



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

Application for Permit to Drill

APD Package Report

Date Printed: 12/19/2025 02:30 PM

APD ID: 10400105781	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: 7H

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: 10 file(s)
 - Blowout Prevention BOP Diagram Attachment: 2 file(s)
 - Casing Taperd String Specs: 4 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
 - 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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. NMNM13413 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. RIVERBEND 14 FEDERAL COM 7H 9. API Well No. 30-015-57605
2. Name of Operator CIMAREX ENERGY COMPANY OF COLORADO		10. Field and Pool, or Exploratory PURPLE SAGE/(WOLFCAMP) GAS 11. Sec., T. R. M. or Blk. and Survey or Area SEC 11/T25S/R28E/NMP
3a. Address 6001 DEAUVILLE BLVD STE 300N, MIDLAND, TX 79706	3b. Phone No. (include area code) (432) 620-1936	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESW / 264 FSL / 1820 FWL / LAT 32.138125 / LONG -104.060625 At proposed prod. zone NENE / 100 FNL / 335 FEL / LAT 32.137203 / LONG -104.050501		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 6 miles		
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	20. BLM/BIA Bond No. in file FED: NMB001188
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20 feet	19. Proposed Depth 9673 feet / 20608 feet	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2936 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 (Electronic Submission)	Name (Printed/Typed) CRYSTAL DENSON / Ph: (432) 620-1936	Date 07/30/2025
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 12/19/2025
Title 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.



(Continued on page 2)

*(Instructions on page 2)

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 well, 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 directionally 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 well 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 will 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 connects this information to a new 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SESW / 264 FSL / 1820 FWL / TWSP: 25S / RANGE: 28E / SECTION: 11 / LAT: 32.138125 / LONG: -104.060625 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 1329 FNL / 988 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.133809 / LONG: -104.05261 (TVD: 9673 feet, MD: 16284 feet)

PPP: NENE / 100 FNL / 1655 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.13717 / LONG: -104.054765 (TVD: 9673 feet, MD: 10358 feet)

BHL: NENE / 100 FNL / 335 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.137203 / LONG: -104.050501 (TVD: 9673 feet, MD: 20608 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

CONFIDENTIAL

Riverbend 14 FEDERAL COM 7H

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**

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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-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). 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 valves, 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 enclosure 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 enclosure fencing design, refer to BLM's Oil and Gas Gold Book, Enclosure 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

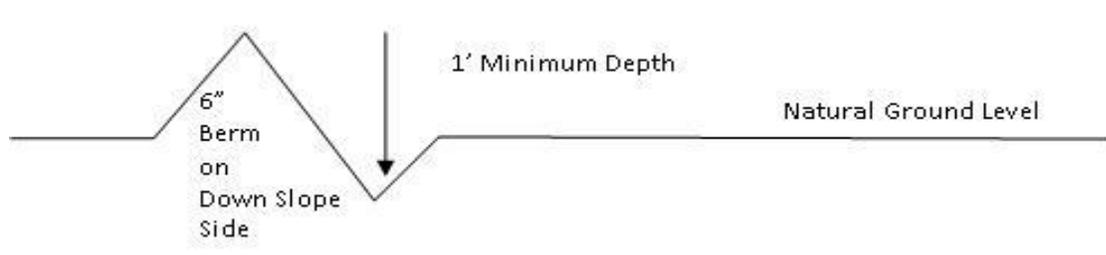
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill out-sloping and in-sloping, 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:

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

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

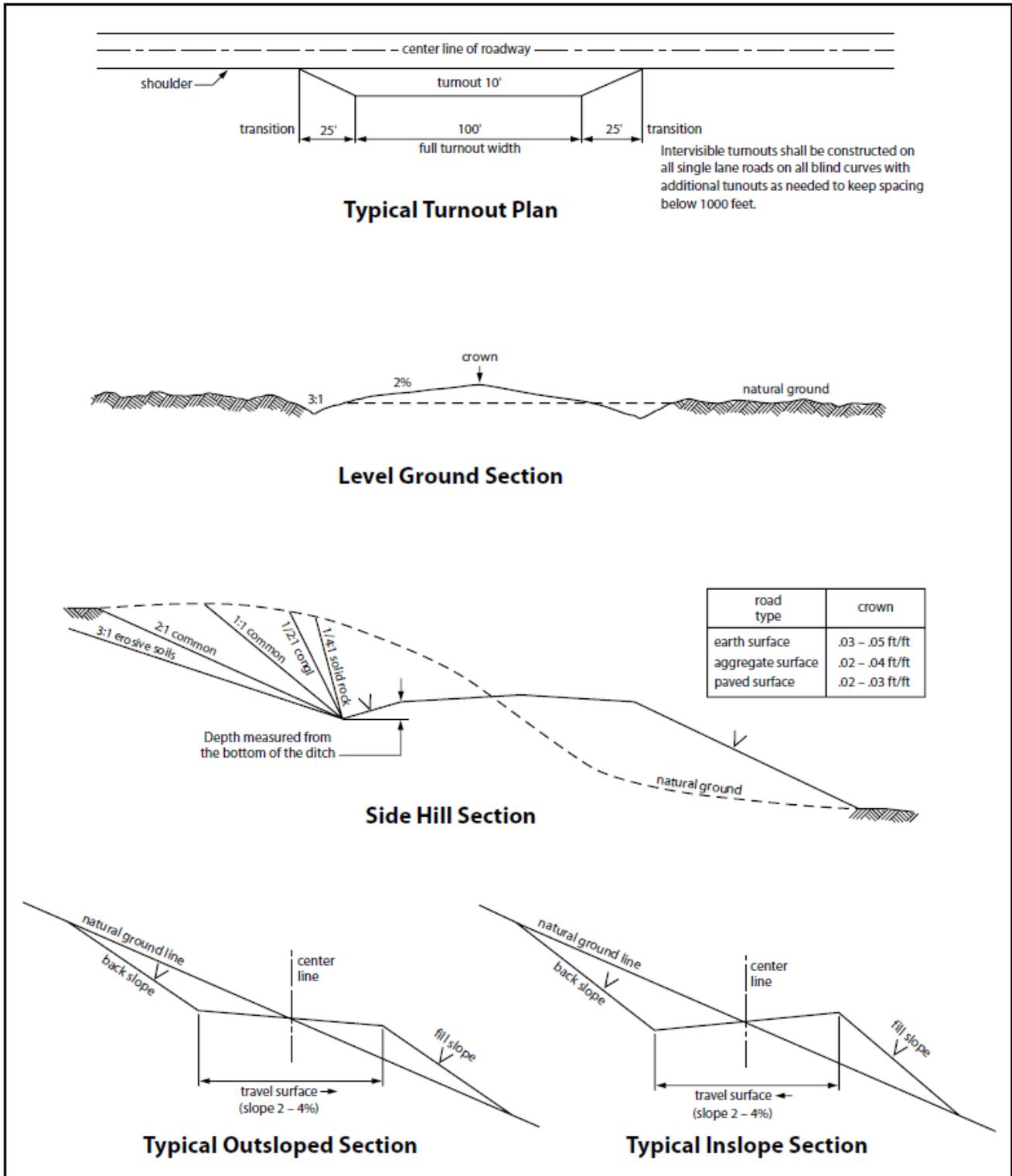


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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, siting 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/permittee 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:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass (<i>Setaria macrostachya</i>)	1.0
Green Sprangletop (<i>Leptochloa dubia</i>)	2.0
Sideoats Grama (<i>Bouteloua curtipendula</i>)	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:

<u>Species</u>	<u>lb/acre</u>
Alkali Sacaton (<i>Sporobolus airoides</i>)	1.5
DWS~ Four-wing saltbush (<i>Atriplex canescens</i>)	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:	Coterra Energy Operating Co
LOCATION:	Section 11, T.25 S., R.28 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Riverbend 14 Federal Com 7H
ATS/API ID:	ATS-25-2125
APD ID:	10400105781
Sundry ID:	N/a

COA

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

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 **10-3/4** 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 **14 3/4** 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.

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

2. The minimum required fill of cement behind the **7-5/8** 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 7-5/8 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 10-3/4 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.

Casing Clearance

Operator casing variance is approved for the utilization of 5-1/2 inch P-110 BTC **from** base of curve and a minimum of 500 feet or the minimum tie-back requirement above, whichever is greater into the previous casing shoe.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are less than 0.5 micron before cementing.

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. Acceptable Method of Cement Verifications:
 - a. Observing cement circulated to surface.
 - b. Cement bond log (CBL).
 - c. Temperature log within 8-10 hours after completing the cement job.
 - d. Echometer (if a second-stage bradenhead squeeze is being used).
5. 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.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. 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.
8. 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.
9. 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) 12/18/2025



Operator Certification Data Report

12/19/2025

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

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: 12/17/2025

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:



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

Application Data

12/19/2025

APD ID: 10400105781

Submission Date: 07/30/2025

Highlighted data reflects the most recent changes
[Show Final Text](#)

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400105781

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: 7H

Field/Pool or Exploratory? Field and Pool

Field Name: PURPLE SAGE

Pool Name: (WOLFCAMP) GAS

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

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: CONVENTIONAL GAS 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_7H_20250902081954.pdf

RIVERBEND_14_FEDERAL_E2W2_05_06_25_C_102_WELL_7H_20250912083820.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	1820	FWL	25S	28E	11	Aliquot SESW	32.138125	-104.060625	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 13413	2936			N
KOP Leg #1	100	FNL	1655	FEL	25S	28E	14	Aliquot NWNE	32.13717	-104.054765	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 13413	-6737	10358	9673	Y

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

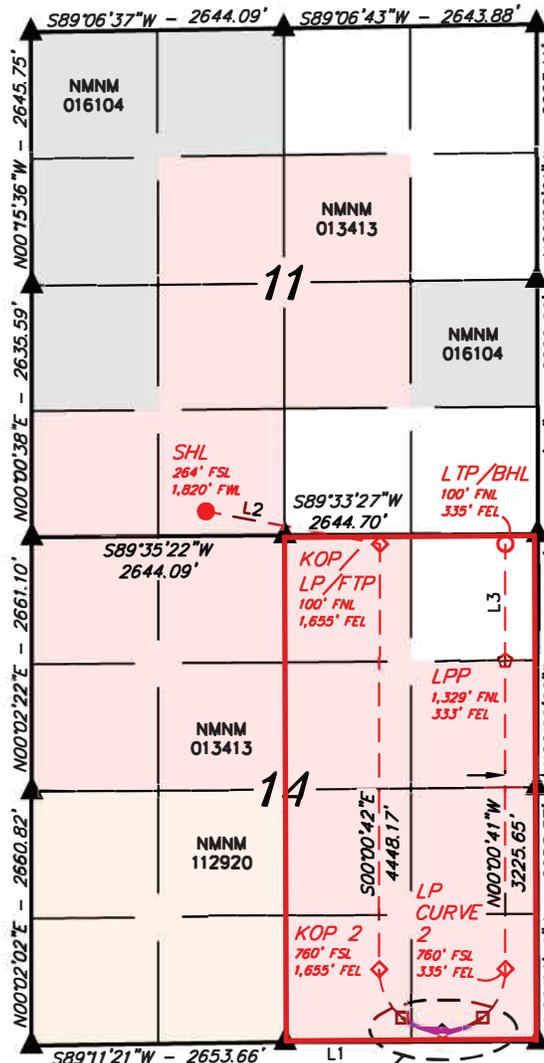
Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

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	1655	FEL	25S	28E	14	Aliquot NWNE	32.13717	-104.054765	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 13413	-6737	10358	9673	Y
PPP Leg #1-2	1329	FNL	988	FEL	25S	28E	14	Aliquot SENE	32.133809	-104.05261	EDD Y	NEW MEXICO	NEW MEXICO	F	FEE	-6737	16284	9673	Y
EXIT Leg #1	100	FNL	335	FEL	25S	28E	14	Aliquot NENE	32.137203	-104.050501	EDD Y	NEW MEXICO	NEW MEXICO	F	FEE	-6737	20608	9673	Y
BHL Leg #1	100	FNL	335	FEL	25S	28E	14	Aliquot NENE	32.137203	-104.050501	EDD Y	NEW MEXICO	NEW MEXICO	F	FEE	-6737	20608	9673	Y

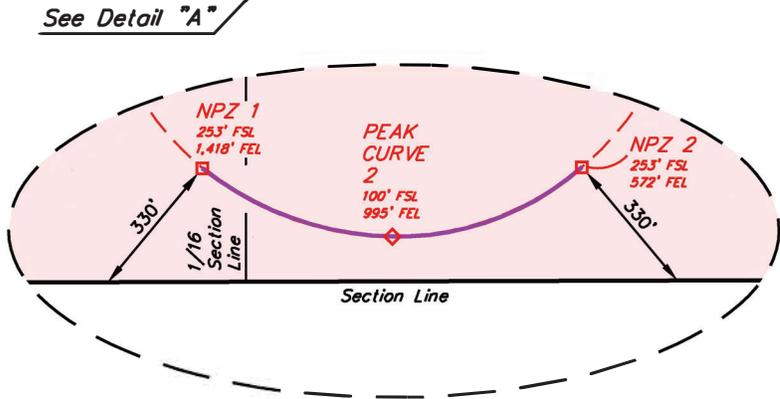
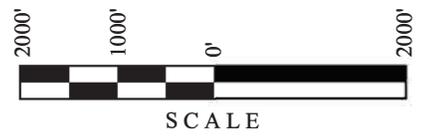
Property Name RIVERBEND 14 FEDERAL COM	Well Number 7H	Drawn By L. T. T. 12-27-24	Revised By REV: 1 T.I.R. 04-30-25 (UPDATE WELLBORE)
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NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°08'17.25" (32.138125°) LONGITUDE = -104°03'38.25" (-104.060625°)
NAD 27 (SURFACE HOLE LOCATION) LATITUDE = 32°08'16.81" (32.138002°) LONGITUDE = -104°03'36.49" (-104.060136°) STATE PLANE NAD 83 (N.M. EAST) N: 414092.29' E: 625746.85' STATE PLANE NAD 27 (N.M. EAST) N: 414034.20' E: 584562.65'
NAD 83 (KOP/LP/FTP) LATITUDE = 32°08'13.81" (32.137170°) LONGITUDE = -104°03'17.15" (-104.054765°)
NAD 27 (KOP/LP/FTP) LATITUDE = 32°08'13.37" (32.137047°) LONGITUDE = -104°03'15.39" (-104.054276°) STATE PLANE NAD 83 (N.M. EAST) N: 413749.48' E: 627561.78' STATE PLANE NAD 27 (N.M. EAST) N: 413691.38' E: 586377.54'
NAD 83 (KOP 2) LATITUDE = 32°07'29.80" (32.124945°) LONGITUDE = -104°03'17.06" (-104.054739°)
NAD 27 (KOP 2) LATITUDE = 32°07'29.36" (32.124821°) LONGITUDE = -104°03'15.30" (-104.054251°) STATE PLANE NAD 83 (N.M. EAST) N: 409302.32' E: 627581.26' STATE PLANE NAD 27 (N.M. EAST) N: 409244.30' E: 586396.92'
NAD 83 (NPZ 1) LATITUDE = 32°07'24.80" (32.123555°) LONGITUDE = -104°03'14.28" (-104.053966°)
NAD 27 (NPZ 1) LATITUDE = 32°07'24.35" (32.123432°) LONGITUDE = -104°03'12.52" (-104.053478°) STATE PLANE NAD 83 (N.M. EAST) N: 408797.43' E: 627821.80' STATE PLANE NAD 27 (N.M. EAST) N: 408739.42' E: 586637.43'
NAD 83 (PEAK CURVE 2) LATITUDE = 32°07'23.30" (32.123139°) LONGITUDE = -104°03'09.35" (-104.052598°)
NAD 27 (PEAK CURVE 2) LATITUDE = 32°07'22.86" (32.123016°) LONGITUDE = -104°03'07.60" (-104.052110°) STATE PLANE NAD 83 (N.M. EAST) N: 408647.09' E: 628245.72' STATE PLANE NAD 27 (N.M. EAST) N: 408589.08' E: 587061.34'
NAD 83 (NPZ 2) LATITUDE = 32°07'24.83" (32.123565°) LONGITUDE = -104°03'04.44" (-104.051234°)
NAD 27 (NPZ 2) LATITUDE = 32°07'24.39" (32.123442°) LONGITUDE = -104°03'02.69" (-104.050746°) STATE PLANE NAD 83 (N.M. EAST) N: 408803.35' E: 628667.50' STATE PLANE NAD 27 (N.M. EAST) N: 408745.33' E: 587483.12'
NAD 83 (LP CURVE 2) LATITUDE = 32°07'29.86" (32.124960°) LONGITUDE = -104°03'01.71" (-104.050476°)
NAD 27 (LP CURVE 2) LATITUDE = 32°07'29.41" (32.124837°) LONGITUDE = -104°02'59.96" (-104.049988°) STATE PLANE NAD 83 (N.M. EAST) N: 409311.55' E: 628900.95' STATE PLANE NAD 27 (N.M. EAST) N: 409253.51' E: 587716.57'
NAD 83 (LPP) LATITUDE = 32°08'01.77" (32.133826°) LONGITUDE = -104°03'01.78" (-104.050494°)
NAD 27 (LPP) LATITUDE = 32°08'01.33" (32.133703°) LONGITUDE = -104°03'00.02" (-104.050006°) STATE PLANE NAD 83 (N.M. EAST) N: 412536.47' E: 628886.84' STATE PLANE NAD 27 (N.M. EAST) N: 412478.37' E: 587702.53'
NAD 83 (LTP/BHL) LATITUDE = 32°08'13.93" (32.137203°) LONGITUDE = -104°03'01.80" (-104.050501°)
NAD 27 (LTP/BHL) LATITUDE = 32°08'13.49" (32.137080°) LONGITUDE = -104°03'00.05" (-104.050013°) STATE PLANE NAD 83 (N.M. EAST) N: 413765.19' E: 628881.46' STATE PLANE NAD 27 (N.M. EAST) N: 413707.07' E: 587697.19'



- = 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	S79°03'53"E	1847.43'
L3	N00°00'41"W	1229.00'



Detail "A"
No Scale

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.



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

Drilling Plan Data Report

12/19/2025

APD ID: 10400105781

Submission Date: 07/30/2025

Highlighted data reflects the most recent changes

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
17044536	RUSTLER	0	1091	1091	ANHYDRITE	USEABLE WATER	N
17044537	TOP SALT	-1570	1570	1570	ANHYDRITE, SALT	NONE	N
17044538	LAMAR	-2362	2362	2362	SANDSTONE	NONE	N
17044535	BELL CANYON	-2550	2550	2550	SANDSTONE	NONE	N
17044539	CHERRY CANYON	-3425	3425	3425	SANDSTONE	NONE	N
17044540	BRUSHY CANYON	-4727	4727	4727	SANDSTONE	NATURAL GAS, OIL	N
17044541	LOWER BRUSHY CANYON 8A	-5670	5670	5670	SANDSTONE	NATURAL GAS, OIL	N
17044542	BONE SPRING LIME	-6334	6334	6334	LIMESTONE	NATURAL GAS, OIL	N
17044543	BONE SPRING 1ST	-7260	7260	7260	SANDSTONE	NATURAL GAS, OIL	N
17044544	BONE SPRING 2ND	-7944	7944	7944	SANDSTONE	NATURAL GAS, OIL	N
17044545	BONE SPRING 3RD	-8304	8304	8304	SANDSTONE, SHALE	NATURAL GAS, OIL	N
17044533	BONE SPRING 3RD	-9156	9156	9156	SANDSTONE	NATURAL GAS, OIL	N
17044534	WOLFCAMP	-9518	9518	9518	SHALE	NATURAL GAS, OIL	N
17044546		0					N

Section 2 - Blowout Prevention

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

Pressure Rating (PSI): 10M

Rating Depth: 20608

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:

- CHOKE_HOSE_M15486_20250728164226.pdf
- NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250728164224.pdf
- 10M_BOPE_BLM_SUBMISSION_REV.0_20250728164226.pdf
- COTERRA_10M_MBU_3T_CFL_10.34_X_7.58_X_5.5_HBE965DQ.1_20250728164228.pdf
- COTERRA_10K_PROD_TREE_20250728164228.pdf
- CHOKE_HOSE_M15486_20250912154800.pdf
- NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250912154759.pdf
- 10M_BOPE_BLM_SUBMISSION_REV.0_20250912154800.pdf
- COTERRA_10K_PROD_TREE_20250912154800.pdf
- COTERRA_10M_MBU_3T_CFL_10.34_X_7.58_X_5.5_HBE965DQ.1_20250912154800.pdf

BOP Diagram Attachment:

- 10M_BOP_DIAGRAM_20250728164201.pdf
- 10M_BOP_DIAGRAM_20250912154809.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	14.75	10.75	NEW	API	N	0	1050	0	1050	2936	1886	1050	J-55	40.5	BUTT	3.47	6.88	BUOY	14.75	BUOY	14.75

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

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	PRODUCTION	6.75	5.5	NEW	API	Y	0	9309	0	9309	2935	-6373	9309	P-110	23	BUTT	2.5	2.13	BUOY	4.16	BUOY	4.16
3	INTERMEDIATE	9.875	7.625	NEW	API	N	0	10058	0	9633	2935	-6697	10058	L-80	29.7	BUTT	3.01	1.45	BUOY	2.32	BUOY	2.32
4	PRODUCTION	6.75	5.0	NEW	API	Y	9309	20608	9309	9673	-6373	-6737	11299	P-110	18	BUTT	2.23	2.26	BUOY	88.52	BUOY	88.52

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7H_Casing_Assumptions_20251021170600.pdf

Casing ID: 2 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Spec_Sheet_for_Tapered_Prod_5.5_23__P110RY_20250730083611.pdf

Spec_Sheet_for_Tapered_Prod_5.5_23__P110RY_20250916090030.pdf

Casing Design Assumptions and Worksheet(s):

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

Casing Attachments

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Spec_Sheet_for_Tapered_Prod_5_18__P110RY_20250916135337.pdf

Spec_Sheet_for_Tapered_Prod_5_18__P110RY_20250916135343.pdf

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
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0
PRODUCTION	Tail		0	2060 8	1464	1.3	14.2	1903	25	50:50 Poz H	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

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											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
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0

SURFACE	Lead		0	750	408	1.72	13.5	701	45	Class C	Bentonite
SURFACE	Tail		750	1050	109	1.34	14.8	146	45	Class C	LCM
INTERMEDIATE	Lead		0	9058	777	3.64	10.3	2828	49	Tuned Light	LCM
INTERMEDIATE	Tail		9058	10058	198	1.36	14.8	269	49	Class C	Retarder

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

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

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	1005 8	OTHER : Brine Diesel Emulsion	9	9.5							
1005 8	2060 8	OIL-BASED MUD	11.5	12							

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

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6035

Anticipated Surface Pressure: 3906

Anticipated Bottom Hole Temperature(F): 168

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_PLAN_REV.0_20250728165811.pdf

H2S_PLAN_REV.0_20250912083925.pdf

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

7H_Drilling_Plan_New_Mexico_20251021170756.pdf
WELL_CONTROL_PLAN_REV.0_20251021170733.pdf
Riverbend_14_Federal_Com_7H__Plan_4_20251217131034.pdf
Riverbend_14_Federal_Com_7H__Plan_4_AC_20251217131034.pdf
Riverbend_14_Federal_Com_7H_Plan_4_20251217131034.pdf
Riverbend_14_Federal_Com_7H__Plan_4_Plot_20251217131034.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Riverbend_14_7H_Natural_Gas_Plan_Cimarex_20250729090045.pdf
RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250729090103.pdf
RIVERBEND_14_FEDERAL_E2W2_rig_layout_plat_20250730084123.pdf
Riverbend_14_7H_Natural_Gas_Plan_Cimarex_20250912084016.pdf
RIVERBEND_14_FEDERAL_E2W2_rig_layout_plat_20250912084031.pdf
RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250912084032.pdf

Other Variance request(s)?: Y

Other Variance attachment:

NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250728165954.pdf
CHOKE_HOSE_M15486_20250728165955.pdf
NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250912084048.pdf
CHOKE_HOSE_M15486_20250912084048.pdf



CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B

No: 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 3 rd edition
Temperature Range	-29℃ ~+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3 rd edition
Size and Lengths	In accordance with API Spec 16C 3 rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3 rd edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21 st edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3 rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3 rd edition
product Marking	In accordance with API Spec 16C 3 rd edition

Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition				
Remarks	16C-0403 				

Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

No: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd 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

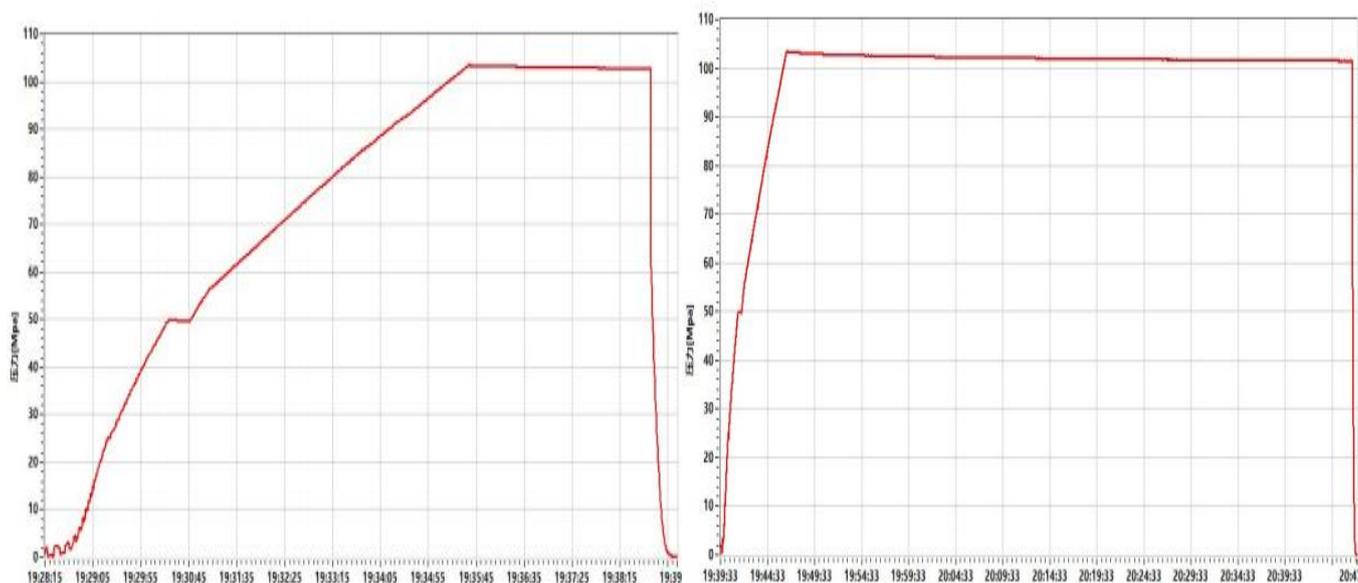
Rate of length change

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 3 rd edition		16C-0403	
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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CERTIFICATE OF CONFORMANCE

No: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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

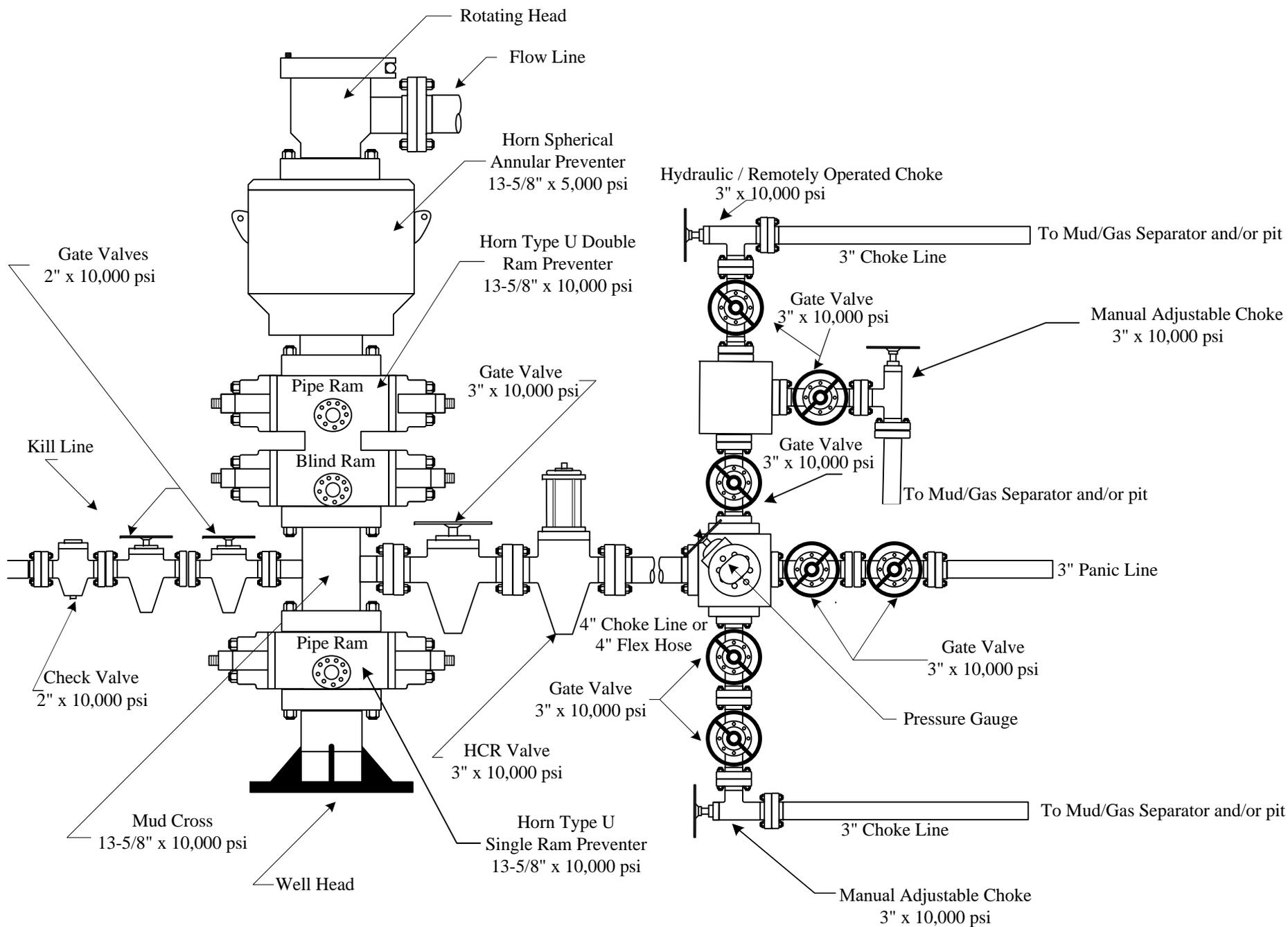
Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, 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.

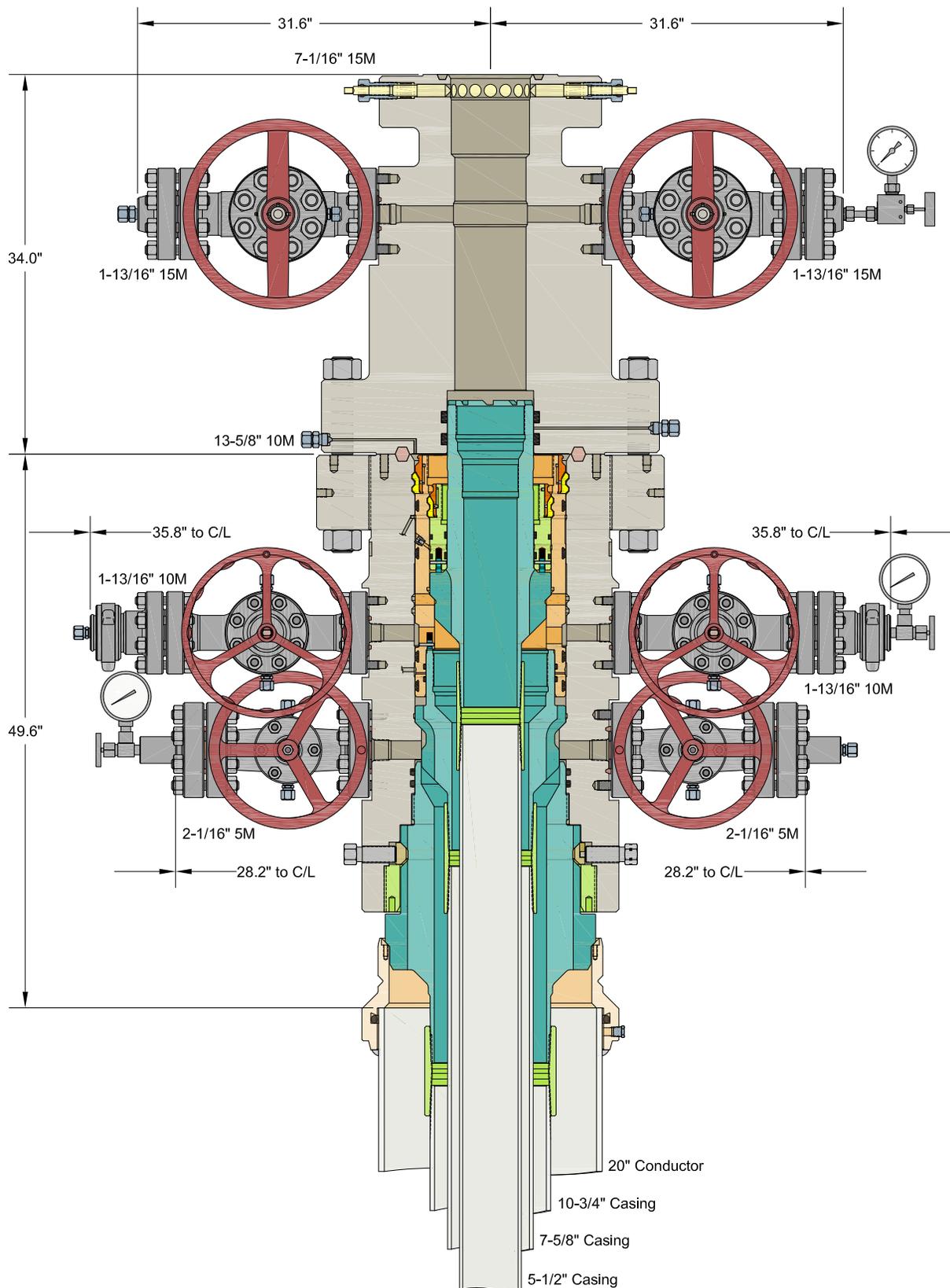
Variance Request #3: Omit the DV Tool from the Intermediate Casing

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.





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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

COTERRA ENERGY INC
HOBBS, NM

20" x 10-3/4" x 7-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO-SF Wellhead
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And 7-5/8" & 5-1/2" Mandrel Casing Hangers

DRAWN	VJK	07JUL23
APPRV		
DRAWING NO.	HBE0000965	



Cactus

Quotation

Quote Number : HBE0000965

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

Date: 07/07/2023
Valid For 30 Days

Page 1 of 8

Bill To: 7035

COTERRA ENERGY INC
PO BOX 4544
Attn: GULF COAST OFFICE
HOUSTON TX 77210
US

Ship To: 0

COTERRA ENERGY INC
PO BOX 4544
Attn: GULF COAST OFFICE
HOUSTON TX 77210
US

	Quantity	Price	Ext Price
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COTERRA ENERGY INC
DAVID SHAW

HOBBS, NM

MBU-3T-CFL-R SAFEDRILL® WELLHEAD SYSTEM
20" X 10-3/4" X 7-5/8" X 5-1/2"

QUOTATION SUMMARY:

- MBU-3T-CFL ASSEMBLY - \$29,839.64
- CASING HANGERS & PACKOFFS - \$12,581.24
- TUBING HEAD ASSEMBLY - \$19,367.17

CACTUS CONTACT:
RILEY STAFFORD
OFFICE: 405.708.7217
MOBILE: 405.445.2222
EMAIL: riley.stafford@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 PRO RATA FREIGHT AND OTHER APPLICABLE MILEAGE AND SERVICE CHARGES THAT MAY BE CHARGED AT TIME OF INVOICING.



Cactus

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Quote Number : HBE0000965

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

Date: 07/07/2023
 Valid For 30 Days

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		Quantity	Price	Ext Price
MBU-3T-CFL ASSEMBLY				
1	122079P2 HSG,CW,MBU-3T-CFL-R-DBLO-SF,13-3/8,13-5/8 10M,W/TWO 1-13/16 10M FP UPR & TWO 2-1/16 5M FP LWR,W/O 13-5/8 10M THD FLG,6A-PU-AA-2-2	1.00	12,026.00	12,026.00
2	126808P2 HSG,CW,MBU-3T-CFL-R-DBLO-SF,13-3/8,13-5/8 10M,W/TWO 1-13/16 10M FP UPR & TWO 2-1/16 5M FP LWR,W/O 13-5/8 10M THD FLG,TEMP PU,MATL EE,PSL2,PR2	0.00	12,168.80	0.00
3	110578 FLG,THD,13-5/8 10M W/21.750-2 STUB ACME-2G L.H. BOX THD,31.00 OD,4130 75K & I/T @ -75 DEG F	1.00	2,590.00	2,590.00
4	120455 LANDING RING,CW,CTF/MBU-T/3T,20 SOW X 20 SN X 18.13 ID,750K MAX LOAD CAPACITY	1.00	2,789.92	2,789.92
5	130791 CSGHGR,CW,MBU-3T-CFL-R,13-3/8,10-3/4 (40.5#) BC PIN BTM X 14.000-2 STUB ACME-2G LEFT HAND PIN TOP,10.040 MIN BORE,4140 110K,TEMP U,MATL AA,PSL2,PR2 NOTE: ACCEPTABLE FOR USE WITH 10-3/4 (45.5#) BC J/K-55 CASING	1.00	3,990.00	3,990.00
6	133772 VLV,AOZE,GEN,M-EXP-FB,2-1/16 3/5M FE DD (6A LU DD PSL2 PR1) QPQ TRIM & 4130 STEM	2.00	950.00	1,900.00
7	200002 FLG,COMP,CW,2-1/16 5M X 2 LP,6A-KU-EE-1	2.00	120.00	240.00
8	BP2T BULL PLUG,CW,2 LP X 1/2 NPT,API 6A DD	2.00	42.48	84.96
9	100048 FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING	1.00	59.74	59.74
10	R24 RING GASKET,R24,2-1/16 3/5M	4.00	8.82	35.28
11	780067-20E1 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	16.00	14.70	235.20
12	107412MV VLV,CW,SB100,1-13/16 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)	2.00	2,017.00	4,034.00
13	122007 ADPT,CW,CFH,1-13/16 10M X 2 FIG 1502 X 1/2 NPT,NACE SVC,TEMP PU, PSL2	2.00	685.00	1,370.00
14	100048 FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING	1.00	59.74	59.74
15	BX151 RING GASKET,BX151,1-13/16 10/15/20M	4.00	12.77	51.08



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 Hobbs NM 88240
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Date: 07/07/2023
 Valid For 30 Days

Page 3 of 8

		Quantity	Price	Ext Price
16	780080-20E1 STUD,ALL-THD W/2 HVY HEX NUTS,BLK,3/4-10UNC X 5-1/2,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	16.00	9.13	146.08
17	NVA NEEDLE VALVE,MFA,1/2 10M	2.00	55.58	111.16
18	PG5M PRESSURE GAUGE,5M,4-1/2 FACE,LIQUID FILLED,1/2 NPT	1.00	58.24	58.24
19	PG10M PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT	1.00	58.24	58.24
20	132804 RISER ADPT,CW,LRA,20.12 DBLO X 20 SOW TOP X 19.5 ID,8.5 LG,W/8 1-8 UNC-2B TAP HOLES,5.00 DEEP PKT W/1/2 ORINGS & 1/2 NPT TEST PORT,300 PSI MAX WP,A/F 20.12 LANDING RING	0.00	8,024.00	0.00
NOTE: THE AFOREMENTIONED ITEM IS A ONE TIME CHARGE PER RIG; PRICE NOT INCLUDED IN THE TOTAL.				29,839.64

CASING HANGERS & PACKOFFS

21	130916 CSGHGR,CW,MBU-3T-LWR-TP8,FLUTED,13-5/8 X 7-5/8 (29.7#) BC PIN BTM X 10.250-4 STUB ACME-2G RIGHT HAND BOX TOP,W/11-1/2 OD NECK,4140 110K,TEMP U,MATL AA,PSL2,PR2	1.00	2,075.00	2,075.00
22	130570 PACKOFF,CW,MBU-3T,MANDREL,13-5/8 NESTED X 11,W/11.250-4 STUB ACME-2G LH BOX TOP W/RUPTURE DISK & DEEPER GALLERY,4140 110K,STD SVC,NON-NACE	1.00	4,006.24	4,006.24
23	137978 CSGHGR,CW,MBU-3T-TP8-UPR,SN,7-5/8,FLUTED,11 NESTED X 5-1/2 (23#) BK-HT PIN BTM X 6.125-4 STUB ACME-2G RIGHT HAND BOX TOP & 5 HBPV THD,SPEC FOR ROTATING CASING STRING,4140 125K,TEMP U,MATL AA,PSL3,PR2	1.00	4,550.00	4,550.00
24	131863 RUN TOOL,CW,CSGHGR,TP8,6.125-4 STUB ACME-2G RIGHT HAND PIN BTM X 5-1/2 (23#) BK-HT BOX TOP,W/4.654 MIN BORE & MAX LOAD CAPACITY 580K,MAX TORQUE 33000 FT-LBS,SPEC FOR ROTATING CASING STRING,4140 125K	0.00	5,728.80	0.00
NOTE:MAX CASING CONNECTION TORQUE PER THREADERS SPEC				
25	115867 PACKOFF,CW,CTF-MBU-3T,11,A/F 7.75 SEAL PREP,W/8.750-4 STUB ACME-2G LH BOX TOP,A/F LANDING ON 45 DEG SHOULDER ON HANGER,4130 80K,NACE SVC,PSL2	1.00	1,950.00	1,950.00
				12,581.24

RENTAL TOOLS

26	AR4 3T-CFL DT 10-3/4 X 7-5/8 X 5-1/2 MAN	0.00	2,250.00	0.00
MBU-3T-R RENTAL TOOLS = \$2,250.00 PER WELL FOR THE FIRST 45 DAYS; \$195.00 PER DAY THEREAFTER				
RENTAL TOOLS INCLUDE THE FOLLOWING ITEMS:				
PN 119126: LIFT RING,CSGHGR,CFL-R,W/14.000-2 STUB ACME-2G LEFT HAND THDS,4140 110K				
PN 121275: RUN TOOL,CW,CSGHGR,MBU-3T-CFL-R,10-3/4 BC BOX TOP X 14.000-2 STUB ACME-2G LH BOX LANDING				



Cactus

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	Quantity	Price	Ext Price
THD,10.00 MIN BORE			
PN 118178: TORQUE COLLAR,CW,CSGHGR,MBU-3T-CFL-R,F/16 NECK,4140 110K			
PN 104467: COMB TEST PLUG/RET TOOL,CW,13-5/8 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS & SPRING LOADED DOGS			
PN 122539: WBUSH,CW,MBU-3T,LWR,13-5/8 X 10. 00 ID X 27.0 LG,W/3/8 UPR ORING & W/O 2.38 GROOVE			
PN 121602: RUN TOOL,CW,CSGHGR,TP4,13-5/8 X 7-5/8 BC BOX TOP,10.250-4 STUB ACME-2G RIGHT HAND PIN BTM,MAX LOAD CAPACITY 1000K,MAX TORQUE 18000FT-LBS,SPEC FOR ROTATING CASING STRING			
PN 118906: TORQUE COLLAR,CW,F/USE W RUN TOOL,TP,10.250-4 STUB ACME-2G RIGHT HAND PIN BTM AND A/F 11.50 OD X 5.00 LG BOX HGR NECK,MAXIMUM TORQUE 48000 LBF-FT			
PN 106277: WASH TOOL,CW,MBU-3T-LR,MBS2 & FLUTED,13-5/8 X 4-1/2 IF (NC50) BOX TOP THD,W/BRUSHES			
PN 119451: RUN TOOL,CW,PACKOFF,MBU-3T-UPR,13-5/8 STACK,W/11.250-4 STUB ACME-2G LEFT HAND PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/3/8 BALL BEARINGS			
PN 125190: TEST PLUG,CW,MBU-3T INNER,11 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS			
PN 123959: WBUSH,CW,MBU-3T(-ONE),UPR,NESTED,13-5/8 X 11 X 7.00 ID X 20.0 LG,A/F 13-5/8 RET TOOL,W/1/4 DRILL HOLES			
PN 117319: TORQUE COLLAR,CW,CSGHGR,F/USE W/7.62 OD X 15.38 LG BOX HGR NECK AND 10.83 OD RUNNING TOOL,MAXIMUM TORQUE 35000 LBF-FT			
PN 103164: WASH TOOL,CW,CSGHGR,MBU-2LR/MBS2-R (3T),FLUTED,11 X 4-1/2 IF (NC50) BOX TOP THDS,FAB,200 PSI MAX WP			
PN 117306: RUN TOOL,CW,PACKOFF,MBU-3T-SN,7-5/8,W/8.750-4 STUB ACME-2G LEFT HAND PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/BALL BEARINGS			
PN 116240: SUB,CROSSOVER,CW,5 HBPV PIN THD BTM X 4-1/2 IF (NC50) BOX TOP,18.0 LG,4140 110K			
NOTE: CUSTOMER RESPONSIBLE FOR LOST OR DAMAGED BEYOND REPAIR TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.			

0.00

SAFEDRILL® DRILLING ADAPTER

27	8Q	13 10M X 13 10M CQC ADPT (45D)	0.00	1,700.00	0.00
SAFEDRILL® DRILLING ADAPTER RENTAL PACKAGE = \$1,700.00 PER WELL FOR THE FIRST 45 DAYS; \$65.00 PER DAY THEREAFTER.					

RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:

PN 116966: ADPT,DRLG,CW,MBU-3T,13-5/8 10M QUICK CONNECT BTM X 13-5/8 10M STD TOP,TEMP RATING PU

PN 116992: HUB,CW,THD,MBU-3T,13-5/8 10M,W/21.750-2 STUB ACME-2G L.H. BOX THD

NOTE: CUSTOMER RESPONSIBLE FOR LOST, DAMAGED, OR BEYOND REPAIR RENTAL EQUIPMENT. RENTAL



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CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. ACCESSORIES FOR ASSEMBLY ARE NOT INCLUDED IN RENTAL RATE.					
					0.00
7-5/8" OFFLINE CEMENT					
28	50	3T OLC - 7-5/8 RT DAILY RENTAL	0.00	950.00	0.00
MBU-3T - 7-5/8" OFFLINE CEMENTING RENTAL PACKAGE = \$950.00 PER WELL RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS: PN 133817: CEMENT TOOL,CW,CSGHGR/PACKOFF,MBU-3T-LWR-OLC,NESTED,7-5/8 BC PIN TOP,W/11.250-4 STUB ACME-2G LH PIN THD HOLD DOWN RING,6.964 MIN BORE,5000 PSI MAX WP,4140 125K PN 124993: CIRCULATION PLUG,CW,CTF/MBU-3T,11 NOM,W/ONE WAY 3 HBPV,6A-U-AA-1-1 PN 107010: RUN TOOL,CW,PACKOFF,MBU-LR-LWR,11 X 3-1/2 IF (NC38) BTM & TOP,W/7.500-4 STUB ACME-2G LH PIN BTM NOTE: CUSTOMER RESPONSIBLE FOR LOST OR DAMAGE BEYOND REPAIR TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.					
					0.00
SAFEDRILL® TA CAP					
29	7T	13 10M CQC TA CAP (90D)	0.00	1,300.00	0.00
SAFEDRILL® TA CAP RENTAL PACKAGE = \$1,300.00 PER WELL FOR THE FIRST 90 DAYS; \$85.00 PER DAY THEREAFTER. PN 117347: TA CAP,CW,MBU-3T-HPS,9,13-5/8 10M QUICK CONNECT,W/ONE 1-13/16 10M FP,VR THD & 1/2 NPT PORT,6A-U-AA-1-1 PN 108499: SECSEAL,CW,TA-HPS,9 X 7-5/8 X 4.31 LG,W/7.731 BORE,6A-U-AA-1-1 PN 116992: HUB,CW,THD,MBU-3T,13-5/8 10M,W/21.750-2 STUB ACME-2G L.H. BOX THD NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED OR BEYOND REPAIR RENTAL EQUIPMENT. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. ACCESSORIES FOR ASSEMBLY ARE NOT INCLUDED IN RENTAL RATE.					
					0.00
TUBING HEAD ASSEMBLY					
30	126002-21MG		1.00	11,108.00	11,108.00
TBGHD,CW,CTH-DBLHPS-SB,7-5/8,13-5/8 10M X 7-1/16 15M,W/2 1-13/16 15M FP,W/6.375 MIN BORE & 17-4PH LDS,34.0 LG,216A-PU-EE-0,5-3-2					
31	113880MV		2.00	2,792.00	5,584.00
VLV,CW,SB100,1-13/16 15M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR2F) QPQ TRIM, API 6A PR2 ANNEX F (BORE VENT HOLE)					
32	127140		2.00	150.00	300.00
FLG,BLIND,CW,1-13/16 15M X 9/16 AUTOCLAVE,REC F/VR PLUG,6A-LU-EE-3					



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		Quantity	Price	Ext Price
33	100326 FTG,GRS,VENTED CAP,9/16 AUTOCLAVE,17-4PH BODY, 316SS VENT CAP,INCONEL X-750 SPRING & TUNGSTEN CARBIDE BALL,20,000 PSI SERVICE	1.00	89.73	89.73
34	BX151 RING GASKET,BX151,1-13/16 10/15/20M	4.00	12.77	51.08
35	105477-20E1 STUD,ALL-THD W/2 HVY HEX NUTS,BLK,7/8-9UNC X 6,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	16.00	9.76	156.16
36	BX159 RING GASKET,BX159,13-5/8 10/15/20M	1.00	117.60	117.60
37	102825-20E1 STUD,ALL-THD W/2 HVY HEX NUTS,BLK,1-7/8-8UN X 17-3/4,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	20.00	67.63	1,352.60
38	106012 ADPT,AUTOCLAVE,HIGH PRESSURE, 9/16 MALE TO 9/16 MALE,316SS,SOUR SERVICE	1.00	120.00	120.00
39	810023 NEEDLE VALVE,2 WAY ANGLE,9/16,20KSI,SOUR SERVICE,W/O COLLARS & GLANDS	1.00	289.00	289.00
40	PG15M PRESSURE GAUGE,15M,9/16 AUTOCLAVE,LIQUID FILLED	1.00	199.00	199.00
				19,367.17

CONTINGENCY EQUIPMENT

EMERGENCY EQUIPMENT; INVOICED AS REQUIRED:

41	116998 CSGHGR,CW,MBU-3T-LWR,EMERG,13-5/8 X 9-5/8,6A-PU-DD-3-2	0.00	2,200.00	0.00
42	130829 PACKOFF,CW,MBU-3T,EMERG,13-5/8 NESTED X 11 X 9-5/8,W/11.250-4 STUB ACME-2G LH BOX TOP W/RUPTURE DISK & DEEPER GALLERY,4140 110K,STD SVC,NON-NACE	0.00	5,160.00	0.00
43	108211 CSGHGR,CW,MBU-3T,UPR/MBU-2LR,UPR,11 X 5-1/2,6A-PU-DD-3-2	0.00	1,750.00	0.00
44	117298 PACKOFF,CW,MBU-3T,INNER,EMERG,NESTED,11 X 5-1/2,W/7-5/8 SEAL NECK,5 HBPV THDS & 4.93 MIN BORE,A/F HOLD DOWN RING,4130 75K,NACE SVC	0.00	1,800.00	0.00
45	104726 HOLD DOWN,RING,F/22 CSGHGR 11 X 5-1/2,A/F PACKOFF MBU-LR,13-5/8 10M,W/11.250-4 STUB ACME-2G LH PIN X 8.00 ID X 2.62 LG,4140 110K	0.00	550.00	0.00
				0.00

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

For Acceptance of this Quotation
 Please Contact Fred Stafford Ph: 713-626-8800
 riley.stafford@cactuswellhead.com

Matl:	61,788.05
Labor:	0.00
Misc:	0.00
Sales Tax:	0.00
Total:	61,788.05



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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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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.

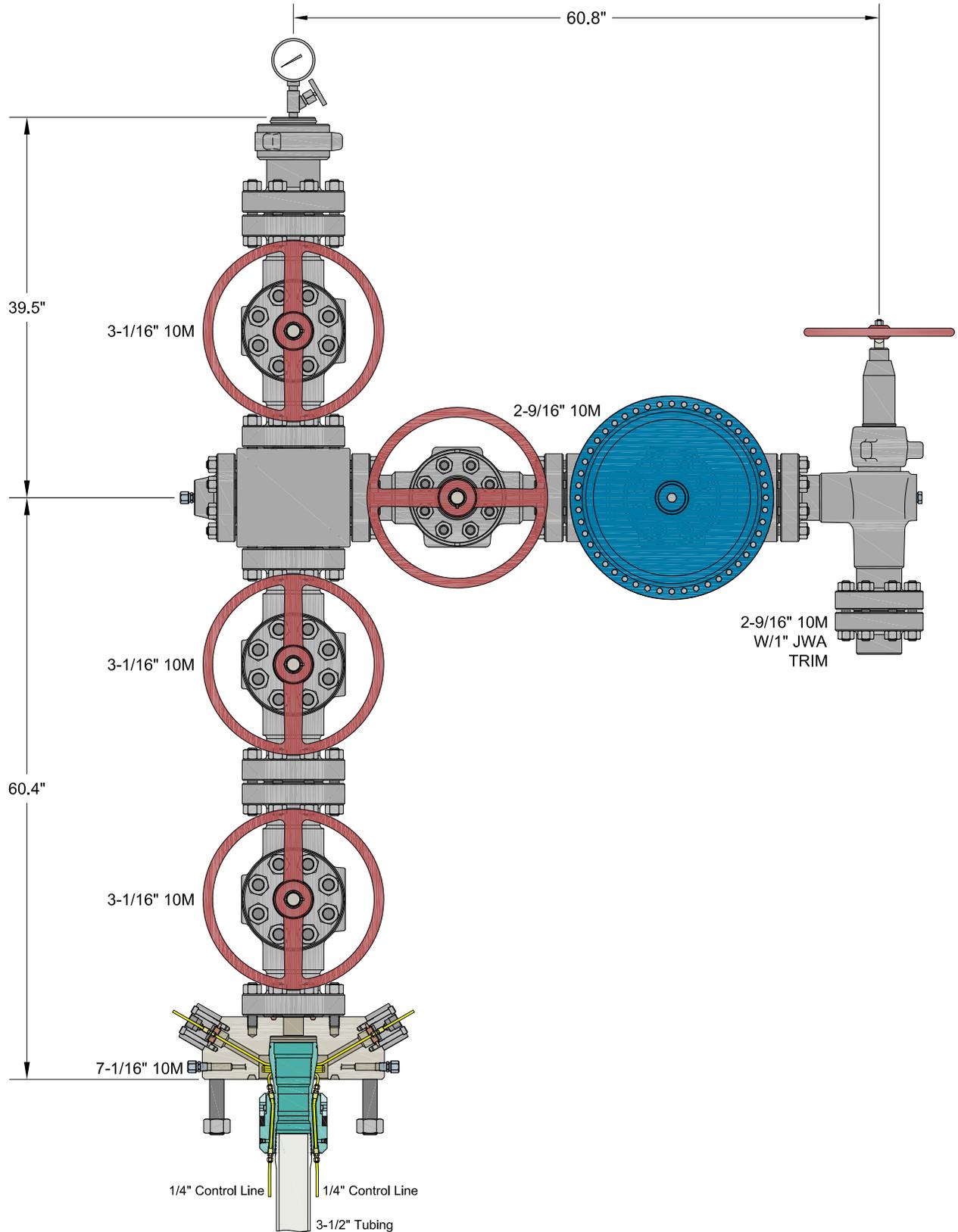
20. **CHOICE OF LAW.** THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF 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.



