi×35ft（10.67m）	Quantity	1PCS
Serial Number	VTC-7660257	FSL	FSL3
customer number	PO890145-001	Standard	API Spec 16C 3rd edition
Temperature Range	-29℃～+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3rd edition
Size and Lengths	In accordance with API Spec 16C 3rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3rd edition
End Connections: 4-1/16″×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21st edition
End Connections: 4-1/16″×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3rd edition
product Marking	In accordance with API Spec 16C 3rd edition
Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition
Remarks	16C-0403

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

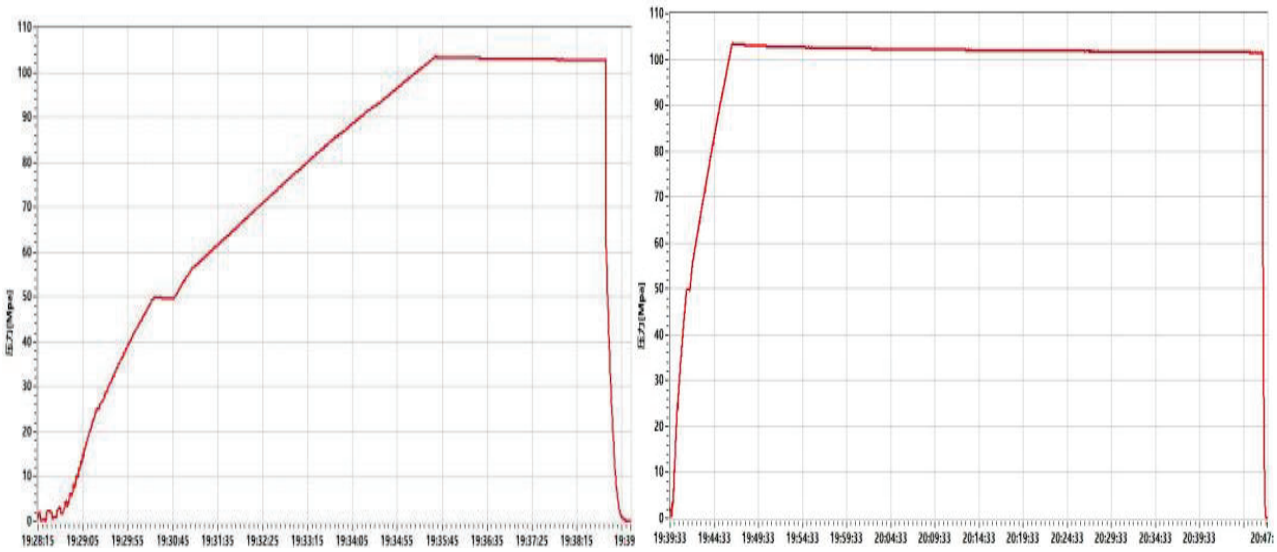
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd edition
Product Specification	3″×10000psi×35ft（10.67m）	Serial Number	VTC-7660257
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
customer number	PO890145-001	Inspection Date	2024.08.30
Rate of length change			
Standard requirements	At working pressure ,the rate of length change should not more than ±2%		
Testing result	10000psi (69.0MPa) ,Rate of length change 0.6%		
Hydrostatic testing			
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leakage.		
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage		

Graph of pressure testing：



Conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition 16C-0403				
Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

Product Specification：3″×10000psi×35ft（10.67m）

Serial Number：VTC-7660257

customer number：PO890145-001

End Connections: 4-1/16″×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Sep,2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Sep 3, 2024. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

QC Manager： Jane C Date:Sep 3, 2024

16C-0403

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE

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

SUPO Data Report
11/06/2025

APD ID: 10400105785 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Well Type: OIL 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:

RIVERBEND_14_FEDERAL_E2W2_existing_road_plat_20250625115939.pdf
RIVERBEND_14_FEDERAL_E2W2_existing_road_plat_20250912084744.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? NO

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

RIVERBEND_14_FEDERAL_E2W2_well_radius_plat_20250625120003.pdf
RIVERBEND_14_FEDERAL_E2W2_well_radius_plat_20250912084800.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: An existing battery will be utilized and expanded an additional 2.669 acres for the pad, + 0.294 for overhead powerlines for a total of 2.993 acres of total additional disturbance.
Production Facilities map:

D_24550_20_100__GENERAL_ARRANGEMENT_PLOT_PLAN_Rev.0__1__20250625120209.pdf
RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250625121035.pdf
D_24550_20_100__GENERAL_ARRANGEMENT_PLOT_PLAN_Rev.0__1__20250912084813.pdf
RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250912084826.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: MUNICIPAL

Water source use type: SURFACE CASING
INTERMEDIATE/PRODUCTION CASING

Source latitude: **Source longitude:**

Source datum:

City: Carlsbad

Water source permit type: WATER RIGHT

Permit Number:

Water source transport method: TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 5000 **Source volume (acre-feet):** 0.64446548

Source volume (gal): 210000

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Water source and transportation

Riverbend_12_13_Fed_Com_W2E2_Drilling_Water_Source_Route_20200318065926.pdf
Riverbend_12_13_Fed_Com_W2E2_Drilling_Water_Source_Route_20250915163252.pdf

Water source comments:

New water well? N

New Water Well Info

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: In the event that no caliche is found onsite, caliche will be hauled in from BLM-approved caliche pit in SENW Sec 26 24S 28E or SENE Sec 22 25S 28E.
Construction Materials source location

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Drilling Fluids, drill cuttings, water and other waste produced from the well during drilling operations.
Amount of waste: 15000 barrels

Waste disposal frequency : Weekly

Safe containment description: N/A

Safe containmant attachment:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

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

Disposal location description: Haul to R360 Environmental Solutions, 4507 Carlsbad Hwy, Hobbs, NM 88240

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 32500 pounds

Waste disposal frequency : Weekly

Safe containment description: N/A

Safe containmant attachment:

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

Disposal location description: A licensed 3rd party hauls trash to Lea County Landfill

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 300 gallons

Waste disposal frequency : Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal facility.
Safe containmant attachment:

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

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose human waste.

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

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

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?

Cuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250625120357.pdf
RIVERBEND_14_FEDERAL_E2W2_surface_use_plat_20250625120357.pdf
RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250625130036.pdf
RIVERBEND_14_FEDERAL_E2W2_powerline_row_plat_20250625130057.pdf
RIVERBEND_14_FEDERAL_E2W2_bulk_line_row_plat_20250625130057.pdf
RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250912084905.pdf
RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250912084931.pdf
RIVERBEND_14_FEDERAL_E2W2_surface_use_plat_20250912084931.pdf
RIVERBEND_14_FEDERAL_E2W2_powerline_row_plat_20250912084932.pdf
RIVERBEND_14_FEDERAL_E2W2_bulk_line_row_plat_20250912084932.pdf

Comments:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** Riverbend 14 Federal Com

Multiple Well Pad Number: E2W2

Recontouring

RIVERBEND_14_FEDERAL_E2W2_reclamation_plat_20250625120425.pdf

RIVERBEND_14_FEDERAL_E2W2_reclamation_plat_20250912084946.pdf

Drainage/Erosion control construction: To control and prevent potentially contaminated precipitation from leaving the pad site, a perimeter berm and settlement pond will be installed. Contaminated water will be removed from pond, stored in waste tanks, and disposed of at a state approved facility. Standing water or puddles will not be allowed. Drainage ditches would be established and maintained on the pad and along access roads to divert water away from operations. Natural drainage areas disturbed during construction would be re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured, and reclaimed to near original condition to re-establish natural drainage.

Drainage/Erosion control reclamation: All disturbed and re-contoured areas would be reseeded according to specifications. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Well pad proposed disturbance (acres): 2.295 **Well pad interim reclamation (acres):** 2.137 **Well pad long term disturbance (acres):** 0.158

Road proposed disturbance (acres): **Road interim reclamation (acres):** 0 **Road long term disturbance (acres):** 0

Powerline proposed disturbance (acres): 0.325 **Powerline interim reclamation (acres):** 0.325 **Powerline long term disturbance (acres):** 0

Pipeline proposed disturbance (acres): 1.398 **Pipeline interim reclamation (acres):** 1.398 **Pipeline long term disturbance (acres):** 0

Other proposed disturbance (acres): 2.669 **Other interim reclamation (acres):** 0 **Other long term disturbance (acres):** 2.669

Total proposed disturbance: 6.686999999999999 **Total interim reclamation:** 3.8600000000000003 **Total long term disturbance:** 2.827

Disturbance Comments:

Reconstruction method: After well plugging, all disturbed areas would be returned to the original contour or a contour that blends with the surrounding landform including roads unless the surface owner requests that they be left intact. In consultation with the surface owners it will be determined if any gravel or similar materials used to reinforce an area are to be removed, buried, or left in place during final reclamation. Salvaged topsoil, if any, would be re-spread evenly over the surfaces to be re-vegetated. As necessary, the soil surface would be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, scarifying, dozer track-walking, mulching, or fertilizing. Reclamation, Re-vegetation, and Drainage: All disturbed and re-contoured areas would be reseeded using techniques outlined under Phase I and II of this plan or as specified by the land owner. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Topsoil redistribution: The original stock piled topsoil, if any, will be spread evenly over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pad, production facilities, roads, pipelines, and power line corridors as close as possible to the original topography. The

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

location will then be seeded.

Soil treatment: The soil surface would be prepared to provide a seedbed for reestablishment of desirable vegetation. Establish control of erosion and invasion of non-native plants to reestablish plant community.
Existing Vegetation at the well pad: N/A

Existing Vegetation at the well pad

Existing Vegetation Community at the road: N/A

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: N/A

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

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:**

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

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: N/A

Weed treatment plan

Monitoring plan description: N/A

Monitoring plan

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface

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:**

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Disturbance type: PIPELINE

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: TRANSMISSION LINE

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:**

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Disturbance type: OTHER

Describe: CTB

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:**

Section 12 - Other

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

ROW Type(s):

ROW

SUPO Additional Information: Onsite conducted on August 5, 2024 with Brendan Harris & Brandon Carico, Ellen Trout. Casey Jones, Shelly Bowen onsite for Coterra.
Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.2 MILES TO THE EXISTING RIVERBEND 14 FEDERAL COM 2H WELL PAD AND THE PROPOSED LOCATION.

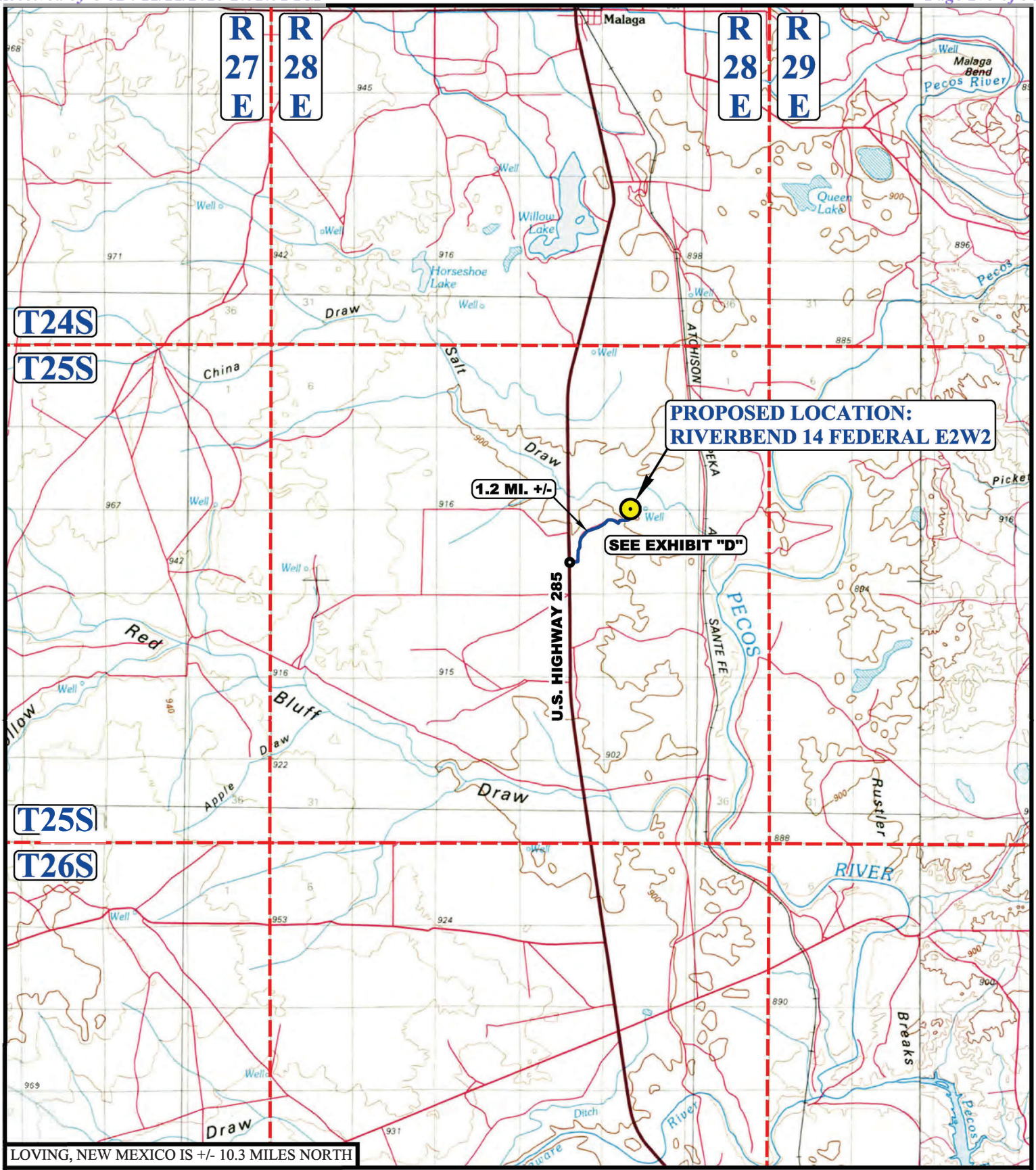
TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.2 MILES.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	
DRAWN BY	D.M.C.	08-20-24	
ROAD DESCRIPTION			**EXHIBIT A**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LEGEND:

⊙ **PROPOSED LOCATION**

N

CIMARE X ENERGY CO.

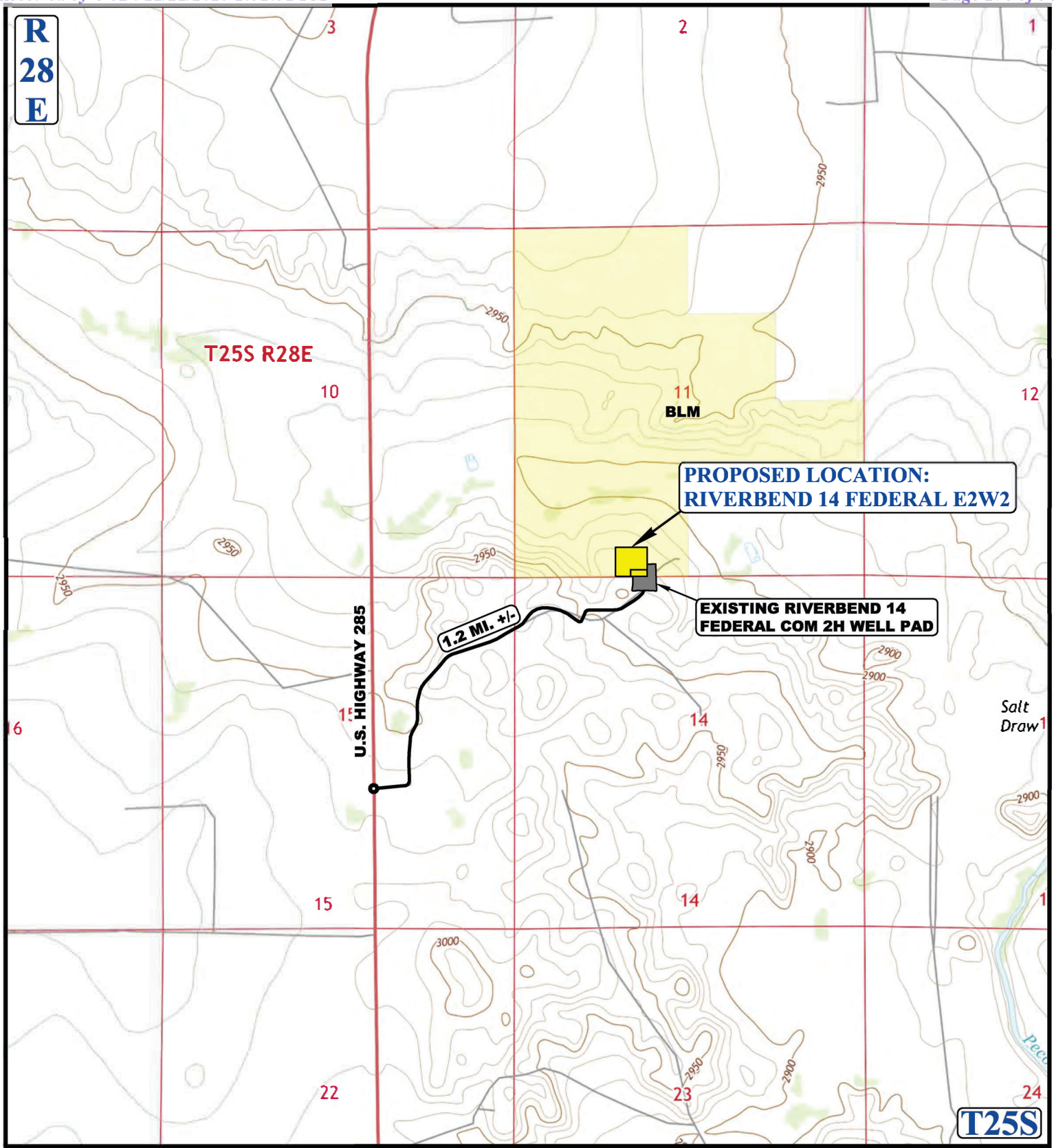
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT B**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

EXISTING ROAD

N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1 : 24,000
NEW ROAD MAP			EXHIBIT D

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.2 MILES TO THE EXISTING RIVERBEND 14 FEDERAL COM 2H WELL PAD AND THE PROPOSED LOCATION.

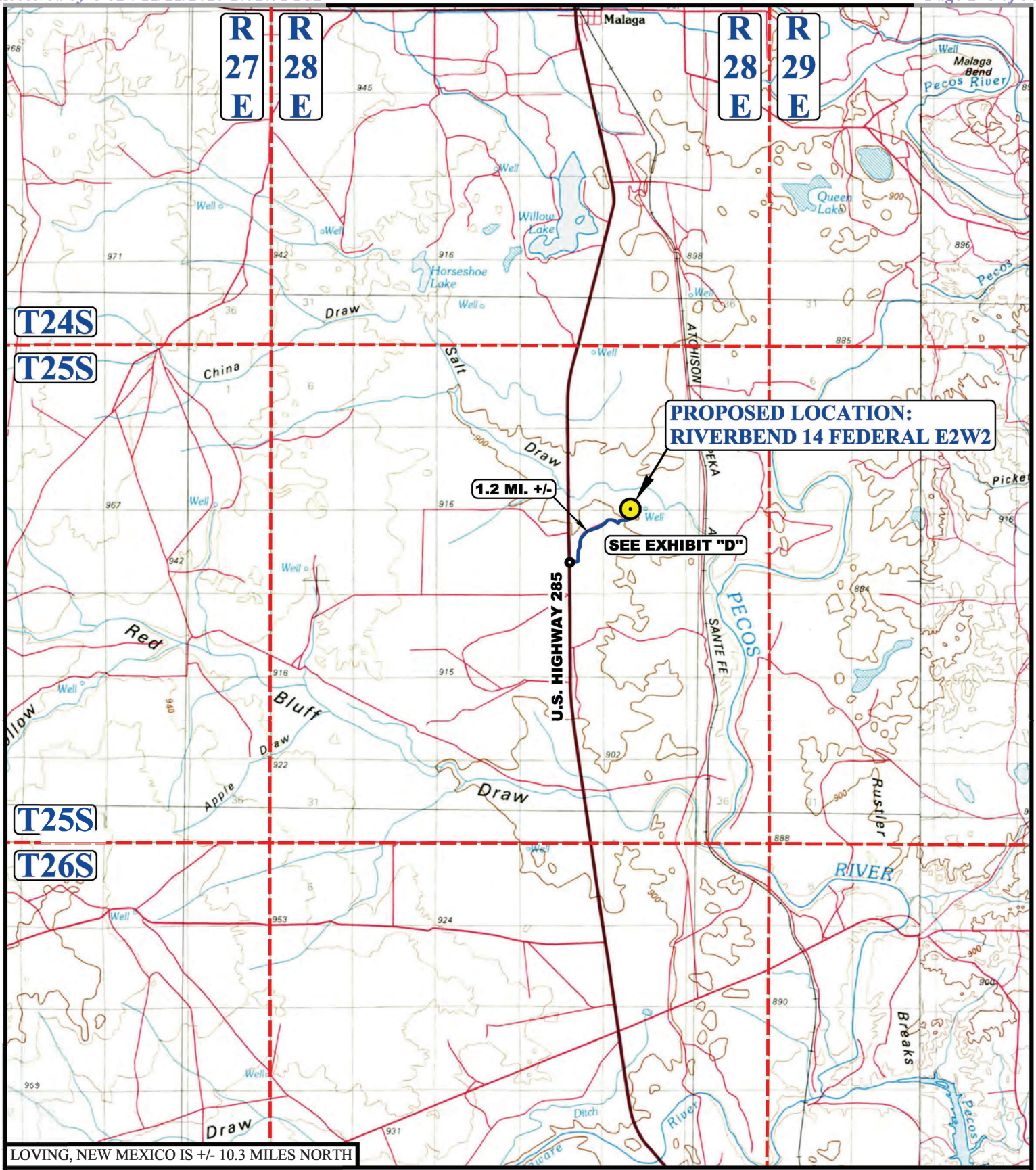
TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.2 MILES.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	
DRAWN BY	D.M.C.	08-20-24	
ROAD DESCRIPTION			**EXHIBIT A**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LOVING, NEW MEXICO IS +/- 10.3 MILES NORTH

LEGEND:

⊙ **PROPOSED LOCATION**

N

CIMARE X ENERGY CO.

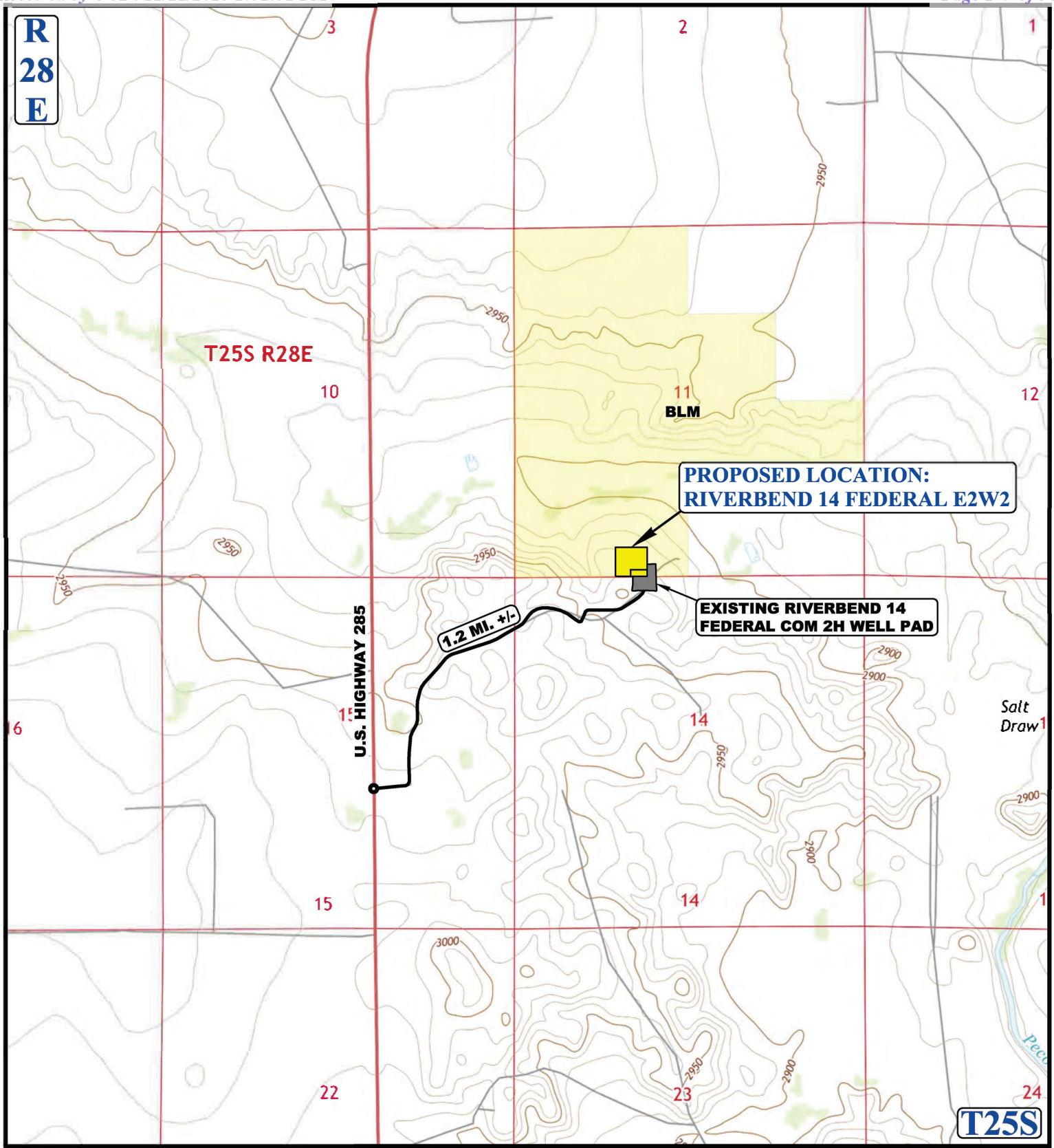
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT B**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

EXISTING ROAD

N

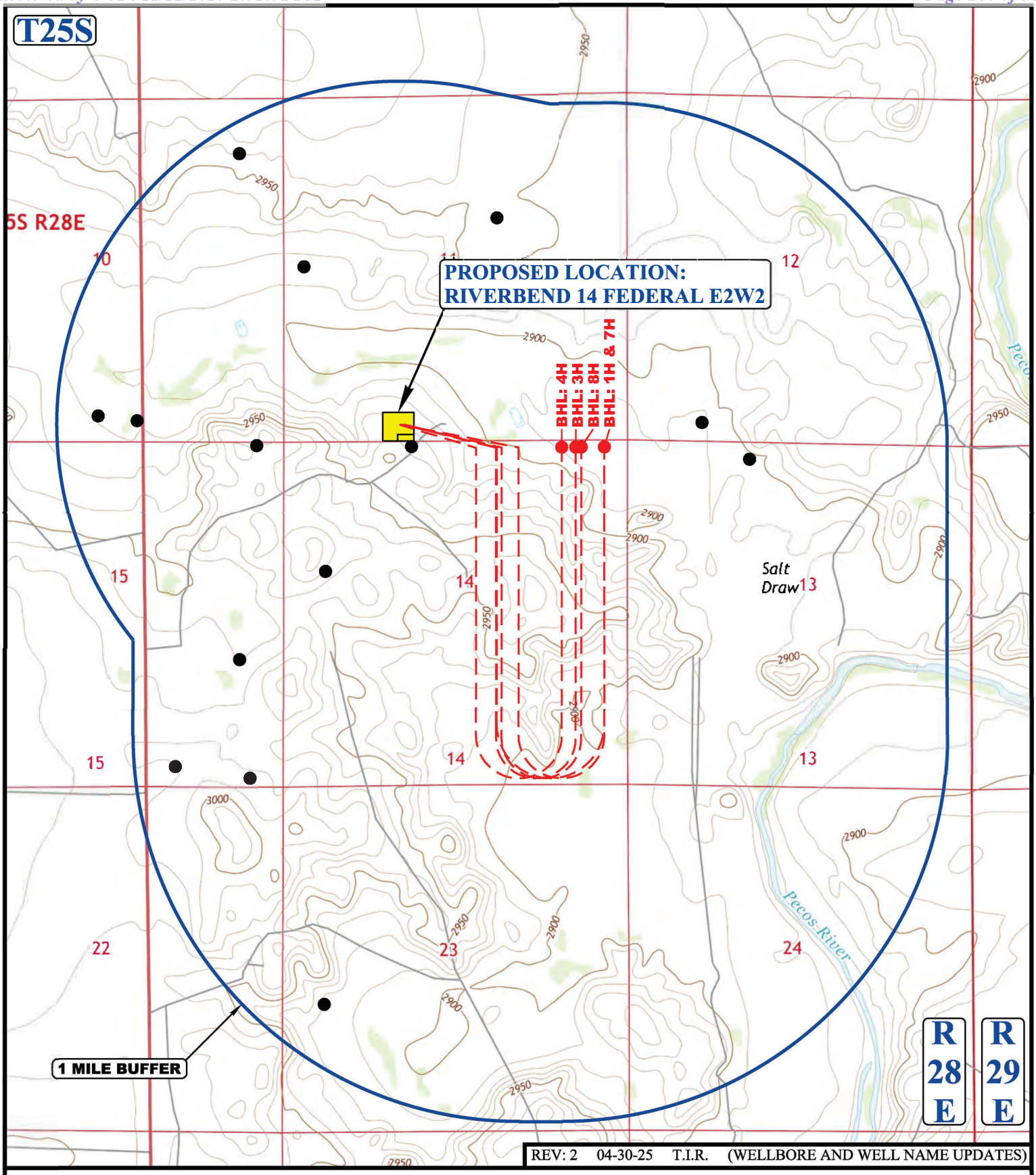
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1 : 24,000
NEW ROAD MAP			EXHIBIT D

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



REV: 2 04-30-25 T.I.R. (WELLBORE AND WELL NAME UPDATES)

LEGEND:

● EXISTING WELLS

N

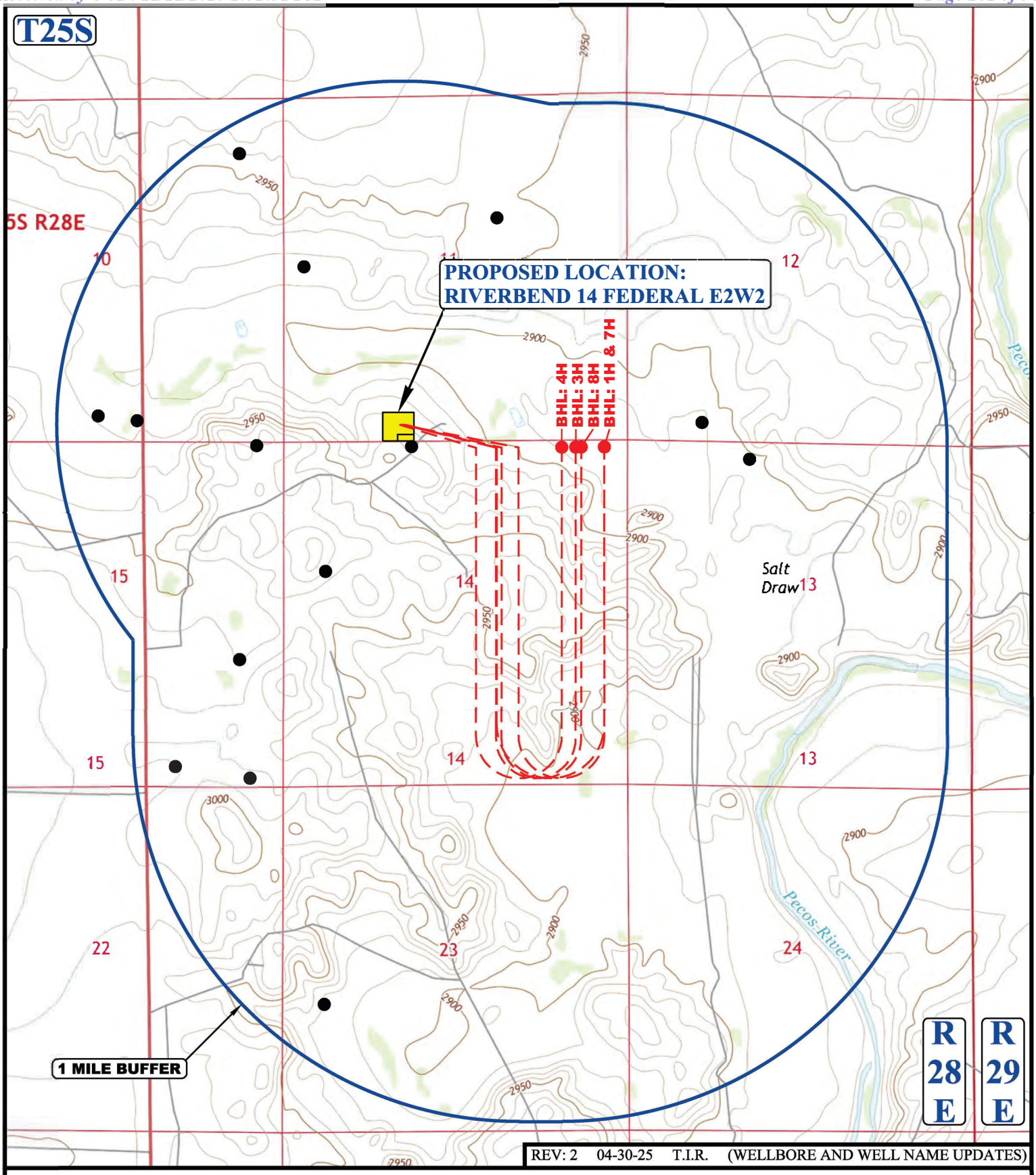
CIMARE X ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1 : 24,000
WELL PROXIMITY MAP			TOPO C

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



REV: 2 04-30-25 T.I.R. (WELLBORE AND WELL NAME UPDATES)

LEGEND:

● EXISTING WELLS

N

CIMARE X ENERGY CO.

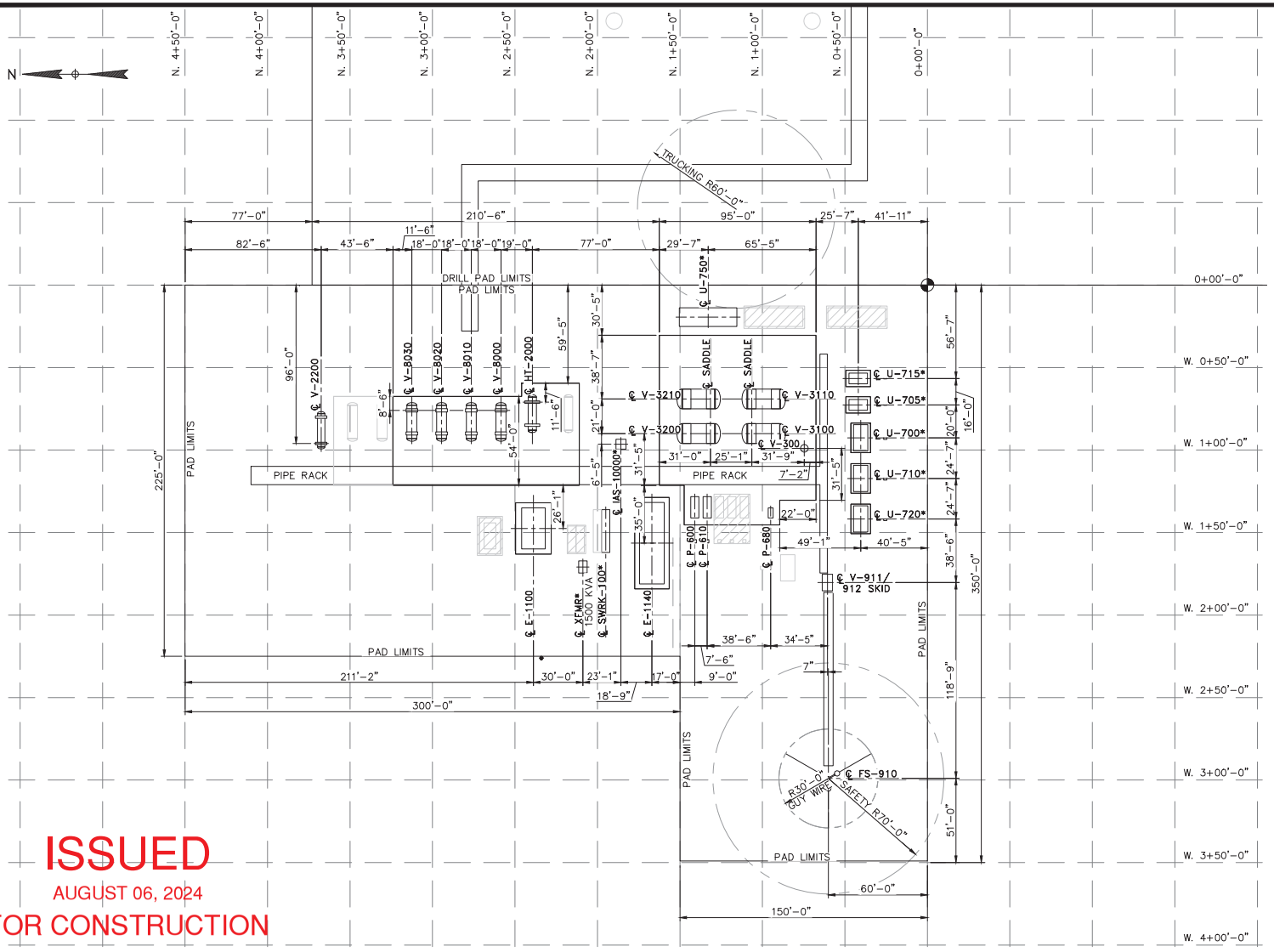
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1 : 24,000
WELL PROXIMITY MAP			TOPO C

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

Released to Imaging: 12/5/2025 2:00:54 PM
Received by OCD: 11/21/2025 2:52:31 PM



EQUIPMENT		
TAG	DESCRIPTION	H
V-300	VAPOR RECOVERY TOWER 36" OD x 40' S/S	
P-600	SKIDDED TRANSFER PUMP	10
P-610	SKIDDED TRANSFER PUMP	10
P-680	PCP RECIRCULATION PUMP	5
U-700	FX12V125	12
U-705	G10	10
U-710	FX17V150	15
U-715	G10	10
U-720	FX17V150	15
U-750	PIPELINE W/ BOOSTER	21
FS-910	TRIPOD 3.0/1.5 MMSCFD DUAL FLARE STACK	20
V-911/912	FS-910 DUAL SCRUBBER SKID	30
E-1100	OIL COOLER H-13-24 HZ 16K	40
E-1140	H-10-2-28 WATER COOLER	40
HT-2000	HZ HEATER TREATER 60" OD x 20' S/S	
V-2200	2PH HZ LP GAS SCRUBBER 54" OD x 20' S/S	
V-3100	500 BBL OIL VESSEL 12' OD x 20' S/S	
V-3110	500 BBL OIL VESSEL 12' OD x 20' S/S	
V-3200	500 BBL WATER VESSEL 12' OD x 20' S/S	
V-3210	500 BBL WATER VESSEL 12' OD x 20' S/S	
V-8000	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8010	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8020	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8030	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
IAS-10000	AIR COMPRESSOR	(2) 7.5

LEGEND

FUTURE

ISSUED

AUGUST 06, 2024

FOR CONSTRUCTION

VESSEL	WELL NAME
V-8000	TRISTE DRAW 36-25 FED COM 401H
V-8010	TRISTE DRAW 36-25 FED COM 351H
V-8020	TRISTE DRAW 36-25 FED COM 402H
V-8030	TRISTE DRAW 36-25 FED COM 352H

NOTE:

LP B4P6; SWEET;

* FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION

REFERENCE DRAWINGS	
NO.	TITLE

REVISIONS					
NO.	DATE	DESCRIPTION	BY	CHK.	APP.
0	08/06/24	ISSUED FOR CONSTRUCTION	NR	JNM	

3S Engineering & Design
Midland, Texas 79705
Ph: 432-687-5611 Arlington, Texas 76011
Katy, Texas 77449
WWW.3SENGINEERINGDESIGN.COM
TBPE FIRM REG. #13809
NM FIRM REG. #4545320

NOTICE

THIS DRAWING HAS NOT BEEN PUBLISHED BUT RATHER HAS BEEN PREPARED BY 3S ENGINEERING & DESIGN, FOR USE BY THE CLIENT NAMED IN THE TITLE BLOCK SOLELY IN RESPECT OF THE CONSTRUCTION, OPERATION AND MAINTENANCE OF FACILITY NAMED IN THE TITLE BLOCK AND SHALL NOT BE USED FOR ANY OTHER PURPOSE, OR FURNISHED TO ANY OTHER PARTY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF 3S ENGINEERING & DESIGN.

ENGINEERING RECORD		
	BY	DATE
DRN:	NR	07/10/24
DES:	JAV	
CHK:		
APP:		
AFE No.		
FACILITY ENGR.	C. BOYLE	
PROJ. ENGR:	J. MEDINA	
SCALE:	NONE	

COTERRA

TRISTE DRAW 36-25 FED COM

GENERAL ARRANGEMENT PLOT PLAN

LEA COUNTY

PLOT SCALE NONE

DWG. NO. D-24550-20-100

REV.