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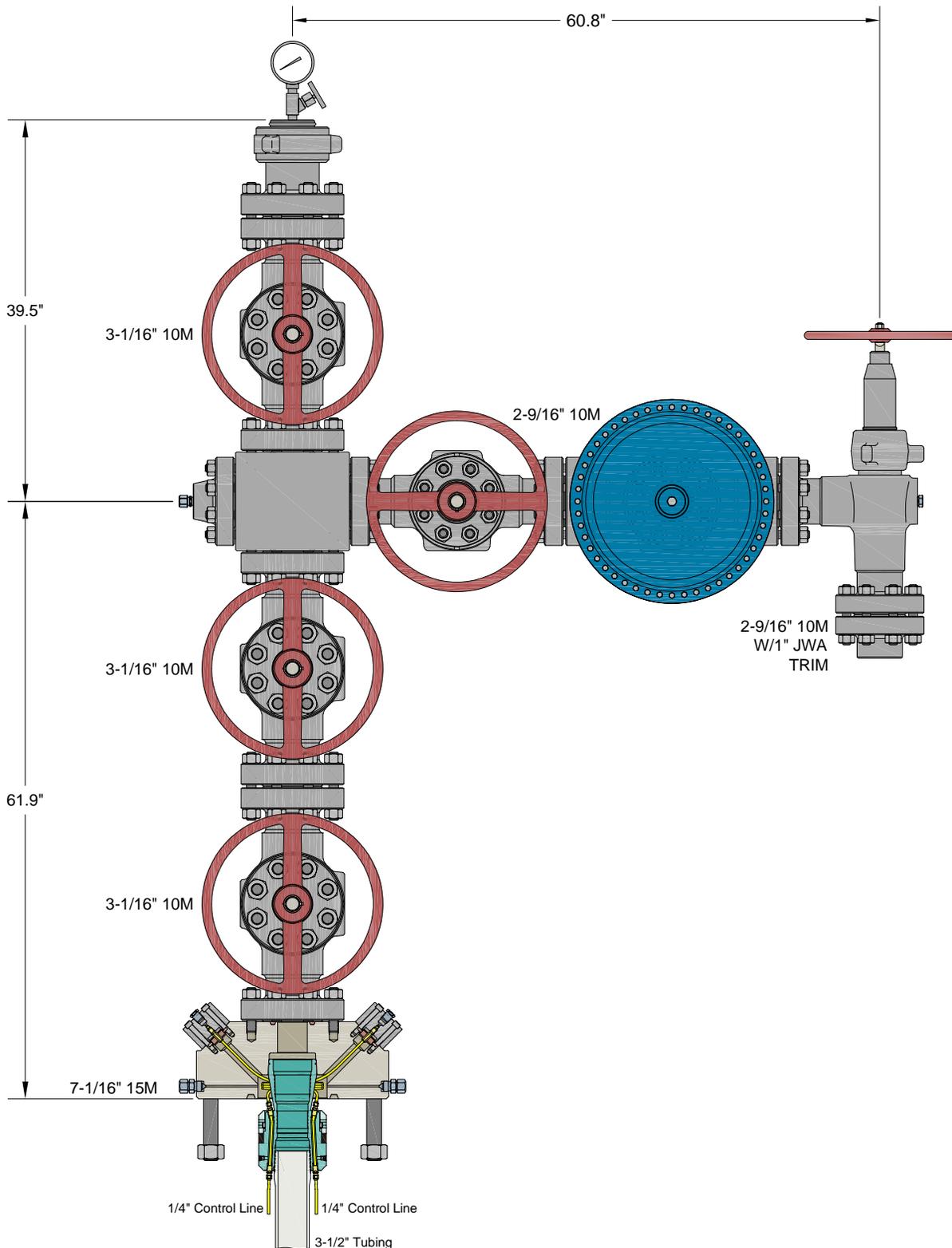
ALL DIMENSIONS APPROXIMATE

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 APPROXIMATE

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

Quote Number : HBE0001018

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

Date: 09/08/2023
Valid For 30 Days

Page 1 of 5

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
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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

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

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		Quantity	Price	Ext Price
PRODUCTION TREE ASSEMBLY				
1	124314P2 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	1.00	4,830.00	4,830.00
2	120242MV 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)	1.00	4,343.00	4,343.00
3	120242MV 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)	1.00	4,343.00	4,343.00
4	128365 CRSS,STD,AOZE,3-1/16 10M X 2-9/16 10M,6A-LU-EE-3	1.00	2,650.00	2,650.00
5	120242MV 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)	1.00	4,343.00	4,343.00
6	142800 TREETCAP,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	1.00	1,270.00	1,270.00
7	BX154 RING GASKET,BX154,3-1/16 10/15/20M	5.00	10.44	52.20
8	780077-20E1 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	16.00	19.83	317.28
9	132879 FLG,BLIND,AOZE,3-1/16 10M X 1/2 NPT,W/HUB,TEMP LU,MATL EE,PSL3	1.00	495.00	495.00
10	100048 FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING	1.00	59.74	59.74
11	115900MV 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)	1.00	3,285.00	3,285.00
12	128567 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	1.00	8,292.00	8,292.00
13	130652 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	1.00	7,500.00	7,500.00
14	120734 FLG,COMP,AOZE,2-9/16 10M X 2-7/8 EU,5000 PSI MAX WP,TEMP LU,PSL3,PR1	1.00	399.00	399.00



Cactus

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

Date: 09/08/2023
 Valid For 30 Days

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		Quantity	Price	Ext Price
15	BX153 RING GASKET,BX153,2-9/16 10/15/20M	5.00	11.54	57.70
16	780067-20E1 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	24.00	14.70	352.80
17	135166 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	1.00	4,490.00	4,490.00
18	BX156 RING GASKET,BX156,7-1/16 10/15/20M	1.00	62.48	62.48
19	NVS NEEDLE VALVE,MFS,1/2 NPT MXF,10M PSI WP,CARBON STEEL BODY, 304/316SS STEM, TFE PACKING (NON-NACE)	1.00	61.16	61.16
20	PG10M PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT	1.00	58.24	58.24
21	PRO Prorata Freight	0.75	2,768.56	2,076.42
				49,338.02

OPTIONAL 15M ADAPTER

22	124999P2 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	7,423.00	0.00
				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

Quote Number : HBE0001018

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

Date: 09/08/2023
Valid For 30 Days
Page 4 of 5
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
Quote Number : HBE0001018

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

Date: 09/08/2023

Valid For 30 Days

Page 5 of 5

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.



CERTIFICATE OF QUALITY

LTYQ/QR-5.7.1-19B

No: 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 3 rd edition
Temperature Range	-29℃ ~+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3 rd edition
Size and Lengths	In accordance with API Spec 16C 3 rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3 rd edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21 st edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3 rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3 rd edition
product Marking	In accordance with API Spec 16C 3 rd edition

Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition
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Remarks	16C-0403 
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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HYDROSTATIC TESTING REPORT

LTYT/QR-5.7.1-28

No: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd 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

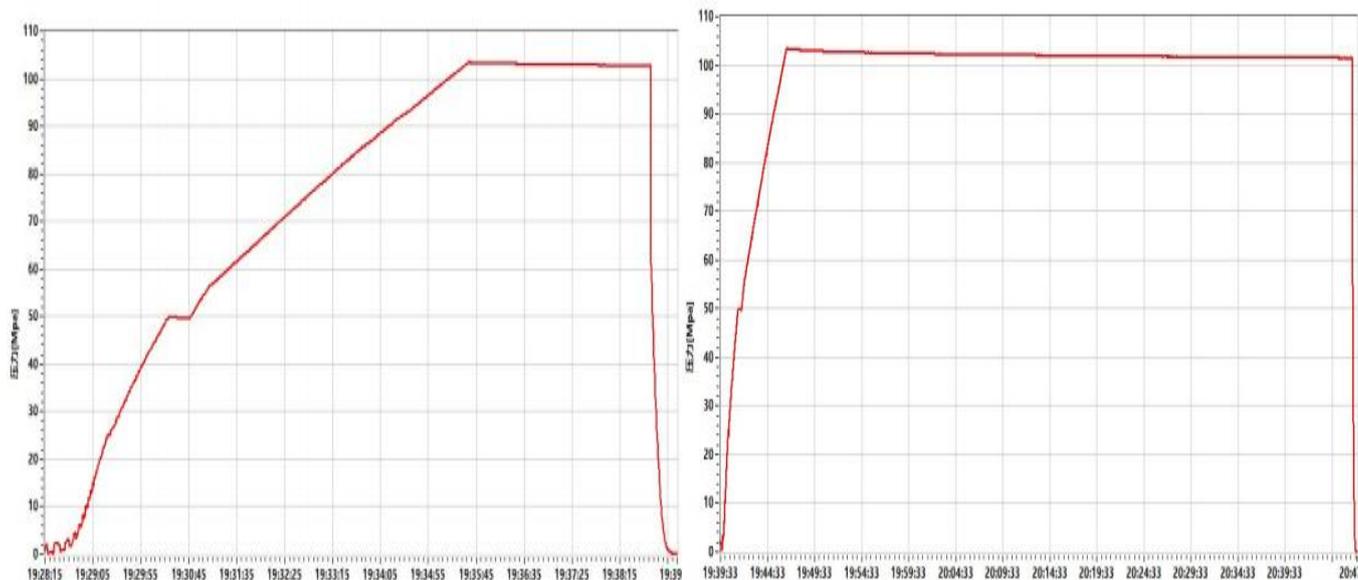
Rate of length change

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 3 rd edition		16C-0403	
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

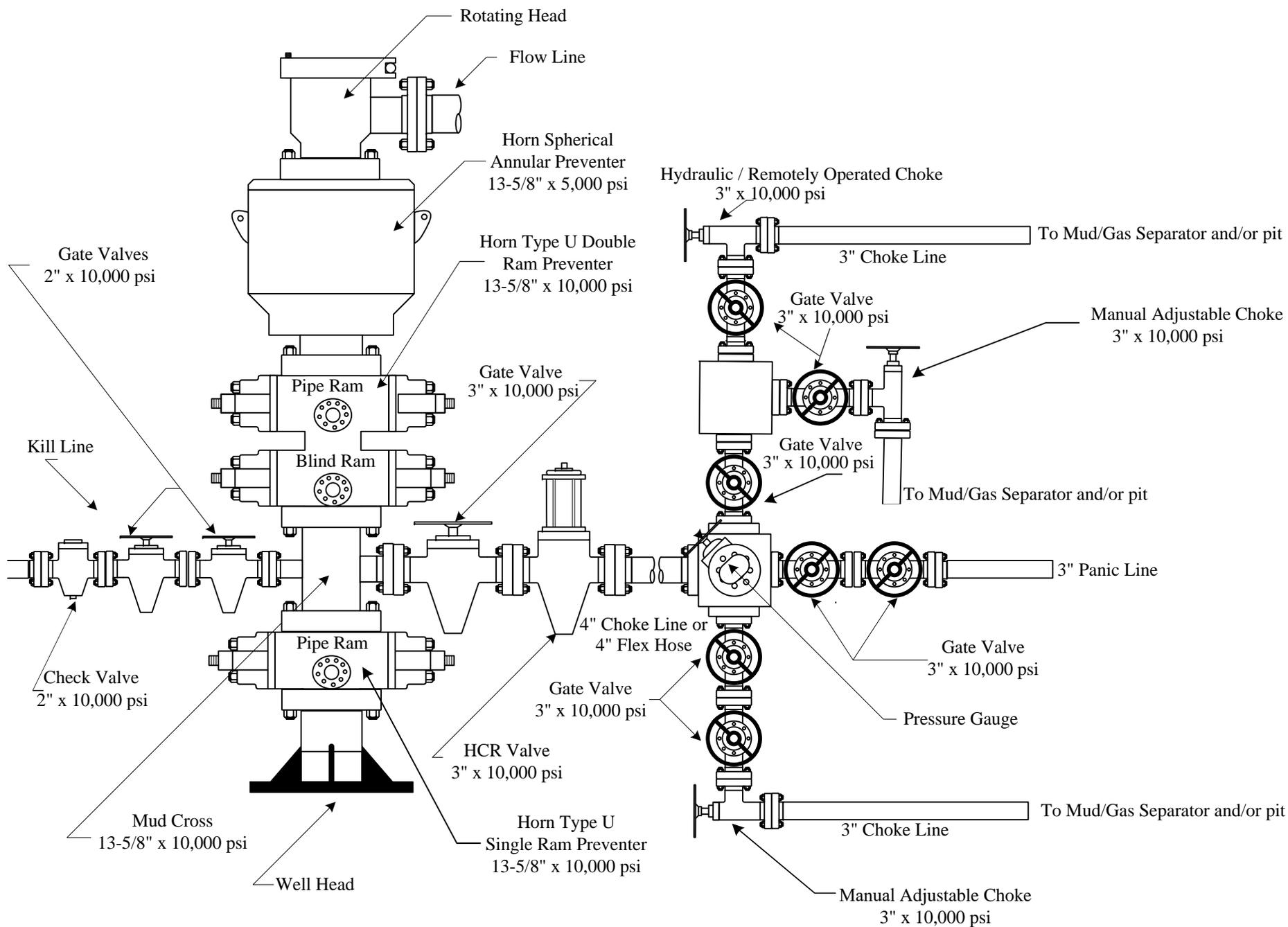
Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, 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.

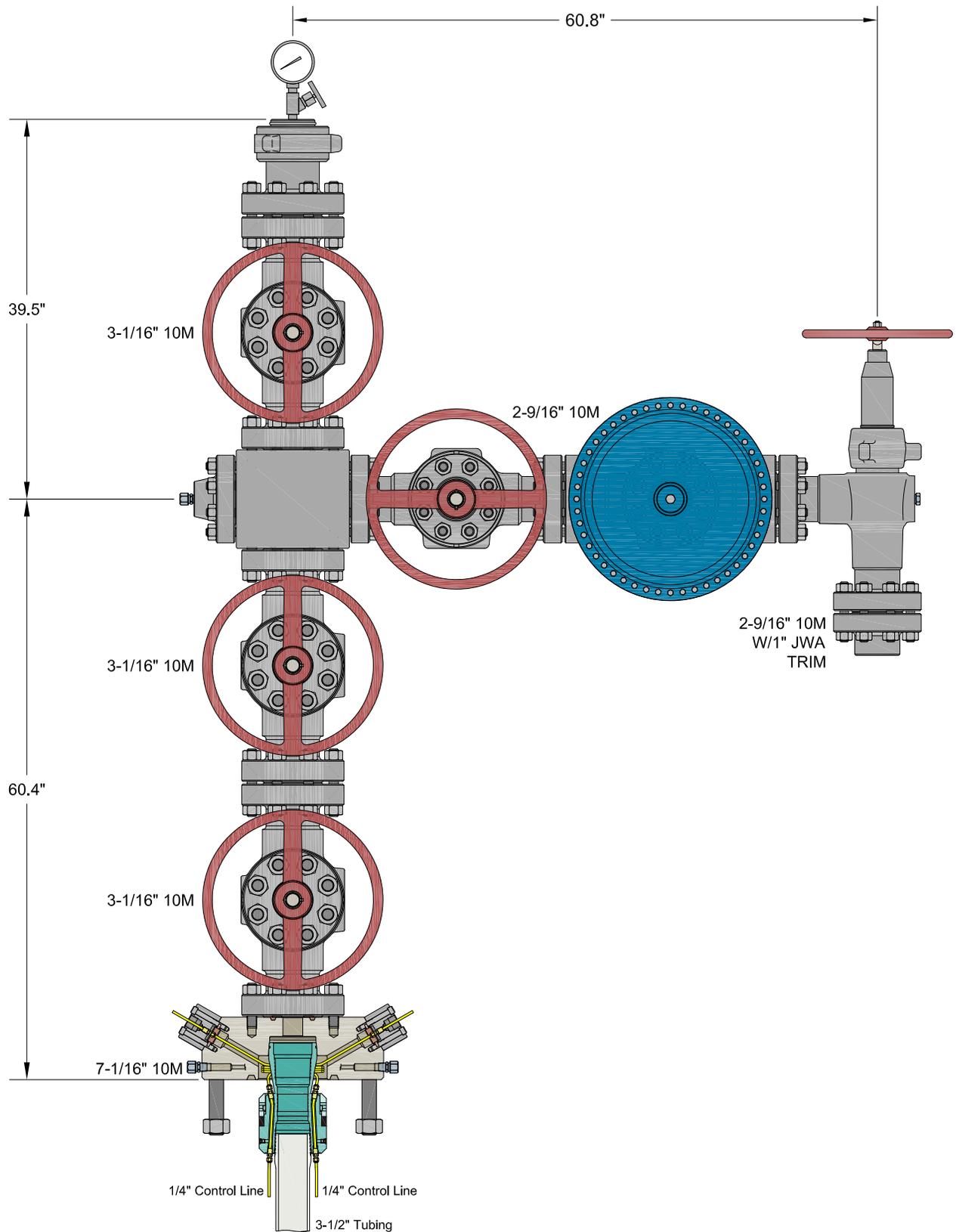
Variance Request #3: Omit the DV Tool from the Intermediate Casing

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.





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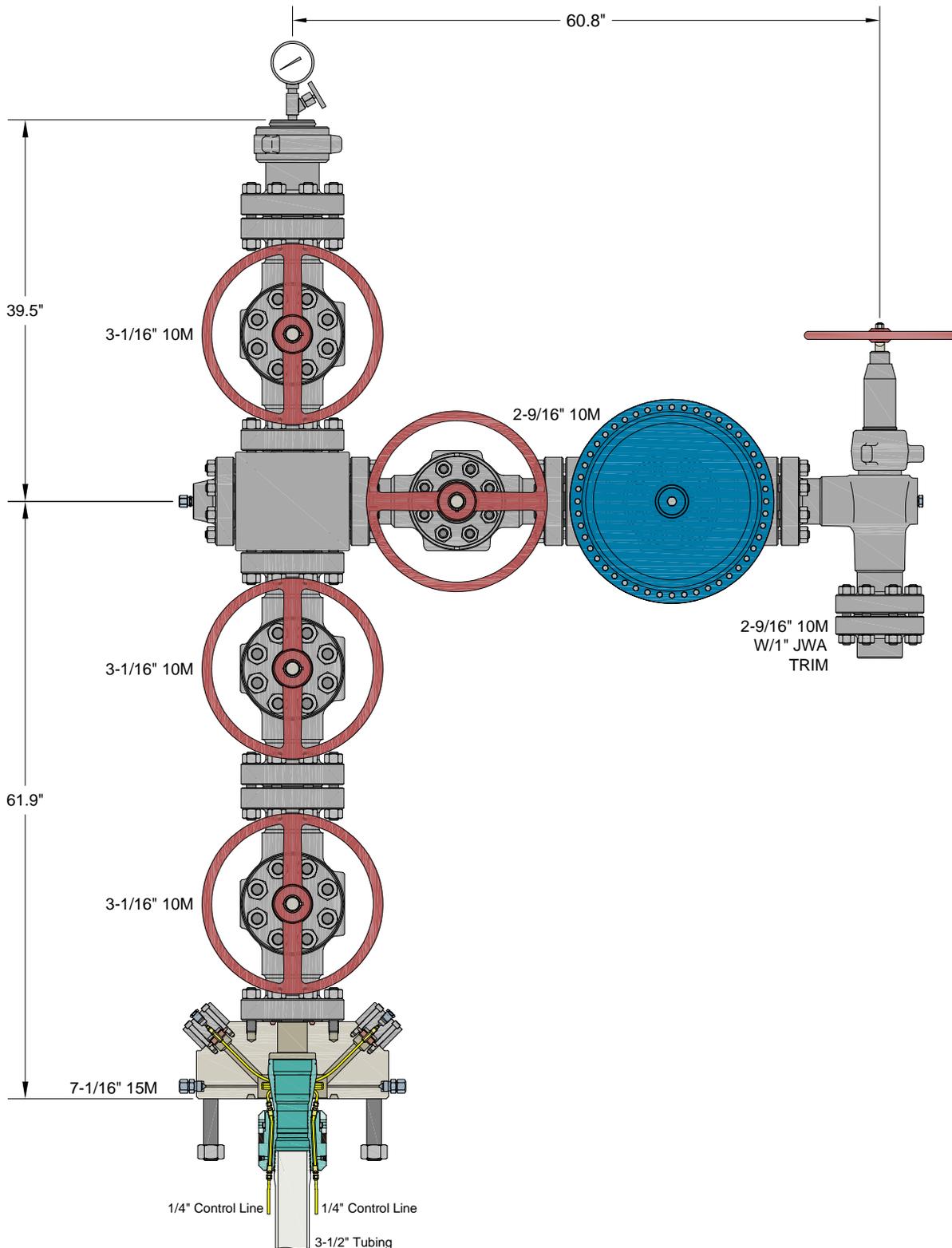
ALL DIMENSIONS APPROXIMATE

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 APPROXIMATE

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

Quote Number : HBE0001018

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

Date: 09/08/2023
Valid For 30 Days

Page 1 of 5

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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Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
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Date: 09/08/2023

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		Quantity	Price	Ext Price
PRODUCTION TREE ASSEMBLY				
1	124314P2 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	1.00	4,830.00	4,830.00
2	120242MV 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)	1.00	4,343.00	4,343.00
3	120242MV 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)	1.00	4,343.00	4,343.00
4	128365 CRSS,STD,AOZE,3-1/16 10M X 2-9/16 10M,6A-LU-EE-3	1.00	2,650.00	2,650.00
5	120242MV 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)	1.00	4,343.00	4,343.00
6	142800 TREETCAP,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	1.00	1,270.00	1,270.00
7	BX154 RING GASKET,BX154,3-1/16 10/15/20M	5.00	10.44	52.20
8	780077-20E1 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	16.00	19.83	317.28
9	132879 FLG,BLIND,AOZE,3-1/16 10M X 1/2 NPT,W/HUB,TEMP LU,MATL EE,PSL3	1.00	495.00	495.00
10	100048 FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING	1.00	59.74	59.74
11	115900MV 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)	1.00	3,285.00	3,285.00
12	128567 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	1.00	8,292.00	8,292.00
13	130652 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	1.00	7,500.00	7,500.00
14	120734 FLG,COMP,AOZE,2-9/16 10M X 2-7/8 EU,5000 PSI MAX WP,TEMP LU,PSL3,PR1	1.00	399.00	399.00



Cactus

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 Phone: 817-682-8336

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Page 3 of 5

		Quantity	Price	Ext Price
15	BX153 RING GASKET,BX153,2-9/16 10/15/20M	5.00	11.54	57.70
16	780067-20E1 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	24.00	14.70	352.80
17	135166 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	1.00	4,490.00	4,490.00
18	BX156 RING GASKET,BX156,7-1/16 10/15/20M	1.00	62.48	62.48
19	NVS NEEDLE VALVE,MFS,1/2 NPT MXF,10M PSI WP,CARBON STEEL BODY, 304/316SS STEM, TFE PACKING (NON-NACE)	1.00	61.16	61.16
20	PG10M PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT	1.00	58.24	58.24
21	PRO Prorata Freight	0.75	2,768.56	2,076.42
				49,338.02

OPTIONAL 15M ADAPTER

22	124999P2 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	7,423.00	0.00
				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

Quote Number : HBE0001018

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

Date: 09/08/2023

Valid For 30 Days

Page 4 of 5

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
Quote Number : HBE0001018

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

Date: 09/08/2023

Valid For 30 Days

Page 5 of 5

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.

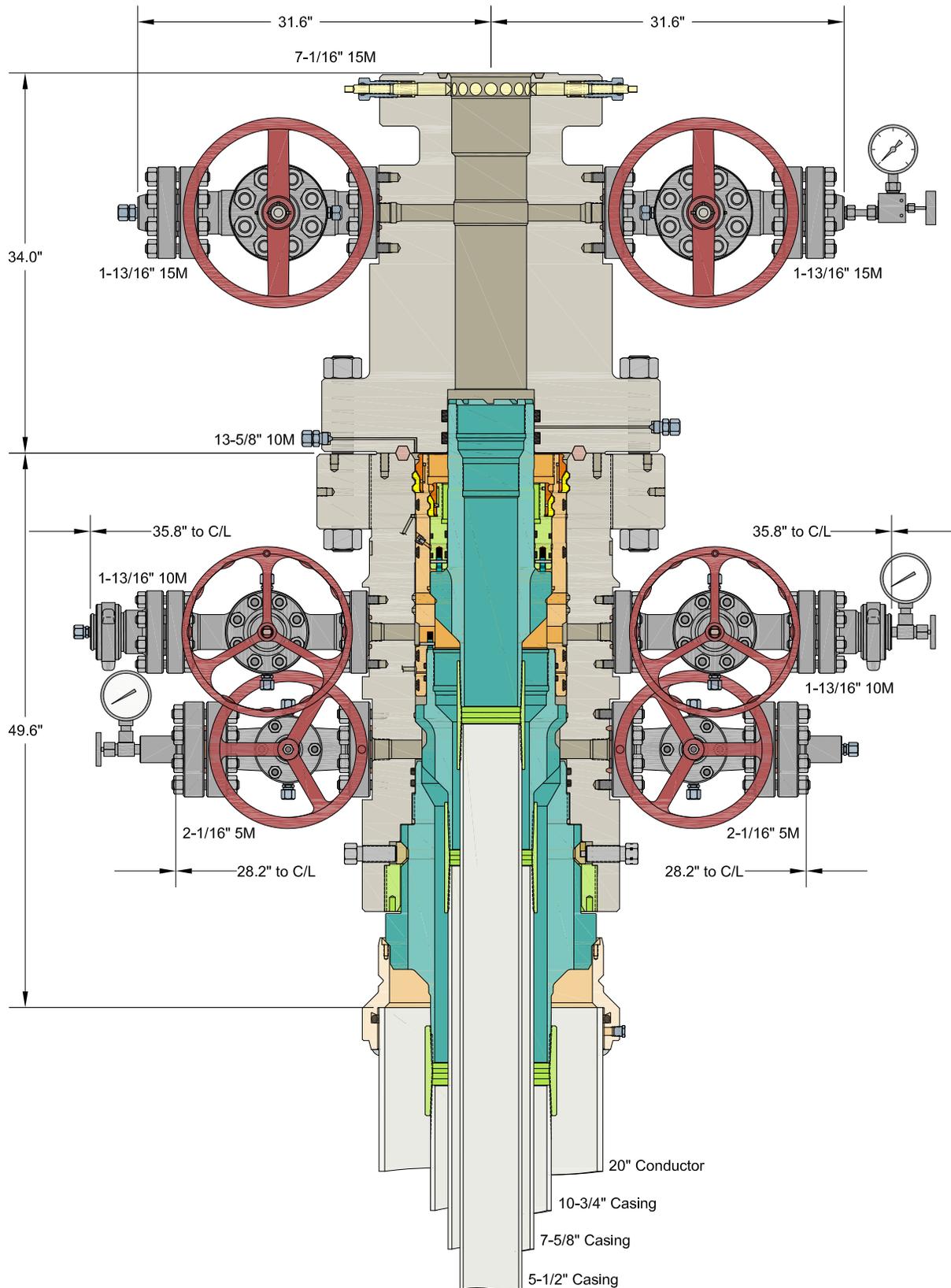
20. **CHOICE OF LAW.** THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF 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 APPROXIMATE

CACTUS WELLHEAD LLC

COTERRA ENERGY INC
HOBBS, NM

20" x 10-3/4" x 7-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO-SF Wellhead
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And 7-5/8" & 5-1/2" Mandrel Casing Hangers

DRAWN	VJK	07JUL23
APPRV		
DRAWING NO.	HBE0000965	



Cactus

Quotation

Quote Number : HBE0000965

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

Date: 07/07/2023
Valid For 30 Days

Page 1 of 8

Bill To: 7035

COTERRA ENERGY INC
PO BOX 4544
Attn: GULF COAST OFFICE
HOUSTON TX 77210
US

Ship To: 0

COTERRA ENERGY INC
PO BOX 4544
Attn: GULF COAST OFFICE
HOUSTON TX 77210
US

	Quantity	Price	Ext Price
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COTERRA ENERGY INC
DAVID SHAW

HOBBS, NM

MBU-3T-CFL-R SAFEDRILL® WELLHEAD SYSTEM
20" X 10-3/4" X 7-5/8" X 5-1/2"

QUOTATION SUMMARY:

- MBU-3T-CFL ASSEMBLY - \$29,839.64
- CASING HANGERS & PACKOFFS - \$12,581.24
- TUBING HEAD ASSEMBLY - \$19,367.17

CACTUS CONTACT:
RILEY STAFFORD
OFFICE: 405.708.7217
MOBILE: 405.445.2222
EMAIL: riley.stafford@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 PRO RATA FREIGHT AND OTHER APPLICABLE MILEAGE AND SERVICE CHARGES THAT MAY BE CHARGED AT TIME OF INVOICING.



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		Quantity	Price	Ext Price
MBU-3T-CFL ASSEMBLY				
1	122079P2 HSG,CW,MBU-3T-CFL-R-DBLO-SF,13-3/8,13-5/8 10M,W/TWO 1-13/16 10M FP UPR & TWO 2-1/16 5M FP LWR,W/O 13-5/8 10M THD FLG,6A-PU-AA-2-2	1.00	12,026.00	12,026.00
2	126808P2 HSG,CW,MBU-3T-CFL-R-DBLO-SF,13-3/8,13-5/8 10M,W/TWO 1-13/16 10M FP UPR & TWO 2-1/16 5M FP LWR,W/O 13-5/8 10M THD FLG,TEMP PU,MATL EE,PSL2,PR2	0.00	12,168.80	0.00
3	110578 FLG,THD,13-5/8 10M W/21.750-2 STUB ACME-2G L.H. BOX THD,31.00 OD,4130 75K & I/T @ -75 DEG F	1.00	2,590.00	2,590.00
4	120455 LANDING RING,CW,CTF/MBU-T/3T,20 SOW X 20 SN X 18.13 ID,750K MAX LOAD CAPACITY	1.00	2,789.92	2,789.92
5	130791 CSGHGR,CW,MBU-3T-CFL-R,13-3/8,10-3/4 (40.5#) BC PIN BTM X 14.000-2 STUB ACME-2G LEFT HAND PIN TOP,10.040 MIN BORE,4140 110K,TEMP U,MATL AA,PSL2,PR2	1.00	3,990.00	3,990.00
6	NOTE: ACCEPTABLE FOR USE WITH 10-3/4 (45.5#) BC J/K-55 CASING 133772 VLV,AOZE,GEN,M-EXP-FB,2-1/16 3/5M FE DD (6A LU DD PSL2 PR1) QPQ TRIM & 4130 STEM	2.00	950.00	1,900.00
7	200002 FLG,COMP,CW,2-1/16 5M X 2 LP,6A-KU-EE-1	2.00	120.00	240.00
8	BP2T BULL PLUG,CW,2 LP X 1/2 NPT,API 6A DD	2.00	42.48	84.96
9	100048 FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING	1.00	59.74	59.74
10	R24 RING GASKET,R24,2-1/16 3/5M	4.00	8.82	35.28
11	780067-20E1 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	16.00	14.70	235.20
12	107412MV VLV,CW,SB100,1-13/16 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)	2.00	2,017.00	4,034.00
13	122007 ADPT,CW,CFH,1-13/16 10M X 2 FIG 1502 X 1/2 NPT,NACE SVC,TEMP PU, PSL2	2.00	685.00	1,370.00
14	100048 FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING	1.00	59.74	59.74
15	BX151 RING GASKET,BX151,1-13/16 10/15/20M	4.00	12.77	51.08



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Page 3 of 8

		Quantity	Price	Ext Price
16	780080-20E1 STUD,ALL-THD W/2 HVY HEX NUTS,BLK,3/4-10UNC X 5-1/2,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	16.00	9.13	146.08
17	NVA NEEDLE VALVE,MFA,1/2 10M	2.00	55.58	111.16
18	PG5M PRESSURE GAUGE,5M,4-1/2 FACE,LIQUID FILLED,1/2 NPT	1.00	58.24	58.24
19	PG10M PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT	1.00	58.24	58.24
20	132804 RISER ADPT,CW,LRA,20.12 DBLO X 20 SOW TOP X 19.5 ID,8.5 LG,W/8 1-8 UNC-2B TAP HOLES,5.00 DEEP PKT W/1/2 ORINGS & 1/2 NPT TEST PORT,300 PSI MAX WP,A/F 20.12 LANDING RING	0.00	8,024.00	0.00
NOTE: THE AFOREMENTIONED ITEM IS A ONE TIME CHARGE PER RIG; PRICE NOT INCLUDED IN THE TOTAL.				29,839.64

CASING HANGERS & PACKOFFS

21	130916 CSGHGR,CW,MBU-3T-LWR-TP8,FLUTED,13-5/8 X 7-5/8 (29.7#) BC PIN BTM X 10.250-4 STUB ACME-2G RIGHT HAND BOX TOP,W/11-1/2 OD NECK,4140 110K,TEMP U,MATL AA,PSL2,PR2	1.00	2,075.00	2,075.00
22	130570 PACKOFF,CW,MBU-3T,MANDREL,13-5/8 NESTED X 11,W/11.250-4 STUB ACME-2G LH BOX TOP W/RUPTURE DISK & DEEPER GALLERY,4140 110K,STD SVC,NON-NACE	1.00	4,006.24	4,006.24
23	137978 CSGHGR,CW,MBU-3T-TP8-UPR,SN,7-5/8,FLUTED,11 NESTED X 5-1/2 (23#) BK-HT PIN BTM X 6.125-4 STUB ACME-2G RIGHT HAND BOX TOP & 5 HBPV THD,SPEC FOR ROTATING CASING STRING,4140 125K,TEMP U,MATL AA,PSL3,PR2	1.00	4,550.00	4,550.00
24	131863 RUN TOOL,CW,CSGHGR,TP8,6.125-4 STUB ACME-2G RIGHT HAND PIN BTM X 5-1/2 (23#) BK-HT BOX TOP,W/4.654 MIN BORE & MAX LOAD CAPACITY 580K,MAX TORQUE 33000 FT-LBS,SPEC FOR ROTATING CASING STRING,4140 125K	0.00	5,728.80	0.00
NOTE:MAX CASING CONNECTION TORQUE PER THREADERS SPEC				
25	115867 PACKOFF,CW,CTF-MBU-3T,11,A/F 7.75 SEAL PREP,W/8.750-4 STUB ACME-2G LH BOX TOP,A/F LANDING ON 45 DEG SHOULDER ON HANGER,4130 80K,NACE SVC,PSL2	1.00	1,950.00	1,950.00
				12,581.24

RENTAL TOOLS

26	AR4 3T-CFL DT 10-3/4 X 7-5/8 X 5-1/2 MAN	0.00	2,250.00	0.00
MBU-3T-R RENTAL TOOLS = \$2,250.00 PER WELL FOR THE FIRST 45 DAYS; \$195.00 PER DAY THEREAFTER				
RENTAL TOOLS INCLUDE THE FOLLOWING ITEMS:				
PN 119126: LIFT RING,CSGHGR,CFL-R,W/14.000-2 STUB ACME-2G LEFT HAND THDS,4140 110K				
PN 121275: RUN TOOL,CW,CSGHGR,MBU-3T-CFL-R,10-3/4 BC BOX TOP X 14.000-2 STUB ACME-2G LH BOX LANDING				



Cactus

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	Quantity	Price	Ext Price		
THD,10.00 MIN BORE					
PN 118178: TORQUE COLLAR,CW,CSGHGR,MBU-3T-CFL-R,F/16 NECK,4140 110K					
PN 104467: COMB TEST PLUG/RET TOOL,CW,13-5/8 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS & SPRING LOADED DOGS					
PN 122539: WBUSH,CW,MBU-3T,LWR,13-5/8 X 10. 00 ID X 27.0 LG,W/3/8 UPR ORING & W/O 2.38 GROOVE					
PN 121602: RUN TOOL,CW,CSGHGR,TP4,13-5/8 X 7-5/8 BC BOX TOP,10.250-4 STUB ACME-2G RIGHT HAND PIN BTM,MAX LOAD CAPACITY 1000K,MAX TORQUE 18000FT-LBS,SPEC FOR ROTATING CASING STRING					
PN 118906: TORQUE COLLAR,CW,F/USE W RUN TOOL,TP,10.250-4 STUB ACME-2G RIGHT HAND PIN BTM AND A/F 11.50 OD X 5.00 LG BOX HGR NECK,MAXIMUM TORQUE 48000 LBF-FT					
PN 106277: WASH TOOL,CW,MBU-3T-LR,MBS2 & FLUTED,13-5/8 X 4-1/2 IF (NC50) BOX TOP THD,W/BRUSHES					
PN 119451: RUN TOOL,CW,PACKOFF,MBU-3T-UPR,13-5/8 STACK,W/11.250-4 STUB ACME-2G LEFT HAND PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/3/8 BALL BEARINGS					
PN 125190: TEST PLUG,CW,MBU-3T INNER,11 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS					
PN 123959: WBUSH,CW,MBU-3T(-ONE),UPR,NESTED,13-5/8 X 11 X 7.00 ID X 20.0 LG,A/F 13-5/8 RET TOOL,W/1/4 DRILL HOLES					
PN 117319: TORQUE COLLAR,CW,CSGHGR,F/USE W/7.62 OD X 15.38 LG BOX HGR NECK AND 10.83 OD RUNNING TOOL,MAXIMUM TORQUE 35000 LBF-FT					
PN 103164: WASH TOOL,CW,CSGHGR,MBU-2LR/MBS2-R (3T),FLUTED,11 X 4-1/2 IF (NC50) BOX TOP THDS,FAB,200 PSI MAX WP					
PN 117306: RUN TOOL,CW,PACKOFF,MBU-3T-SN,7-5/8,W/8.750-4 STUB ACME-2G LEFT HAND PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/BALL BEARINGS					
PN 116240: SUB,CROSSOVER,CW,5 HBPV PIN THD BTM X 4-1/2 IF (NC50) BOX TOP,18.0 LG,4140 110K					
NOTE: CUSTOMER RESPONSIBLE FOR LOST OR DAMAGED BEYOND REPAIR TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.					
			0.00		
SAFEDRILL® DRILLING ADAPTER					
27	8Q	13 10M X 13 10M CQC ADPT (45D)	0.00	1,700.00	0.00
SAFEDRILL® DRILLING ADAPTER RENTAL PACKAGE = \$1,700.00 PER WELL FOR THE FIRST 45 DAYS; \$65.00 PER DAY THEREAFTER.					
RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:					
PN 116966: ADPT,DRLG,CW,MBU-3T,13-5/8 10M QUICK CONNECT BTM X 13-5/8 10M STD TOP,TEMP RATING PU					
PN 116992: HUB,CW,THD,MBU-3T,13-5/8 10M,W/21.750-2 STUB ACME-2G L.H. BOX THD					

NOTE: CUSTOMER RESPONSIBLE FOR LOST, DAMAGED, OR BEYOND REPAIR RENTAL EQUIPMENT. RENTAL



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CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. ACCESSORIES FOR ASSEMBLY ARE NOT INCLUDED IN RENTAL RATE.					
					0.00
7-5/8" OFFLINE CEMENT					
28	50	3T OLC - 7-5/8 RT DAILY RENTAL	0.00	950.00	0.00
MBU-3T - 7-5/8" OFFLINE CEMENTING RENTAL PACKAGE = \$950.00 PER WELL					
RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:					
PN 133817: CEMENT TOOL,CW,CSGHGR/PACKOFF,MBU-3T-LWR-OLC,NESTED,7-5/8 BC PIN TOP,W/11.250-4 STUB ACME-2G LH PIN THD HOLD DOWN RING,6.964 MIN BORE,5000 PSI MAX WP,4140 125K					
PN 124993: CIRCULATION PLUG,CW,CTF/MBU-3T,11 NOM,W/ONE WAY 3 HBPV,6A-U-AA-1-1					
PN 107010: RUN TOOL,CW,PACKOFF,MBU-LR-LWR,11 X 3-1/2 IF (NC38) BTM & TOP,W/7.500-4 STUB ACME-2G LH PIN BTM					
NOTE: CUSTOMER RESPONSIBLE FOR LOST OR DAMAGE BEYOND REPAIR TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.					
					0.00
SAFEDRILL® TA CAP					
29	7T	13 10M CQC TA CAP (90D)	0.00	1,300.00	0.00
SAFEDRILL® TA CAP RENTAL PACKAGE = \$1,300.00 PER WELL FOR THE FIRST 90 DAYS; \$85.00 PER DAY THEREAFTER.					
PN 117347: TA CAP,CW,MBU-3T-HPS,9,13-5/8 10M QUICK CONNECT,W/ONE 1-13/16 10M FP,VR THD & 1/2 NPT PORT,6A-U-AA-1-1					
PN 108499: SECSEAL,CW,TA-HPS,9 X 7-5/8 X 4.31 LG,W/7.731 BORE,6A-U-AA-1-1					
PN 116992: HUB,CW,THD,MBU-3T,13-5/8 10M,W/21.750-2 STUB ACME-2G L.H. BOX THD					
NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED OR BEYOND REPAIR RENTAL EQUIPMENT. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. ACCESSORIES FOR ASSEMBLY ARE NOT INCLUDED IN RENTAL RATE.					
					0.00
TUBING HEAD ASSEMBLY					
30	126002-21MG		1.00	11,108.00	11,108.00
TBGHD,CW,CTH-DBLHPS-SB,7-5/8,13-5/8 10M X 7-1/16 15M,W/2 1-13/16 15M FP,W/6.375 MIN BORE & 17-4PH LDS,34.0 LG,216A-PU-EE-0,5-3-2					
31	113880MV		2.00	2,792.00	5,584.00
VLV,CW,SB100,1-13/16 15M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR2F) QPQ TRIM, API 6A PR2 ANNEX F (BORE VENT HOLE)					
32	127140		2.00	150.00	300.00
FLG,BLIND,CW,1-13/16 15M X 9/16 AUTOCLAVE,REC F/VR PLUG,6A-LU-EE-3					



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		Quantity	Price	Ext Price
33	100326 FTG,GRS,VENTED CAP,9/16 AUTOCLAVE,17-4PH BODY, 316SS VENT CAP,INCONEL X-750 SPRING & TUNGSTEN CARBIDE BALL,20,000 PSI SERVICE	1.00	89.73	89.73
34	BX151 RING GASKET,BX151,1-13/16 10/15/20M	4.00	12.77	51.08
35	105477-20E1 STUD,ALL-THD W/2 HVY HEX NUTS,BLK,7/8-9UNC X 6,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	16.00	9.76	156.16
36	BX159 RING GASKET,BX159,13-5/8 10/15/20M	1.00	117.60	117.60
37	102825-20E1 STUD,ALL-THD W/2 HVY HEX NUTS,BLK,1-7/8-8UN X 17-3/4,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	20.00	67.63	1,352.60
38	106012 ADPT,AUTOCLAVE,HIGH PRESSURE, 9/16 MALE TO 9/16 MALE,316SS,SOUR SERVICE	1.00	120.00	120.00
39	810023 NEEDLE VALVE,2 WAY ANGLE,9/16,20KSI,SOUR SERVICE,W/O COLLARS & GLANDS	1.00	289.00	289.00
40	PG15M PRESSURE GAUGE,15M,9/16 AUTOCLAVE,LIQUID FILLED	1.00	199.00	199.00
				19,367.17

CONTINGENCY EQUIPMENT

EMERGENCY EQUIPMENT; INVOICED AS REQUIRED:

41	116998 CSGHGR,CW,MBU-3T-LWR,EMERG,13-5/8 X 9-5/8,6A-PU-DD-3-2	0.00	2,200.00	0.00
42	130829 PACKOFF,CW,MBU-3T,EMERG,13-5/8 NESTED X 11 X 9-5/8,W/11.250-4 STUB ACME-2G LH BOX TOP W/RUPTURE DISK & DEEPER GALLERY,4140 110K,STD SVC,NON-NACE	0.00	5,160.00	0.00
43	108211 CSGHGR,CW,MBU-3T,UPR/MBU-2LR,UPR,11 X 5-1/2,6A-PU-DD-3-2	0.00	1,750.00	0.00
44	117298 PACKOFF,CW,MBU-3T,INNER,EMERG,NESTED,11 X 5-1/2,W/7-5/8 SEAL NECK,5 HBPV THDS & 4.93 MIN BORE,A/F HOLD DOWN RING,4130 75K,NACE SVC	0.00	1,800.00	0.00
45	104726 HOLD DOWN,RING,F/22 CSGHGR 11 X 5-1/2,A/F PACKOFF MBU-LR,13-5/8 10M,W/11.250-4 STUB ACME-2G LH PIN X 8.00 ID X 2.62 LG,4140 110K	0.00	550.00	0.00
				0.00

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

For Acceptance of this Quotation
 Please Contact Fred Stafford Ph: 713-626-8800
 riley.stafford@cactuswellhead.com

Matl:	61,788.05
Labor:	0.00
Misc:	0.00
Sales Tax:	0.00
Total:	61,788.05



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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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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.

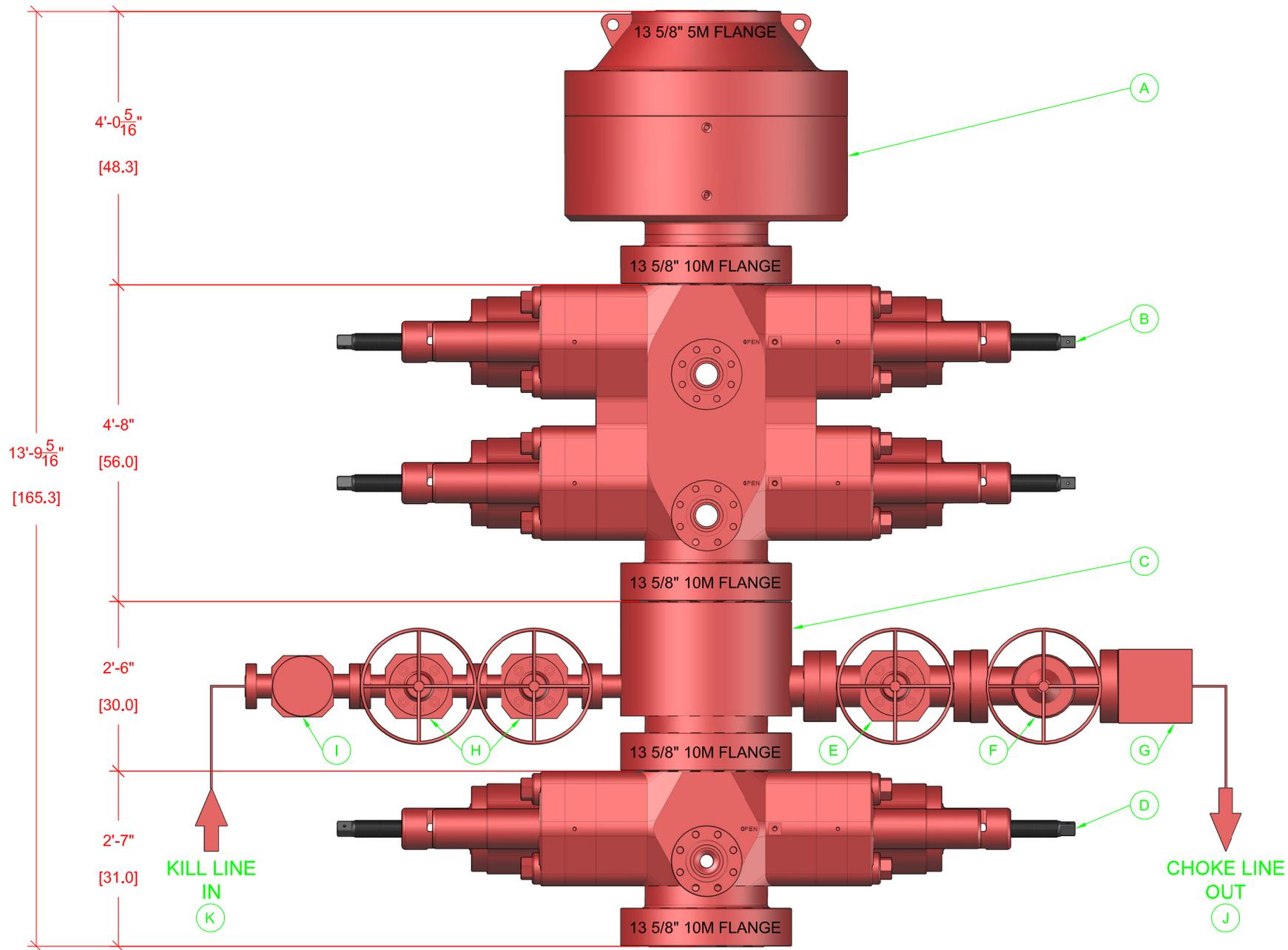
20. **CHOICE OF LAW.** THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF 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.

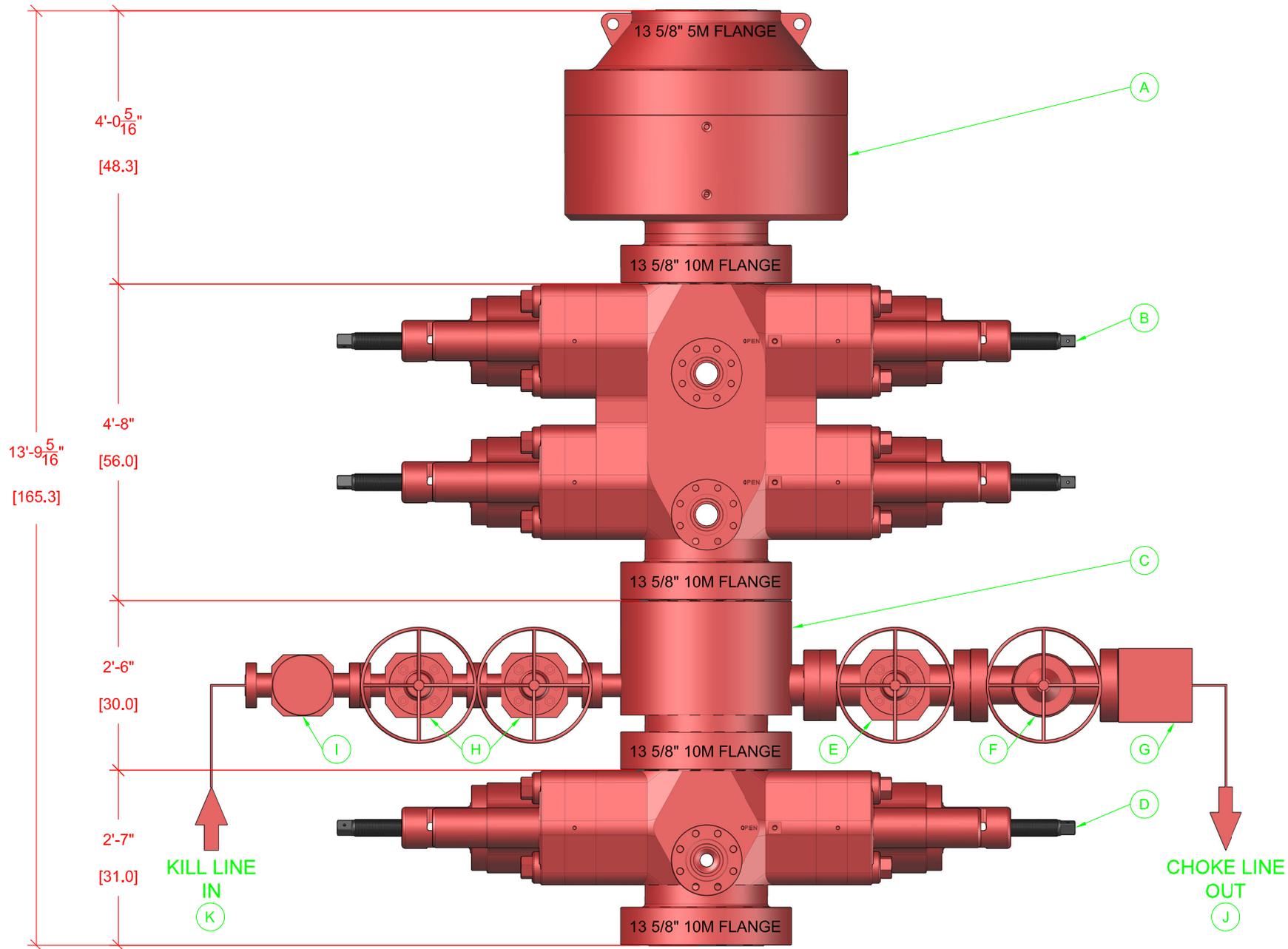
23. **CONFIDENTIALITY.** Customer acknowledges the highly secret and valuable nature of all proprietary inventions, methods, processes, designs, know-how, and trade secrets embodied in the Company's equipment, Products and Services and its components (hereinafter referred to as "Confidential Data"). 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.



BOP EQUIPMENT INFORMATION

DESCRIPTION	MODEL	QTY	ITEM	DESCRIPTION	MODEL	QTY
ANNULAR BOP	13 5/8" 5M	1	G	STUDDED BLOCK	4 1/2" 10M	1
DOUBLE RAM BOP	13 5/8" 10M TYPE-U	1	H	GATE VALE	2 1/2" 10M FC MANUAL	2
MUD CROSS	13 5/8" 10M	1	I	CHECK VALVE	2 1/2" 10M	1
SINGLE RAM BOP	13 5/8" 10M TYPE-U	1	J	CHOKE HOSE	4 1/2" 10M	1
GATE VALVE	4 1/2" 10M FC MANUAL	1	K	KILL HOSE	2 1/2" 10M	1
HCR VALVE	4 1/2" 10M HCR	1	L			



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HCR VALVE	4 1/2" 10M HCR	1	L			

Technical Specifications

Connection Type: DW/C-IS PLUS Casing STANDARD
Size(O.D.): 5-1/2 in
Weight (Wall): 23.00 lb/ft (0.415 in)
Grade: VST P110 RY

Material
 VST P110 RY Grade
 110,000 Minimum Yield Strength (psi.)
 125,000 Minimum Ultimate Strength (psi.)



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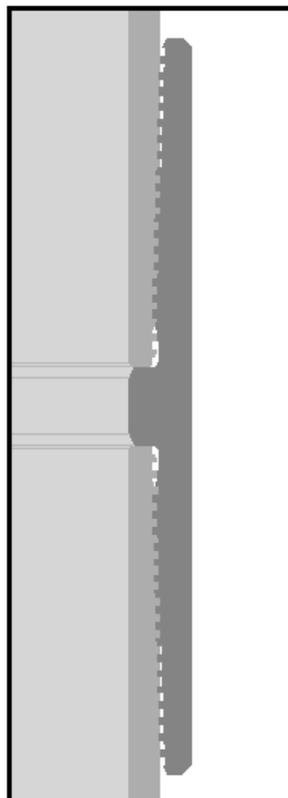
Pipe Dimensions
 5.500 Nominal Pipe Body O.D. (in.)
 4.670 Nominal Pipe Body I.D. (in.)
 0.415 Nominal Wall Thickness (in.)
 23.00 Nominal Weight (lbs./ft.)
 22.56 Plain End Weight (lbs./ft.)
 6.630 Nominal Pipe Body Area (sq. in.)

Pipe Body Performance Properties
 729,000 Minimum Pipe Body Yield Strength (lbs.)
 14,540 Minimum Collapse Pressure (psi.)
 14,530 Minimum Internal Yield Pressure (psi.)
 13,300 Hydrostatic Test Pressure (psi.)

Connection Dimensions
 6.300 Connection O.D. (in.)
 4.670 Connection I.D. (in.)
 4.545 Connection Drift Diameter (in.)
 4.13 Make-up Loss (in.)
 6.630 Critical Area (sq. in.)
 100.0 Joint Efficiency (%)

Connection Performance Properties
 729,000 Joint Strength (lbs.)
 22,640 Reference String Length (ft) 1.4 Design Factor
 759,000 API Joint Strength (lbs.)
 729,000 Compression Rating (lbs.)
 14,540 API Collapse Pressure Rating (psi.)
 14,530 API Internal Pressure Resistance (psi.)
 91.7 Maximum Uniaxial Bend Rating [degrees/100 ft]

Approximated Field End Torque Values
 17,700 Minimum Final Torque (ft.-lbs.)
 20,400 Maximum Final Torque (ft.-lbs.)
 23,000 Connection Yield Torque (ft.-lbs.)