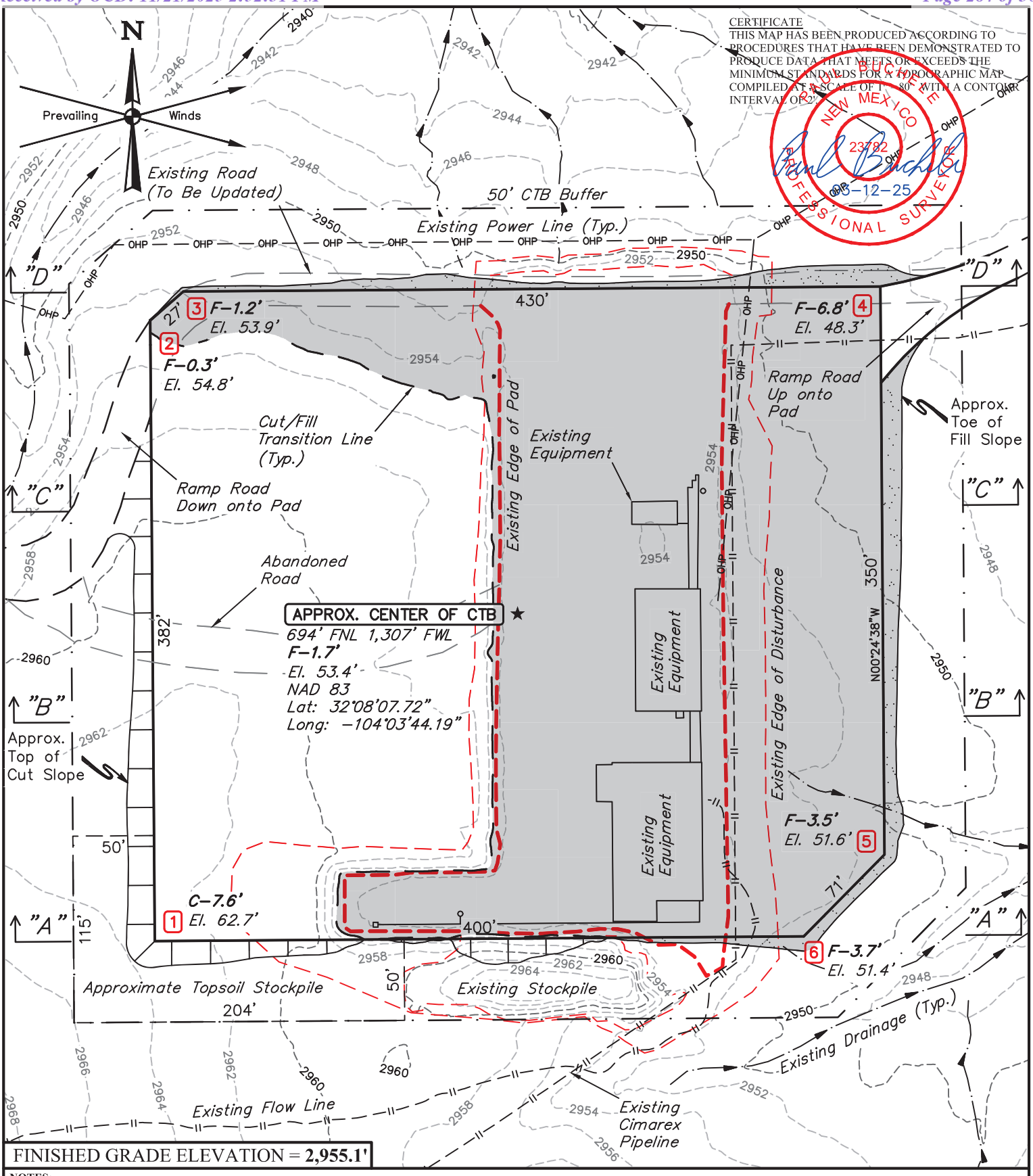
CAD NO.

Q:\01_Coterra\24550 - Triste Draw CTB\2. Eng., Design\2.3 Piping, Mech\2.3.2 Plot Plans\D-24550-20-100.dwg 20240805.101118

CIMAREX ENERGY CO.
RIVERBEND 14 CTB
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DATE:	DESCRIPTION:
3/19/2025	FINAL PLAT PACKAGE

UINTAH
ENGINEERING & LAND SURVEYING



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BRUCE D. BUCHANAN
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
03-12-25

FINISHED GRADE ELEVATION = **2,955.1'**

NOTES:

- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ. except where noted)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

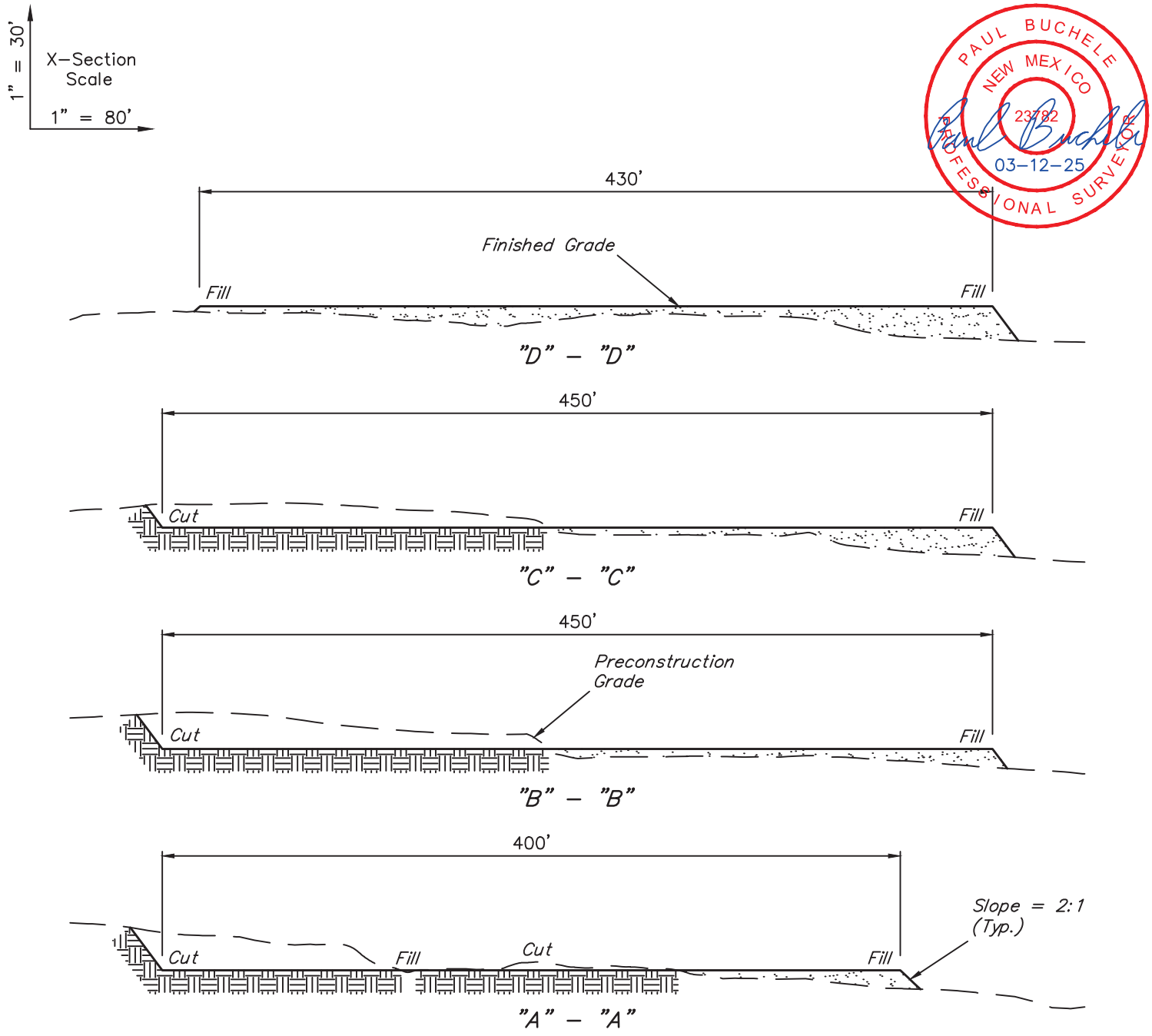
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

UINTAH ENGINEERING & LAND SURVEYING

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
LOCATION LAYOUT			EXHIBIT F



PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
03-12-25

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	1,300 Cu. Yds.
REMAINING LOCATION	10,920 Cu. Yds.
TOTAL CUT	**12,220 Cu. Yds.**
FILL	**10,920 Cu. Yds.**
EXCESS MATERIAL	1,300 Cu. Yds.
TOPSOIL	1,300 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
EXISTING PAD DISTURBANCE	NA	±2.383
PROPOSED EXPANSION DISTURBANCE (NEW CONSTRUCTION ONLY)	NA	±2.669
30' WIDE POWER LINE R-O-W DISTURBANCE	±426.73'	±0.294
TOTAL SURFACE USE AREA		**±5.346**

NOTES:

- Fill quantity includes 5% for compaction.

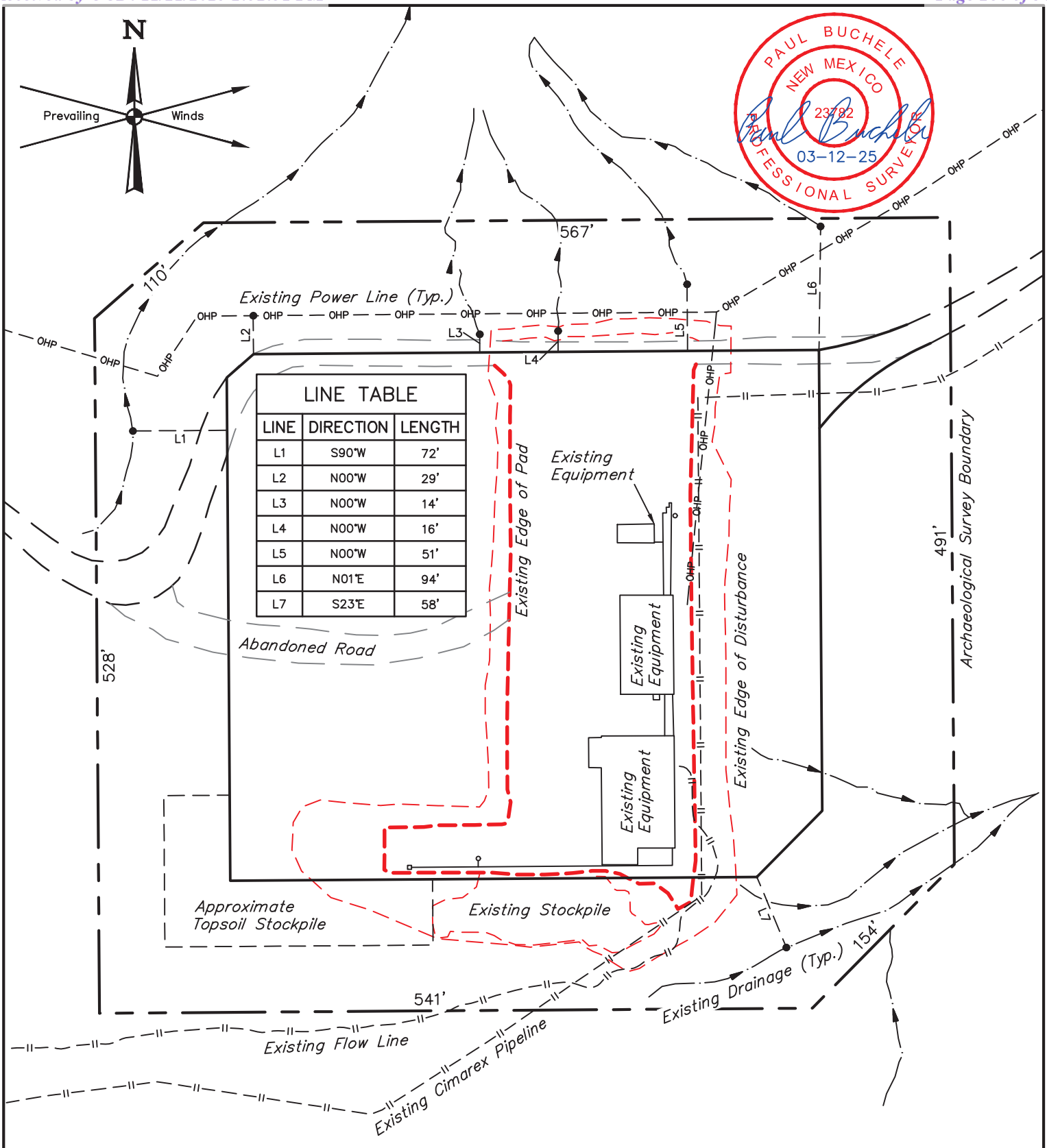
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	**SCALE**
DRAWN BY	N.R.	03-12-25	AS SHOWN
TYPICAL CROSS SECTIONS			**EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

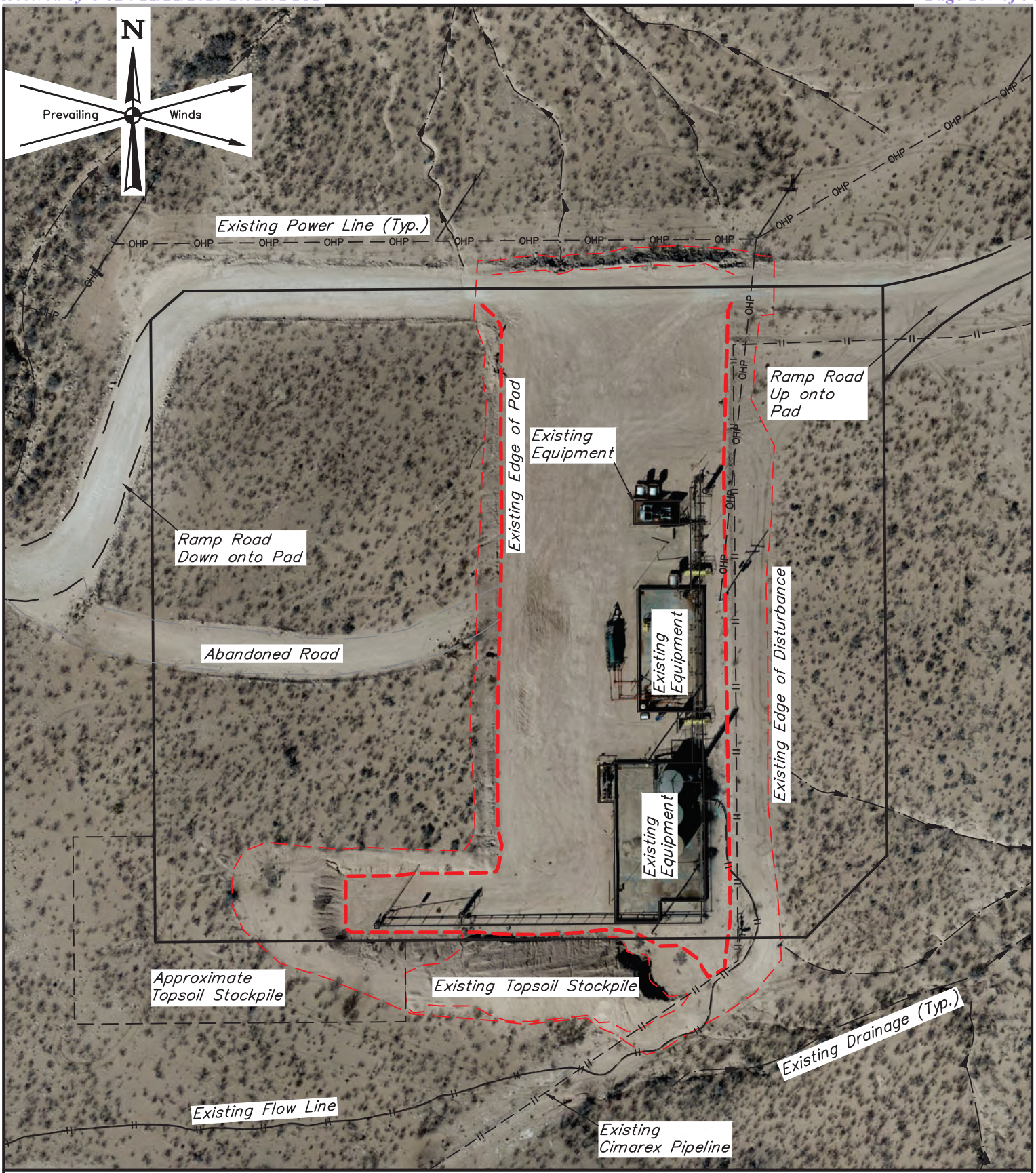
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
AERIAL SITE PLAN			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.0 MILE TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.0 MILES.

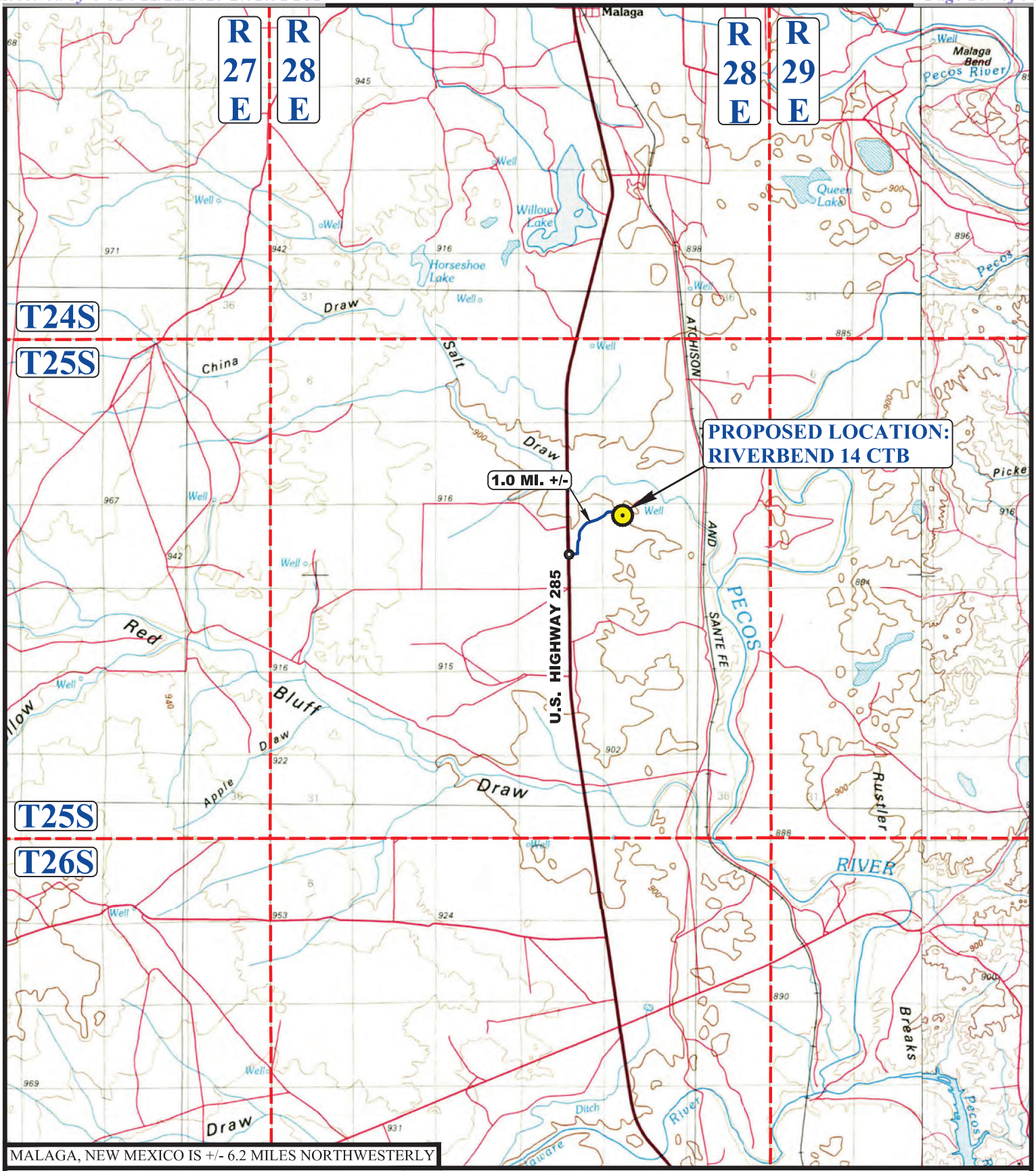
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
NW 1/4 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	

ROAD DESCRIPTION **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

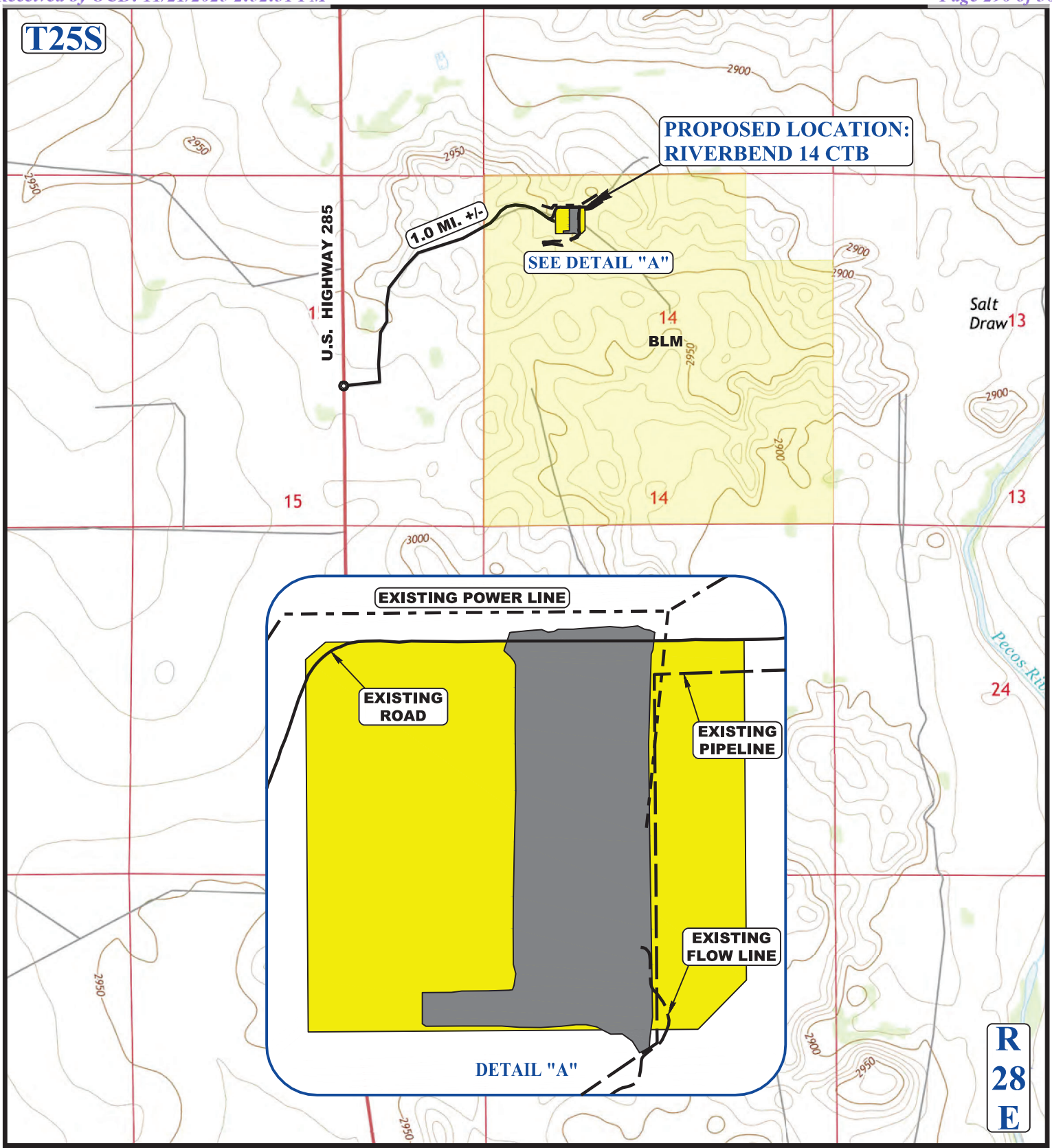
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE/FLOW LINE

N

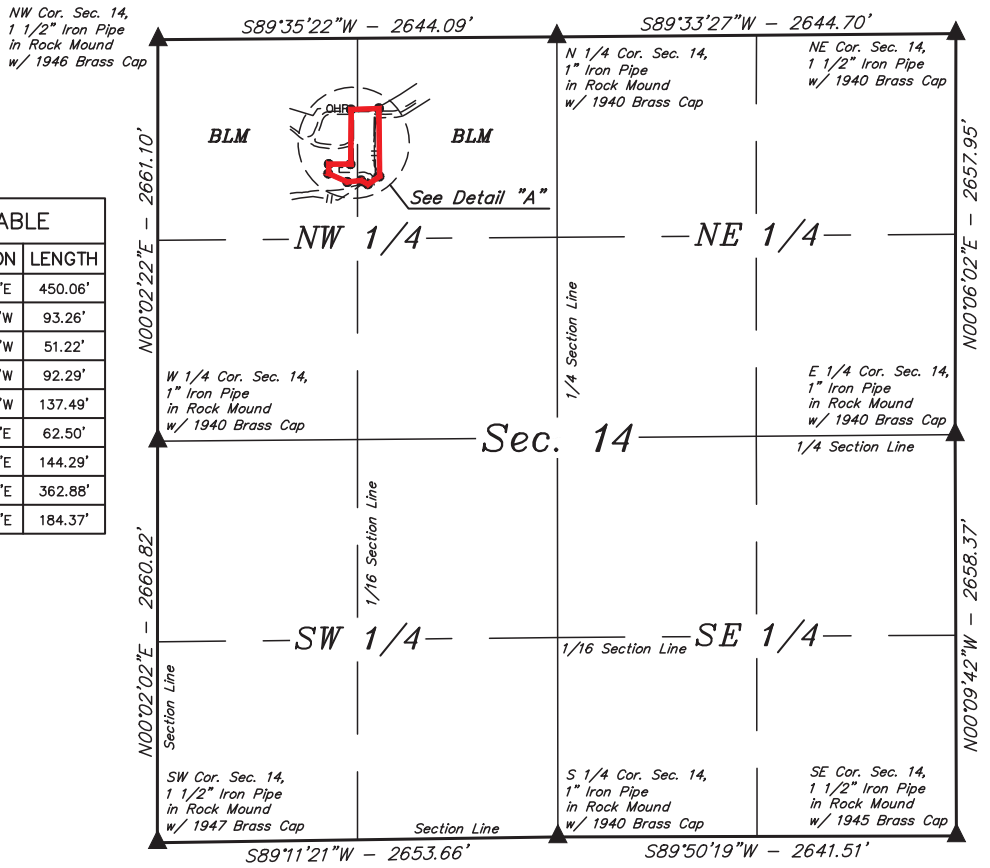
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 24,000

NEW ROAD MAP **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

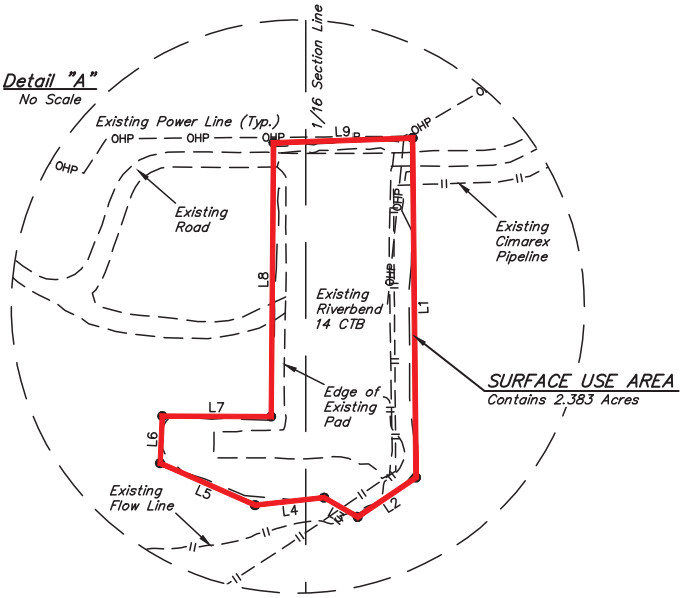


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS S68°03'17"W 1272.60' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE [PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

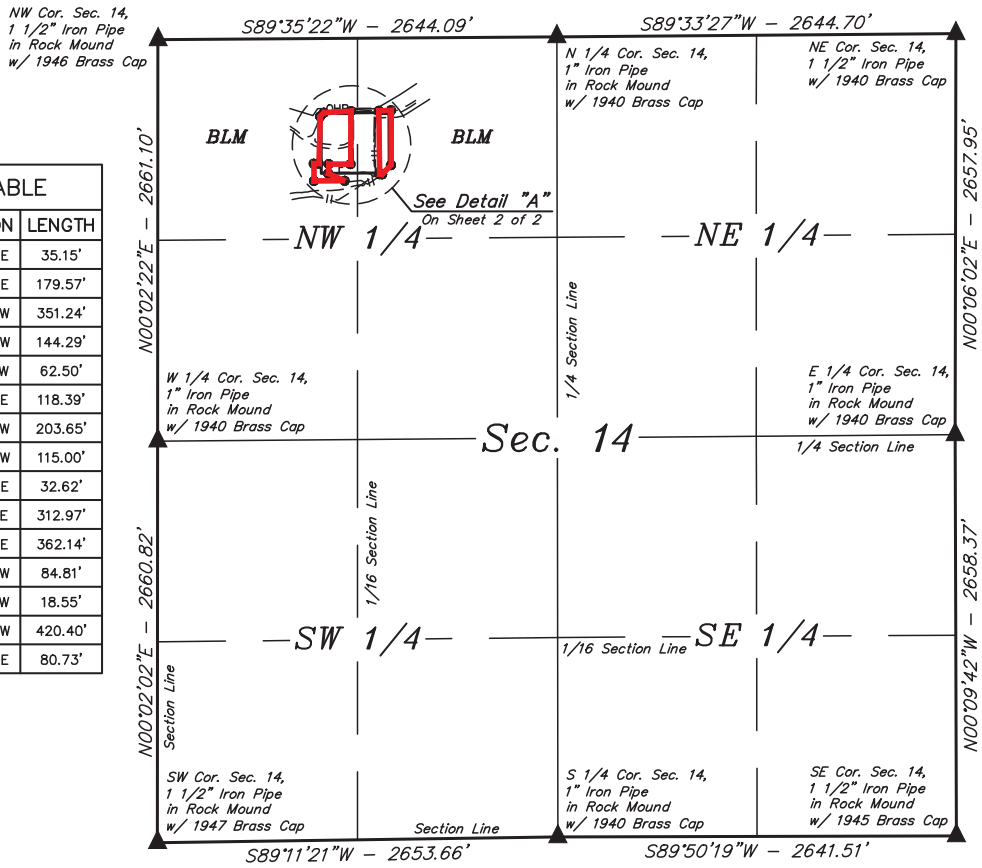
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

N

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		
EXISTING SURFACE USE AREA			EXHIBIT F



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N44°40'42"E	35.15'
L2	N87°00'34"E	179.57'
L3	S00°29'04"W	351.24'
L4	N89°45'49"W	144.29'
L5	S02°41'43"W	62.50'
L6	S66°08'24"E	118.39'
L7	S89°35'22"W	203.65'
L8	N00°24'38"W	115.00'
L9	N89°35'22"E	32.62'
L10	N01°46'53"E	312.97'
L11	S00°04'00"E	362.14'
L12	S43°29'22"W	84.81'
L13	N85°13'30"W	18.55'
L14	N00°34'57"W	420.40'
L15	N88°45'35"E	80.73'

SURFACE USE AREA "A" DESCRIPTION

COMMENCING AT THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 14 BEARS N89°35'22"E 2644.09', THENCE S64°40'24"E 1189.56' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N44°40'42"E 35.15'; THENCE N87°00'34"E 179.57'; THENCE S00°29'04"W 351.24'; THENCE N89°45'49"W 144.29'; THENCE S02°41'43"W 62.50'; THENCE S66°08'24"E 118.39'; THENCE S89°35'22"W 203.65'; THENCE N00°24'38"W 115.00'; THENCE N89°35'22"E 32.62'; THENCE N01°46'53"E 312.97' TO THE POINT OF BEGINNING. CONTAINS 1.946 ACRES MORE OR LESS.

SURFACE USE AREA "B" DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S66°03'17"W 1203.08' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°04'00"E 362.14'; THENCE S43°29'22"W 84.81'; THENCE N85°13'30"W 18.55'; THENCE N00°34'57"W 420.40'; THENCE N88°45'35"E 80.73' TO THE POINT OF BEGINNING. CONTAINS 0.723 ACRES MORE OR LESS.

POINT OF BEGINNING "A" BEARS S64°40'24"E
1189.56' FROM THE NORTHWEST CORNER OF
SECTION 14, T25S, R28E, N.M.P.M.

POINT OF BEGINNING "B" BEARS S66°03'17"W
1203.08' FROM THE NORTH 1/4 CORNER OF
SECTION 14, T25S, R28E, N.M.P.M.

SURFACE USE AREA "A" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	1.946

SURFACE USE AREA "B" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.723

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

CERTIFICATE

THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 1 of 2

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

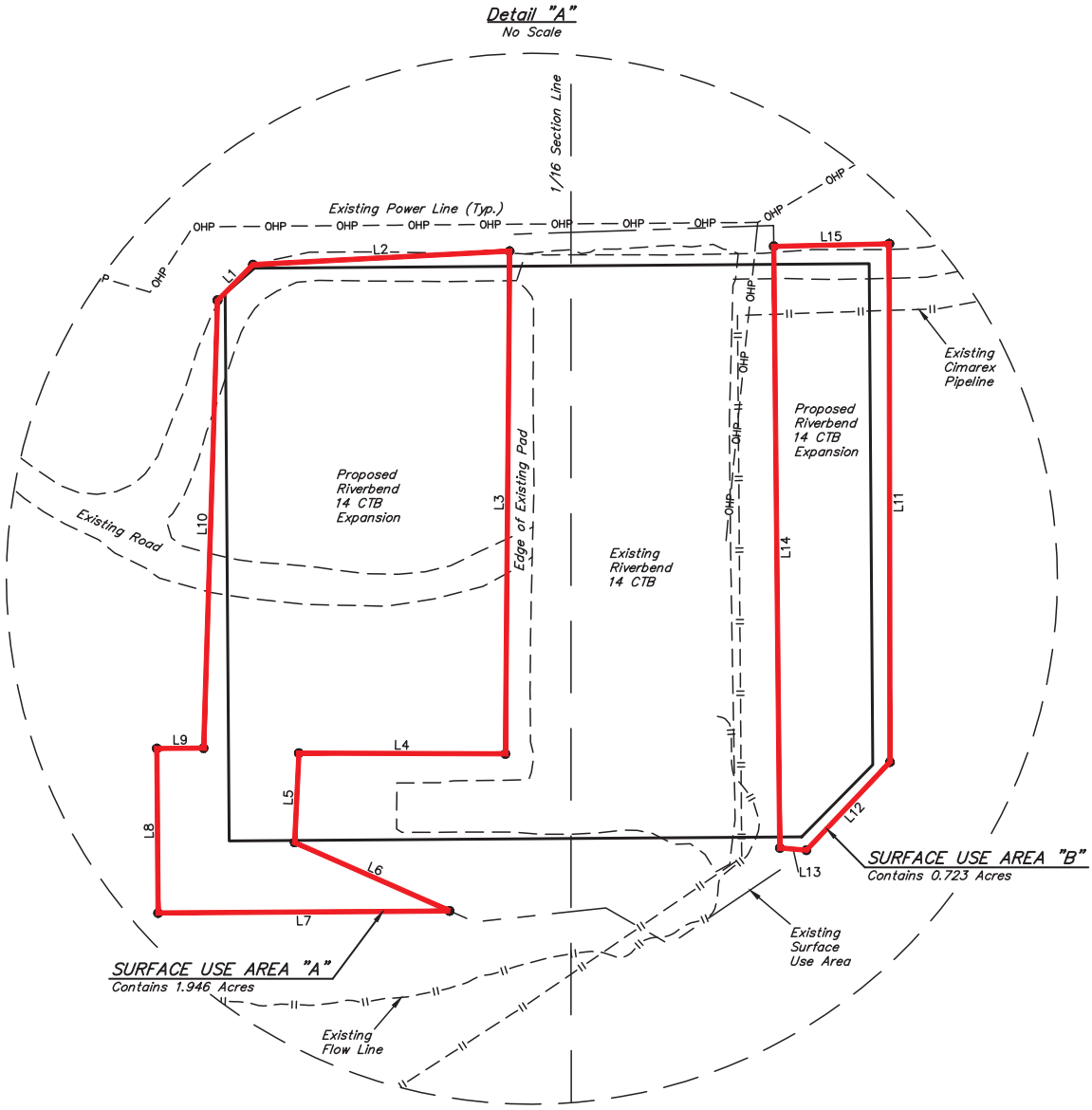
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A1		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CERTIFICATE

THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 2 of 2

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

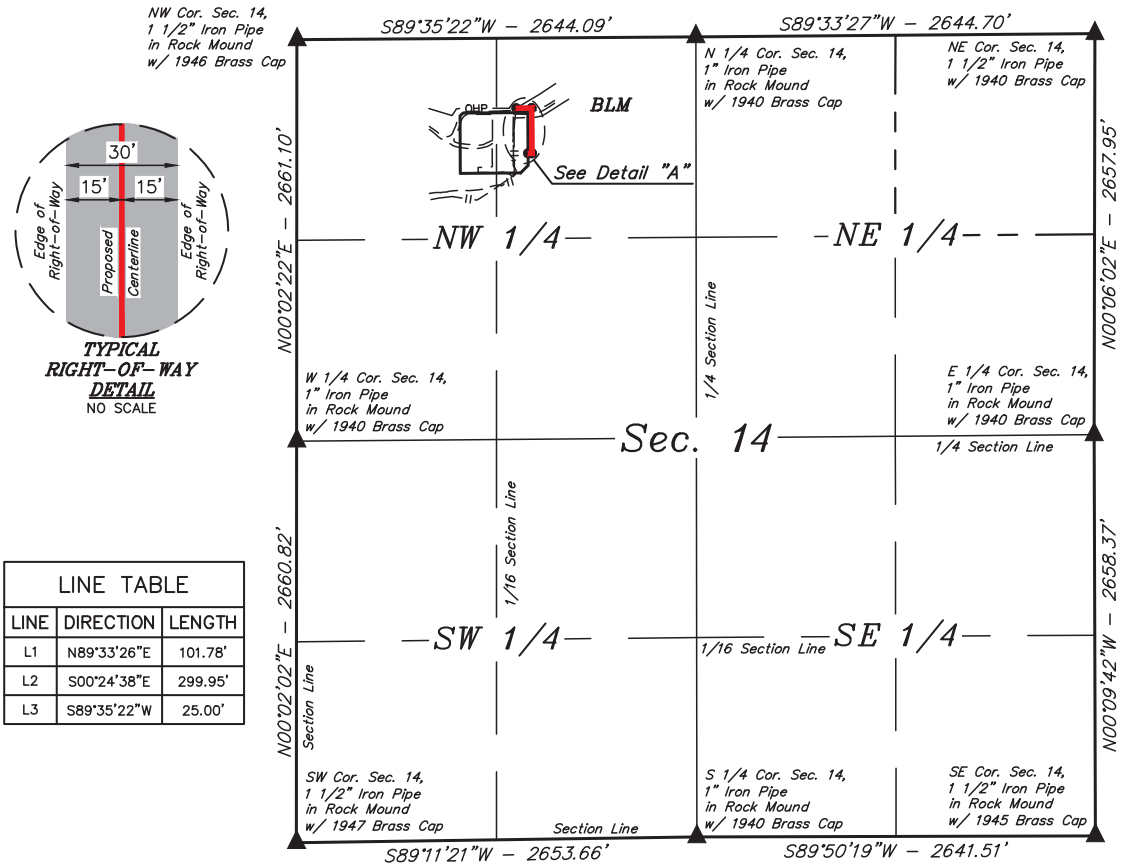
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CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



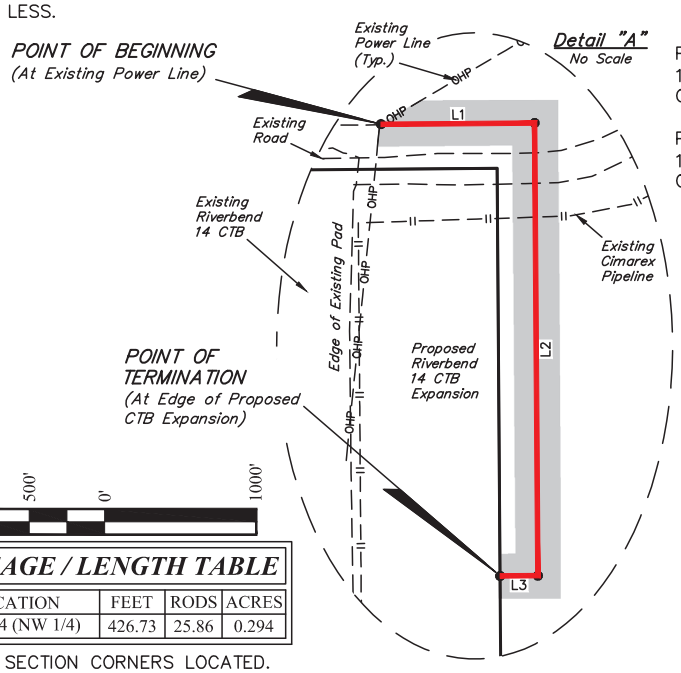
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°33'26"E	101.78'
L2	S00°24'38"E	299.95'
L3	S89°35'22"W	25.00'

POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 299.95'; THENCE S89°35'22"W 25.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.294 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S68°20'04"W 1281.05' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	426.73	25.86	0.294

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

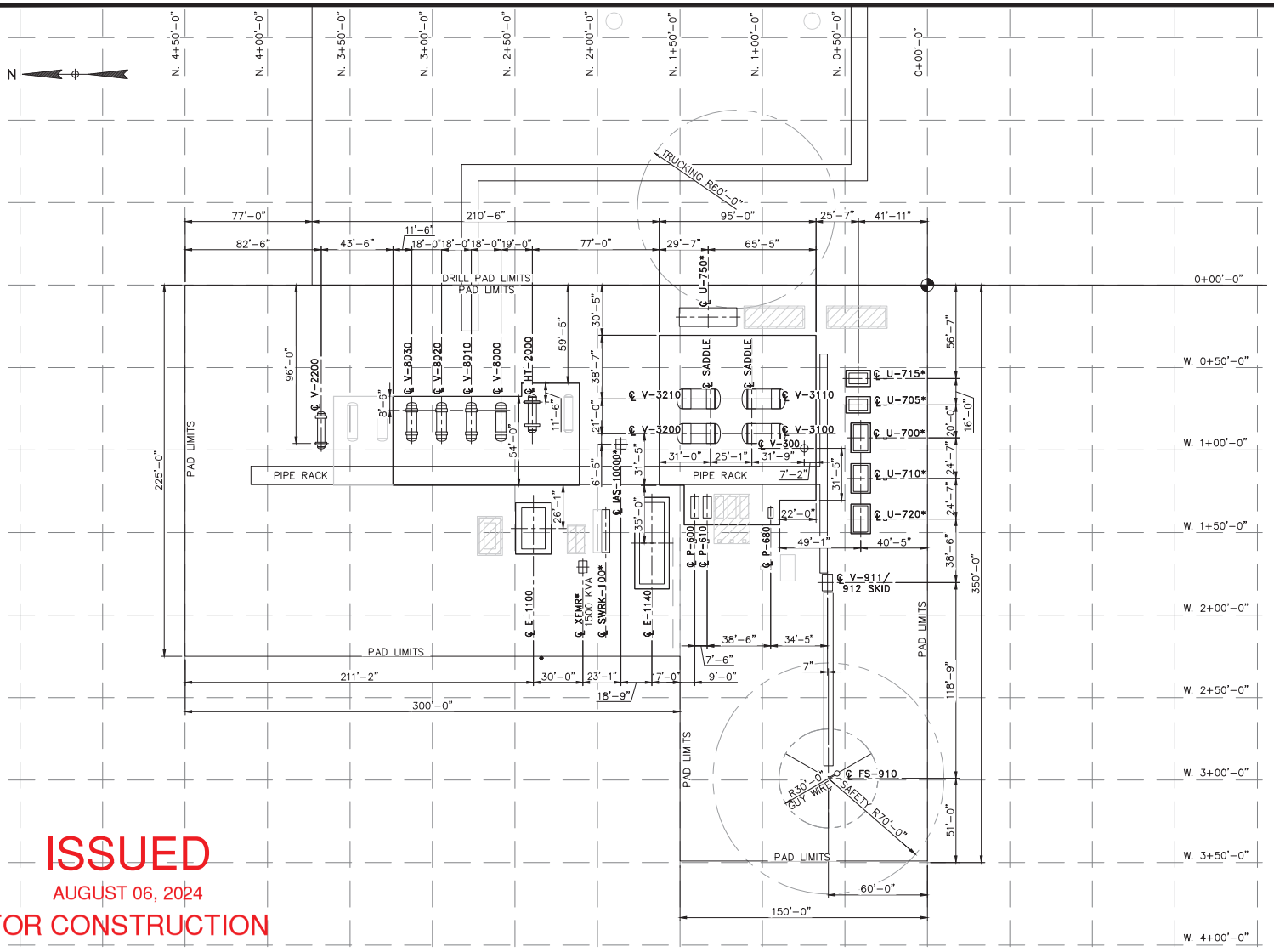
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		
POWER LINE R-O-W			EXHIBIT F

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

Released to Imaging: 12/5/2025 2:00:54 PM
Received by OCD: 11/21/2025 2:52:31 PM



EQUIPMENT		
TAG	DESCRIPTION	H
V-300	VAPOR RECOVERY TOWER 36" OD x 40' S/S	
P-600	SKIDDED TRANSFER PUMP	10
P-610	SKIDDED TRANSFER PUMP	10
P-680	PCP RECIRCULATION PUMP	5
U-700	FX12V125	12
U-705	G10	10
U-710	FX17V150	15
U-715	G10	10
U-720	FX17V150	15
U-750	PIPELINE W/ BOOSTER	21
FS-910	TRIPOD 3.0/1.5 MMSCFD DUAL FLARE STACK	20
V-911/912	FS-910 DUAL SCRUBBER SKID	30
E-1100	OIL COOLER H-13-24 HZ 16K	40
E-1140	H-10-2-28 WATER COOLER	40
HT-2000	HZ HEATER TREATER 60" OD x 20' S/S	
V-2200	2PH HZ LP GAS SCRUBBER 54" OD x 20' S/S	
V-3100	500 BBL OIL VESSEL 12' OD x 20' S/S	
V-3110	500 BBL OIL VESSEL 12' OD x 20' S/S	
V-3200	500 BBL WATER VESSEL 12' OD x 20' S/S	
V-3210	500 BBL WATER VESSEL 12' OD x 20' S/S	
V-8000	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8010	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8020	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8030	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
IAS-10000	AIR COMPRESSOR	(2) 7.5

LEGEND

FUTURE

ISSUED

AUGUST 06, 2024

FOR CONSTRUCTION

VESSEL	WELL NAME
V-8000	TRISTE DRAW 36-25 FED COM 401H
V-8010	TRISTE DRAW 36-25 FED COM 351H
V-8020	TRISTE DRAW 36-25 FED COM 402H
V-8030	TRISTE DRAW 36-25 FED COM 352H

NOTE:

LP B4P6; SWEET;

* FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION

REFERENCE DRAWINGS	
NO.	TITLE

REVISIONS					
NO.	DATE	DESCRIPTION	BY	CHK.	APP.
0	08/06/24	ISSUED FOR CONSTRUCTION	NR	JNM	

3S Engineering & Design
Midland, Texas 79705
Ph: 432-687-5611 Arlington, Texas 76011
Katy, Texas 77449
WWW.3SENGINEERINGDESIGN.COM
TBPE FIRM REG. #13809
NM FIRM REG. #4545320

NOTICE

THIS DRAWING HAS NOT BEEN PUBLISHED BUT RATHER HAS BEEN PREPARED BY 3S ENGINEERING & DESIGN, FOR USE BY THE CLIENT NAMED IN THE TITLE BLOCK SOLELY IN RESPECT OF THE CONSTRUCTION, OPERATION AND MAINTENANCE OF FACILITY NAMED IN THE TITLE BLOCK AND SHALL NOT BE USED FOR ANY OTHER PURPOSE, OR FURNISHED TO ANY OTHER PARTY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF 3S ENGINEERING & DESIGN.

ENGINEERING RECORD		
	BY	DATE
DRN:	NR	07/10/24
DES:	JAV	
CHK:		
APP:		
AFE No.		
FACILITY ENGR.	C. BOYLE	
PROJ. ENGR:	J. MEDINA	
SCALE:	NONE	

COTERRA

TRISTE DRAW 36-25 FED COM

GENERAL ARRANGEMENT PLOT PLAN

LEA COUNTY

PLOT SCALE NONE

DWG. NO. D-24550-20-100

REV.

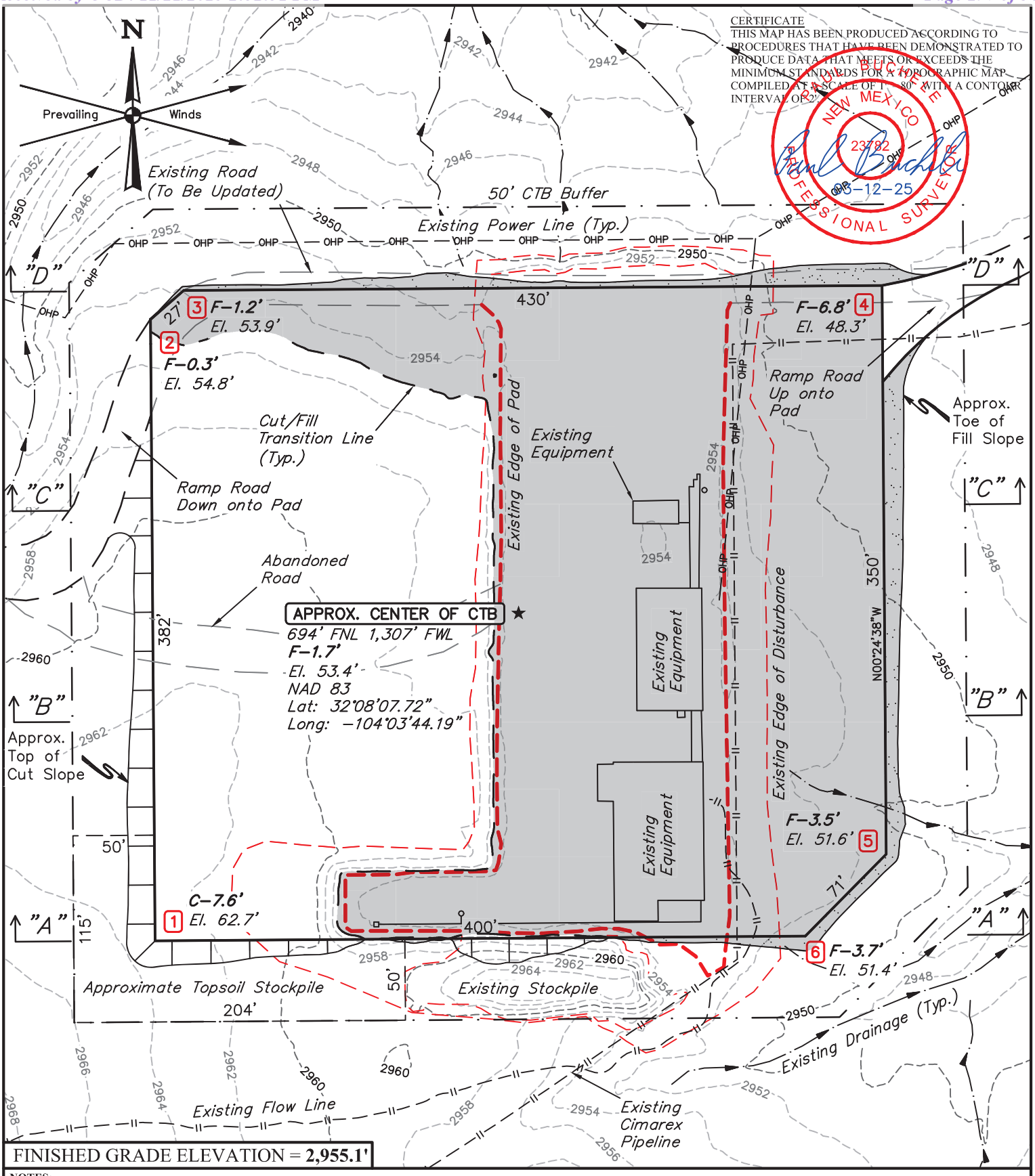
CAD NO.

Q:\01_Coterra\24550 - Triste Draw CTB\2. Eng., Design\2.3 Piping, Mech\2.3.2 Plot Plans\D-24550-20-100.dwg 20240805.101118

CIMAREX ENERGY CO.
RIVERBEND 14 CTB
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DATE:	DESCRIPTION:
3/19/2025	FINAL PLAT PACKAGE

UINTAH
ENGINEERING & LAND SURVEYING



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

FINISHED GRADE ELEVATION = **2,955.1'**

NOTES:

- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ. except where noted)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

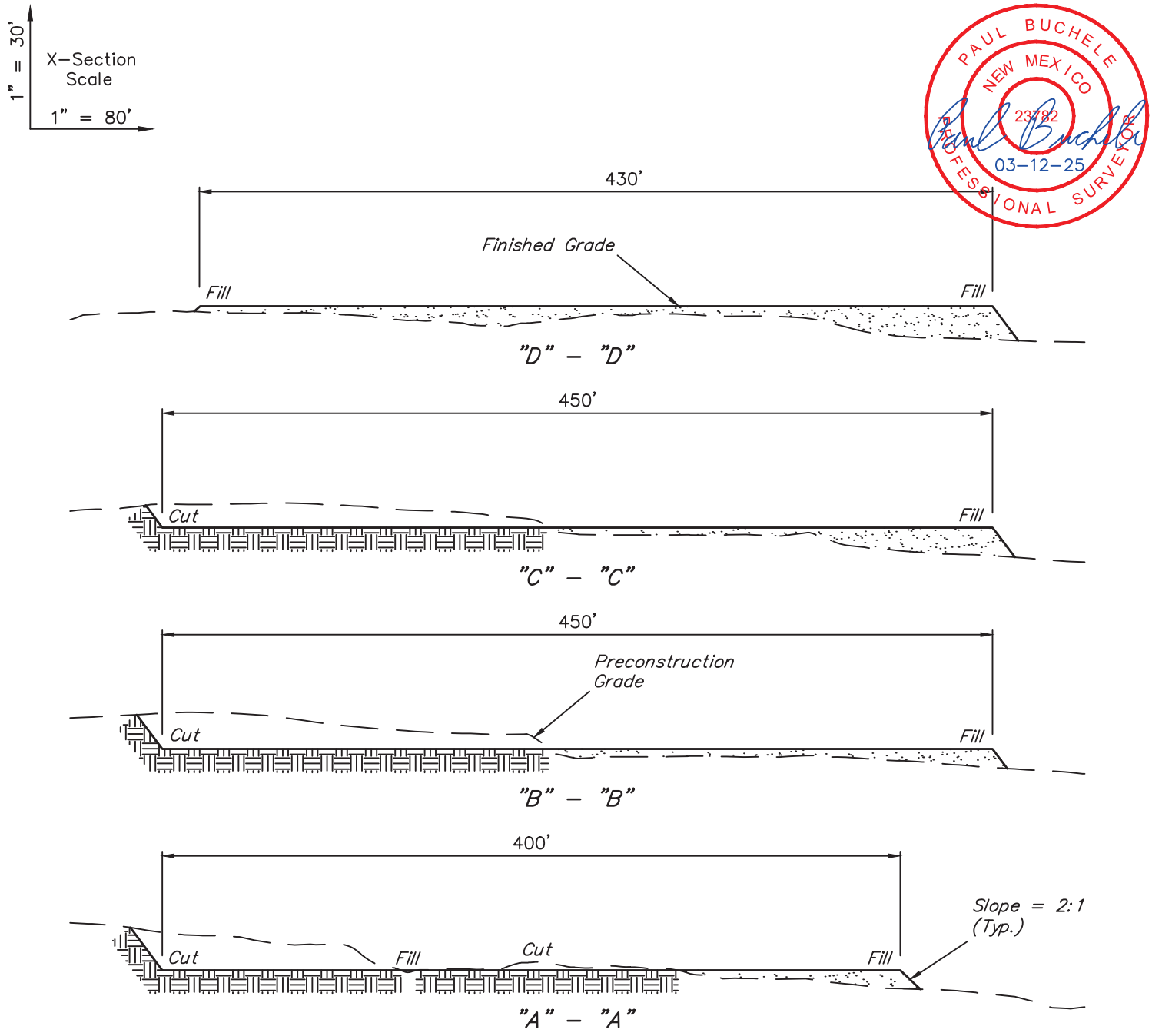
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
LOCATION LAYOUT			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	1,300 Cu. Yds.
REMAINING LOCATION	10,920 Cu. Yds.
TOTAL CUT	**12,220 Cu. Yds.**
FILL	**10,920 Cu. Yds.**
EXCESS MATERIAL	1,300 Cu. Yds.
TOPSOIL	1,300 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
EXISTING PAD DISTURBANCE	NA	±2.383
PROPOSED EXPANSION DISTURBANCE (NEW CONSTRUCTION ONLY)	NA	±2.669
30' WIDE POWER LINE R-O-W DISTURBANCE	±426.73'	±0.294
TOTAL SURFACE USE AREA		**±5.346**

NOTES:

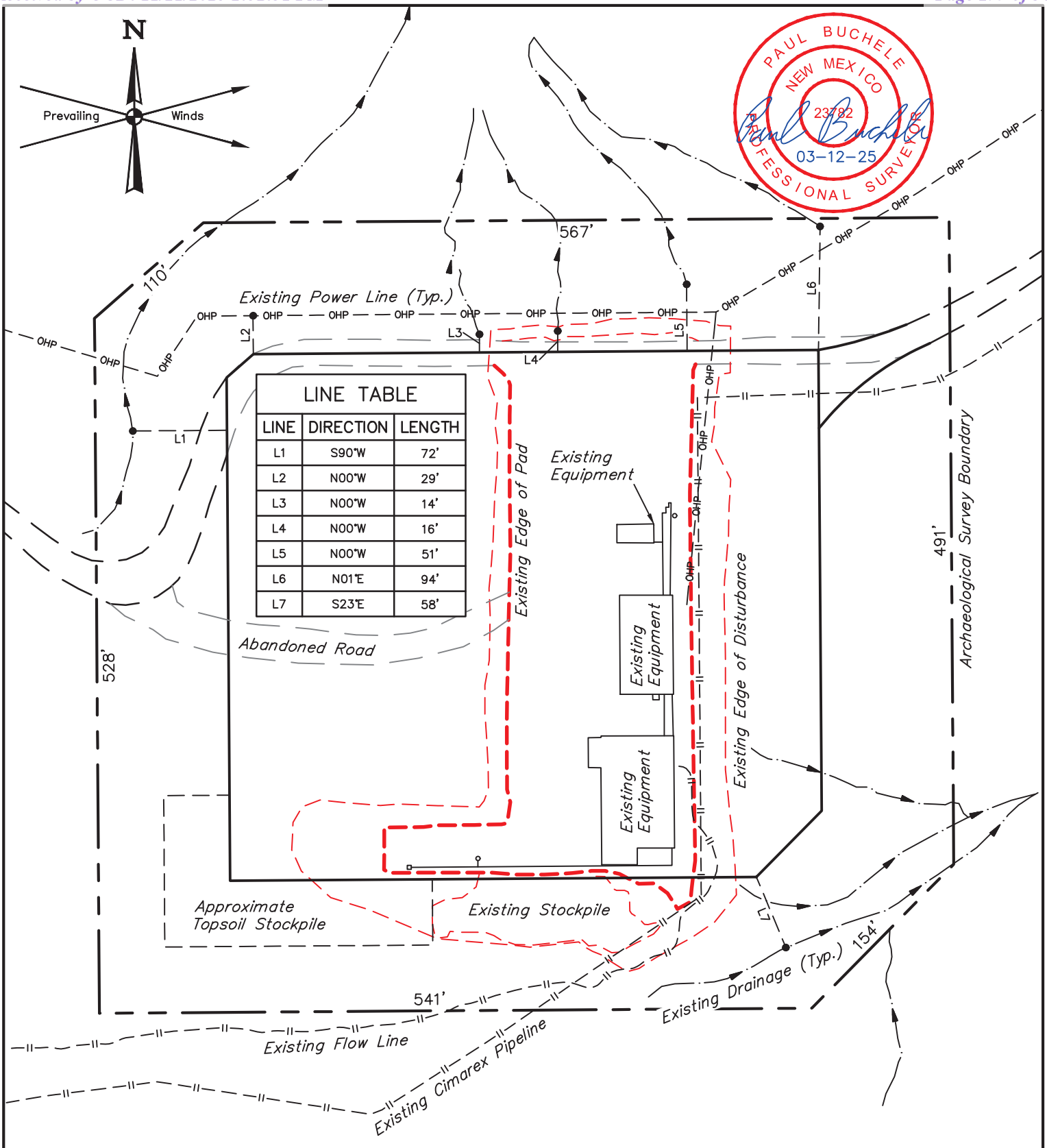
- Fill quantity includes 5% for compaction.

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	**SCALE**
DRAWN BY	N.R.	03-12-25	AS SHOWN
TYPICAL CROSS SECTIONS			**EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

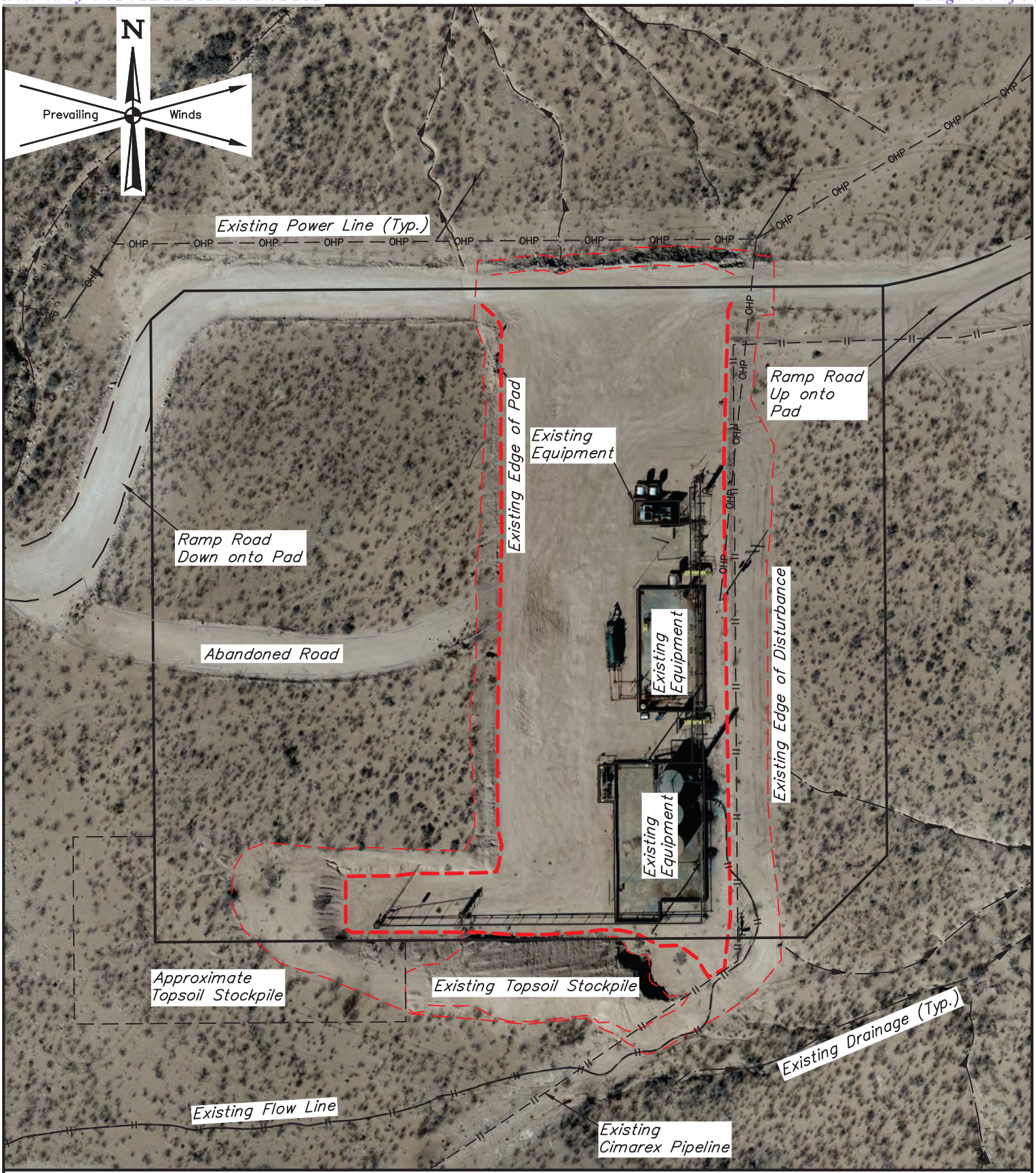
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
AERIAL SITE PLAN			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

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Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.0 MILE TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.0 MILES.

CIMAREX ENERGY CO.

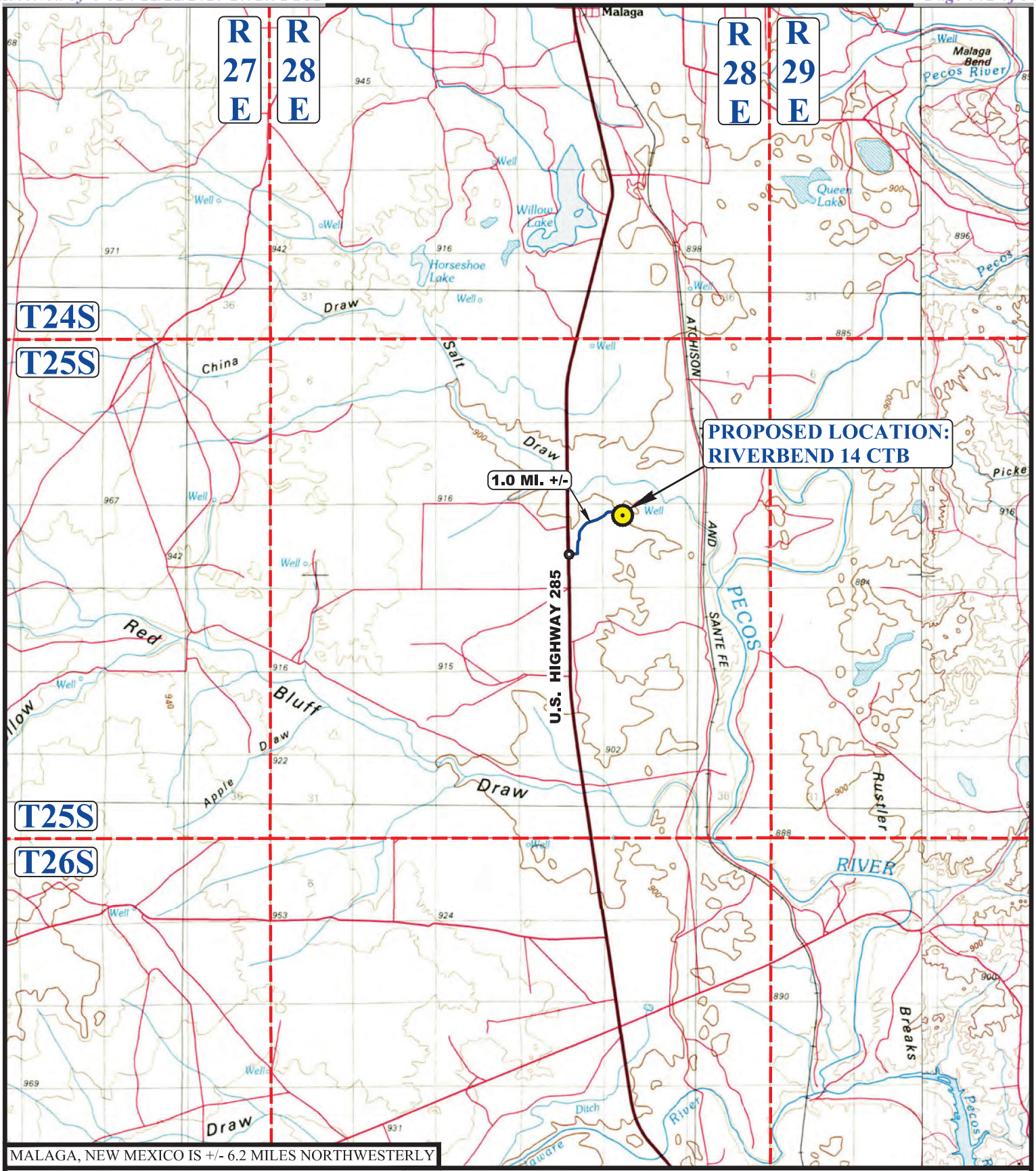
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
NW 1/4 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	

ROAD DESCRIPTION **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

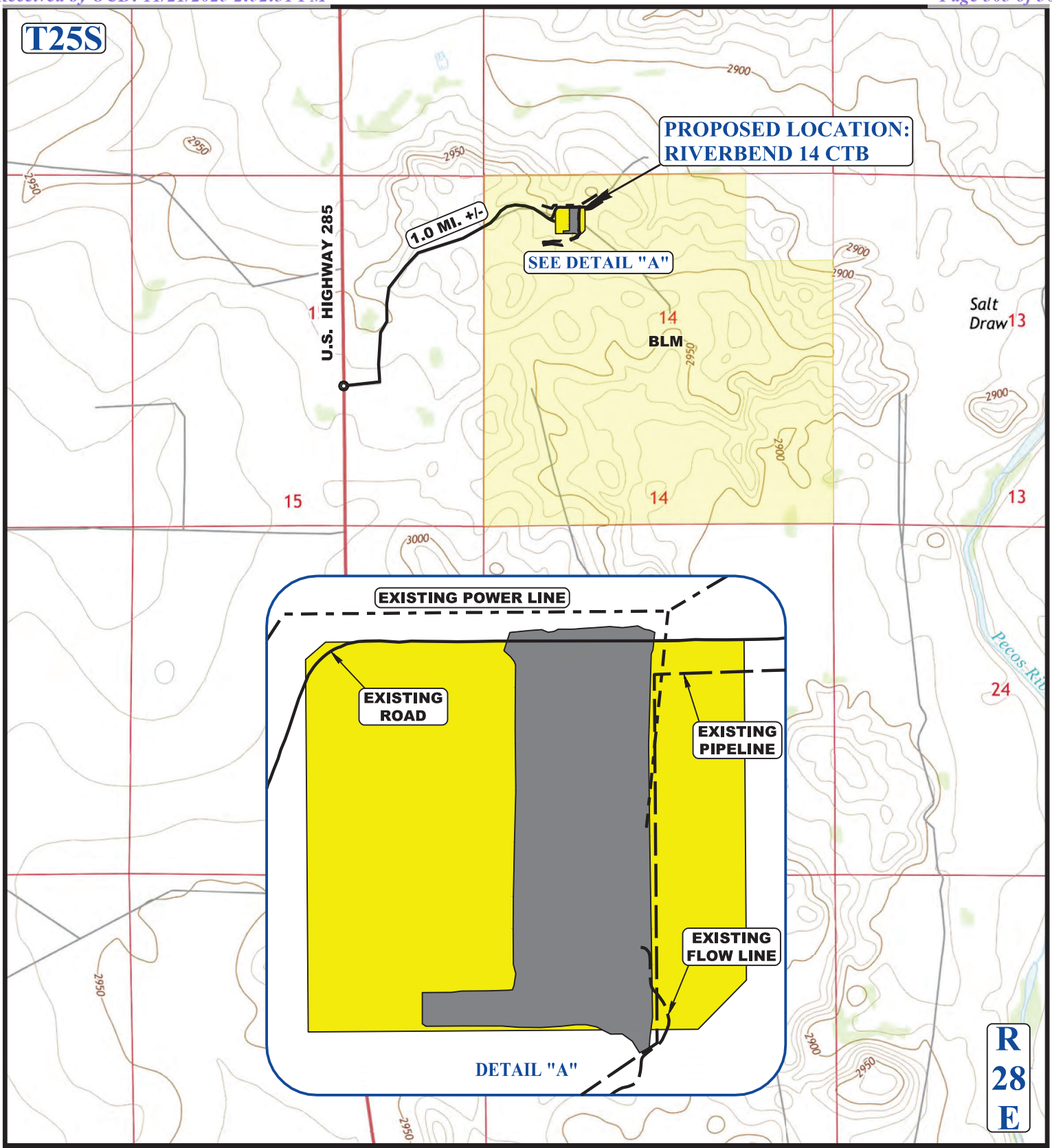
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE/FLOW LINE

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

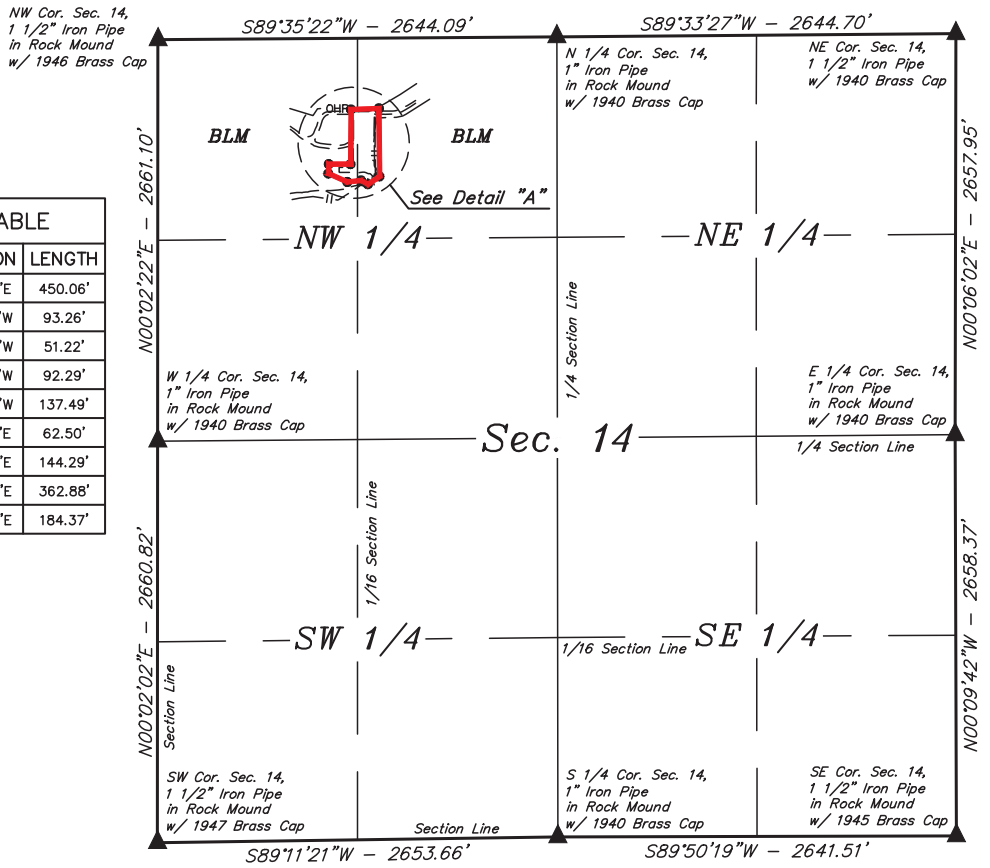
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CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 24,000

NEW ROAD MAP **EXHIBIT F**

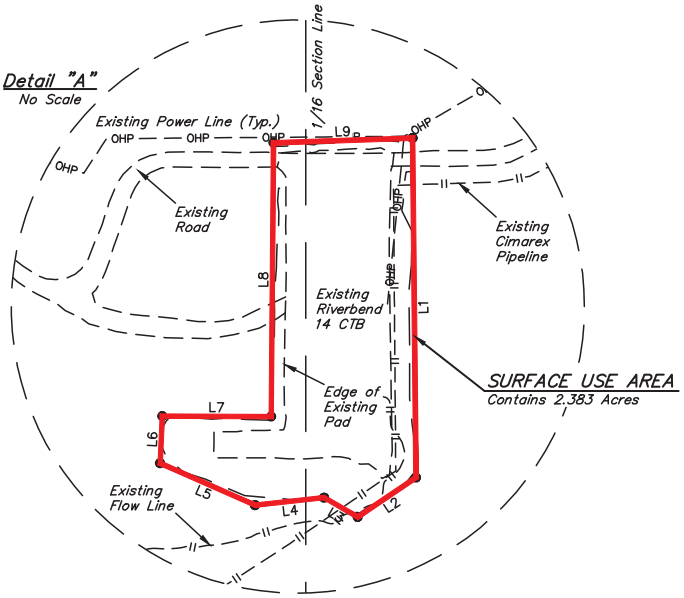


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS S68°03'17"W
1272.60' FROM THE NORTH 1/4 CORNER OF
SECTION 14, T25S, R28E, N.M.P.M.





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE [PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

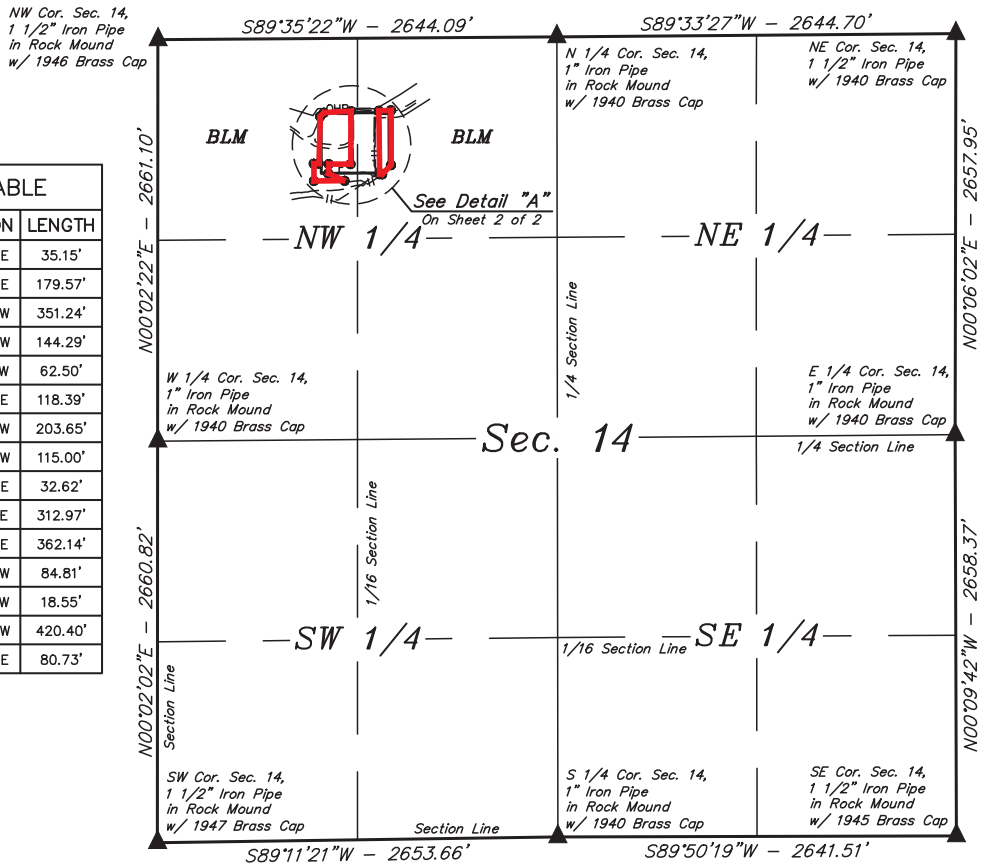
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

N

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		
EXISTING SURFACE USE AREA			EXHIBIT F



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N44°40'42"E	35.15'
L2	N87°00'34"E	179.57'
L3	S00°29'04"W	351.24'
L4	N89°45'49"W	144.29'
L5	S02°41'43"W	62.50'
L6	S66°08'24"E	118.39'
L7	S89°35'22"W	203.65'
L8	N00°24'38"W	115.00'
L9	N89°35'22"E	32.62'
L10	N01°46'53"E	312.97'
L11	S00°04'00"E	362.14'
L12	S43°29'22"W	84.81'
L13	N85°13'30"W	18.55'
L14	N00°34'57"W	420.40'
L15	N88°45'35"E	80.73'

SURFACE USE AREA "A" DESCRIPTION

COMMENCING AT THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 14 BEARS N89°35'22"E 2644.09', THENCE S64°40'24"E 1189.56' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N44°40'42"E 35.15'; THENCE N87°00'34"E 179.57'; THENCE S00°29'04"W 351.24'; THENCE N89°45'49"W 144.29'; THENCE S02°41'43"W 62.50'; THENCE S66°08'24"E 118.39'; THENCE S89°35'22"W 203.65'; THENCE N00°24'38"W 115.00'; THENCE N89°35'22"E 32.62'; THENCE N01°46'53"E 312.97' TO THE POINT OF BEGINNING. CONTAINS 1.946 ACRES MORE OR LESS.

SURFACE USE AREA "B" DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S66°03'17"W 1203.08' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°04'00"E 362.14'; THENCE S43°29'22"W 84.81'; THENCE N85°13'30"W 18.55'; THENCE N00°34'57"W 420.40'; THENCE N88°45'35"E 80.73' TO THE POINT OF BEGINNING. CONTAINS 0.723 ACRES MORE OR LESS.