For detailed information on performance properties, refer to DW/C Connection Data Notes on following page(s).

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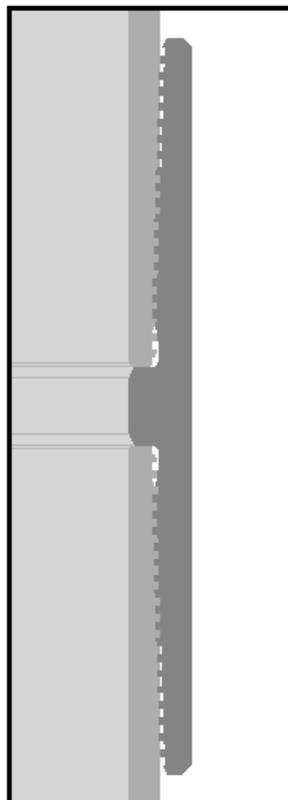
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VAM USA
 2107 CityWest Boulevard Suite 1300
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DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



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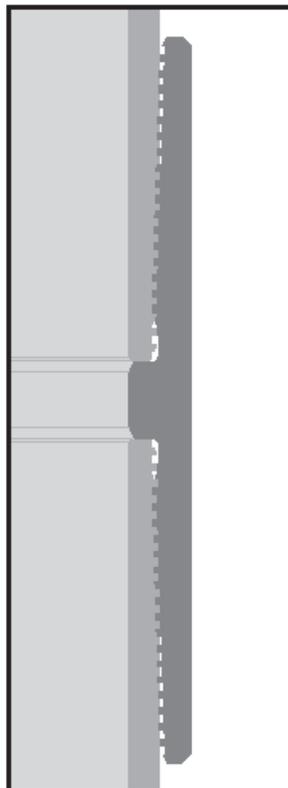
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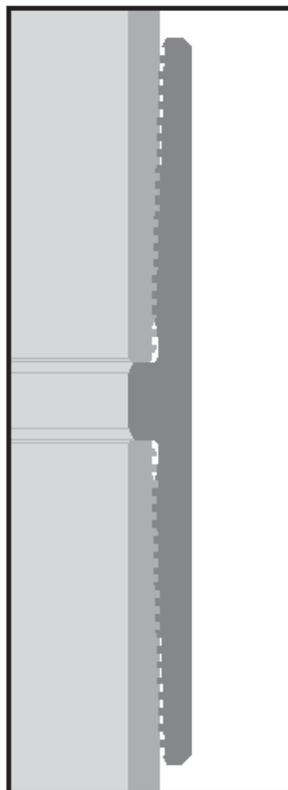
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1. Geological Formations

TVD of target 9,673
MD at TD 20,608

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1091	N/A	
Top of Salt	1570	N/A	
Base of 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	
Wolfcamp	9518	Hydrocarbons	
Wolfcamp - Target	9673	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
14 3/4	0	1050	1050	10-3/4"	40.50	J-55	BT&C	3.47	6.88	14.79
9 7/8	0	10058	9633	7-5/8"	29.70	L-80	BT&C	3.01	1.45	2.32
6 3/4	0	9309	9309	5-1/2"	23.00	P-110	BT&C	2.50	2.13	4.16
6 3/4	9309	20608	9673	5"	18.00	P-110	BT&C	2.23	2.26	88.52
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

Request Variance for 5-1/2" x 7-5/8" annular clearance. The portion that does not meet clearance will not be cemented

Coterra: H2S Plan



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

Coterra: H2S Plan

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 time
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.

Coterra: H2S Plan

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 (SO₂). 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.
2. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Coterra's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

Coterra: H2S Plan

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	Kernit	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	Mertzton			
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
Yoakum County	806-456-2377	Plains	806-456-2288		
Garza County	806-495-3595	Post			
Upton County	432-693-2422	Rankin			
Coke County	915-453-2717	Robert Lee			
		Roscoe	325-766-3931		
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
Gaines County	432-758-9871	Seminole	432-758-3621	Memorial Hospital	432-758-5811
Terrell County	432-345-2525	Sanderson			
Scurry County	325-573-3551	Snyder	325-573-3546	DM Cogdell Memorial	325-573-6374
Sterling County	325-378-4771	Sterling City			
Nolan County	325-235-5471	Sweetwater	325-235-8130	Rolling Plains Memorial	325-235-1701
Culberson County	432-283-2060	Van Horn		Culberson Hospital	432-283-2760
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				
Chaves County	575-624-7590				
Ground Ambulance Services					
Reeves County Medical			Pecos, TX	432-447-3551	

Coterra: H2S Plan



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

Coterra: H2S Plan

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 time
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.

Coterra: H2S Plan

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 (SO₂). 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.
2. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Coterra's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

Coterra: H2S Plan

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	Kernit	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	Mertzton			
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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Garza County	806-495-3595	Post			
Upton County	432-693-2422	Rankin			
Coke County	915-453-2717	Robert Lee			
		Roscoe	325-766-3931		
Hockley County	806-894-3126	Levelland	806-894-3155	Covenant Health	806-894-4963
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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				
Chaves County	575-624-7590				
Ground Ambulance Services					
Reeves County Medical		Pecos, TX		432-447-3551	

1. Geological Formations

TVD of target 9,673
MD at TD 20,608

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1091	N/A	
Top of Salt	1570	N/A	
Base of 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	
Wolfcamp	9518	Hydrocarbons	
Wolfcamp - Target	9673	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
14 3/4	0	1050	1050	10-3/4"	40.50	J-55	BT&C	3.47	6.88	14.79
9 7/8	0	10058	9633	7-5/8"	29.70	L-80	BT&C	3.01	1.45	2.32
6 3/4	0	9309	9309	5-1/2"	23.00	P-110	BT&C	2.50	2.13	4.16
6 3/4	9309	20608	9673	5"	18.00	P-110	BT&C	2.23	2.26	88.52
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

Request Variance for 5-1/2" x 7-5/8" annular clearance. The portion that does not meet clearance will not be cemented

	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	408	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	109	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	777	10.30	3.64	22.18	12	Lead: Tuned Light + LCM
	198	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Production	1464	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	49
Production	9758	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
9 7/8	13 5/8	10M	Annular	X	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		
6 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 10058'	Brine Diesel Emulsion	9.00 - 9.50	30-35	N/C
10058' to 20608'	OBM	11.50 - 12.00	50-70	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.

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.

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 from TD 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	6035 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: Well Control Plan



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.

Coterra: Well Control Plan

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.

Coterra: Well Control Plan

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

Coterra: Well Control Plan

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).

Coterra: Well Control Plan

- 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.

Coterra Energy

Eddy County, NM (NAD 83)
Riverbend 14 Federal Com
Riverbend 14 Federal Com 7H

OH

Plan: Plan 4



Standard Plan Report

16 December, 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 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	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 7H					
Well Position	+N/-S	0.00 usft	Northing:	414,092.29 usft	Latitude:	32.1381247
	+E/-W	0.00 usft	Easting:	625,746.85 usft	Longitude:	-104.0606254
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	2,936.00 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 4				
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	12/16/2025			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,610.60	Plan 4 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Planned Survey Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	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	180.00	749.68	-10.90	0.00	2.00	2.00	0.00	180.00	
1,001.27	5.00	180.00	1,000.00	-32.80	0.00	0.00	0.00	0.00	0.00	
1,743.11	14.76	98.69	1,732.27	-79.68	93.97	2.00	1.32	-10.96	-100.33	
7,832.26	14.76	98.69	7,620.37	-314.22	1,627.92	0.00	0.00	0.00	0.00	
9,308.69	0.00	0.00	9,080.52	-342.81	1,814.93	1.00	-1.00	0.00	180.00	
10,058.69	75.00	179.75	9,633.95	-767.47	1,816.78	10.00	10.00	0.00	179.75	
10,358.69	90.00	179.74	9,673.00	-1,064.05	1,818.10	5.00	5.00	0.00	-0.04	
14,083.65	90.00	179.74	9,673.00	-4,788.97	1,835.00	0.00	0.00	0.00	0.00	
16,138.65	90.00	1.16	9,673.00	-4,799.33	3,153.52	8.69	0.00	-8.69	270.00	
16,209.35	90.00	359.75	9,673.00	-4,728.64	3,154.08	2.00	0.00	-2.00	-90.00	
20,610.93	90.00	359.75	9,673.00	-327.10	3,134.61	0.00	0.00	0.00	0.00	

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
0.00	0.00	0.00	0.00	0.00	0.00	414,092.29	625,746.85	32.1381247	-104.0606254	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	414,092.29	625,746.85	32.1381247	-104.0606254	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	414,092.29	625,746.85	32.1381247	-104.0606254	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	414,092.29	625,746.85	32.1381247	-104.0606254	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	414,092.29	625,746.85	32.1381247	-104.0606254	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	414,092.29	625,746.85	32.1381247	-104.0606254	0.00	0.00	0.00	0.00
Start Build 2.00													
600.00	2.00	180.00	599.98	-1.75	0.00	414,090.54	625,746.85	32.1381199	-104.0606255	1.75	2.00	2.00	0.00
700.00	4.00	180.00	699.84	-6.98	0.00	414,085.31	625,746.85	32.1381055	-104.0606255	6.98	2.00	2.00	0.00
750.00	5.00	180.00	749.68	-10.90	0.00	414,081.39	625,746.85	32.1380947	-104.0606255	10.90	2.00	2.00	0.00
800.00	5.00	180.00	799.49	-15.26	0.00	414,077.03	625,746.85	32.1380828	-104.0606256	15.26	0.00	0.00	0.00
900.00	5.00	180.00	899.11	-23.97	0.00	414,068.32	625,746.85	32.1380588	-104.0606256	23.97	0.00	0.00	0.00
1,001.27	5.00	180.00	1,000.00	-32.80	0.00	414,059.49	625,746.85	32.1380345	-104.0606257	32.80	0.00	0.00	0.00
Start DLS 2.00 TFO -100.33													
1,092.61	5.01	158.93	1,091.00	-40.50	1.43	414,051.79	625,748.28	32.1380134	-104.0606211	40.51	2.00	0.01	-23.06
Rustler													
1,100.00	5.03	157.28	1,098.36	-41.10	1.67	414,051.19	625,748.52	32.1380117	-104.0606204	41.11	2.00	0.40	-22.40
1,200.00	5.80	137.56	1,197.92	-48.88	6.78	414,043.41	625,753.63	32.1379903	-104.0606039	48.91	2.00	0.76	-19.72
1,300.00	7.06	123.62	1,297.29	-56.01	15.31	414,036.28	625,762.16	32.1379706	-104.0605764	56.08	2.00	1.26	-13.94
1,400.00	8.61	114.27	1,396.36	-62.49	27.25	414,029.80	625,774.10	32.1379527	-104.0605379	62.61	2.00	1.55	-9.35
1,500.00	10.31	107.86	1,495.00	-68.32	42.60	414,023.97	625,789.45	32.1379366	-104.0604884	68.50	2.00	1.70	-6.41
1,576.40	11.68	104.24	1,570.00	-72.32	56.61	414,019.97	625,803.46	32.1379255	-104.0604432	72.56	2.00	1.79	-4.74
Top Salt													

Planned Survey Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	.Total Directional Production DB

Planned Survey													
Measured	INC		Vertical	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical	Dogleg	Build	Turn
Depth (usft)	INC (°)	AZI (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
1,600.00	12.11	103.29	1,593.09	-73.47	61.33	414,018.82	625,808.18	32.1379223	-104.0604279	73.74	2.00	1.82	-4.04
1,700.00	13.96	99.90	1,690.51	-77.95	83.41	414,014.34	625,830.26	32.1379098	-104.0603566	78.32	2.00	1.85	-3.39
1,743.11	14.76	98.69	1,732.27	-79.68	93.97	414,012.61	625,840.82	32.1379050	-104.0603225	80.09	2.00	1.88	-2.79
1,800.00	14.76	98.69	1,787.29	-81.87	108.30	414,010.42	625,855.15	32.1378989	-104.0602762	82.34	0.00	0.00	0.00
1,900.00	14.76	98.69	1,883.98	-85.72	133.49	414,006.57	625,880.34	32.1378881	-104.0601949	86.30	0.00	0.00	0.00
2,000.00	14.76	98.69	1,980.68	-89.57	158.68	414,002.72	625,905.53	32.1378774	-104.0601135	90.26	0.00	0.00	0.00
2,100.00	14.76	98.69	2,077.38	-93.42	183.87	413,998.87	625,930.72	32.1378666	-104.0600322	94.23	0.00	0.00	0.00
2,200.00	14.76	98.69	2,174.08	-97.28	209.06	413,995.01	625,955.91	32.1378558	-104.0599508	98.19	0.00	0.00	0.00
2,300.00	14.76	98.69	2,270.78	-101.13	234.26	413,991.16	625,981.11	32.1378451	-104.0598694	102.15	0.00	0.00	0.00
2,394.34	14.76	98.69	2,362.00	-104.76	258.02	413,987.53	626,004.87	32.1378349	-104.0597927	105.89	0.00	0.00	0.00
Base Salt/Lamar													
2,400.00	14.76	98.69	2,367.48	-104.98	259.45	413,987.31	626,006.30	32.1378343	-104.0597881	106.11	0.00	0.00	0.00
2,500.00	14.76	98.69	2,464.17	-108.83	284.64	413,983.46	626,031.49	32.1378236	-104.0597067	110.07	0.00	0.00	0.00
2,588.76	14.76	98.69	2,550.00	-112.25	307.00	413,980.04	626,053.85	32.1378140	-104.0596345	113.59	0.00	0.00	0.00
Top Delaware Sands/Bell Canyon													
2,600.00	14.76	98.69	2,560.87	-112.68	309.83	413,979.61	626,056.68	32.1378128	-104.0596254	114.03	0.00	0.00	0.00
2,700.00	14.76	98.69	2,657.57	-116.54	335.02	413,975.75	626,081.87	32.1378020	-104.0595440	118.00	0.00	0.00	0.00
2,800.00	14.76	98.69	2,754.27	-120.39	360.21	413,971.90	626,107.06	32.1377913	-104.0594627	121.96	0.00	0.00	0.00
2,900.00	14.76	98.69	2,850.97	-124.24	385.41	413,968.05	626,132.26	32.1377805	-104.0593813	125.92	0.00	0.00	0.00
3,000.00	14.76	98.69	2,947.66	-128.09	410.60	413,964.20	626,157.45	32.1377697	-104.0593000	129.88	0.00	0.00	0.00
3,100.00	14.76	98.69	3,044.36	-131.94	435.79	413,960.35	626,182.64	32.1377590	-104.0592186	133.84	0.00	0.00	0.00
3,200.00	14.76	98.69	3,141.06	-135.79	460.98	413,956.50	626,207.83	32.1377482	-104.0591372	137.80	0.00	0.00	0.00
3,300.00	14.76	98.69	3,237.76	-139.65	486.17	413,952.64	626,233.02	32.1377374	-104.0590559	141.77	0.00	0.00	0.00
3,400.00	14.76	98.69	3,334.46	-143.50	511.36	413,948.79	626,258.21	32.1377267	-104.0589745	145.73	0.00	0.00	0.00
3,493.63	14.76	98.69	3,425.00	-147.10	534.95	413,945.19	626,281.80	32.1377166	-104.0588984	149.44	0.00	0.00	0.00
Cherry Canyon													
3,500.00	14.76	98.69	3,431.16	-147.35	536.56	413,944.94	626,283.41	32.1377159	-104.0588932	149.69	0.00	0.00	0.00
3,600.00	14.76	98.69	3,527.85	-151.20	561.75	413,941.09	626,308.60	32.1377051	-104.0588118	153.65	0.00	0.00	0.00
3,700.00	14.76	98.69	3,624.55	-155.05	586.94	413,937.24	626,333.79	32.1376944	-104.0587305	157.61	0.00	0.00	0.00
3,800.00	14.76	98.69	3,721.25	-158.90	612.13	413,933.39	626,358.98	32.1376836	-104.0586491	161.57	0.00	0.00	0.00
3,900.00	14.76	98.69	3,817.95	-162.76	637.32	413,929.53	626,384.17	32.1376729	-104.0585678	165.54	0.00	0.00	0.00
4,000.00	14.76	98.69	3,914.65	-166.61	662.51	413,925.68	626,409.36	32.1376621	-104.0584864	169.50	0.00	0.00	0.00
4,100.00	14.76	98.69	4,011.35	-170.46	687.71	413,921.83	626,434.56	32.1376513	-104.0584050	173.46	0.00	0.00	0.00
4,200.00	14.76	98.69	4,108.04	-174.31	712.90	413,917.98	626,459.75	32.1376406	-104.0583237	177.42	0.00	0.00	0.00
4,300.00	14.76	98.69	4,204.74	-178.16	738.09	413,914.13	626,484.94	32.1376298	-104.0582423	181.38	0.00	0.00	0.00
4,400.00	14.76	98.69	4,301.44	-182.02	763.28	413,910.27	626,510.13	32.1376190	-104.0581610	185.34	0.00	0.00	0.00
4,500.00	14.76	98.69	4,398.14	-185.87	788.47	413,906.42	626,535.32	32.1376083	-104.0580796	189.31	0.00	0.00	0.00
4,600.00	14.76	98.69	4,494.84	-189.72	813.66	413,902.57	626,560.51	32.1375975	-104.0579983	193.27	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	.Total Directional Production DB

Planned Survey													
Measured			Vertical	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical	Dogleg	Build	Turn
Depth	INC	AZI	Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(°)	(usft)	(*100usft)	(*100usft)	(*100usft)
4,700.00	14.76	98.69	4,591.53	-193.57	838.86	413,898.72	626,585.71	32.1375867	-104.0579169	197.23	0.00	0.00	0.00
4,800.00	14.76	98.69	4,688.23	-197.42	864.05	413,894.87	626,610.90	32.1375760	-104.0578356	201.19	0.00	0.00	0.00
4,840.09	14.76	98.69	4,727.00	-198.97	874.15	413,893.32	626,621.00	32.1375717	-104.0578029	202.78	0.00	0.00	0.00
Brushy Canyon													
4,900.00	14.76	98.69	4,784.93	-201.27	889.24	413,891.02	626,636.09	32.1375652	-104.0577542	205.15	0.00	0.00	0.00
5,000.00	14.76	98.69	4,881.63	-205.13	914.43	413,887.16	626,661.28	32.1375544	-104.0576728	209.11	0.00	0.00	0.00
5,100.00	14.76	98.69	4,978.33	-208.98	939.62	413,883.31	626,686.47	32.1375437	-104.0575915	213.08	0.00	0.00	0.00
5,200.00	14.76	98.69	5,075.03	-212.83	964.82	413,879.46	626,711.67	32.1375329	-104.0575101	217.04	0.00	0.00	0.00
5,300.00	14.76	98.69	5,171.72	-216.68	990.01	413,875.61	626,736.86	32.1375221	-104.0574288	221.00	0.00	0.00	0.00
5,400.00	14.76	98.69	5,268.42	-220.53	1,015.20	413,871.76	626,762.05	32.1375114	-104.0573474	224.96	0.00	0.00	0.00
5,500.00	14.76	98.69	5,365.12	-224.38	1,040.39	413,867.91	626,787.24	32.1375006	-104.0572661	228.92	0.00	0.00	0.00
5,600.00	14.76	98.69	5,461.82	-228.24	1,065.58	413,864.05	626,812.43	32.1374898	-104.0571847	232.88	0.00	0.00	0.00
5,700.00	14.76	98.69	5,558.52	-232.09	1,090.77	413,860.20	626,837.62	32.1374791	-104.0571034	236.85	0.00	0.00	0.00
5,800.00	14.76	98.69	5,655.21	-235.94	1,115.97	413,856.35	626,862.82	32.1374683	-104.0570220	240.81	0.00	0.00	0.00
5,815.29	14.76	98.69	5,670.00	-236.53	1,119.82	413,855.76	626,866.67	32.1374667	-104.0570096	241.41	0.00	0.00	0.00
Lower Brushy Canyon													
5,900.00	14.76	98.69	5,751.91	-239.79	1,141.16	413,852.50	626,888.01	32.1374575	-104.0569406	244.77	0.00	0.00	0.00
6,000.00	14.76	98.69	5,848.61	-243.64	1,166.35	413,848.65	626,913.20	32.1374468	-104.0568593	248.73	0.00	0.00	0.00
6,100.00	14.76	98.69	5,945.31	-247.49	1,191.54	413,844.80	626,938.39	32.1374360	-104.0567779	252.69	0.00	0.00	0.00
6,200.00	14.76	98.69	6,042.01	-251.35	1,216.73	413,840.94	626,963.58	32.1374252	-104.0566966	256.65	0.00	0.00	0.00
6,300.00	14.76	98.69	6,138.71	-255.20	1,241.92	413,837.09	626,988.77	32.1374145	-104.0566152	260.61	0.00	0.00	0.00
6,400.00	14.76	98.69	6,235.40	-259.05	1,267.12	413,833.24	627,013.97	32.1374037	-104.0565339	264.58	0.00	0.00	0.00
6,500.00	14.76	98.69	6,332.10	-262.90	1,292.31	413,829.39	627,039.16	32.1373930	-104.0564525	268.54	0.00	0.00	0.00
6,501.96	14.76	98.69	6,334.00	-262.98	1,292.80	413,829.31	627,039.65	32.1373927	-104.0564509	268.62	0.00	0.00	0.00
Bone Spring Lime													
6,600.00	14.76	98.69	6,428.80	-266.75	1,317.50	413,825.54	627,064.35	32.1373822	-104.0563712	272.50	0.00	0.00	0.00
6,700.00	14.76	98.69	6,525.50	-270.61	1,342.69	413,821.68	627,089.54	32.1373714	-104.0562898	276.46	0.00	0.00	0.00
6,800.00	14.76	98.69	6,622.20	-274.46	1,367.88	413,817.83	627,114.73	32.1373607	-104.0562084	280.42	0.00	0.00	0.00
6,900.00	14.76	98.69	6,718.89	-278.31	1,393.07	413,813.98	627,139.92	32.1373499	-104.0561271	284.38	0.00	0.00	0.00
7,000.00	14.76	98.69	6,815.59	-282.16	1,418.27	413,810.13	627,165.12	32.1373391	-104.0560457	288.35	0.00	0.00	0.00
7,100.00	14.76	98.69	6,912.29	-286.01	1,443.46	413,806.28	627,190.31	32.1373284	-104.0559644	292.31	0.00	0.00	0.00
7,200.00	14.76	98.69	7,008.99	-289.86	1,468.65	413,802.43	627,215.50	32.1373176	-104.0558830	296.27	0.00	0.00	0.00
7,300.00	14.76	98.69	7,105.69	-293.72	1,493.84	413,798.57	627,240.69	32.1373068	-104.0558017	300.23	0.00	0.00	0.00
7,400.00	14.76	98.69	7,202.39	-297.57	1,519.03	413,794.72	627,265.88	32.1372961	-104.0557203	304.19	0.00	0.00	0.00
7,459.58	14.76	98.69	7,260.00	-299.86	1,534.04	413,792.43	627,280.89	32.1372896	-104.0556718	306.55	0.00	0.00	0.00
1st Bone Spring Sand													
7,500.00	14.76	98.69	7,299.08	-301.42	1,544.22	413,790.87	627,291.07	32.1372853	-104.0556390	308.15	0.00	0.00	0.00
7,600.00	14.76	98.69	7,395.78	-305.27	1,569.42	413,787.02	627,316.27	32.1372745	-104.0555576	312.12	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	.Total Directional Production DB

Planned Survey													
Measured			Vertical	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical	Dogleg	Build	Turn
Depth	INC	AZI	Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(°)	(usft)	(%/100usft)	(%/100usft)	(%/100usft)
7,700.00	14.76	98.69	7,492.48	-309.12	1,594.61	413,783.17	627,341.46	32.1372638	-104.0554762	316.08	0.00	0.00	0.00
7,800.00	14.76	98.69	7,589.18	-312.97	1,619.80	413,779.32	627,366.65	32.1372530	-104.0553949	320.04	0.00	0.00	0.00
7,832.26	14.76	98.69	7,620.37	-314.22	1,627.93	413,778.07	627,374.78	32.1372495	-104.0553686	321.32	0.00	0.00	0.00
Start Drop -1.00													
7,900.00	14.09	98.69	7,685.98	-316.77	1,644.61	413,775.52	627,391.46	32.1372424	-104.0553148	323.94	1.00	-1.00	0.00
8,000.00	13.09	98.69	7,783.18	-320.32	1,667.83	413,771.97	627,414.68	32.1372325	-104.0552398	327.59	1.00	-1.00	0.00
8,100.00	12.09	98.69	7,880.77	-323.61	1,689.37	413,768.68	627,436.22	32.1372233	-104.0551702	330.98	1.00	-1.00	0.00
8,164.58	11.44	98.69	7,944.00	-325.60	1,702.39	413,766.69	627,449.24	32.1372177	-104.0551282	333.03	1.00	-1.00	0.00
2nd Bone Spring Sand													
8,200.00	11.09	98.69	7,978.73	-326.65	1,709.23	413,765.64	627,456.07	32.1372148	-104.0551061	334.10	1.00	-1.00	0.00
8,300.00	10.09	98.69	8,077.03	-329.42	1,727.39	413,762.87	627,474.24	32.1372070	-104.0550474	336.96	1.00	-1.00	0.00
8,400.00	9.09	98.69	8,175.63	-331.94	1,743.85	413,760.35	627,490.70	32.1372000	-104.0549943	339.55	1.00	-1.00	0.00
8,500.00	8.09	98.69	8,274.51	-334.20	1,758.61	413,758.09	627,505.46	32.1371937	-104.0549466	341.87	1.00	-1.00	0.00
8,529.78	7.79	98.69	8,304.00	-334.82	1,762.67	413,757.47	627,509.52	32.1371919	-104.0549335	342.51	1.00	-1.00	0.00
3rd Bone Spring Carb													
8,600.00	7.09	98.69	8,373.63	-336.19	1,771.66	413,756.10	627,518.51	32.1371881	-104.0549045	343.92	1.00	-1.00	0.00
8,700.00	6.09	98.69	8,472.97	-337.93	1,783.00	413,754.36	627,529.85	32.1371832	-104.0548679	345.70	1.00	-1.00	0.00
8,800.00	5.09	98.69	8,572.50	-339.40	1,792.62	413,752.89	627,539.47	32.1371791	-104.0548368	347.22	1.00	-1.00	0.00
8,900.00	4.09	98.69	8,672.17	-340.61	1,800.53	413,751.68	627,547.38	32.1371757	-104.0548112	348.46	1.00	-1.00	0.00
8,914.86	3.94	98.69	8,687.00	-340.77	1,801.56	413,751.52	627,548.41	32.1371753	-104.0548079	348.62	1.00	-1.00	0.00
Harkey SS													
9,000.00	3.09	98.69	8,771.98	-341.55	1,806.71	413,750.74	627,553.56	32.1371731	-104.0547913	349.43	1.00	-1.00	0.00
9,100.00	2.09	98.69	8,871.87	-342.24	1,811.17	413,750.05	627,558.02	32.1371712	-104.0547769	350.14	1.00	-1.00	0.00
9,200.00	1.09	98.69	8,971.83	-342.65	1,813.91	413,749.64	627,560.76	32.1371700	-104.0547680	350.57	1.00	-1.00	0.00
9,308.69	0.00	0.00	9,080.52	-342.81	1,814.93	413,749.48	627,561.78	32.1371696	-104.0547647	350.73	1.00	-1.00	-90.80
Start Build 10.00													
9,350.00	4.13	179.75	9,121.79	-344.30	1,814.94	413,747.99	627,561.79	32.1371655	-104.0547647	352.21	10.00	10.00	435.12
9,384.39	7.57	179.75	9,156.00	-347.80	1,814.95	413,744.49	627,561.80	32.1371559	-104.0547647	355.72	10.00	10.00	0.00
3rd Bone Spring Sand													
9,400.00	9.13	179.75	9,171.44	-350.07	1,814.96	413,742.22	627,561.81	32.1371496	-104.0547647	357.99	10.00	10.00	0.00
9,450.00	14.13	179.75	9,220.40	-360.15	1,815.01	413,732.14	627,561.86	32.1371219	-104.0547646	368.06	10.00	10.00	0.00
9,500.00	19.13	179.75	9,268.29	-374.45	1,815.07	413,717.84	627,561.92	32.1370826	-104.0547645	382.37	10.00	10.00	0.00
9,550.00	24.13	179.75	9,314.76	-392.88	1,815.15	413,699.41	627,562.00	32.1370320	-104.0547644	400.79	10.00	10.00	0.00
9,600.00	29.13	179.75	9,359.44	-415.28	1,815.25	413,677.01	627,562.10	32.1369704	-104.0547643	423.20	10.00	10.00	0.00
9,650.00	34.13	179.75	9,402.00	-441.50	1,815.36	413,650.79	627,562.21	32.1368983	-104.0547642	449.41	10.00	10.00	0.00
9,700.00	39.13	179.75	9,442.11	-471.32	1,815.49	413,620.97	627,562.34	32.1368163	-104.0547640	479.24	10.00	10.00	0.00
9,750.00	44.13	179.75	9,479.47	-504.52	1,815.64	413,587.77	627,562.49	32.1367250	-104.0547638	512.44	10.00	10.00	0.00
9,800.00	49.13	179.75	9,513.79	-540.86	1,815.79	413,551.43	627,562.64	32.1366252	-104.0547636	548.78	10.00	10.00	0.00

Planned Survey Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	.Total Directional Production DB

Planned Survey													
Measured			Vertical	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical	Dogleg	Build	Turn
Depth	INC	AZI	Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(°)	(usft)	(*100usft)	(*100usft)	(*100usft)
9,806.47	49.78	179.75	9,518.00	-545.78	1,815.82	413,546.51	627,562.67	32.1366116	-104.0547636	553.69	10.00	10.00	0.00
WFMP													
9,850.00	54.13	179.75	9,544.82	-580.05	1,815.97	413,512.24	627,562.82	32.1365174	-104.0547634	587.97	10.00	10.00	0.00
9,900.00	59.13	179.75	9,572.31	-621.79	1,816.15	413,470.50	627,563.00	32.1364027	-104.0547631	629.71	10.00	10.00	0.00
9,950.00	64.13	179.75	9,596.06	-665.77	1,816.34	413,426.52	627,563.19	32.1362818	-104.0547629	673.69	10.00	10.00	0.00
10,000.00	69.13	179.75	9,615.89	-711.66	1,816.54	413,380.63	627,563.39	32.1361556	-104.0547626	719.58	10.00	10.00	0.00
10,050.00	74.13	179.75	9,631.64	-759.09	1,816.75	413,333.20	627,563.60	32.1360252	-104.0547623	767.01	10.00	10.00	0.00
10,058.69	75.00	179.75	9,633.95	-767.47	1,816.78	413,324.82	627,563.63	32.1360022	-104.0547623	775.39	10.00	10.00	0.00
Start DLS 5.00 TFO -0.04													
10,100.00	77.07	179.75	9,643.92	-807.56	1,816.96	413,284.73	627,563.81	32.1358920	-104.0547621	815.48	5.00	5.00	0.00
10,200.00	82.07	179.75	9,662.03	-905.87	1,817.39	413,186.42	627,564.24	32.1356218	-104.0547615	913.79	5.00	5.00	0.00
10,300.00	87.07	179.74	9,671.50	-1,005.39	1,817.84	413,086.90	627,564.69	32.1353482	-104.0547609	1,013.31	5.00	5.00	0.00
10,357.28	89.93	179.74	9,673.00	-1,062.64	1,818.10	413,029.65	627,564.95	32.1351908	-104.0547605	1,070.57	5.00	5.00	0.00
WFMP Z LZ													
10,358.69	90.00	179.74	9,673.00	-1,064.05	1,818.10	413,028.24	627,564.95	32.1351869	-104.0547605	1,071.98	5.00	5.00	0.00
10,400.00	90.00	179.74	9,673.00	-1,105.36	1,818.29	412,986.93	627,565.14	32.1350734	-104.0547602	1,113.28	0.00	0.00	0.00
10,500.00	90.00	179.74	9,673.00	-1,205.36	1,818.74	412,886.93	627,565.59	32.1347985	-104.0547596	1,213.28	0.00	0.00	0.00
10,600.00	90.00	179.74	9,673.00	-1,305.36	1,819.20	412,786.93	627,566.05	32.1345236	-104.0547590	1,313.28	0.00	0.00	0.00
10,700.00	90.00	179.74	9,673.00	-1,405.36	1,819.65	412,686.93	627,566.50	32.1342487	-104.0547584	1,413.28	0.00	0.00	0.00
10,800.00	90.00	179.74	9,673.00	-1,505.36	1,820.10	412,586.93	627,566.95	32.1339738	-104.0547577	1,513.28	0.00	0.00	0.00
10,900.00	90.00	179.74	9,673.00	-1,605.36	1,820.56	412,486.93	627,567.41	32.1336989	-104.0547571	1,613.28	0.00	0.00	0.00
11,000.00	90.00	179.74	9,673.00	-1,705.35	1,821.01	412,386.94	627,567.86	32.1334240	-104.0547565	1,713.28	0.00	0.00	0.00
11,100.00	90.00	179.74	9,673.00	-1,805.35	1,821.47	412,286.94	627,568.32	32.1331491	-104.0547558	1,813.28	0.00	0.00	0.00
11,200.00	90.00	179.74	9,673.00	-1,905.35	1,821.92	412,186.94	627,568.77	32.1328742	-104.0547552	1,913.28	0.00	0.00	0.00
11,300.00	90.00	179.74	9,673.00	-2,005.35	1,822.37	412,086.94	627,569.22	32.1325994	-104.0547546	2,013.28	0.00	0.00	0.00
11,400.00	90.00	179.74	9,673.00	-2,105.35	1,822.83	411,986.94	627,569.68	32.1323245	-104.0547539	2,113.28	0.00	0.00	0.00
11,500.00	90.00	179.74	9,673.00	-2,205.35	1,823.28	411,886.94	627,570.13	32.1320496	-104.0547533	2,213.28	0.00	0.00	0.00
11,600.00	90.00	179.74	9,673.00	-2,305.35	1,823.73	411,786.94	627,570.58	32.1317747	-104.0547527	2,313.28	0.00	0.00	0.00
11,700.00	90.00	179.74	9,673.00	-2,405.35	1,824.19	411,686.94	627,571.04	32.1314998	-104.0547521	2,413.28	0.00	0.00	0.00
11,800.00	90.00	179.74	9,673.00	-2,505.35	1,824.64	411,586.94	627,571.49	32.1312249	-104.0547514	2,513.28	0.00	0.00	0.00
11,900.00	90.00	179.74	9,673.00	-2,605.35	1,825.09	411,486.94	627,571.94	32.1309500	-104.0547508	2,613.28	0.00	0.00	0.00
12,000.00	90.00	179.74	9,673.00	-2,705.34	1,825.55	411,386.95	627,572.40	32.1306751	-104.0547502	2,713.28	0.00	0.00	0.00
12,100.00	90.00	179.74	9,673.00	-2,805.34	1,826.00	411,286.95	627,572.85	32.1304002	-104.0547495	2,813.28	0.00	0.00	0.00
12,200.00	90.00	179.74	9,673.00	-2,905.34	1,826.46	411,186.95	627,573.31	32.1301253	-104.0547489	2,913.28	0.00	0.00	0.00
12,300.00	90.00	179.74	9,673.00	-3,005.34	1,826.91	411,086.95	627,573.76	32.1298504	-104.0547483	3,013.28	0.00	0.00	0.00
12,400.00	90.00	179.74	9,673.00	-3,105.34	1,827.36	410,986.95	627,574.21	32.1295755	-104.0547476	3,113.28	0.00	0.00	0.00
12,500.00	90.00	179.74	9,673.00	-3,205.34	1,827.82	410,886.95	627,574.67	32.1293006	-104.0547470	3,213.28	0.00	0.00	0.00
12,600.00	90.00	179.74	9,673.00	-3,305.34	1,828.27	410,786.95	627,575.12	32.1290258	-104.0547464	3,313.28	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	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)	
12,700.00	90.00	179.74	9,673.00	-3,405.34	1,828.72	410,686.95	627,575.57	32.1287509	-104.0547458	3,413.28	0.00	0.00	0.00	
12,800.00	90.00	179.74	9,673.00	-3,505.34	1,829.18	410,586.95	627,576.03	32.1284760	-104.0547451	3,513.28	0.00	0.00	0.00	
12,900.00	90.00	179.74	9,673.00	-3,605.34	1,829.63	410,486.95	627,576.48	32.1282011	-104.0547445	3,613.28	0.00	0.00	0.00	
13,000.00	90.00	179.74	9,673.00	-3,705.33	1,830.08	410,386.96	627,576.93	32.1279262	-104.0547439	3,713.28	0.00	0.00	0.00	
13,100.00	90.00	179.74	9,673.00	-3,805.33	1,830.54	410,286.96	627,577.39	32.1276513	-104.0547432	3,813.28	0.00	0.00	0.00	
13,200.00	90.00	179.74	9,673.00	-3,905.33	1,830.99	410,186.96	627,577.84	32.1273764	-104.0547426	3,913.28	0.00	0.00	0.00	
13,300.00	90.00	179.74	9,673.00	-4,005.33	1,831.45	410,086.96	627,578.30	32.1271015	-104.0547420	4,013.28	0.00	0.00	0.00	
13,400.00	90.00	179.74	9,673.00	-4,105.33	1,831.90	409,986.96	627,578.75	32.1268266	-104.0547413	4,113.28	0.00	0.00	0.00	
13,500.00	90.00	179.74	9,673.00	-4,205.33	1,832.35	409,886.96	627,579.20	32.1265517	-104.0547407	4,213.28	0.00	0.00	0.00	
13,600.00	90.00	179.74	9,673.00	-4,305.33	1,832.81	409,786.96	627,579.66	32.1262768	-104.0547401	4,313.28	0.00	0.00	0.00	
13,700.00	90.00	179.74	9,673.00	-4,405.33	1,833.26	409,686.96	627,580.11	32.1260019	-104.0547395	4,413.28	0.00	0.00	0.00	
13,800.00	90.00	179.74	9,673.00	-4,505.33	1,833.71	409,586.96	627,580.56	32.1257271	-104.0547388	4,513.28	0.00	0.00	0.00	
13,900.00	90.00	179.74	9,673.00	-4,605.32	1,834.17	409,486.97	627,581.02	32.1254522	-104.0547382	4,613.28	0.00	0.00	0.00	
14,000.00	90.00	179.74	9,673.00	-4,705.32	1,834.62	409,386.97	627,581.47	32.1251773	-104.0547376	4,713.28	0.00	0.00	0.00	
14,083.65	90.00	179.74	9,673.00	-4,788.97	1,835.00	409,303.32	627,581.85	32.1249473	-104.0547370	4,796.93	0.00	0.00	0.00	
Start DLS 8.69 TFO 270.00														
14,100.00	90.00	178.32	9,673.00	-4,805.32	1,835.28	409,286.97	627,582.13	32.1249024	-104.0547363	4,813.28	8.69	0.00	-8.69	
14,150.00	90.00	173.97	9,673.00	-4,855.20	1,838.64	409,237.09	627,585.49	32.1247653	-104.0547258	4,863.17	8.69	0.00	-8.69	
14,200.00	90.00	169.63	9,673.00	-4,904.67	1,845.76	409,187.62	627,592.61	32.1246292	-104.0547032	4,912.68	8.69	0.00	-8.69	
14,250.00	90.00	165.28	9,673.00	-4,953.47	1,856.62	409,138.82	627,603.47	32.1244950	-104.0546686	4,961.52	8.69	0.00	-8.69	
14,300.00	90.00	160.94	9,673.00	-5,001.30	1,871.14	409,090.99	627,617.99	32.1243634	-104.0546221	5,009.42	8.69	0.00	-8.69	
14,350.00	90.00	156.59	9,673.00	-5,047.89	1,889.25	409,044.40	627,636.10	32.1242352	-104.0545640	5,056.09	8.69	0.00	-8.69	
14,400.00	90.00	152.25	9,673.00	-5,092.98	1,910.83	408,999.31	627,657.68	32.1241111	-104.0544946	5,101.27	8.69	0.00	-8.69	
14,450.00	90.00	147.90	9,673.00	-5,136.31	1,935.77	408,955.98	627,682.62	32.1239918	-104.0544144	5,144.70	8.69	0.00	-8.69	
14,500.00	90.00	143.56	9,673.00	-5,177.62	1,963.91	408,914.67	627,710.76	32.1238781	-104.0543239	5,186.14	8.69	0.00	-8.69	
14,550.00	90.00	139.21	9,673.00	-5,216.68	1,995.11	408,875.61	627,741.96	32.1237705	-104.0542234	5,225.33	8.69	0.00	-8.69	
14,600.00	90.00	134.87	9,673.00	-5,253.26	2,029.17	408,839.03	627,776.02	32.1236697	-104.0541137	5,262.06	8.69	0.00	-8.69	
14,650.00	90.00	130.52	9,673.00	-5,287.16	2,065.91	408,805.13	627,812.76	32.1235762	-104.0539953	5,296.12	8.69	0.00	-8.69	
14,654.88	90.00	130.10	9,673.00	-5,290.32	2,069.63	408,801.97	627,816.48	32.1235675	-104.0539833	5,299.30	8.69	0.00	-8.69	
No-Perf Entry : 14654.88' MD														
14,700.00	90.00	126.18	9,673.00	-5,318.17	2,105.11	408,774.12	627,851.96	32.1234907	-104.0538689	5,327.31	8.69	0.00	-8.69	
14,750.00	90.00	121.83	9,673.00	-5,346.13	2,146.55	408,746.16	627,893.40	32.1234135	-104.0537353	5,355.45	8.69	0.00	-8.69	
14,800.00	90.00	117.49	9,673.00	-5,370.87	2,189.99	408,721.42	627,936.84	32.1233452	-104.0535952	5,380.37	8.69	0.00	-8.69	
14,850.00	90.00	113.14	9,673.00	-5,392.25	2,235.18	408,700.04	627,982.03	32.1232861	-104.0534494	5,401.95	8.69	0.00	-8.69	
14,900.00	90.00	108.80	9,673.00	-5,410.14	2,281.85	408,682.15	628,028.70	32.1232366	-104.0532988	5,420.04	8.69	0.00	-8.69	
14,950.00	90.00	104.45	9,673.00	-5,424.44	2,329.75	408,667.85	628,076.60	32.1231969	-104.0531442	5,434.55	8.69	0.00	-8.69	
15,000.00	90.00	100.11	9,673.00	-5,435.07	2,378.60	408,657.22	628,125.45	32.1231674	-104.0529865	5,445.40	8.69	0.00	-8.69	
15,050.00	90.00	95.76	9,673.00	-5,441.98	2,428.11	408,650.31	628,174.96	32.1231480	-104.0528266	5,452.52	8.69	0.00	-8.69	

Planned Survey Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	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)
15,100.00	90.00	91.42	9,673.00	-5,445.11	2,478.00	408,647.18	628,224.85	32.1231391	-104.0526655	5,455.87	8.69	0.00	-8.69
15,150.00	90.00	87.07	9,673.00	-5,444.45	2,527.98	408,647.84	628,274.83	32.1231405	-104.0525040	5,455.43	8.69	0.00	-8.69
15,200.00	90.00	82.73	9,673.00	-5,440.01	2,577.77	408,652.28	628,324.62	32.1231524	-104.0523432	5,451.20	8.69	0.00	-8.69
15,250.00	90.00	78.38	9,673.00	-5,431.81	2,627.08	408,660.48	628,373.93	32.1231746	-104.0521838	5,443.22	8.69	0.00	-8.69
15,300.00	90.00	74.04	9,673.00	-5,419.89	2,675.63	408,672.40	628,422.48	32.1232070	-104.0520269	5,431.51	8.69	0.00	-8.69
15,350.00	90.00	69.69	9,673.00	-5,404.33	2,723.13	408,687.96	628,469.98	32.1232494	-104.0518733	5,416.16	8.69	0.00	-8.69
15,400.00	90.00	65.35	9,673.00	-5,385.22	2,769.32	408,707.07	628,516.17	32.1233016	-104.0517239	5,397.25	8.69	0.00	-8.69
15,450.00	90.00	61.00	9,673.00	-5,362.66	2,813.93	408,729.63	628,560.78	32.1233633	-104.0515797	5,374.89	8.69	0.00	-8.69
15,500.00	90.00	56.66	9,673.00	-5,336.79	2,856.70	408,755.50	628,603.55	32.1234341	-104.0514413	5,349.21	8.69	0.00	-8.69
15,550.00	90.00	52.31	9,673.00	-5,307.76	2,897.39	408,784.53	628,644.24	32.1235136	-104.0513096	5,320.35	8.69	0.00	-8.69
15,587.27	90.00	49.08	9,673.00	-5,284.15	2,926.23	408,808.14	628,673.08	32.1235783	-104.0512163	5,296.87	8.69	0.00	-8.69
No-Perf Exit : 15587.27' MD													
15,600.00	90.00	47.97	9,673.00	-5,275.72	2,935.77	408,816.57	628,682.62	32.1236014	-104.0511854	5,288.48	8.69	0.00	-8.69
15,650.00	90.00	43.62	9,673.00	-5,240.87	2,971.60	408,851.42	628,718.45	32.1236970	-104.0510693	5,253.78	8.69	0.00	-8.69
15,700.00	90.00	39.28	9,673.00	-5,203.40	3,004.69	408,888.89	628,751.54	32.1237997	-104.0509621	5,216.46	8.69	0.00	-8.69
15,750.00	90.00	34.93	9,673.00	-5,163.53	3,034.85	408,928.76	628,781.70	32.1239091	-104.0508644	5,176.73	8.69	0.00	-8.69
15,800.00	90.00	30.59	9,673.00	-5,121.50	3,061.90	408,970.79	628,808.75	32.1240245	-104.0507766	5,134.81	8.69	0.00	-8.69
15,850.00	90.00	26.24	9,673.00	-5,077.53	3,085.69	409,014.76	628,832.54	32.1241451	-104.0506994	5,090.95	8.69	0.00	-8.69
15,900.00	90.00	21.90	9,673.00	-5,031.89	3,106.08	409,060.40	628,852.93	32.1242705	-104.0506332	5,045.40	8.69	0.00	-8.69
15,950.00	90.00	17.55	9,673.00	-4,984.84	3,122.95	409,107.45	628,869.80	32.1243997	-104.0505783	4,998.42	8.69	0.00	-8.69
16,000.00	90.00	13.21	9,673.00	-4,936.64	3,136.21	409,155.65	628,883.06	32.1245321	-104.0505350	4,950.28	8.69	0.00	-8.69
16,050.00	90.00	8.86	9,673.00	-4,887.58	3,145.78	409,204.71	628,892.63	32.1246669	-104.0505037	4,901.26	8.69	0.00	-8.69
16,100.00	90.00	4.52	9,673.00	-4,837.93	3,151.60	409,254.36	628,898.45	32.1248033	-104.0504845	4,851.63	8.69	0.00	-8.69
16,138.65	90.00	1.16	9,673.00	-4,799.33	3,153.52	409,292.96	628,900.37	32.1249094	-104.0504779	4,813.05	8.69	0.00	-8.69
Start DLS 2.00 TFO -90.00													
16,209.35	90.00	359.75	9,673.00	-4,728.64	3,154.08	409,363.65	628,900.93	32.1251037	-104.0504755	4,742.35	2.00	0.00	-2.00
Start 4401.58 hold at 16209.35 MD													
16,300.00	90.00	359.75	9,673.00	-4,637.99	3,153.68	409,454.30	628,900.53	32.1253529	-104.0504761	4,651.70	0.00	0.00	0.00
16,400.00	90.00	359.75	9,673.00	-4,537.99	3,153.23	409,554.30	628,900.08	32.1256278	-104.0504766	4,551.70	0.00	0.00	0.00
16,500.00	90.00	359.75	9,673.00	-4,437.99	3,152.79	409,654.30	628,899.64	32.1259027	-104.0504772	4,451.70	0.00	0.00	0.00
16,600.00	90.00	359.75	9,673.00	-4,337.99	3,152.35	409,754.30	628,899.20	32.1261776	-104.0504778	4,351.70	0.00	0.00	0.00
16,700.00	90.00	359.75	9,673.00	-4,237.99	3,151.91	409,854.30	628,898.76	32.1264525	-104.0504784	4,251.70	0.00	0.00	0.00
16,800.00	90.00	359.75	9,673.00	-4,137.99	3,151.47	409,954.30	628,898.32	32.1267274	-104.0504790	4,151.70	0.00	0.00	0.00
16,900.00	90.00	359.75	9,673.00	-4,037.99	3,151.02	410,054.30	628,897.87	32.1270023	-104.0504795	4,051.70	0.00	0.00	0.00
17,000.00	90.00	359.75	9,673.00	-3,937.99	3,150.58	410,154.30	628,897.43	32.1272772	-104.0504801	3,951.70	0.00	0.00	0.00
17,100.00	90.00	359.75	9,673.00	-3,837.99	3,150.14	410,254.30	628,896.99	32.1275521	-104.0504807	3,851.70	0.00	0.00	0.00
17,200.00	90.00	359.75	9,673.00	-3,737.99	3,149.70	410,354.30	628,896.55	32.1278270	-104.0504813	3,751.70	0.00	0.00	0.00
17,300.00	90.00	359.75	9,673.00	-3,638.00	3,149.25	410,454.29	628,896.10	32.1281018	-104.0504819	3,651.70	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	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)
17,400.00	90.00	359.75	9,673.00	-3,538.00	3,148.81	410,554.29	628,895.66	32.1283767	-104.0504824	3,551.70	0.00	0.00	0.00
17,500.00	90.00	359.75	9,673.00	-3,438.00	3,148.37	410,654.29	628,895.22	32.1286516	-104.0504830	3,451.70	0.00	0.00	0.00
17,600.00	90.00	359.75	9,673.00	-3,338.00	3,147.93	410,754.29	628,894.78	32.1289265	-104.0504836	3,351.70	0.00	0.00	0.00
17,700.00	90.00	359.75	9,673.00	-3,238.00	3,147.48	410,854.29	628,894.33	32.1292014	-104.0504842	3,251.70	0.00	0.00	0.00
17,800.00	90.00	359.75	9,673.00	-3,138.00	3,147.04	410,954.29	628,893.89	32.1294763	-104.0504848	3,151.70	0.00	0.00	0.00
17,900.00	90.00	359.75	9,673.00	-3,038.00	3,146.60	411,054.29	628,893.45	32.1297512	-104.0504854	3,051.70	0.00	0.00	0.00
18,000.00	90.00	359.75	9,673.00	-2,938.00	3,146.16	411,154.29	628,893.01	32.1300261	-104.0504859	2,951.70	0.00	0.00	0.00
18,100.00	90.00	359.75	9,673.00	-2,838.00	3,145.72	411,254.29	628,892.57	32.1303010	-104.0504865	2,851.70	0.00	0.00	0.00
18,200.00	90.00	359.75	9,673.00	-2,738.00	3,145.27	411,354.29	628,892.12	32.1305759	-104.0504871	2,751.70	0.00	0.00	0.00
18,300.00	90.00	359.75	9,673.00	-2,638.01	3,144.83	411,454.28	628,891.68	32.1308508	-104.0504877	2,651.70	0.00	0.00	0.00
18,400.00	90.00	359.75	9,673.00	-2,538.01	3,144.39	411,554.28	628,891.24	32.1311257	-104.0504883	2,551.70	0.00	0.00	0.00
18,500.00	90.00	359.75	9,673.00	-2,438.01	3,143.95	411,654.28	628,890.80	32.1314006	-104.0504888	2,451.70	0.00	0.00	0.00
18,600.00	90.00	359.75	9,673.00	-2,338.01	3,143.50	411,754.28	628,890.35	32.1316754	-104.0504894	2,351.70	0.00	0.00	0.00
18,700.00	90.00	359.75	9,673.00	-2,238.01	3,143.06	411,854.28	628,889.91	32.1319503	-104.0504900	2,251.70	0.00	0.00	0.00
18,800.00	90.00	359.75	9,673.00	-2,138.01	3,142.62	411,954.28	628,889.47	32.1322252	-104.0504906	2,151.70	0.00	0.00	0.00
18,900.00	90.00	359.75	9,673.00	-2,038.01	3,142.18	412,054.28	628,889.03	32.1325001	-104.0504912	2,051.70	0.00	0.00	0.00
19,000.00	90.00	359.75	9,673.00	-1,938.01	3,141.74	412,154.28	628,888.58	32.1327750	-104.0504917	1,951.70	0.00	0.00	0.00
19,100.00	90.00	359.75	9,673.00	-1,838.01	3,141.29	412,254.28	628,888.14	32.1330499	-104.0504923	1,851.70	0.00	0.00	0.00
19,200.00	90.00	359.75	9,673.00	-1,738.01	3,140.85	412,354.28	628,887.70	32.1333248	-104.0504929	1,751.70	0.00	0.00	0.00
19,300.00	90.00	359.75	9,673.00	-1,638.02	3,140.41	412,454.27	628,887.26	32.1335997	-104.0504935	1,651.70	0.00	0.00	0.00
19,400.00	90.00	359.75	9,673.00	-1,538.02	3,139.97	412,554.27	628,886.82	32.1338746	-104.0504941	1,551.70	0.00	0.00	0.00
19,500.00	90.00	359.75	9,673.00	-1,438.02	3,139.52	412,654.27	628,886.37	32.1341495	-104.0504946	1,451.70	0.00	0.00	0.00
19,600.00	90.00	359.75	9,673.00	-1,338.02	3,139.08	412,754.27	628,885.93	32.1344244	-104.0504952	1,351.70	0.00	0.00	0.00
19,700.00	90.00	359.75	9,673.00	-1,238.02	3,138.64	412,854.27	628,885.49	32.1346993	-104.0504958	1,251.70	0.00	0.00	0.00
19,800.00	90.00	359.75	9,673.00	-1,138.02	3,138.20	412,954.27	628,885.05	32.1349741	-104.0504964	1,151.70	0.00	0.00	0.00
19,900.00	90.00	359.75	9,673.00	-1,038.02	3,137.75	413,054.27	628,884.60	32.1352490	-104.0504970	1,051.70	0.00	0.00	0.00
20,000.00	90.00	359.75	9,673.00	-938.02	3,137.31	413,154.27	628,884.16	32.1355239	-104.0504975	951.70	0.00	0.00	0.00
20,100.00	90.00	359.75	9,673.00	-838.02	3,136.87	413,254.27	628,883.72	32.1357988	-104.0504981	851.70	0.00	0.00	0.00
20,200.00	90.00	359.75	9,673.00	-738.02	3,136.43	413,354.27	628,883.28	32.1360737	-104.0504987	751.70	0.00	0.00	0.00
20,300.00	90.00	359.75	9,673.00	-638.03	3,135.99	413,454.26	628,882.84	32.1363486	-104.0504993	651.70	0.00	0.00	0.00
20,400.00	90.00	359.75	9,673.00	-538.03	3,135.54	413,554.26	628,882.39	32.1366235	-104.0504999	551.70	0.00	0.00	0.00
20,500.00	90.00	359.75	9,673.00	-438.03	3,135.10	413,654.26	628,881.95	32.1368984	-104.0505004	451.70	0.00	0.00	0.00
20,600.00	90.00	359.75	9,673.00	-338.03	3,134.66	413,754.26	628,881.51	32.1371733	-104.0505010	351.70	0.00	0.00	0.00
20,610.93	90.00	359.75	9,673.00	-327.10	3,134.61	413,765.19	628,881.46	32.1372033	-104.0505011	340.77	0.00	0.00	0.00
TD at 20610.93													

Planned Survey Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	.Total Directional Production DB

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
- Shape										
KOP 2 (Riverbend 14 Fe - plan misses target center by 5129.22usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-4,789.97	1,834.41	409,302.32	627,581.26	32.1249446	-104.0547390	
NPZ 2 (Riverbend 14 Fe - plan misses target center by 6041.78usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.01	0.00	-5,288.94	2,920.65	408,803.35	628,667.50	32.1235652	-104.0512343	
LP Crv 2 (Riverbend 14 - plan misses target center by 5727.46usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.01	0.00	-4,780.74	3,154.10	409,311.55	628,900.95	32.1249605	-104.0504759	
Pk Crv 2 (Riverbend 14 - plan misses target center by 5991.21usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.01	0.00	-5,445.20	2,498.87	408,647.09	628,245.72	32.1231387	-104.0525981	
LTP (Riverbend 14 Fede - plan misses target center by 3151.63usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.01	0.00	-327.10	3,134.61	413,765.19	628,881.46	32.1372033	-104.0505011	
FTP (Riverbend 14 Fede - plan misses target center by 1847.02usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-342.81	1,814.93	413,749.48	627,561.78	32.1371696	-104.0547647	
NPZ 1 (Riverbend 14 Fe - plan misses target center by 5686.91usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-5,294.86	2,074.95	408,797.43	627,821.80	32.1235550	-104.0539662	
LPP (Riverbend 14 Fede - plan misses target center by 3504.30usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.01	0.00	-1,555.82	3,139.99	412,536.47	628,886.84	32.1338256	-104.0504941	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,092.61	1,091.00	Rustler				
1,576.40	1,570.00	Top Salt				
2,394.34	2,362.00	Base Salt/Lamar				
2,588.76	2,550.00	Top Delaware Sands/Bell Canyon				
3,493.63	3,425.00	Cherry Canyon				
4,840.09	4,727.00	Brushy Canyon				
5,815.29	5,670.00	Lower Brushy Canyon				
6,501.96	6,334.00	Bone Spring Lime				
7,459.58	7,260.00	1st Bone Spring Sand				
8,164.58	7,944.00	2nd Bone Spring Sand				
8,529.78	8,304.00	3rd Bone Spring Carb				
8,914.86	8,687.00	Harkey SS				
9,384.39	9,156.00	3rd Bone Spring Sand				
9,806.47	9,518.00	WFMP				
10,357.28	9,673.00	WFMP Z LZ				

Planned Survey Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Well:	Riverbend 14 Federal Com 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	.Total Directional Production DB

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500	500	0	0	Start Build 2.00
1001	1000	-33	0	Start DLS 2.00 TFO -100.33
7832	7620	-314	1628	Start Drop -1.00
9309	9081	-343	1815	Start Build 10.00
10,059	9634	-767	1817	Start DLS 5.00 TFO -0.04
14,084	9673	-4789	1835	Start DLS 8.69 TFO 270.00
14,655	9673	-5290	2070	No-Perf Entry : 14654.88' MD
15,587	9673	-5284	2926	No-Perf Exit : 15587.27' MD
16,139	9673	-4799	3154	Start DLS 2.00 TFO -90.00
16,209	9673	-4729	3154	Start 4401.58 hold at 16209.35 MD
20,611	9673	-327	3135	TD at 20610.93

Checked By: _____ Approved By: _____ Date: _____

Coterra Energy

Eddy County, NM (NAD 83)
Riverbend 14 Federal Com
Riverbend 14 Federal Com 7H

OH
Plan 4



Anticollision Report

Minimum Magnetic Interference Warning level is 20' center to center

16 December, 2025

Total Report Version 1.70

COMPASS 5000.16 Build 97

[Click here for our anticollision policy](#)

ATTENTION

All offset data provided was gathered using available software and resources. Total Directional Services cannot guarantee the accuracy of all offset data, which should be verified for accuracy by the Operator.