POINT OF BEGINNING "A" BEARS S64°40'24"E 1189.56' FROM THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF BEGINNING "B" BEARS S66°03'17"W 1203.08' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

SURFACE USE AREA "A" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	1.946

SURFACE USE AREA "B" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.723

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

CERTIFICATE

THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 1 of 2

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

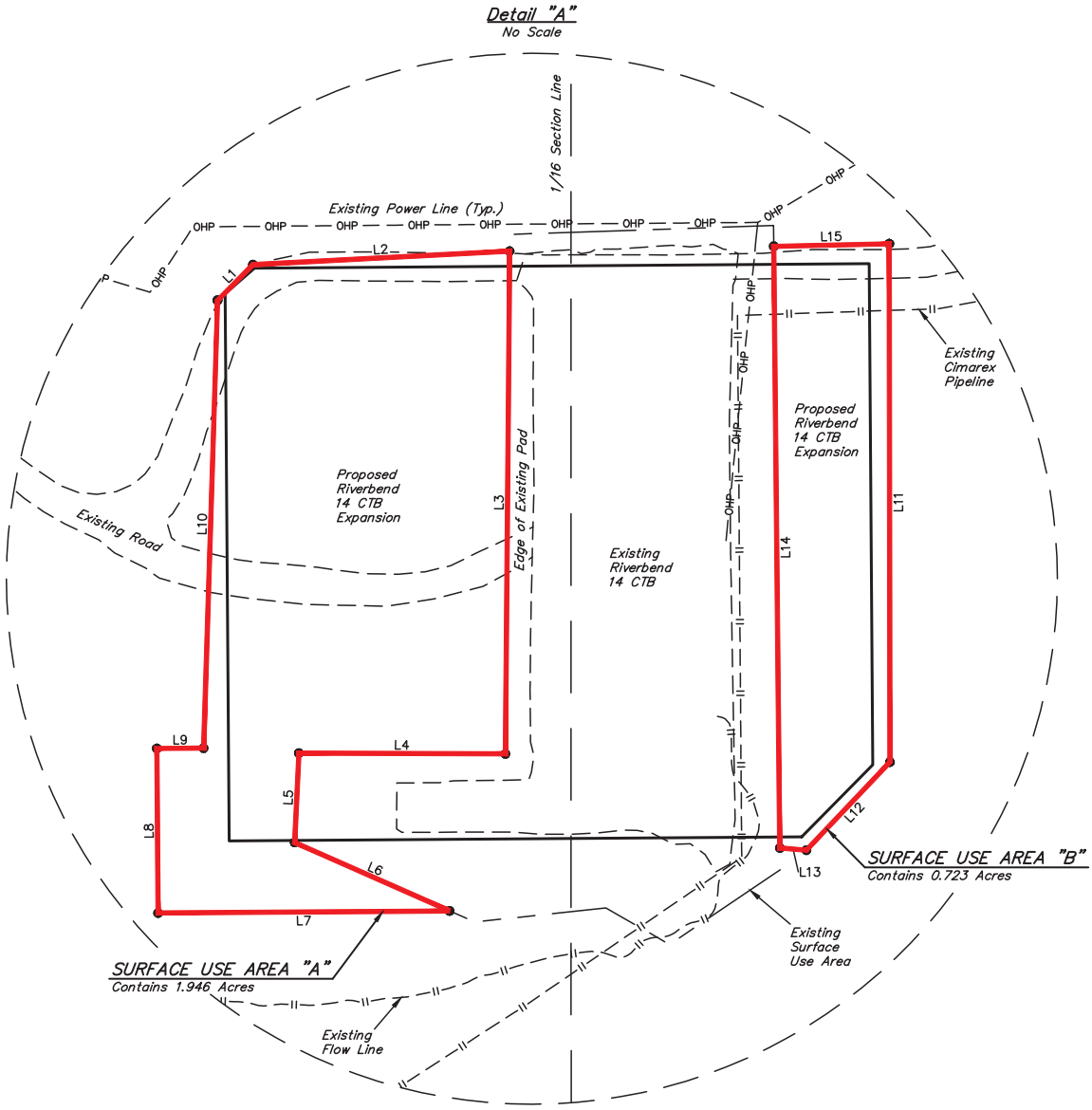
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A1		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CERTIFICATE

THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 2 of 2

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

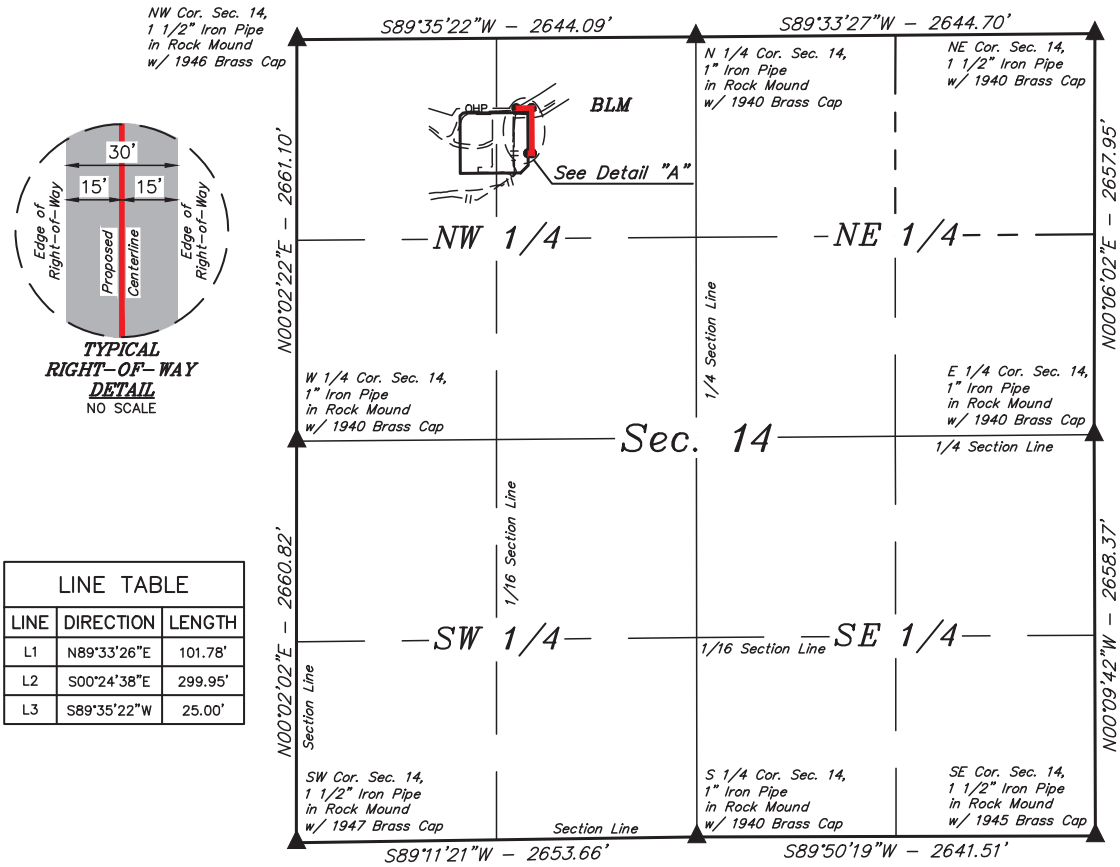
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CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		
EXPANSION SURFACE USE AREA			EXHIBIT F

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



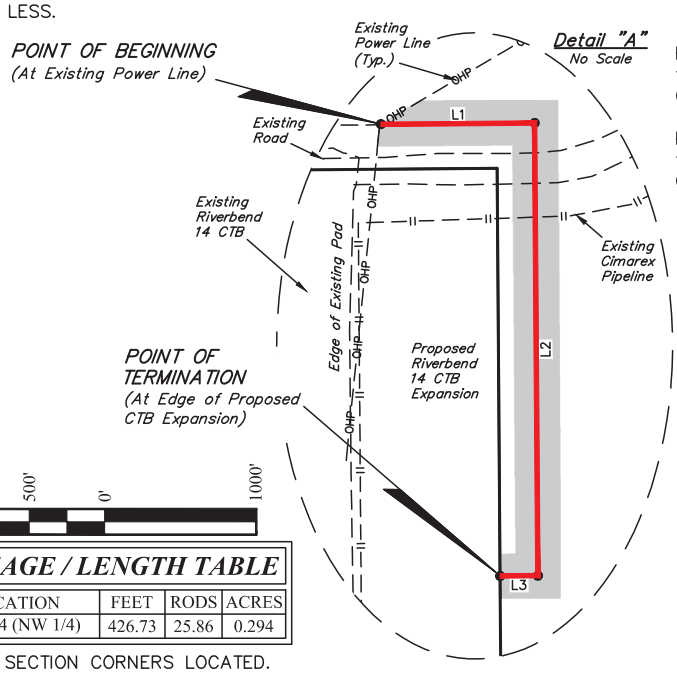
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°33'26"E	101.78'
L2	S00°24'38"E	299.95'
L3	S89°35'22"W	25.00'

POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 299.95'; THENCE S89°35'22"W 25.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.294 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S68°20'04"W 1281.05' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	426.73	25.86	0.294

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

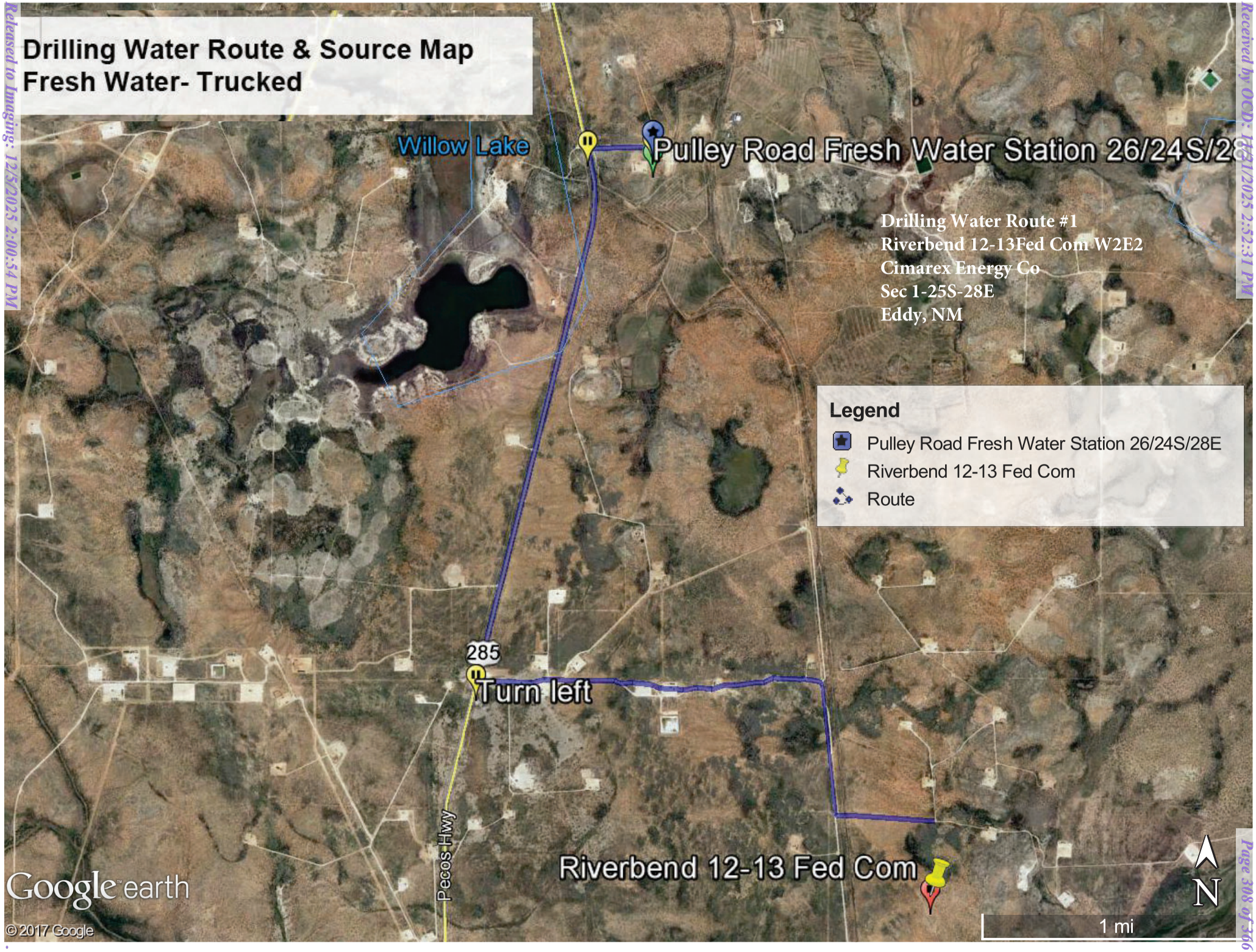
RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		
POWER LINE R-O-W			EXHIBIT F

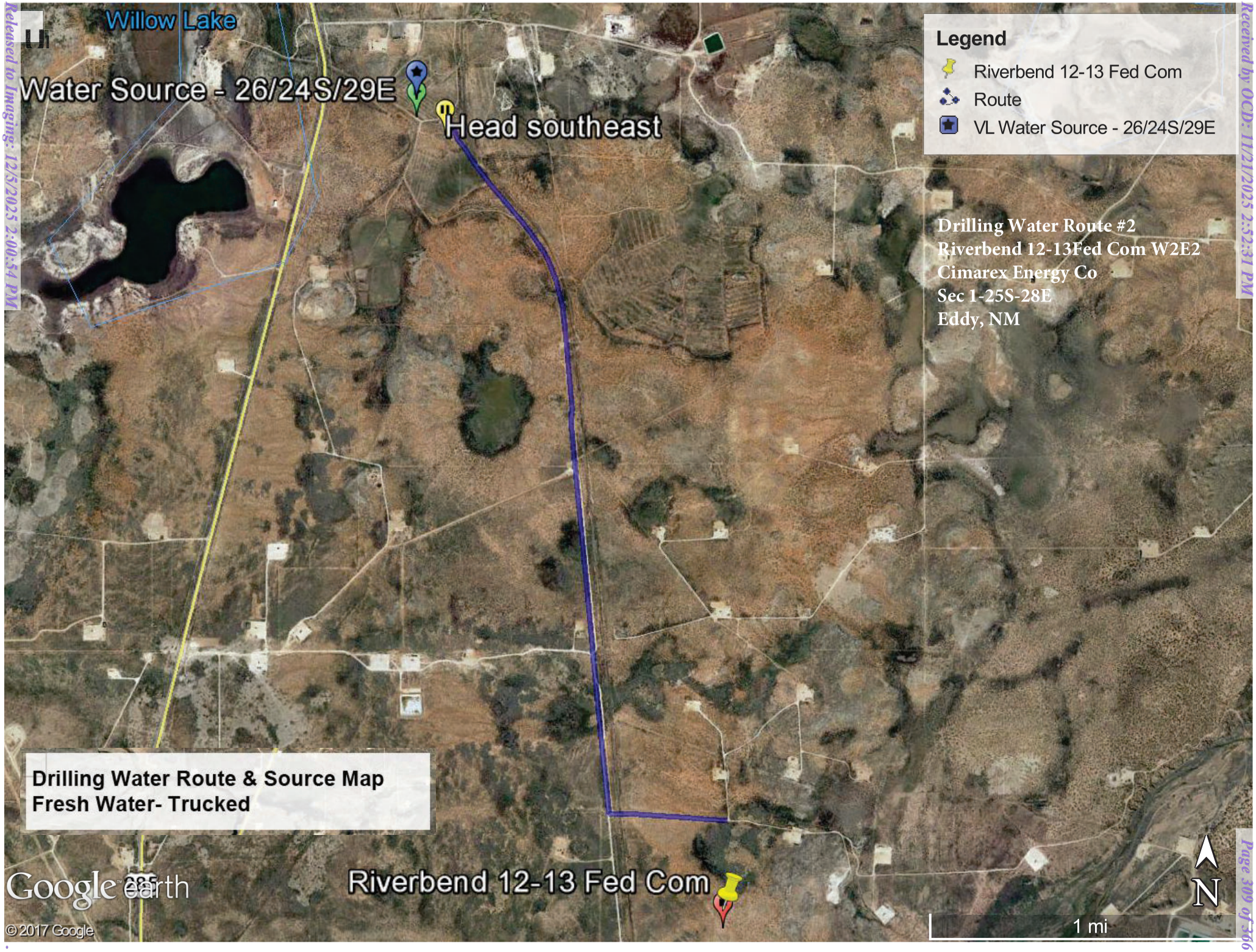
UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

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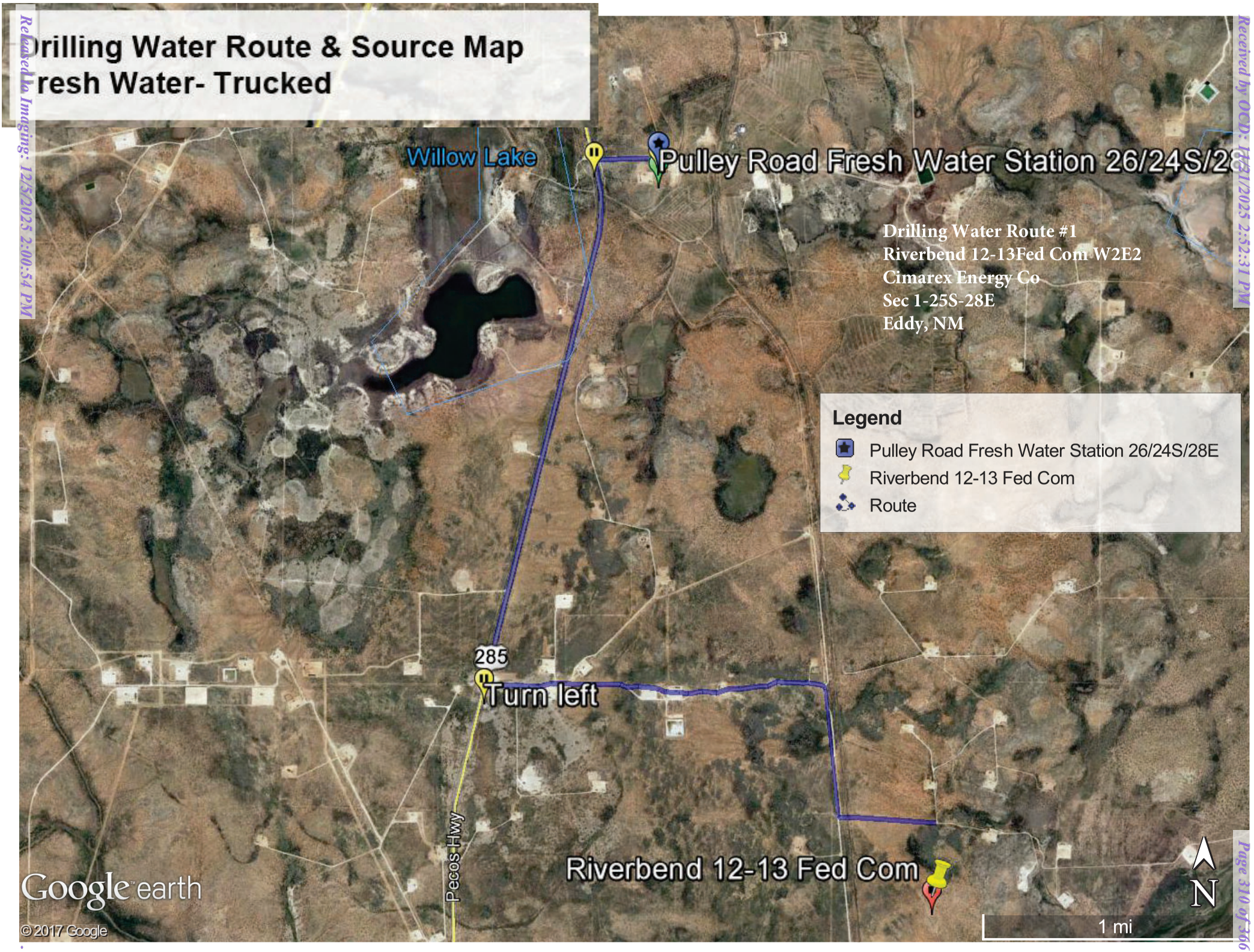


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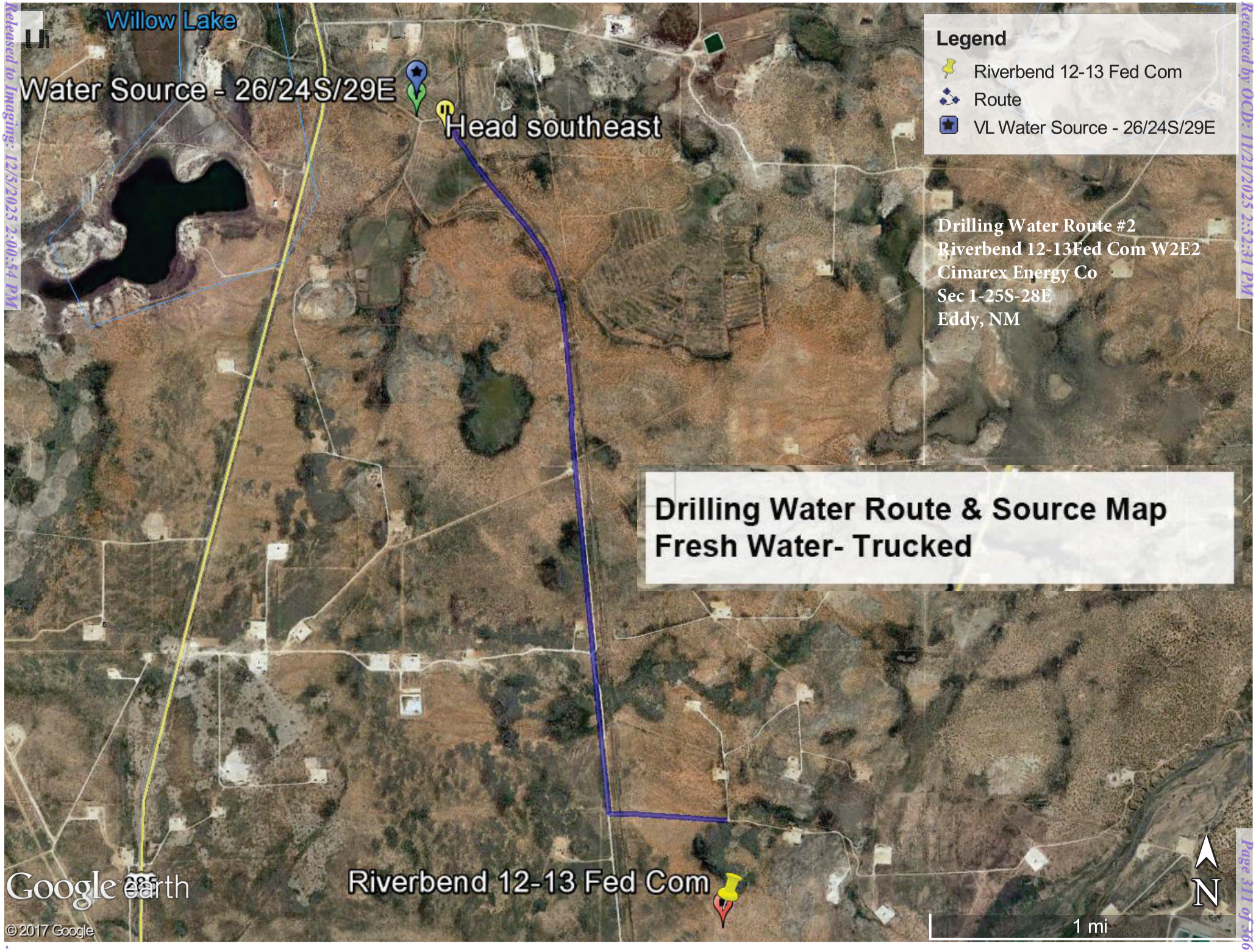
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Drilling Water Route & Source Map
Fresh Water- Trucked



Page 310 of 366

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RIVERBEND 14 FEDERAL COM 1H 264' FSL 1,880' FWL	RIVERBEND 14 FEDERAL COM 3H 264' FSL 1,860' FWL
RIVERBEND 14 FEDERAL COM 8H 264' FSL 1,840' FWL	RIVERBEND 14 FEDERAL COM 4H 264' FSL 1,800' FWL
RIVERBEND 14 FEDERAL COM 7H 264' FSL 1,820' FWL	

CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

"D" "C" "B" "A"

5 F-4.3' El. 33.9'

180'

120'

6 F-8.4' El. 29.8'

Alternate Egress

7 F-12.3' El. 25.9'

Approximate Topsoil Fill Area

80'

N00°24'38"W 110'

F-2.5' El. 35.7'

4H 7H 8H 3H 1H

F-3.7' El. 34.5'

260'

140'

20' 20' 20' 20'

4 F-0.1' El. 38.1'

Approx. Center of Pad (NAD 83)
Lat: 32°08'16.95"
Long: -104°03'38.71"

8 F-7.1' El. 31.1'

60'

69'

20' 20'

80'

4'

C-0.3' El. 38.5'

SHL SHL SHL

F-0.5' El. 37.7'

9 C-0.2' El. 38.4'

86'

81'

250'

36'

34'

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Satellite Pad

100'

Approx. Top of Cut Slope

3 C-5.7' El. 43.9'

230'

35'

35'

1

180'

10

Section Line

2 C-1.0' El. 39.2'

Section 11

Section 14

Existing Anchor

Existing Power Pole (Typ.)

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Power Line

Existing Edge of Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

FINISHED GRADE ELEVATION = 2,938'

NOTE: Earthwork Calculations Require a Fill @ some Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

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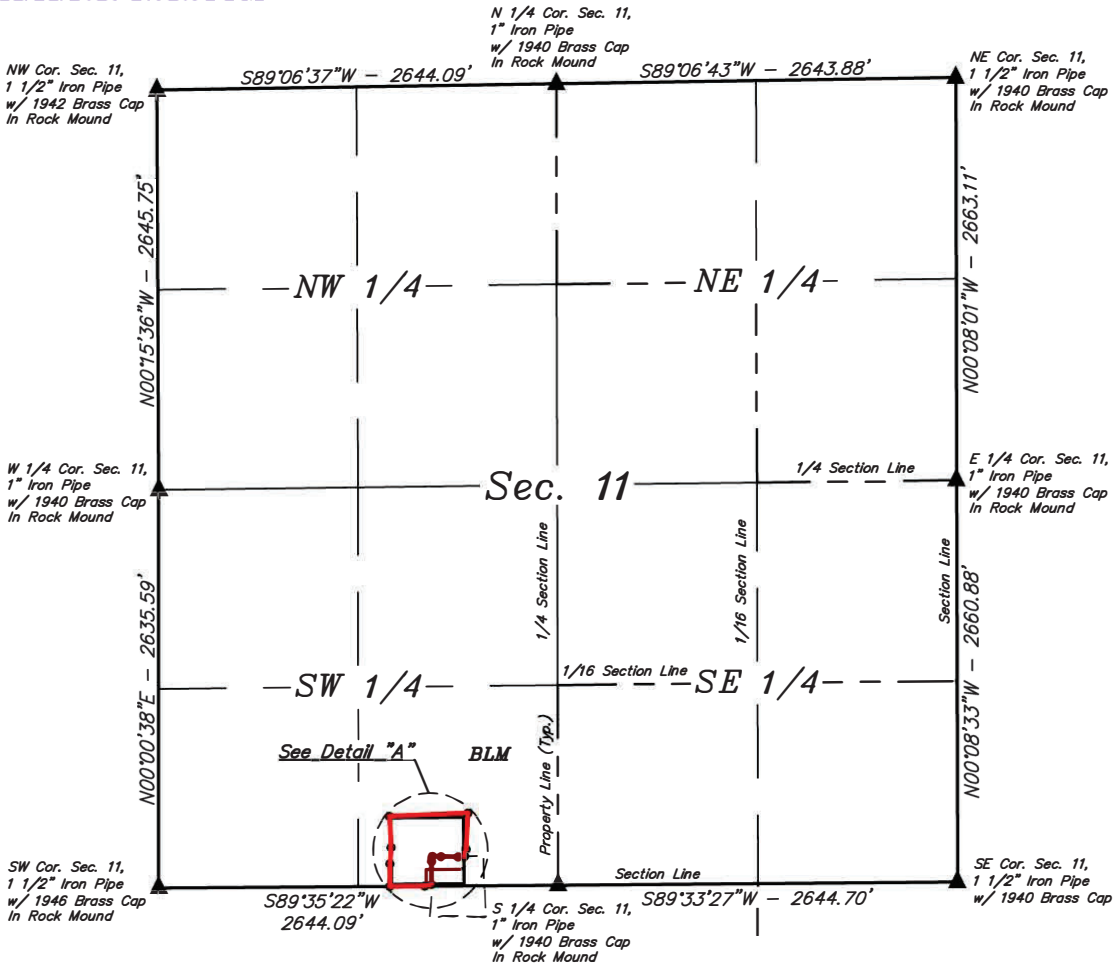
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'

LOCATION LAYOUT **EXHIBIT J**



SURFACE USE AREA DESCRIPTION

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE N72°52'30"W 647.00' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF BEGINNING; THENCE N89°43'03"W 42.85'; THENCE N89°02'25"W 113.95'; THENCE N87°46'39"W 57.29'; THENCE S37°37'35"W 4.82'; THENCE S03°23'16"W 31.44'; THENCE S00°16'13"W 153.80'; THENCE S74°38'09"W 45.97' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11; THENCE S89°35'22"W 231.61' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11; THENCE N00°18'48"E 148.92'; THENCE N04°09'04"E 108.59'; THENCE N02°58'38"W 206.43'; THENCE N87°38'09"E 518.82'; THENCE S02°48'26"W 240.26'; THENCE S11°05'22"W 47.19' TO THE POINT OF BEGINNING. CONTAINS 4.428 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS N72°52'30"W
647.00' FROM THE SOUTH 1/4 CORNER
OF SECTION 11, T25S, R28E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 11 (SW 1/4)	4.428

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

23782 — Paul Buchheit — 08-20-24 — PROFESSIONAL SURVEYOR

Sheet 1 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

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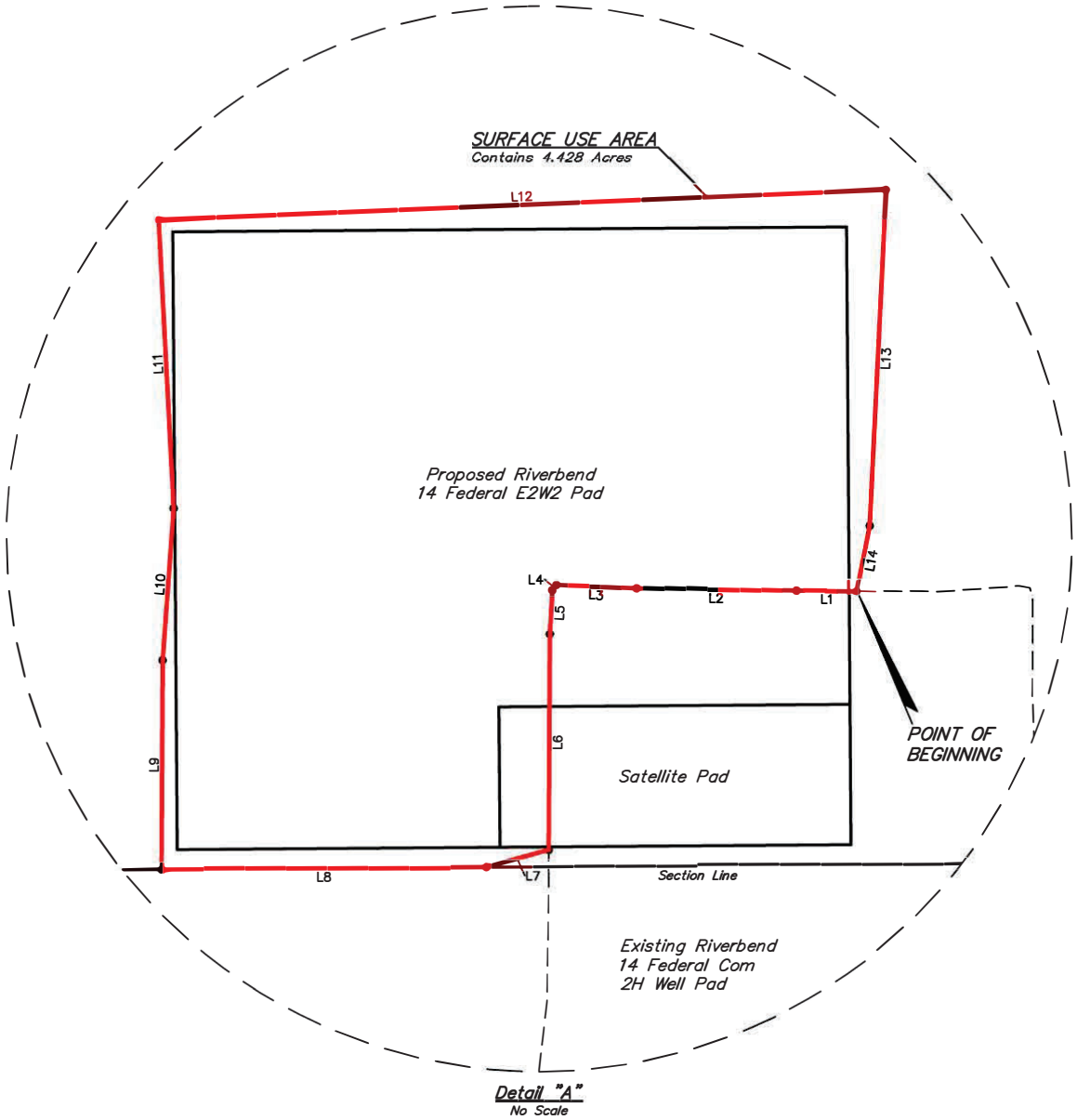
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CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-A1		

SURFACE USE AREA



Detail "A"
No Scale

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°43'03"W	42.85'
L2	N89°02'25"W	113.95'
L3	N87°46'39"W	57.29'
L4	S37°37'35"W	4.82'
L5	S03°23'16"W	31.44'
L6	S00°16'13"W	153.80'
L7	S74°38'09"W	45.97'
L8	S89°35'22"W	231.61'
L9	N00°18'48"E	148.92'
L10	N04°09'04"E	108.59'
L11	N02°58'38"W	206.43'
L12	N87°38'09"E	518.82'
L13	S02°48'26"W	240.26'
L14	S11°05'22"W	47.19'

CERTIFICATE
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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

Sheet 2 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

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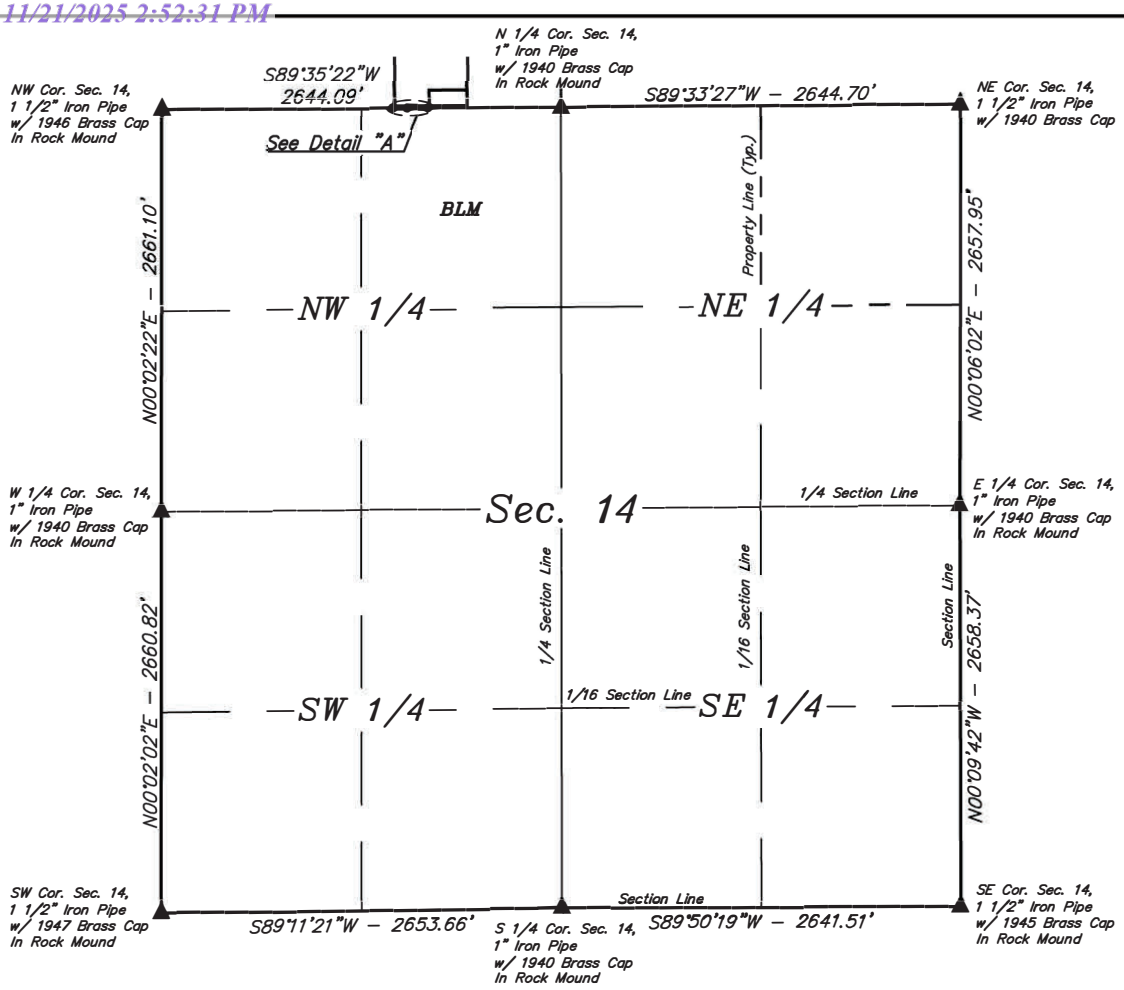
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-B1		

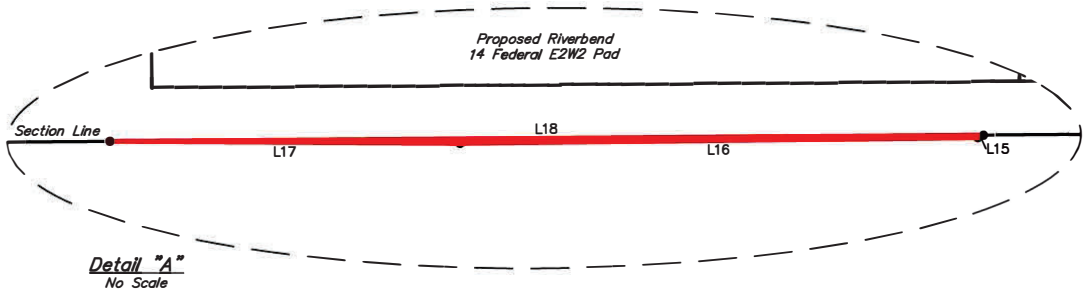
SURFACE USE AREA

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 882.23' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S66°42'17"W 1.80'; THENCE S89°22'43"W 137.12'; THENCE N89°40'05"W 92.84' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14; THENCE N89°35'22"E 231.61' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING. CONTAINS 0.004 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S89°35'22"W 882.23' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.004

▲ = SECTION CORNERS LOCATED.

LINE TABLE		
LINE	DIRECTION	LENGTH
L15	S66°42'17"W	1.80'
L16	S89°22'43"W	137.12'
L17	N89°40'05"W	92.84'
L18	N89°35'22"E	231.61'

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-B		

SURFACE USE AREA

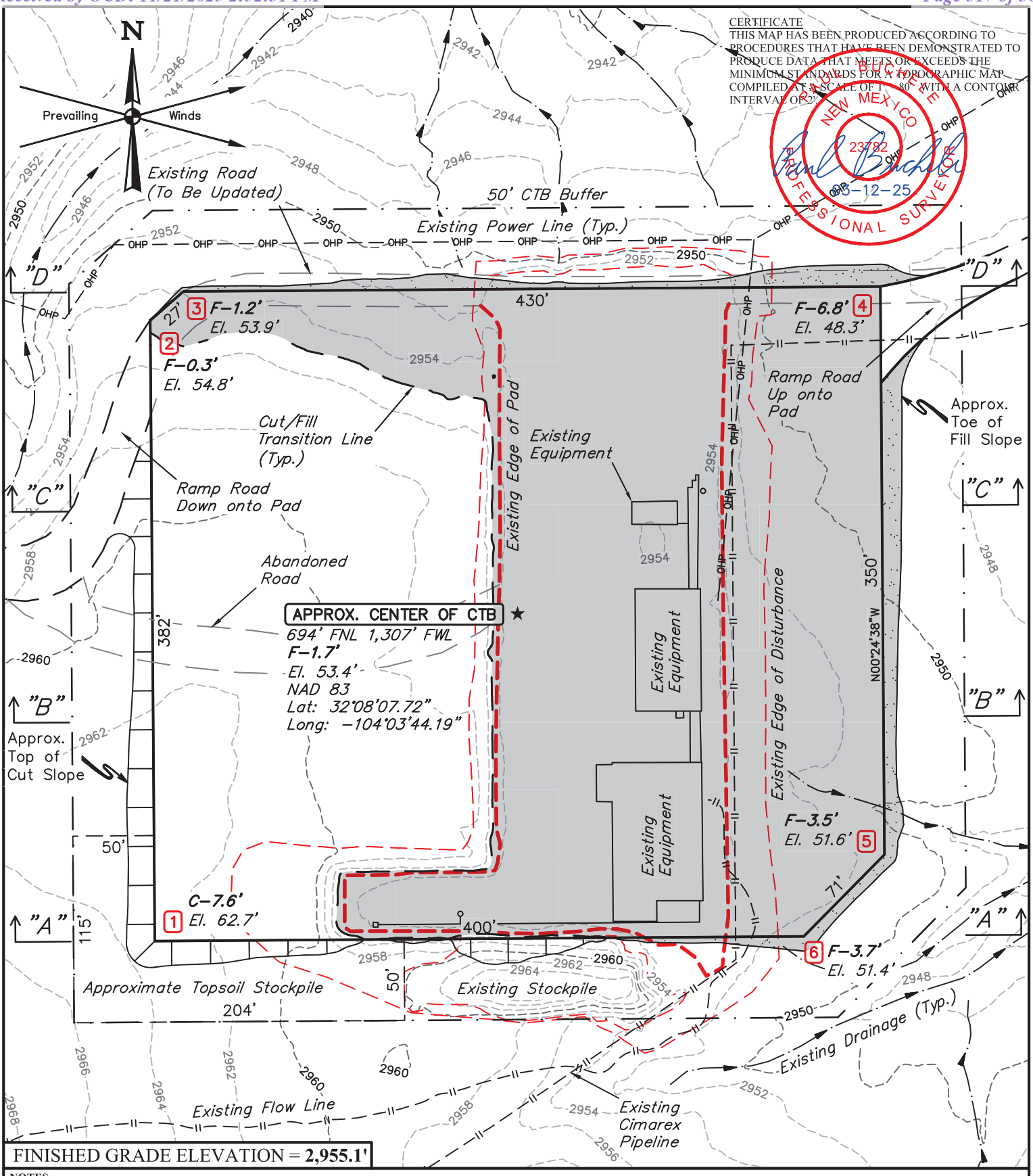
UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

CIMAREX ENERGY CO.
RIVERBEND 14 CTB
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DATE:	DESCRIPTION:
3/19/2025	FINAL PLAT PACKAGE

UINTAH
ENGINEERING & LAND SURVEYING



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BUCKNER NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

FINISHED GRADE ELEVATION = **2,955.1'**

NOTES:

- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ. except where noted)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

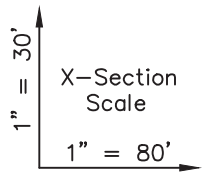
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

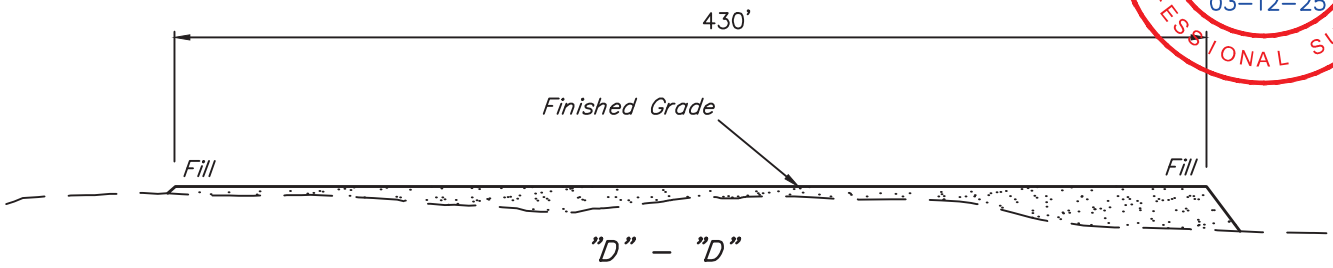
SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
LOCATION LAYOUT			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

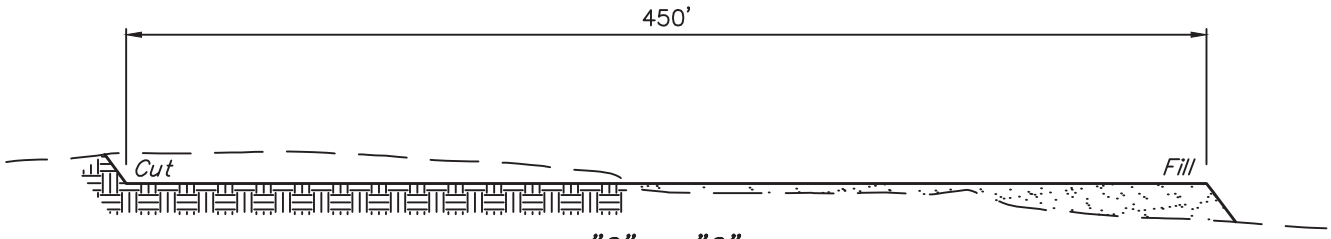
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



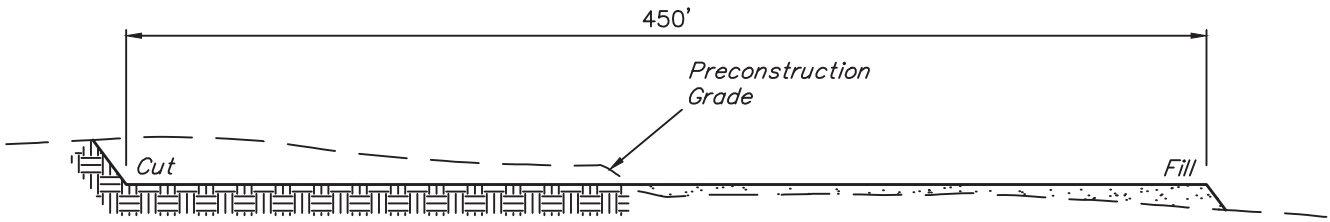




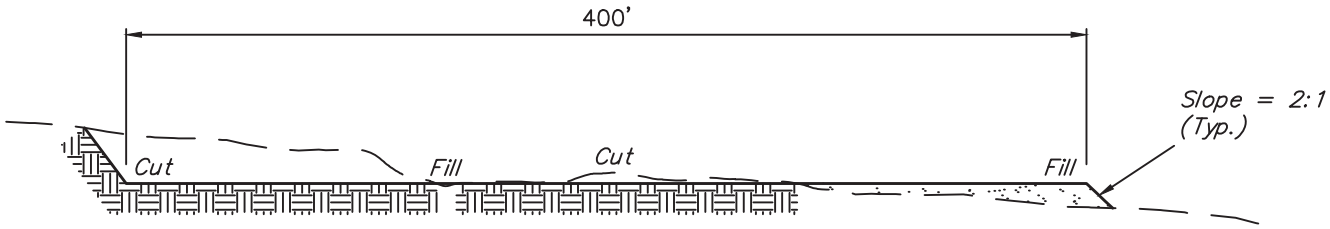
"D" – "D"



"C" – "C"



"B" – "B"



"A" – "A"

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	1,300 Cu. Yds.
REMAINING LOCATION	10,920 Cu. Yds.
TOTAL CUT	**12,220 Cu. Yds.**
FILL	**10,920 Cu. Yds.**
EXCESS MATERIAL	1,300 Cu. Yds.
TOPSOIL	1,300 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
EXISTING PAD DISTURBANCE	NA	±2.383
PROPOSED EXPANSION DISTURBANCE (NEW CONSTRUCTION ONLY)	NA	±2.669
30' WIDE POWER LINE R-O-W DISTURBANCE	±426.73'	±0.294
TOTAL SURFACE USE AREA		**±5.346**

NOTES:

- Fill quantity includes 5% for compaction.