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Reference	Plan 4		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. CC of 2,000.00usft or Max. SF of 6 or Max. ES of 2,000.00u	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Well	Riverbend 14 Federal Com 7H				
Well Position	+N/-S	0.00 usft	Northing:	414,092.29 usft	Latitude: 32.1381247
	+E/-W	0.00 usft	Easting:	625,746.85 usft	Longitude: -104.0606254
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 2,936.00 usft
Grid Convergence:	0.15 °				

Survey Tool Program	Date	12/16/2025			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,610.60	Plan 4 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Experimental: Summary Highlights: Riverbend 14 Federal Com 7H

At 536.26 MD, Riverbend 14 Federal Com 4H - OH - Plan 1 is 19.99 usft away with a 5.44 SF.

Offset Listing								
Offset Customer - Project - Site Name	Ground Level KB Height		Map Coordinates		Geographical Coordinates		Surface Uncertainty	
	Offset Well		Northing	Easting	Latitude	Longitude	Site	Well
- - Riverbend 11-14								
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
- - Riverbend 12-13 Offsets								
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
- - Riverbend 14 Federal Com								
(O) 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 8H -	2,935.00	2,958.00	414,092.51	625,766.85	32.1381252	-104.0605608	0.00	0.00

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Riverbend 11-14						
Riverbend 11-14 Fed Com 15H - OH - Svy	10,177.20	14,964.66	1,306.80	1,215.11	14.25	CC
Riverbend 11-14 Fed Com 15H - OH - Svy	14,100.00	18,887.13	1,327.45	1,196.12	10.11	ES, SF
Riverbend 11-14 Fed Com 16H - OH - Svy	13,287.71	18,281.89	1,985.04	1,861.40	16.05	CC
Riverbend 11-14 Fed Com 16H - OH - Svy	13,400.00	18,381.00	1,985.60	1,860.74	15.90	ES
Riverbend 11-14 Fed Com 16H - OH - Svy	14,200.00	19,156.00	2,018.36	1,884.01	15.02	SF
Riverbend 11-14 Fed Com 17H - OH - Svy	14,100.00	19,051.82	2,632.57	2,499.87	19.84	CC, ES
Riverbend 11-14 Fed Com 17H - OH - Svy	14,200.00	19,118.35	2,641.10	2,507.40	19.75	SF
Riverbend 11-14 Fed Com 7H - OH - Svy	14,100.00	19,307.07	3,299.90	3,166.73	24.78	CC, ES
Riverbend 11-14 Fed Com 7H - OH - Svy	14,200.00	19,370.95	3,310.24	3,176.07	24.67	SF
Riverbend 14 Fed 2H - OH - OH Svy	0.00	0.00	369.65			
Riverbend 14 Fed 2H - OH - OH Svy	2,103.14	2,078.26	274.82	260.36	18.99	CC, ES
Riverbend 14 Fed 2H - ST01 - ST01 Svy	0.00	0.00	369.65			
Riverbend 14 Fed 2H - ST01 - ST01 Svy	2,103.14	2,078.26	274.82	260.36	18.99	CC, ES
Riverbend 12-13 Offsets						
Malaga 13 DM Fed Com 1H - OH - Svy	15,900.00	13,171.79	1,505.02	1,387.96	12.86	SF
Malaga 13 DM Fed Com 1H - OH - Svy	16,139.26	12,927.04	1,490.80	1,375.80	12.96	CC, ES
Riverbend 14 Federal Com						
(O) Hoss 2-11 W1AP Fed Com #2H - OH - OH	9,669.21	19,907.00	852.14	693.85	5.38	CC, ES
(O) Hoss 2-11 W1AP Fed Com #2H - OH - OH	9,700.00	19,907.00	853.31	694.73	5.38	SF
Riverbend 14 Federal Com 1H - OH - Plan 1	500.00	499.00	59.98	56.57	17.56	CC
Riverbend 14 Federal Com 1H - OH - Plan 1	4,200.00	4,174.15	70.26	39.32	2.27	ES
Riverbend 14 Federal Com 1H - OH - Plan 1	4,500.00	4,473.77	73.89	40.58	2.22	SF
Riverbend 14 Federal Com 3H - OH - Plan 1	500.00	499.00	39.99	36.58	11.71	CC
Riverbend 14 Federal Com 3H - OH - Plan 1	700.00	698.84	40.67	35.87	8.47	ES
Riverbend 14 Federal Com 3H - OH - Plan 1	8,000.00	8,000.00	282.01	221.40	4.65	SF
Riverbend 14 Federal Com 4H - OH - Plan 1	536.26	536.25	19.99	16.32	5.44	CC
Riverbend 14 Federal Com 4H - OH - Plan 1	600.00	599.98	20.05	15.93	4.87	ES
Riverbend 14 Federal Com 4H - OH - Plan 1	14,800.00	15,597.01	216.07	116.83	2.18	SF
Riverbend 14 Federal Com 8H - OH - Plan 1	500.00	499.00	20.00	16.58	5.85	CC
Riverbend 14 Federal Com 8H - OH - Plan 1	600.00	598.87	20.33	16.22	4.94	ES
Riverbend 14 Federal Com 8H - OH - Plan 1	6,200.00	6,200.07	96.41	49.82	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
Measured Reference Depth (usft)	Vertical Reference Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	27.15	27.15	0.00	0.04	2.47	4,645.98	200.34	4,650.30						
100.00	100.00	113.90	113.90	0.28	0.18	2.47	4,646.19	200.10	4,650.53	4,650.08	0.46	N/A			
200.00	200.00	201.00	201.00	0.63	0.32	2.46	4,646.67	199.56	4,651.05	4,650.10	0.95	4,876.318			
300.00	300.00	316.63	316.62	0.99	0.73	2.44	4,647.31	198.24	4,651.56	4,649.84	1.73	2,694.858			
400.00	400.00	429.11	429.07	1.35	1.14	2.42	4,647.49	196.07	4,651.62	4,649.13	2.49	1,870.718			
500.00	500.00	508.39	508.34	1.71	1.42	2.40	4,647.72	194.44	4,651.84	4,648.71	3.13	1,486.755			
600.00	599.98	581.59	581.53	2.05	1.68	-177.62	4,648.39	193.10	4,654.41	4,650.67	3.73	1,246.603			
700.00	699.84	672.56	672.47	2.39	2.01	-177.64	4,649.51	191.39	4,660.79	4,656.39	4.40	1,060.344			
800.00	799.49	797.28	797.16	2.73	2.45	-177.66	4,651.13	189.65	4,670.36	4,665.18	5.18	902.068			
900.00	899.11	917.16	917.03	3.07	2.85	-177.65	4,651.40	191.11	4,679.30	4,673.37	5.92	790.152			
1,000.00	998.73	1,023.45	1,023.30	3.42	3.21	-177.63	4,651.57	193.30	4,688.25	4,681.62	6.63	707.484			

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
1,100.00	1,098.36	1,129.38	1,129.21	3.77	3.57	-154.83	4,651.54	195.58	4,696.65	4,689.31	7.34	640.133		
1,200.00	1,197.92	1,222.69	1,222.51	4.12	3.89	-135.09	4,651.56	197.17	4,704.29	4,696.28	8.01	587.369		
1,300.00	1,297.29	1,329.36	1,329.16	4.48	4.26	-121.19	4,651.54	199.06	4,711.14	4,702.41	8.73	539.558		
1,400.00	1,396.36	1,428.07	1,427.84	4.84	4.60	-111.93	4,651.42	201.25	4,717.12	4,707.69	9.43	500.262		
1,500.00	1,495.00	1,519.69	1,519.44	5.20	4.92	-105.65	4,651.45	203.59	4,722.52	4,712.41	10.11	467.332		
1,600.00	1,593.09	1,633.57	1,633.30	5.56	5.32	-101.32	4,651.34	205.15	4,727.00	4,716.14	10.86	435.184		
1,700.00	1,690.51	1,720.84	1,720.57	5.92	5.63	-98.17	4,651.17	205.44	4,730.70	4,719.17	11.53	410.392		
1,800.00	1,787.29	1,791.16	1,790.89	6.28	5.87	-97.18	4,651.40	205.64	4,734.35	4,722.21	12.14	390.101		
1,900.00	1,883.98	1,881.05	1,880.78	6.65	6.19	-97.46	4,652.00	205.81	4,738.40	4,725.57	12.82	369.563		
2,000.00	1,980.68	2,035.68	2,035.38	7.02	6.74	-97.90	4,652.10	208.41	4,741.99	4,728.25	13.74	345.078		
2,100.00	2,077.38	2,285.76	2,285.34	7.39	7.61	-98.63	4,646.38	211.16	4,743.17	4,728.18	14.99	316.509		
2,200.00	2,174.08	2,348.00	2,347.54	7.77	7.82	-98.81	4,644.08	211.92	4,743.49	4,727.90	15.58	304.449		
2,300.00	2,270.78	2,406.12	2,405.62	8.15	8.03	-98.97	4,642.38	213.10	4,744.69	4,728.52	16.16	293.530		
2,400.00	2,367.48	2,442.00	2,441.49	8.53	8.15	-99.07	4,641.77	214.00	4,747.16	4,730.49	16.67	284.780		
2,500.00	2,464.17	2,494.00	2,493.47	8.92	8.34	-99.22	4,641.63	215.14	4,750.97	4,733.73	17.23	275.692		
2,600.00	2,560.87	2,555.48	2,554.93	9.30	8.55	-99.39	4,642.09	216.25	4,755.84	4,738.01	17.83	266.723		
2,700.00	2,657.57	2,642.00	2,641.44	9.69	8.86	-99.63	4,642.88	218.02	4,761.08	4,742.56	18.52	257.075		
2,800.00	2,754.27	2,724.58	2,723.99	10.08	9.15	-99.86	4,643.84	219.78	4,766.69	4,747.50	19.20	248.314		
2,900.00	2,850.97	2,778.25	2,777.63	10.47	9.34	-100.01	4,644.78	221.15	4,773.00	4,753.23	19.77	241.477		
3,000.00	2,947.66	2,831.00	2,830.32	10.86	9.53	-100.14	4,646.30	223.31	4,780.37	4,760.04	20.33	235.129		
3,100.00	3,044.36	2,899.40	2,898.55	11.25	9.77	-100.30	4,648.83	227.33	4,788.60	4,767.64	20.95	228.530		
3,200.00	3,141.06	2,988.56	2,987.37	11.64	10.09	-100.48	4,652.56	234.21	4,797.29	4,775.64	21.66	221.524		
3,300.00	3,237.76	3,075.66	3,074.05	12.03	10.40	-100.65	4,656.34	241.79	4,806.17	4,783.82	22.35	215.035		
3,400.00	3,334.46	3,159.29	3,157.16	12.43	10.70	-100.80	4,660.28	250.22	4,815.40	4,792.36	23.03	209.067		
3,500.00	3,431.16	3,306.48	3,303.29	12.82	11.22	-101.05	4,667.14	266.55	4,824.68	4,800.72	23.96	201.366		
3,600.00	3,527.85	3,418.09	3,413.99	13.21	11.62	-101.22	4,671.41	280.09	4,833.01	4,808.25	24.75	195.257		
3,700.00	3,624.55	3,516.78	3,511.98	13.61	11.97	-101.38	4,675.00	291.24	4,841.24	4,815.74	25.50	189.885		
3,800.00	3,721.25	3,611.64	3,606.28	14.00	12.31	-101.55	4,678.42	300.91	4,849.54	4,823.31	26.23	184.918		
3,900.00	3,817.95	3,709.37	3,703.24	14.40	12.66	-101.70	4,682.18	312.56	4,858.00	4,831.04	26.97	180.146		
4,000.00	3,914.65	3,820.53	3,813.28	14.79	13.06	-101.84	4,686.31	327.72	4,866.26	4,838.50	27.76	175.289		
4,100.00	4,011.35	3,943.94	3,935.45	15.19	13.51	-102.01	4,690.64	344.71	4,874.36	4,845.76	28.60	170.409		
4,200.00	4,108.04	4,056.15	4,046.72	15.59	13.91	-102.17	4,693.89	358.82	4,881.94	4,852.53	29.40	166.031		
4,300.00	4,204.74	4,152.12	4,142.03	15.98	14.26	-102.32	4,696.52	369.66	4,889.49	4,859.34	30.14	162.218		
4,400.00	4,301.44	4,253.79	4,243.13	16.38	14.63	-102.50	4,699.22	380.14	4,897.07	4,866.16	30.90	158.476		
4,500.00	4,398.14	4,347.30	4,336.14	16.78	14.96	-102.66	4,701.71	389.45	4,904.72	4,873.10	31.63	155.068		
4,600.00	4,494.84	4,445.76	4,434.09	17.17	15.32	-102.84	4,704.35	399.13	4,912.46	4,880.08	32.38	151.726		
4,700.00	4,591.53	4,529.09	4,516.97	17.57	15.62	-102.98	4,706.74	407.34	4,920.41	4,887.34	33.07	148.803		
4,800.00	4,688.23	4,629.29	4,616.64	17.97	15.98	-103.16	4,709.74	417.22	4,928.54	4,894.72	33.82	145.722		
4,900.00	4,784.93	4,721.00	4,707.92	18.37	16.33	-103.32	-197.93	483.03	4,871.66	4,821.44	50.22	97.015		
5,000.00	4,881.63	4,817.00	4,803.92	18.77	16.69	-103.48	-197.93	483.03	4,777.51	4,727.00	50.51	94.578		
5,100.00	4,978.33	4,913.00	4,899.92	19.16	17.05	-103.64	-197.93	483.03	4,683.62	4,632.79	50.82	92.155		
5,200.00	5,075.03	5,009.92	5,000.86	19.56	17.41	-103.80	-220.85	483.28	4,589.87	4,538.57	51.30	89.465		
5,300.00	5,171.72	5,104.64	5,095.58	19.96	17.77	-103.96	-223.18	483.31	4,496.48	4,444.83	51.65	87.054		
5,400.00	5,268.42	5,198.36	5,189.30	20.36	18.13	-104.12	-225.59	483.36	4,403.38	4,351.37	52.01	84.660		
5,500.00	5,365.12	5,292.08	5,283.02	20.76	18.49	-104.28	-228.10	483.40	4,310.58	4,258.20	52.39	82.284		
5,600.00	5,461.82	5,385.80	5,376.74	21.16	18.85	-104.44	-230.70	483.45	4,218.11	4,165.34	52.78	79.926		
5,700.00	5,558.52	5,480.52	5,471.46	21.56	19.21	-104.60	-233.40	483.51	4,125.99	4,072.81	53.18	77.587		
5,800.00	5,655.21	5,577.24	5,568.18	21.96	19.57	-104.76	-236.21	483.57	4,034.24	3,980.64	53.60	75.267		
5,900.00	5,751.91	5,673.96	5,664.90	22.35	19.93	-104.92	-239.14	483.63	3,942.89	3,888.86	54.04	72.967		
6,000.00	5,848.61	5,770.68	5,761.62	22.75	20.29	-105.08	-242.18	483.71	3,851.97	3,797.48	54.49	70.689		
6,100.00	5,945.31	5,867.40	5,858.34	23.15	20.65	-105.24	-245.36	483.79	3,761.50	3,706.53	54.97	68.432		
6,200.00	6,042.01	5,964.12	5,955.06	23.55	21.01	-105.40	-248.67	483.88	3,671.52	3,616.06	55.46	66.198		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
6,300.00	6,138.71	14,325.21	9,670.97	23.95	50.84	176.05	-252.13	483.97	3,582.07	3,526.09	55.98	63.988		
6,400.00	6,235.40	14,328.83	9,671.00	24.35	50.86	175.93	-255.75	484.08	3,493.19	3,436.66	56.52	61.802		
6,500.00	6,332.10	14,332.62	9,671.03	24.75	50.88	175.79	-259.54	484.20	3,404.91	3,347.82	57.09	59.642		
6,600.00	6,428.80	14,336.58	9,671.06	25.15	50.90	175.66	-263.50	484.33	3,317.30	3,259.62	57.68	57.509		
6,700.00	6,525.50	14,340.74	9,671.11	25.55	50.93	175.51	-267.66	484.48	3,230.40	3,172.09	58.31	55.404		
6,800.00	6,622.20	14,345.11	9,671.16	25.95	50.95	175.36	-272.02	484.63	3,144.26	3,085.30	58.96	53.329		
6,900.00	6,718.89	14,349.70	9,671.21	26.35	50.98	175.19	-276.61	484.81	3,058.97	2,999.32	59.65	51.285		
7,000.00	6,815.59	14,354.53	9,671.28	26.75	51.01	175.02	-281.43	485.01	2,974.58	2,914.21	60.37	49.274		
7,100.00	6,912.29	14,366.00	9,671.45	27.15	51.07	174.62	-292.89	485.51	2,891.18	2,830.01	61.17	47.264		
7,200.00	7,008.99	14,366.00	9,671.45	27.55	51.07	174.62	-292.89	485.51	2,808.84	2,746.91	61.94	45.351		
7,300.00	7,105.69	14,375.30	9,671.60	27.95	51.13	174.29	-302.18	485.93	2,727.67	2,664.87	62.80	43.433		
7,400.00	7,202.39	14,385.91	9,671.74	28.35	51.19	173.92	-312.78	486.41	2,647.76	2,584.04	63.72	41.553		
7,500.00	7,299.08	14,395.78	9,671.86	28.75	51.25	173.57	-322.64	486.84	2,569.24	2,504.56	64.68	39.722		
7,600.00	7,395.78	14,404.98	9,671.94	29.15	51.30	173.25	-331.83	487.24	2,492.23	2,426.55	65.68	37.943		
7,700.00	7,492.48	14,413.57	9,672.01	29.56	51.35	172.94	-340.41	487.60	2,416.89	2,350.15	66.73	36.218		
7,800.00	7,589.18	14,421.63	9,672.06	29.96	51.40	172.66	-348.46	487.93	2,343.37	2,275.54	67.83	34.549		
7,900.00	7,685.98	14,429.08	9,672.10	30.36	51.44	172.30	-355.91	488.24	2,271.57	2,202.60	68.97	32.936		
8,000.00	7,783.18	14,435.68	9,672.12	30.75	51.48	171.92	-362.50	488.50	2,200.78	2,130.64	70.14	31.377		
8,100.00	7,880.77	14,441.47	9,672.13	31.14	51.51	171.57	-368.28	488.73	2,131.04	2,059.70	71.34	29.873		
8,200.00	7,978.73	14,446.52	9,672.13	31.53	51.54	171.24	-373.33	488.92	2,062.49	1,989.93	72.56	28.425		
8,300.00	8,077.03	14,450.90	9,672.13	31.91	51.57	170.93	-377.71	489.09	1,995.29	1,921.48	73.81	27.034		
8,400.00	8,175.63	14,454.65	9,672.13	32.28	51.59	170.65	-381.45	489.23	1,929.59	1,854.51	75.08	25.702		
8,500.00	8,274.51	14,457.82	9,672.12	32.65	51.61	170.39	-384.63	489.35	1,865.57	1,789.21	76.36	24.430		
8,600.00	8,373.63	14,460.46	9,672.12	33.02	51.62	170.15	-387.27	489.45	1,803.44	1,725.78	77.66	23.222		
8,700.00	8,472.97	14,462.61	9,672.11	33.37	51.63	169.93	-389.41	489.53	1,743.43	1,664.47	78.96	22.079		
8,800.00	8,572.50	14,464.30	9,672.10	33.73	51.64	169.74	-391.10	489.60	1,685.77	1,605.51	80.26	21.004		
8,900.00	8,672.17	14,465.05	9,672.11	34.08	51.65	169.59	-391.85	489.63	1,630.75	1,549.21	81.53	20.001		
9,000.00	8,771.98	14,466.11	9,672.11	34.42	51.66	169.43	-392.91	489.67	1,578.64	1,495.87	82.77	19.072		
9,100.00	8,871.87	14,466.87	9,672.10	34.76	51.66	169.30	-393.67	489.70	1,529.77	1,445.81	83.96	18.220		
9,200.00	8,971.83	14,467.33	9,672.10	35.10	51.66	169.18	-394.13	489.71	1,484.48	1,399.41	85.06	17.451		
9,300.00	9,071.83	14,467.45	9,672.10	35.42	51.66	169.09	-394.25	489.72	1,443.10	1,357.05	86.05	16.771		
9,400.00	9,171.44	14,475.37	9,672.11	35.73	51.71	169.00	-402.16	490.03	1,406.58	1,319.63	86.95	16.177		
9,500.00	9,268.29	14,503.02	9,672.22	36.04	51.87	169.25	-429.78	491.18	1,376.44	1,288.64	87.80	15.677		
9,600.00	9,359.44	14,550.95	9,672.83	36.33	52.15	169.30	-477.66	493.45	1,353.00	1,264.41	88.59	15.273		
9,700.00	9,442.11	14,606.54	9,673.61	36.59	52.48	169.59	-533.17	496.22	1,335.81	1,246.57	89.24	14.969		
9,800.00	9,513.79	14,671.11	9,673.92	36.83	52.86	169.78	-597.68	499.20	1,324.10	1,234.31	89.78	14.747		
9,900.00	9,572.31	14,742.41	9,673.88	37.05	53.29	170.00	-668.92	502.01	1,316.86	1,226.60	90.26	14.589		
10,000.00	9,615.89	14,839.28	9,675.08	37.26	53.87	170.39	-765.71	505.77	1,312.18	1,221.30	90.88	14.438		
10,100.00	9,643.92	14,928.00	9,677.66	37.46	54.41	170.70	-854.30	509.63	1,308.17	1,216.70	91.47	14.301		
10,177.20	9,658.66	14,964.66	9,678.56	37.62	54.63	170.99	-890.93	510.56	1,306.80	1,215.11	91.69	14.252	CC	
10,200.00	9,662.03	14,973.99	9,678.69	37.67	54.69	171.24	-900.27	510.57	1,306.92	1,215.18	91.74	14.246		
10,300.00	9,671.50	15,022.00	9,678.74	37.89	54.98	171.59	-948.25	509.11	1,310.20	1,218.21	91.99	14.244		
10,400.00	9,673.00	15,125.91	9,676.42	38.11	55.60	172.00	-1,052.00	504.08	1,315.59	1,222.84	92.75	14.184		
10,500.00	9,673.00	15,248.60	9,672.89	38.34	56.35	172.40	-1,174.60	500.64	1,318.83	1,225.12	93.72	14.073		
10,600.00	9,673.00	15,347.35	9,672.67	38.58	56.96	172.80	-1,273.31	498.26	1,321.71	1,227.21	94.50	13.986		
10,700.00	9,673.00	15,456.68	9,671.50	38.83	57.63	173.20	-1,382.61	495.87	1,324.38	1,228.98	95.40	13.883		
10,800.00	9,673.00	15,554.87	9,669.19	39.10	58.24	173.60	-1,480.76	494.39	1,326.41	1,230.22	96.20	13.789		
10,900.00	9,673.00	15,670.48	9,667.14	39.37	58.96	174.00	-1,596.34	492.66	1,328.45	1,231.26	97.19	13.669		
11,000.00	9,673.00	15,771.83	9,665.96	39.65	59.60	174.40	-1,697.68	492.12	1,329.47	1,231.41	98.06	13.558		
11,100.00	9,673.00	15,845.03	9,665.28	39.95	60.06	174.80	-1,770.87	490.98	1,331.51	1,232.84	98.66	13.495		
11,200.00	9,673.00	15,979.20	9,664.15	40.25	60.91	175.20	-1,905.00	488.94	1,333.58	1,233.67	99.91	13.348		
11,300.00	9,673.00	16,070.65	9,663.16	40.57	61.49	175.60	-1,996.45	488.76	1,334.27	1,233.54	100.74	13.245		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor			
11,400.00	9,673.00	16,147.00	9,662.36	40.90	61.98	88.20	-2,072.79	487.69	1,336.19	1,234.79	101.40	13.177			
11,500.00	9,673.00	16,213.98	9,662.01	41.23	62.41	88.19	-2,139.73	485.32	1,340.24	1,238.29	101.95	13.145			
11,600.00	9,673.00	16,411.33	9,660.17	41.58	63.68	88.11	-2,336.95	484.18	1,340.65	1,236.67	103.98	12.893			
11,700.00	9,673.00	16,498.10	9,658.97	41.93	64.25	88.06	-2,423.69	485.90	1,339.18	1,234.36	104.82	12.776			
11,779.66	9,673.00	16,565.50	9,658.06	42.22	64.69	88.02	-2,491.08	486.55	1,338.81	1,233.33	105.48	12.693			
11,800.00	9,673.00	16,582.67	9,657.79	42.30	64.80	88.01	-2,508.25	486.62	1,338.84	1,233.19	105.64	12.673			
11,900.00	9,673.00	16,717.22	9,655.96	42.67	65.69	87.93	-2,642.78	487.95	1,338.54	1,231.54	107.00	12.509			
11,964.93	9,673.00	16,750.79	9,655.76	42.92	65.91	87.92	-2,676.34	488.40	1,337.89	1,230.55	107.33	12.465			
12,000.00	9,673.00	16,771.12	9,655.67	43.06	66.04	87.92	-2,696.68	488.38	1,338.08	1,230.56	107.52	12.445			
12,100.00	9,673.00	16,924.91	9,654.29	43.45	67.05	87.86	-2,850.42	489.07	1,338.63	1,229.49	109.13	12.266			
12,200.00	9,673.00	17,028.77	9,652.80	43.85	67.75	87.79	-2,954.20	492.96	1,335.39	1,225.17	110.22	12.116			
12,300.00	9,673.00	17,118.93	9,651.65	44.26	68.35	87.73	-3,044.30	496.00	1,332.52	1,221.35	111.17	11.986			
12,400.00	9,673.00	17,215.37	9,649.62	44.68	68.99	87.64	-3,140.69	498.54	1,330.42	1,218.23	112.19	11.859			
12,500.00	9,673.00	17,321.02	9,647.50	45.11	69.71	87.55	-3,246.26	501.92	1,327.75	1,214.43	113.32	11.717			
12,600.00	9,673.00	17,419.67	9,646.27	45.55	70.37	87.49	-3,344.86	504.83	1,325.30	1,210.91	114.39	11.586			
12,700.00	9,673.00	17,528.43	9,644.47	45.99	71.11	87.41	-3,453.54	508.48	1,322.48	1,206.90	115.58	11.442			
12,800.00	9,673.00	17,611.32	9,643.15	46.44	71.67	87.34	-3,536.37	511.29	1,319.67	1,203.17	116.49	11.328			
12,900.00	9,673.00	17,690.72	9,642.67	46.90	72.20	87.32	-3,615.76	512.44	1,318.67	1,201.30	117.37	11.235			
12,933.24	9,673.00	17,719.52	9,642.44	47.06	72.40	87.31	-3,644.55	512.63	1,318.62	1,200.93	117.69	11.204			
13,000.00	9,673.00	17,784.59	9,641.65	47.37	72.84	87.28	-3,709.62	512.84	1,318.74	1,200.32	118.42	11.136			
13,077.48	9,673.00	17,863.77	9,640.36	47.73	73.38	87.22	-3,788.79	513.27	1,318.73	1,199.42	119.31	11.053			
13,100.00	9,673.00	17,885.08	9,640.01	47.84	73.52	87.21	-3,810.09	513.37	1,318.74	1,199.19	119.55	11.031			
13,200.00	9,673.00	17,981.14	9,638.50	48.32	74.18	87.14	-3,906.14	513.62	1,319.01	1,198.37	120.64	10.933			
13,300.00	9,673.00	18,078.86	9,636.62	48.81	74.85	87.06	-4,003.85	513.69	1,319.49	1,197.74	121.75	10.838			
13,400.00	9,673.00	18,178.86	9,634.52	49.30	75.53	86.97	-4,103.82	513.65	1,320.09	1,197.19	122.90	10.741			
13,500.00	9,673.00	18,265.15	9,632.52	49.80	76.12	86.88	-4,190.09	513.42	1,320.97	1,197.11	123.87	10.664			
13,600.00	9,673.00	18,378.20	9,628.86	50.31	76.90	86.73	-4,303.07	512.12	1,322.84	1,197.64	125.20	10.566			
13,700.00	9,673.00	18,460.87	9,627.27	50.82	77.47	86.66	-4,385.72	511.98	1,323.67	1,197.54	126.13	10.495			
13,800.00	9,673.00	18,567.31	9,625.06	51.34	78.20	86.57	-4,492.12	510.03	1,326.12	1,198.72	127.40	10.409			
13,900.00	9,673.00	18,691.42	9,625.17	51.87	79.05	86.58	-4,616.23	510.07	1,326.51	1,197.56	128.95	10.287			
13,916.93	9,673.00	18,703.45	9,625.17	51.96	79.14	86.58	-4,628.26	510.13	1,326.49	1,197.40	129.09	10.276			
14,000.00	9,673.00	18,778.00	9,624.79	52.40	79.65	86.56	-4,702.81	510.05	1,326.96	1,196.97	129.98	10.209			
14,100.00	9,673.00	18,887.13	9,623.97	52.94	80.41	86.53	-4,811.94	510.27	1,327.45	1,196.12	131.33	10.108	ES, SF		
14,200.00	9,673.00	18,966.00	9,623.57	53.49	80.96	86.48	-4,890.80	509.93	1,338.35	1,206.07	132.28	10.118			
14,300.00	9,673.00	19,052.86	9,622.55	54.08	81.56	86.35	-4,977.64	508.61	1,365.19	1,231.83	133.36	10.237			
14,400.00	9,673.00	19,165.16	9,622.27	54.68	82.34	86.22	-5,089.93	507.45	1,405.78	1,270.91	134.87	10.423			
14,500.00	9,673.00	19,241.34	9,622.62	55.27	82.87	85.99	-5,166.10	506.96	1,459.28	1,323.40	135.88	10.739			
14,600.00	9,673.00	19,299.15	9,622.23	55.84	83.27	85.55	-5,223.90	506.06	1,525.61	1,388.96	136.65	11.165			
14,700.00	9,673.00	19,307.00	9,622.17	56.38	83.33	84.63	-5,231.75	505.91	1,603.64	1,467.02	136.62	11.738			
14,800.00	9,673.00	19,307.00	9,622.17	56.88	83.33	82.84	-5,231.75	505.91	1,691.81	1,555.37	136.44	12.399			
14,900.00	9,673.00	19,307.00	9,622.17	57.31	83.33	78.49	-5,231.75	505.91	1,786.77	1,650.45	136.32	13.108			
15,000.00	9,673.00	19,307.00	9,622.17	57.68	83.33	57.42	-5,231.75	505.91	1,885.48	1,749.20	136.28	13.836			
15,100.00	9,673.00	19,307.00	9,622.17	57.96	83.33	-63.46	-5,231.75	505.91	1,985.29	1,848.96	136.33	14.562			
15,200.00	9,673.00	19,307.00	9,622.17	58.17	83.33	-80.06	-5,231.75	505.91	2,083.92	1,947.44	136.48	15.269			
15,300.00	9,673.00	19,307.00	9,622.17	58.28	83.33	-83.97	-5,231.75	505.91	2,179.41	2,042.72	136.69	15.944			
15,400.00	9,673.00	19,307.00	9,622.17	58.32	83.33	-85.67	-5,231.75	505.91	2,270.09	2,133.16	136.94	16.578			
15,500.00	9,673.00	19,307.00	9,622.17	58.28	83.33	-86.59	-5,231.75	505.91	2,354.57	2,217.38	137.19	17.162			
15,600.00	9,673.00	19,304.51	9,622.19	58.17	83.31	-87.17	-5,229.27	505.96	2,431.64	2,294.24	137.40	17.697			
15,700.00	9,673.00	19,249.00	9,622.59	58.00	82.93	-87.60	-5,173.76	506.90	2,499.30	2,362.43	136.87	18.260			
15,800.00	9,673.00	19,183.20	9,622.44	57.78	82.47	-87.87	-5,107.96	507.35	2,555.90	2,419.66	136.24	18.761			
15,900.00	9,673.00	19,063.81	9,622.33	57.54	81.64	-88.07	-4,988.59	508.43	2,599.30	2,464.37	134.93	19.264			
16,000.00	9,673.00	18,973.76	9,623.53	57.27	81.01	-88.20	-4,898.56	509.82	2,627.91	2,493.84	134.07	19.601			

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
16,100.00	9,673.00	18,911.14	9,623.83	56.99	80.58	-88.25	-4,835.94	510.33	2,642.50	2,508.91	133.59	19.781		
16,200.00	9,673.00	18,808.39	9,624.51	56.72	79.86	-88.27	-4,733.20	509.93	2,645.39	2,512.78	132.61	19.949		
16,300.00	9,673.00	18,718.91	9,625.15	56.46	79.24	-88.28	-4,643.72	510.18	2,644.69	2,512.88	131.81	20.064		
16,400.00	9,673.00	18,572.63	9,625.26	56.21	78.24	-88.29	-4,497.44	510.14	2,644.58	2,514.28	130.30	20.296		
16,500.00	9,673.00	18,468.70	9,627.08	55.97	77.52	-88.33	-4,393.55	511.86	2,642.43	2,513.08	129.35	20.428		
16,600.00	9,673.00	18,394.24	9,628.65	55.73	77.01	-88.36	-4,319.11	512.25	2,641.26	2,512.46	128.79	20.508		
16,700.00	9,673.00	18,277.77	9,632.12	55.50	76.21	-88.43	-4,202.70	513.28	2,639.85	2,512.13	127.72	20.669		
16,800.00	9,673.00	18,212.46	9,633.84	55.28	75.76	-88.47	-4,137.42	513.66	2,638.75	2,511.46	127.29	20.730		
16,900.00	9,673.00	18,110.15	9,635.97	55.06	75.06	-88.52	-4,035.13	513.68	2,638.23	2,511.81	126.42	20.869		
17,000.00	9,673.00	18,014.18	9,637.91	54.86	74.40	-88.56	-3,939.19	513.66	2,637.75	2,512.13	125.63	20.997		
17,100.00	9,673.00	17,919.56	9,639.47	54.66	73.76	-88.59	-3,844.58	513.50	2,637.45	2,512.58	124.86	21.122		
17,148.92	9,673.00	17,875.71	9,640.16	54.56	73.46	-88.61	-3,800.73	513.33	2,637.40	2,512.87	124.53	21.180		
17,200.00	9,673.00	17,827.52	9,640.99	54.47	73.13	-88.62	-3,752.55	513.05	2,637.44	2,513.30	124.14	21.245		
17,300.00	9,673.00	17,724.11	9,642.39	54.28	72.43	-88.65	-3,649.15	512.65	2,637.35	2,514.05	123.30	21.390		
17,302.19	9,673.00	17,722.43	9,642.41	54.28	72.42	-88.66	-3,647.47	512.64	2,637.35	2,514.06	123.29	21.392		
17,400.00	9,673.00	17,651.00	9,642.88	54.11	71.94	-88.67	-3,576.04	512.02	2,637.78	2,514.97	122.81	21.478		
17,500.00	9,673.00	17,590.83	9,643.39	53.94	71.53	-88.68	-3,515.89	510.74	2,639.48	2,517.01	122.47	21.553		
17,600.00	9,673.00	17,506.00	9,644.87	53.78	70.95	-88.71	-3,431.13	507.66	2,642.58	2,520.72	121.86	21.686		
17,700.00	9,673.00	17,388.87	9,646.66	53.63	70.16	-88.75	-3,314.07	503.91	2,645.29	2,524.38	120.92	21.877		
17,800.00	9,673.00	17,299.27	9,647.86	53.49	69.56	-88.78	-3,224.52	501.22	2,647.84	2,527.56	120.28	22.014		
17,900.00	9,673.00	17,182.00	9,650.40	53.35	68.77	-88.83	-3,107.33	497.69	2,650.37	2,530.99	119.37	22.202		
18,000.00	9,673.00	17,088.00	9,652.08	53.23	68.14	-88.87	-3,013.39	495.03	2,652.71	2,533.99	118.72	22.344		
18,100.00	9,673.00	17,013.30	9,653.01	53.11	67.64	-88.89	-2,938.74	492.37	2,655.75	2,537.48	118.27	22.454		
18,200.00	9,673.00	16,805.00	9,655.59	53.00	66.26	-88.95	-2,730.55	487.85	2,657.88	2,541.42	116.46	22.823		
18,272.26	9,673.00	16,751.48	9,655.76	52.93	65.91	-88.95	-2,677.03	488.40	2,657.02	2,540.85	116.17	22.872		
18,300.00	9,673.00	16,740.12	9,655.81	52.91	65.84	-88.95	-2,665.67	488.31	2,657.10	2,540.94	116.16	22.875		
18,400.00	9,673.00	16,617.00	9,657.20	52.82	65.03	-88.98	-2,542.58	486.63	2,658.18	2,542.92	115.26	23.063		
18,455.94	9,673.00	16,568.23	9,658.02	52.78	64.71	-89.00	-2,493.82	486.56	2,658.01	2,543.03	114.98	23.118		
18,500.00	9,673.00	16,535.91	9,658.48	52.74	64.50	-89.01	-2,461.50	486.34	2,658.11	2,543.29	114.82	23.151		
18,600.00	9,673.00	16,462.18	9,659.45	52.67	64.02	-89.03	-2,387.78	485.31	2,659.04	2,544.59	114.45	23.233		
18,700.00	9,673.00	16,198.53	9,662.03	52.62	62.31	-89.09	-2,124.29	486.02	2,659.81	2,547.68	112.12	23.722		
18,800.00	9,673.00	16,147.00	9,662.36	52.57	61.98	-89.09	-2,072.79	487.69	2,656.06	2,544.00	112.06	23.702		
18,900.00	9,673.00	16,086.43	9,663.00	52.54	61.60	-89.11	-2,012.23	488.64	2,653.99	2,542.09	111.90	23.718		
19,000.00	9,673.00	16,008.94	9,663.80	52.51	61.10	-89.13	-1,934.75	488.93	2,653.12	2,541.56	111.56	23.783		
19,100.00	9,673.00	15,844.26	9,665.29	52.50	60.06	-89.16	-1,770.10	491.00	2,651.45	2,541.10	110.35	24.027		
19,200.00	9,673.00	15,772.00	9,665.95	52.50	59.60	-89.17	-1,697.85	492.12	2,649.32	2,539.22	110.10	24.063		
19,300.00	9,673.00	15,697.78	9,666.84	52.51	59.14	-89.19	-1,623.63	492.51	2,648.20	2,538.37	109.83	24.111		
19,400.00	9,673.00	15,562.24	9,669.03	52.53	58.29	-89.24	-1,488.13	494.25	2,646.42	2,537.43	108.99	24.282		
19,500.00	9,673.00	15,471.83	9,671.18	52.57	57.72	-89.28	-1,397.75	495.63	2,644.41	2,535.80	108.60	24.349		
19,600.00	9,673.00	15,348.07	9,672.67	52.62	56.96	-89.31	-1,274.04	498.24	2,641.80	2,533.90	107.90	24.483		
19,700.00	9,673.00	15,250.78	9,672.86	52.68	56.36	-89.32	-1,176.77	500.59	2,638.94	2,531.48	107.46	24.556		
19,800.00	9,673.00	15,089.87	9,677.51	52.75	55.39	-89.42	-1,016.02	505.64	2,635.52	2,529.05	106.47	24.754		
19,900.00	9,673.00	15,022.00	9,678.74	52.84	54.98	-89.44	-948.25	509.11	2,630.30	2,523.94	106.36	24.730		
20,000.00	9,673.00	14,980.85	9,678.76	52.94	54.73	-89.44	-907.13	510.51	2,627.10	2,520.62	106.48	24.672		
20,057.41	9,673.00	14,965.96	9,678.58	53.01	54.64	-89.44	-892.24	510.57	2,626.64	2,520.02	106.62	24.637		
20,100.00	9,673.00	14,928.00	9,677.66	53.06	54.41	-89.42	-854.30	509.63	2,627.43	2,520.96	106.47	24.678		
20,200.00	9,673.00	14,932.35	9,677.80	53.19	54.44	-89.42	-858.65	509.83	2,629.50	2,522.60	106.91	24.596		
20,300.00	9,673.00	14,819.06	9,674.60	53.33	53.75	-89.35	-745.50	504.93	2,633.42	2,527.05	106.36	24.759		
20,400.00	9,673.00	14,713.19	9,673.93	53.49	53.11	-89.34	-639.72	500.93	2,636.75	2,530.83	105.92	24.894		
20,500.00	9,673.00	14,634.85	9,673.82	53.66	52.65	-89.34	-561.45	497.57	2,640.60	2,534.89	105.70	24.981		
20,600.00	9,673.00	14,543.86	9,672.70	53.84	52.11	-89.31	-470.58	493.09	2,645.08	2,539.68	105.39	25.097		
20,610.93	9,673.00	14,525.53	9,672.44	54.93	52.00	-89.31	-452.28	492.20	2,645.56	2,540.32	105.24	25.139		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	28.71	28.71	0.00	0.05	2.22	4,645.58	180.35	4,649.08					
100.00	100.00	121.31	121.31	0.28	0.19	2.22	4,645.70	180.17	4,649.21	4,648.74	0.47	9,920.298		
200.00	200.00	228.36	228.35	0.63	0.42	2.21	4,646.00	179.69	4,649.47	4,648.42	1.05	4,426.020		
300.00	300.00	404.78	404.77	0.99	1.04	2.20	4,644.57	178.39	4,648.58	4,646.55	2.03	2,289.414		
400.00	400.00	505.38	505.35	1.35	1.39	2.20	4,642.90	178.29	4,646.91	4,644.17	2.74	1,695.704		
500.00	500.00	589.97	589.93	1.71	1.69	2.20	4,641.70	178.70	4,645.51	4,642.12	3.39	1,368.678		
548.71	548.71	658.68	658.63	1.88	1.93	-177.79	4,640.66	179.24	4,645.20	4,641.40	3.80	1,221.834		
600.00	599.98	718.64	718.58	2.05	2.14	-177.78	4,639.54	179.70	4,645.59	4,641.40	4.19	1,109.205		
700.00	699.84	793.49	793.42	2.39	2.40	-177.78	4,638.23	179.91	4,649.12	4,644.33	4.79	970.801		
800.00	799.49	857.86	857.78	2.73	2.63	-177.78	4,637.63	179.65	4,656.43	4,651.07	5.36	868.586		
900.00	899.11	933.00	932.92	3.07	2.90	-177.79	4,637.51	179.07	4,664.92	4,658.96	5.97	781.601		
1,000.00	998.73	1,023.41	1,023.33	3.42	3.21	-177.81	4,637.71	178.09	4,673.80	4,667.17	6.63	704.866		
1,100.00	1,098.36	1,151.35	1,151.25	3.77	3.67	-155.06	4,637.52	176.55	4,681.94	4,674.51	7.43	629.936		
1,200.00	1,197.92	1,267.31	1,267.21	4.12	4.08	-135.39	4,636.85	175.23	4,688.91	4,680.71	8.20	572.022		
1,300.00	1,297.29	1,381.81	1,381.70	4.48	4.49	-121.56	4,635.75	174.04	4,694.75	4,685.79	8.96	524.011		
1,400.00	1,396.36	1,487.28	1,487.15	4.84	4.87	-112.36	4,634.49	173.11	4,699.63	4,689.94	9.69	484.961		
1,500.00	1,495.00	1,547.66	1,547.53	5.20	5.08	-106.07	4,633.93	172.67	4,704.10	4,693.84	10.26	458.578		
1,600.00	1,593.09	1,594.00	1,593.87	5.56	5.24	-101.60	4,633.91	172.50	4,708.79	4,698.01	10.78	436.984		
1,700.00	1,690.51	1,665.80	1,665.67	5.92	5.49	-98.40	4,634.46	172.27	4,713.58	4,702.20	11.38	414.194		
1,800.00	1,787.29	1,737.82	1,737.68	6.28	5.73	-97.42	4,635.54	171.84	4,718.53	4,706.54	11.99	393.582		
1,900.00	1,883.98	1,818.01	1,817.85	6.65	6.01	-97.67	4,637.08	170.79	4,723.94	4,711.31	12.63	373.955		
2,000.00	1,980.68	1,915.85	1,915.65	7.02	6.35	-97.99	4,639.19	169.08	4,729.75	4,716.41	13.34	354.485		
2,100.00	2,077.38	2,076.59	2,076.31	7.39	6.90	-98.45	4,641.53	172.47	4,735.08	4,720.81	14.27	331.816		
2,200.00	2,174.08	2,327.75	2,327.30	7.77	7.76	-99.12	4,638.05	180.28	4,736.99	4,721.48	15.52	305.313		
2,300.00	2,270.78	2,401.92	2,401.43	8.15	8.02	-99.33	4,636.28	181.84	4,738.74	4,722.59	16.15	293.377		
2,400.00	2,367.48	2,473.36	2,472.86	8.53	8.27	-99.54	4,635.00	182.46	4,741.19	4,724.40	16.78	282.506		
2,500.00	2,464.17	2,558.51	2,558.00	8.92	8.56	-99.79	4,633.80	182.60	4,744.14	4,726.68	17.46	271.653		
2,600.00	2,560.87	2,648.46	2,647.94	9.30	8.88	-100.06	4,632.68	182.86	4,747.39	4,729.23	18.16	261.364		
2,700.00	2,657.57	2,737.00	2,736.48	9.69	9.19	-100.33	4,631.73	183.24	4,750.93	4,732.07	18.86	251.912		
2,800.00	2,754.27	2,842.56	2,842.03	10.08	9.57	-100.64	4,630.57	183.64	4,754.58	4,734.96	19.62	242.363		
2,900.00	2,850.97	2,933.37	2,932.84	10.47	9.89	-100.91	4,629.57	183.94	4,758.34	4,738.02	20.32	234.120		
3,000.00	2,947.66	3,036.75	3,036.21	10.86	10.25	-101.22	4,628.40	184.30	4,762.21	4,741.14	21.08	225.939		
3,100.00	3,044.36	3,134.05	3,133.50	11.25	10.60	-101.52	4,627.19	184.05	4,766.14	4,744.33	21.81	218.529		
3,200.00	3,141.06	3,227.75	3,227.18	11.64	10.93	-101.82	4,626.02	182.55	4,770.26	4,747.73	22.53	211.730		
3,300.00	3,237.76	3,328.79	3,328.15	12.03	11.29	-102.16	4,624.53	179.16	4,774.43	4,751.15	23.28	205.125		
3,400.00	3,334.46	3,398.00	3,397.28	12.43	11.53	-102.40	4,623.56	176.09	4,778.94	4,755.03	23.91	199.902		
3,500.00	3,431.16	3,478.83	3,477.99	12.82	11.82	-102.70	4,622.72	171.77	4,784.02	4,759.44	24.58	194.643		
3,600.00	3,527.85	3,559.08	3,558.08	13.21	12.10	-102.99	4,622.20	166.63	4,789.72	4,764.48	25.25	189.708		
3,700.00	3,624.55	3,631.46	3,630.26	13.61	12.35	-103.27	4,621.91	161.34	4,795.95	4,770.06	25.89	185.258		
3,800.00	3,721.25	3,680.00	3,678.65	14.00	12.52	-103.46	4,621.92	157.46	4,802.96	4,776.52	26.44	181.666		
3,900.00	3,817.95	3,753.06	3,751.41	14.40	12.78	-103.75	4,622.37	150.85	4,810.78	4,783.70	27.08	177.661		
4,000.00	3,914.65	3,814.65	3,812.65	14.79	12.99	-104.01	4,623.18	144.37	4,819.57	4,791.89	27.67	174.157		
4,100.00	4,011.35	3,881.87	3,879.37	15.19	13.23	-104.29	4,624.36	136.30	4,829.18	4,800.89	28.29	170.709		
4,200.00	4,108.04	3,964.00	3,960.71	15.59	13.52	-104.66	4,625.88	125.06	4,839.34	4,810.38	28.96	167.102		
4,300.00	4,204.74	4,036.61	4,032.47	15.98	13.77	-104.99	4,627.31	114.10	4,850.07	4,820.48	29.59	163.884		
4,400.00	4,301.44	4,097.82	4,092.89	16.38	13.98	-105.28	4,628.76	104.35	4,861.60	4,831.42	30.18	161.070		
4,500.00	4,398.14	4,153.00	4,147.31	16.78	14.18	-105.54	4,630.43	95.39	4,874.07	4,843.32	30.75	158.530		
4,600.00	4,494.84	4,220.78	4,214.12	17.17	14.41	-105.85	4,632.88	84.26	4,887.39	4,856.04	31.36	155.866		
4,700.00	4,591.53	4,308.29	4,300.35	17.57	14.72	-106.26	4,636.37	69.75	4,901.39	4,869.35	32.05	152.944		
4,800.00	4,688.23	4,402.60	4,393.24	17.97	15.05	-106.71	4,639.97	53.82	4,915.60	4,882.83	32.77	150.022		
4,900.00	4,784.93	4,490.98	4,480.26	18.37	15.37	-107.12	4,643.32	38.72	4,930.13	4,896.67	33.46	147.338		
5,000.00	4,881.63	4,584.24	4,572.01	18.77	15.70	-107.56	4,646.81	22.40	4,945.00	4,910.83	34.18	144.685		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Tooface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,978.33	4,700.96	4,686.81	19.16	16.11	-108.11	4,650.83	1.72	4,959.98	4,924.98	34.99	141.743		
5,200.00	5,075.03	14,460.00	9,896.94	19.56	50.98	176.52	-180.95	-176.97	4,925.20	4,872.98	52.21	94.329		
5,300.00	5,171.72	14,460.00	9,896.94	19.96	50.98	176.52	-180.95	-176.97	4,837.23	4,784.64	52.59	91.984		
5,400.00	5,268.42	14,460.00	9,896.94	20.36	50.98	176.52	-180.95	-176.97	4,749.74	4,696.76	52.98	89.659		
5,500.00	5,365.12	14,460.00	9,896.94	20.76	50.98	176.52	-180.95	-176.97	4,662.75	4,609.37	53.38	87.355		
5,600.00	5,461.82	14,460.00	9,896.94	21.16	50.98	176.52	-180.95	-176.97	4,576.29	4,522.50	53.79	85.071		
5,700.00	5,558.52	14,460.00	9,896.94	21.56	50.98	176.52	-180.95	-176.97	4,490.40	4,436.17	54.23	82.808		
5,800.00	5,655.21	14,476.55	9,897.11	21.96	51.07	176.11	-197.49	-176.84	4,405.05	4,350.27	54.79	80.405		
5,900.00	5,751.91	14,480.03	9,897.16	22.35	51.09	176.02	-200.98	-176.81	4,320.36	4,265.09	55.27	78.162		
6,000.00	5,848.61	14,483.59	9,897.20	22.75	51.11	175.94	-204.54	-176.78	4,236.34	4,180.56	55.78	75.945		
6,100.00	5,945.31	14,487.23	9,897.25	23.15	51.13	175.85	-208.17	-176.75	4,153.01	4,096.71	56.31	73.756		
6,200.00	6,042.01	14,490.95	9,897.30	23.55	51.15	175.76	-211.89	-176.72	4,070.44	4,013.58	56.85	71.594		
6,300.00	6,138.71	14,494.74	9,897.35	23.95	51.18	175.66	-215.69	-176.68	3,988.65	3,931.23	57.42	69.462		
6,400.00	6,235.40	14,498.63	9,897.41	24.35	51.20	175.57	-219.57	-176.64	3,907.71	3,849.69	58.01	67.360		
6,500.00	6,332.10	14,502.60	9,897.47	24.75	51.22	175.47	-223.54	-176.61	3,827.66	3,769.03	58.63	65.290		
6,600.00	6,428.80	14,506.66	9,897.53	25.15	51.24	175.37	-227.60	-176.56	3,748.56	3,689.30	59.26	63.252		
6,700.00	6,525.50	14,510.82	9,897.60	25.55	51.27	175.27	-231.76	-176.52	3,670.48	3,610.56	59.93	61.249		
6,800.00	6,622.20	14,515.07	9,897.67	25.95	51.29	175.16	-236.01	-176.47	3,593.48	3,532.86	60.62	59.281		
6,900.00	6,718.89	14,519.42	9,897.74	26.35	51.32	175.05	-240.36	-176.42	3,517.63	3,456.29	61.34	57.351		
7,000.00	6,815.59	14,523.88	9,897.82	26.75	51.34	174.94	-244.82	-176.37	3,443.00	3,380.92	62.08	55.459		
7,100.00	6,912.29	14,528.45	9,897.91	27.15	51.37	174.83	-249.38	-176.32	3,369.69	3,306.83	62.86	53.607		
7,200.00	7,008.99	14,533.12	9,898.00	27.55	51.39	174.72	-254.06	-176.26	3,297.76	3,234.10	63.67	51.798		
7,300.00	7,105.69	14,537.92	9,898.10	27.95	51.42	174.60	-258.85	-176.20	3,227.33	3,162.82	64.50	50.032		
7,400.00	7,202.39	14,542.83	9,898.20	28.35	51.45	174.48	-263.77	-176.14	3,158.47	3,093.10	65.38	48.313		
7,500.00	7,299.08	14,553.00	9,898.42	28.75	51.51	174.23	-273.93	-176.00	3,091.32	3,025.01	66.31	46.619		
7,600.00	7,395.78	14,553.08	9,898.42	29.15	51.51	174.22	-274.01	-176.00	3,025.96	2,958.75	67.22	45.018		
7,700.00	7,492.48	14,563.04	9,898.63	29.56	51.57	173.98	-283.97	-175.86	2,962.53	2,894.31	68.21	43.430		
7,800.00	7,589.18	14,572.34	9,898.82	29.96	51.62	173.75	-293.26	-175.74	2,901.13	2,831.89	69.24	41.901		
7,900.00	7,685.98	14,580.93	9,898.97	30.36	51.67	173.48	-301.85	-175.64	2,841.58	2,771.30	70.29	40.429		
8,000.00	7,783.18	14,588.63	9,899.09	30.75	51.71	173.20	-309.55	-175.55	2,782.99	2,711.64	71.34	39.008		
8,100.00	7,880.77	14,595.48	9,899.19	31.14	51.75	172.94	-316.40	-175.48	2,725.35	2,652.94	72.41	37.638		
8,200.00	7,978.73	14,601.58	9,899.26	31.53	51.79	172.70	-322.49	-175.41	2,668.75	2,595.27	73.48	36.319		
8,300.00	8,077.03	14,606.97	9,899.33	31.91	51.82	172.48	-327.88	-175.36	2,613.27	2,538.72	74.56	35.051		
8,400.00	8,175.63	14,611.72	9,899.38	32.28	51.85	172.26	-332.63	-175.32	2,559.02	2,483.38	75.64	33.834		
8,500.00	8,274.51	14,615.88	9,899.42	32.65	51.87	172.07	-336.79	-175.28	2,506.09	2,429.37	76.71	32.669		
8,600.00	8,373.63	14,619.49	9,899.45	33.02	51.89	171.89	-340.41	-175.25	2,454.57	2,376.79	77.79	31.556		
8,700.00	8,472.97	14,622.61	9,899.48	33.37	51.91	171.72	-343.52	-175.22	2,404.60	2,325.75	78.85	30.496		
8,800.00	8,572.50	14,625.25	9,899.50	33.73	51.92	171.57	-346.17	-175.20	2,356.26	2,276.36	79.90	29.489		
8,900.00	8,672.17	14,627.47	9,899.51	34.08	51.94	171.43	-348.39	-175.18	2,309.70	2,228.76	80.94	28.537		
9,000.00	8,771.98	14,629.29	9,899.53	34.42	51.95	171.30	-350.20	-175.16	2,265.02	2,183.08	81.95	27.641		
9,100.00	8,871.87	14,630.73	9,899.53	34.76	51.95	171.19	-351.64	-175.15	2,222.37	2,139.44	82.92	26.800		
9,200.00	8,971.83	14,631.82	9,899.54	35.10	51.96	171.09	-352.74	-175.14	2,181.86	2,098.00	83.86	26.017		
9,300.00	9,071.83	14,632.59	9,899.55	35.42	51.97	171.00	-353.50	-175.14	2,143.65	2,058.90	84.74	25.295		
9,400.00	9,171.44	14,640.34	9,899.58	35.73	52.01	93.11	-361.26	-175.08	2,108.65	2,023.03	85.62	24.629		
9,500.00	9,268.29	14,669.23	9,899.67	36.04	52.18	95.46	-390.14	-174.86	2,078.59	1,992.04	86.55	24.017		
9,600.00	9,359.44	14,719.51	9,899.79	36.33	52.47	96.70	-440.42	-174.31	2,053.88	1,966.36	87.52	23.468		
9,700.00	9,442.11	14,785.13	9,899.94	36.59	52.85	97.14	-506.03	-173.28	2,034.35	1,945.87	88.48	22.992		
9,800.00	9,513.79	14,853.90	9,900.15	36.83	53.25	97.23	-574.79	-171.93	2,019.53	1,930.15	89.37	22.596		
9,900.00	9,572.31	14,913.48	9,900.28	37.05	53.60	97.25	-634.36	-171.21	2,009.47	1,919.33	90.14	22.293		
10,000.00	9,615.89	14,999.74	9,900.38	37.26	54.10	96.79	-720.63	-170.83	2,003.49	1,912.53	90.97	22.024		
10,100.00	9,643.92	15,106.12	9,900.56	37.46	54.74	96.25	-827.00	-170.09	1,999.92	1,908.07	91.85	21.774		
10,200.00	9,662.03	15,203.50	9,900.73	37.67	55.32	95.87	-924.37	-169.12	1,997.42	1,904.76	92.66	21.556		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.00	9,671.50	15,302.34	9,900.78	37.89	55.91	95.68	-1,023.21	-168.21	1,996.00	1,902.53	93.47	21.355		
10,400.00	9,673.00	15,397.00	9,900.71	38.11	56.48	95.66	-1,117.87	-167.21	1,995.26	1,901.03	94.24	21.173		
10,463.79	9,673.00	15,457.30	9,900.54	38.26	56.85	95.65	-1,178.16	-166.72	1,995.03	1,900.29	94.74	21.059		
10,500.00	9,673.00	15,491.00	9,900.42	38.34	57.06	95.65	-1,211.86	-166.65	1,995.10	1,900.08	95.02	20.997		
10,600.00	9,673.00	15,604.72	9,900.14	38.58	57.75	95.64	-1,325.58	-166.03	1,994.99	1,899.06	95.94	20.795		
10,700.00	9,673.00	15,707.23	9,899.86	38.83	58.39	95.64	-1,428.08	-164.87	1,994.30	1,897.49	96.80	20.601		
10,800.00	9,673.00	15,818.23	9,899.18	39.10	59.08	95.62	-1,539.08	-163.67	1,993.64	1,895.90	97.74	20.397		
10,900.00	9,673.00	15,912.64	9,898.78	39.37	59.66	95.61	-1,633.46	-161.80	1,992.10	1,893.50	98.60	20.205		
11,000.00	9,673.00	16,001.76	9,898.47	39.65	60.22	95.60	-1,722.58	-161.15	1,991.75	1,892.32	99.43	20.032		
11,100.00	9,673.00	16,101.48	9,898.19	39.95	60.85	95.60	-1,822.30	-160.02	1,991.05	1,890.71	100.35	19.842		
11,200.00	9,673.00	16,213.64	9,898.05	40.25	61.56	95.59	-1,934.45	-159.17	1,990.79	1,889.42	101.36	19.640		
11,300.00	9,673.00	16,312.65	9,897.93	40.57	62.19	95.59	-2,033.45	-157.52	1,989.56	1,887.26	102.31	19.447		
11,400.00	9,673.00	16,401.77	9,897.54	40.90	62.76	95.58	-2,122.56	-156.54	1,988.89	1,885.69	103.19	19.273		
11,500.00	9,673.00	16,500.28	9,897.09	41.23	63.39	95.57	-2,221.07	-155.84	1,988.58	1,884.41	104.16	19.091		
11,547.29	9,673.00	16,540.83	9,896.94	41.39	63.65	95.57	-2,261.62	-155.56	1,988.45	1,883.87	104.58	19.014		
11,600.00	9,673.00	16,578.90	9,896.77	41.58	63.90	95.56	-2,299.69	-155.54	1,988.65	1,883.65	104.99	18.941		
11,700.00	9,673.00	16,704.42	9,895.87	41.93	64.71	95.53	-2,425.20	-155.87	1,989.43	1,883.24	106.19	18.735		
11,800.00	9,673.00	16,794.95	9,895.24	42.30	65.30	95.52	-2,515.73	-155.17	1,989.05	1,881.92	107.14	18.566		
11,900.00	9,673.00	16,904.32	9,894.37	42.67	66.01	95.49	-2,625.09	-154.48	1,988.80	1,880.56	108.24	18.374		
12,000.00	9,673.00	16,992.00	9,893.68	43.06	66.59	95.47	-2,712.76	-153.68	1,988.31	1,879.12	109.19	18.210		
12,021.45	9,673.00	17,015.01	9,893.60	43.14	66.74	95.47	-2,735.77	-153.52	1,988.24	1,878.82	109.43	18.170		
12,100.00	9,673.00	17,068.27	9,893.32	43.45	67.09	95.46	-2,789.03	-153.64	1,988.74	1,878.70	110.05	18.071		
12,200.00	9,673.00	17,197.52	9,892.15	43.85	67.94	95.43	-2,918.27	-154.29	1,989.71	1,878.36	111.35	17.869		
12,300.00	9,673.00	17,312.04	9,891.06	44.26	68.70	95.40	-3,032.77	-152.85	1,988.77	1,876.22	112.55	17.670		
12,376.40	9,673.00	17,370.00	9,890.04	44.58	69.08	95.37	-3,090.72	-152.35	1,988.35	1,875.11	113.23	17.560		
12,400.00	9,673.00	17,370.00	9,890.04	44.68	69.08	95.37	-3,090.72	-152.35	1,988.49	1,875.20	113.29	17.552		
12,500.00	9,673.00	17,410.73	9,889.17	45.11	69.35	95.34	-3,131.44	-153.05	1,990.88	1,877.03	113.84	17.488		
12,600.00	9,673.00	17,464.00	9,888.11	45.55	69.70	95.30	-3,184.56	-156.67	1,997.11	1,882.64	114.47	17.446		
12,700.00	9,673.00	17,735.60	9,889.99	45.99	71.52	95.34	-3,455.93	-159.79	1,997.84	1,880.68	117.16	17.052		
12,800.00	9,673.00	17,849.32	9,890.19	46.44	72.28	95.36	-3,569.61	-156.47	1,995.40	1,876.99	118.41	16.852		
12,900.00	9,673.00	17,949.80	9,890.72	46.90	72.96	95.38	-3,670.04	-153.09	1,992.55	1,872.98	119.56	16.665		
13,000.00	9,673.00	18,038.45	9,891.08	47.37	73.56	95.40	-3,758.64	-150.48	1,990.10	1,869.46	120.63	16.497		
13,100.00	9,673.00	18,144.48	9,891.19	47.84	74.28	95.41	-3,864.62	-147.22	1,987.48	1,865.63	121.85	16.311		
13,200.00	9,673.00	18,216.00	9,891.45	48.32	74.77	95.42	-3,936.12	-145.49	1,985.59	1,862.80	122.79	16.170		
13,287.71	9,673.00	18,281.89	9,891.79	48.75	75.22	95.43	-4,002.01	-144.73	1,985.04	1,861.40	123.64	16.055	CC	
13,300.00	9,673.00	18,290.73	9,891.82	48.81	75.28	95.43	-4,010.84	-144.70	1,985.05	1,861.30	123.75	16.040		
13,400.00	9,673.00	18,381.00	9,892.26	49.30	75.89	95.44	-4,101.11	-144.75	1,985.60	1,860.74	124.85	15.903	ES	
13,500.00	9,673.00	18,454.88	9,892.80	49.80	76.40	95.45	-4,174.99	-145.20	1,986.78	1,860.98	125.80	15.793		
13,600.00	9,673.00	18,523.66	9,893.19	50.31	76.87	95.46	-4,243.75	-146.80	1,989.58	1,862.90	126.68	15.705		
13,700.00	9,673.00	18,598.82	9,893.02	50.82	77.38	95.45	-4,318.85	-149.68	1,993.81	1,866.19	127.61	15.624		
13,800.00	9,673.00	18,718.59	9,891.87	51.34	78.20	95.40	-4,438.52	-154.46	1,998.15	1,869.12	129.03	15.486		
13,900.00	9,673.00	18,846.65	9,891.21	51.87	79.07	95.37	-4,566.53	-157.90	2,001.22	1,870.68	130.55	15.330		
14,000.00	9,673.00	18,932.65	9,890.99	52.40	79.66	95.36	-4,652.51	-159.69	2,003.75	1,872.13	131.62	15.223		
14,100.00	9,673.00	19,079.79	9,890.31	52.94	80.68	95.33	-4,799.61	-162.73	2,006.68	1,873.35	133.33	15.050		
14,200.00	9,673.00	19,156.00	9,890.00	53.49	81.20	95.39	-4,875.81	-163.80	2,018.36	1,884.01	134.34	15.024	SF	
14,300.00	9,673.00	19,249.73	9,889.41	54.08	81.85	95.53	-4,969.53	-165.36	2,045.17	1,909.64	135.53	15.090		
14,400.00	9,673.00	19,417.25	9,888.30	54.68	83.02	95.67	-5,137.03	-164.27	2,083.73	1,946.30	137.43	15.162		
14,500.00	9,673.00	19,493.03	9,888.06	55.27	83.55	96.07	-5,212.78	-162.50	2,134.66	1,996.21	138.44	15.419		
14,600.00	9,673.00	19,524.00	9,887.95	55.84	83.76	96.82	-5,243.75	-162.00	2,198.90	2,059.91	138.99	15.820		
14,700.00	9,673.00	19,524.00	9,887.95	56.38	83.76	98.19	-5,243.75	-162.00	2,275.78	2,136.66	139.12	16.358		
14,800.00	9,673.00	19,524.00	9,887.95	56.88	83.76	100.71	-5,243.75	-162.00	2,362.60	2,223.43	139.17	16.976		
14,900.00	9,673.00	19,524.00	9,887.95	57.31	83.76	106.28	-5,243.75	-162.00	2,456.41	2,317.23	139.18	17.649		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,000.00	9,673.00	19,524.00	9,887.95	57.68	83.76	125.53	-5,243.75	-162.00	2,554.42	2,415.25	139.18	18.354		
15,100.00	9,673.00	19,524.00	9,887.95	57.96	83.76	-143.54	-5,243.75	-162.00	2,654.05	2,514.87	139.18	19.069		
15,200.00	9,673.00	19,524.00	9,887.95	58.17	83.76	-108.77	-5,243.75	-162.00	2,752.94	2,613.75	139.20	19.777		
15,300.00	9,673.00	19,524.00	9,887.95	58.28	83.76	-100.96	-5,243.75	-162.00	2,849.04	2,709.81	139.23	20.463		
15,400.00	9,673.00	19,524.00	9,887.95	58.32	83.76	-97.75	-5,243.75	-162.00	2,940.50	2,801.24	139.26	21.115		
15,500.00	9,673.00	19,524.00	9,887.95	58.28	83.76	-96.05	-5,243.75	-162.00	3,025.74	2,886.45	139.29	21.723		
15,600.00	9,673.00	19,524.00	9,887.95	58.17	83.76	-95.01	-5,243.75	-162.00	3,103.39	2,964.09	139.30	22.279		
15,700.00	9,673.00	19,524.00	9,887.95	58.00	83.76	-94.34	-5,243.75	-162.00	3,172.29	3,033.01	139.28	22.776		
15,800.00	9,673.00	19,471.70	9,888.13	57.78	83.40	-93.84	-5,191.45	-162.88	3,230.80	3,092.07	138.72	23.290		
15,900.00	9,673.00	19,302.89	9,888.90	57.54	82.22	-93.48	-5,022.68	-165.89	3,277.20	3,140.19	137.01	23.920		
16,000.00	9,673.00	19,162.03	9,889.99	57.27	81.25	-93.30	-4,881.84	-163.90	3,305.80	3,170.19	135.60	24.379		
16,100.00	9,673.00	19,085.13	9,890.30	56.99	80.71	-93.22	-4,804.95	-162.84	3,319.84	3,184.93	134.90	24.609		
16,200.00	9,673.00	18,931.00	9,891.00	56.72	79.65	-93.23	-4,650.86	-159.64	3,320.16	3,186.75	133.41	24.886		
16,300.00	9,673.00	18,856.73	9,891.18	56.46	79.14	-93.24	-4,576.61	-158.10	3,317.63	3,184.84	132.79	24.984		
16,400.00	9,673.00	18,698.22	9,892.03	56.21	78.06	-93.25	-4,418.17	-153.74	3,314.48	3,183.21	131.28	25.248		
16,500.00	9,673.00	18,592.00	9,893.06	55.97	77.33	-93.28	-4,312.04	-149.38	3,309.98	3,179.63	130.34	25.394		
16,600.00	9,673.00	18,518.76	9,893.17	55.73	76.83	-93.28	-4,238.85	-146.65	3,305.91	3,176.14	129.77	25.475		
16,700.00	9,673.00	18,462.12	9,892.85	55.50	76.45	-93.28	-4,182.23	-145.32	3,303.10	3,173.73	129.37	25.532		
16,800.00	9,673.00	18,404.00	9,892.43	55.28	76.05	-93.27	-4,124.11	-144.79	3,301.66	3,172.72	128.95	25.605		
16,900.00	9,673.00	18,314.71	9,891.91	55.06	75.44	-93.26	-4,034.82	-144.68	3,301.05	3,172.84	128.22	25.746		
16,949.18	9,673.00	18,283.27	9,891.79	54.96	75.23	-93.26	-4,003.39	-144.72	3,300.91	3,172.93	127.98	25.792		
17,000.00	9,673.00	18,252.59	9,891.65	54.86	75.02	-93.26	-3,972.70	-144.96	3,301.06	3,173.31	127.75	25.839		
17,100.00	9,673.00	18,190.79	9,891.32	54.66	74.60	-93.25	-3,910.91	-146.00	3,302.27	3,174.97	127.29	25.943		
17,200.00	9,673.00	18,132.34	9,891.17	54.47	74.20	-93.25	-3,852.49	-147.58	3,304.57	3,177.71	126.86	26.050		
17,300.00	9,673.00	18,009.68	9,891.00	54.28	73.37	-93.24	-3,729.89	-151.26	3,307.09	3,181.23	125.86	26.277		
17,400.00	9,673.00	17,930.42	9,890.60	54.11	72.83	-93.23	-3,650.66	-153.75	3,309.75	3,184.50	125.25	26.425		
17,500.00	9,673.00	17,820.06	9,890.11	53.94	72.09	-93.22	-3,540.36	-157.41	3,312.60	3,188.21	124.39	26.632		
17,600.00	9,673.00	17,464.00	9,888.11	53.78	69.70	-93.19	-3,184.56	-156.67	3,313.27	3,192.06	121.21	27.335		
17,700.00	9,673.00	17,370.00	9,890.04	53.63	69.08	-93.23	-3,090.72	-152.35	3,308.35	3,187.79	120.56	27.441		
17,800.00	9,673.00	17,370.00	9,890.04	53.49	69.08	-93.23	-3,090.72	-152.35	3,304.97	3,184.15	120.82	27.354		
17,861.22	9,673.00	17,370.00	9,890.04	53.40	69.08	-93.23	-3,090.72	-152.35	3,304.39	3,183.44	120.95	27.320		
17,900.00	9,673.00	17,346.72	9,890.51	53.35	68.93	-93.24	-3,067.45	-152.50	3,304.49	3,183.68	120.82	27.352		
18,000.00	9,673.00	17,278.97	9,891.43	53.23	68.48	-93.25	-2,999.71	-153.34	3,305.39	3,184.99	120.40	27.453		
18,100.00	9,673.00	17,087.00	9,893.19	53.11	67.21	-93.28	-2,807.76	-153.85	3,305.13	3,186.21	118.92	27.794		
18,200.00	9,673.00	17,024.30	9,893.56	53.00	66.80	-93.29	-2,745.06	-153.49	3,304.21	3,185.63	118.58	27.864		
18,216.99	9,673.00	17,014.84	9,893.60	52.99	66.74	-93.29	-2,735.60	-153.52	3,304.19	3,185.66	118.54	27.875		
18,300.00	9,673.00	16,948.85	9,893.91	52.91	66.31	-93.29	-2,669.61	-154.09	3,304.53	3,186.39	118.14	27.971		
18,400.00	9,673.00	16,837.52	9,895.06	52.82	65.58	-93.31	-2,558.30	-154.96	3,304.94	3,187.53	117.41	28.150		
18,500.00	9,673.00	16,745.27	9,895.50	52.74	64.98	-93.32	-2,466.05	-155.49	3,305.11	3,188.27	116.84	28.287		
18,600.00	9,673.00	16,596.08	9,896.68	52.67	64.01	-93.34	-2,316.86	-155.63	3,304.82	3,189.00	115.82	28.534		
18,700.00	9,673.00	16,522.00	9,897.01	52.62	63.53	-93.35	-2,242.79	-155.67	3,304.38	3,188.93	115.44	28.623		
18,709.43	9,673.00	16,522.00	9,897.01	52.61	63.53	-93.35	-2,242.79	-155.67	3,304.36	3,188.90	115.47	28.618		
18,800.00	9,673.00	16,440.51	9,897.35	52.57	63.01	-93.35	-2,161.30	-156.27	3,304.63	3,189.62	115.01	28.734		
18,900.00	9,673.00	16,354.43	9,897.75	52.54	62.46	-93.36	-2,075.22	-157.00	3,305.07	3,190.52	114.55	28.853		
19,000.00	9,673.00	16,273.25	9,898.02	52.51	61.94	-93.36	-1,994.05	-158.12	3,306.03	3,191.90	114.13	28.966		
19,100.00	9,673.00	16,146.00	9,898.11	52.50	61.13	-93.37	-1,866.81	-159.77	3,306.89	3,193.51	113.37	29.168		
19,200.00	9,673.00	16,046.92	9,898.33	52.50	60.51	-93.37	-1,767.74	-160.62	3,307.32	3,194.47	112.85	29.307		
19,300.00	9,673.00	15,959.00	9,898.62	52.51	59.96	-93.37	-1,679.82	-161.40	3,307.80	3,195.38	112.43	29.422		
19,400.00	9,673.00	15,865.00	9,898.96	52.53	59.37	-93.38	-1,585.83	-162.71	3,308.77	3,196.81	111.97	29.552		
19,500.00	9,673.00	15,749.16	9,899.64	52.57	58.65	-93.39	-1,470.01	-164.45	3,309.91	3,198.55	111.36	29.723		
19,600.00	9,673.00	15,655.85	9,900.03	52.62	58.07	-93.39	-1,376.70	-165.48	3,310.59	3,199.66	110.93	29.843		
19,700.00	9,673.00	15,530.45	9,900.28	52.68	57.30	-93.40	-1,251.31	-166.58	3,311.07	3,200.78	110.29	30.021		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
19,774.57	9,673.00	15,457.19	9,900.54	52.73	56.85	-93.40	-1,178.05	-166.72	3,310.90	3,200.93	109.97	30.108		
19,800.00	9,673.00	15,439.36	9,900.59	52.75	56.74	-93.40	-1,160.23	-166.82	3,310.93	3,201.02	109.91	30.124		
19,900.00	9,673.00	15,352.47	9,900.78	52.84	56.21	-93.41	-1,073.34	-167.72	3,311.51	3,201.94	109.57	30.223		
20,000.00	9,673.00	15,247.41	9,900.74	52.94	55.58	-93.41	-968.28	-168.71	3,312.01	3,202.90	109.12	30.353		
20,100.00	9,673.00	15,150.25	9,900.67	53.06	55.00	-93.40	-871.13	-169.64	3,312.51	3,203.79	108.73	30.466		
20,200.00	9,673.00	15,036.10	9,900.42	53.19	54.32	-93.40	-756.98	-170.65	3,312.96	3,204.72	108.24	30.607		
20,300.00	9,673.00	14,929.70	9,900.30	53.33	53.69	-93.40	-650.58	-171.13	3,312.96	3,205.14	107.82	30.726		
20,303.77	9,673.00	14,928.00	9,900.30	53.34	53.68	-93.40	-648.88	-171.14	3,312.96	3,205.14	107.82	30.726		
20,400.00	9,673.00	14,866.87	9,900.19	53.49	53.32	-93.39	-587.75	-171.72	3,313.45	3,205.75	107.70	30.765		
20,500.00	9,673.00	14,773.77	9,899.91	53.66	52.78	-93.39	-494.68	-173.48	3,314.86	3,207.47	107.39	30.867		
20,600.00	9,673.00	14,646.00	9,899.60	53.84	52.04	-93.38	-366.92	-175.04	3,315.60	3,208.72	106.88	31.022		
20,610.93	9,673.00	14,630.88	9,899.54	54.93	51.96	-93.38	-351.79	-175.15	3,315.62	3,208.83	106.80	31.045		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	30.37	30.37	0.00	0.05	1.98	4,645.18	160.36	4,647.95					
100.00	100.00	127.71	127.71	0.28	0.20	1.98	4,645.23	160.22	4,648.00	4,647.52	0.48	9,708.678		
200.00	200.00	223.14	223.14	0.63	0.40	1.97	4,645.35	159.89	4,648.11	4,647.07	1.03	4,499.898		
300.00	300.00	314.30	314.29	0.99	0.73	1.96	4,645.63	159.24	4,648.39	4,646.67	1.72	2,705.338		
400.00	400.00	409.24	409.23	1.35	1.07	1.95	4,646.02	158.28	4,648.76	4,646.35	2.42	1,923.961		
500.00	500.00	478.00	477.99	1.71	1.31	1.95	4,646.49	157.93	4,649.47	4,646.46	3.02	1,540.377		
600.00	599.98	569.00	568.98	2.05	1.63	-178.05	4,647.62	157.95	4,652.47	4,648.79	3.68	1,264.076		
700.00	699.84	634.49	634.46	2.39	1.86	-178.05	4,648.80	157.98	4,659.46	4,655.21	4.25	1,096.636		
800.00	799.49	703.26	703.21	2.73	2.10	-178.05	4,650.46	157.80	4,670.12	4,665.29	4.84	965.490		
900.00	899.11	809.47	809.38	3.07	2.48	-178.06	4,653.56	157.26	4,681.74	4,676.18	5.56	842.596		
1,000.00	998.73	991.40	991.28	3.42	3.13	-178.07	4,656.69	157.38	4,692.18	4,685.63	6.55	716.517		
1,100.00	1,098.36	1,172.95	1,172.81	3.77	3.76	-155.34	4,656.33	155.72	4,700.15	4,692.62	7.53	624.207		
1,200.00	1,197.92	1,287.91	1,287.75	4.12	4.16	-135.66	4,655.16	154.53	4,706.72	4,698.45	8.28	568.752		
1,300.00	1,297.29	1,394.12	1,393.95	4.48	4.52	-121.83	4,653.77	153.40	4,712.25	4,703.26	8.99	523.927		
1,400.00	1,396.36	1,481.21	1,481.03	4.84	4.82	-112.60	4,652.62	152.64	4,717.13	4,707.48	9.65	488.840		
1,500.00	1,495.00	1,583.14	1,582.95	5.20	5.18	-106.40	4,651.54	151.86	4,721.46	4,711.10	10.36	455.770		
1,600.00	1,593.09	1,643.13	1,642.94	5.56	5.39	-101.98	4,651.02	151.44	4,725.39	4,714.46	10.93	432.437		
1,700.00	1,690.51	1,689.00	1,688.81	5.92	5.55	-98.72	4,651.02	151.07	4,729.57	4,718.12	11.45	413.156		
1,800.00	1,787.29	1,783.00	1,782.80	6.28	5.88	-97.81	4,651.70	150.01	4,733.89	4,721.75	12.15	389.749		
1,900.00	1,883.98	1,875.26	1,875.05	6.65	6.21	-98.11	4,652.59	149.00	4,738.51	4,725.66	12.84	368.961		
2,000.00	1,980.68	2,001.51	2,001.28	7.02	6.65	-98.48	4,653.28	150.04	4,742.88	4,729.22	13.65	347.415		
2,100.00	2,077.38	2,114.48	2,114.20	7.39	7.03	-98.78	4,653.26	153.67	4,746.78	4,732.37	14.41	329.406		
2,200.00	2,174.08	2,225.44	2,225.14	7.77	7.41	-99.10	4,653.06	155.27	4,750.68	4,735.51	15.17	313.265		
2,300.00	2,270.78	2,327.56	2,327.26	8.15	7.76	-99.40	4,652.53	155.93	4,754.37	4,738.47	15.89	299.154		
2,400.00	2,367.48	2,390.46	2,390.16	8.53	7.97	-99.59	4,652.35	156.22	4,758.46	4,741.97	16.49	288.586		
2,500.00	2,464.17	2,442.00	2,441.70	8.92	8.15	-99.75	4,652.66	156.06	4,763.53	4,746.48	17.05	279.449		
2,600.00	2,560.87	2,495.00	2,494.68	9.30	8.34	-99.92	4,653.69	155.08	4,769.88	4,752.27	17.61	270.840		
2,700.00	2,657.57	2,541.54	2,541.18	9.69	8.51	-100.07	4,655.05	153.69	4,777.31	4,759.16	18.15	263.181		
2,800.00	2,754.27	2,627.87	2,627.44	10.08	8.81	-100.36	4,657.71	151.30	4,785.28	4,766.44	18.84	253.986		
2,900.00	2,850.97	2,725.23	2,724.71	10.47	9.16	-100.68	4,660.82	148.71	4,793.50	4,773.92	19.57	244.923		
3,000.00	2,947.66	2,915.83	2,915.10	10.86	9.83	-101.34	4,665.02	141.03	4,801.10	4,780.45	20.65	232.497		
3,100.00	3,044.36	3,019.35	3,018.48	11.25	10.20	-101.71	4,665.95	135.77	4,807.60	4,786.20	21.41	224.593		
3,200.00	3,141.06	3,117.16	3,116.15	11.64	10.55	-102.06	4,666.75	130.47	4,814.23	4,792.09	22.14	217.432		
3,300.00	3,237.76	3,218.08	3,216.90	12.03	10.91	-102.42	4,667.48	124.80	4,820.97	4,798.08	22.89	210.623		
3,400.00	3,334.46	3,324.66	3,323.14	12.43	11.29	-102.83	4,667.92	116.31	4,827.80	4,804.14	23.66	204.063		
3,500.00	3,431.16	3,442.57	3,440.38	12.82	11.71	-103.32	4,667.46	103.77	4,834.27	4,809.80	24.47	197.559		
3,600.00	3,527.85	3,526.90	3,524.20	13.21	12.01	-103.68	4,667.08	94.54	4,841.01	4,815.85	25.16	192.421		
3,700.00	3,624.55	3,613.07	3,609.67	13.61	12.32	-104.05	4,666.72	83.59	4,848.20	4,822.34	25.85	187.522		
3,800.00	3,721.25	3,680.00	3,675.93	14.00	12.56	-104.36	4,666.35	74.16	4,855.76	4,829.28	26.48	183.392		
3,900.00	3,817.95	3,741.42	3,736.62	14.40	12.78	-104.64	4,666.28	64.76	4,864.17	4,837.09	27.08	179.627		
4,000.00	3,914.65	3,798.83	3,793.23	14.79	12.98	-104.91	4,666.75	55.25	4,873.74	4,846.08	27.66	176.175		
4,100.00	4,011.35	3,910.76	3,903.33	15.19	13.39	-105.46	4,667.66	35.06	4,883.92	4,855.46	28.46	171.606		
4,200.00	4,108.04	4,074.45	4,063.76	15.59	13.98	-106.29	4,666.41	2.62	4,893.14	4,863.68	29.46	166.110		
4,300.00	4,204.74	4,177.35	4,164.64	15.98	14.35	-106.81	4,664.90	-17.63	4,902.19	4,871.96	30.22	162.210		
4,400.00	4,301.44	4,292.26	4,277.05	16.38	14.77	-107.40	4,662.56	-41.35	4,911.26	4,880.23	31.03	158.259		
4,500.00	4,398.14	4,367.25	4,350.12	16.78	15.05	-107.80	4,660.56	-58.10	4,920.45	4,888.76	31.69	155.261		
4,600.00	4,494.84	4,435.00	4,416.07	17.17	15.30	-108.16	4,659.41	-73.54	4,930.85	4,898.53	32.32	152.559		
4,700.00	4,591.53	4,465.72	4,445.96	17.57	15.41	-108.33	4,659.13	-80.59	4,942.20	4,909.40	32.80	150.673		
4,800.00	4,688.23	4,530.00	4,508.48	17.97	15.65	-108.67	4,658.72	-95.57	4,954.55	4,921.13	33.41	148.285		
4,900.00	4,784.93	4,580.52	4,557.58	18.37	15.83	-108.94	4,658.70	-107.45	4,967.86	4,933.89	33.97	146.261		
5,000.00	4,881.63	4,625.00	4,600.82	18.77	16.00	-109.18	4,659.01	-117.89	4,982.26	4,947.77	34.49	144.456		
5,100.00	4,978.33	4,670.00	4,645.12	19.16	16.17	-109.42	4,659.32	-128.82	4,997.71	4,963.22	34.96	142.761		
5,200.00	5,075.03	4,715.00	4,689.12	19.55	16.34	-109.66	4,659.63	-139.75	5,013.16	4,978.67	35.43	141.116		
5,300.00	5,171.73	4,760.00	4,733.12	19.94	16.51	-109.90	4,659.94	-150.68	5,028.61	4,994.12	35.90	139.521		
5,400.00	5,268.43	4,805.00	4,777.12	20.33	16.68	-110.14	4,660.25	-161.61	5,044.06	5,009.57	36.37	137.976		
5,500.00	5,365.13	4,850.00	4,822.12	20.72	16.85	-110.38	4,660.56	-172.54	5,059.51	5,025.02	36.84	136.481		
5,600.00	5,461.83	4,895.00	4,867.12	21.11	17.02	-110.62	4,660.87	-183.47	5,074.96	5,040.47	37.31	135.036		
5,700.00	5,558.53	4,940.00	4,912.12	21.50	17.19	-110.86	4,661.18	-194.40	5,090.41	5,055.92	37.78	133.641		
5,800.00	5,655.23	4,985.00	4,957.12	21.89	17.36	-111.10	4,661.49	-205.33	5,105.86	5,071.37	38.25	132.296		
5,900.00	5,751.93	5,030.00	5,002.12	22.28	17.53	-111.34	4,661.80	-216.26	5,121.31	5,086.82	38.72	130.951		
6,000.00	5,848.63	5,075.00	5,047.12	22.67	17.70	-111.58	4,662.11	-227.19	5,136.76	5,102.27	39.19	129.656		
6,100.00	5,945.33	5,120.00	5,092.12	23.06	17.87	-111.82	4,662.42	-238.12	5,152.21	5,117.72	39.66	128.411		
6,200.00	6,042.03	5,165.00	5,137.12	23.45	18.04	-112.06	4,662.73	-249.05	5,167.66	5,133.17	40.13	127.216		
6,300.00	6,138.73	5,210.00	5,182.12	23.84	18.21	-112.30	4,663.04	-260.00	5,183.11	5,148.62	40.60	126.071		
6,400.00	6,235.43	5,255.00	5,227.12	24.23	18.38	-112.54	4,663.35	-270.93	5,198.56	5,164.07	41.07	124.976		
6,500.00	6,332.13	5,300.00	5,272.12	24.62	18.55	-112.78	4,663.66	-281.86	5,214.01	5,179.52	41.54	123.931		
6,600.00	6,428.83	5,345.00	5,317.12	25.01	18.72	-113.02	4,663.97	-292.79	5,229.46	5,194.97	42.01	122.936		
6,700.00	6,525.53	5,390.00	5,362.12	25.40	18.89	-113.26	4,664.28	-303.72	5,244.91	5,210.42	42.48	122.091		
6,800.00	6,622.23	5,435.00	5,407.12	25.79	19.06	-113.50	4,664.59	-314.65	5,260.36	5,225.87	42.95	121.296		
6,900.00	6,718.93	5,480.00	5,452.12	26.18	19.23	-113.74	4,664.90	-325.58	5,275.81	5,241.32	43.42	120.551	</	