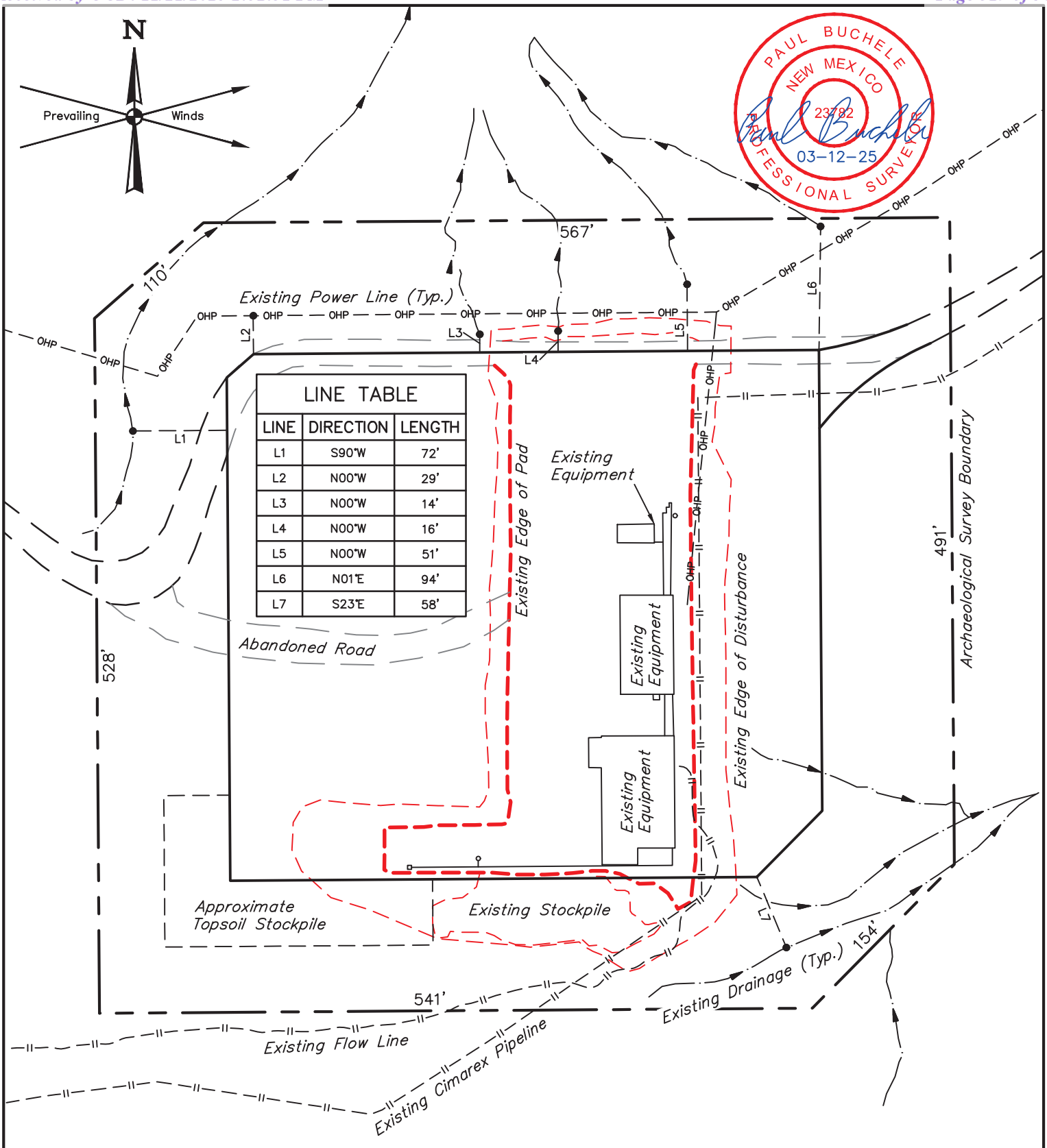
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	**SCALE**
DRAWN BY	N.R.	03-12-25	AS SHOWN
TYPICAL CROSS SECTIONS			**EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

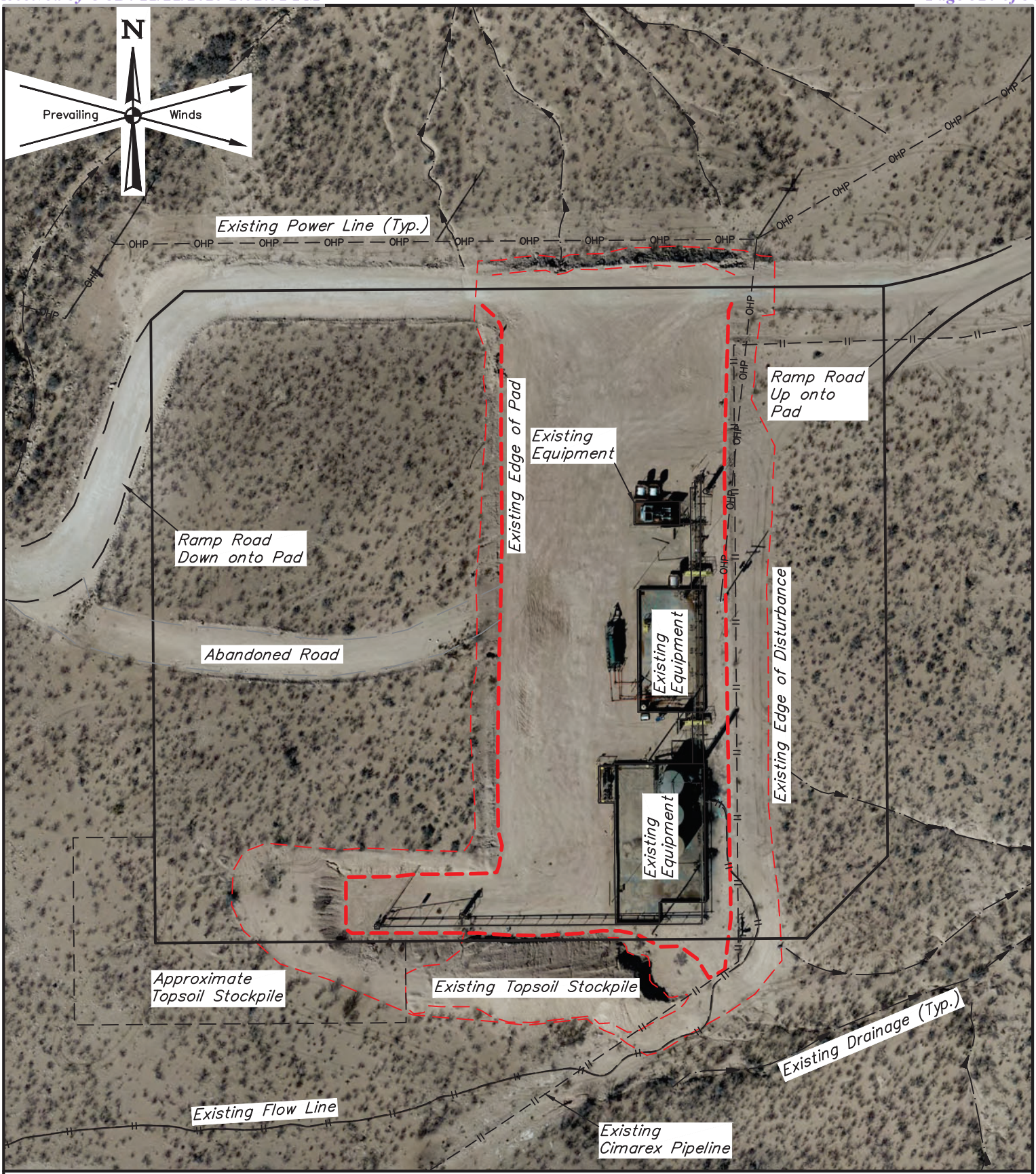
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

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- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
AERIAL SITE PLAN			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.0 MILE TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.0 MILES.

CIMAREX ENERGY CO.

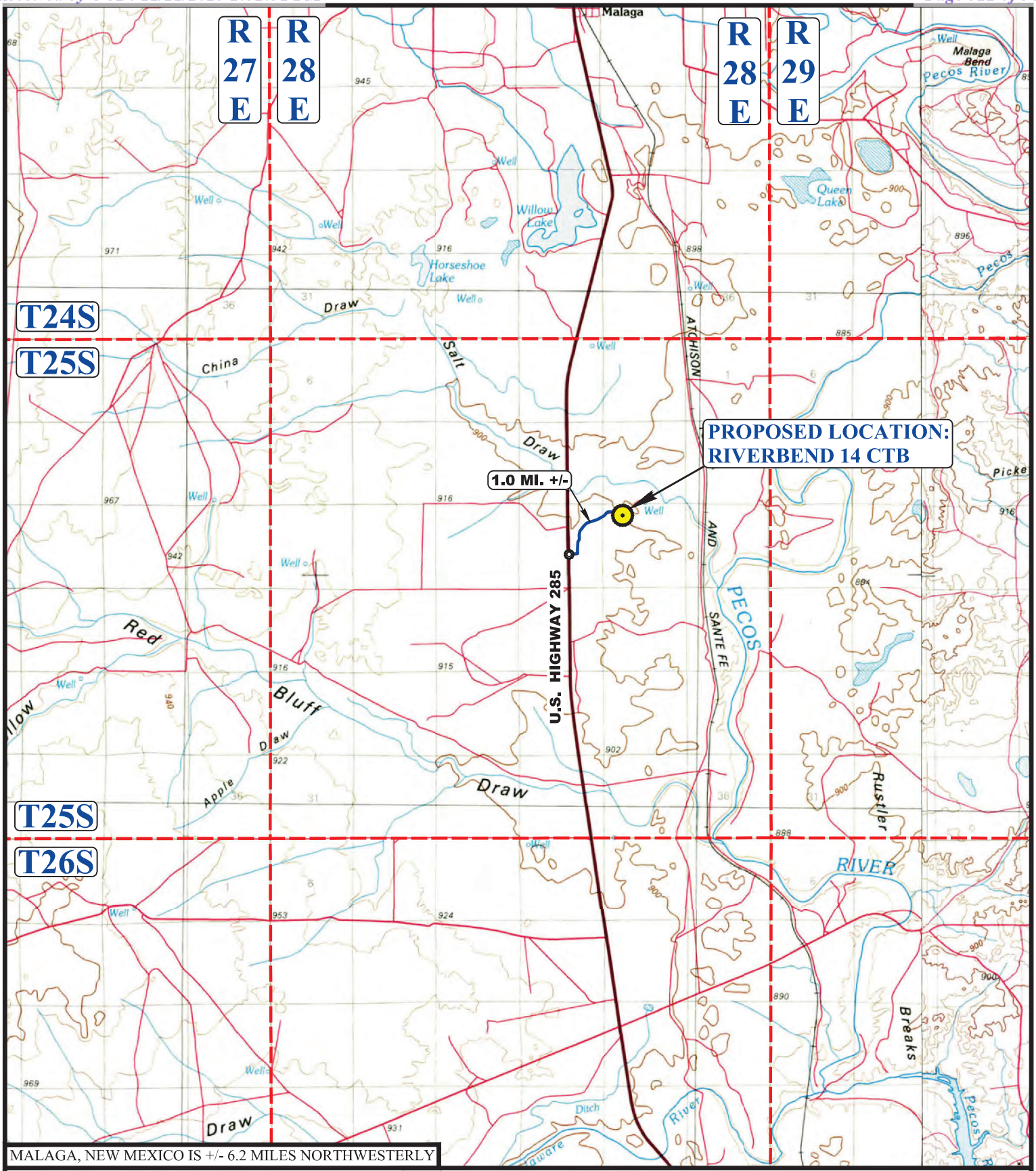
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
NW 1/4 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	

ROAD DESCRIPTION **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

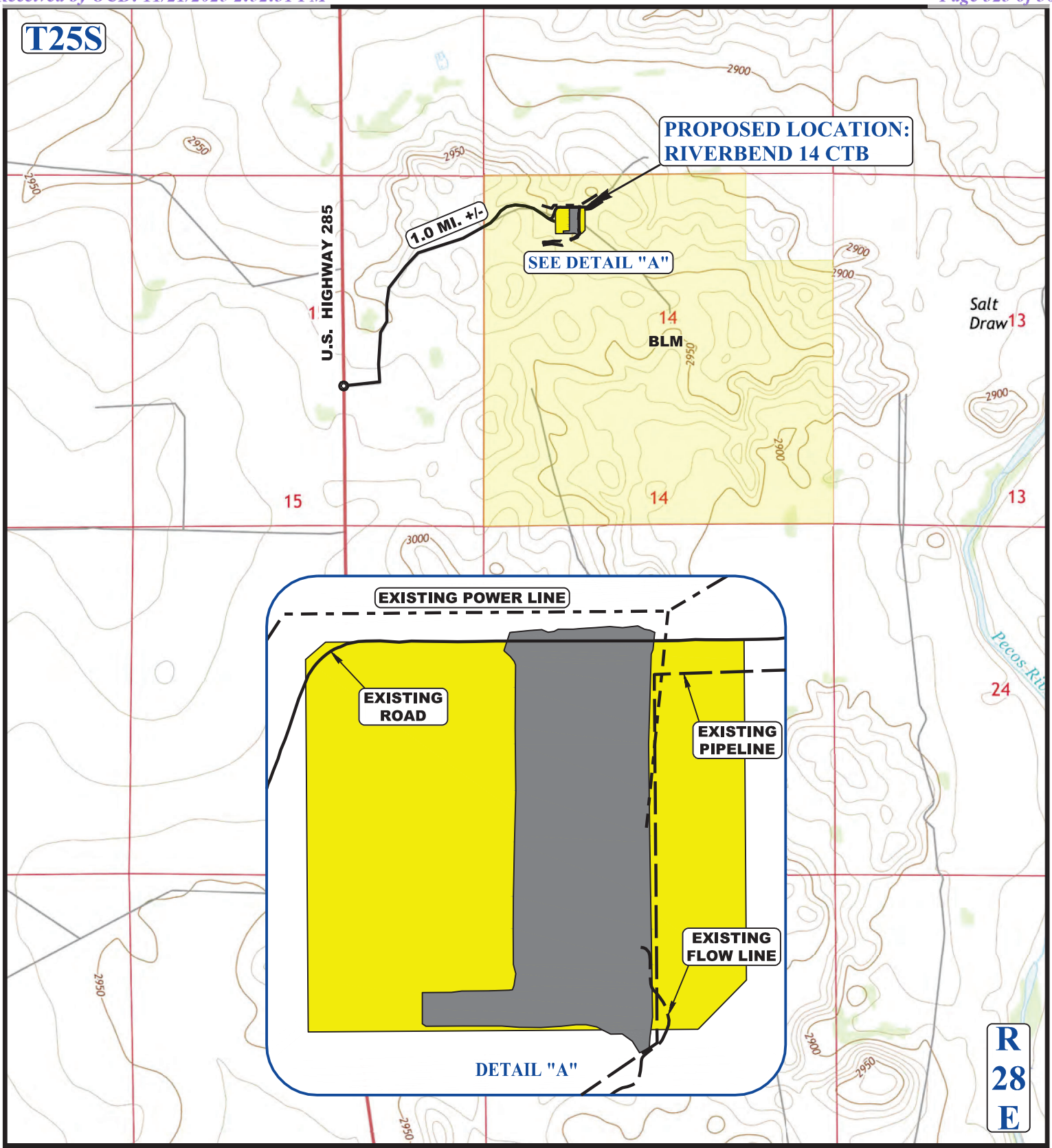
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE/FLOW LINE

N

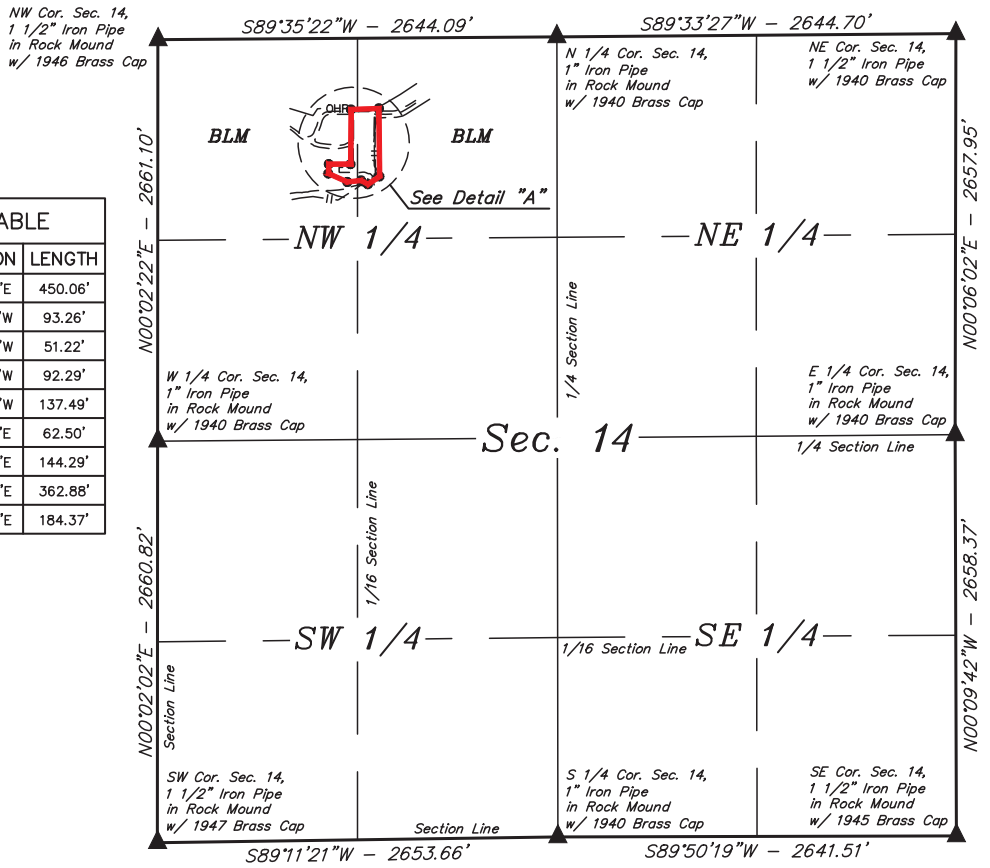
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 24,000

NEW ROAD MAP **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

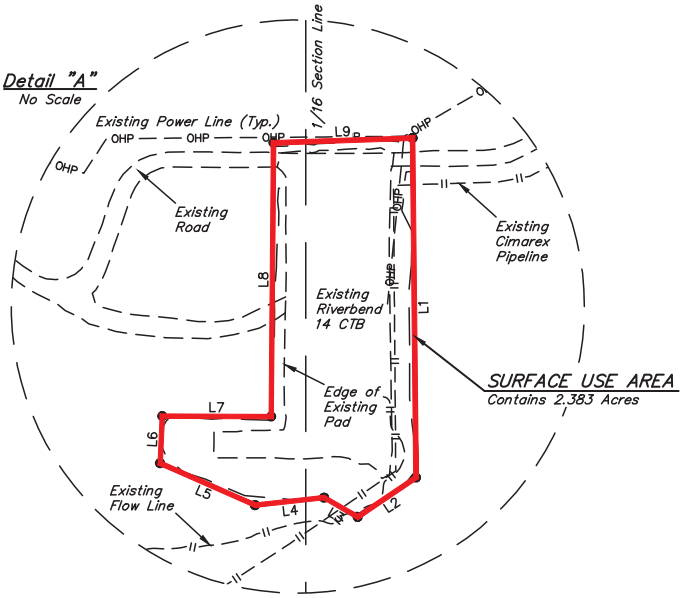


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS S68°03'17"W 1272.60' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE [PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

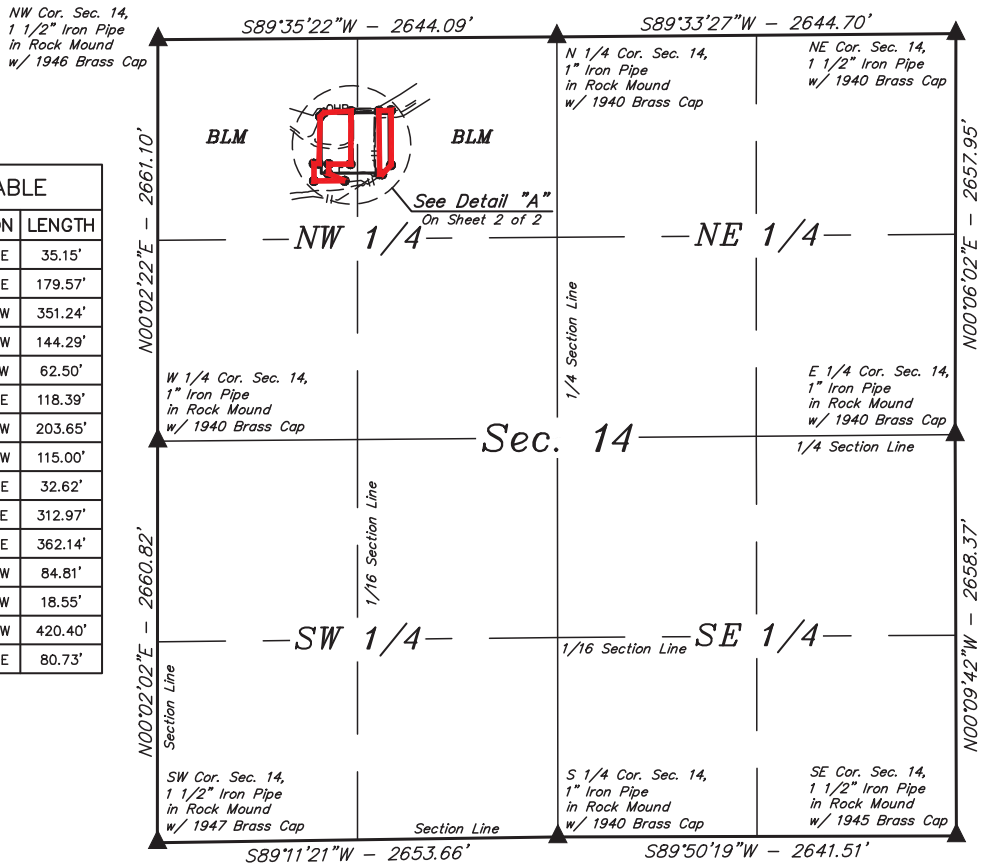
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		
EXISTING SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N44°40'42"E	35.15'
L2	N87°00'34"E	179.57'
L3	S00°29'04"W	351.24'
L4	N89°45'49"W	144.29'
L5	S02°41'43"W	62.50'
L6	S66°08'24"E	118.39'
L7	S89°35'22"W	203.65'
L8	N00°24'38"W	115.00'
L9	N89°35'22"E	32.62'
L10	N01°46'53"E	312.97'
L11	S00°04'00"E	362.14'
L12	S43°29'22"W	84.81'
L13	N85°13'30"W	18.55'
L14	N00°34'57"W	420.40'
L15	N88°45'35"E	80.73'

SURFACE USE AREA "A" DESCRIPTION

COMMENCING AT THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 14 BEARS N89°35'22"E 2644.09', THENCE S64°40'24"E 1189.56' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N44°40'42"E 35.15'; THENCE N87°00'34"E 179.57'; THENCE S00°29'04"W 351.24'; THENCE N89°45'49"W 144.29'; THENCE S02°41'43"W 62.50'; THENCE S66°08'24"E 118.39'; THENCE S89°35'22"W 203.65'; THENCE N00°24'38"W 115.00'; THENCE N89°35'22"E 32.62'; THENCE N01°46'53"E 312.97' TO THE POINT OF BEGINNING. CONTAINS 1.946 ACRES MORE OR LESS.

SURFACE USE AREA "B" DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S66°03'17"W 1203.08' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°04'00"E 362.14'; THENCE S43°29'22"W 84.81'; THENCE N85°13'30"W 18.55'; THENCE N00°34'57"W 420.40'; THENCE N88°45'35"E 80.73' TO THE POINT OF BEGINNING. CONTAINS 0.723 ACRES MORE OR LESS.

POINT OF BEGINNING "A" BEARS S64°40'24"E
1189.56' FROM THE NORTHWEST CORNER OF
SECTION 14, T25S, R28E, N.M.P.M.

POINT OF BEGINNING "B" BEARS S66°03'17"W
1203.08' FROM THE NORTH 1/4 CORNER OF
SECTION 14, T25S, R28E, N.M.P.M.

SURFACE USE AREA "A" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	1.946

SURFACE USE AREA "B" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.723

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

Sheet 1 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

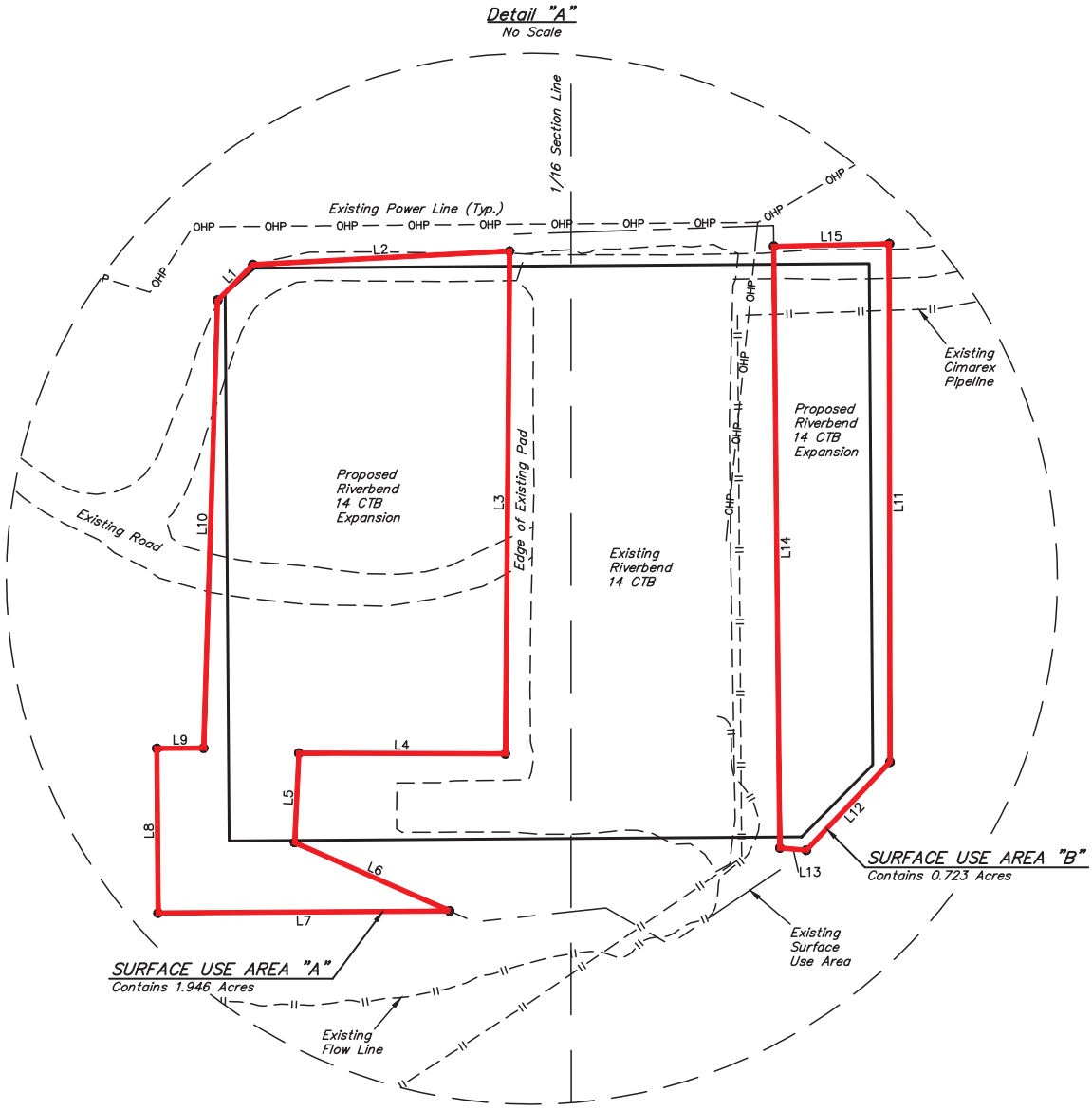
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A1		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CERTIFICATE

THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 2 of 2

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

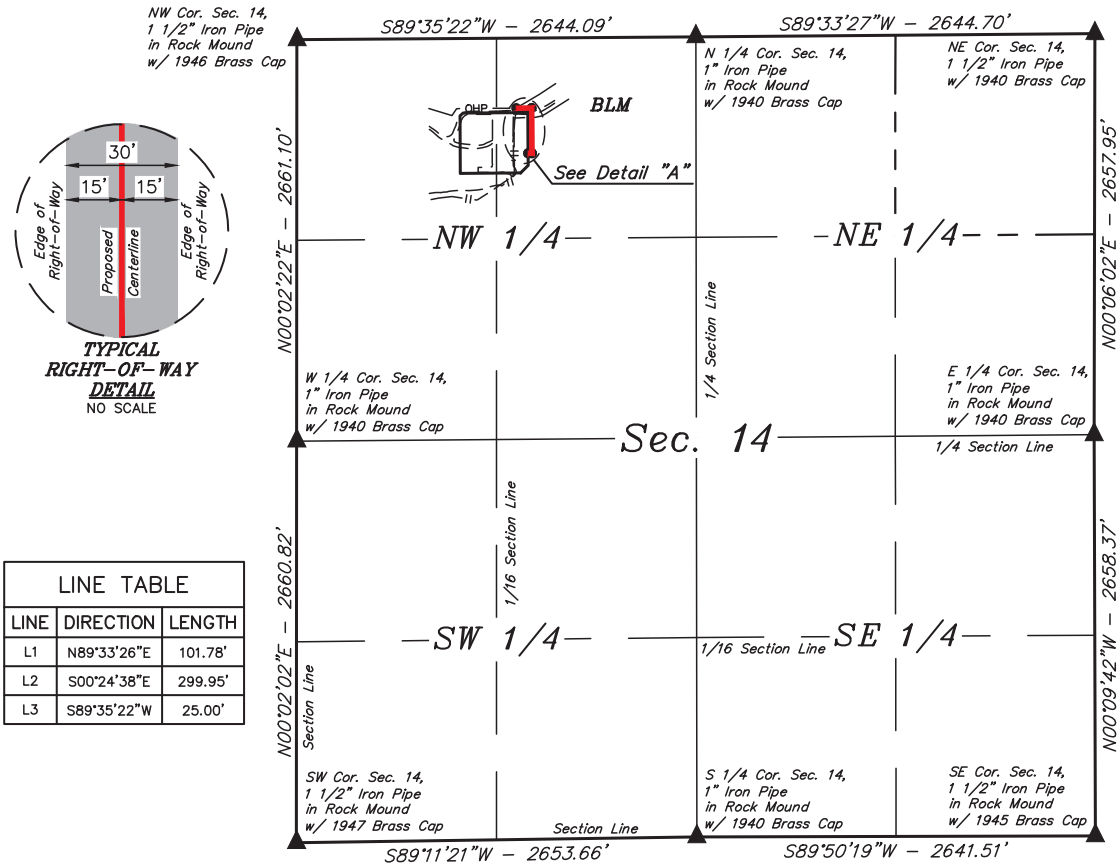
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CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



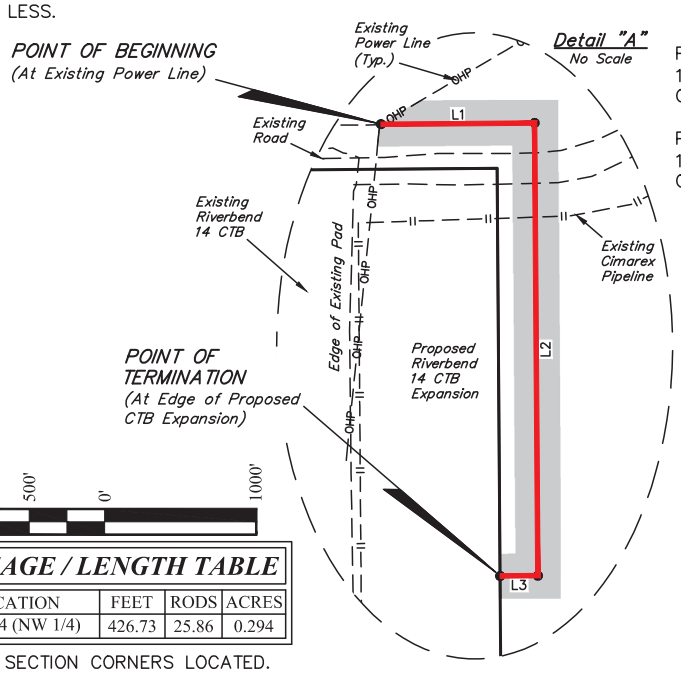
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°33'26"E	101.78'
L2	S00°24'38"E	299.95'
L3	S89°35'22"W	25.00'

POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 299.95'; THENCE S89°35'22"W 25.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.294 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S68°20'04"W 1281.05' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	426.73	25.86	0.294

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

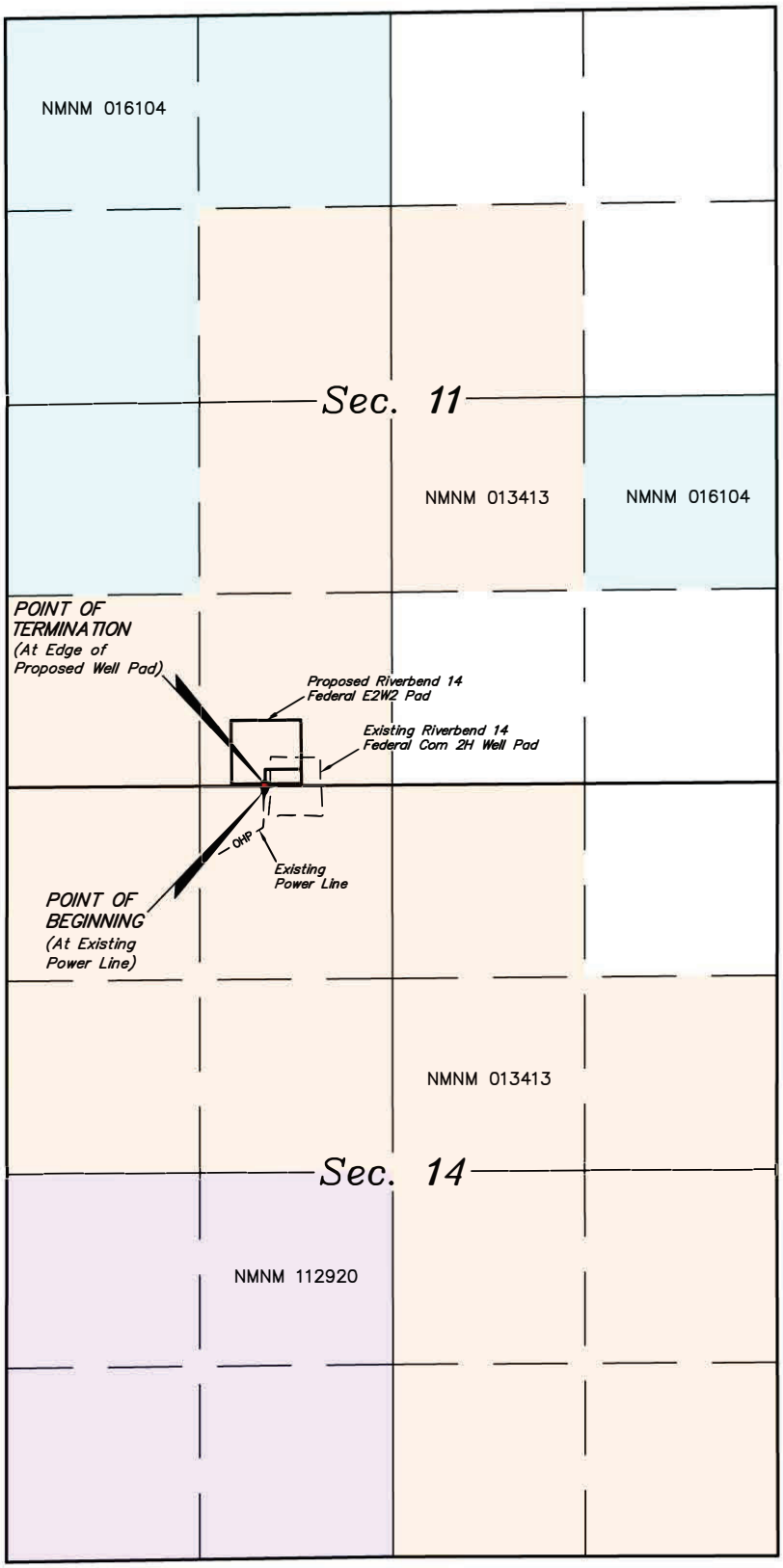
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		
POWER LINE R-O-W			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE:
- Colored areas within section lines represent Federal oil & gas leases.