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.00	5,075.03	14,359.00	9,663.15	19.56	51.13	175.24	-180.76	-835.92	4,899.92	4,846.85	53.07	92.326		
5,300.00	5,171.72	14,359.00	9,663.15	19.96	51.13	175.24	-180.76	-835.92	4,819.64	4,766.15	53.49	90.100		
5,400.00	5,268.42	14,361.43	9,663.16	20.36	51.15	175.19	-183.20	-835.95	4,740.10	4,686.16	53.94	87.871		
5,500.00	5,365.12	14,365.55	9,663.17	20.76	51.17	175.11	-187.32	-836.00	4,661.35	4,606.93	54.42	85.651		
5,600.00	5,461.82	14,369.72	9,663.18	21.16	51.19	175.03	-191.48	-836.06	4,583.43	4,528.51	54.92	83.459		
5,700.00	5,558.52	14,373.93	9,663.20	21.56	51.22	174.94	-195.69	-836.11	4,506.38	4,450.94	55.43	81.295		
5,800.00	5,655.21	14,378.18	9,663.21	21.96	51.24	174.86	-199.95	-836.16	4,430.23	4,374.27	55.96	79.162		
5,900.00	5,751.91	14,382.49	9,663.23	22.35	51.27	174.78	-204.25	-836.20	4,355.05	4,298.54	56.52	77.060		
6,000.00	5,848.61	14,386.84	9,663.24	22.75	51.29	174.69	-208.60	-836.25	4,280.89	4,223.80	57.09	74.990		
6,100.00	5,945.31	14,391.24	9,663.26	23.15	51.31	174.60	-213.00	-836.30	4,207.78	4,150.10	57.68	72.953		
6,200.00	6,042.01	14,395.69	9,663.28	23.55	51.34	174.51	-217.45	-836.34	4,135.80	4,077.51	58.29	70.951		
6,300.00	6,138.71	14,400.19	9,663.29	23.95	51.37	174.43	-221.95	-836.38	4,065.00	4,006.07	58.93	68.984		
6,400.00	6,235.40	14,404.74	9,663.31	24.35	51.39	174.34	-226.50	-836.42	3,995.44	3,935.86	59.59	67.054		
6,500.00	6,332.10	14,409.34	9,663.33	24.75	51.42	174.24	-231.10	-836.46	3,927.20	3,866.93	60.27	65.163		
6,600.00	6,428.80	14,413.99	9,663.35	25.15	51.44	174.15	-235.75	-836.50	3,860.33	3,799.35	60.97	63.311		
6,700.00	6,525.50	14,418.70	9,663.37	25.55	51.47	174.06	-240.46	-836.54	3,794.91	3,733.21	61.70	61.501		
6,800.00	6,622.20	14,423.47	9,663.39	25.95	51.50	173.97	-245.23	-836.57	3,731.02	3,668.56	62.46	59.733		
6,900.00	6,718.89	14,428.28	9,663.42	26.35	51.52	173.87	-250.04	-836.60	3,668.75	3,605.50	63.24	58.010		
7,000.00	6,815.59	14,433.16	9,663.44	26.75	51.55	173.77	-254.92	-836.63	3,608.16	3,544.11	64.05	56.332		
7,100.00	6,912.29	14,438.09	9,663.46	27.15	51.58	173.68	-259.85	-836.66	3,549.35	3,484.46	64.88	54.702		
7,200.00	7,008.99	14,443.08	9,663.49	27.55	51.61	173.58	-264.84	-836.69	3,492.41	3,426.66	65.74	53.121		
7,300.00	7,105.69	14,448.13	9,663.52	27.95	51.63	173.48	-269.89	-836.71	3,437.42	3,370.80	66.63	51.591		
7,400.00	7,202.39	14,453.25	9,663.54	28.35	51.66	173.38	-275.00	-836.73	3,384.50	3,316.96	67.54	50.113		
7,500.00	7,299.08	14,458.42	9,663.57	28.75	51.69	173.27	-280.18	-836.75	3,333.73	3,265.26	68.47	48.689		
7,600.00	7,395.78	14,463.05	9,663.59	29.15	51.72	173.18	-284.81	-836.77	3,285.21	3,215.79	69.42	47.322		
7,700.00	7,492.48	14,467.84	9,663.62	29.56	51.75	173.09	-289.60	-836.79	3,239.04	3,168.65	70.39	46.013		
7,800.00	7,589.18	14,472.56	9,663.64	29.96	51.77	172.99	-294.32	-836.81	3,195.34	3,123.95	71.38	44.762		
7,900.00	7,685.98	14,477.13	9,663.65	30.36	51.80	172.87	-298.89	-836.83	3,153.83	3,081.44	72.39	43.568		
8,000.00	7,783.18	14,481.37	9,663.67	30.75	51.82	172.73	-303.13	-836.85	3,113.45	3,040.06	73.39	42.422		
8,100.00	7,880.77	14,485.28	9,663.68	31.14	51.84	172.59	-307.03	-836.87	3,074.19	2,999.79	74.40	41.322		
8,200.00	7,978.73	14,488.84	9,663.69	31.53	51.86	172.47	-310.60	-836.88	3,036.09	2,960.69	75.39	40.270		
8,300.00	8,077.03	14,492.08	9,663.70	31.91	51.88	172.35	-313.84	-836.90	2,999.21	2,922.83	76.38	39.265		
8,400.00	8,175.63	14,495.00	9,663.71	32.28	51.90	172.24	-316.76	-836.91	2,963.62	2,886.25	77.36	38.307		
8,500.00	8,274.51	14,497.61	9,663.71	32.65	51.91	172.13	-319.37	-836.92	2,929.36	2,851.03	78.33	37.397		
8,600.00	8,373.63	14,499.90	9,663.72	33.02	51.93	172.04	-321.66	-836.93	2,896.51	2,817.23	79.28	36.535		
8,700.00	8,472.97	14,501.90	9,663.72	33.37	51.94	171.95	-323.66	-836.94	2,865.11	2,784.90	80.21	35.720		
8,800.00	8,572.50	14,503.60	9,663.73	33.73	51.95	171.87	-325.36	-836.95	2,835.23	2,754.11	81.11	34.954		
8,900.00	8,672.17	14,505.01	9,663.73	34.08	51.96	171.80	-326.77	-836.96	2,806.92	2,724.93	81.99	34.235		
9,000.00	8,771.98	14,506.14	9,663.73	34.42	51.96	171.74	-327.90	-836.96	2,780.24	2,697.41	82.83	33.565		
9,100.00	8,871.87	14,506.99	9,663.73	34.76	51.97	171.68	-328.74	-836.96	2,755.25	2,671.61	83.64	32.942		
9,200.00	8,971.83	14,507.56	9,663.73	35.10	51.97	171.63	-329.32	-836.97	2,732.01	2,647.60	84.41	32.368		
9,300.00	9,071.83	14,507.87	9,663.73	35.42	51.97	171.59	-329.63	-836.97	2,710.55	2,625.44	85.12	31.845		
9,400.00	9,171.44	14,515.31	9,663.74	35.73	52.01	92.10	-337.07	-837.00	2,691.78	2,605.96	85.82	31.364		
9,500.00	9,268.29	14,539.68	9,663.75	36.04	52.15	93.08	-361.43	-837.12	2,677.12	2,590.54	86.58	30.921		
9,600.00	9,359.44	14,581.02	9,663.72	36.33	52.39	93.32	-402.77	-837.33	2,666.62	2,579.25	87.37	30.521		
9,700.00	9,442.11	14,638.17	9,663.76	36.59	52.71	92.98	-459.92	-837.58	2,659.92	2,571.74	88.18	30.165		
9,800.00	9,513.79	14,695.60	9,663.80	36.83	53.04	92.43	-517.35	-837.95	2,656.51	2,567.57	88.94	29.870		
9,900.00	9,572.31	14,778.06	9,663.63	37.05	53.52	91.48	-599.81	-838.80	2,655.72	2,565.97	89.75	29.590		
9,911.02	9,577.88	14,789.99	9,663.56	37.07	53.59	91.35	-611.74	-838.89	2,655.71	2,565.86	89.85	29.558		
10,000.00	9,615.89	14,867.97	9,662.83	37.26	54.04	90.57	-689.72	-839.38	2,656.06	2,565.51	90.55	29.333		
10,100.00	9,643.92	14,964.51	9,661.62	37.46	54.61	89.88	-786.24	-840.40	2,657.48	2,566.15	91.33	29.096		
10,200.00	9,662.03	15,074.95	9,660.39	37.67	55.26	89.36	-896.68	-840.84	2,658.45	2,566.28	92.17	28.843		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,300.00	9,671.50	15,160.77	9,659.82	37.89	55.77	89.12	-982.49	-841.28	2,659.56	2,566.69	92.88	28.636		
10,400.00	9,673.00	15,253.90	9,659.59	38.11	56.33	89.04	-1,075.62	-842.32	2,661.15	2,567.54	93.60	28.430		
10,500.00	9,673.00	15,395.67	9,659.00	38.34	57.18	89.03	-1,217.38	-843.04	2,662.20	2,567.60	94.59	28.145		
10,600.00	9,673.00	15,483.00	9,659.17	38.58	57.71	89.03	-1,304.71	-843.08	2,662.66	2,567.33	95.33	27.931		
10,700.00	9,673.00	15,566.00	9,659.23	38.83	58.22	89.03	-1,387.71	-843.52	2,663.61	2,567.55	96.06	27.729		
10,800.00	9,673.00	15,716.45	9,657.67	39.10	59.14	89.00	-1,538.14	-842.60	2,663.31	2,566.15	97.16	27.412		
10,900.00	9,673.00	15,813.70	9,656.51	39.37	59.75	88.97	-1,635.38	-841.51	2,662.67	2,564.66	98.00	27.169		
11,000.00	9,673.00	15,910.52	9,655.30	39.65	60.35	88.95	-1,732.18	-840.38	2,661.98	2,563.11	98.86	26.926		
11,100.00	9,673.00	16,005.97	9,653.94	39.95	60.95	88.92	-1,827.62	-839.52	2,661.56	2,561.83	99.73	26.688		
11,200.00	9,673.00	16,106.68	9,652.52	40.25	61.58	88.89	-1,928.31	-838.64	2,661.16	2,560.53	100.64	26.443		
11,300.00	9,673.00	16,205.27	9,651.41	40.57	62.20	88.86	-2,026.90	-837.78	2,660.77	2,559.21	101.55	26.201		
11,400.00	9,673.00	16,327.19	9,649.43	40.90	62.98	88.82	-2,148.80	-836.39	2,660.13	2,557.52	102.61	25.924		
11,500.00	9,673.00	16,398.62	9,648.15	41.23	63.43	88.79	-2,220.21	-835.58	2,659.49	2,556.09	103.40	25.720		
11,600.00	9,673.00	16,512.37	9,645.30	41.58	64.16	88.73	-2,333.91	-834.84	2,659.38	2,554.93	104.45	25.460		
11,700.00	9,673.00	16,628.81	9,642.74	41.93	64.92	88.68	-2,450.31	-833.10	2,658.38	2,552.85	105.53	25.191		
11,800.00	9,673.00	16,724.37	9,641.58	42.30	65.53	88.65	-2,545.86	-831.49	2,657.17	2,550.67	106.50	24.950		
11,900.00	9,673.00	16,811.81	9,641.12	42.67	66.10	88.64	-2,633.28	-830.40	2,656.39	2,548.95	107.44	24.725		
12,000.00	9,673.00	16,911.96	9,639.89	43.06	66.75	88.61	-2,733.42	-829.23	2,655.71	2,547.25	108.46	24.486		
12,100.00	9,673.00	16,996.86	9,639.01	43.45	67.31	88.59	-2,818.31	-828.58	2,655.41	2,546.02	109.40	24.273		
12,123.33	9,673.00	17,019.26	9,638.80	43.54	67.45	88.59	-2,840.72	-828.47	2,655.41	2,545.77	109.64	24.220		
12,200.00	9,673.00	17,093.18	9,637.71	43.85	67.94	88.57	-2,914.62	-828.15	2,655.45	2,545.03	110.42	24.049		
12,300.00	9,673.00	17,199.62	9,634.15	44.26	68.64	88.49	-3,021.00	-827.69	2,655.57	2,544.05	111.52	23.813		
12,400.00	9,673.00	17,311.32	9,632.56	44.68	69.38	88.45	-3,132.67	-826.44	2,654.91	2,542.24	112.67	23.564		
12,500.00	9,673.00	17,405.50	9,632.35	45.11	70.00	88.45	-3,226.85	-825.71	2,654.59	2,540.88	113.71	23.345		
12,600.00	9,673.00	17,508.12	9,631.54	45.55	70.68	88.43	-3,329.47	-824.72	2,654.09	2,539.27	114.82	23.115		
12,700.00	9,673.00	17,601.13	9,631.76	45.99	71.30	88.44	-3,422.47	-823.99	2,653.76	2,537.88	115.88	22.901		
12,800.00	9,673.00	17,702.41	9,631.68	46.44	71.97	88.43	-3,523.75	-823.39	2,653.62	2,536.61	117.00	22.680		
12,900.00	9,673.00	17,824.75	9,630.27	46.90	72.79	88.40	-3,646.08	-822.07	2,653.04	2,534.76	118.28	22.430		
13,000.00	9,673.00	17,940.48	9,628.98	47.37	73.57	88.37	-3,761.77	-819.77	2,651.52	2,532.00	119.52	22.184		
13,100.00	9,673.00	18,020.00	9,628.12	47.84	74.11	88.35	-3,841.28	-818.38	2,650.25	2,529.72	120.53	21.988		
13,200.00	9,673.00	18,140.09	9,626.77	48.32	74.92	88.32	-3,961.34	-816.22	2,648.93	2,527.11	121.83	21.744		
13,300.00	9,673.00	18,244.13	9,625.44	48.81	75.62	88.29	-4,065.34	-813.88	2,647.18	2,524.16	123.02	21.518		
13,400.00	9,673.00	18,343.32	9,624.17	49.30	76.30	88.27	-4,164.50	-811.58	2,645.35	2,521.16	124.19	21.301		
13,500.00	9,673.00	18,436.42	9,623.03	49.80	76.93	88.24	-4,257.57	-809.55	2,643.67	2,518.34	125.33	21.094		
13,600.00	9,673.00	18,524.73	9,622.06	50.31	77.54	88.22	-4,345.86	-807.96	2,642.35	2,515.92	126.43	20.899		
13,700.00	9,673.00	18,630.15	9,622.22	50.82	78.26	88.22	-4,451.27	-806.51	2,641.44	2,513.77	127.67	20.689		
13,800.00	9,673.00	18,751.85	9,622.23	51.34	79.09	88.22	-4,572.94	-803.61	2,639.47	2,510.43	129.04	20.455		
13,900.00	9,673.00	18,853.74	9,619.97	51.87	79.79	88.17	-4,674.76	-800.91	2,637.33	2,507.07	130.26	20.246		
14,000.00	9,673.00	18,973.53	9,618.21	52.40	80.62	88.13	-4,794.48	-797.30	2,634.84	2,503.22	131.62	20.018		
14,095.86	9,673.00	19,048.48	9,617.05	52.91	81.14	88.10	-4,869.39	-795.07	2,633.60	2,500.94	132.66	19.853		
14,100.00	9,673.00	19,051.82	9,616.97	52.94	81.16	88.10	-4,872.73	-794.99	2,632.57	2,499.87	132.70	19.838	CC, ES	
14,200.00	9,673.00	19,118.35	9,615.73	53.49	81.62	88.05	-4,939.23	-793.63	2,641.10	2,507.40	133.70	19.753	SF	
14,300.00	9,673.00	19,180.69	9,615.50	54.08	82.05	87.98	-5,001.56	-793.20	2,665.82	2,531.16	134.67	19.796		
14,400.00	9,673.00	19,249.00	9,614.25	54.68	82.52	87.84	-5,069.86	-793.66	2,706.08	2,570.43	135.65	19.949		
14,500.00	9,673.00	19,345.54	9,611.59	55.27	83.19	87.60	-5,166.36	-794.47	2,759.96	2,623.12	136.84	20.169		
14,600.00	9,673.00	19,430.00	9,610.03	55.84	83.78	87.29	-5,250.81	-794.41	2,825.15	2,687.24	137.91	20.485		
14,700.00	9,673.00	19,430.00	9,610.03	56.38	83.78	86.75	-5,250.81	-794.41	2,901.83	2,763.63	138.20	20.997		
14,800.00	9,673.00	19,430.00	9,610.03	56.88	83.78	85.76	-5,250.81	-794.41	2,988.29	2,849.90	138.39	21.593		
14,900.00	9,673.00	19,430.00	9,610.03	57.31	83.78	83.61	-5,250.81	-794.41	3,081.82	2,943.31	138.51	22.250		
15,000.00	9,673.00	19,430.00	9,610.03	57.68	83.78	75.92	-5,250.81	-794.41	3,179.74	3,041.16	138.58	22.945		
15,100.00	9,673.00	19,430.00	9,610.03	57.96	83.78	-50.24	-5,250.81	-794.41	3,279.52	3,140.91	138.61	23.660		
15,200.00	9,673.00	19,430.00	9,610.03	58.17	83.78	-81.29	-5,250.81	-794.41	3,378.79	3,240.18	138.61	24.377		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,300.00	9,673.00	19,430.00	9,610.03	58.28	83.78	-85.18	-5,250.81	-794.41	3,475.43	3,336.84	138.58	25.078		
15,400.00	9,673.00	19,430.00	9,610.03	58.32	83.78	-86.65	-5,250.81	-794.41	3,567.51	3,428.97	138.54	25.751		
15,500.00	9,673.00	19,430.00	9,610.03	58.28	83.78	-87.41	-5,250.81	-794.41	3,653.34	3,514.87	138.47	26.384		
15,600.00	9,673.00	19,430.00	9,610.03	58.17	83.78	-87.86	-5,250.81	-794.41	3,731.44	3,593.07	138.38	26.966		
15,700.00	9,673.00	19,388.52	9,610.70	58.00	83.49	-88.18	-5,209.33	-794.50	3,800.35	3,662.47	137.88	27.563		
15,800.00	9,673.00	19,249.00	9,614.25	57.78	82.52	-88.46	-5,069.86	-793.66	3,856.95	3,720.46	136.49	28.258		
15,900.00	9,673.00	19,197.68	9,615.33	57.54	82.17	-88.59	-5,018.55	-793.23	3,900.34	3,764.41	135.93	28.693		
16,000.00	9,673.00	19,155.00	9,615.58	57.27	81.87	-88.67	-4,975.88	-793.28	3,930.68	3,795.22	135.46	29.017		
16,100.00	9,673.00	19,091.27	9,616.09	56.99	81.43	-88.71	-4,912.15	-794.07	3,947.35	3,812.55	134.81	29.281		
16,200.00	9,673.00	19,027.68	9,617.48	56.72	80.99	-88.74	-4,848.60	-795.65	3,952.25	3,818.08	134.17	29.457		
16,300.00	9,673.00	18,942.41	9,618.44	56.46	80.40	-88.76	-4,763.38	-798.33	3,954.92	3,821.57	133.35	29.657		
16,400.00	9,673.00	18,820.85	9,620.71	56.21	79.57	-88.79	-4,641.89	-801.79	3,957.27	3,825.02	132.25	29.922		
16,500.00	9,673.00	18,718.62	9,622.57	55.97	78.86	-88.82	-4,539.72	-804.48	3,959.42	3,828.09	131.32	30.150		
16,600.00	9,673.00	18,567.71	9,621.94	55.73	77.83	-88.81	-4,388.83	-807.35	3,960.88	3,830.89	129.99	30.470		
16,700.00	9,673.00	18,489.00	9,622.39	55.50	77.29	-88.82	-4,310.14	-808.56	3,961.97	3,832.68	129.29	30.645		
16,800.00	9,673.00	18,395.00	9,623.54	55.28	76.65	-88.83	-4,216.16	-810.43	3,963.48	3,835.02	128.46	30.853		
16,900.00	9,673.00	18,308.08	9,624.62	55.06	76.06	-88.85	-4,129.27	-812.39	3,965.27	3,837.56	127.71	31.050		
17,000.00	9,673.00	18,206.35	9,625.94	54.86	75.37	-88.87	-4,027.58	-814.75	3,967.11	3,840.27	126.84	31.276		
17,100.00	9,673.00	18,092.14	9,627.31	54.66	74.59	-88.89	-3,913.40	-817.21	3,968.81	3,842.92	125.89	31.526		
17,200.00	9,673.00	17,983.65	9,628.52	54.47	73.86	-88.91	-3,804.93	-818.93	3,969.91	3,844.92	125.00	31.760		
17,300.00	9,673.00	17,900.96	9,629.39	54.28	73.31	-88.92	-3,722.27	-820.65	3,971.50	3,847.18	124.32	31.945		
17,400.00	9,673.00	17,754.62	9,631.13	54.11	72.32	-88.95	-3,575.95	-822.96	3,972.63	3,849.47	123.16	32.256		
17,500.00	9,673.00	17,637.56	9,631.84	53.94	71.54	-88.96	-3,458.90	-823.78	3,972.86	3,850.62	122.24	32.501		
17,600.00	9,673.00	17,549.00	9,631.58	53.78	70.95	-88.95	-3,370.34	-824.36	3,973.09	3,851.53	121.56	32.685		
17,700.00	9,673.00	17,458.80	9,631.87	53.63	70.35	-88.96	-3,280.14	-825.20	3,973.57	3,852.69	120.88	32.872		
17,800.00	9,673.00	17,345.99	9,632.48	53.49	69.61	-88.97	-3,167.34	-826.13	3,973.93	3,853.89	120.04	33.106		
17,900.00	9,673.00	17,275.95	9,632.74	53.35	69.14	-88.97	-3,097.31	-826.86	3,974.54	3,855.00	119.54	33.249		
18,000.00	9,673.00	17,130.43	9,636.75	53.23	68.18	-89.03	-2,951.86	-828.00	3,974.75	3,856.28	118.48	33.548		
18,100.00	9,673.00	17,034.06	9,638.63	53.11	67.55	-89.05	-2,855.51	-828.40	3,974.69	3,856.89	117.81	33.738		
18,101.29	9,673.00	17,032.85	9,638.65	53.11	67.54	-89.06	-2,854.30	-828.40	3,974.69	3,856.89	117.80	33.741		
18,200.00	9,673.00	16,948.09	9,639.42	53.00	66.99	-89.07	-2,769.55	-828.89	3,974.81	3,857.58	117.23	33.906		
18,300.00	9,673.00	16,862.97	9,640.64	52.91	66.43	-89.08	-2,684.44	-829.82	3,975.43	3,858.76	116.67	34.074		
18,400.00	9,673.00	16,765.87	9,641.32	52.82	65.80	-89.09	-2,587.35	-830.91	3,976.10	3,860.07	116.03	34.268		
18,500.00	9,673.00	16,683.58	9,641.93	52.74	65.27	-89.10	-2,505.07	-832.16	3,977.16	3,861.65	115.51	34.431		
18,600.00	9,673.00	16,576.40	9,643.82	52.67	64.58	-89.13	-2,397.92	-833.98	3,978.40	3,863.57	114.83	34.646		
18,700.00	9,673.00	16,429.02	9,647.38	52.62	63.63	-89.18	-2,250.60	-835.46	3,978.94	3,865.07	113.88	34.941		
18,732.89	9,673.00	16,403.51	9,648.03	52.60	63.47	-89.19	-2,225.10	-835.55	3,978.92	3,865.18	113.73	34.985		
18,800.00	9,673.00	16,361.36	9,648.91	52.57	63.20	-89.20	-2,182.95	-835.91	3,979.17	3,865.66	113.51	35.056		
18,900.00	9,673.00	16,255.98	9,650.51	52.54	62.52	-89.23	-2,077.59	-837.34	3,980.08	3,867.19	112.88	35.258		
19,000.00	9,673.00	16,150.95	9,652.10	52.51	61.86	-89.25	-1,972.58	-838.25	3,980.48	3,868.20	112.28	35.452		
19,100.00	9,673.00	16,050.37	9,653.26	52.50	61.23	-89.27	-1,872.01	-839.14	3,980.90	3,869.18	111.72	35.634		
19,200.00	9,673.00	15,952.00	9,654.73	52.50	60.61	-89.29	-1,773.66	-839.99	3,981.31	3,870.12	111.19	35.808		
19,300.00	9,673.00	15,858.00	9,655.97	52.51	60.02	-89.31	-1,679.67	-840.98	3,981.90	3,871.20	110.70	35.971		
19,400.00	9,673.00	15,764.00	9,657.12	52.53	59.44	-89.32	-1,585.68	-842.05	3,982.58	3,872.36	110.22	36.132		
19,500.00	9,673.00	15,631.48	9,658.55	52.57	58.62	-89.34	-1,453.18	-843.38	3,983.19	3,873.68	109.51	36.372		
19,600.00	9,673.00	15,498.76	9,659.30	52.62	57.81	-89.35	-1,320.47	-843.15	3,982.52	3,873.71	108.81	36.600		
19,700.00	9,673.00	15,420.56	9,658.90	52.68	57.33	-89.35	-1,242.27	-842.99	3,981.89	3,873.41	108.48	36.705		
19,800.00	9,673.00	15,273.46	9,659.55	52.75	56.44	-89.36	-1,095.17	-842.53	3,981.21	3,873.48	107.73	36.956		
19,900.00	9,673.00	15,176.56	9,659.76	52.84	55.86	-89.36	-998.28	-841.43	3,979.63	3,872.31	107.31	37.084		
20,000.00	9,673.00	15,101.09	9,660.18	52.94	55.42	-89.37	-922.82	-840.93	3,978.51	3,871.46	107.05	37.165		
20,100.00	9,673.00	14,999.75	9,661.19	53.06	54.82	-89.38	-821.47	-840.61	3,977.75	3,871.11	106.64	37.302		
20,200.00	9,673.00	14,878.87	9,662.70	53.19	54.11	-89.40	-700.61	-839.48	3,976.30	3,870.18	106.12	37.470		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,300.00	9,673.00	14,784.61	9,663.59	53.33	53.56	-89.41	-606.36	-838.85	3,975.17	3,869.39	105.78	37.579		
20,400.00	9,673.00	14,684.65	9,663.80	53.49	52.98	-89.42	-506.41	-837.86	3,973.73	3,868.31	105.42	37.694		
20,500.00	9,673.00	14,598.14	9,663.72	53.66	52.48	-89.42	-419.89	-837.40	3,972.75	3,867.60	105.15	37.781		
20,600.00	9,673.00	14,498.37	9,663.72	53.84	51.92	-89.42	-320.12	-836.93	3,971.83	3,867.01	104.82	37.892		
20,610.93	9,673.00	14,487.94	9,663.69	54.93	51.86	-89.42	-309.70	-836.88	3,971.73	3,866.95	104.79	37.903		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	28.24	28.24	0.00	0.04	1.73	4,644.80	140.38	4,646.92					
100.00	100.00	118.20	118.20	0.28	0.19	1.73	4,644.96	140.36	4,647.10	4,646.63	0.46	N/A		
200.00	200.00	208.18	208.18	0.63	0.34	1.73	4,645.31	140.32	4,647.49	4,646.51	0.98	4,745.393		
300.00	300.00	300.00	300.00	0.99	0.67	1.73	4,645.87	140.14	4,648.09	4,646.43	1.67	2,788.675		
400.00	400.00	389.00	388.99	1.35	0.99	1.72	4,646.65	139.73	4,648.95	4,646.60	2.34	1,983.377		
500.00	500.00	460.51	460.50	1.71	1.25	1.72	4,647.57	139.19	4,650.20	4,647.24	2.96	1,571.706		
600.00	599.98	629.34	629.31	2.05	1.84	-178.29	4,648.91	138.89	4,652.73	4,648.84	3.90	1,194.522		
700.00	699.84	757.86	757.83	2.39	2.28	-178.28	4,648.81	139.50	4,657.95	4,653.29	4.67	998.379		
800.00	799.49	896.10	896.05	2.73	2.75	-178.30	4,647.06	137.98	4,664.82	4,659.34	5.48	851.686		
900.00	899.11	993.11	993.03	3.07	3.08	-178.33	4,645.87	136.17	4,672.24	4,666.09	6.16	758.902		
1,000.00	998.73	1,087.33	1,087.23	3.42	3.41	-178.35	4,644.67	133.97	4,679.63	4,672.79	6.83	684.831		
1,100.00	1,098.36	1,173.41	1,173.28	3.77	3.72	-155.61	4,643.78	132.55	4,686.91	4,679.43	7.49	626.166		
1,200.00	1,197.92	1,273.43	1,273.30	4.12	4.07	-135.93	4,642.96	131.38	4,693.69	4,685.51	8.19	573.216		
1,300.00	1,297.29	1,380.03	1,379.88	4.48	4.45	-122.09	4,641.88	130.06	4,699.57	4,690.66	8.92	527.025		
1,400.00	1,396.36	1,465.93	1,465.77	4.84	4.75	-112.86	4,641.04	129.30	4,704.80	4,695.22	9.57	491.483		
1,500.00	1,495.00	1,551.02	1,550.87	5.20	5.04	-106.60	4,640.50	129.44	4,709.68	4,699.45	10.22	460.676		
1,600.00	1,593.09	1,653.60	1,653.43	5.56	5.40	-102.25	4,639.97	130.35	4,714.04	4,703.11	10.93	431.100		
1,700.00	1,690.51	1,804.14	1,803.95	5.92	5.92	-99.27	4,638.30	132.33	4,717.23	4,705.41	11.82	399.136		
1,800.00	1,787.29	1,953.66	1,953.42	6.28	6.44	-98.52	4,634.72	133.73	4,718.59	4,705.88	12.71	371.349		
1,900.00	1,883.98	2,033.99	2,033.71	6.65	6.72	-98.75	4,632.50	135.08	4,719.71	4,706.35	13.36	353.345		
2,000.00	1,980.68	2,065.00	2,064.70	7.02	6.83	-98.84	4,631.76	135.79	4,721.68	4,707.84	13.84	341.243		
2,100.00	2,077.38	2,126.12	2,125.81	7.39	7.04	-99.02	4,630.95	136.64	4,724.64	4,710.22	14.42	327.585		
2,200.00	2,174.08	2,172.92	2,172.61	7.77	7.21	-99.16	4,631.10	136.46	4,729.05	4,714.09	14.96	316.145		
2,300.00	2,270.78	2,278.87	2,278.55	8.15	7.57	-99.49	4,631.81	136.12	4,734.01	4,718.31	15.70	301.434		
2,400.00	2,367.48	2,445.83	2,445.51	8.53	8.15	-99.97	4,631.49	137.97	4,738.26	4,721.59	16.67	284.221		
2,500.00	2,464.17	2,528.54	2,528.20	8.92	8.44	-100.23	4,630.76	137.95	4,741.97	4,724.63	17.34	273.422		
2,600.00	2,560.87	2,606.78	2,606.44	9.30	8.72	-100.47	4,630.37	137.12	4,746.22	4,728.22	18.00	263.679		
2,700.00	2,657.57	2,700.50	2,700.11	9.69	9.05	-100.79	4,630.05	134.28	4,750.84	4,732.13	18.71	253.882		
2,800.00	2,754.27	2,791.87	2,791.30	10.08	9.37	-101.13	4,629.60	128.57	4,755.63	4,736.21	19.42	244.908		
2,900.00	2,850.97	2,869.20	2,868.33	10.47	9.64	-101.44	4,629.27	121.73	4,760.84	4,740.76	20.07	237.174		
3,000.00	2,947.66	2,939.53	2,938.21	10.86	9.89	-101.75	4,629.21	113.86	4,766.72	4,746.02	20.70	230.243		
3,100.00	3,044.36	3,020.00	3,017.94	11.25	10.17	-102.11	4,629.40	102.96	4,773.31	4,751.94	21.37	223.368		
3,200.00	3,141.06	3,088.77	3,085.84	11.64	10.41	-102.44	4,629.70	92.05	4,780.54	4,758.55	21.99	217.360		
3,300.00	3,237.76	3,166.63	3,162.39	12.03	10.69	-102.83	4,630.10	77.89	4,788.38	4,765.73	22.65	211.398		
3,400.00	3,334.46	3,247.75	3,241.78	12.43	10.97	-103.26	4,630.54	61.22	4,796.82	4,773.50	23.32	205.687		
3,500.00	3,431.16	3,340.82	3,332.57	12.82	11.30	-103.77	4,630.97	40.73	4,805.74	4,781.70	24.04	199.929		
3,600.00	3,527.85	3,457.39	3,446.12	13.21	11.72	-104.41	4,631.03	14.40	4,814.78	4,789.94	24.85	193.792		
3,700.00	3,624.55	3,596.97	3,582.51	13.61	12.22	-105.15	4,630.10	-15.23	4,823.45	4,797.71	25.74	187.359		
3,800.00	3,721.25	3,680.00	3,663.57	14.00	12.52	-105.60	4,629.20	-33.20	4,832.21	4,805.78	26.43	182.831		
3,900.00	3,817.95	3,774.35	3,755.32	14.40	12.86	-106.12	4,627.96	-55.12	4,841.41	4,814.25	27.16	178.253		
4,000.00	3,914.65	3,870.00	3,848.04	14.79	13.21	-106.66	4,626.02	-78.57	4,850.58	4,822.68	27.90	173.870		
4,100.00	4,011.35	3,933.95	3,909.95	15.19	13.45	-107.02	4,624.79	-94.56	4,860.45	4,831.94	28.51	170.472		
4,200.00	4,108.04	3,964.00	3,939.06	15.59	13.56	-107.19	4,624.46	-101.99	4,871.59	4,842.60	28.99	168.058		
4,300.00	4,204.74	4,032.17	4,005.18	15.98	13.81	-107.57	4,624.30	-118.58	4,883.74	4,854.13	29.61	164.910		
4,400.00	4,301.44	4,096.23	4,067.40	16.38	14.05	-107.92	4,624.81	-133.79	4,897.02	4,866.79	30.22	162.027		
4,500.00	4,398.14	4,183.97	4,152.77	16.78	14.37	-108.39	4,625.80	-154.05	4,910.91	4,879.98	30.93	158.775		
4,600.00	4,494.84	4,287.60	4,253.77	17.17	14.75	-108.93	4,626.90	-177.21	4,925.03	4,893.32	31.70	155.347		
4,700.00	4,591.53	4,383.37	4,347.03	17.57	15.11	-109.44	4,627.61	-198.95	4,939.32	4,906.88	32.45	152.236		
4,800.00	4,688.23	4,481.47	4,442.47	17.97	15.48	-109.96	4,628.12	-221.63	4,953.93	4,920.73	33.20	149.223		
4,900.00	4,784.93	4,558.75	4,517.59	18.37	15.77	-110.37	4,628.31	-239.80	4,968.79	4,934.93	33.86	146.732		
5,000.00	4,881.63	4,625.00	4,582.05	18.77	16.01	-110.71	4,629.04	-255.07	4,984.62	4,950.14	34.48	144.566		
5,100.00	4,978.33	4,687.36	4,642.79	19.16	16.25	-111.03	4,630.12	-269.13	5,001.25	4,966.18	35.08	142.575		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.00	5,075.03	4,824.25	4,776.35	19.56	16.76	-111.72	4,632.27	-299.06	5,018.10	4,982.10	36.00	139.388		
5,300.00	5,171.72	4,947.93	4,897.41	19.96	17.22	-112.33	4,633.46	-324.40	5,034.38	4,997.51	36.87	136.560		
5,400.00	5,268.42	5,041.31	4,988.98	20.36	17.57	-112.77	4,634.15	-342.67	5,050.58	5,012.98	37.60	134.327		
5,500.00	5,365.12	5,119.81	5,065.95	20.76	17.87	-113.14	4,634.89	-358.09	5,067.30	5,029.04	38.27	132.417		
5,600.00	5,461.82	14,659.71	9,860.79	21.16	52.83	174.54	-181.41	-1,497.63	5,064.38	5,008.70	55.68	90.950		
5,700.00	5,558.52	14,665.04	9,860.79	21.56	52.86	174.46	-186.73	-1,497.73	4,994.27	4,938.06	56.21	88.848		
5,800.00	5,655.21	14,670.42	9,860.78	21.96	52.89	174.37	-192.11	-1,497.82	4,925.19	4,868.43	56.76	86.776		
5,900.00	5,751.91	14,675.85	9,860.78	22.35	52.92	174.28	-197.54	-1,497.92	4,857.19	4,799.86	57.32	84.735		
6,000.00	5,848.61	14,681.33	9,860.78	22.75	52.95	174.20	-203.02	-1,498.01	4,790.30	4,732.39	57.90	82.727		
6,100.00	5,945.31	14,686.86	9,860.77	23.15	52.98	174.11	-208.55	-1,498.10	4,724.58	4,666.07	58.51	80.753		
6,200.00	6,042.01	14,692.45	9,860.77	23.55	53.01	174.02	-214.14	-1,498.18	4,660.07	4,600.94	59.13	78.814		
6,300.00	6,138.71	14,698.09	9,860.76	23.95	53.04	173.93	-219.78	-1,498.27	4,596.83	4,537.06	59.77	76.910		
6,400.00	6,235.40	14,703.79	9,860.76	24.35	53.07	173.84	-225.48	-1,498.34	4,534.91	4,474.48	60.43	75.043		
6,500.00	6,332.10	14,709.54	9,860.75	24.75	53.10	173.75	-231.23	-1,498.42	4,474.36	4,413.25	61.11	73.214		
6,600.00	6,428.80	14,715.35	9,860.75	25.15	53.13	173.65	-237.04	-1,498.49	4,415.25	4,353.43	61.82	71.424		
6,700.00	6,525.50	14,721.22	9,860.74	25.55	53.17	173.56	-242.90	-1,498.55	4,357.62	4,295.07	62.54	69.674		
6,800.00	6,622.20	14,727.14	9,860.74	25.95	53.20	173.47	-248.83	-1,498.62	4,301.54	4,238.25	63.29	67.965		
6,900.00	6,718.89	14,733.13	9,860.73	26.35	53.23	173.37	-254.81	-1,498.67	4,247.07	4,183.01	64.06	66.300		
7,000.00	6,815.59	14,739.53	9,860.73	26.75	53.26	173.27	-261.22	-1,498.73	4,194.27	4,129.42	64.85	64.676		
7,100.00	6,912.29	14,747.51	9,860.72	27.15	53.31	173.14	-269.20	-1,498.79	4,143.20	4,077.53	65.67	63.090		
7,200.00	7,008.99	14,755.58	9,860.71	27.55	53.35	173.01	-277.27	-1,498.84	4,093.94	4,027.43	66.51	61.551		
7,300.00	7,105.69	14,763.73	9,860.69	27.95	53.40	172.88	-285.42	-1,498.88	4,046.54	3,979.16	67.37	60.060		
7,400.00	7,202.39	14,771.96	9,860.68	28.35	53.44	172.75	-293.65	-1,498.91	4,001.07	3,932.81	68.26	58.618		
7,500.00	7,299.08	14,780.28	9,860.66	28.75	53.49	172.62	-301.97	-1,498.93	3,957.60	3,888.44	69.16	57.227		
7,600.00	7,395.78	14,788.69	9,860.65	29.15	53.53	172.48	-310.38	-1,498.93	3,916.19	3,846.12	70.07	55.887		
7,700.00	7,492.48	14,797.19	9,860.63	29.56	53.58	172.35	-318.88	-1,498.93	3,876.91	3,805.91	71.01	54.600		
7,800.00	7,589.18	14,805.78	9,860.61	29.96	53.63	172.21	-327.47	-1,498.91	3,839.83	3,767.87	71.95	53.365		
7,900.00	7,685.98	14,814.32	9,860.59	30.36	53.67	172.04	-336.01	-1,498.88	3,804.63	3,731.72	72.91	52.182		
8,000.00	7,783.18	14,822.35	9,860.57	30.75	53.72	171.86	-344.04	-1,498.84	3,770.20	3,696.33	73.87	51.039		
8,100.00	7,880.77	14,829.81	9,860.54	31.14	53.76	171.68	-351.50	-1,498.79	3,736.48	3,661.66	74.82	49.937		
8,200.00	7,978.73	14,836.69	9,860.52	31.53	53.80	171.52	-358.37	-1,498.74	3,703.51	3,627.74	75.77	48.877		
8,300.00	8,077.03	14,842.94	9,860.50	31.91	53.83	171.37	-364.63	-1,498.68	3,671.31	3,594.60	76.72	47.856		
8,400.00	8,175.63	14,848.57	9,860.49	32.28	53.86	171.23	-370.26	-1,498.63	3,639.92	3,562.27	77.65	46.876		
8,500.00	8,274.51	14,854.64	9,860.58	32.65	53.87	171.06	-375.33	-1,498.56	3,609.36	3,530.93	78.42	46.025		
8,600.00	8,373.63	14,861.43	9,860.57	33.02	53.88	170.88	-380.12	-1,498.48	3,579.70	3,500.37	79.33	45.126		
8,700.00	8,472.97	14,868.96	9,860.57	33.37	53.89	170.71	-384.65	-1,498.39	3,550.95	3,470.73	80.22	44.266		
8,800.00	8,572.50	14,876.23	9,860.57	33.73	53.89	170.55	-389.12	-1,498.29	3,523.13	3,442.04	81.09	43.445		
8,900.00	8,672.17	14,884.61	9,860.50	34.08	53.84	170.40	-393.60	-1,498.18	3,496.27	3,414.22	82.05	42.611		
9,000.00	8,771.98	14,893.28	9,860.50	34.42	53.85	170.29	-397.96	-1,498.07	3,470.41	3,387.52	82.89	41.867		
9,100.00	8,871.87	14,902.31	9,860.50	34.76	53.85	170.19	-402.37	-1,497.95	3,445.58	3,361.87	83.71	41.162		
9,200.00	8,971.83	14,911.68	9,860.50	35.10	53.85	170.10	-406.82	-1,497.83	3,421.80	3,337.30	84.50	40.494		
9,300.00	9,071.83	14,921.31	9,860.50	35.42	53.85	170.07	-411.31	-1,497.71	3,399.12	3,313.86	85.26	39.868		
9,400.00	9,171.44	14,931.29	9,860.48	35.73	53.89	91.63	-415.82	-1,497.59	3,378.30	3,292.28	86.03	39.269		
9,500.00	9,268.29	14,941.41	9,860.42	36.04	54.01	93.03	-420.36	-1,497.47	3,360.72	3,273.86	86.86	38.690		
9,600.00	9,359.44	14,951.79	9,860.33	36.33	54.22	93.85	-424.93	-1,497.35	3,346.63	3,258.90	87.74	38.144		
9,700.00	9,442.11	15,019.00	9,860.31	36.59	54.80	93.48	-429.52	-1,497.23	3,335.08	3,246.26	88.82	37.549		
9,800.00	9,513.79	15,068.17	9,860.27	36.83	55.08	93.73	-434.13	-1,497.11	3,326.30	3,236.64	89.67	37.097		
9,900.00	9,572.31	15,113.00	9,860.01	37.05	55.33	93.82	-438.76	-1,497.00	3,321.00	3,230.56	90.44	36.719		
10,000.00	9,615.89	15,181.40	9,859.53	37.26	55.71	93.57	-443.41	-1,496.89	3,318.45	3,227.21	91.24	36.369		
10,100.00	9,643.92	15,260.67	9,859.24	37.46	56.16	93.25	-448.09	-1,496.78	3,317.63	3,225.61	92.02	36.054		
10,105.57	9,645.16	15,264.87	9,859.23	37.47	56.19	93.24	-448.51	-1,496.77	3,317.63	3,225.57	92.06	36.038		
10,200.00	9,662.03	15,325.25	9,859.23	37.67	56.53	93.01	-453.18	-1,496.66	3,318.27	3,225.57	92.70	35.797		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,300.00	9,671.50	15,395.00	9,859.57	37.89	56.93	92.79	-916.61	-1,498.10	3,320.82	3,227.46	93.36	35.570		
10,400.00	9,673.00	15,618.65	9,859.44	38.11	58.23	92.68	-1,140.23	-1,498.78	3,320.88	3,226.24	94.64	35.090		
10,492.34	9,673.00	15,690.79	9,859.80	38.32	58.65	92.68	-1,212.37	-1,498.20	3,320.58	3,225.30	95.28	34.851		
10,500.00	9,673.00	15,696.04	9,859.83	38.34	58.68	92.68	-1,217.62	-1,498.18	3,320.58	3,225.25	95.33	34.832		
10,600.00	9,673.00	15,770.00	9,860.27	38.58	59.12	92.69	-1,291.58	-1,498.26	3,321.15	3,225.13	96.02	34.588		
10,700.00	9,673.00	15,926.32	9,859.82	38.83	60.05	92.68	-1,447.88	-1,496.77	3,320.33	3,223.25	97.09	34.200		
10,800.00	9,673.00	16,021.25	9,859.02	39.10	60.62	92.67	-1,542.81	-1,495.76	3,319.68	3,221.77	97.91	33.906		
10,900.00	9,673.00	16,187.59	9,856.45	39.37	61.62	92.63	-1,709.07	-1,492.04	3,317.71	3,218.65	99.06	33.492		
11,000.00	9,673.00	16,263.31	9,856.14	39.65	62.08	92.62	-1,784.76	-1,489.86	3,315.30	3,215.46	99.84	33.207		
11,100.00	9,673.00	16,333.00	9,855.99	39.95	62.51	92.62	-1,854.44	-1,488.70	3,314.00	3,213.40	100.60	32.943		
11,158.20	9,673.00	16,354.75	9,855.87	40.13	62.64	92.62	-1,876.19	-1,488.56	3,313.78	3,212.82	100.96	32.824		
11,200.00	9,673.00	16,377.21	9,855.70	40.25	62.78	92.62	-1,898.65	-1,488.55	3,313.93	3,212.69	101.24	32.733		
11,300.00	9,673.00	16,427.00	9,855.19	40.57	63.08	92.61	-1,948.43	-1,489.00	3,315.29	3,213.38	101.91	32.531		
11,400.00	9,673.00	16,709.00	9,844.53	40.90	64.84	92.42	-2,230.05	-1,489.34	3,317.47	3,213.72	103.75	31.976		
11,500.00	9,673.00	16,760.08	9,843.00	41.23	65.16	92.40	-2,281.08	-1,487.54	3,314.59	3,210.10	104.49	31.723		
11,600.00	9,673.00	16,803.00	9,842.00	41.58	65.43	92.38	-2,323.98	-1,487.09	3,313.74	3,208.56	105.18	31.506		
11,603.61	9,673.00	16,803.00	9,842.00	41.59	65.43	92.38	-2,323.98	-1,487.09	3,313.74	3,208.54	105.19	31.501		
11,700.00	9,673.00	16,867.23	9,840.85	41.93	65.83	92.36	-2,388.19	-1,487.30	3,314.34	3,208.37	105.98	31.275		
11,800.00	9,673.00	16,963.86	9,839.55	42.30	66.44	92.34	-2,484.81	-1,488.01	3,315.47	3,208.52	106.95	31.000		
11,900.00	9,673.00	17,068.17	9,839.55	42.67	67.11	92.34	-2,589.17	-1,488.58	3,316.46	3,208.48	107.98	30.713		
12,000.00	9,673.00	17,246.24	9,841.16	43.06	68.24	92.36	-2,767.16	-1,487.26	3,316.21	3,206.79	109.41	30.309		
12,100.00	9,673.00	17,321.07	9,840.81	43.45	68.72	92.36	-2,841.97	-1,485.77	3,314.78	3,204.46	110.32	30.047		
12,200.00	9,673.00	17,439.74	9,837.88	43.85	69.48	92.31	-2,960.58	-1,484.60	3,314.21	3,202.74	111.47	29.731		
12,300.00	9,673.00	17,525.50	9,837.30	44.26	70.03	92.30	-3,046.31	-1,482.54	3,312.37	3,199.91	112.46	29.454		
12,355.45	9,673.00	17,555.00	9,837.78	44.50	70.22	92.31	-3,075.80	-1,482.35	3,312.23	3,199.32	112.91	29.305		
12,400.00	9,673.00	17,602.76	9,838.56	44.68	70.53	92.32	-3,123.55	-1,482.21	3,312.34	3,198.93	113.41	29.208		
12,500.00	9,673.00	17,743.00	9,840.82	45.11	71.44	92.36	-3,263.73	-1,479.54	3,310.68	3,195.97	114.71	28.861		
12,600.00	9,673.00	17,799.75	9,842.44	45.55	71.81	92.39	-3,320.44	-1,478.36	3,309.54	3,193.97	115.57	28.637		
12,600.16	9,673.00	17,799.80	9,842.44	45.55	71.82	92.39	-3,320.50	-1,478.36	3,309.54	3,193.97	115.57	28.637		
12,700.00	9,673.00	17,837.00	9,842.64	45.99	72.06	92.39	-3,357.69	-1,478.55	3,310.50	3,194.20	116.30	28.465		
12,800.00	9,673.00	17,970.22	9,842.40	46.44	72.93	92.39	-3,490.90	-1,479.55	3,311.63	3,194.02	117.61	28.157		
12,900.00	9,673.00	18,051.32	9,843.11	46.90	73.46	92.40	-3,572.00	-1,480.03	3,312.73	3,194.12	118.62	27.927		
13,000.00	9,673.00	18,120.48	9,843.66	47.37	73.92	92.41	-3,641.15	-1,481.03	3,314.67	3,195.11	119.56	27.725		
13,100.00	9,673.00	18,234.80	9,844.34	47.84	74.67	92.42	-3,755.45	-1,482.94	3,316.81	3,196.02	120.79	27.460		
13,200.00	9,673.00	18,333.89	9,844.88	48.32	75.33	92.43	-3,854.53	-1,484.38	3,318.73	3,196.80	121.93	27.218		
13,300.00	9,673.00	18,458.71	9,845.41	48.81	76.16	92.43	-3,979.33	-1,486.20	3,320.74	3,197.50	123.25	26.944		
13,400.00	9,673.00	18,698.19	9,848.17	49.30	77.76	92.48	-4,218.75	-1,482.76	3,319.71	3,194.47	125.24	26.507		
13,500.00	9,673.00	18,775.00	9,846.86	49.80	78.27	92.46	-4,295.50	-1,480.47	3,317.11	3,190.81	126.30	26.264		
13,600.00	9,673.00	18,951.07	9,846.04	50.31	79.46	92.45	-4,471.37	-1,472.82	3,312.83	3,184.92	127.91	25.900		
13,700.00	9,673.00	19,059.08	9,847.04	50.82	80.18	92.47	-4,579.23	-1,467.24	3,308.16	3,179.00	129.16	25.614		
13,800.00	9,673.00	19,105.31	9,847.55	51.34	80.49	92.48	-4,625.41	-1,465.17	3,304.17	3,174.09	130.08	25.401		
13,900.00	9,673.00	19,152.00	9,848.14	51.87	80.81	92.50	-4,672.08	-1,463.82	3,301.79	3,170.80	130.99	25.206		
14,000.00	9,673.00	19,239.14	9,849.11	52.40	81.40	92.51	-4,759.20	-1,462.18	3,300.41	3,168.27	132.14	24.977		
14,071.62	9,673.00	19,288.25	9,849.54	52.78	81.73	92.52	-4,808.30	-1,461.51	3,300.43	3,167.55	132.88	24.838		
14,100.00	9,673.00	19,307.07	9,849.70	52.94	81.86	92.52	-4,827.11	-1,461.35	3,299.90	3,166.73	133.17	24.780	CC, ES	
14,200.00	9,673.00	19,370.95	9,850.25	53.49	82.30	92.57	-4,891.00	-1,461.23	3,310.24	3,176.07	134.17	24.672	SF	
14,300.00	9,673.00	19,434.00	9,850.74	54.08	82.73	92.67	-4,954.04	-1,461.84	3,336.53	3,201.37	135.16	24.686		
14,400.00	9,673.00	19,503.27	9,851.36	54.68	83.20	92.85	-5,023.29	-1,463.07	3,377.82	3,241.65	136.16	24.807		
14,500.00	9,673.00	19,559.40	9,851.96	55.27	83.58	93.13	-5,079.41	-1,464.37	3,432.87	3,295.83	137.04	25.051		
14,600.00	9,673.00	19,602.61	9,852.24	55.84	83.88	93.56	-5,122.59	-1,465.79	3,500.53	3,362.77	137.76	25.410		
14,700.00	9,673.00	19,622.00	9,852.30	56.38	84.01	94.30	-5,141.97	-1,466.55	3,579.06	3,440.84	138.23	25.893		
14,800.00	9,673.00	19,663.13	9,852.46	56.88	84.29	95.56	-5,183.05	-1,468.44	3,666.24	3,527.44	138.81	26.413		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,900.00	9,673.00	19,681.17	9,852.56	57.31	84.41	98.34	-5,201.07	-1,469.41	3,760.00	3,620.87	139.13	27.026		
15,000.00	9,673.00	19,709.00	9,852.75	57.68	84.60	107.42	-5,228.85	-1,471.04	3,858.01	3,718.54	139.47	27.661		
15,100.00	9,673.00	19,709.00	9,852.75	57.96	84.60	-141.41	-5,228.85	-1,471.04	3,957.73	3,818.22	139.51	28.368		
15,200.00	9,673.00	19,709.00	9,852.75	58.17	84.60	-101.61	-5,228.85	-1,471.04	4,057.03	3,917.52	139.50	29.082		
15,300.00	9,673.00	19,675.16	9,852.52	58.28	84.37	-96.23	-5,195.06	-1,469.08	4,153.44	4,014.29	139.14	29.850		
15,400.00	9,673.00	19,655.62	9,852.42	58.32	84.24	-94.32	-5,175.55	-1,468.07	4,245.16	4,106.27	138.88	30.566		
15,500.00	9,673.00	19,622.00	9,852.30	58.28	84.01	-93.33	-5,141.97	-1,466.55	4,330.17	4,191.69	138.47	31.271		
15,600.00	9,673.00	19,596.66	9,852.21	58.17	83.84	-92.76	-5,116.65	-1,465.57	4,406.69	4,268.57	138.12	31.904		
15,700.00	9,673.00	19,557.49	9,851.94	58.00	83.57	-92.39	-5,077.50	-1,464.32	4,473.22	4,335.57	137.65	32.498		
15,800.00	9,673.00	19,507.25	9,851.40	57.78	83.23	-92.13	-5,027.27	-1,463.15	4,528.42	4,391.34	137.07	33.037		
15,900.00	9,673.00	19,434.00	9,850.74	57.54	82.73	-91.96	-4,954.04	-1,461.84	4,570.92	4,434.61	136.32	33.532		
16,000.00	9,673.00	19,385.66	9,850.37	57.27	82.40	-91.86	-4,905.70	-1,461.31	4,599.94	4,464.16	135.77	33.879		
16,100.00	9,673.00	19,340.00	9,849.99	56.99	82.09	-91.81	-4,860.05	-1,461.20	4,615.16	4,479.90	135.26	34.120		
16,200.00	9,673.00	19,273.11	9,849.41	56.72	81.63	-91.80	-4,793.16	-1,461.68	4,618.39	4,483.80	134.59	34.314		
16,300.00	9,673.00	19,201.93	9,848.74	56.46	81.15	-91.79	-4,721.99	-1,462.84	4,619.53	4,485.64	133.90	34.501		
16,400.00	9,673.00	19,152.00	9,848.14	56.21	80.81	-91.78	-4,672.08	-1,463.82	4,621.24	4,487.88	133.36	34.652		
16,500.00	9,673.00	19,098.10	9,847.47	55.97	80.45	-91.77	-4,618.20	-1,465.45	4,623.97	4,491.17	132.80	34.820		
16,600.00	9,673.00	19,062.19	9,847.07	55.73	80.20	-91.77	-4,582.34	-1,467.08	4,628.08	4,495.73	132.35	34.968		
16,700.00	9,673.00	18,950.48	9,846.03	55.50	79.45	-91.75	-4,470.78	-1,472.85	4,632.78	4,501.38	131.40	35.258		
16,800.00	9,673.00	18,750.83	9,847.76	55.28	78.11	-91.77	-4,271.36	-1,481.11	4,636.71	4,506.86	129.84	35.710		
16,900.00	9,673.00	18,633.98	9,847.22	55.06	77.33	-91.76	-4,154.58	-1,484.56	4,639.25	4,510.37	128.88	35.997		
17,000.00	9,673.00	18,344.76	9,844.92	54.86	75.40	-91.74	-3,865.40	-1,484.54	4,637.82	4,511.16	126.66	36.616		
17,100.00	9,673.00	18,248.52	9,844.42	54.66	74.76	-91.73	-3,769.17	-1,483.14	4,635.91	4,510.02	125.88	36.827		
17,200.00	9,673.00	18,129.81	9,843.72	54.47	73.98	-91.72	-3,650.48	-1,481.21	4,633.83	4,508.88	124.95	37.087		
17,300.00	9,673.00	18,063.44	9,843.23	54.28	73.54	-91.72	-3,584.12	-1,480.16	4,631.81	4,507.39	124.42	37.228		
17,400.00	9,673.00	17,993.47	9,842.53	54.11	73.08	-91.71	-3,514.15	-1,479.65	4,630.59	4,506.72	123.87	37.384		
17,500.00	9,673.00	17,861.86	9,842.55	53.94	72.22	-91.71	-3,382.55	-1,478.89	4,629.65	4,506.77	122.88	37.676		
17,600.00	9,673.00	17,837.00	9,842.64	53.78	72.06	-91.71	-3,357.69	-1,478.55	4,628.58	4,505.91	122.67	37.731		
17,637.43	9,673.00	17,800.34	9,842.45	53.72	71.82	-91.71	-3,321.03	-1,478.35	4,628.22	4,505.82	122.40	37.812		
17,700.00	9,673.00	17,782.37	9,842.11	53.63	71.70	-91.71	-3,303.07	-1,478.53	4,628.52	4,506.27	122.25	37.861		
17,800.00	9,673.00	17,725.80	9,840.45	53.49	71.33	-91.68	-3,246.54	-1,479.95	4,630.27	4,508.45	121.81	38.012		
17,900.00	9,673.00	17,555.00	9,837.78	53.35	70.22	-91.65	-3,075.80	-1,482.35	4,631.02	4,510.41	120.62	38.395		
18,000.00	9,673.00	17,509.03	9,837.17	53.23	69.93	-91.64	-3,029.84	-1,482.81	4,631.78	4,511.50	120.28	38.509		
18,100.00	9,673.00	17,393.15	9,839.00	53.11	69.18	-91.66	-2,914.02	-1,485.33	4,633.63	4,514.14	119.49	38.778		
18,200.00	9,673.00	17,273.00	9,841.17	53.00	68.41	-91.69	-2,793.91	-1,486.76	4,634.39	4,515.70	118.69	39.046		
18,300.00	9,673.00	17,109.48	9,840.50	52.91	67.37	-91.68	-2,630.41	-1,488.70	4,635.53	4,517.92	117.62	39.412		
18,400.00	9,673.00	16,990.37	9,839.24	52.82	66.61	-91.67	-2,511.32	-1,488.18	4,634.61	4,517.76	116.85	39.663		
18,500.00	9,673.00	16,897.00	9,840.42	52.74	66.02	-91.68	-2,417.96	-1,487.51	4,633.50	4,517.22	116.27	39.850		
18,600.00	9,673.00	16,803.00	9,842.00	52.67	65.43	-91.70	-2,323.98	-1,487.09	4,632.66	4,516.95	115.71	40.037		
18,634.51	9,673.00	16,803.00	9,842.00	52.66	65.43	-91.70	-2,323.98	-1,487.09	4,632.53	4,516.81	115.73	40.030		
18,700.00	9,673.00	16,803.00	9,842.00	52.62	65.43	-91.70	-2,323.98	-1,487.09	4,633.00	4,517.25	115.74	40.028		
18,800.00	9,673.00	16,748.88	9,843.30	52.57	65.09	-91.72	-2,269.88	-1,487.82	4,634.40	4,518.97	115.43	40.148		
18,900.00	9,673.00	16,427.00	9,855.19	52.54	63.08	-91.87	-1,948.43	-1,489.00	4,634.49	4,520.99	113.51	40.829		
19,000.00	9,673.00	16,390.56	9,855.58	52.51	62.86	-91.87	-1,911.99	-1,488.61	4,632.88	4,519.52	113.37	40.867		
19,100.00	9,673.00	16,333.00	9,855.99	52.50	62.51	-91.88	-1,854.44	-1,488.70	4,632.50	4,519.41	113.09	40.963		
19,104.06	9,673.00	16,333.00	9,855.99	52.50	62.51	-91.88	-1,854.44	-1,488.70	4,632.50	4,519.41	113.09	40.961		
19,200.00	9,673.00	16,295.99	9,856.12	52.50	62.28	-91.88	-1,817.43	-1,489.19	4,633.21	4,520.27	112.94	41.024		
19,300.00	9,673.00	16,239.00	9,856.10	52.51	61.93	-91.88	-1,760.46	-1,490.51	4,635.02	4,522.35	112.67	41.138		
19,400.00	9,673.00	16,164.79	9,856.89	52.53	61.48	-91.89	-1,686.29	-1,492.75	4,637.59	4,525.28	112.31	41.292		
19,500.00	9,673.00	15,964.06	9,859.43	52.57	60.27	-91.92	-1,485.62	-1,496.36	4,638.72	4,527.45	111.27	41.690		
19,600.00	9,673.00	15,889.53	9,860.11	52.62	59.83	-91.92	-1,411.10	-1,497.28	4,639.55	4,528.61	110.94	41.819		
19,700.00	9,673.00	15,719.16	9,859.98	52.68	58.82	-91.92	-1,240.74	-1,498.12	4,639.37	4,529.27	110.10	42.138		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 11-14 Fed Com 7H - OH - Svy

Survey Program: 201-MWD+IFR1+MS		Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	Offset Site Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				Offset Well Error:
19,738.62	9,673.00	15,695.64	9,859.83	52.71	58.68	-91.92	-1,217.22	-1,498.18	4,639.29	4,529.27	110.02	42.169	0.00 usft			
19,800.00	9,673.00	15,653.94	9,859.55	52.75	58.44	-91.92	-1,175.52	-1,498.45	4,639.40	4,529.54	109.86	42.232	0.00 usft			
19,900.00	9,673.00	15,565.76	9,859.51	52.84	57.92	-91.92	-1,087.35	-1,499.41	4,640.02	4,530.52	109.50	42.376				
20,000.00	9,673.00	15,329.14	9,859.23	52.94	56.55	-91.91	-850.78	-1,496.28	4,637.00	4,528.64	108.35	42.795				
20,100.00	9,673.00	15,275.08	9,859.22	53.06	56.24	-91.91	-796.72	-1,495.60	4,635.24	4,527.02	108.22	42.831				
20,200.00	9,673.00	15,202.68	9,859.43	53.19	55.83	-91.92	-724.33	-1,495.17	4,634.21	4,526.22	108.00	42.911				
20,300.00	9,673.00	15,113.00	9,860.01	53.33	55.33	-91.92	-634.65	-1,494.92	4,633.52	4,525.83	107.69	43.025				
20,323.86	9,673.00	15,113.00	9,860.01	53.37	55.33	-91.92	-634.65	-1,494.92	4,633.46	4,525.73	107.73	43.009				
20,400.00	9,673.00	15,073.92	9,860.25	53.49	55.11	-91.93	-595.57	-1,495.11	4,633.64	4,525.98	107.65	43.042				
20,500.00	9,673.00	15,006.10	9,860.31	53.66	54.73	-91.93	-527.77	-1,496.61	4,635.20	4,527.73	107.47	43.129				
20,600.00	9,673.00	14,813.83	9,860.57	53.84	53.67	-91.93	-335.51	-1,498.76	4,636.05	4,529.34	106.71	43.445				
20,610.93	9,673.00	14,802.90	9,860.60	54.93	53.61	-91.93	-324.58	-1,498.76	4,636.00	4,529.33	106.67	43.461				

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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													Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	0.00	0.00	0.00	153.91	-331.99	162.55	369.65	369.65						
100.00	100.00	96.16	96.15	0.28	0.16	154.09	-332.72	161.60	369.89	369.46	0.43	862.449				
200.00	200.00	194.84	194.77	0.63	0.42	154.61	-334.83	158.92	370.64	369.59	1.05	353.112				
300.00	300.00	295.53	295.35	0.99	0.78	155.31	-337.43	155.13	371.40	369.62	1.77	209.278				
400.00	400.00	395.02	394.71	1.35	1.15	156.09	-340.22	150.84	372.17	369.68	2.50	149.048				
500.00	500.00	494.17	493.73	1.71	1.51	156.86	-343.16	146.64	373.21	369.99	3.22	115.974				
600.00	599.98	593.35	592.79	2.05	1.87	-22.50	-346.19	142.69	372.87	368.95	3.92	95.077				
700.00	699.84	692.74	692.04	2.39	2.24	-22.07	-349.41	138.63	369.47	364.86	4.62	80.008				
800.00	799.49	791.22	790.46	2.73	2.59	-22.14	-352.02	136.73	363.53	358.22	5.31	68.456				
900.00	899.11	890.98	890.20	3.07	2.93	-22.62	-353.96	137.22	357.45	351.45	6.00	59.592				
1,000.00	998.73	991.23	990.44	3.42	3.28	-23.20	-355.62	138.11	351.28	344.59	6.69	52.502				
1,100.00	1,098.36	1,092.41	1,091.60	3.77	3.63	-0.75	-357.04	138.88	344.48	337.09	7.39	46.604				
1,200.00	1,197.92	1,192.26	1,191.44	4.12	3.97	19.24	-358.12	139.75	336.65	328.56	8.09	41.617				
1,300.00	1,297.29	1,290.39	1,289.56	4.48	4.32	34.06	-359.41	140.68	328.33	319.55	8.78	37.380				
1,400.00	1,396.36	1,390.15	1,389.31	4.84	4.67	44.96	-360.78	141.78	319.56	310.07	9.49	33.688				
1,500.00	1,495.00	1,489.85	1,488.99	5.20	5.02	53.65	-361.95	142.70	310.25	300.06	10.19	30.448				
1,600.00	1,593.09	1,588.50	1,587.64	5.56	5.36	61.31	-362.99	143.39	300.94	290.05	10.89	27.627				
1,700.00	1,690.51	1,686.50	1,685.63	5.92	5.71	68.64	-363.97	143.82	292.34	280.74	11.60	25.204				
1,800.00	1,787.29	1,784.09	1,783.22	6.28	6.06	74.52	-364.81	143.96	285.18	272.87	12.31	23.170				
1,900.00	1,883.98	1,881.61	1,880.73	6.65	6.41	79.42	-365.36	144.12	279.84	266.82	13.02	21.489				
2,000.00	1,980.68	1,979.51	1,978.63	7.02	6.75	84.36	-365.65	144.88	276.42	262.68	13.74	20.123				
2,100.00	2,077.38	2,075.34	2,074.43	7.39	7.08	88.99	-365.77	147.03	274.83	260.38	14.45	19.023				
2,103.14	2,080.42	2,078.26	2,077.36	7.40	7.09	89.13	-365.79	147.10	274.82	260.36	14.47	18.994	CC, ES			
2,200.00	2,174.08	2,170.79	2,169.84	7.77	7.41	93.49	-367.03	149.65	276.23	261.06	15.16	18.219				
2,300.00	2,270.78	2,268.60	2,267.56	8.15	7.76	97.77	-368.64	153.53	279.43	263.54	15.89	17.588				
2,400.00	2,367.48	2,367.29	2,366.12	8.53	8.10	101.82	-370.43	158.22	284.09	267.48	16.62	17.096				
2,500.00	2,464.17	2,465.37	2,464.15	8.92	8.45	106.11	-371.06	161.09	289.88	272.54	17.35	16.711				
2,600.00	2,560.87	2,563.64	2,562.41	9.30	8.79	110.52	-370.91	162.63	297.25	279.18	18.08	16.446				
2,700.00	2,657.57	2,660.75	2,659.50	9.69	9.12	114.57	-370.66	164.74	305.92	287.12	18.80	16.271				
2,800.00	2,754.27	2,757.70	2,756.42	10.08	9.46	118.37	-370.64	166.77	316.33	296.80	19.53	16.199				
2,900.00	2,850.97	2,855.34	2,854.04	10.47	9.80	121.95	-370.55	168.85	328.01	307.76	20.26	16.192				
3,000.00	2,947.66	2,953.09	2,951.77	10.86	10.15	125.28	-370.42	171.11	340.76	319.77	20.99	16.236				
3,100.00	3,044.36	3,050.25	3,048.90	11.25	10.49	128.35	-370.18	173.35	354.51	332.79	21.72	16.325				
3,200.00	3,141.06	3,147.11	3,145.74	11.64	10.83	131.19	-369.97	175.51	369.29	346.85	22.44	16.456				
3,300.00	3,237.76	3,245.57	3,244.17	12.03	11.17	133.87	-369.68	177.72	384.87	361.70	23.18	16.607				
3,400.00	3,334.46	3,342.81	3,341.38	12.43	11.52	136.26	-369.48	180.25	400.98	377.07	23.90	16.774				
3,500.00	3,431.16	3,439.36	3,437.90	12.82	11.86	138.46	-369.34	182.66	417.85	393.22	24.63	16.965				
3,600.00	3,527.85	3,534.95	3,533.47	13.21	12.19	140.50	-369.17	184.71	435.57	410.23	25.35	17.183				
3,700.00	3,624.55	3,632.81	3,631.31	13.61	12.54	142.43	-369.00	186.65	453.96	427.88	26.08	17.406				
3,800.00	3,721.25	3,729.11	3,727.58	14.00	12.88	144.19	-368.83	188.57	472.80	446.00	26.80	17.639				
3,900.00	3,817.95	3,824.14	3,822.60	14.40	13.22	145.78	-368.84	190.21	492.36	464.84	27.52	17.890				
4,000.00	3,914.65	3,922.36	3,920.81	14.79	13.57	147.29	-369.05	191.90	512.38	484.12	28.26	18.132				
4,100.00	4,011.35	4,017.46	4,015.90	15.19	13.91	148.64	-369.28	193.44	532.80	503.82	28.98	18.387				
4,200.00	4,108.04	4,114.58	4,113.01	15.59	14.25	149.92	-369.55	194.84	553.67	523.96	29.71	18.637				
4,300.00	4,204.74	4,211.05	4,209.46	15.98	14.60	151.09	-369.99	196.26	574.82	544.39	30.44	18.886				
4,400.00	4,301.44	4,306.37	4,304.77	16.38	14.94	152.14	-370.68	197.53	596.41	565.25	31.16	19.142				
4,500.00	4,398.14	4,402.71	4,401.10	16.78	15.29	153.13	-371.42	198.62	618.37	586.49	31.89	19.394				
4,600.00	4,494.84	4,499.83	4,498.21	17.17	15.63	154.06	-372.15	199.68	640.54	607.92	32.62	19.637				
4,700.00	4,591.53	4,596.37	4,594.74	17.57	15.98	154.93	-372.93	200.72	662.88	629.53	33.35	19.877				
4,800.00	4,688.23	4,692.57	4,690.94	17.97	16.32	155.73	-373.68	201.68	685.43	651.36	34.08	20.114				
4,900.00	4,784.93	4,787.38	4,785.74	18.37	16.66	156.48	-374.47	202.41	708.34	673.54	34.79	20.357				
5,000.00	4,881.63	4,883.06	4,881.41	18.77	17.00	157.18	-375.45	202.96	731.58	696.06	35.52	20.597				

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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														Rule Assigned:							
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning								
Depth	Depth	Depth	Depth	Reference	Offset		Toolface	+N/-S	+E/-W	Between				Between	Separation	Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)									
5,100.00	4,978.33	4,979.60	4,977.95	19.16	17.35	157.84	-376.45	203.40	755.03	718.78	36.25	20.829									
5,200.00	5,075.03	5,077.61	5,075.95	19.56	17.70	158.47	-377.51	203.91	778.53	741.54	36.99	21.047									
5,300.00	5,171.72	5,176.49	5,174.83	19.96	18.05	159.06	-378.58	204.70	801.84	764.10	37.74	21.248									
5,400.00	5,268.42	5,273.15	5,271.48	20.36	18.40	159.60	-379.68	205.49	825.21	786.74	38.47	21.450									
5,500.00	5,365.12	5,370.99	5,369.30	20.76	18.75	160.10	-381.01	206.48	848.52	809.31	39.21	21.639									
5,600.00	5,461.82	5,464.98	5,463.28	21.16	19.08	160.54	-382.44	207.31	872.02	832.10	39.93	21.841									
5,700.00	5,558.52	5,558.02	5,556.31	21.56	19.41	160.97	-383.86	207.70	896.02	855.39	40.63	22.053									
5,800.00	5,655.21	5,653.37	5,651.64	21.96	19.75	161.37	-385.49	207.86	920.34	878.99	41.35	22.256									
5,900.00	5,751.91	5,749.76	5,748.01	22.35	20.09	161.76	-387.21	207.96	944.77	902.69	42.08	22.451									
6,000.00	5,848.61	5,844.53	5,842.77	22.75	20.43	162.12	-388.91	207.97	969.33	926.54	42.80	22.650									
6,100.00	5,945.31	5,939.05	5,937.27	23.15	20.76	162.45	-390.80	207.72	994.22	950.71	43.51	22.850									
6,200.00	6,042.01	6,037.76	6,035.96	23.55	21.11	162.76	-392.97	207.50	1,019.13	974.87	44.26	23.028									
6,300.00	6,138.71	6,137.60	6,135.79	23.95	21.47	163.10	-394.63	207.51	1,043.77	998.76	45.01	23.188									
6,400.00	6,235.40	6,234.69	6,232.86	24.35	21.81	163.43	-395.87	207.64	1,068.27	1,022.52	45.75	23.351									
6,500.00	6,332.10	6,331.43	6,329.60	24.75	22.16	163.74	-397.07	207.70	1,092.87	1,046.39	46.48	23.512									
6,600.00	6,428.80	6,437.20	6,435.36	25.15	22.53	164.09	-398.03	208.05	1,117.22	1,069.94	47.28	23.631									
6,700.00	6,525.50	6,543.24	6,541.38	25.55	22.90	164.51	-397.21	209.31	1,140.57	1,092.51	48.07	23.729									
6,800.00	6,622.20	6,643.72	6,641.84	25.95	23.24	164.92	-395.74	210.91	1,163.52	1,114.70	48.81	23.836									
6,900.00	6,718.89	6,735.72	6,733.82	26.35	23.56	165.30	-394.06	212.32	1,186.53	1,137.03	49.50	23.970									
7,000.00	6,815.59	6,830.17	6,828.25	26.75	23.88	165.67	-392.38	213.36	1,210.02	1,159.82	50.20	24.102									
7,100.00	6,912.29	6,910.28	6,908.36	27.15	24.15	165.95	-391.54	213.87	1,234.11	1,183.30	50.80	24.292									
7,200.00	7,008.99	6,990.53	6,988.59	27.55	24.42	166.21	-390.98	213.05	1,259.80	1,208.40	51.40	24.512									
7,300.00	7,105.69	7,086.32	7,084.37	27.95	24.74	166.49	-390.84	211.41	1,286.25	1,234.15	52.10	24.688									
7,400.00	7,202.39	7,188.68	7,186.72	28.35	25.08	166.80	-390.25	210.20	1,312.18	1,259.33	52.86	24.825									
7,500.00	7,299.08	7,279.32	7,277.35	28.75	25.39	167.07	-389.54	209.08	1,338.19	1,284.67	53.52	25.002									
7,600.00	7,395.78	7,370.55	7,368.57	29.15	25.69	167.33	-388.82	207.42	1,364.78	1,310.59	54.20	25.182									
7,700.00	7,492.48	7,465.32	7,463.31	29.56	26.01	167.60	-387.96	205.61	1,391.49	1,336.60	54.90	25.348									
7,800.00	7,589.18	7,550.89	7,548.86	29.96	26.30	167.84	-387.08	203.62	1,418.63	1,363.11	55.52	25.550									
7,900.00	7,685.98	7,635.18	7,633.10	30.36	26.58	168.10	-386.19	200.93	1,446.24	1,390.10	56.14	25.761									
8,000.00	7,783.18	7,723.07	7,720.91	30.75	26.87	168.38	-385.28	197.50	1,472.99	1,416.21	56.78	25.942									
8,100.00	7,880.77	7,822.95	7,820.70	31.14	27.21	168.62	-385.09	193.36	1,498.40	1,440.89	57.51	26.053									
8,200.00	7,978.73	7,955.61	7,953.31	31.53	27.66	168.85	-385.50	189.66	1,520.88	1,462.38	58.50	25.997									
8,300.00	8,077.03	8,085.38	8,083.08	31.91	28.11	169.05	-385.77	189.12	1,539.32	1,479.88	59.45	25.894									
8,400.00	8,175.63	8,179.00	8,176.70	32.28	28.45	169.19	-385.98	189.58	1,555.21	1,495.08	60.13	25.863									
8,500.00	8,274.51	8,274.00	8,271.70	32.65	28.78	169.30	-386.28	189.75	1,569.72	1,508.90	60.82	25.808									
8,600.00	8,373.63	8,359.19	8,356.88	33.02	29.08	169.39	-386.73	189.31	1,583.22	1,521.79	61.43	25.771									
8,700.00	8,472.97	8,452.90	8,450.59	33.37	29.40	169.45	-387.53	188.28	1,595.62	1,533.53	62.10	25.696									
8,800.00	8,572.50	8,547.72	8,545.39	33.73	29.73	169.49	-388.66	186.97	1,606.61	1,543.85	62.76	25.598									
8,900.00	8,672.17	8,640.77	8,638.41	34.08	30.06	169.50	-390.53	185.39	1,616.22	1,552.81	63.41	25.488									
9,000.00	8,771.98	8,739.84	8,737.40	34.42	30.41	169.44	-393.70	183.50	1,624.38	1,560.28	64.10	25.341									
9,100.00	8,871.87	8,829.08	8,826.56	34.76	30.72	169.36	-397.17	181.54	1,631.14	1,566.43	64.71	25.206									
9,200.00	8,971.83	8,929.51	8,926.87	35.10	31.07	169.24	-401.45	179.03	1,636.50	1,571.09	65.40	25.021									
9,300.00	9,071.83	9,050.46	9,047.68	35.42	31.50	169.08	-406.57	176.85	1,639.46	1,573.22	66.24	24.751									
9,400.00	9,171.44	9,156.65	9,153.79	35.73	31.88	88.06	-410.84	175.85	1,640.31	1,573.36	66.95	24.499									
9,500.00	9,268.29	9,254.92	9,251.97	36.04	32.23	88.74	-414.86	175.06	1,640.56	1,572.95	67.62	24.263									
9,600.00	9,359.44	9,348.65	9,345.62	36.33	32.56	89.92	-418.60	174.38	1,640.91	1,572.65	68.26	24.040									
9,700.00	9,442.11	9,433.21	9,430.12	36.59	32.86	91.31	-421.84	173.77	1,642.49	1,573.65	68.84	23.858									
9,800.00	9,513.79	9,507.78	9,504.63	36.83	33.13	92.62	-424.74	173.24	1,646.67	1,577.29	69.38	23.735									
9,900.00	9,572.31	9,571.77	9,568.57	37.05	33.36	93.55	-427.32	172.82	1,654.80	1,584.94	69.85	23.689									
10,000.00	9,615.89	9,619.37	9,616.12	37.26	33.53	93.67	-429.31	172.55	1,668.06	1,597.84	70.22	23.754									
10,100.00	9,643.92	9,650.32	9,647.05	37.46	33.64	93.17	-430.56	172.37	1,687.26	1,616.79	70.47	23.942									
10,200.00	9,662.03	9,671.56	9,668.27	37.67	33.71	92.60	-431.40	172.24	1,712.23	1,641.58	70.65	24.236									