LEGEND:
- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

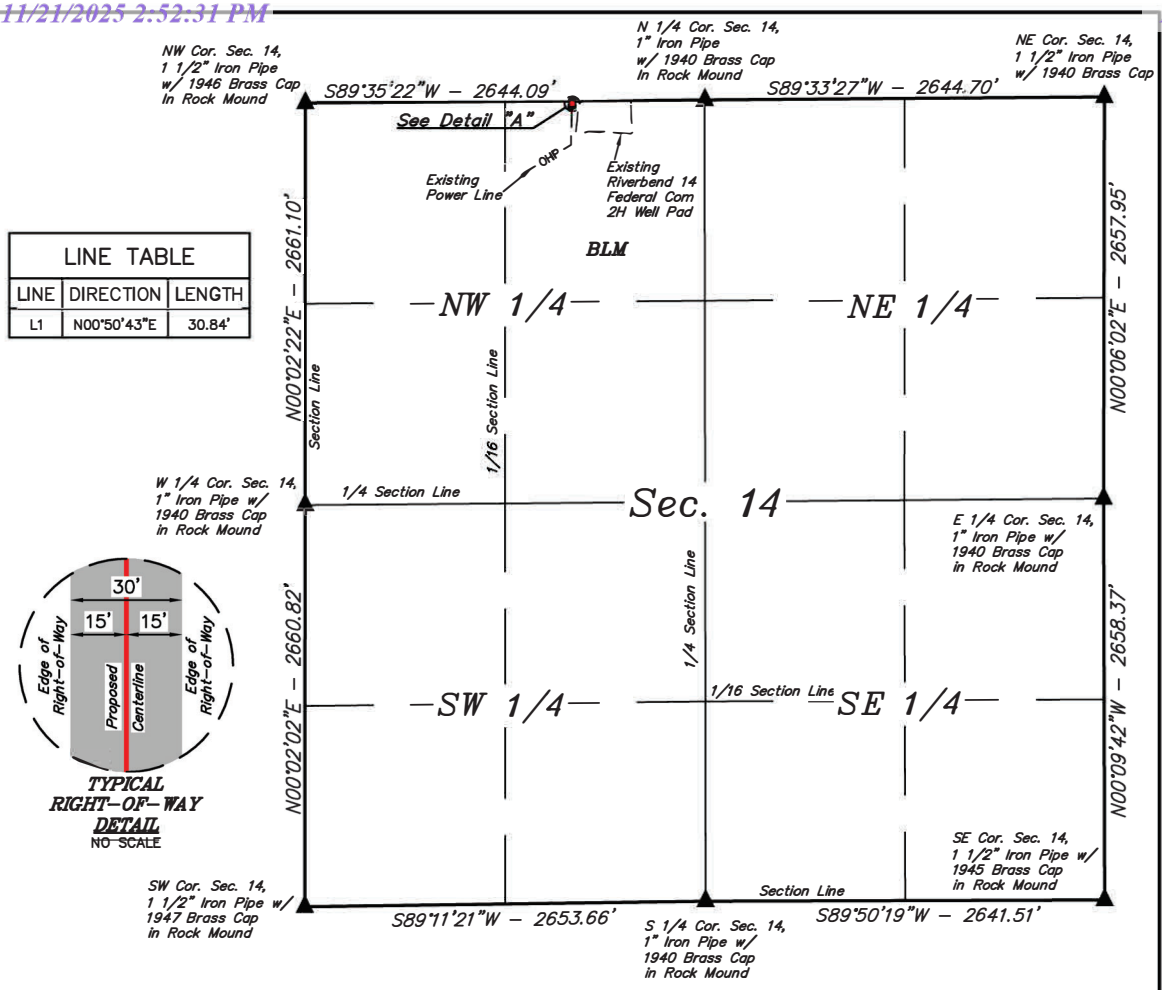
N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTIONS 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	**SCALE**
DRAWN BY	L.T.T.	11-12-24	1" = 1000'

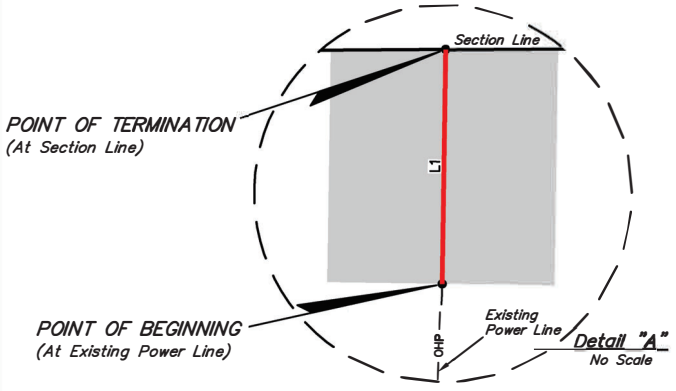
OVERALL POWER LINE



POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S87°34'46"W 879.10' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N00°50'43"E 30.84' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S89°35'22"W 877.88' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.021 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S87°34'46"W 879.10' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S89°35'22"W 877.88' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

CERTIFICATE

THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

23782 — 11-12-24 — PROFESSIONAL SURVEYOR

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	30.84	1.87	0.021

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

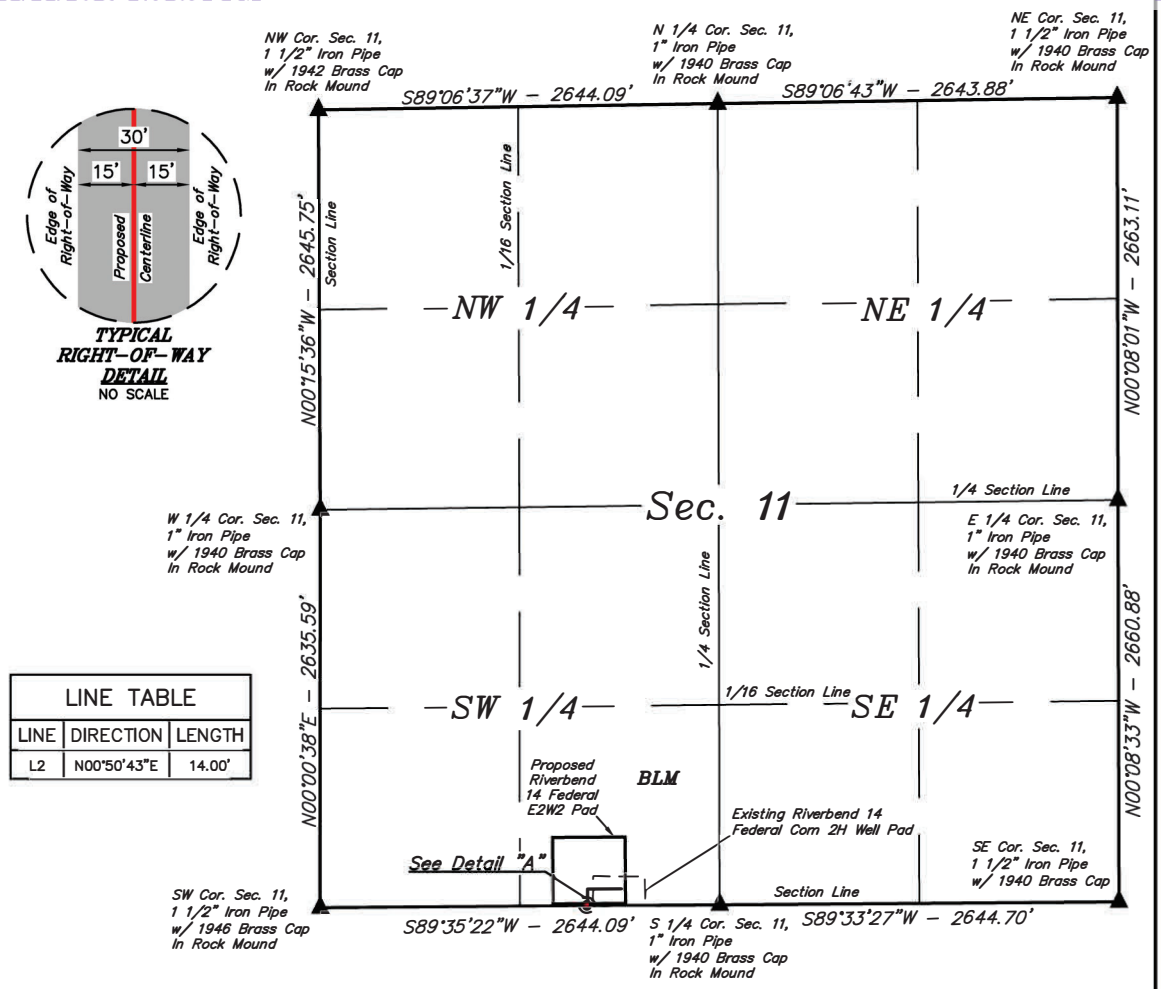
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-A1		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

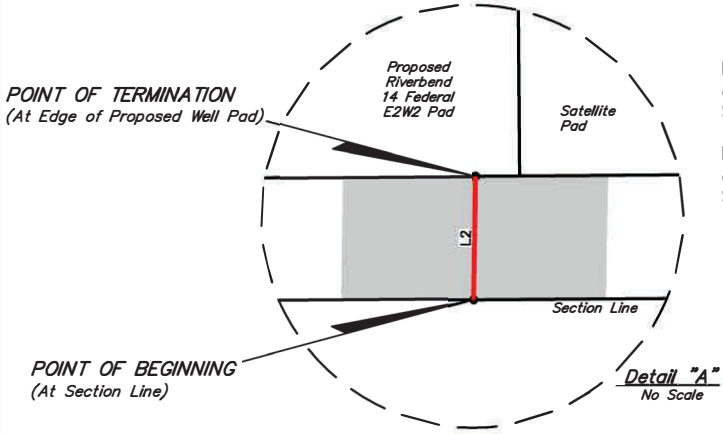


LINE TABLE		
LINE	DIRECTION	LENGTH
L2	N00°50'43"E	14.00'

POWER LINE RIGHT–OF–WAY DESCRIPTION

A 30' WIDE RIGHT–OF–WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 877.88' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 TO THE POINT OF BEGINNING; THENCE N00°50'43"E 14.00' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.010 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S89°35'22"W 877.88' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
11-12-24

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	14.00	0.85	0.010

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

Sheet 1 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

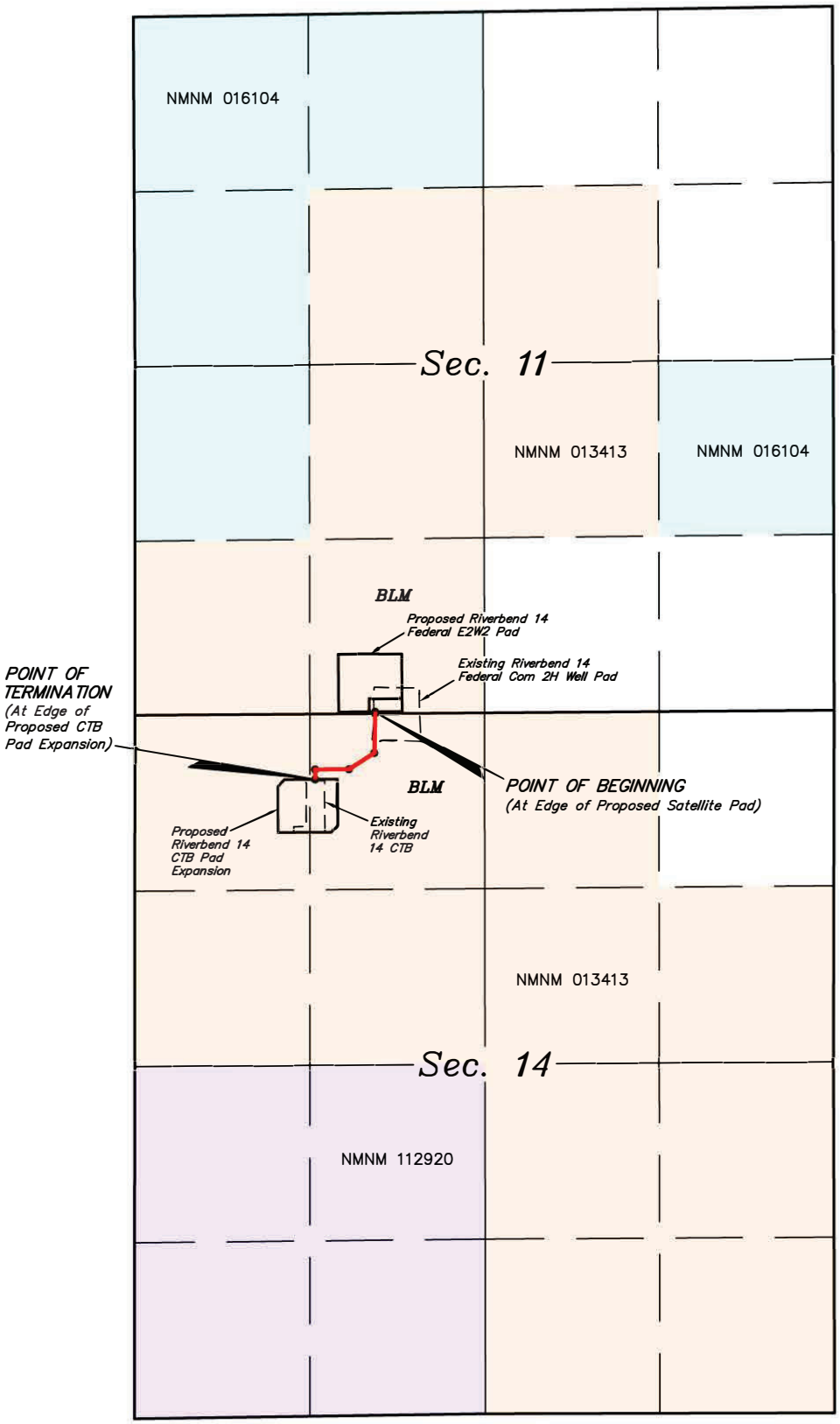
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-B1		
POWER LINE R-O-W			EXHIBIT I

N

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE:
- Colored areas within section lines represent Federal oil & gas leases.

LEGEND:
- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

N

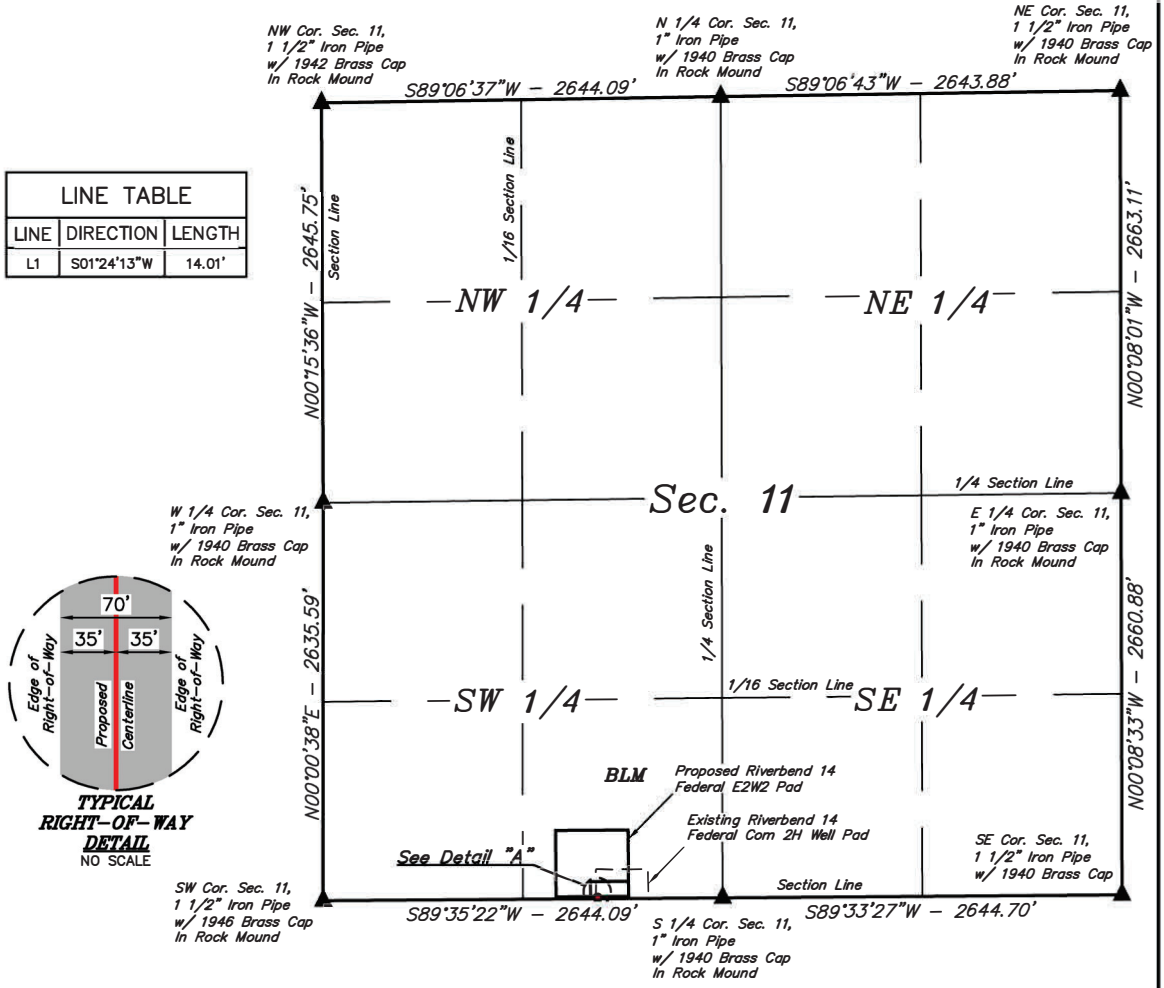
REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTIONS 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	**SCALE**
DRAWN BY	T.I.R.	09-24-24	1" = 1000'

OVERALL BULK LINE



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S01°24'13"W	14.01'

TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

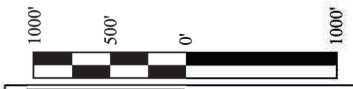
BULK LINE RIGHT-OF-WAY DESCRIPTION

A 70' WIDE RIGHT-OF-WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE N89°26'26"W 827.06' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF BEGINNING; THENCE S01°24'13"W 14.01' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS S89°35'22"W 827.38' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.023 ACRES MORE OR LESS.

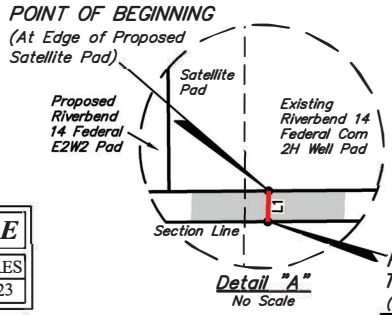
POINT OF BEGINNING BEARS N89°26'26"W 827.06' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S89°35'22"W 827.38' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

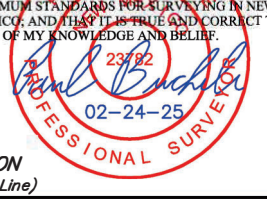


ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 11 (SW 1/4)	14.01	0.85	0.023

▲ = SECTION CORNERS LOCATED.



CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

CIMAREX ENERGY CO.

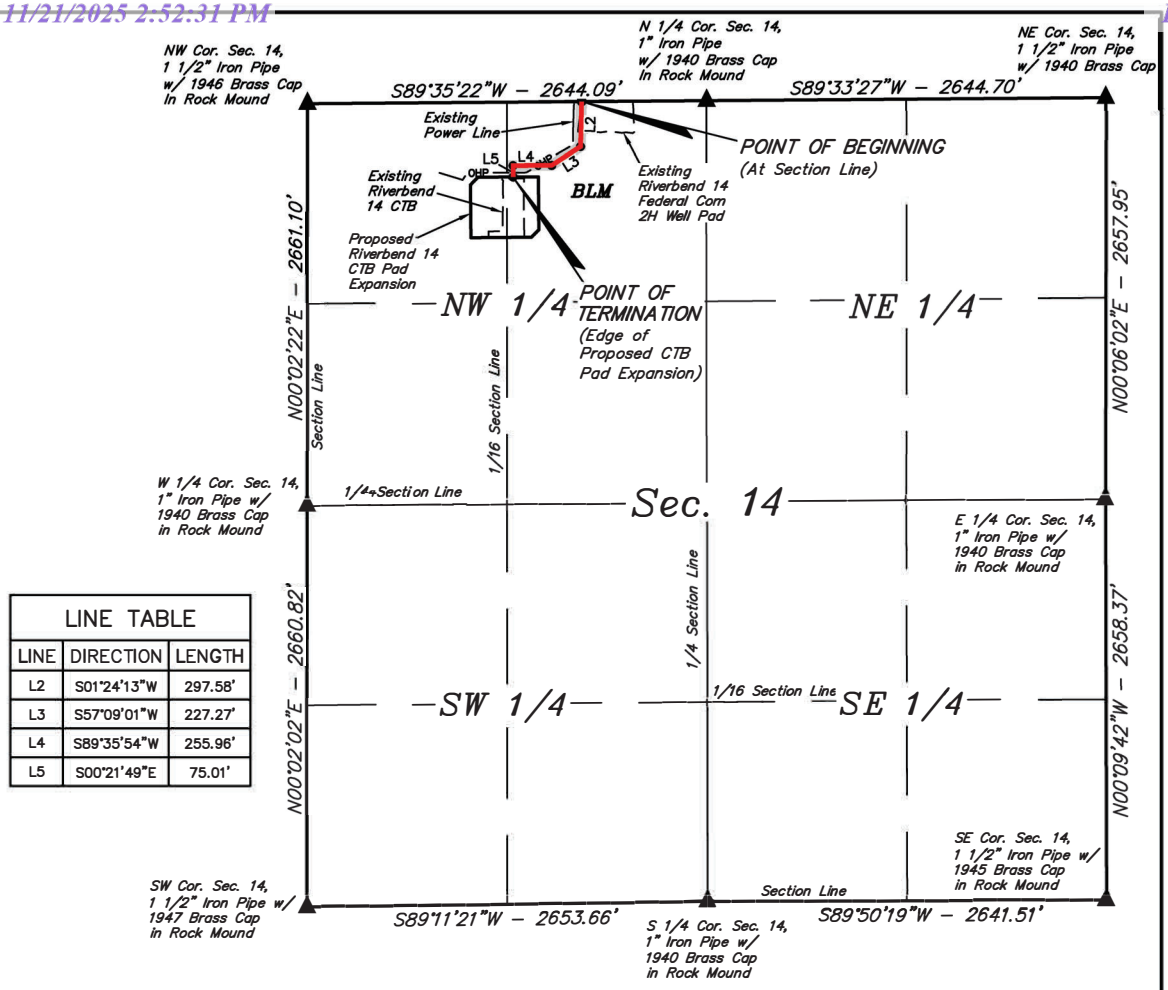
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-A1		
BULK LINE R-O-W			EXHIBIT G

N

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L2	S01°24'13"W	297.58'
L3	S57°09'01"W	227.27'
L4	S89°35'54"W	255.96'
L5	S00°21'49"E	75.01'

BULK LINE RIGHT–OF–WAY DESCRIPTION

A 70' WIDE RIGHT–OF–WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 827.38' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S01°24'13"W 297.58'; THENCE S57°09'01"W 227.27'; THENCE S89°35'54"W 255.96'; THENCE S00°21'49"E 75.01' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S68°32'37"W 1376.45' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 1.375 ACRES MORE OR LESS.

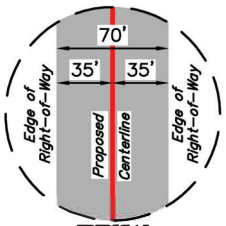
POINT OF BEGINNING BEARS S89°35'22"W 827.38' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S68°32'37"W 1376.45' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.



ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	855.82	51.87	1.375

▲ = SECTION CORNERS LOCATED.



TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

CERTIFICATE
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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
02–24–25

REV: 2 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-B1		
BULK LINE R-O-W			EXHIBIT G

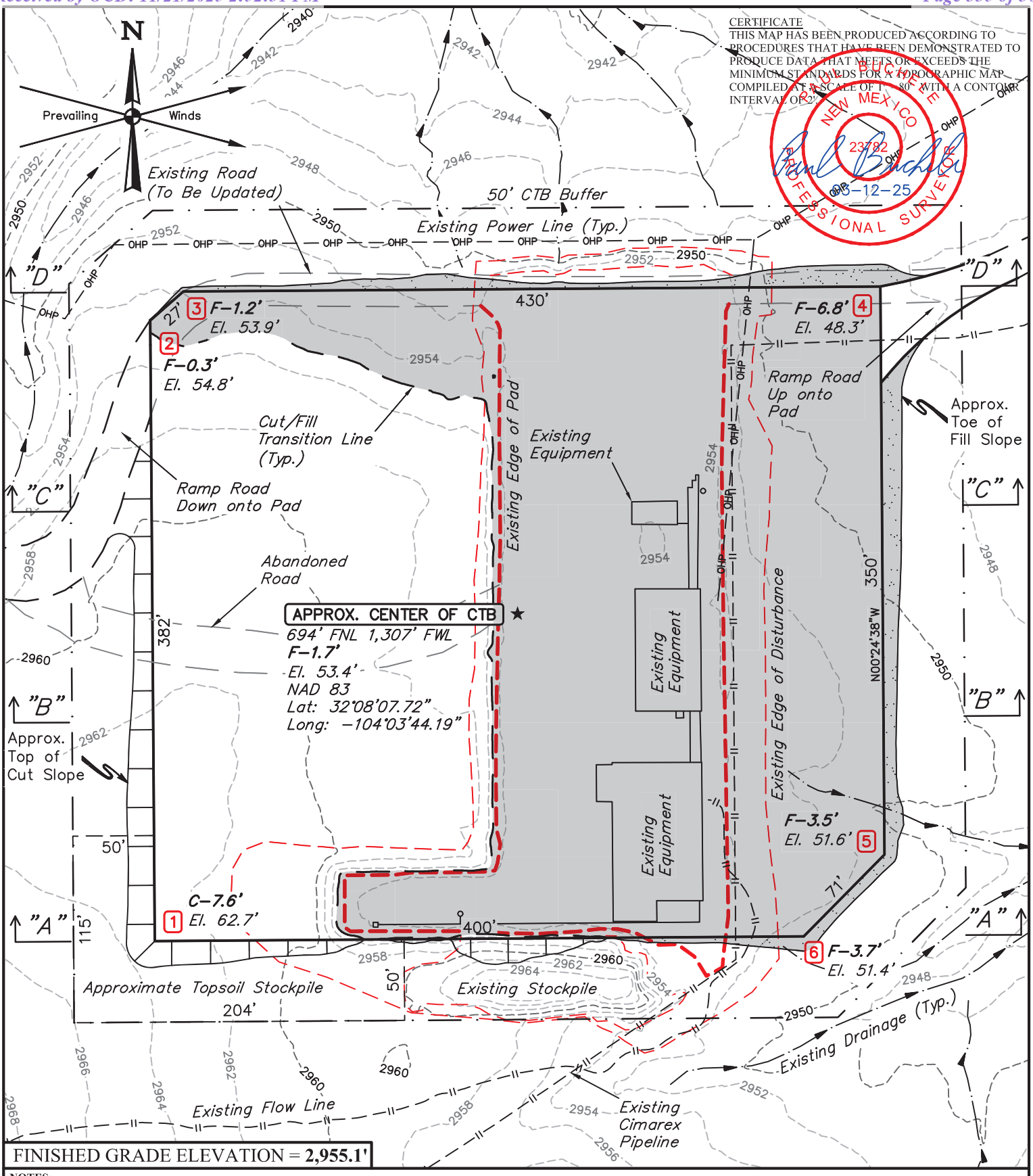
UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

CIMAREX ENERGY CO.
RIVERBEND 14 CTB
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DATE:	DESCRIPTION:
3/19/2025	FINAL PLAT PACKAGE

UINTAH
ENGINEERING & LAND SURVEYING



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BUCKNER NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

FINISHED GRADE ELEVATION = **2,955.1'**

NOTES:

- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ. except where noted)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

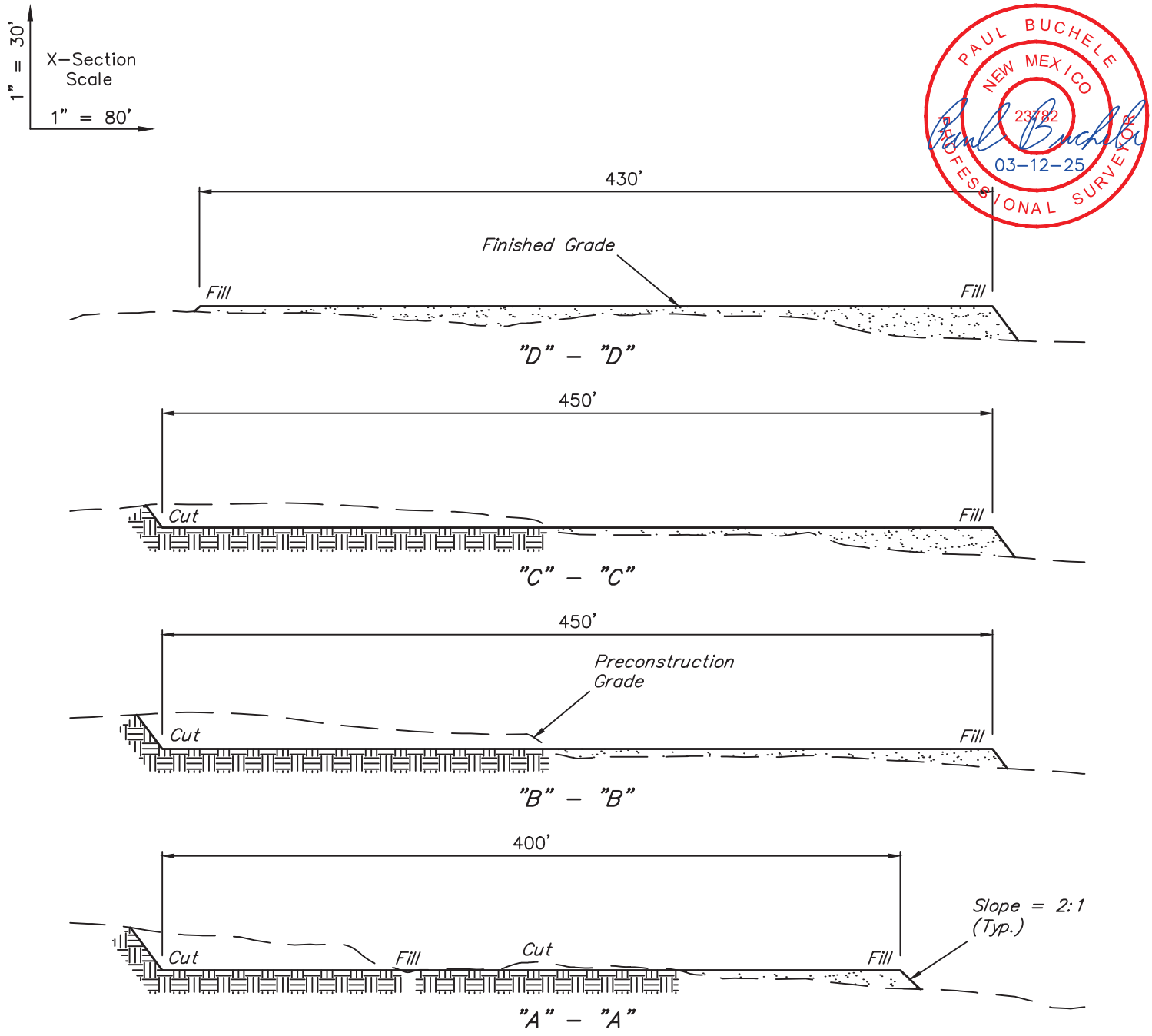
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
LOCATION LAYOUT			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
03-12-25

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	1,300 Cu. Yds.
REMAINING LOCATION	10,920 Cu. Yds.
TOTAL CUT	**12,220 Cu. Yds.**
FILL	**10,920 Cu. Yds.**
EXCESS MATERIAL	1,300 Cu. Yds.
TOPSOIL	1,300 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
EXISTING PAD DISTURBANCE	NA	±2.383
PROPOSED EXPANSION DISTURBANCE (NEW CONSTRUCTION ONLY)	NA	±2.669
30' WIDE POWER LINE R-O-W DISTURBANCE	±426.73'	±0.294
TOTAL SURFACE USE AREA		**±5.346**

NOTES:

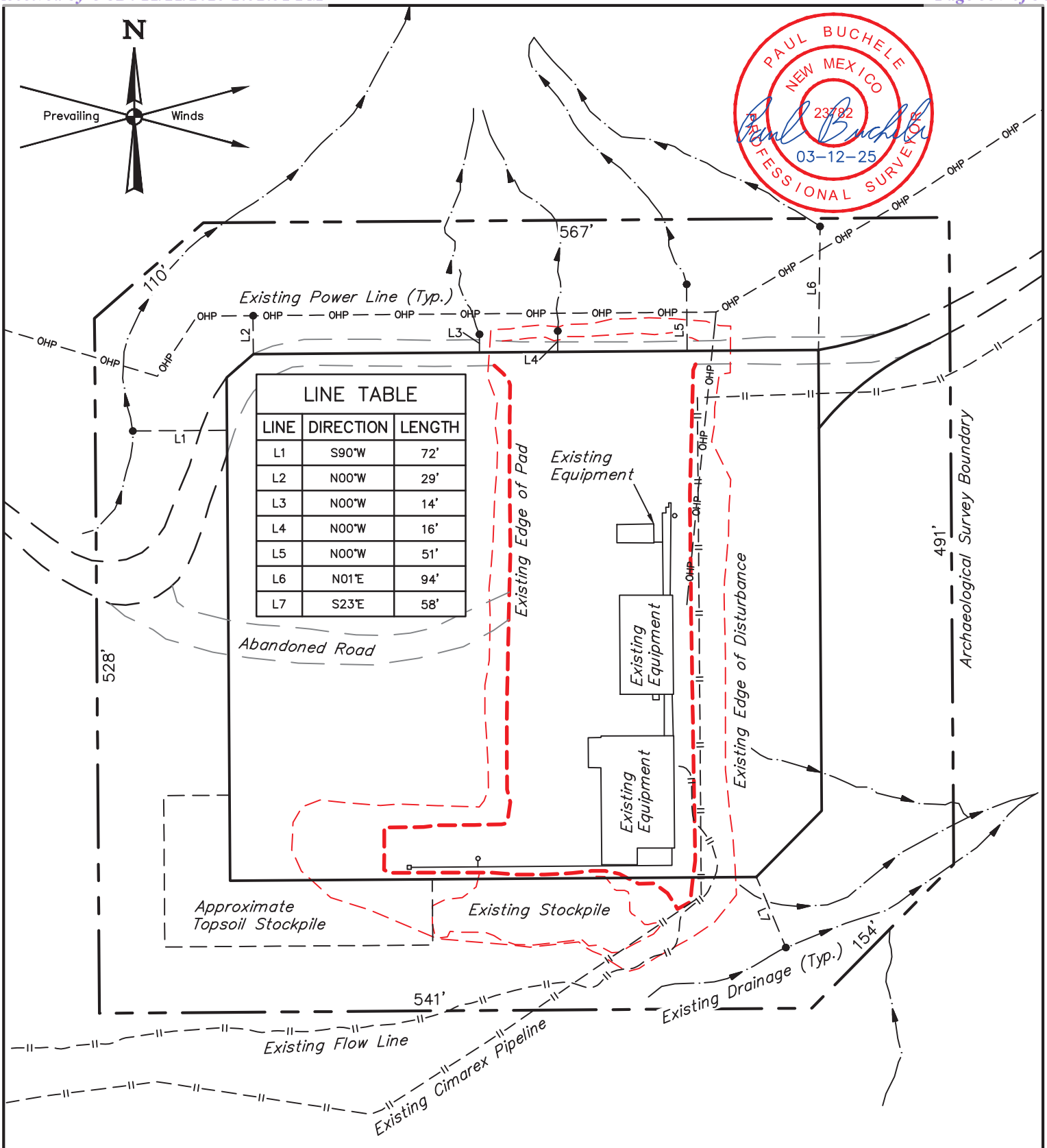
- Fill quantity includes 5% for compaction.

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	**SCALE**
DRAWN BY	N.R.	03-12-25	AS SHOWN
TYPICAL CROSS SECTIONS			**EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

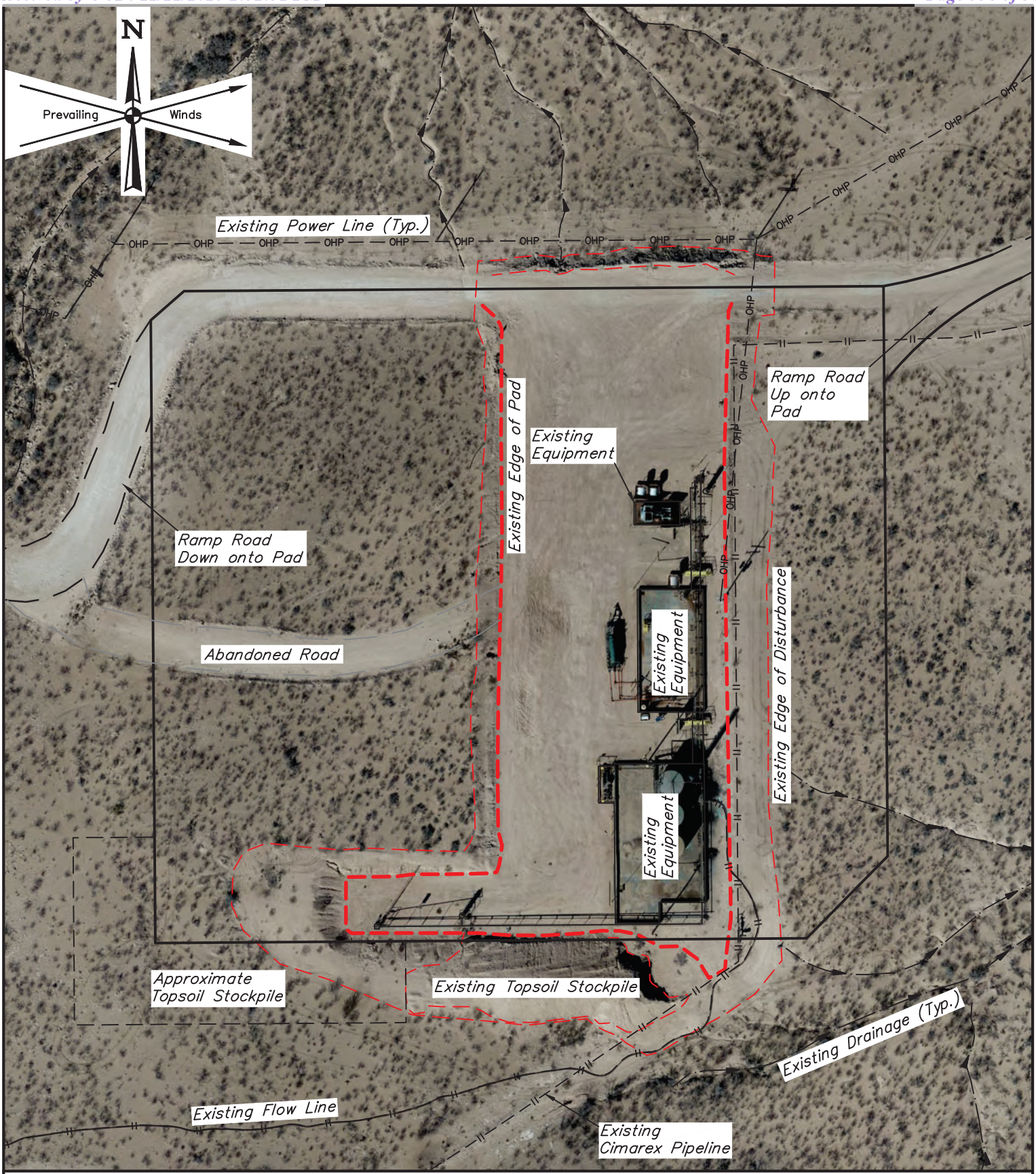
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
AERIAL SITE PLAN			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.0 MILE TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.0 MILES.