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,300.00	9,671.50	9,684.38	9,681.08	37.89	33.76	91.44	-431.89	172.16	1,742.79	1,672.03	70.75	24.632		
10,400.00	9,673.00	9,689.49	9,686.19	38.11	33.78	90.53	-432.09	172.12	1,778.59	1,707.81	70.79	25.125		
10,500.00	9,673.00	9,694.00	9,690.69	38.34	33.79	90.69	-432.26	172.09	1,819.21	1,748.40	70.81	25.690		
10,600.00	9,673.00	9,696.93	9,693.62	38.58	33.80	90.79	-432.37	172.07	1,864.31	1,793.49	70.82	26.325		
10,700.00	9,673.00	9,700.83	9,697.52	38.83	33.82	90.92	-432.52	172.05	1,913.56	1,842.73	70.82	27.018		
10,800.00	9,673.00	9,704.78	9,701.46	39.10	33.83	91.06	-432.67	172.02	1,966.66	1,895.83	70.83	27.767		
10,900.00	9,673.00	11,675.48	10,753.35	39.37	41.91	123.27	-1,605.04	171.19	1,972.79	1,896.84	75.94	25.977		
11,000.00	9,673.00	11,761.42	10,754.87	39.65	42.48	123.32	-1,690.96	172.15	1,973.25	1,896.45	76.79	25.695		
11,100.00	9,673.00	11,832.24	10,755.90	39.95	42.97	123.33	-1,761.77	171.45	1,975.21	1,897.62	77.59	25.457		
11,200.00	9,673.00	11,932.81	10,756.35	40.25	43.70	123.30	-1,862.31	169.22	1,977.69	1,899.06	78.63	25.151		
11,300.00	9,673.00	12,058.34	10,756.18	40.57	44.65	123.23	-1,987.79	165.78	1,980.46	1,900.53	79.93	24.778		
11,400.00	9,673.00	12,189.25	10,756.22	40.90	45.70	123.23	-2,118.69	166.53	1,980.20	1,898.91	81.30	24.358		
11,500.00	9,673.00	12,305.27	10,756.95	41.23	46.68	123.27	-2,234.70	168.45	1,979.55	1,896.96	82.59	23.969		
11,600.00	9,673.00	12,408.83	10,757.09	41.58	47.58	123.31	-2,338.23	170.83	1,978.07	1,894.26	83.82	23.600		
11,671.54	9,673.00	12,455.00	10,757.23	41.83	47.99	123.32	-2,384.39	171.52	1,977.58	1,893.11	84.47	23.411		
11,700.00	9,673.00	12,455.00	10,757.23	41.93	47.99	123.32	-2,384.39	171.52	1,977.78	1,893.22	84.57	23.387		
11,800.00	9,673.00	12,455.00	10,757.23	42.30	47.99	123.32	-2,384.39	171.52	1,981.75	1,896.88	84.87	23.351		
11,900.00	9,673.00	12,455.00	10,757.23	42.67	47.99	123.32	-2,384.39	171.52	1,990.73	1,905.62	85.11	23.390		
12,000.00	9,673.00	12,455.00	10,757.23	43.06	47.99	123.32	-2,384.39	171.52	2,004.67	1,919.37	85.30	23.502		
12,100.00	9,673.00	12,455.00	10,757.23	43.45	47.99	123.32	-2,384.39	171.52	2,023.46	1,938.03	85.43	23.686		
12,200.00	9,673.00	12,455.00	10,757.23	43.85	47.99	123.32	-2,384.39	171.52	2,046.97	1,961.47	85.50	23.940		
12,300.00	9,673.00	12,455.00	10,757.23	44.26	47.99	123.32	-2,384.39	171.52	2,075.04	1,989.51	85.53	24.261		
12,400.00	9,673.00	12,455.00	10,757.23	44.68	47.99	123.32	-2,384.39	171.52	2,107.48	2,021.97	85.51	24.647		
12,500.00	9,673.00	12,455.00	10,757.23	45.11	47.99	123.32	-2,384.39	171.52	2,144.10	2,058.66	85.44	25.095		
12,600.00	9,673.00	12,455.00	10,757.23	45.55	47.99	123.32	-2,384.39	171.52	2,184.69	2,099.35	85.34	25.600		
12,700.00	9,673.00	12,455.00	10,757.23	45.99	47.99	123.32	-2,384.39	171.52	2,229.02	2,143.82	85.20	26.161		
12,800.00	9,673.00	12,455.00	10,757.23	46.44	47.99	123.32	-2,384.39	171.52	2,276.89	2,191.85	85.04	26.773		
12,900.00	9,673.00	12,455.00	10,757.23	46.90	47.99	123.32	-2,384.39	171.52	2,328.07	2,243.21	84.86	27.433		
13,000.00	9,673.00	12,455.00	10,757.23	47.37	47.99	123.32	-2,384.39	171.52	2,382.35	2,297.69	84.67	28.138		
13,100.00	9,673.00	12,455.00	10,757.23	47.84	47.99	123.32	-2,384.39	171.52	2,439.53	2,355.07	84.46	28.884		
13,200.00	9,673.00	12,455.00	10,757.23	48.32	47.99	123.32	-2,384.39	171.52	2,499.40	2,415.15	84.24	29.669		
13,300.00	9,673.00	12,455.00	10,757.23	48.81	47.99	123.32	-2,384.39	171.52	2,561.77	2,477.75	84.02	30.489		
13,400.00	9,673.00	12,455.00	10,757.23	49.30	47.99	123.32	-2,384.39	171.52	2,626.48	2,542.67	83.80	31.342		
13,500.00	9,673.00	12,455.00	10,757.23	49.80	47.99	123.32	-2,384.39	171.52	2,693.34	2,609.76	83.58	32.225		
13,600.00	9,673.00	12,455.00	10,757.23	50.31	47.99	123.32	-2,384.39	171.52	2,762.20	2,678.84	83.36	33.135		
13,700.00	9,673.00	12,455.00	10,757.23	50.82	47.99	123.32	-2,384.39	171.52	2,832.92	2,749.77	83.15	34.071		
13,800.00	9,673.00	12,455.00	10,757.23	51.34	47.99	123.32	-2,384.39	171.52	2,905.36	2,822.42	82.94	35.030		
13,900.00	9,673.00	12,455.00	10,757.23	51.87	47.99	123.32	-2,384.39	171.52	2,979.40	2,896.66	82.74	36.011		
14,000.00	9,673.00	12,455.00	10,757.23	52.40	47.99	123.32	-2,384.39	171.52	3,054.92	2,972.38	82.54	37.010		
14,100.00	9,673.00	12,455.00	10,757.23	52.94	47.99	124.31	-2,384.39	171.52	3,131.91	3,049.56	82.36	38.029		
14,200.00	9,673.00	12,455.00	10,757.23	53.49	47.99	132.31	-2,384.39	171.52	3,214.78	3,132.55	82.23	39.094		
14,300.00	9,673.00	12,455.00	10,757.23	54.08	47.99	145.31	-2,384.39	171.52	3,304.06	3,221.87	82.19	40.202		
14,400.00	9,673.00	12,455.00	10,757.23	54.68	47.99	165.64	-2,384.39	171.52	3,397.29	3,315.07	82.22	41.319		
14,500.00	9,673.00	12,455.00	10,757.23	55.27	47.99	-168.69	-2,384.39	171.52	3,492.09	3,409.76	82.33	42.417		
14,600.00	9,673.00	12,455.00	10,757.23	55.84	47.99	-146.36	-2,384.39	171.52	3,586.25	3,503.74	82.50	43.467		
14,700.00	9,673.00	12,455.00	10,757.23	56.38	47.99	-131.53	-2,384.39	171.52	3,677.74	3,594.99	82.75	44.445		
14,800.00	9,673.00	12,455.00	10,757.23	56.88	47.99	-122.31	-2,384.39	171.52	3,764.73	3,681.67	83.05	45.328		
14,900.00	9,673.00	12,455.00	10,757.23	57.31	47.99	-116.44	-2,384.39	171.52	3,845.59	3,762.16	83.42	46.098		
15,000.00	9,673.00	12,455.00	10,757.23	57.68	47.99	-112.55	-2,384.39	171.52	3,918.89	3,835.05	83.85	46.738		
15,100.00	9,673.00	12,455.00	10,757.23	57.96	47.99	-109.89	-2,384.39	171.52	3,983.43	3,899.10	84.33	47.237		
15,200.00	9,673.00	12,455.00	10,757.23	58.17	47.99	-108.04	-2,384.39	171.52	4,038.16	3,953.29	84.86	47.584		
15,300.00	9,673.00	12,455.00	10,757.23	58.28	47.99	-106.76	-2,384.39	171.52	4,082.24	3,996.80	85.45	47.776		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,400.00	9,673.00	12,455.00	10,757.23	58.32	47.99	-105.91	-2,384.39	171.52	4,115.03	4,028.96	86.07	47.812		
15,500.00	9,673.00	12,455.00	10,757.23	58.28	47.99	-105.40	-2,384.39	171.52	4,136.03	4,049.31	86.72	47.692		
15,600.00	9,673.00	12,455.00	10,757.23	58.17	47.99	-105.20	-2,384.39	171.52	4,144.96	4,057.56	87.40	47.424		
15,700.00	9,673.00	12,455.00	10,757.23	58.00	47.99	-105.27	-2,384.39	171.52	4,141.69	4,053.59	88.09	47.015		
15,800.00	9,673.00	12,455.00	10,757.23	57.78	47.99	-105.64	-2,384.39	171.52	4,126.25	4,037.46	88.79	46.473		
15,900.00	9,673.00	12,455.00	10,757.23	57.54	47.99	-106.32	-2,384.39	171.52	4,098.87	4,009.40	89.47	45.810		
16,000.00	9,673.00	12,455.00	10,757.23	57.27	47.99	-107.38	-2,384.39	171.52	4,059.96	3,969.81	90.15	45.038		
16,100.00	9,673.00	12,455.00	10,757.23	56.99	47.99	-108.95	-2,384.39	171.52	4,010.07	3,919.27	90.79	44.167		
16,200.00	9,673.00	12,455.00	10,757.23	56.72	47.99	-110.03	-2,384.39	171.52	3,951.59	3,860.18	91.42	43.227		
16,300.00	9,673.00	12,455.00	10,757.23	56.46	47.99	-110.08	-2,384.39	171.52	3,892.54	3,800.49	92.04	42.290		
16,400.00	9,673.00	12,455.00	10,757.23	56.21	47.99	-110.08	-2,384.39	171.52	3,835.16	3,742.47	92.69	41.376		
16,500.00	9,673.00	12,455.00	10,757.23	55.97	47.99	-110.08	-2,384.39	171.52	3,779.57	3,686.21	93.35	40.486		
16,600.00	9,673.00	12,455.00	10,757.23	55.73	47.99	-110.08	-2,384.39	171.52	3,725.83	3,631.79	94.03	39.622		
16,700.00	9,673.00	12,455.00	10,757.23	55.50	47.99	-110.08	-2,384.39	171.52	3,674.02	3,579.29	94.73	38.785		
16,800.00	9,673.00	12,455.00	10,757.23	55.28	47.99	-110.08	-2,384.39	171.52	3,624.23	3,528.80	95.44	37.976		
16,900.00	9,673.00	12,455.00	10,757.23	55.06	47.99	-110.08	-2,384.39	171.52	3,576.55	3,480.40	96.15	37.197		
17,000.00	9,673.00	12,455.00	10,757.23	54.86	47.99	-110.08	-2,384.39	171.52	3,531.06	3,434.18	96.88	36.449		
17,100.00	9,673.00	12,455.00	10,757.23	54.66	47.99	-110.08	-2,384.39	171.52	3,487.84	3,390.23	97.61	35.734		
17,200.00	9,673.00	12,455.00	10,757.23	54.47	47.99	-110.08	-2,384.39	171.52	3,446.98	3,348.64	98.34	35.053		
17,300.00	9,673.00	12,455.00	10,757.23	54.28	47.99	-110.08	-2,384.39	171.52	3,408.56	3,309.50	99.06	34.408		
17,400.00	9,673.00	12,455.00	10,757.23	54.11	47.99	-110.08	-2,384.39	171.52	3,372.68	3,272.89	99.79	33.799		
17,500.00	9,673.00	12,455.00	10,757.23	53.94	47.99	-110.08	-2,384.39	171.52	3,339.40	3,238.90	100.50	33.228		
17,600.00	9,673.00	12,455.00	10,757.23	53.78	47.99	-110.08	-2,384.39	171.52	3,308.81	3,207.62	101.20	32.696		
17,700.00	9,673.00	12,455.00	10,757.23	53.63	47.99	-110.08	-2,384.39	171.52	3,280.99	3,179.11	101.88	32.205		
17,800.00	9,673.00	12,455.00	10,757.23	53.49	47.99	-110.08	-2,384.39	171.52	3,256.00	3,153.46	102.54	31.754		
17,900.00	9,673.00	12,455.00	10,757.23	53.35	47.99	-110.08	-2,384.39	171.52	3,233.91	3,130.74	103.17	31.345		
18,000.00	9,673.00	12,455.00	10,757.23	53.23	47.99	-110.08	-2,384.39	171.52	3,214.78	3,111.01	103.77	30.979		
18,100.00	9,673.00	12,455.00	10,757.23	53.11	47.99	-110.08	-2,384.39	171.52	3,198.67	3,094.33	104.34	30.656		
18,200.00	9,673.00	12,455.00	10,757.23	53.00	47.99	-110.08	-2,384.39	171.52	3,185.61	3,080.74	104.87	30.376		
18,300.00	9,673.00	12,455.00	10,757.23	52.91	47.99	-110.08	-2,384.39	171.52	3,175.65	3,070.29	105.36	30.141		
18,400.00	9,673.00	12,455.00	10,757.23	52.82	47.99	-110.08	-2,384.39	171.52	3,168.82	3,063.02	105.80	29.950		
18,500.00	9,673.00	12,455.00	10,757.23	52.74	47.99	-110.08	-2,384.39	171.52	3,165.13	3,058.93	106.20	29.804		
18,566.76	9,673.00	12,455.00	10,757.23	52.70	47.99	-110.08	-2,384.39	171.52	3,164.43	3,057.99	106.44	29.730		
18,600.00	9,673.00	12,455.00	10,757.23	52.67	47.99	-110.08	-2,384.39	171.52	3,164.60	3,058.06	106.55	29.702		
18,700.00	9,673.00	12,387.17	10,757.05	52.62	47.39	-110.07	-2,316.58	170.30	3,165.91	3,059.71	106.20	29.812		
18,800.00	9,673.00	12,251.52	10,756.81	52.57	46.22	-110.05	-2,180.96	167.54	3,167.32	3,062.09	105.23	30.099		
18,900.00	9,673.00	12,070.36	10,756.09	52.54	44.74	-110.03	-1,999.81	166.08	3,167.97	3,064.06	103.92	30.486		
19,000.00	9,673.00	11,931.31	10,756.35	52.51	43.69	-110.06	-1,880.82	169.25	3,165.37	3,062.29	103.08	30.707		
19,100.00	9,673.00	11,839.63	10,755.98	52.50	43.03	-110.07	-1,769.16	171.31	3,162.70	3,060.00	102.70	30.795		
19,200.00	9,673.00	11,779.44	10,755.16	52.50	42.61	-110.06	-1,708.98	172.14	3,160.62	3,058.02	102.60	30.806		
19,280.18	9,673.00	11,724.00	10,754.19	52.51	42.23	-110.05	-1,653.55	171.81	3,160.13	3,057.67	102.45	30.844		
19,300.00	9,673.00	11,737.63	10,754.46	52.51	42.32	-110.05	-1,667.17	172.04	3,160.06	3,057.43	102.62	30.793		
19,400.00	9,673.00	11,614.55	10,752.52	52.53	41.52	-110.01	-1,544.12	170.77	3,160.04	3,057.96	102.08	30.956		
19,500.00	9,673.00	9,694.00	9,690.69	52.57	33.79	-90.38	-432.26	172.09	3,133.30	3,050.88	82.42	38.017		
19,600.00	9,673.00	9,689.89	9,686.58	52.62	33.78	-90.30	-432.10	172.12	3,102.22	3,019.34	82.88	37.430		
19,700.00	9,673.00	9,686.30	9,683.00	52.68	33.77	-90.23	-431.96	172.14	3,074.08	2,990.73	83.35	36.884		
19,800.00	9,673.00	9,682.68	9,679.38	52.75	33.75	-90.16	-431.83	172.17	3,048.95	2,965.15	83.81	36.381		
19,900.00	9,673.00	9,679.03	9,675.74	52.84	33.74	-90.09	-431.69	172.19	3,026.92	2,942.66	84.26	35.923		
20,000.00	9,673.00	9,675.36	9,672.07	52.94	33.73	-90.02	-431.54	172.21	3,008.05	2,923.34	84.71	35.512		
20,100.00	9,673.00	9,671.66	9,668.37	53.06	33.71	-89.95	-431.40	172.24	2,992.39	2,907.25	85.14	35.148		
20,200.00	9,673.00	9,667.92	9,664.64	53.19	33.70	-89.88	-431.25	172.26	2,980.01	2,894.46	85.55	34.833		
20,300.00	9,673.00	9,664.16	9,660.88	53.33	33.69	-89.80	-431.11	172.28	2,970.94	2,884.99	85.95	34.566		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - OH - OH Svy														
Survey Program: 143-MWD+HRGM											Offset Site Error:	0.00 usft		
Reference											Rule Assigned:		Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,400.00	9,673.00	9,660.37	9,657.09	53.49	33.67	-89.73	-430.96	172.31	2,965.20	2,878.88	86.32	34.350		
20,500.00	9,673.00	9,656.54	9,653.27	53.66	33.66	-89.66	-430.81	172.33	2,962.83	2,876.16	86.67	34.183		
20,520.36	9,673.00	9,655.76	9,652.48	53.70	33.66	-89.64	-430.77	172.33	2,962.76	2,876.02	86.74	34.155		
20,600.00	9,673.00	9,652.69	9,649.41	53.84	33.65	-89.58	-430.65	172.35	2,963.83	2,876.83	87.00	34.067		
20,610.93	9,673.00	9,652.26	9,648.99	54.93	33.64	-89.57	-430.64	172.35	2,964.15	2,877.16	86.98	34.078		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	153.91	-331.99	162.55	369.65	369.65				
100.00	100.00	96.16	96.15	0.28	0.16	154.09	-332.72	161.60	369.89	369.46	0.43	862.449		
200.00	200.00	194.84	194.77	0.63	0.42	154.61	-334.83	158.92	370.64	369.59	1.05	353.112		
300.00	300.00	295.53	295.35	0.99	0.78	155.31	-337.43	155.13	371.40	369.62	1.77	209.278		
400.00	400.00	395.02	394.71	1.35	1.15	156.09	-340.22	150.84	372.17	369.68	2.50	149.048		
500.00	500.00	494.17	493.73	1.71	1.51	156.86	-343.16	146.64	373.21	369.99	3.22	115.974		
600.00	599.98	593.35	592.79	2.05	1.87	-22.50	-346.19	142.69	372.87	368.95	3.92	95.077		
700.00	699.84	692.74	692.04	2.39	2.24	-22.07	-349.41	138.63	369.47	364.86	4.62	80.008		
800.00	799.49	791.22	790.46	2.73	2.59	-22.14	-352.02	136.73	363.53	358.22	5.31	68.456		
900.00	899.11	890.98	890.20	3.07	2.93	-22.62	-353.96	137.22	357.45	351.45	6.00	59.592		
1,000.00	998.73	991.23	990.44	3.42	3.28	-23.20	-355.62	138.11	351.28	344.59	6.69	52.502		
1,100.00	1,098.36	1,092.41	1,091.60	3.77	3.63	-0.75	-357.04	138.88	344.48	337.09	7.39	46.604		
1,200.00	1,197.92	1,192.26	1,191.44	4.12	3.97	19.24	-358.12	139.75	336.65	328.56	8.09	41.617		
1,300.00	1,297.29	1,290.39	1,289.56	4.48	4.32	34.06	-359.41	140.68	328.33	319.55	8.78	37.380		
1,400.00	1,396.36	1,390.15	1,389.31	4.84	4.67	44.96	-360.78	141.78	319.56	310.07	9.49	33.688		
1,500.00	1,495.00	1,489.85	1,488.99	5.20	5.02	53.65	-361.95	142.70	310.25	300.06	10.19	30.448		
1,600.00	1,593.09	1,588.50	1,587.64	5.56	5.36	61.31	-362.99	143.39	300.94	290.05	10.89	27.627		
1,700.00	1,690.51	1,686.50	1,685.63	5.92	5.71	68.64	-363.97	143.82	292.34	280.74	11.60	25.204		
1,800.00	1,787.29	1,784.09	1,783.22	6.28	6.06	74.52	-364.81	143.96	285.18	272.87	12.31	23.170		
1,900.00	1,883.98	1,881.61	1,880.73	6.65	6.41	79.42	-365.36	144.12	279.84	266.82	13.02	21.489		
2,000.00	1,980.68	1,979.51	1,978.63	7.02	6.75	84.36	-365.65	144.88	276.42	262.68	13.74	20.123		
2,100.00	2,077.38	2,075.34	2,074.43	7.39	7.08	88.99	-365.77	147.03	274.83	260.38	14.45	19.023		
2,103.14	2,080.42	2,078.26	2,077.36	7.40	7.09	89.13	-365.79	147.10	274.82	260.36	14.47	18.994	CC, ES	
2,200.00	2,174.08	2,170.79	2,169.84	7.77	7.41	93.49	-367.03	149.65	276.23	261.06	15.16	18.219		
2,300.00	2,270.78	2,268.60	2,267.56	8.15	7.76	97.77	-368.64	153.53	279.43	263.54	15.89	17.588		
2,400.00	2,367.48	2,367.29	2,366.12	8.53	8.10	101.82	-370.43	158.22	284.09	267.48	16.62	17.096		
2,500.00	2,464.17	2,465.37	2,464.15	8.92	8.45	106.11	-371.06	161.09	289.88	272.54	17.35	16.711		
2,600.00	2,560.87	2,563.64	2,562.41	9.30	8.79	110.52	-370.91	162.63	297.25	279.18	18.08	16.446		
2,700.00	2,657.57	2,660.75	2,659.50	9.69	9.12	114.57	-370.66	164.74	305.92	287.12	18.80	16.271		
2,800.00	2,754.27	2,757.70	2,756.42	10.08	9.46	118.37	-370.64	166.77	316.33	296.80	19.53	16.199		
2,900.00	2,850.97	2,855.34	2,854.04	10.47	9.80	121.95	-370.55	168.85	328.01	307.76	20.26	16.192		
3,000.00	2,947.66	2,953.09	2,951.77	10.86	10.15	125.28	-370.42	171.11	340.76	319.77	20.99	16.236		
3,100.00	3,044.36	3,050.25	3,048.90	11.25	10.49	128.35	-370.18	173.35	354.51	332.79	21.72	16.325		
3,200.00	3,141.06	3,147.11	3,145.74	11.64	10.83	131.19	-369.97	175.51	369.29	346.85	22.44	16.456		
3,300.00	3,237.76	3,245.57	3,244.17	12.03	11.17	133.87	-369.68	177.72	384.87	361.70	23.18	16.607		
3,400.00	3,334.46	3,342.81	3,341.38	12.43	11.52	136.26	-369.48	180.25	400.98	377.07	23.90	16.774		
3,500.00	3,431.16	3,439.36	3,437.90	12.82	11.86	138.46	-369.34	182.66	417.85	393.22	24.63	16.965		
3,600.00	3,527.85	3,534.95	3,533.47	13.21	12.19	140.50	-369.17	184.71	435.57	410.23	25.35	17.183		
3,700.00	3,624.55	3,632.81	3,631.31	13.61	12.54	142.43	-369.00	186.65	453.96	427.88	26.08	17.406		
3,800.00	3,721.25	3,729.11	3,727.58	14.00	12.88	144.19	-368.83	188.57	472.80	446.00	26.80	17.639		
3,900.00	3,817.95	3,824.14	3,822.60	14.40	13.22	145.78	-368.84	190.21	492.36	464.84	27.52	17.890		
4,000.00	3,914.65	3,922.36	3,920.81	14.79	13.57	147.29	-369.05	191.90	512.38	484.12	28.26	18.132		
4,100.00	4,011.35	4,017.46	4,015.90	15.19	13.91	148.64	-369.28	193.44	532.80	503.82	28.98	18.387		
4,200.00	4,108.04	4,114.58	4,113.01	15.59	14.25	149.92	-369.55	194.84	553.67	523.96	29.71	18.637		
4,300.00	4,204.74	4,211.05	4,209.46	15.98	14.60	151.09	-369.99	196.26	574.82	544.39	30.44	18.886		
4,400.00	4,301.44	4,306.37	4,304.77	16.38	14.94	152.14	-370.68	197.53	596.41	565.25	31.16	19.142		
4,500.00	4,398.14	4,402.71	4,401.10	16.78	15.29	153.13	-371.42	198.62	618.37	586.49	31.89	19.394		
4,600.00	4,494.84	4,499.83	4,498.21	17.17	15.63	154.06	-372.15	199.68	640.54	607.92	32.62	19.637		
4,700.00	4,591.53	4,596.37	4,594.74	17.57	15.98	154.93	-372.93	200.72	662.88	629.53	33.35	19.877		
4,800.00	4,688.23	4,692.57	4,690.94	17.97	16.32	155.73	-373.68	201.68	685.43	651.36	34.08	20.114		
4,900.00	4,784.93	4,787.38	4,785.74	18.37	16.66	156.48	-374.47	202.41	708.34	673.54	34.79	20.357		
5,000.00	4,881.63	4,883.06	4,881.41	18.77	17.00	157.18	-375.45	202.96	731.58	696.06	35.52	20.597		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	4,978.33	4,979.60	4,977.95	19.16	17.35	157.84	-376.45	203.40	755.03	718.78	36.25	20.829			
5,200.00	5,075.03	5,077.61	5,075.95	19.56	17.70	158.47	-377.51	203.91	778.53	741.54	36.99	21.047			
5,300.00	5,171.72	5,176.49	5,174.83	19.96	18.05	159.06	-378.58	204.70	801.84	764.10	37.74	21.248			
5,400.00	5,268.42	5,273.15	5,271.48	20.36	18.40	159.60	-379.68	205.49	825.21	786.74	38.47	21.450			
5,500.00	5,365.12	5,370.99	5,369.30	20.76	18.75	160.10	-381.01	206.48	848.52	809.31	39.21	21.639			
5,600.00	5,461.82	5,464.98	5,463.28	21.16	19.08	160.54	-382.44	207.31	872.02	832.10	39.93	21.841			
5,700.00	5,558.52	5,558.02	5,556.31	21.56	19.41	160.97	-383.86	207.70	896.02	855.39	40.63	22.053			
5,800.00	5,655.21	5,653.37	5,651.64	21.96	19.75	161.37	-385.49	207.86	920.34	878.99	41.35	22.256			
5,900.00	5,751.91	5,749.76	5,748.01	22.35	20.09	161.76	-387.21	207.96	944.77	902.69	42.08	22.451			
6,000.00	5,848.61	5,844.53	5,842.77	22.75	20.43	162.12	-388.91	207.97	969.33	926.54	42.80	22.650			
6,100.00	5,945.31	5,939.05	5,937.27	23.15	20.76	162.45	-390.80	207.72	994.22	950.71	43.51	22.850			
6,200.00	6,042.01	6,037.76	6,035.96	23.55	21.11	162.76	-392.97	207.50	1,019.13	974.87	44.26	23.028			
6,300.00	6,138.71	6,137.60	6,135.79	23.95	21.47	163.10	-394.63	207.51	1,043.77	998.76	45.01	23.188			
6,400.00	6,235.40	6,234.69	6,232.86	24.35	21.81	163.43	-395.87	207.64	1,068.27	1,022.52	45.75	23.351			
6,500.00	6,332.10	6,331.43	6,329.60	24.75	22.16	163.74	-397.07	207.70	1,092.87	1,046.39	46.48	23.512			
6,600.00	6,428.80	6,437.20	6,435.36	25.15	22.53	164.09	-398.03	208.05	1,117.22	1,069.94	47.28	23.631			
6,700.00	6,525.50	6,543.24	6,541.38	25.55	22.90	164.51	-397.21	209.31	1,140.57	1,092.51	48.07	23.729			
6,800.00	6,622.20	6,643.72	6,641.84	25.95	23.24	164.92	-395.74	210.91	1,163.52	1,114.70	48.81	23.836			
6,900.00	6,718.89	6,735.72	6,733.82	26.35	23.56	165.30	-394.06	212.32	1,186.53	1,137.03	49.50	23.970			
7,000.00	6,815.59	6,830.17	6,828.25	26.75	23.88	165.67	-392.38	213.36	1,210.02	1,159.82	50.20	24.102			
7,100.00	6,912.29	6,910.28	6,908.36	27.15	24.15	165.95	-391.54	213.87	1,234.11	1,183.30	50.80	24.292			
7,200.00	7,008.99	6,990.53	6,988.59	27.55	24.42	166.21	-390.98	213.05	1,259.80	1,208.40	51.40	24.512			
7,300.00	7,105.69	7,086.32	7,084.37	27.95	24.74	166.49	-390.84	211.41	1,286.25	1,234.15	52.10	24.688			
7,400.00	7,202.39	7,188.68	7,186.72	28.35	25.08	166.80	-390.25	210.20	1,312.18	1,259.33	52.86	24.825			
7,500.00	7,299.08	7,279.32	7,277.35	28.75	25.39	167.07	-389.54	209.08	1,338.19	1,284.67	53.52	25.002			
7,600.00	7,395.78	7,370.55	7,368.57	29.15	25.69	167.33	-388.82	207.42	1,364.78	1,310.59	54.20	25.182			
7,700.00	7,492.48	7,465.32	7,463.31	29.56	26.01	167.60	-387.96	205.61	1,391.49	1,336.60	54.90	25.348			
7,800.00	7,589.18	7,550.89	7,548.86	29.96	26.30	167.84	-387.08	203.62	1,418.63	1,363.11	55.52	25.550			
7,900.00	7,685.98	7,635.18	7,633.10	30.36	26.58	168.10	-386.19	200.93	1,446.24	1,390.10	56.14	25.761			
8,000.00	7,783.18	7,723.07	7,720.91	30.75	26.87	168.38	-385.28	197.50	1,472.99	1,416.21	56.78	25.942			
8,100.00	7,880.77	7,822.95	7,820.70	31.14	27.21	168.62	-385.09	193.36	1,498.40	1,440.89	57.51	26.053			
8,200.00	7,978.73	7,955.61	7,953.31	31.53	27.66	168.85	-385.50	189.66	1,520.88	1,462.38	58.50	25.997			
8,300.00	8,077.03	8,085.38	8,083.08	31.91	28.11	169.05	-385.77	189.12	1,539.32	1,479.88	59.45	25.894			
8,400.00	8,175.63	8,179.00	8,176.70	32.28	28.45	169.19	-385.98	189.58	1,555.21	1,495.08	60.13	25.863			
8,500.00	8,274.51	8,274.00	8,271.70	32.65	28.78	169.30	-386.28	189.75	1,569.72	1,508.90	60.82	25.808			
8,600.00	8,373.63	8,359.19	8,356.88	33.02	29.08	169.39	-386.73	189.31	1,583.22	1,521.79	61.43	25.771			
8,700.00	8,472.97	8,452.90	8,450.59	33.37	29.40	169.45	-387.53	188.28	1,595.62	1,533.53	62.10	25.696			
8,800.00	8,572.50	8,547.72	8,545.39	33.73	29.73	169.49	-388.66	186.97	1,606.61	1,543.85	62.76	25.598			
8,900.00	8,672.17	8,640.77	8,638.41	34.08	30.06	169.50	-390.53	185.39	1,616.22	1,552.81	63.41	25.488			
9,000.00	8,771.98	8,739.84	8,737.40	34.42	30.41	169.44	-393.70	183.50	1,624.38	1,560.28	64.10	25.341			
9,100.00	8,871.87	8,829.08	8,826.56	34.76	30.72	169.36	-397.17	181.54	1,631.14	1,566.43	64.71	25.206			
9,200.00	8,971.83	8,929.51	8,926.87	35.10	31.07	169.24	-401.45	179.03	1,636.50	1,571.09	65.40	25.021			
9,300.00	9,071.83	9,050.46	9,047.68	35.42	31.50	169.08	-406.57	176.85	1,639.46	1,573.22	66.24	24.751			
9,400.00	9,171.44	9,156.65	9,153.79	35.73	31.88	88.06	-410.84	175.85	1,640.31	1,573.36	66.95	24.499			
9,500.00	9,268.29	9,254.92	9,251.97	36.04	32.23	88.74	-414.86	175.06	1,640.56	1,572.95	67.62	24.263			
9,600.00	9,359.44	9,348.65	9,345.62	36.33	32.56	89.92	-418.60	174.38	1,640.91	1,572.65	68.26	24.040			
9,700.00	9,442.11	9,433.21	9,430.12	36.59	32.86	91.31	-421.84	173.77	1,642.49	1,573.65	68.84	23.858			
9,800.00	9,513.79	9,507.78	9,504.63	36.83	33.13	92.62	-424.74	173.24	1,646.67	1,577.29	69.38	23.735			
9,900.00	9,572.31	9,571.77	9,568.57	37.05	33.36	93.55	-427.32	172.82	1,654.80	1,584.94	69.85	23.689			
10,000.00	9,615.89	9,619.37	9,616.12	37.26	33.53	93.67	-429.31	172.55	1,668.06	1,597.84	70.22	23.754			
10,100.00	9,643.92	9,650.32	9,647.05	37.46	33.64	93.17	-430.56	172.37	1,687.26	1,616.79	70.47	23.942			
10,200.00	9,662.03	9,671.56	9,668.27	37.67	33.71	92.60	-431.40	172.24	1,712.23	1,641.58	70.65	24.236			

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	9,671.50	9,684.38	9,681.08	37.89	33.76	91.44	-431.89	172.16	1,742.79	1,672.03	70.75	24.632		
10,400.00	9,673.00	9,689.49	9,686.19	38.11	33.78	90.53	-432.09	172.12	1,778.59	1,707.81	70.79	25.125		
10,500.00	9,673.00	9,694.00	9,690.69	38.34	33.79	90.69	-432.26	172.09	1,819.21	1,748.40	70.81	25.690		
10,600.00	9,673.00	9,696.93	9,693.62	38.58	33.80	90.79	-432.37	172.07	1,864.31	1,793.49	70.82	26.325		
10,700.00	9,673.00	9,700.83	9,697.52	38.83	33.82	90.92	-432.52	172.05	1,913.56	1,842.73	70.82	27.018		
10,800.00	9,673.00	9,704.78	9,701.46	39.10	33.83	91.06	-432.67	172.02	1,966.66	1,895.83	70.83	27.767		
10,900.00	9,673.00	9,708.76	9,705.45	39.37	33.85	91.20	-432.83	172.00	2,023.31	1,952.48	70.82	28.568		
11,000.00	9,673.00	11,688.41	10,757.80	39.65	41.06	121.91	-1,607.72	75.04	2,058.90	1,983.10	75.81	27.160		
11,100.00	9,673.00	11,781.29	10,757.75	39.95	41.61	121.82	-1,700.43	69.43	2,064.38	1,987.67	76.71	26.912		
11,200.00	9,673.00	11,929.32	10,757.90	40.25	42.57	121.70	-1,848.27	62.13	2,069.18	1,991.15	78.02	26.521		
11,300.00	9,673.00	12,084.85	10,756.44	40.57	43.67	121.63	-2,003.77	60.08	2,069.75	1,990.28	79.47	26.045		
11,400.00	9,673.00	12,172.79	10,755.23	40.90	44.33	121.58	-2,091.70	58.98	2,070.48	1,990.00	80.48	25.726		
11,500.00	9,673.00	12,610.35	10,757.00	41.23	47.94	122.17	-2,525.55	98.30	2,063.37	1,979.29	84.08	24.540		
11,600.00	9,673.00	12,674.00	10,758.21	41.58	48.51	122.36	-2,588.27	109.03	2,049.95	1,964.99	84.96	24.130		
11,700.00	9,673.00	12,709.16	10,758.29	41.93	48.83	122.43	-2,623.13	113.61	2,038.55	1,952.90	85.65	23.800		
11,800.00	9,673.00	12,788.85	10,757.02	42.30	49.57	122.52	-2,702.32	122.42	2,028.75	1,942.02	86.73	23.391		
11,900.00	9,673.00	12,864.00	10,754.82	42.67	50.29	122.57	-2,777.12	129.28	2,019.89	1,932.09	87.81	23.004		
12,000.00	9,673.00	12,930.58	10,753.24	43.06	50.94	122.61	-2,843.47	134.48	2,012.47	1,923.65	88.82	22.657		
12,100.00	9,673.00	13,008.89	10,752.49	43.45	51.71	122.67	-2,921.61	139.66	2,006.71	1,916.75	89.96	22.308		
12,200.00	9,673.00	13,108.01	10,750.53	43.85	52.71	122.69	-3,020.56	145.10	2,001.40	1,910.08	91.33	21.915		
12,300.00	9,673.00	13,185.28	10,748.99	44.26	53.50	122.72	-3,097.71	149.21	1,996.31	1,903.81	92.50	21.582		
12,400.00	9,673.00	13,244.00	10,748.24	44.68	54.11	122.73	-3,156.39	151.25	1,993.09	1,899.60	93.49	21.319		
12,500.00	9,673.00	13,338.00	10,748.40	45.11	55.09	122.76	-3,250.35	153.93	1,991.16	1,896.30	94.86	20.991		
12,600.00	9,673.00	13,489.70	10,749.18	45.55	56.72	122.91	-3,401.77	162.79	1,986.35	1,889.51	96.85	20.511		
12,700.00	9,673.00	13,558.13	10,747.93	45.99	57.47	122.92	-3,470.14	165.29	1,982.67	1,884.68	97.99	20.233		
12,800.00	9,673.00	13,628.35	10,747.43	46.44	58.24	122.93	-3,540.33	167.03	1,980.57	1,881.41	99.16	19.974		
12,900.00	9,673.00	13,718.00	10,746.51	46.90	59.23	122.92	-3,629.97	168.19	1,979.32	1,878.75	100.57	19.681		
13,000.00	9,673.00	13,802.85	10,744.78	47.37	60.18	122.87	-3,714.80	168.09	1,978.72	1,876.76	101.96	19.408		
13,012.08	9,673.00	13,813.00	10,744.57	47.42	60.30	122.86	-3,724.95	168.00	1,978.71	1,876.59	102.12	19.376		
13,100.00	9,673.00	13,860.63	10,743.49	47.84	60.83	122.81	-3,772.55	166.94	1,979.61	1,876.61	103.00	19.219		
13,200.00	9,673.00	13,908.00	10,742.23	48.32	61.36	122.74	-3,819.85	164.63	1,982.83	1,878.92	103.90	19.084		
13,300.00	9,673.00	13,979.70	10,740.58	48.81	62.17	122.62	-3,891.35	159.58	1,988.00	1,882.86	105.14	18.908		
13,400.00	9,673.00	14,089.56	10,738.67	49.30	63.42	122.43	-4,000.83	150.72	1,994.29	1,887.34	106.95	18.647		
13,500.00	9,673.00	14,328.21	10,733.20	49.80	66.19	122.13	-4,239.16	141.30	1,997.27	1,886.70	110.57	18.063		
13,600.00	9,673.00	14,510.65	10,729.12	50.31	68.38	122.12	-4,421.41	147.75	1,993.11	1,879.87	113.25	17.600		
13,700.00	9,673.00	14,601.79	10,727.91	50.82	69.49	122.17	-4,512.38	153.32	1,987.64	1,872.85	114.79	17.315		
13,800.00	9,673.00	14,667.00	10,727.30	51.34	70.28	122.20	-4,577.51	156.50	1,983.43	1,867.40	116.03	17.094		
13,900.00	9,673.00	14,741.25	10,726.04	51.87	71.19	122.19	-4,651.72	158.44	1,980.73	1,863.34	117.40	16.872		
14,000.00	9,673.00	14,806.14	10,724.42	52.40	71.98	122.15	-4,716.58	158.59	1,979.62	1,860.98	118.64	16.685		
14,004.62	9,673.00	14,809.02	10,724.37	52.42	72.02	122.15	-4,719.47	158.58	1,979.61	1,860.92	118.70	16.678		
14,100.00	9,673.00	14,878.01	10,723.67	52.94	72.87	122.13	-4,788.44	157.77	1,980.51	1,860.54	119.97	16.508		
14,200.00	9,673.00	15,108.29	10,720.28	53.49	75.73	122.05	-5,018.52	162.50	1,986.79	1,863.26	123.53	16.084		
14,300.00	9,673.00	15,197.12	10,718.97	54.08	76.86	122.50	-5,107.20	167.44	2,003.01	1,877.69	125.32	15.983		
14,400.00	9,673.00	15,280.00	10,717.77	54.68	77.91	123.45	-5,189.97	171.54	2,032.31	1,905.16	127.14	15.984		
14,500.00	9,673.00	15,325.00	10,717.45	55.27	78.48	125.37	-5,234.92	173.69	2,074.42	1,945.89	128.53	16.139		
14,600.00	9,673.00	15,325.00	10,717.45	55.84	78.48	128.92	-5,234.92	173.69	2,130.31	2,001.04	129.26	16.481		
14,700.00	9,673.00	15,325.00	10,717.45	56.38	78.48	134.28	-5,234.92	173.69	2,198.27	2,068.36	129.90	16.922		
14,800.00	9,673.00	15,325.00	10,717.45	56.88	78.48	142.26	-5,234.92	173.69	2,275.74	2,145.26	130.48	17.441		
14,900.00	9,673.00	15,325.00	10,717.45	57.31	78.48	153.86	-5,234.92	173.69	2,360.11	2,229.09	131.02	18.014		
15,000.00	9,673.00	15,325.00	10,717.45	57.68	78.48	169.71	-5,234.92	173.69	2,448.82	2,317.29	131.53	18.619		
15,100.00	9,673.00	15,325.00	10,717.45	57.96	78.48	-171.68	-5,234.92	173.69	2,539.50	2,407.49	132.01	19.237		
15,200.00	9,673.00	15,325.00	10,717.45	58.17	78.48	-154.12	-5,234.92	173.69	2,629.96	2,497.49	132.48	19.852		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,300.00	9,673.00	15,325.00	10,717.45	58.28	78.48	-140.40	-5,234.92	173.69	2,718.26	2,585.34	132.92	20.450			
15,400.00	9,673.00	15,325.00	10,717.45	58.32	78.48	-130.64	-5,234.92	173.69	2,802.67	2,669.33	133.34	21.020			
15,500.00	9,673.00	15,325.00	10,717.45	58.28	78.48	-123.86	-5,234.92	173.69	2,881.66	2,747.95	133.71	21.551			
15,600.00	9,673.00	15,325.00	10,717.45	58.17	78.48	-119.11	-5,234.92	173.69	2,953.94	2,819.89	134.05	22.037			
15,700.00	9,673.00	15,325.00	10,717.45	58.00	78.48	-115.73	-5,234.92	173.69	3,018.38	2,884.05	134.32	22.471			
15,800.00	9,673.00	15,325.00	10,717.45	57.78	78.48	-113.31	-5,234.92	173.69	3,074.03	2,939.49	134.54	22.849			
15,900.00	9,673.00	15,272.55	10,717.83	57.54	77.81	-111.43	-5,182.53	171.18	3,119.64	2,985.72	133.92	23.295			
16,000.00	9,673.00	15,198.26	10,718.95	57.27	76.87	-110.18	-5,108.34	167.50	3,152.92	3,019.94	132.98	23.710			
16,100.00	9,673.00	15,117.16	10,720.16	56.99	75.85	-109.49	-5,027.38	163.02	3,173.05	3,041.11	131.95	24.048			
16,200.00	9,673.00	14,820.30	10,724.19	56.72	72.16	-109.37	-4,730.74	158.51	3,175.35	3,047.57	127.78	24.850			
16,229.26	9,673.00	14,804.61	10,724.45	56.65	71.97	-109.38	-4,715.06	158.60	3,175.30	3,047.68	127.63	24.880			
16,300.00	9,673.00	14,762.00	10,725.47	56.46	71.44	-109.39	-4,672.46	158.61	3,175.46	3,048.28	127.18	24.968			
16,400.00	9,673.00	14,714.35	10,726.63	56.21	70.86	-109.41	-4,624.83	157.98	3,177.02	3,050.29	126.73	25.070			
16,500.00	9,673.00	14,667.00	10,727.30	55.97	70.28	-109.42	-4,577.51	156.50	3,180.09	3,053.83	126.26	25.186			
16,600.00	9,673.00	14,606.53	10,727.87	55.73	69.54	-109.41	-4,517.11	153.59	3,184.59	3,058.99	125.61	25.354			
16,700.00	9,673.00	14,520.73	10,728.93	55.50	68.50	-109.40	-4,431.48	148.33	3,190.32	3,065.71	124.61	25.603			
16,800.00	9,673.00	14,003.00	10,740.20	55.28	62.43	-109.66	-3,914.57	157.66	3,186.84	3,069.33	117.51	27.120			
16,900.00	9,673.00	13,941.66	10,741.36	55.06	61.74	-109.71	-3,853.43	162.42	3,179.86	3,062.82	117.03	27.170			
17,000.00	9,673.00	13,908.00	10,742.23	54.86	61.36	-109.74	-3,819.85	164.63	3,174.49	3,057.53	116.96	27.142			
17,100.00	9,673.00	13,855.05	10,743.62	54.66	60.77	-109.78	-3,766.98	167.13	3,170.79	3,054.20	116.59	27.196			
17,200.00	9,673.00	13,813.00	10,744.57	54.47	60.30	-109.80	-3,724.95	168.00	3,169.10	3,052.74	116.36	27.234			
17,266.77	9,673.00	13,772.23	10,745.42	54.34	59.84	-109.82	-3,684.19	168.26	3,168.87	3,052.84	116.04	27.309			
17,300.00	9,673.00	13,749.29	10,745.88	54.28	59.58	-109.83	-3,661.25	168.29	3,168.93	3,053.09	115.84	27.357			
17,400.00	9,673.00	13,675.22	10,747.17	54.11	58.76	-109.85	-3,587.20	167.81	3,169.69	3,054.51	115.18	27.520			
17,500.00	9,673.00	13,602.21	10,747.47	53.94	57.95	-109.85	-3,514.21	166.45	3,171.19	3,056.66	114.54	27.687			
17,600.00	9,673.00	13,528.00	10,748.52	53.78	57.14	-109.85	-3,440.03	164.37	3,173.81	3,059.92	113.89	27.867			
17,700.00	9,673.00	13,489.41	10,749.18	53.63	56.72	-109.86	-3,401.48	162.78	3,177.69	3,064.00	113.68	27.952			
17,800.00	9,673.00	13,379.97	10,748.80	53.49	55.54	-109.81	-3,292.25	156.24	3,182.82	3,070.20	112.62	28.261			
17,900.00	9,673.00	13,244.00	10,748.24	53.35	54.11	-109.78	-3,156.39	151.25	3,185.37	3,074.08	111.29	28.622			
18,000.00	9,673.00	13,181.23	10,749.05	53.23	53.46	-109.78	-3,093.66	149.03	3,188.92	3,078.08	110.84	28.771			
18,100.00	9,673.00	13,113.69	10,750.41	53.11	52.77	-109.78	-3,026.23	145.41	3,194.12	3,083.77	110.34	28.948			
18,200.00	9,673.00	13,017.94	10,752.35	53.00	51.80	-109.79	-2,930.65	140.20	3,199.52	3,089.97	109.55	29.205			
18,300.00	9,673.00	12,959.00	10,752.97	52.91	51.21	-109.78	-2,871.83	136.48	3,205.55	3,096.38	109.16	29.364			
18,400.00	9,673.00	12,891.51	10,754.01	52.82	50.56	-109.76	-2,804.53	131.52	3,212.69	3,103.99	108.70	29.556			
18,500.00	9,673.00	12,831.14	10,755.86	52.74	49.98	-109.77	-2,744.40	126.42	3,221.22	3,112.91	108.31	29.740			
18,600.00	9,673.00	12,769.00	10,757.50	52.67	49.39	-109.76	-2,682.58	120.41	3,230.84	3,122.92	107.91	29.939			
18,700.00	9,673.00	12,707.78	10,758.29	52.62	48.82	-109.73	-2,621.76	113.43	3,241.62	3,134.09	107.53	30.147			
18,800.00	9,673.00	12,674.00	10,758.21	52.57	48.51	-109.71	-2,588.27	109.03	3,253.83	3,146.46	107.37	30.304			
18,900.00	9,673.00	12,105.00	10,756.05	52.54	43.81	-109.39	-2,023.92	59.81	3,267.80	3,165.07	102.73	31.811			
19,000.00	9,673.00	11,959.76	10,757.70	52.51	42.78	-109.44	-1,878.71	61.70	3,266.66	3,164.74	101.91	32.054			
19,100.00	9,673.00	11,729.22	10,757.72	52.50	41.29	-109.51	-1,648.46	72.58	3,260.97	3,160.42	100.55	32.431			
19,200.00	9,673.00	9,704.96	9,701.65	52.50	33.83	-90.59	-432.68	172.02	3,243.27	3,162.22	81.04	40.019			
19,300.00	9,673.00	9,701.07	9,697.76	52.51	33.82	-90.52	-432.53	172.05	3,203.92	3,122.42	81.49	39.315			
19,400.00	9,673.00	9,697.22	9,693.91	52.53	33.80	-90.44	-432.38	172.07	3,167.23	3,085.28	81.95	38.648			
19,500.00	9,673.00	9,694.00	9,690.69	52.57	33.79	-90.38	-432.26	172.09	3,133.30	3,050.88	82.42	38.017			
19,600.00	9,673.00	9,689.89	9,686.58	52.62	33.78	-90.30	-432.10	172.12	3,102.22	3,019.34	82.88	37.430			
19,700.00	9,673.00	9,686.30	9,683.00	52.68	33.77	-90.23	-431.96	172.14	3,074.08	2,990.73	83.35	36.884			
19,800.00	9,673.00	9,682.68	9,679.38	52.75	33.75	-90.16	-431.83	172.17	3,048.95	2,965.15	83.81	36.381			
19,900.00	9,673.00	9,679.03	9,675.74	52.84	33.74	-90.09	-431.69	172.19	3,026.92	2,942.66	84.26	35.923			
20,000.00	9,673.00	9,675.36	9,672.07	52.94	33.73	-90.02	-431.54	172.21	3,008.05	2,923.34	84.71	35.512			
20,100.00	9,673.00	9,671.66	9,668.37	53.06	33.71	-89.95	-431.40	172.24	2,992.39	2,907.25	85.14	35.148			
20,200.00	9,673.00	9,667.92	9,664.64	53.19	33.70	-89.88	-431.25	172.26	2,980.01	2,894.46	85.55	34.833			

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 11-14 - Riverbend 14 Fed 2H - ST01 - ST01 Svy

Survey Program:		143-MWD+HRGM, 10829-MWD+HRGM		Rule Assigned:		Offset Site Error:		0.00 usft					
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Offset Well Error:		0.00 usft	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning
Depth	Depth	Depth	Depth	(usft)	(usft)	Toolface	(usft)	(usft)	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)			(°)			(usft)	(usft)	(usft)		
20,300.00	9,673.00	9,664.16	9,660.88	53.33	33.69	-89.80	-431.11	172.28	2,970.94	2,884.99	85.95	34.566	
20,400.00	9,673.00	9,660.37	9,657.09	53.49	33.67	-89.73	-430.96	172.31	2,965.20	2,878.88	86.32	34.350	
20,500.00	9,673.00	9,656.54	9,653.27	53.66	33.66	-89.66	-430.81	172.33	2,962.83	2,876.16	86.67	34.183	
20,520.36	9,673.00	9,655.76	9,652.48	53.70	33.66	-89.64	-430.77	172.33	2,962.76	2,876.02	86.74	34.155	
20,600.00	9,673.00	9,652.69	9,649.41	53.84	33.65	-89.58	-430.65	172.35	2,963.83	2,876.83	87.00	34.067	
20,610.93	9,673.00	9,652.26	9,648.99	54.93	33.64	-89.57	-430.64	172.35	2,964.15	2,877.16	86.98	34.078	