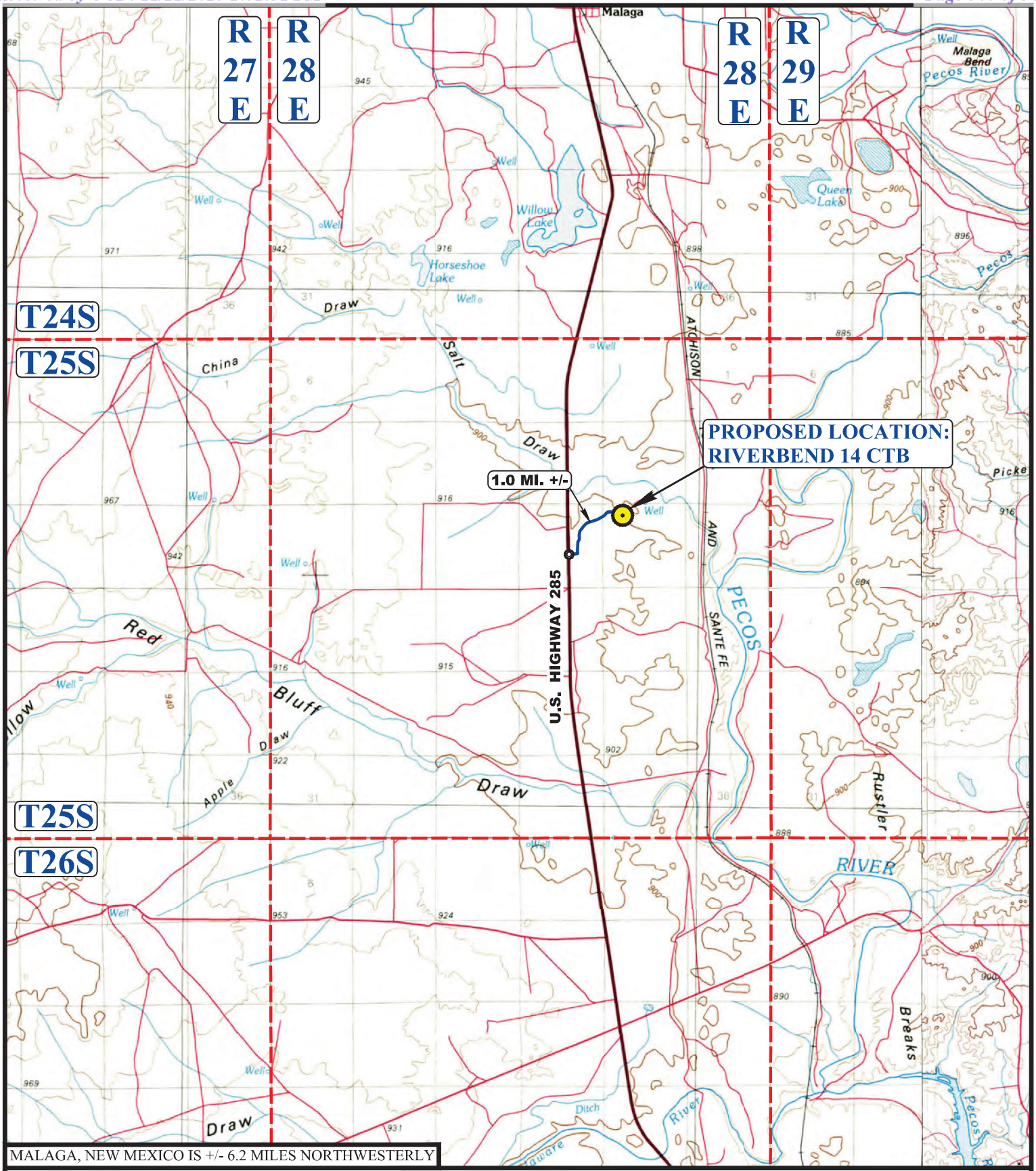
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
NW 1/4 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	

ROAD DESCRIPTION **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

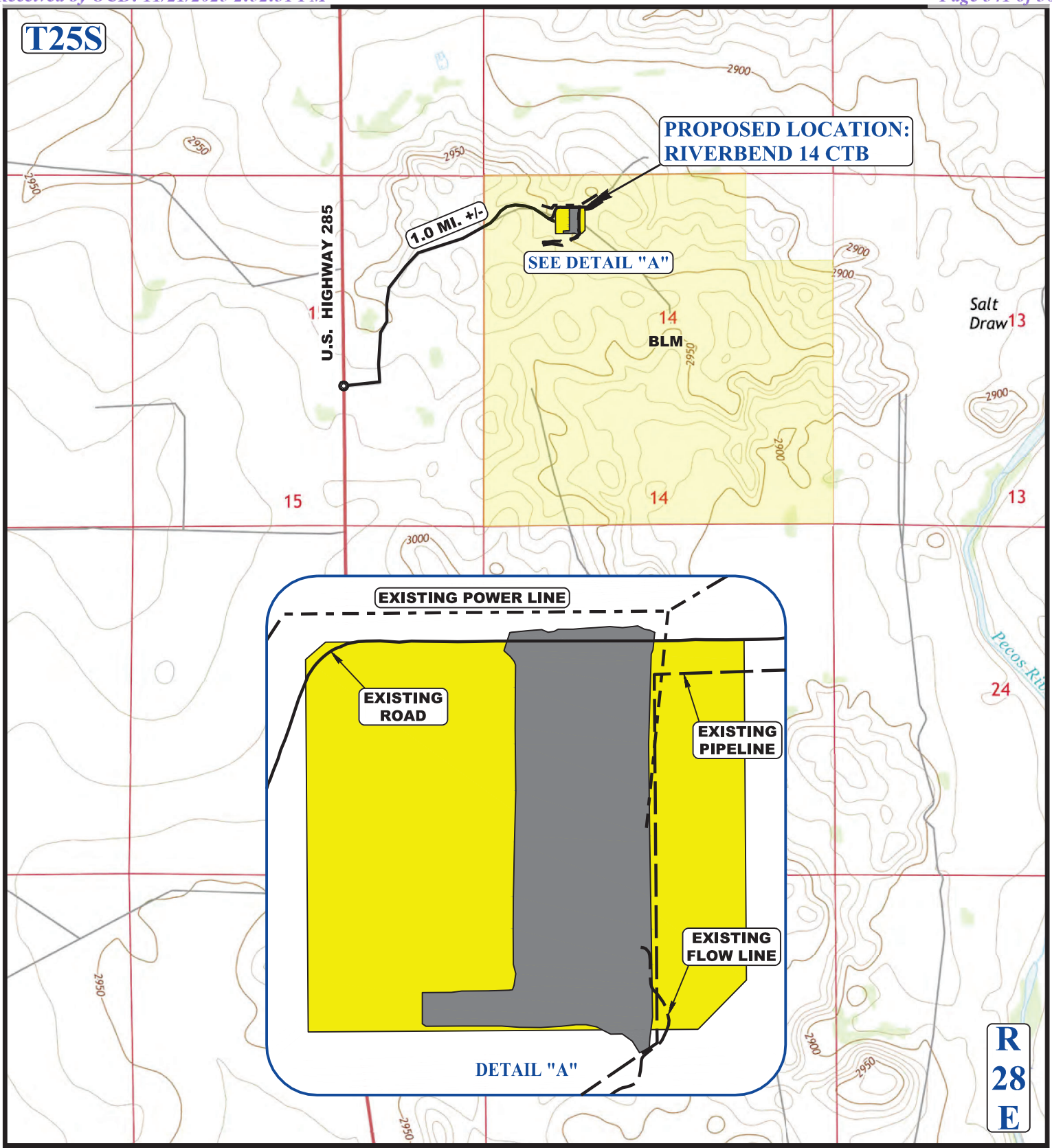
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP | **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE/FLOW LINE

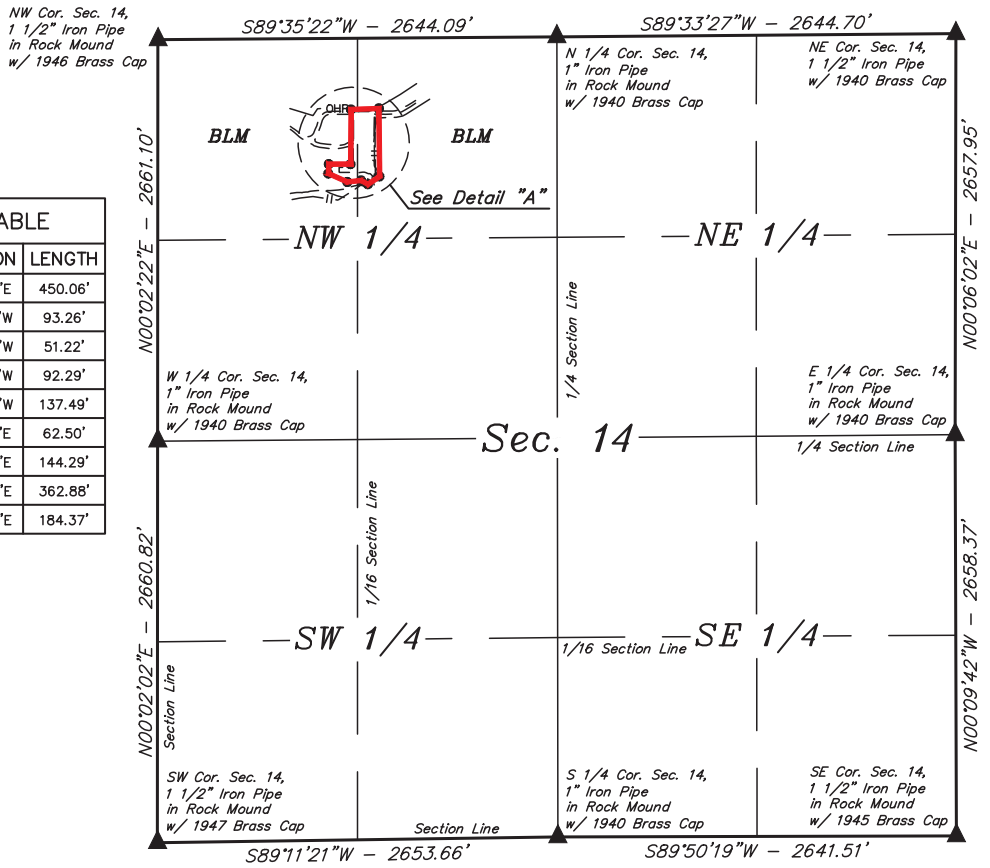
N

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 24,000
NEW ROAD MAP			EXHIBIT F

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

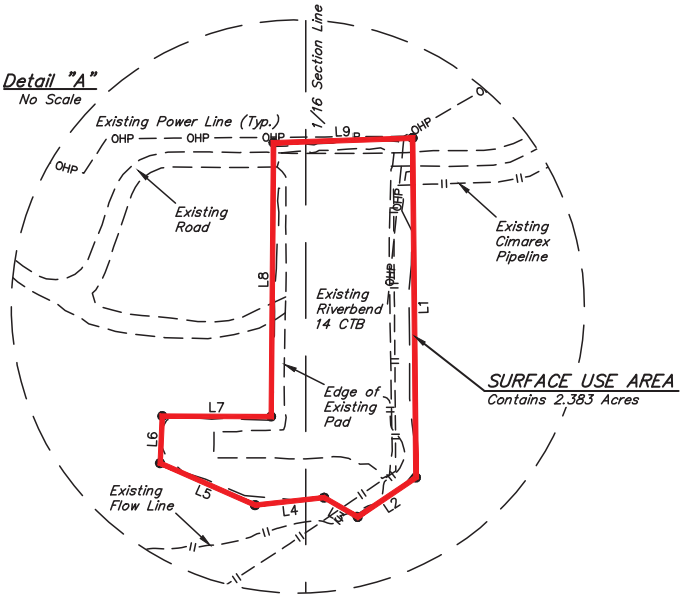


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS S68°03'17"W 1272.60' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

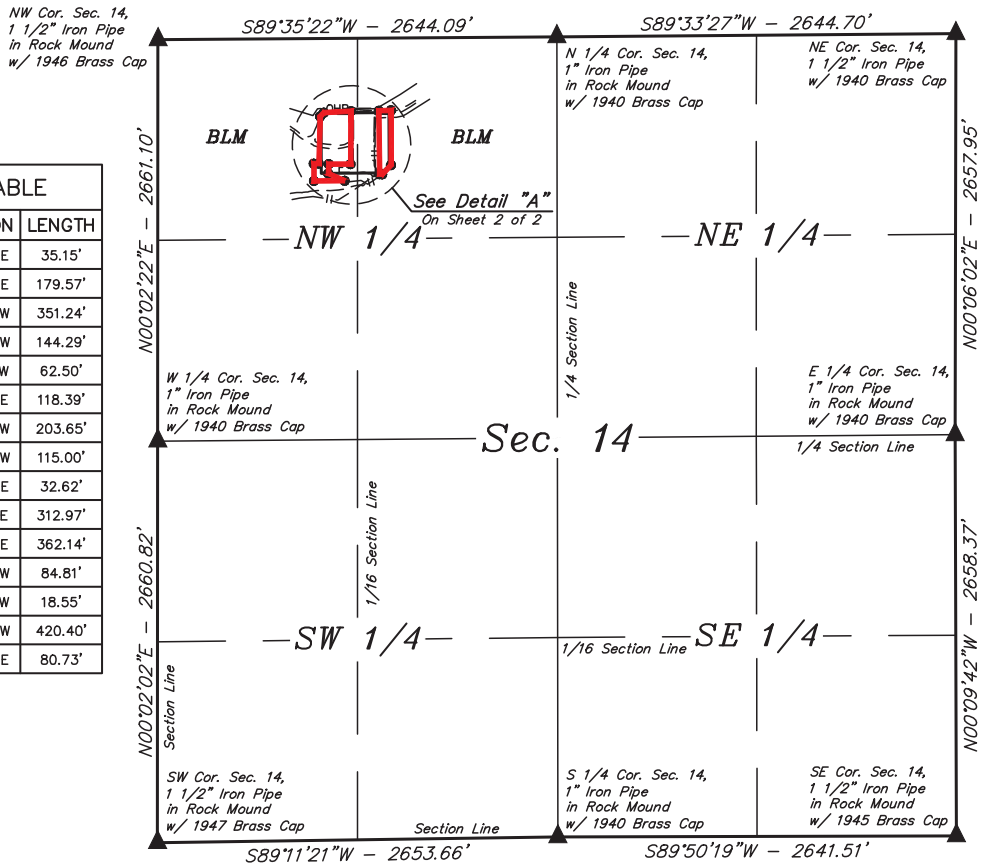
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		
EXISTING SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N44°40'42"E	35.15'
L2	N87°00'34"E	179.57'
L3	S00°29'04"W	351.24'
L4	N89°45'49"W	144.29'
L5	S02°41'43"W	62.50'
L6	S66°08'24"E	118.39'
L7	S89°35'22"W	203.65'
L8	N00°24'38"W	115.00'
L9	N89°35'22"E	32.62'
L10	N01°46'53"E	312.97'
L11	S00°04'00"E	362.14'
L12	S43°29'22"W	84.81'
L13	N85°13'30"W	18.55'
L14	N00°34'57"W	420.40'
L15	N88°45'35"E	80.73'

SURFACE USE AREA "A" DESCRIPTION

COMMENCING AT THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 14 BEARS N89°35'22"E 2644.09', THENCE S64°40'24"E 1189.56' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N44°40'42"E 35.15'; THENCE N87°00'34"E 179.57'; THENCE S00°29'04"W 351.24'; THENCE N89°45'49"W 144.29'; THENCE S02°41'43"W 62.50'; THENCE S66°08'24"E 118.39'; THENCE S89°35'22"W 203.65'; THENCE N00°24'38"W 115.00'; THENCE N89°35'22"E 32.62'; THENCE N01°46'53"E 312.97' TO THE POINT OF BEGINNING. CONTAINS 1.946 ACRES MORE OR LESS.

SURFACE USE AREA "B" DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S66°03'17"W 1203.08' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°04'00"E 362.14'; THENCE S43°29'22"W 84.81'; THENCE N85°13'30"W 18.55'; THENCE N00°34'57"W 420.40'; THENCE N88°45'35"E 80.73' TO THE POINT OF BEGINNING. CONTAINS 0.723 ACRES MORE OR LESS.

POINT OF BEGINNING "A" BEARS S64°40'24"E 1189.56' FROM THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF BEGINNING "B" BEARS S66°03'17"W 1203.08' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

SURFACE USE AREA "A" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	1.946

SURFACE USE AREA "B" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.723

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

CERTIFICATE

THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 1 of 2

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

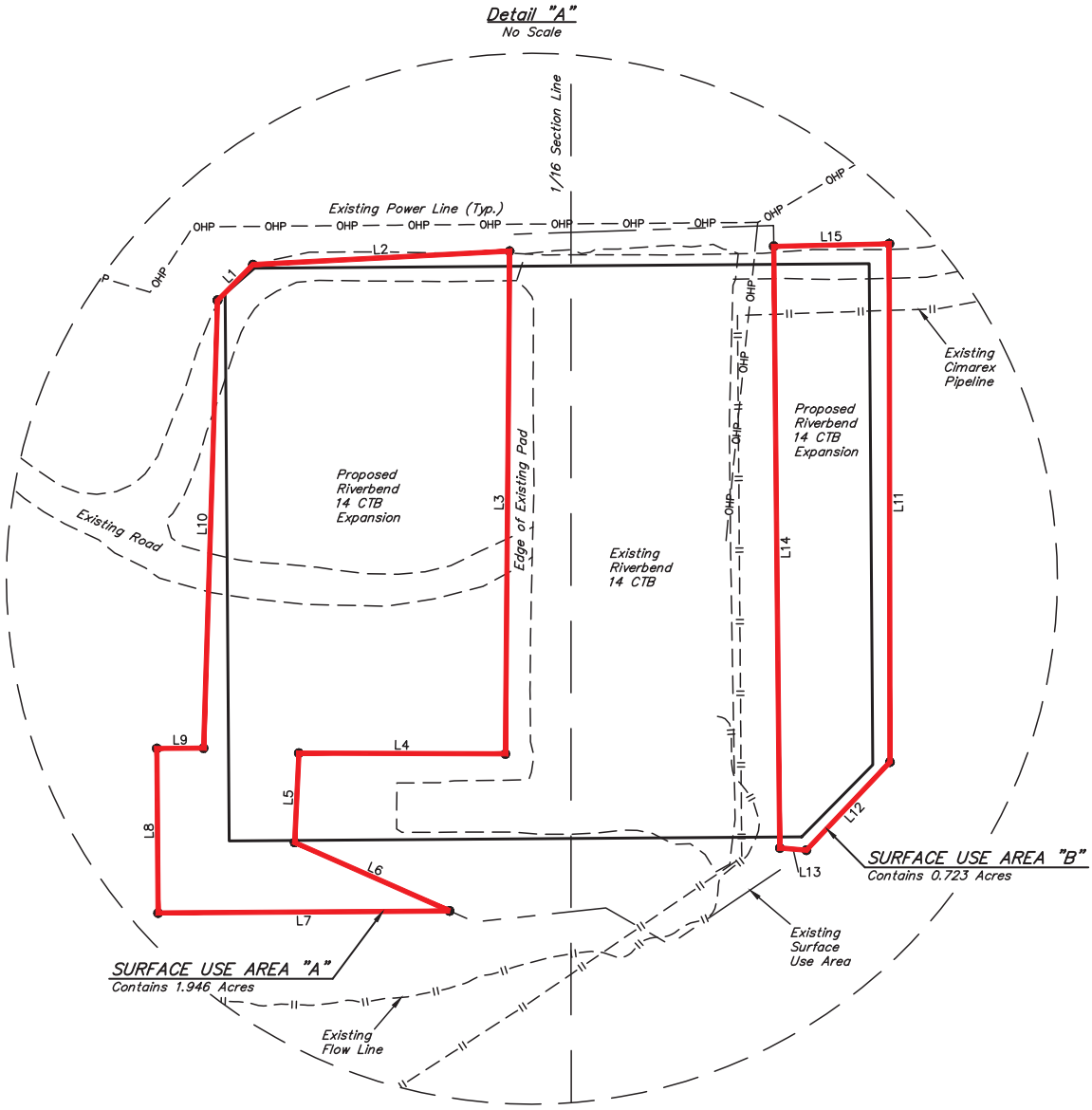
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CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A1		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CERTIFICATE

THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 2 of 2

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

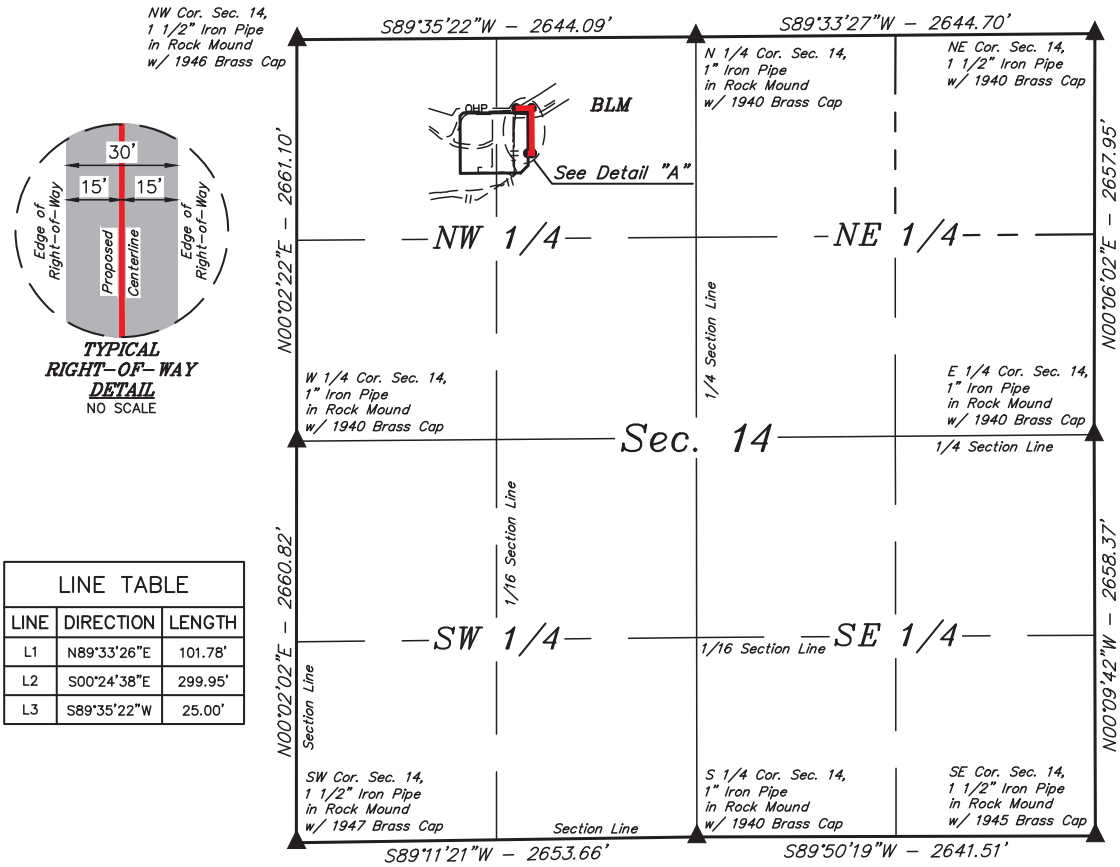
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CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



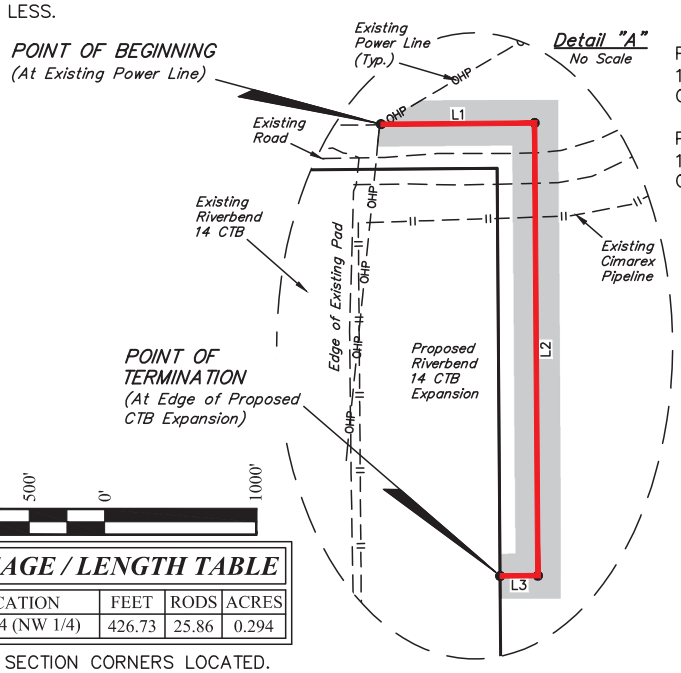
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°33'26"E	101.78'
L2	S00°24'38"E	299.95'
L3	S89°35'22"W	25.00'

POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 299.95'; THENCE S89°35'22"W 25.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.294 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S68°20'04"W 1281.05' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	426.73	25.86	0.294

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
Paul Buchheit
03-12-25

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		
POWER LINE R-O-W			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

RIVERBEND 14 FEDERAL COM 1H 264' FSL 1,880' FWL	RIVERBEND 14 FEDERAL COM 3H 264' FSL 1,860' FWL
RIVERBEND 14 FEDERAL COM 8H 264' FSL 1,840' FWL	RIVERBEND 14 FEDERAL COM 4H 264' FSL 1,800' FWL
RIVERBEND 14 FEDERAL COM 7H 264' FSL 1,820' FWL	

CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

"A" "B" "C" "D"

5 F-4.3' El. 33.9'

6 F-8.4' El. 29.8'

7 F-12.3' El. 25.9'

Alternate Egress

Approximate Topsoil Fill Area

4 F-0.1' El. 38.1'

F-2.5' El. 35.7'

F-3.7' El. 34.5'

8 F-7.1' El. 31.1'

Approx. Center of Pad (NAD 83)
Lat: 32°08'16.95"
Long: -104°03'38.71"

C-0.3' El. 38.5'

F-0.5' El. 37.7'

9 C-0.2' El. 38.4'

3 C-5.7' El. 43.9'

2 C-1.0' El. 39.2'

1 10

Satellite Pad

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Approx. Top of Cut Slope

Section Line

Section 11

Section 14

Existing Anchor

Existing Power Pole (Typ.)

Existing Power Line

Existing Edge of Pad

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

FINISHED GRADE ELEVATION = 2,938'

NOTE: Earthwork Calculations Require a Fill @ some Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

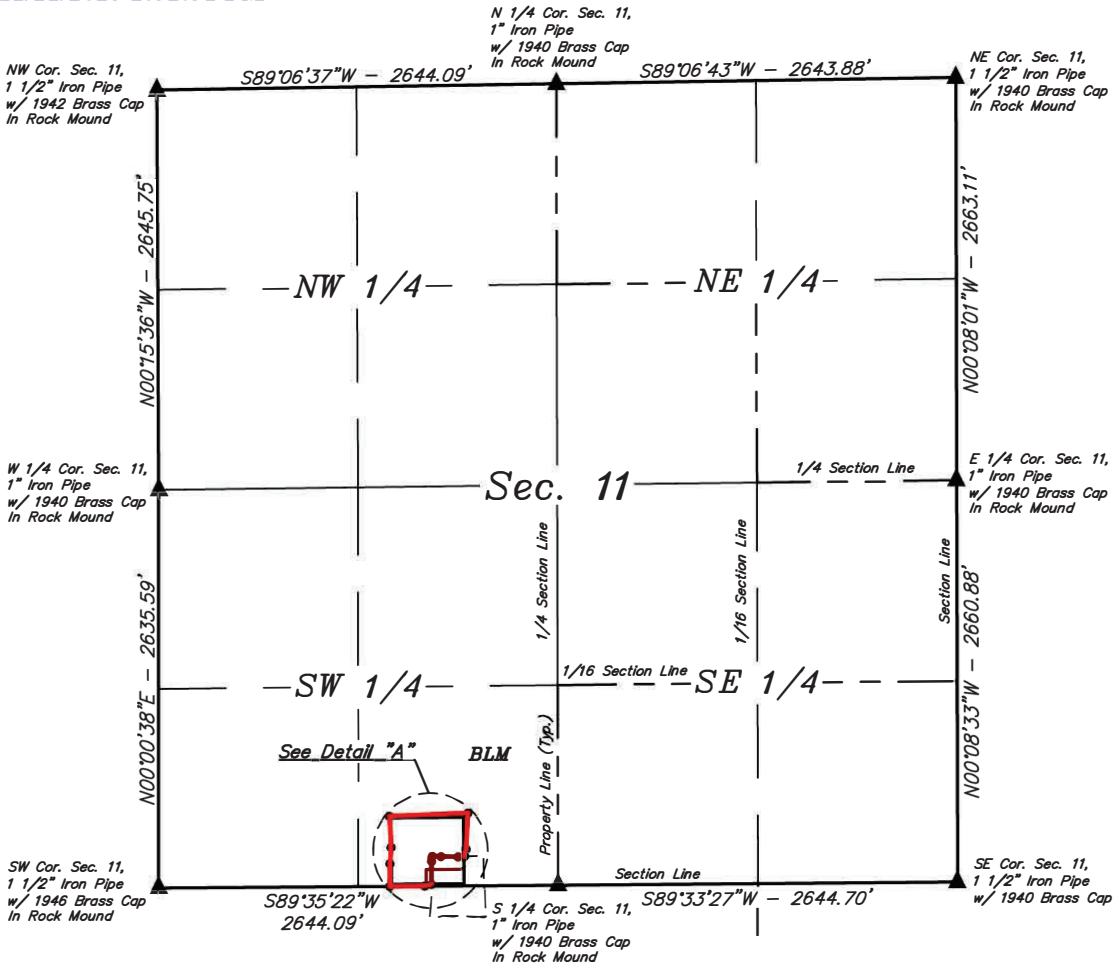
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'
LOCATION LAYOUT			EXHIBIT J

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



SURFACE USE AREA DESCRIPTION

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE N72°52'30"W 647.00' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF BEGINNING; THENCE N89°43'03"W 42.85'; THENCE N89°02'25"W 113.95'; THENCE N87°46'39"W 57.29'; THENCE S37°37'35"W 4.82'; THENCE S03°23'16"W 31.44'; THENCE S00°16'13"W 153.80'; THENCE S74°38'09"W 45.97' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11; THENCE S89°35'22"W 231.61' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11; THENCE N00°18'48"E 148.92'; THENCE N04°09'04"E 108.59'; THENCE N02°58'38"W 206.43'; THENCE N87°38'09"E 518.82'; THENCE S02°48'26"W 240.26'; THENCE S11°05'22"W 47.19' TO THE POINT OF BEGINNING. CONTAINS 4.428 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS N72°52'30"W
647.00' FROM THE SOUTH 1/4 CORNER
OF SECTION 11, T25S, R28E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 11 (SW 1/4)	4.428

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

23782 PROFESSIONAL SURVEYOR 08-20-24

Sheet 1 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

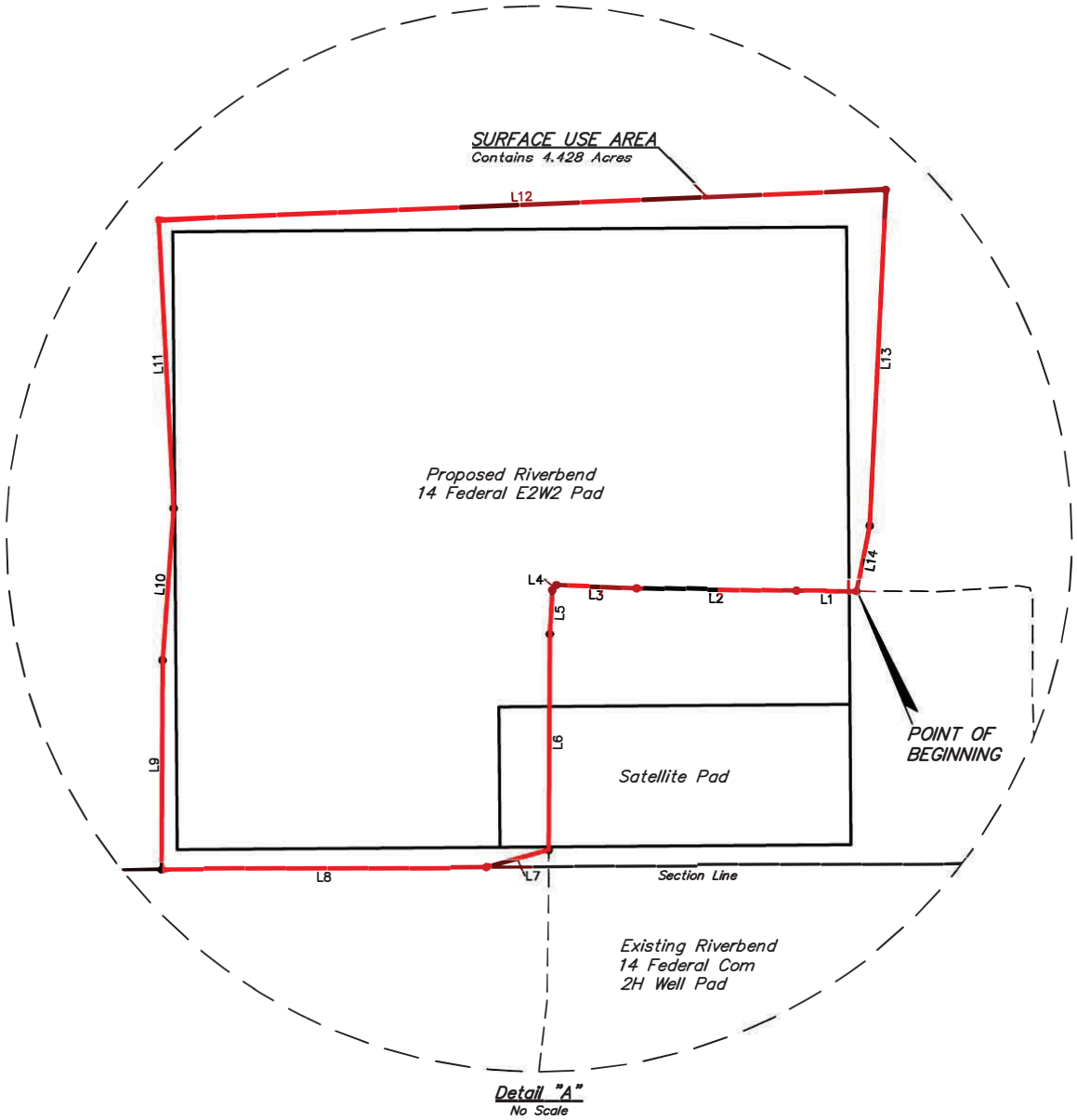
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-A1		

SURFACE USE AREA

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



Detail "A"
No Scale

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°43'03"W	42.85'
L2	N89°02'25"W	113.95'
L3	N87°46'39"W	57.29'
L4	S37°37'35"W	4.82'
L5	S03°23'16"W	31.44'
L6	S00°16'13"W	153.80'
L7	S74°38'09"W	45.97'
L8	S89°35'22"W	231.61'
L9	N00°18'48"E	148.92'
L10	N04°09'04"E	108.59'
L11	N02°58'38"W	206.43'
L12	N87°38'09"E	518.82'
L13	S02°48'26"W	240.26'
L14	S11°05'22"W	47.19'

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

Sheet 2 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

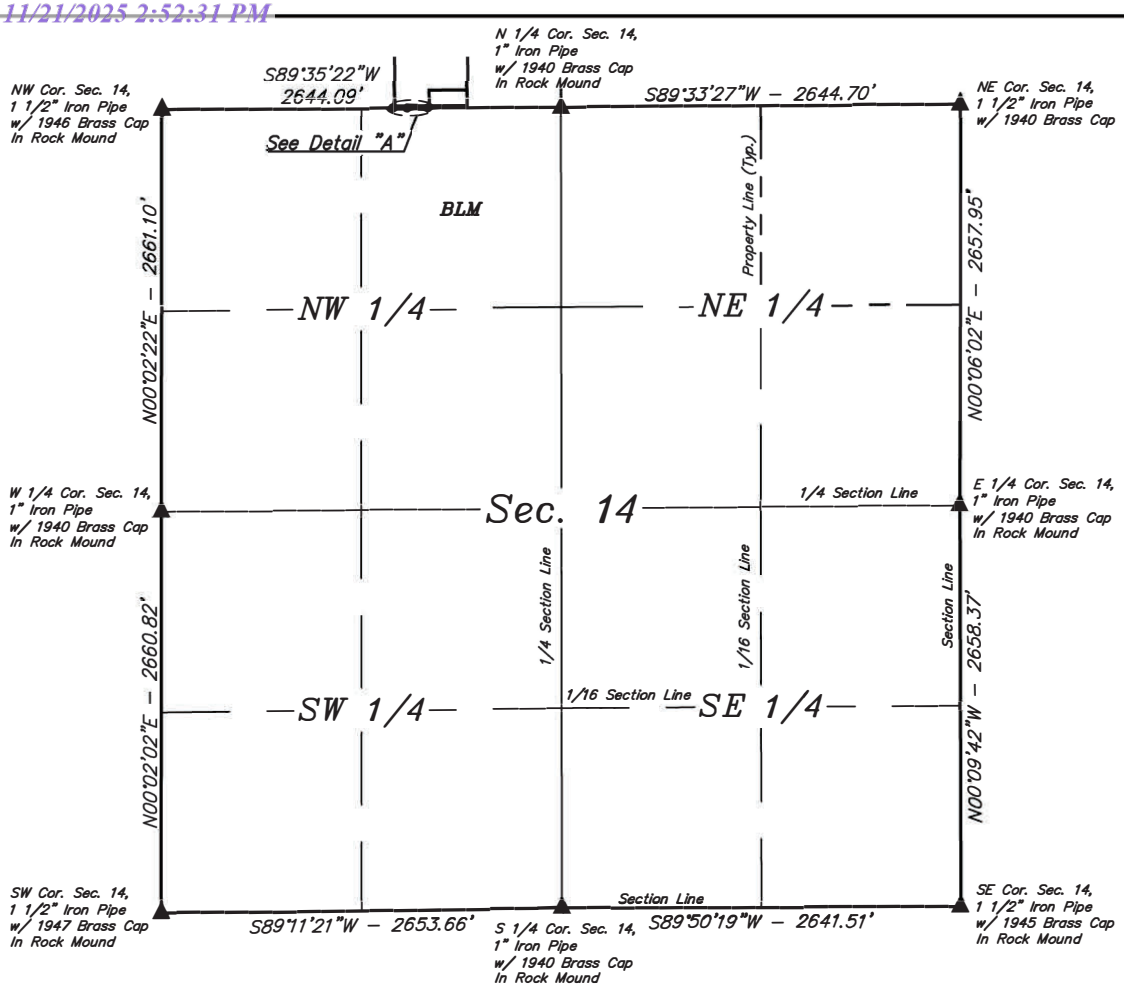
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-B1		

SURFACE USE AREA

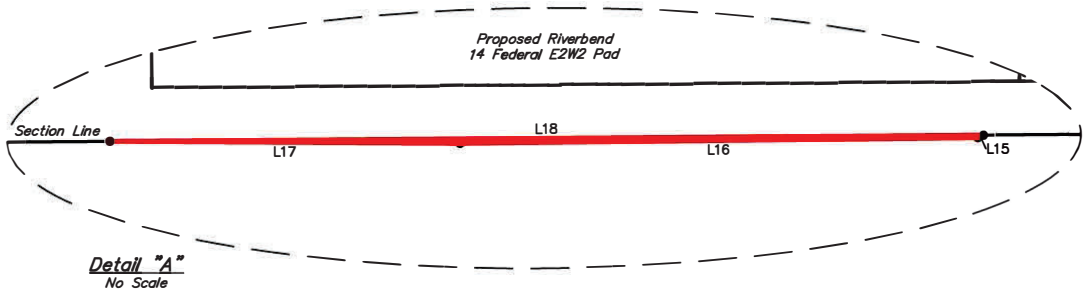
UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 882.23' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S66°42'17"W 1.80'; THENCE S89°22'43"W 137.12'; THENCE N89°40'05"W 92.84' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14; THENCE N89°35'22"E 231.61' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING. CONTAINS 0.004 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S89°35'22"W 882.23' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.004

▲ = SECTION CORNERS LOCATED.

LINE TABLE		
LINE	DIRECTION	LENGTH
L15	S66°42'17"W	1.80'
L16	S89°22'43"W	137.12'
L17	N89°40'05"W	92.84'
L18	N89°35'22"E	231.61'

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 08-20-24

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

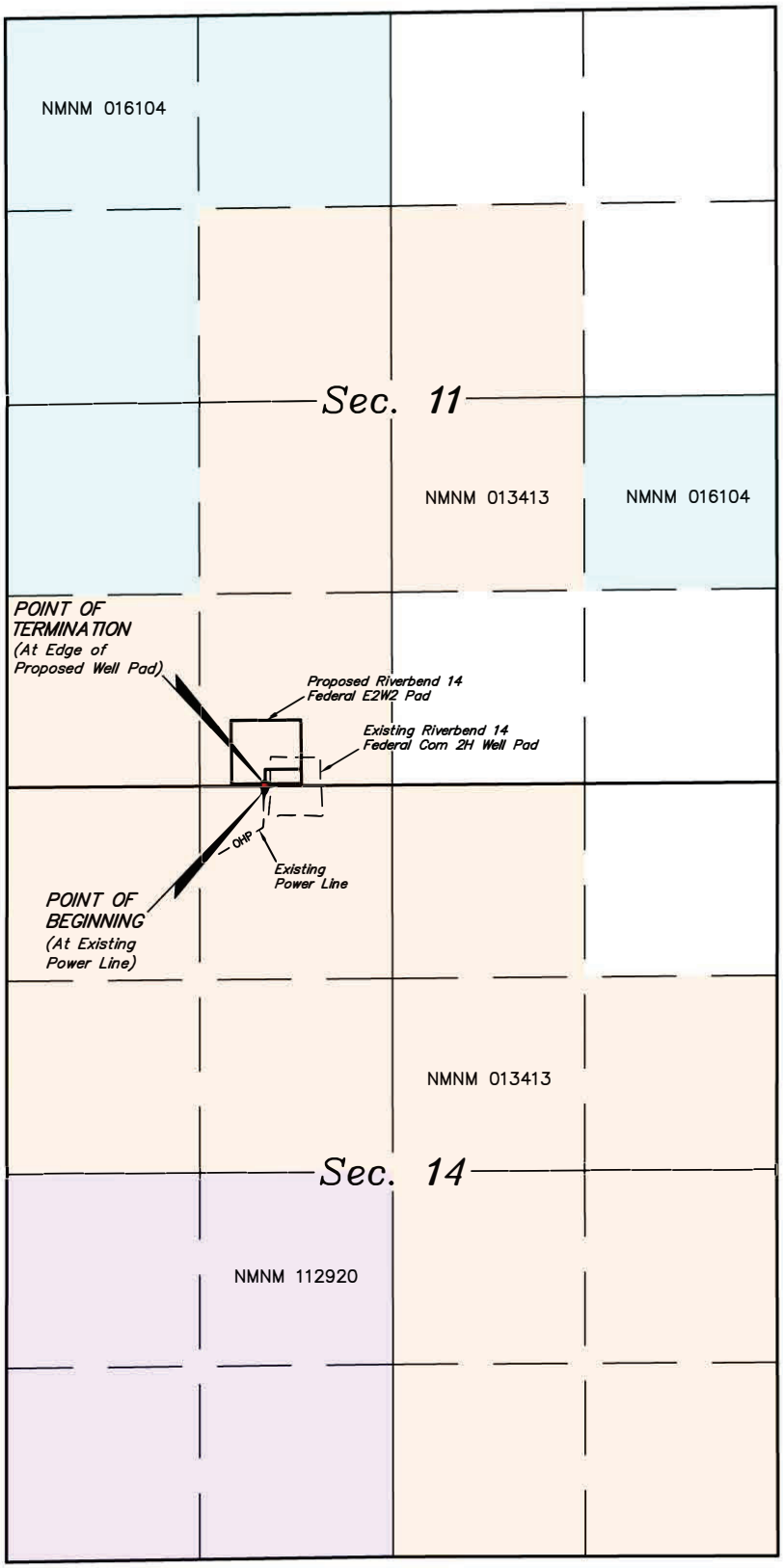
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-B		

SURFACE USE AREA

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE:
- Colored areas within section lines represent Federal oil & gas leases.

LEGEND:
- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

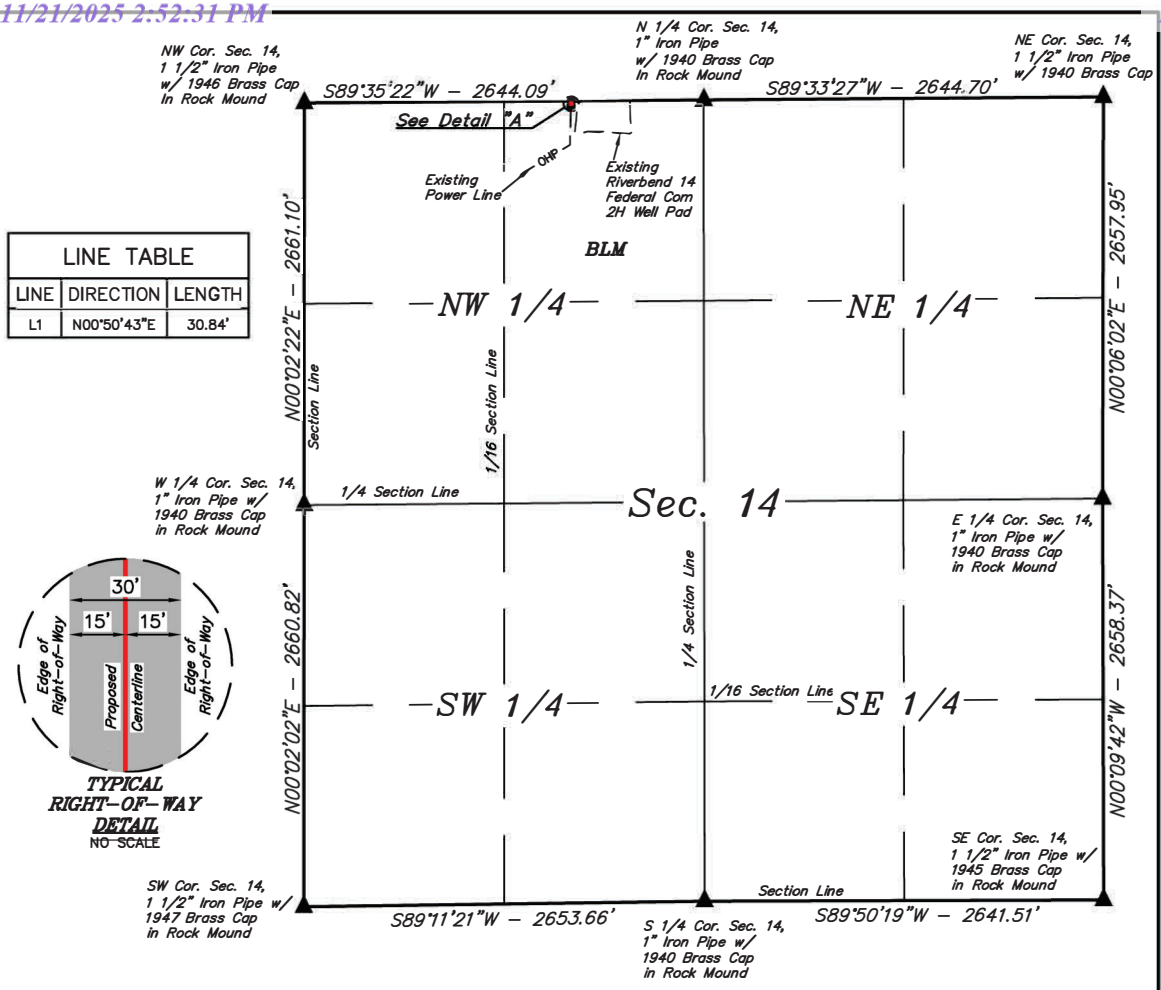
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CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTIONS 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	**SCALE**
DRAWN BY	L.T.T.	11-12-24	1" = 1000'

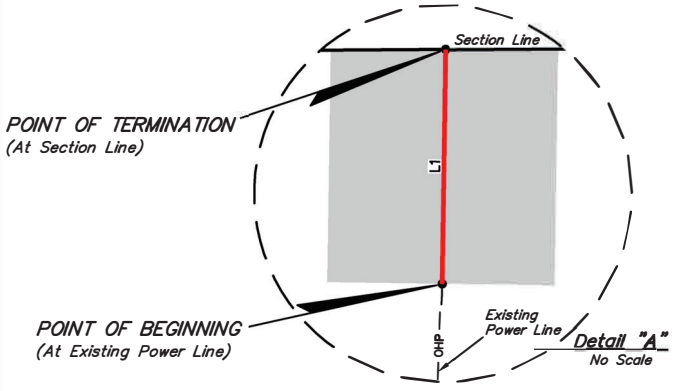
OVERALL POWER LINE



POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S87°34'46"W 879.10' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N00°50'43"E 30.84' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S89°35'22"W 877.88' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.021 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S87°34'46"W 879.10' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S89°35'22"W 877.88' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

CERTIFICATE

THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 11-12-24

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	30.84	1.87	0.021

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

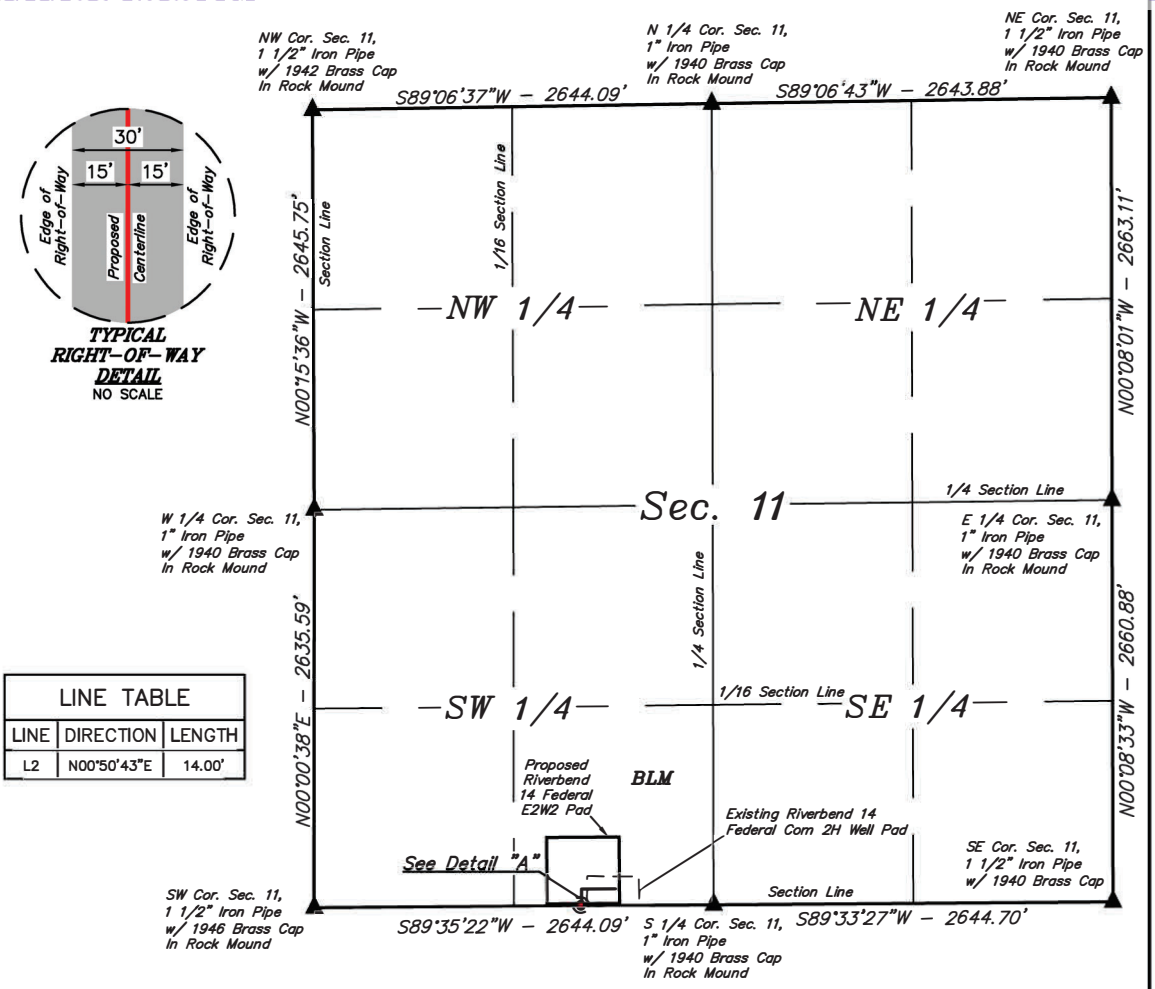
N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-A1		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

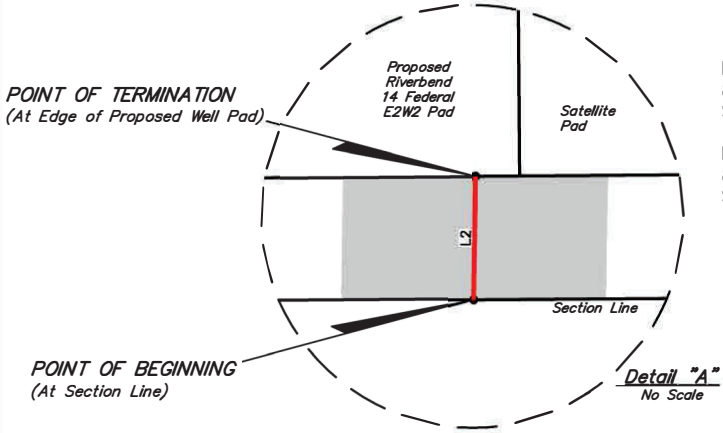


LINE TABLE		
LINE	DIRECTION	LENGTH
L2	N00°50'43"E	14.00'

POWER LINE RIGHT–OF–WAY DESCRIPTION

A 30' WIDE RIGHT–OF–WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 877.88' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 TO THE POINT OF BEGINNING; THENCE N00°50'43"E 14.00' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.010 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S89°35'22"W 877.88' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
11-12-24

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	14.00	0.85	0.010

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

Sheet 1 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

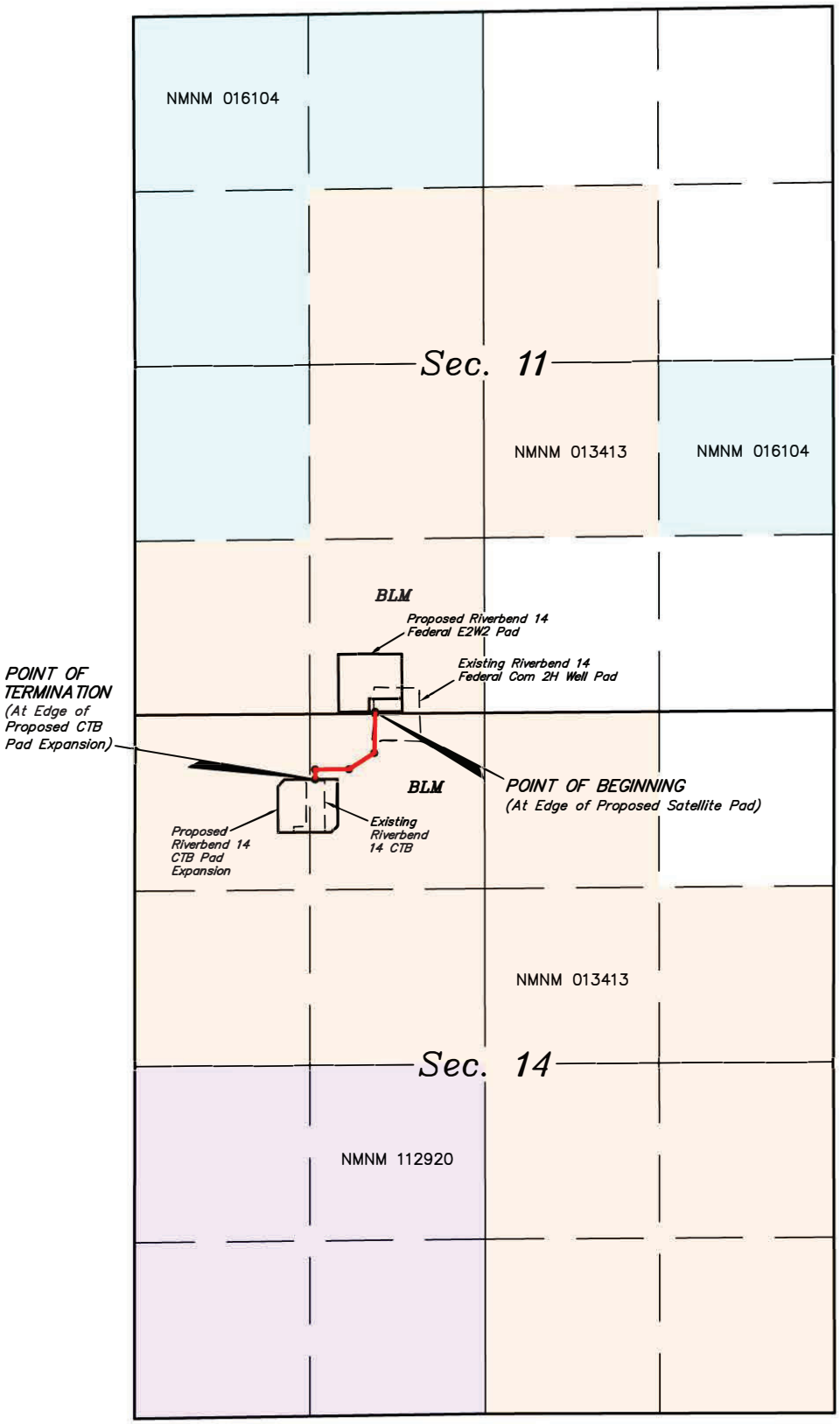
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-B1		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE:
- Colored areas within section lines represent Federal oil & gas leases.

LEGEND:
- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

N

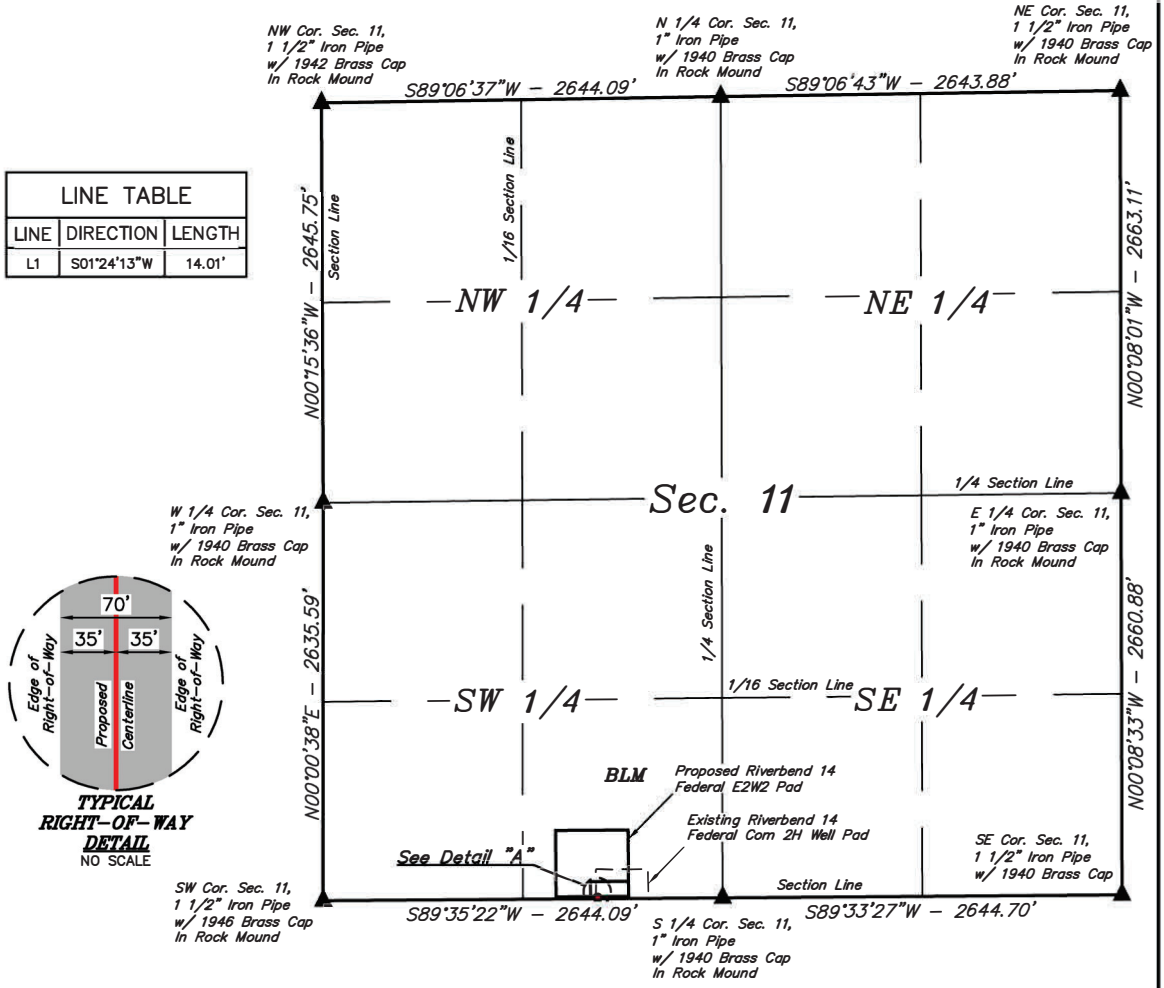
REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTIONS 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'

OVERALL BULK LINE



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S01°24'13"W	14.01'

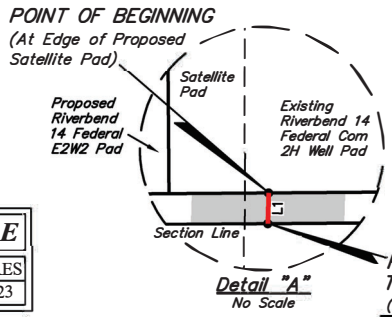
BULK LINE RIGHT-OF-WAY DESCRIPTION

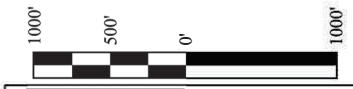
A 70' WIDE RIGHT-OF-WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE N89°26'26"W 827.06' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF BEGINNING; THENCE S01°24'13"W 14.01' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS S89°35'22"W 827.38' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.023 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS N89°26'26"W 827.06' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S89°35'22"W 827.38' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

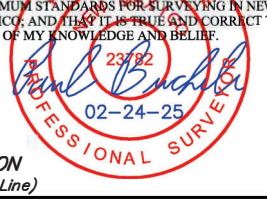




ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 11 (SW 1/4)	14.01	0.85	0.023

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

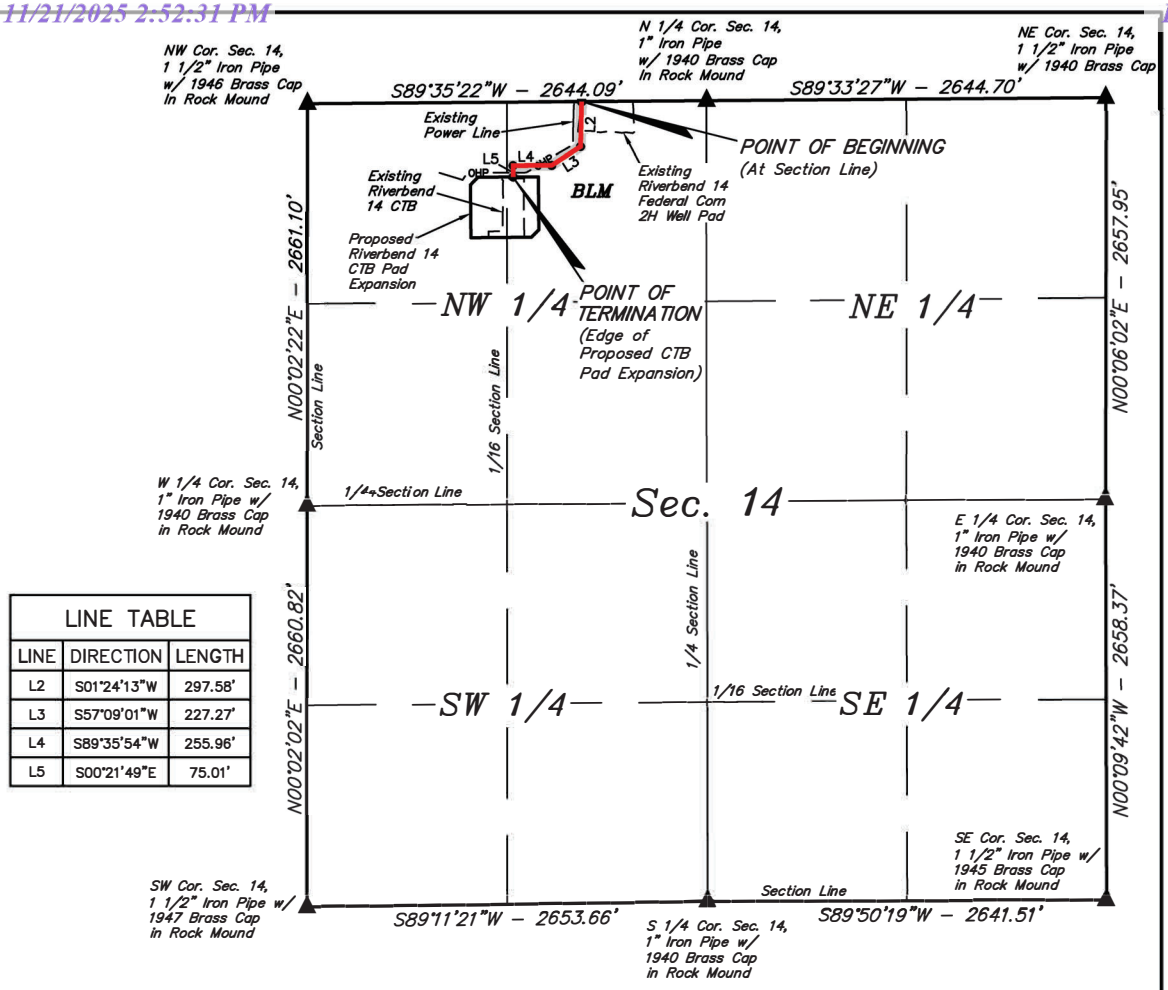
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-A1		
BULK LINE R-O-W			EXHIBIT G

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L2	S01°24'13"W	297.58'
L3	S57°09'01"W	227.27'
L4	S89°35'54"W	255.96'
L5	S00°21'49"E	75.01'

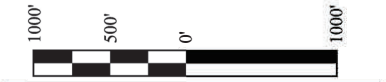
BULK LINE RIGHT–OF–WAY DESCRIPTION

A 70' WIDE RIGHT–OF–WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 827.38' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S01°24'13"W 297.58'; THENCE S57°09'01"W 227.27'; THENCE S89°35'54"W 255.96'; THENCE S00°21'49"E 75.01' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S68°32'37"W 1376.45' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 1.375 ACRES MORE OR LESS.

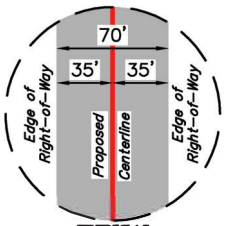
POINT OF BEGINNING BEARS S89°35'22"W 827.38' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S68°32'37"W 1376.45' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.



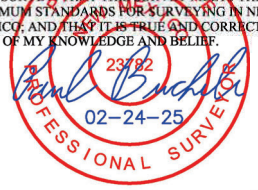
ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	855.82	51.87	1.375

▲ = SECTION CORNERS LOCATED.



TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REV: 2 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

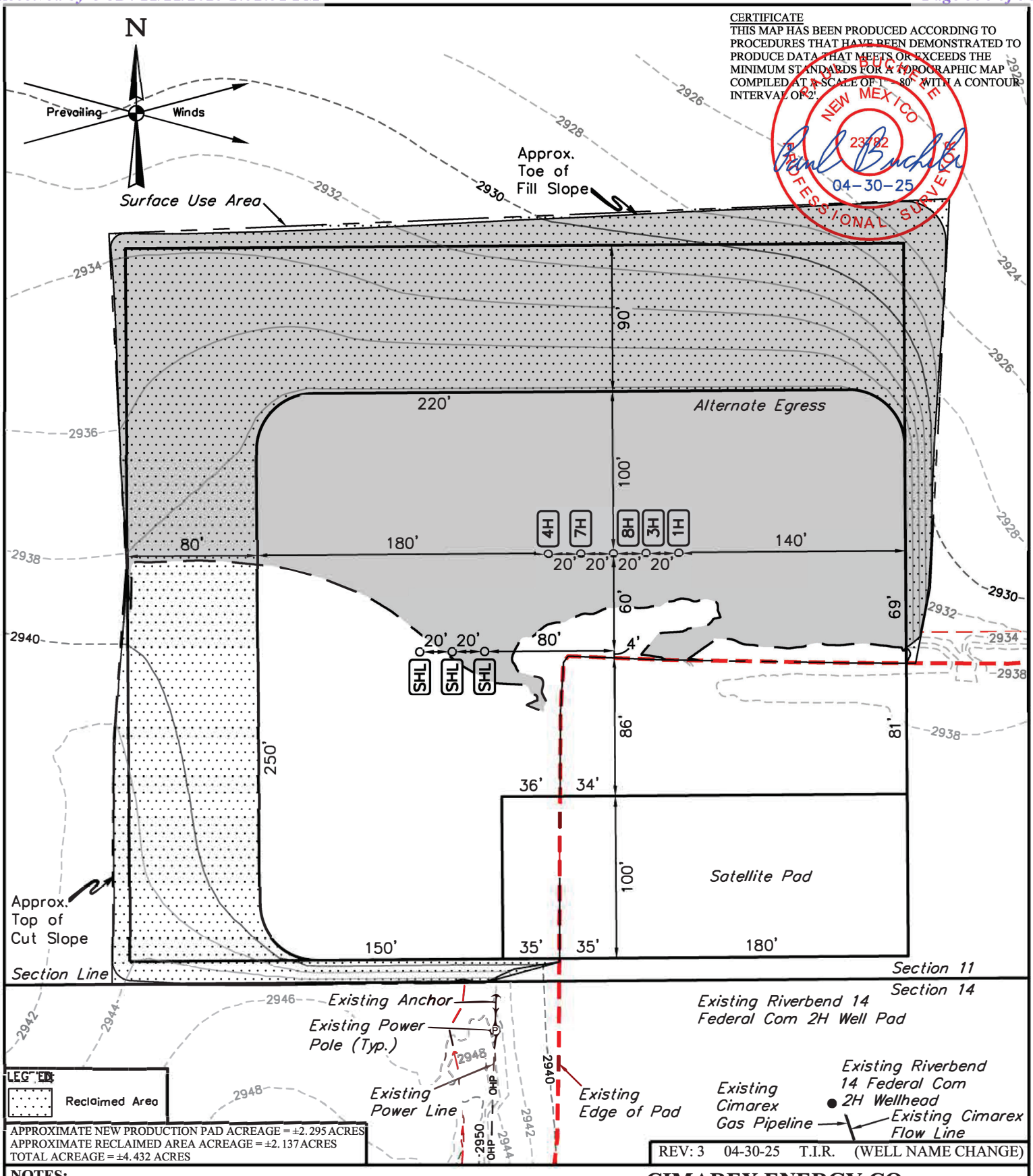
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-B1		
BULK LINE R-O-W			EXHIBIT G

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 Paul Buchheit 04-30-25 PROFESSIONAL SURVEYOR

APPROXIMATE NEW PRODUCTION PAD ACREAGE = ±2.295 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±2.137 ACRES
TOTAL ACREAGE = ±4.432 ACRES

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:
- Contours shown at 2' intervals.

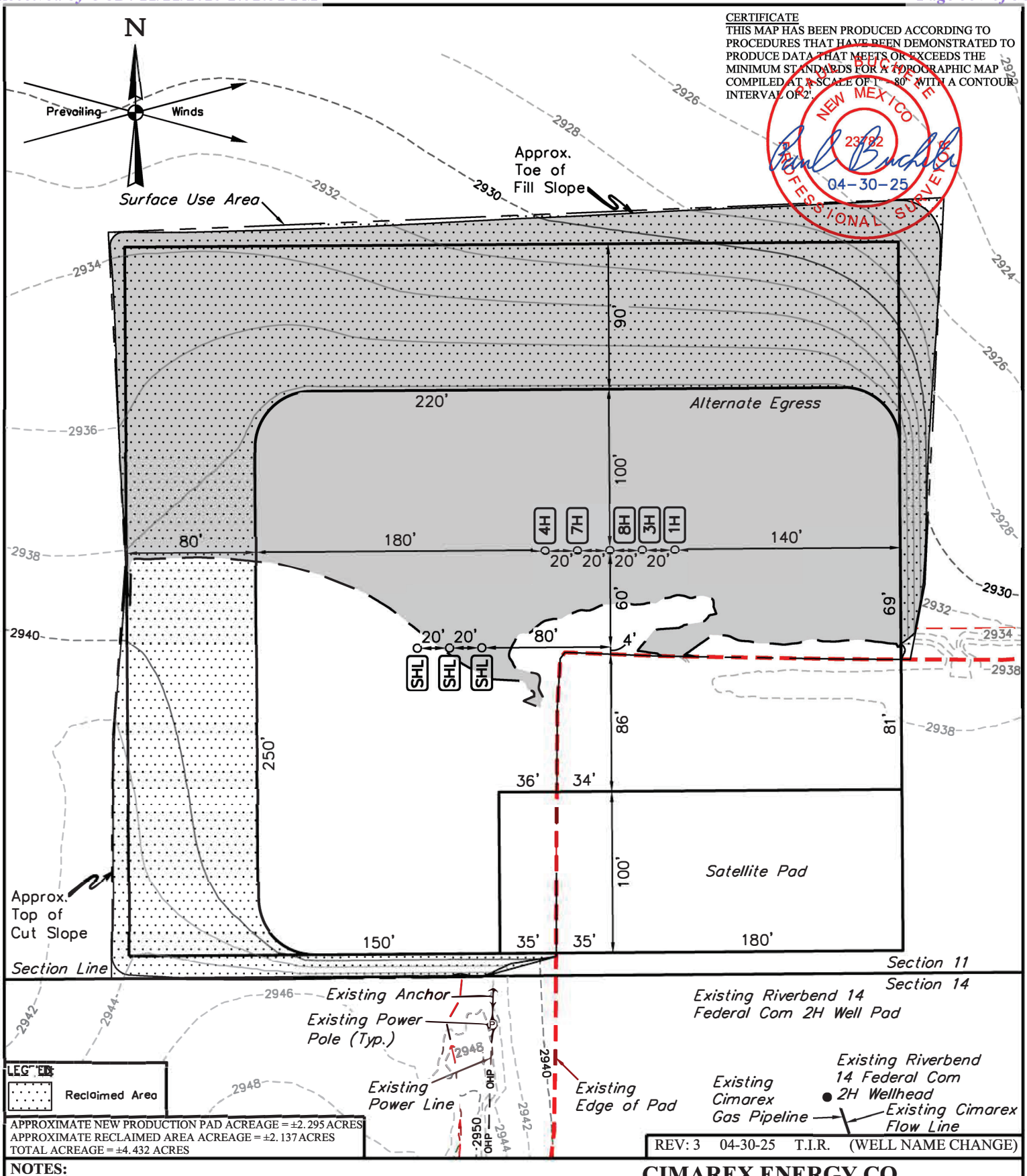
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H..	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'

RECLAMATION DIAGRAM **EXHIBIT P**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 Paul Buchheit 04-30-25 PROFESSIONAL SURVEYOR

LEGEND
Reclaimed Area

APPROXIMATE NEW PRODUCTION PAD ACREAGE = ±2.295 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±2.137 ACRES
TOTAL ACREAGE = ±4.432 ACRES

NOTES:
- Contours shown at 2' intervals.

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H..	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'

RECLAMATION DIAGRAM **EXHIBIT P**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

AFMSS

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

PWD Data Report
11/06/2025

APD ID: 10400105785 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Well Type: OIL 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):**

Other PWD Surface Owner Description:

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: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

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:**

Other PWD Surface Owner Description:

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):

Precipitated Solids Permit

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

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

State

Unlined Produced Water Pit Estimated

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

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):**

Other PWD Surface Owner Description:

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):**

Other PWD Surface Owner Description :

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:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

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

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

AFMSS

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

Bond Info Data

11/06/2025

APD ID: 10400105785 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 8H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: NMB001188

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:

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type: ☑ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
	53610	San Lorenzo; Bone Spring, North

Property Code	Property Name	Well Number
	RIVERBEND 14 FEDERAL COM	8H

OGRID No.	Operator Name	Ground Level Elevation
162683	CIMAREX ENERGY CO.OF COLORADO	2,935.3'

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 (NAD 83)	Longitude (NAD 83)	County
N	11	25S	28E		264 SOUTH	1,840 WEST	32.138125°	-104.060561°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	690 EAST	32.137194°	-104.051648°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	Infill well	Riverbend 14 Fed Com 4H	N	C and F

Order Numbers. Pending 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 (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,920 EAST	32.137163°	-104.055621°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,920 EAST	32.137163°	-104.055621°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	690 EAST	32.137194°	-104.051648°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
E2 of Sec. 14	☑ Horizontal ☐ Vertical	2935.3'

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my 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 or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore 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.

Crystal Denson 11/21/2025

Signature Date

Crystal Denson

Printed Name

crystal.denson@coterra.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from the 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.

PAUL BUCHELE NEW MEXICO 23782 04-30-25 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

23782 August 7, 2024

Certificate Number Date of Survey

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name	Well Number	Drawn By	Revised By
RIVERBEND 14 FEDERAL COM	8H	L.T.T. 11-12-24	REV: 2 T.I.R. 04-30-25 (UPDATE WELLBORE & WELL NAME)

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'17.25" (32.138125°)
LONGITUDE = -104°03'38.02" (-104.060561°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'16.81" (32.138002°)
LONGITUDE = -104°03'36.26" (-104.060072°)
STATE PLANE NAD 83 (N.M. EAST)
N: 414092.51' E: 625766.85'
STATE PLANE NAD 27 (N.M. EAST)
N: 414034.43' E: 584582.65'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°08'13.79" (32.137163°)
LONGITUDE = -104°03'20.23" (-104.055621°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°08'13.34" (32.137040°)
LONGITUDE = -104°03'18.47" (-104.055132°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413746.33' E: 627296.84'
STATE PLANE NAD 27 (N.M. EAST)
N: 413688.23' E: 586112.60'

NAD 83 (KOP 2)
LATITUDE = 32°07'29.34" (32.124818°)
LONGITUDE = -104°03'20.14" (-104.055594°)
NAD 27 (KOP 2)
LATITUDE = 32°07'28.90" (32.124695°)
LONGITUDE = -104°03'18.38" (-104.055106°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409255.48' E: 627316.63'
STATE PLANE NAD 27 (N.M. EAST)
N: 409197.47' E: 586132.29'

NAD 83 (NPZ 1)
LATITUDE = 32°07'24.75" (32.123541°)
LONGITUDE = -104°03'17.64" (-104.054900°)
NAD 27 (NPZ 1)
LATITUDE = 32°07'24.31" (32.123418°)
LONGITUDE = -104°03'15.88" (-104.054412°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408791.76' E: 627532.70'
STATE PLANE NAD 27 (N.M. EAST)
N: 408733.76' E: 586348.35'

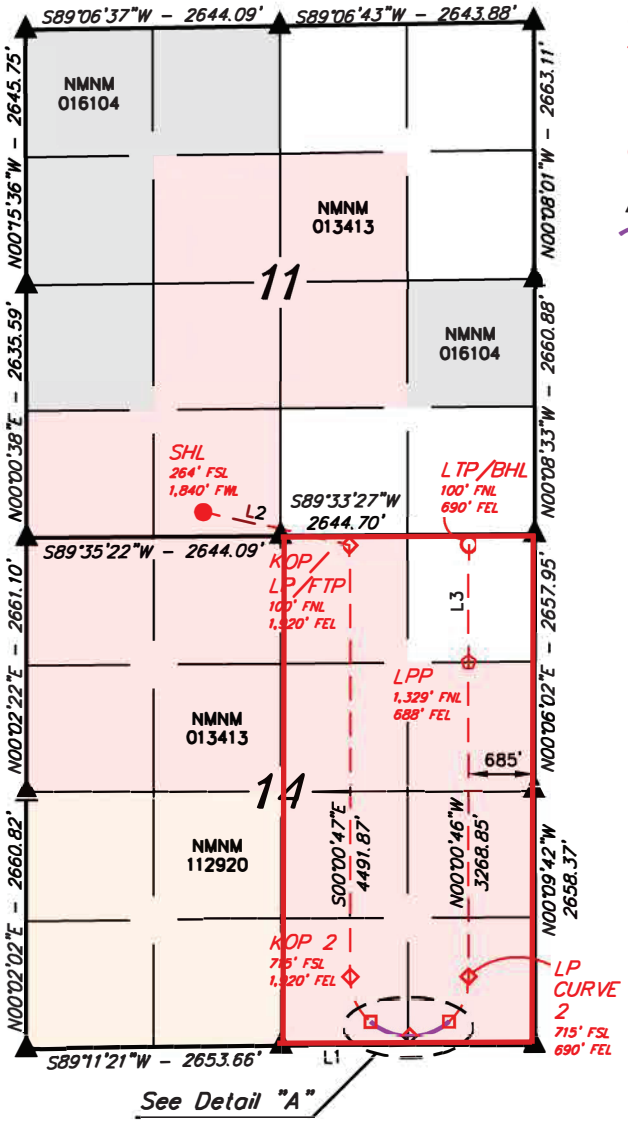
NAD 83 (PEAK CURVE 2)
LATITUDE = 32°07'23.29" (32.123135°)
LONGITUDE = -104°03'12.96" (-104.053599°)
NAD 27 (PEAK CURVE 2)
LATITUDE = 32°07'22.84" (32.123012°)
LONGITUDE = -104°03'11.20" (-104.053111°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408644.93' E: 627935.78'
STATE PLANE NAD 27 (N.M. EAST)
N: 408586.92' E: 586751.41'

NAD 83 (NPZ 2)
LATITUDE = 32°07'24.78" (32.123551°)
LONGITUDE = -104°03'08.29" (-104.052303°)
NAD 27 (NPZ 2)
LATITUDE = 32°07'24.34" (32.123428°)
LONGITUDE = -104°03'06.53" (-104.051815°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408797.38' E: 628336.76'
STATE PLANE NAD 27 (N.M. EAST)
N: 408739.37' E: 587152.39'

NAD 83 (LP CURVE 2)
LATITUDE = 32°07'29.40" (32.124833°)
LONGITUDE = -104°03'05.84" (-104.051622°)
NAD 27 (LP CURVE 2)
LATITUDE = 32°07'28.95" (32.124709°)
LONGITUDE = -104°03'04.08" (-104.051134°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409264.08' E: 628546.33'
STATE PLANE NAD 27 (N.M. EAST)
N: 409206.05' E: 587361.96'

NAD 83 (LPP)
LATITUDE = 32°08'01.74" (32.133816°)
LONGITUDE = -104°03'05.91" (-104.051641°)
NAD 27 (LPP)
LATITUDE = 32°08'01.30" (32.133693°)
LONGITUDE = -104°03'04.15" (-104.051152°)
STATE PLANE NAD 83 (N.M. EAST)
N: 412532.18' E: 628531.95'
STATE PLANE NAD 27 (N.M. EAST)
N: 412474.09' E: 587347.65'

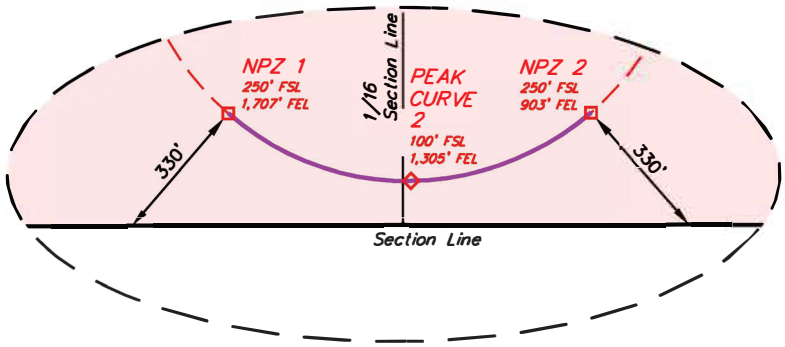
NAD 83 (LTP/BHL)
LATITUDE = 32°08'13.90" (32.137194°)
LONGITUDE = -104°03'05.93" (-104.051648°)
NAD 27 (LTP/BHL)
LATITUDE = 32°08'13.46" (32.137071°)
LONGITUDE = -104°03'04.17" (-104.051159°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413760.96' E: 628526.54'
STATE PLANE NAD 27 (N.M. EAST)
N: 413702.85' E: 587342.27'



● = SURFACE HOLE LOCATION
◇ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
□ = NPZ POINT
⬠ = LEASE PENETRATION POINT
○ = LAST TAKE POINT/BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
⌒ = NON-PERFORATION ZONE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°50'19"W	2641.51'
L2	S77°00'40"E	1569.01'
L3	N00°00'46"W	1229.06'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.



Detail "A"
No Scale



Sheet 2 of 2

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

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 528949
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 528949
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
cdenson	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/21/2025
cdenson	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/21/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/5/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/5/2025
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.	12/5/2025
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.	12/5/2025