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.71	89.28	58.03	4,636.72	4,637.36					
100.00	100.00	52.88	52.88	0.28	0.71	89.28	58.00	4,636.70	4,637.06	4,636.08	0.99	4,698.132		
200.00	200.00	183.68	183.68	0.63	0.83	89.28	57.90	4,636.02	4,636.51	4,635.04	1.46	3,167.222		
300.00	300.00	343.22	343.20	0.99	1.23	89.28	58.44	4,633.32	4,634.64	4,632.43	2.21	2,094.291		
400.00	400.00	442.82	442.77	1.35	1.53	89.27	59.02	4,631.29	4,632.62	4,629.75	2.87	1,614.409		
500.00	500.00	528.14	528.07	1.71	1.80	89.27	59.28	4,629.60	4,630.66	4,627.16	3.50	1,323.819		
600.00	599.98	600.00	599.92	2.05	2.03	-90.78	59.87	4,628.67	4,629.36	4,625.29	4.07	1,136.727		
700.00	699.84	665.72	665.64	2.39	2.25	-90.85	60.75	4,628.25	4,628.78	4,624.15	4.62	1,001.693		
745.62	745.33	700.00	699.91	2.54	2.36	-90.89	61.30	4,628.16	4,628.72	4,623.83	4.89	946.609		
800.00	799.49	756.63	756.53	2.73	2.55	-90.97	62.31	4,628.07	4,628.73	4,623.46	5.26	879.266		
900.00	899.11	865.29	865.17	3.07	2.91	-91.11	64.57	4,627.74	4,628.62	4,622.64	5.98	774.286		
1,000.00	998.73	988.86	988.70	3.42	3.34	-91.28	67.54	4,626.95	4,628.22	4,621.47	6.75	685.533		
1,100.00	1,098.36	1,139.71	1,139.47	3.77	3.86	-88.85	71.91	4,624.67	4,625.30	4,617.67	7.63	606.529		
1,200.00	1,197.92	1,265.23	1,264.93	4.12	4.29	-49.34	73.87	4,621.70	4,618.06	4,609.64	8.41	548.805		
1,300.00	1,297.29	1,376.51	1,376.18	4.48	4.68	-35.56	73.80	4,618.70	4,607.05	4,597.90	9.16	503.198		
1,400.00	1,396.36	1,495.38	1,494.99	4.84	5.09	-26.34	72.78	4,615.14	4,592.31	4,582.39	9.92	462.760		
1,500.00	1,495.00	1,597.76	1,597.30	5.20	5.44	-20.03	71.42	4,611.78	4,573.89	4,563.25	10.64	430.024		
1,600.00	1,593.09	1,700.00	1,699.47	5.56	5.80	-15.53	69.81	4,608.24	4,551.89	4,540.54	11.35	401.070		
1,700.00	1,690.51	1,779.98	1,779.39	5.92	6.08	-12.19	68.39	4,605.57	4,526.69	4,514.70	11.99	377.633		
1,800.00	1,787.29	1,843.02	1,842.39	6.28	6.30	-11.01	67.14	4,603.87	4,499.29	4,486.72	12.57	358.005		
1,900.00	1,883.98	1,900.00	1,899.35	6.65	6.50	-11.03	65.98	4,602.78	4,472.36	4,459.23	13.13	340.751		
2,000.00	1,980.68	1,962.34	1,961.68	7.02	6.72	-11.06	64.71	4,602.11	4,446.22	4,432.51	13.70	324.432		
2,100.00	2,077.38	2,028.09	2,027.41	7.39	6.94	-11.08	63.44	4,601.95	4,420.86	4,406.56	14.30	309.164		
2,200.00	2,174.08	2,100.00	2,099.31	7.77	7.19	-11.11	62.16	4,602.14	4,396.03	4,381.11	14.92	294.678		
2,300.00	2,270.78	2,159.74	2,159.04	8.15	7.40	-11.14	61.12	4,602.71	4,371.89	4,356.39	15.50	282.093		
2,400.00	2,367.48	2,200.00	2,199.29	8.53	7.53	-11.16	60.38	4,603.43	4,348.71	4,332.70	16.01	271.545		
2,500.00	2,464.17	2,272.94	2,272.19	8.92	7.78	-11.19	59.06	4,605.42	4,326.34	4,309.69	16.64	259.937		
2,600.00	2,560.87	2,332.97	2,332.16	9.30	7.99	-11.21	57.99	4,607.70	4,304.92	4,287.69	17.23	249.833		
2,700.00	2,657.57	2,400.00	2,399.10	9.69	8.23	-11.23	56.45	4,610.81	4,284.31	4,266.47	17.84	240.094		
2,800.00	2,754.27	2,580.65	2,579.58	10.08	8.86	-11.30	52.55	4,617.65	4,262.74	4,243.90	18.84	226.222		
2,900.00	2,850.97	2,734.47	2,733.35	10.47	9.40	-11.38	50.38	4,620.68	4,239.40	4,219.65	19.75	214.684		
3,000.00	2,947.66	2,830.37	2,829.23	10.86	9.73	-11.43	49.42	4,622.24	4,215.92	4,195.46	20.46	206.048		
3,100.00	3,044.36	2,930.68	2,929.53	11.25	10.08	-11.48	48.45	4,623.90	4,192.48	4,171.29	21.19	197.852		
3,200.00	3,141.06	3,047.89	3,046.72	11.64	10.49	-11.55	47.43	4,625.45	4,168.72	4,146.75	21.97	189.713		
3,300.00	3,237.76	3,152.70	3,151.52	12.03	10.85	-11.62	46.73	4,626.40	4,144.57	4,121.86	22.72	182.433		
3,400.00	3,334.46	3,247.61	3,246.42	12.43	11.18	-11.68	46.15	4,627.26	4,120.43	4,097.00	23.43	175.844		
3,500.00	3,431.16	3,349.89	3,348.69	12.82	11.54	-11.74	45.22	4,628.21	4,096.30	4,072.13	24.17	169.477		
3,600.00	3,527.85	3,467.44	3,466.24	13.21	11.95	-11.81	43.78	4,628.92	4,071.85	4,046.90	24.96	163.164		
3,700.00	3,624.55	3,572.65	3,571.44	13.61	12.31	-11.87	42.67	4,629.08	4,046.97	4,021.27	25.70	157.453		
3,800.00	3,721.25	3,669.51	3,668.30	14.00	12.65	-11.93	41.76	4,629.17	4,022.04	3,995.62	26.43	152.206		
3,900.00	3,817.95	3,772.55	3,771.33	14.40	13.01	-12.00	40.78	4,629.21	3,997.08	3,969.91	27.17	147.134		
4,000.00	3,914.65	3,872.28	3,871.06	14.79	13.36	-12.06	39.76	4,629.10	3,971.95	3,944.05	27.90	142.375		
4,100.00	4,011.35	3,975.31	3,974.08	15.19	13.72	-12.13	38.78	4,628.89	3,946.76	3,918.12	28.64	137.809		
4,200.00	4,108.04	4,077.07	4,075.83	15.59	14.07	-12.20	37.87	4,628.51	3,921.40	3,892.02	29.38	133.485		
4,300.00	4,204.74	4,179.85	4,178.61	15.98	14.43	-12.27	36.95	4,627.99	3,895.92	3,865.80	30.12	129.355		
4,400.00	4,301.44	4,284.97	4,283.72	16.38	14.80	-12.35	36.02	4,627.26	3,870.27	3,839.40	30.87	125.391		
4,500.00	4,398.14	4,381.24	4,379.98	16.78	15.13	-12.41	35.06	4,626.47	3,844.49	3,812.90	31.59	121.706		
4,600.00	4,494.84	4,478.66	4,477.40	17.17	15.47	-12.48	33.80	4,625.70	3,818.73	3,786.42	32.31	118.172		
4,700.00	4,591.53	4,576.59	4,575.31	17.57	15.81	-12.54	32.36	4,624.91	3,792.95	3,759.90	33.04	114.788		
4,800.00	4,688.23	4,670.93	4,669.63	17.97	16.14	-12.60	30.88	4,624.15	3,767.16	3,733.40	33.76	111.580		
4,900.00	4,784.93	4,760.93	4,759.62	18.37	16.46	-12.65	29.33	4,623.53	3,741.49	3,707.02	34.47	108.545		
5,000.00	4,881.63	4,855.41	4,854.07	18.77	16.79	-12.71	27.32	4,623.07	3,715.99	3,680.80	35.19	105.598		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	4,978.33	4,952.19	4,950.83	19.16	17.13	-12.76	24.98	4,622.59	3,690.46	3,654.54	35.92	102.751		
5,200.00	5,075.03	5,047.51	5,046.12	19.56	17.46	-12.81	22.60	4,622.15	3,664.97	3,628.33	36.64	100.028		
5,300.00	5,171.72	5,140.42	5,138.99	19.96	17.78	-12.85	20.20	4,621.77	3,639.53	3,602.17	37.36	97.426		
5,400.00	5,268.42	5,232.71	5,231.26	20.36	18.11	-12.91	18.19	4,621.52	3,614.24	3,576.17	38.07	94.930		
5,500.00	5,365.12	5,330.16	5,328.69	20.76	18.45	-12.96	16.10	4,621.27	3,588.97	3,550.17	38.80	92.494		
5,600.00	5,461.82	5,430.20	5,428.71	21.16	18.80	-13.02	13.97	4,620.99	3,563.70	3,524.16	39.54	90.133		
5,700.00	5,558.52	5,532.07	5,530.55	21.56	19.15	-13.08	11.72	4,620.49	3,538.20	3,497.93	40.28	87.844		
5,800.00	5,655.21	5,623.76	5,622.21	21.96	19.47	-13.14	9.59	4,620.14	3,512.81	3,471.81	40.99	85.690		
5,900.00	5,751.91	5,723.17	5,721.60	22.35	19.82	-13.20	7.25	4,619.73	3,487.40	3,445.67	41.73	83.573		
6,000.00	5,848.61	5,815.04	5,813.45	22.75	20.14	-13.25	5.13	4,619.37	3,462.01	3,419.56	42.45	81.563		
6,100.00	5,945.31	5,900.00	5,898.39	23.15	20.44	-13.31	3.50	4,619.32	3,436.95	3,393.81	43.15	79.657		
6,200.00	6,042.01	5,991.89	5,990.26	23.55	20.76	-13.38	1.94	4,619.46	3,412.14	3,368.28	43.86	77.788		
6,300.00	6,138.71	6,088.43	6,086.79	23.95	21.10	-13.45	0.30	4,619.61	3,387.33	3,342.74	44.59	75.961		
6,400.00	6,235.40	6,184.45	6,182.79	24.35	21.43	-13.52	-1.21	4,619.76	3,362.54	3,317.22	45.32	74.194		
6,500.00	6,332.10	6,281.18	6,279.51	24.75	21.77	-13.60	-2.73	4,619.92	3,337.77	3,291.72	46.05	72.480		
6,600.00	6,428.80	6,376.80	6,375.12	25.15	22.11	-13.67	-4.24	4,620.10	3,313.02	3,266.24	46.78	70.824		
6,700.00	6,525.50	6,507.28	6,505.59	25.55	22.56	-13.79	-5.67	4,619.78	3,287.92	3,240.34	47.58	69.102		
6,800.00	6,622.20	6,736.53	6,734.72	25.95	23.36	-14.06	-5.00	4,613.30	3,260.69	3,212.14	48.55	67.163		
6,900.00	6,718.89	6,824.16	6,822.22	26.35	23.67	-14.20	-3.58	4,608.67	3,231.00	3,181.74	49.26	65.591		
7,000.00	6,815.59	6,900.00	6,897.98	26.75	23.94	-14.32	-2.34	4,605.56	3,202.34	3,152.38	49.95	64.106		
7,100.00	6,912.29	6,956.60	6,954.55	27.15	24.13	-14.40	-1.39	4,603.76	3,174.47	3,123.85	50.62	62.717		
7,200.00	7,008.99	7,037.15	7,035.04	27.55	24.42	-14.53	0.27	4,601.38	3,147.08	3,095.76	51.32	61.326		
7,300.00	7,105.69	8,760.00	8,272.23	27.95	29.82	-0.73	-692.05	4,302.81	3,087.29	3,035.80	51.49	59.961		
7,400.00	7,202.39	8,760.00	8,272.23	28.35	29.82	-0.73	-692.05	4,302.81	3,026.76	2,974.38	52.38	57.783		
7,500.00	7,299.08	8,760.00	8,272.23	28.75	29.82	-0.73	-692.05	4,302.81	2,968.37	2,915.09	53.28	55.713		
7,600.00	7,395.78	8,760.00	8,272.23	29.15	29.82	-0.73	-692.05	4,302.81	2,912.25	2,858.07	54.18	53.753		
7,700.00	7,492.48	8,760.00	8,272.23	29.56	29.82	-0.73	-692.05	4,302.81	2,858.52	2,803.44	55.08	51.902		
7,800.00	7,589.18	8,760.00	8,272.23	29.96	29.82	-0.73	-692.05	4,302.81	2,807.32	2,751.36	55.97	50.162		
7,900.00	7,685.98	8,760.00	8,272.23	30.36	29.82	-0.72	-692.05	4,302.81	2,759.16	2,702.31	56.84	48.540		
8,000.00	7,783.18	8,770.44	8,272.89	30.75	29.89	-0.47	-702.33	4,301.15	2,715.27	2,657.49	57.78	46.997		
8,100.00	7,880.77	8,773.05	8,273.06	31.14	29.91	-0.41	-704.90	4,300.74	2,676.03	2,617.40	58.63	45.642		
8,200.00	7,978.73	8,775.73	8,273.23	31.53	29.93	-0.35	-707.55	4,300.33	2,641.64	2,582.19	59.45	44.432		
8,300.00	8,077.03	8,778.48	8,273.41	31.91	29.95	-0.28	-710.26	4,299.91	2,612.30	2,552.06	60.23	43.369		
8,400.00	8,175.63	8,781.31	8,273.60	32.28	29.97	-0.22	-713.05	4,299.48	2,588.18	2,527.22	60.96	42.455		
8,500.00	8,274.51	8,792.00	8,274.32	32.65	30.04	0.03	-723.60	4,297.89	2,569.47	2,507.78	61.69	41.653		
8,600.00	8,373.63	8,792.00	8,274.32	33.02	30.04	0.03	-723.60	4,297.89	2,556.22	2,493.95	62.27	41.051		
8,700.00	8,472.97	8,792.00	8,274.32	33.37	30.04	0.03	-723.60	4,297.89	2,548.58	2,485.80	62.78	40.598		
8,785.13	8,557.69	8,792.00	8,274.32	33.68	30.04	0.03	-723.60	4,297.89	2,546.52	2,483.38	63.15	40.328		
8,800.00	8,572.50	8,792.00	8,274.32	33.73	30.04	0.03	-723.60	4,297.89	2,546.58	2,483.38	63.20	40.291		
8,900.00	8,672.17	8,792.00	8,274.32	34.08	30.04	0.03	-723.60	4,297.89	2,550.26	2,486.71	63.55	40.128		
9,000.00	8,771.98	8,792.00	8,274.32	34.42	30.04	0.03	-723.60	4,297.89	2,559.58	2,495.76	63.82	40.107		
9,100.00	8,871.87	8,792.00	8,274.32	34.76	30.04	0.03	-723.60	4,297.89	2,574.48	2,510.47	64.01	40.223		
9,200.00	8,971.83	8,792.00	8,274.32	35.10	30.04	0.03	-723.60	4,297.89	2,594.85	2,530.74	64.11	40.472		
9,300.00	9,071.83	8,792.00	8,274.32	35.42	30.04	0.03	-723.60	4,297.89	2,620.58	2,556.43	64.14	40.855		
9,400.00	9,171.44	8,792.00	8,274.32	35.73	30.04	-78.30	-723.60	4,297.89	2,649.60	2,585.50	64.11	41.331		
9,500.00	9,268.29	8,792.00	8,274.32	36.04	30.04	-75.34	-723.60	4,297.89	2,678.72	2,614.69	64.03	41.837		
9,600.00	9,359.44	8,824.00	8,275.91	36.33	30.26	-71.91	-755.32	4,294.08	2,706.73	2,642.57	64.15	42.191		
9,700.00	9,442.11	8,824.00	8,275.91	36.59	30.26	-69.37	-755.32	4,294.08	2,732.72	2,668.67	64.05	42.666		
9,800.00	9,513.79	8,843.32	8,276.39	36.83	30.40	-66.88	-774.56	4,292.37	2,756.01	2,691.91	64.10	42.994		
9,900.00	9,572.31	8,943.14	8,276.62	37.05	31.14	-63.99	-873.95	4,283.17	2,774.72	2,709.93	64.79	42.828		
10,000.00	9,615.89	9,197.00	8,280.91	37.26	33.36	-60.94	-1,125.38	4,249.54	2,781.96	2,715.01	66.94	41.558		
10,100.00	9,643.92	9,260.00	8,283.77	37.46	33.97	-60.62	-1,187.70	4,240.78	2,780.89	2,713.30	67.58	41.147		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
10,200.00	9,662.03	9,309.68	8,285.47	37.67	34.46	-60.62	-1,236.97	4,234.62	2,776.64	2,708.48	68.16	40.739			
10,300.00	9,671.50	9,387.00	8,287.59	37.89	35.25	-60.75	-1,313.76	4,225.80	2,769.48	2,700.43	69.05	40.108			
10,400.00	9,673.00	9,451.00	8,289.21	38.11	35.92	-60.95	-1,377.37	4,218.95	2,759.25	2,689.38	69.87	39.491			
10,500.00	9,673.00	9,554.46	8,291.33	38.34	37.03	-60.88	-1,480.30	4,208.81	2,749.31	2,678.17	71.14	38.646			
10,600.00	9,673.00	9,727.81	8,296.39	38.58	39.01	-60.75	-1,652.25	4,187.47	2,736.11	2,662.88	73.23	37.365			
10,700.00	9,673.00	9,798.95	8,298.33	38.83	39.85	-60.69	-1,722.82	4,178.69	2,723.59	2,649.34	74.25	36.682			
10,800.00	9,673.00	9,876.11	8,300.02	39.10	40.78	-60.62	-1,799.44	4,169.69	2,711.95	2,636.58	75.37	35.983			
10,900.00	9,673.00	9,960.00	8,301.14	39.37	41.81	-60.54	-1,882.78	4,160.19	2,701.02	2,624.43	76.59	35.267			
11,000.00	9,673.00	10,033.72	8,301.41	39.65	42.73	-60.46	-1,956.05	4,152.06	2,690.84	2,613.12	77.72	34.624			
11,100.00	9,673.00	10,117.28	8,301.05	39.95	43.79	-60.35	-2,039.15	4,143.25	2,681.47	2,602.49	78.98	33.951			
11,200.00	9,673.00	10,336.31	8,300.39	40.25	46.65	-60.03	-2,256.34	4,115.21	2,670.03	2,588.18	81.85	32.622			
11,300.00	9,673.00	10,441.80	8,300.46	40.57	48.07	-59.85	-2,360.62	4,099.29	2,656.51	2,573.08	83.43	31.842			
11,400.00	9,673.00	10,532.00	8,302.95	40.90	49.30	-59.75	-2,449.88	4,086.61	2,642.60	2,557.72	84.87	31.135			
11,500.00	9,673.00	10,596.00	8,305.24	41.23	50.17	-59.71	-2,513.41	4,079.26	2,630.25	2,544.21	86.04	30.570			
11,600.00	9,673.00	10,596.00	8,305.24	41.58	50.17	-59.71	-2,513.41	4,079.26	2,620.03	2,533.61	86.42	30.318			
11,700.00	9,673.00	10,660.00	8,306.02	41.93	51.05	-59.67	-2,577.20	4,074.24	2,612.29	2,524.70	87.59	29.823			
11,800.00	9,673.00	10,689.06	8,305.74	42.30	51.44	-59.64	-2,606.22	4,072.61	2,606.93	2,518.61	88.32	29.517			
11,900.00	9,673.00	10,753.05	8,304.32	42.67	52.32	-59.58	-2,670.12	4,069.58	2,603.50	2,514.00	89.50	29.090			
12,000.00	9,673.00	10,996.19	8,302.81	43.06	55.72	-59.34	-2,912.52	4,051.72	2,595.96	2,502.94	93.02	27.907			
12,100.00	9,673.00	11,072.15	8,302.69	43.45	56.81	-59.26	-2,988.20	4,045.18	2,588.20	2,493.79	94.41	27.414			
12,200.00	9,673.00	11,262.48	8,302.00	43.85	59.55	-59.01	-3,177.43	4,025.02	2,578.78	2,481.55	97.24	26.521			
12,300.00	9,673.00	11,335.77	8,301.90	44.26	60.62	-58.90	-3,250.20	4,016.28	2,568.26	2,469.64	98.62	26.041			
12,400.00	9,673.00	11,463.67	8,301.10	44.68	62.50	-58.69	-3,377.12	4,000.55	2,557.61	2,456.93	100.68	25.403			
12,500.00	9,673.00	11,683.64	8,301.16	45.11	65.77	-58.30	-3,594.62	3,967.83	2,544.77	2,440.99	103.77	24.522			
12,600.00	9,673.00	11,742.00	8,303.31	45.55	66.64	-58.23	-3,652.24	3,958.86	2,529.56	2,424.50	105.07	24.076			
12,700.00	9,673.00	11,806.00	8,306.33	45.99	67.60	-58.19	-3,715.71	3,951.29	2,516.47	2,410.03	106.44	23.642			
12,800.00	9,673.00	11,825.06	8,307.07	46.44	67.88	-58.18	-3,734.69	3,949.59	2,505.55	2,398.30	107.25	23.361			
12,900.00	9,673.00	11,869.00	8,308.09	46.90	68.54	-58.16	-3,778.47	3,946.08	2,497.14	2,388.79	108.35	23.047			
13,000.00	9,673.00	11,933.00	8,308.42	47.37	69.50	-58.11	-3,842.31	3,941.56	2,490.49	2,380.80	109.69	22.704			
13,100.00	9,673.00	12,006.93	8,308.00	47.84	70.60	-58.04	-3,916.09	3,936.91	2,485.09	2,373.92	111.17	22.355			
13,200.00	9,673.00	12,094.93	8,306.93	48.32	71.92	-57.95	-4,003.94	3,932.01	2,480.61	2,367.78	112.83	21.985			
13,300.00	9,673.00	12,208.32	8,303.27	48.81	73.63	-57.78	-4,117.00	3,924.16	2,476.08	2,361.25	114.82	21.564			
13,400.00	9,673.00	12,460.29	8,301.27	49.30	77.47	-57.40	-4,367.49	3,898.25	2,466.35	2,347.80	118.55	20.805			
13,500.00	9,673.00	12,540.72	8,302.82	49.80	78.70	-57.32	-4,447.42	3,889.55	2,455.79	2,335.62	120.17	20.436			
13,600.00	9,673.00	12,631.00	8,303.33	50.31	80.09	-57.19	-4,537.15	3,879.54	2,445.76	2,323.87	121.90	20.064			
13,700.00	9,673.00	12,732.64	8,304.44	50.82	81.65	-57.07	-4,638.20	3,868.64	2,435.77	2,312.00	123.77	19.679			
13,800.00	9,673.00	12,793.37	8,305.20	51.34	82.59	-57.00	-4,698.62	3,862.61	2,426.46	2,301.30	125.16	19.387			
13,900.00	9,673.00	12,852.91	8,305.81	51.87	83.50	-56.95	-4,757.98	3,858.07	2,419.06	2,292.53	126.53	19.118			
14,000.00	9,673.00	12,927.94	8,305.47	52.40	84.66	-56.87	-4,832.82	3,852.69	2,412.91	2,284.83	128.08	18.839			
14,100.00	9,673.00	13,053.73	8,305.59	52.94	86.60	-56.69	-4,958.30	3,844.01	2,406.52	2,276.20	130.32	18.466			
14,200.00	9,673.00	13,139.00	8,306.56	53.49	87.92	-55.79	-5,043.37	3,838.21	2,391.54	2,259.59	131.95	18.124			
14,300.00	9,673.00	13,202.00	8,306.29	54.08	88.90	-54.15	-5,106.21	3,833.87	2,365.25	2,232.13	133.13	17.767			
14,400.00	9,673.00	13,280.92	8,305.00	54.68	90.12	-51.48	-5,184.97	3,828.96	2,328.56	2,194.22	134.34	17.334			
14,500.00	9,673.00	13,305.00	8,304.53	55.27	90.49	-48.34	-5,209.00	3,827.49	2,282.46	2,147.86	134.60	16.958			
14,600.00	9,673.00	13,305.00	8,304.53	55.84	90.49	-44.62	-5,209.00	3,827.49	2,229.72	2,095.46	134.26	16.608			
14,700.00	9,673.00	13,305.00	8,304.53	56.38	90.49	-39.98	-5,209.00	3,827.49	2,171.23	2,037.59	133.64	16.247			
14,800.00	9,673.00	13,305.00	8,304.53	56.88	90.49	-34.32	-5,209.00	3,827.49	2,107.92	1,975.15	132.77	15.877			
14,900.00	9,673.00	13,305.00	8,304.53	57.31	90.49	-27.59	-5,209.00	3,827.49	2,040.88	1,909.20	131.67	15.500			
15,000.00	9,673.00	13,305.00	8,304.53	57.68	90.49	-19.90	-5,209.00	3,827.49	1,971.33	1,840.95	130.38	15.120			
15,100.00	9,673.00	13,305.00	8,304.53	57.96	90.49	-11.56	-5,209.00	3,827.49	1,900.69	1,771.75	128.93	14.742			
15,200.00	9,673.00	13,305.00	8,304.53	58.17	90.49	-3.08	-5,209.00	3,827.49	1,830.54	1,703.16	127.38	14.370			
15,300.00	9,673.00	13,305.00	8,304.53	58.28	90.49	4.94	-5,209.00	3,827.49	1,762.67	1,636.88	125.79	14.013			

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning				
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)							
15,400.00	9,673.00	13,305.00	8,304.53	58.32	90.49	12.05	-5,209.00	3,827.49	1,698.97	1,574.77	124.20	13.680					
15,500.00	9,673.00	13,305.00	8,304.53	58.28	90.49	17.95	-5,209.00	3,827.49	1,641.49	1,518.81	122.68	13.381					
15,600.00	9,673.00	13,305.00	8,304.53	58.17	90.49	22.57	-5,209.00	3,827.49	1,592.28	1,471.00	121.27	13.130					
15,700.00	9,673.00	13,305.00	8,304.53	58.00	90.49	25.93	-5,209.00	3,827.49	1,553.30	1,433.28	120.03	12.941					
15,800.00	9,673.00	13,242.30	8,305.73	57.78	89.52	27.15	-5,146.43	3,831.33	1,524.87	1,406.50	118.37	12.882					
15,900.00	9,673.00	13,171.79	8,306.51	57.54	88.43	27.80	-5,076.07	3,835.89	1,505.02	1,387.96	117.05	12.858	SF				
16,000.00	9,673.00	13,096.01	8,306.26	57.27	87.26	28.05	-5,000.48	3,841.24	1,494.09	1,377.95	116.14	12.865					
16,100.00	9,673.00	12,977.11	8,304.85	56.99	85.42	27.95	-4,881.86	3,849.20	1,491.12	1,375.87	115.25	12.938					
16,139.26	9,673.00	12,927.04	8,305.48	56.89	84.65	27.98	-4,831.92	3,852.76	1,490.80	1,375.80	115.00	12.963	CC, ES				
16,200.00	9,673.00	12,885.00	8,305.82	56.72	84.00	28.06	-4,789.99	3,855.76	1,492.43	1,377.37	115.06	12.971					
16,300.00	9,673.00	12,806.17	8,305.36	56.46	82.78	28.25	-4,711.38	3,861.53	1,496.66	1,381.60	115.06	13.008					
16,400.00	9,673.00	12,727.18	8,304.36	56.21	81.57	28.50	-4,632.77	3,869.21	1,502.60	1,387.52	115.08	13.057					
16,500.00	9,673.00	12,615.26	8,303.33	55.97	79.84	28.91	-4,521.51	3,881.32	1,508.84	1,394.00	114.84	13.139					
16,600.00	9,673.00	12,530.36	8,302.68	55.73	78.54	29.22	-4,437.13	3,890.68	1,515.11	1,400.29	114.82	13.196					
16,700.00	9,673.00	12,452.26	8,301.03	55.50	77.34	29.48	-4,359.51	3,899.12	1,522.51	1,407.70	114.81	13.261					
16,800.00	9,673.00	12,236.09	8,302.09	55.28	74.05	30.27	-4,144.65	3,921.88	1,528.31	1,414.75	113.56	13.458					
16,900.00	9,673.00	12,140.58	8,305.68	55.06	72.61	30.58	-4,049.48	3,929.06	1,529.11	1,415.71	113.40	13.484					
17,000.00	9,673.00	12,060.00	8,307.48	54.86	71.40	30.79	-3,969.07	3,933.97	1,530.57	1,417.21	113.36	13.502					
17,100.00	9,673.00	11,970.64	8,308.28	54.66	70.06	30.98	-3,879.86	3,939.10	1,532.99	1,419.80	113.19	13.543					
17,200.00	9,673.00	11,894.16	8,308.33	54.47	68.92	31.16	-3,803.56	3,944.26	1,536.68	1,423.51	113.17	13.579					
17,300.00	9,673.00	11,834.45	8,307.37	54.28	68.02	31.29	-3,744.04	3,948.79	1,542.32	1,429.03	113.29	13.614					
17,400.00	9,673.00	11,780.97	8,305.20	54.11	67.23	31.42	-3,690.84	3,953.86	1,550.94	1,437.52	113.42	13.674					
17,500.00	9,673.00	11,698.99	8,301.57	53.94	66.00	31.72	-3,609.76	3,965.37	1,562.22	1,448.88	113.34	13.784					
17,600.00	9,673.00	11,548.72	8,300.78	53.78	63.76	32.47	-3,461.43	3,989.34	1,571.25	1,458.47	112.78	13.932					
17,700.00	9,673.00	11,435.88	8,301.16	53.63	62.09	32.95	-3,349.56	4,004.11	1,578.25	1,465.81	112.43	14.037					
17,800.00	9,673.00	11,320.27	8,302.00	53.49	60.40	33.41	-3,234.81	4,018.09	1,584.46	1,472.42	112.04	14.142					
17,900.00	9,673.00	11,240.66	8,301.92	53.35	59.23	33.70	-3,155.78	4,027.66	1,591.46	1,479.51	111.96	14.215					
18,000.00	9,673.00	11,089.49	8,302.55	53.23	57.05	34.22	-3,005.47	4,043.68	1,597.20	1,486.04	111.16	14.369					
18,100.00	9,673.00	11,005.94	8,302.85	53.11	55.86	34.44	-2,922.23	4,050.85	1,602.04	1,491.02	111.02	14.431					
18,200.00	9,673.00	10,925.87	8,302.19	53.00	54.73	34.66	-2,842.51	4,058.28	1,608.23	1,497.33	110.90	14.502					
18,300.00	9,673.00	10,729.94	8,304.92	52.91	52.00	35.10	-2,647.04	4,070.62	1,609.92	1,500.42	109.50	14.702					
18,400.00	9,673.00	10,660.00	8,306.02	52.82	51.05	35.24	-2,577.20	4,074.24	1,611.82	1,502.29	109.53	14.715					
18,500.00	9,673.00	10,620.24	8,305.80	52.74	50.50	35.32	-2,537.55	4,077.07	1,616.48	1,506.61	109.87	14.713					
18,600.00	9,673.00	10,571.04	8,304.44	52.67	49.83	35.44	-2,488.61	4,081.86	1,624.55	1,514.51	110.05	14.763					
18,700.00	9,673.00	10,493.86	8,301.57	52.62	48.78	35.67	-2,412.12	4,091.79	1,635.22	1,525.28	109.94	14.874					
18,800.00	9,673.00	10,366.25	8,300.45	52.57	47.05	36.21	-2,285.93	4,110.72	1,644.87	1,535.46	109.40	15.035					
18,900.00	9,673.00	10,257.17	8,300.06	52.54	45.60	36.66	-2,178.05	4,126.79	1,654.27	1,545.24	109.02	15.173					
19,000.00	9,673.00	10,111.80	8,301.09	52.51	43.72	37.17	-2,033.69	4,143.83	1,660.76	1,552.47	108.30	15.335					
19,100.00	9,673.00	10,023.00	8,301.41	52.50	42.60	37.45	-1,945.39	4,153.22	1,667.18	1,559.06	108.11	15.421					
19,200.00	9,673.00	9,945.22	8,301.00	52.50	41.63	37.68	-1,868.10	4,161.86	1,674.64	1,566.61	108.04	15.501					
19,300.00	9,673.00	9,860.21	8,299.73	52.51	40.59	37.93	-1,783.65	4,171.52	1,683.09	1,575.20	107.89	15.600					
19,400.00	9,673.00	9,777.29	8,297.76	52.53	39.59	38.16	-1,701.33	4,181.29	1,692.52	1,584.75	107.77	15.706					
19,500.00	9,673.00	9,693.62	8,295.43	52.57	38.61	38.41	-1,618.37	4,191.99	1,702.95	1,595.31	107.64	15.821					
19,600.00	9,673.00	9,549.29	8,291.21	52.62	36.98	38.79	-1,475.16	4,209.34	1,713.26	1,606.21	107.04	16.005					
19,700.00	9,673.00	9,451.00	8,289.21	52.68	35.92	39.01	-1,377.37	4,218.95	1,721.28	1,614.43	106.85	16.109					
19,800.00	9,673.00	9,369.42	8,287.13	52.75	35.07	39.20	-1,296.29	4,227.75	1,730.33	1,623.52	106.82	16.199					
19,900.00	9,673.00	9,291.45	8,284.89	52.84	34.28	39.40	-1,218.88	4,236.83	1,740.27	1,633.46	106.81	16.293					
20,000.00	9,673.00	9,227.68	8,282.41	52.94	33.65	39.56	-1,155.70	4,245.11	1,751.89	1,644.99	106.90	16.388					
20,100.00	9,673.00	9,147.77	8,278.36	53.06	32.90	39.79	-1,076.78	4,256.89	1,765.45	1,658.56	106.89	16.517					
20,200.00	9,673.00	8,923.67	8,276.76	53.19	30.99	40.48	-854.59	4,285.24	1,772.86	1,666.79	106.07	16.715					
20,300.00	9,673.00	8,837.96	8,276.28	53.33	30.36	40.67	-769.23	4,292.83	1,779.45	1,673.28	106.17	16.760					
20,400.00	9,673.00	8,809.20	8,275.32	53.49	30.16	40.72	-740.62	4,295.63	1,788.97	1,682.39	106.58	16.786					

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation Factor	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,500.00	9,673.00	8,776.80	8,273.30	53.66	29.94	40.79	-708.61	4,300.16	1,802.66	1,695.77	106.89	16.865	
20,600.00	9,673.00	8,729.00	8,270.28	53.84	29.61	40.93	-661.62	4,308.42	1,819.22	1,712.14	107.09	16.989	
20,610.93	9,673.00	8,729.00	8,270.28	54.93	29.61	40.93	-661.62	4,308.42	1,821.23	1,714.22	107.01	17.019	

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 14 Federal Com - (O) Hoss 2-11 W1AP Fed Com #2H - OH - OH

Survey Program:		156-MWD OWSG Rev5		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	Offset Site Error:	0.00 usft
Reference	Offset	Reference	Offset	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)										
0.00	0.00	19,907.00	9,811.90	0.00	171.86	87.41	56.23	1,242.02	9,868.53						
100.00	100.00	19,907.00	9,811.90	0.28	171.86	87.41	56.23	1,242.02	9,769.33	9,674.27	95.06	102.772			
200.00	200.00	19,907.00	9,811.90	0.63	171.86	87.41	56.23	1,242.02	9,670.15	9,575.01	95.14	101.639			
300.00	300.00	19,907.00	9,811.90	0.99	171.86	87.41	56.23	1,242.02	9,570.99	9,475.76	95.23	100.500			
400.00	400.00	19,907.00	9,811.90	1.35	171.86	87.41	56.23	1,242.02	9,471.85	9,376.51	95.33	99.354			
500.00	500.00	19,907.00	9,811.90	1.71	171.86	87.41	56.23	1,242.02	9,372.72	9,277.28	95.44	98.203			
600.00	599.98	19,907.00	9,811.90	2.05	171.86	-106.96	56.23	1,242.02	9,273.65	9,178.09	95.56	97.050			
700.00	699.84	19,907.00	9,811.90	2.39	171.86	-119.31	56.23	1,242.02	9,174.74	9,079.07	95.67	95.900			
800.00	799.49	19,907.00	9,811.90	2.73	171.86	-124.54	56.23	1,242.02	9,076.07	8,980.29	95.79	94.754			
900.00	899.11	19,907.00	9,811.90	3.07	171.86	-124.54	56.23	1,242.02	8,977.48	8,881.56	95.91	93.599			
1,000.00	998.73	19,907.00	9,811.90	3.42	171.86	-124.54	56.23	1,242.02	8,878.91	8,782.86	96.05	92.439			
1,100.00	1,098.36	19,907.00	9,811.90	3.77	171.86	-107.61	56.23	1,242.02	8,780.13	8,683.95	96.19	91.280			
1,200.00	1,197.92	19,907.00	9,811.90	4.12	171.86	-96.73	56.23	1,242.02	8,680.95	8,584.64	96.31	90.134			
1,300.00	1,297.29	19,907.00	9,811.90	4.48	171.86	-96.81	56.23	1,242.02	8,581.47	8,485.06	96.41	89.008			
1,400.00	1,396.36	19,907.00	9,811.90	4.84	171.86	-109.06	56.23	1,242.02	8,481.81	8,385.33	96.49	87.905			
1,500.00	1,495.00	19,907.00	9,811.90	5.20	171.86	-129.39	56.23	1,242.02	8,382.09	8,285.55	96.54	86.825			
1,600.00	1,593.09	19,907.00	9,811.90	5.56	171.86	-147.53	56.23	1,242.02	8,282.42	8,185.85	96.57	85.768			
1,700.00	1,690.51	19,907.00	9,811.90	5.92	171.86	-159.11	56.23	1,242.02	8,182.93	8,086.36	96.57	84.738			
1,800.00	1,787.29	19,907.00	9,811.90	6.28	171.86	-162.49	56.23	1,242.02	8,083.70	7,987.15	96.55	83.727			
1,900.00	1,883.98	19,907.00	9,811.90	6.65	171.86	-162.49	56.23	1,242.02	7,984.51	7,887.98	96.53	82.714			
2,000.00	1,980.68	19,907.00	9,811.90	7.02	171.86	-162.49	56.23	1,242.02	7,885.35	7,788.83	96.52	81.698			
2,100.00	2,077.38	19,907.00	9,811.90	7.39	171.86	-162.49	56.23	1,242.02	7,786.20	7,689.70	96.51	80.680			
2,200.00	2,174.08	19,907.00	9,811.90	7.77	171.86	-162.49	56.23	1,242.02	7,687.08	7,590.58	96.50	79.660			
2,300.00	2,270.78	19,907.00	9,811.90	8.15	171.86	-162.49	56.23	1,242.02	7,587.98	7,491.49	96.49	78.639			
2,400.00	2,367.48	19,907.00	9,811.90	8.53	171.86	-162.49	56.23	1,242.02	7,488.91	7,392.42	96.49	77.616			
2,500.00	2,464.17	19,907.00	9,811.90	8.92	171.86	-162.49	56.23	1,242.02	7,389.86	7,293.38	96.48	76.592			
2,600.00	2,560.87	19,907.00	9,811.90	9.30	171.86	-162.49	56.23	1,242.02	7,290.84	7,194.36	96.48	75.568			
2,700.00	2,657.57	19,907.00	9,811.90	9.69	171.86	-162.49	56.23	1,242.02	7,191.84	7,095.36	96.48	74.542			
2,800.00	2,754.27	19,907.00	9,811.90	10.08	171.86	-162.49	56.23	1,242.02	7,092.87	6,996.39	96.48	73.516			
2,900.00	2,850.97	19,907.00	9,811.90	10.47	171.86	-162.49	56.23	1,242.02	6,993.93	6,897.45	96.48	72.489			
3,000.00	2,947.66	19,907.00	9,811.90	10.86	171.86	-162.49	56.23	1,242.02	6,895.02	6,798.54	96.49	71.461			
3,100.00	3,044.36	19,907.00	9,811.90	11.25	171.86	-162.49	56.23	1,242.02	6,796.15	6,699.66	96.49	70.434			
3,200.00	3,141.06	19,907.00	9,811.90	11.64	171.86	-162.49	56.23	1,242.02	6,697.31	6,600.81	96.49	69.406			
3,300.00	3,237.76	19,907.00	9,811.90	12.03	171.86	-162.49	56.23	1,242.02	6,598.50	6,502.00	96.50	68.378			
3,400.00	3,334.46	19,907.00	9,811.90	12.43	171.86	-162.49	56.23	1,242.02	6,499.73	6,403.22	96.51	67.350			
3,500.00	3,431.16	19,907.00	9,811.90	12.82	171.86	-162.49	56.23	1,242.02	6,400.99	6,304.48	96.51	66.322			
3,600.00	3,527.85	19,907.00	9,811.90	13.21	171.86	-162.49	56.23	1,242.02	6,302.30	6,205.78	96.52	65.295			
3,700.00	3,624.55	19,907.00	9,811.90	13.61	171.86	-162.49	56.23	1,242.02	6,203.65	6,107.12	96.53	64.267			
3,800.00	3,721.25	19,907.00	9,811.90	14.00	171.86	-162.49	56.23	1,242.02	6,105.04	6,008.50	96.54	63.240			
3,900.00	3,817.95	19,907.00	9,811.90	14.40	171.86	-162.49	56.23	1,242.02	6,006.48	5,909.93	96.55	62.214			
4,000.00	3,914.65	19,907.00	9,811.90	14.79	171.86	-162.49	56.23	1,242.02	5,907.96	5,811.41	96.55	61.188			
4,100.00	4,011.35	19,907.00	9,811.90	15.19	171.86	-162.49	56.23	1,242.02	5,809.50	5,712.94	96.56	60.162			
4,200.00	4,108.04	19,907.00	9,811.90	15.59	171.86	-162.49	56.23	1,242.02	5,711.09	5,614.52	96.57	59.137			
4,300.00	4,204.74	19,907.00	9,811.90	15.98	171.86	-162.49	56.23	1,242.02	5,612.74	5,516.16	96.58	58.113			
4,400.00	4,301.44	19,907.00	9,811.90	16.38	171.86	-162.49	56.23	1,242.02	5,514.44	5,417.85	96.59	57.089			
4,500.00	4,398.14	19,907.00	9,811.90	16.78	171.86	-162.49	56.23	1,242.02	5,416.21	5,319.61	96.60	56.067			
4,600.00	4,494.84	19,907.00	9,811.90	17.17	171.86	-162.49	56.23	1,242.02	5,318.05	5,221.43	96.61	55.045			
4,700.00	4,591.53	19,907.00	9,811.90	17.57	171.86	-162.49	56.23	1,242.02	5,219.95	5,123.33	96.62	54.023			
4,800.00	4,688.23	19,907.00	9,811.90	17.97	171.86	-162.49	56.23	1,242.02	5,121.93	5,025.30	96.63	53.003			
4,900.00	4,784.93	19,907.00	9,811.90	18.37	171.86	-162.49	56.23	1,242.02	5,023.99	4,927.34	96.65	51.984			
5,000.00	4,881.63	19,907.00	9,811.90	18.77	171.86	-162.49	56.23	1,242.02	4,926.12	4,829.47	96.66	50.965			
5,100.00	4,978.33	19,907.00	9,811.90	19.16	171.86	-162.49	56.23	1,242.02	4,828.35	4,731.68	96.67	49.947			

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 14 Federal Com - (O) Hoss 2-11 W1AP Fed Com #2H - OH - OH **Offset Site Error:** 0.00 usft

Survey Program:		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,200.00	5,075.03	19,907.00	9,811.90	19.56	171.86	-162.49	56.23	1,242.02	4,730.67	4,633.99	96.68	48.930			
5,300.00	5,171.72	19,907.00	9,811.90	19.96	171.86	-162.49	56.23	1,242.02	4,633.09	4,536.39	96.70	47.914			
5,400.00	5,268.42	19,907.00	9,811.90	20.36	171.86	-162.49	56.23	1,242.02	4,535.61	4,438.90	96.71	46.899			
5,500.00	5,365.12	19,907.00	9,811.90	20.76	171.86	-162.49	56.23	1,242.02	4,438.25	4,341.52	96.73	45.885			
5,600.00	5,461.82	19,907.00	9,811.90	21.16	171.86	-162.49	56.23	1,242.02	4,341.00	4,244.26	96.74	44.871			
5,700.00	5,558.52	19,907.00	9,811.90	21.56	171.86	-162.49	56.23	1,242.02	4,243.89	4,147.12	96.76	43.858			
5,800.00	5,655.21	19,907.00	9,811.90	21.96	171.86	-162.49	56.23	1,242.02	4,146.91	4,050.12	96.79	42.846			
5,900.00	5,751.91	19,907.00	9,811.90	22.35	171.86	-162.49	56.23	1,242.02	4,050.07	3,953.26	96.81	41.834			
6,000.00	5,848.61	19,907.00	9,811.90	22.75	171.86	-162.49	56.23	1,242.02	3,953.40	3,856.56	96.84	40.822			
6,100.00	5,945.31	19,907.00	9,811.90	23.15	171.86	-162.49	56.23	1,242.02	3,856.90	3,760.02	96.88	39.811			
6,200.00	6,042.01	19,907.00	9,811.90	23.55	171.86	-162.49	56.23	1,242.02	3,760.57	3,663.65	96.92	38.800			
6,300.00	6,138.71	19,907.00	9,811.90	23.95	171.86	-162.49	56.23	1,242.02	3,664.45	3,567.48	96.97	37.789			
6,400.00	6,235.40	19,907.00	9,811.90	24.35	171.86	-162.49	56.23	1,242.02	3,568.53	3,471.50	97.03	36.778			
6,500.00	6,332.10	19,907.00	9,811.90	24.75	171.86	-162.49	56.23	1,242.02	3,472.85	3,375.75	97.10	35.766			
6,600.00	6,428.80	19,907.00	9,811.90	25.15	171.86	-162.49	56.23	1,242.02	3,377.42	3,280.24	97.18	34.753			
6,700.00	6,525.50	19,907.00	9,811.90	25.55	171.86	-162.49	56.23	1,242.02	3,282.26	3,184.98	97.28	33.739			
6,800.00	6,622.20	19,907.00	9,811.90	25.95	171.86	-162.49	56.23	1,242.02	3,187.40	3,090.00	97.40	32.724			
6,900.00	6,718.89	19,907.00	9,811.90	26.35	171.86	-162.49	56.23	1,242.02	3,092.86	2,995.31	97.54	31.707			
7,000.00	6,815.59	19,907.00	9,811.90	26.75	171.86	-162.49	56.23	1,242.02	2,998.67	2,900.96	97.72	30.688			
7,100.00	6,912.29	19,907.00	9,811.90	27.15	171.86	-162.49	56.23	1,242.02	2,904.88	2,806.96	97.92	29.666			
7,200.00	7,008.99	19,907.00	9,811.90	27.55	171.86	-162.49	56.23	1,242.02	2,811.51	2,713.34	98.16	28.641			
7,300.00	7,105.69	19,907.00	9,811.90	27.95	171.86	-162.49	56.23	1,242.02	2,718.61	2,620.15	98.46	27.612			
7,400.00	7,202.39	19,907.00	9,811.90	28.35	171.86	-162.49	56.23	1,242.02	2,626.24	2,527.43	98.81	26.579			
7,500.00	7,299.08	19,907.00	9,811.90	28.75	171.86	-162.49	56.23	1,242.02	2,534.44	2,435.21	99.23	25.541			
7,600.00	7,395.78	19,907.00	9,811.90	29.15	171.86	-162.49	56.23	1,242.02	2,443.29	2,343.55	99.74	24.497			
7,700.00	7,492.48	19,907.00	9,811.90	29.56	171.86	-162.49	56.23	1,242.02	2,352.85	2,252.51	100.34	23.448			
7,800.00	7,589.18	19,907.00	9,811.90	29.96	171.86	-162.49	56.23	1,242.02	2,263.22	2,162.15	101.07	22.392			
7,900.00	7,685.98	19,907.00	9,811.90	30.36	171.86	-162.09	56.23	1,242.02	2,174.32	2,072.38	101.94	21.329			
8,000.00	7,783.18	19,907.00	9,811.90	30.75	171.86	-161.49	56.23	1,242.02	2,085.67	1,982.72	102.95	20.260			
8,100.00	7,880.77	19,907.00	9,811.90	31.14	171.86	-160.88	56.23	1,242.02	1,997.29	1,893.18	104.10	19.186			
8,200.00	7,978.73	19,907.00	9,811.90	31.53	171.86	-160.27	56.23	1,242.02	1,909.24	1,803.80	105.43	18.109			
8,300.00	8,077.03	19,907.00	9,811.90	31.91	171.86	-159.64	56.23	1,242.02	1,821.60	1,714.65	106.95	17.032			
8,400.00	8,175.63	19,907.00	9,811.90	32.28	171.86	-159.02	56.23	1,242.02	1,734.46	1,625.77	108.69	15.958			
8,500.00	8,274.51	19,907.00	9,811.90	32.65	171.86	-158.39	56.23	1,242.02	1,647.93	1,537.26	110.68	14.890			
8,600.00	8,373.63	19,907.00	9,811.90	33.02	171.86	-157.77	56.23	1,242.02	1,562.15	1,449.20	112.94	13.831			
8,700.00	8,472.97	19,907.00	9,811.90	33.37	171.86	-157.15	56.23	1,242.02	1,477.26	1,361.73	115.54	12.786			
8,800.00	8,572.50	19,907.00	9,811.90	33.73	171.86	-156.55	56.23	1,242.02	1,393.46	1,274.97	118.50	11.759			
8,900.00	8,672.17	19,907.00	9,811.90	34.08	171.86	-155.96	56.23	1,242.02	1,311.00	1,189.12	121.88	10.757			
9,000.00	8,771.98	19,907.00	9,811.90	34.42	171.86	-155.39	56.23	1,242.02	1,230.15	1,104.41	125.74	9.783			
9,100.00	8,871.87	19,907.00	9,811.90	34.76	171.86	-154.85	56.23	1,242.02	1,151.29	1,021.16	130.13	8.847			
9,200.00	8,971.83	19,907.00	9,811.90	35.10	171.86	-154.35	56.23	1,242.02	1,074.89	939.78	135.11	7.955			
9,300.00	9,071.83	19,907.00	9,811.90	35.42	171.86	-153.87	56.23	1,242.02	1,001.53	860.82	140.72	7.117			
9,400.00	9,171.44	19,907.00	9,811.90	35.73	171.86	131.30	56.23	1,242.02	935.86	789.11	146.74	6.378			
9,500.00	9,268.29	19,907.00	9,811.90	36.04	171.86	135.45	56.23	1,242.02	886.53	734.13	152.40	5.817			
9,600.00	9,359.44	19,907.00	9,811.90	36.33	171.86	137.51	56.23	1,242.02	858.02	701.35	156.68	5.476			
9,669.21	9,417.72	19,907.00	9,811.90	36.51	171.86	137.91	56.23	1,242.02	852.14	693.85	158.28	5.384	CC, ES		
9,700.00	9,442.11	19,907.00	9,811.90	36.59	171.86	137.83	56.23	1,242.02	853.31	694.73	158.58	5.381	SF		
9,800.00	9,513.79	19,907.00	9,811.90	36.83	171.86	136.46	56.23	1,242.02	872.91	715.23	157.67	5.536			
9,900.00	9,572.31	19,907.00	9,811.90	37.05	171.86	133.18	56.23	1,242.02	914.70	760.38	154.32	5.927			
10,000.00	9,615.89	19,907.00	9,811.90	37.26	171.86	127.42	56.23	1,242.02	974.68	825.32	149.36	6.526			
10,100.00	9,643.92	19,907.00	9,811.90	37.46	171.86	120.48	56.23	1,242.02	1,047.85	904.17	143.68	7.293			
10,200.00	9,662.03	19,907.00	9,811.90	37.67	171.86	114.46	56.23	1,242.02	1,128.29	990.18	138.11	8.170			

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 14 Federal Com - (O) Hoss 2-11 W1AP Fed Com #2H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 156-MWD OWSG Rev5											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,300.00	9,671.50	19,907.00	9,811.90	37.89	171.86	106.83	56.23	1,242.02	1,213.52	1,080.63	132.89	9.132		
10,400.00	9,673.00	19,907.00	9,811.90	38.11	171.86	101.57	56.23	1,242.02	1,301.94	1,173.84	128.10	10.163		
10,500.00	9,673.00	19,907.00	9,811.90	38.34	171.86	101.57	56.23	1,242.02	1,392.08	1,268.24	123.84	11.241		
10,600.00	9,673.00	19,907.00	9,811.90	38.58	171.86	101.57	56.23	1,242.02	1,483.49	1,363.42	120.07	12.356		
10,700.00	9,673.00	19,907.00	9,811.90	38.83	171.86	101.57	56.23	1,242.02	1,575.93	1,459.23	116.71	13.503		
10,800.00	9,673.00	19,907.00	9,811.90	39.10	171.86	101.57	56.23	1,242.02	1,669.25	1,555.54	113.71	14.679		
10,900.00	9,673.00	19,907.00	9,811.90	39.37	171.86	101.57	56.23	1,242.02	1,763.31	1,652.27	111.03	15.881		
11,000.00	9,673.00	19,907.00	9,811.90	39.65	171.86	101.57	56.23	1,242.02	1,857.98	1,749.36	108.62	17.105		
11,100.00	9,673.00	19,907.00	9,811.90	39.95	171.86	101.57	56.23	1,242.02	1,953.18	1,846.73	106.45	18.348		
11,200.00	9,673.00	19,907.00	9,811.90	40.25	171.86	101.57	56.23	1,242.02	2,048.85	1,944.36	104.49	19.609		
11,300.00	9,673.00	19,907.00	9,811.90	40.57	171.86	101.57	56.23	1,242.02	2,144.90	2,042.20	102.71	20.884		
11,400.00	9,673.00	19,907.00	9,811.90	40.90	171.86	101.57	56.23	1,242.02	2,241.30	2,140.22	101.08	22.173		
11,500.00	9,673.00	19,907.00	9,811.90	41.23	171.86	101.57	56.23	1,242.02	2,338.01	2,238.41	99.60	23.473		
11,600.00	9,673.00	19,907.00	9,811.90	41.58	171.86	101.57	56.23	1,242.02	2,434.98	2,336.73	98.25	24.784		
11,700.00	9,673.00	19,907.00	9,811.90	41.93	171.86	101.57	56.23	1,242.02	2,532.19	2,435.18	97.01	26.103		
11,800.00	9,673.00	19,907.00	9,811.90	42.30	171.86	101.57	56.23	1,242.02	2,629.60	2,533.74	95.86	27.431		
11,900.00	9,673.00	19,907.00	9,811.90	42.67	171.86	101.57	56.23	1,242.02	2,727.20	2,632.39	94.81	28.765		
12,000.00	9,673.00	19,907.00	9,811.90	43.06	171.86	101.57	56.23	1,242.02	2,824.97	2,731.14	93.84	30.105		
12,100.00	9,673.00	19,907.00	9,811.90	43.45	171.86	101.57	56.23	1,242.02	2,922.90	2,829.96	92.94	31.450		
12,200.00	9,673.00	19,907.00	9,811.90	43.85	171.86	101.57	56.23	1,242.02	3,020.95	2,928.85	92.10	32.800		
12,300.00	9,673.00	19,907.00	9,811.90	44.26	171.86	101.57	56.23	1,242.02	3,119.13	3,027.81	91.33	34.153		
12,400.00	9,673.00	19,907.00	9,811.90	44.68	171.86	101.57	56.23	1,242.02	3,217.43	3,126.82	90.61	35.510		
12,500.00	9,673.00	19,907.00	9,811.90	45.11	171.86	101.57	56.23	1,242.02	3,315.82	3,225.89	89.94	36.869		
12,600.00	9,673.00	19,907.00	9,811.90	45.55	171.86	101.57	56.23	1,242.02	3,414.31	3,325.00	89.31	38.230		
12,700.00	9,673.00	19,907.00	9,811.90	45.99	171.86	101.57	56.23	1,242.02	3,512.88	3,424.16	88.72	39.593		
12,800.00	9,673.00	19,907.00	9,811.90	46.44	171.86	101.57	56.23	1,242.02	3,611.54	3,523.36	88.18	40.958		
12,900.00	9,673.00	19,907.00	9,811.90	46.90	171.86	101.57	56.23	1,242.02	3,710.26	3,622.60	87.66	42.324		
13,000.00	9,673.00	19,907.00	9,811.90	47.37	171.86	101.57	56.23	1,242.02	3,809.05	3,721.87	87.18	43.690		
13,100.00	9,673.00	19,907.00	9,811.90	47.84	171.86	101.57	56.23	1,242.02	3,907.90	3,821.17	86.73	45.057		
13,200.00	9,673.00	19,907.00	9,811.90	48.32	171.86	101.57	56.23	1,242.02	4,006.81	3,920.50	86.31	46.424		
13,300.00	9,673.00	19,907.00	9,811.90	48.81	171.86	101.57	56.23	1,242.02	4,105.78	4,019.86	85.91	47.791		
13,400.00	9,673.00	19,907.00	9,811.90	49.30	171.86	101.57	56.23	1,242.02	4,204.79	4,119.25	85.54	49.157		
13,500.00	9,673.00	19,907.00	9,811.90	49.80	171.86	101.57	56.23	1,242.02	4,303.84	4,218.66	85.18	50.524		
13,600.00	9,673.00	19,907.00	9,811.90	50.31	171.86	101.57	56.23	1,242.02	4,402.94	4,318.09	84.85	51.889		
13,700.00	9,673.00	19,907.00	9,811.90	50.82	171.86	101.57	56.23	1,242.02	4,502.08	4,417.54	84.54	53.254		
13,800.00	9,673.00	19,907.00	9,811.90	51.34	171.86	101.57	56.23	1,242.02	4,601.26	4,517.01	84.25	54.617		
13,900.00	9,673.00	19,907.00	9,811.90	51.87	171.86	101.57	56.23	1,242.02	4,700.47	4,616.50	83.97	55.979		
14,000.00	9,673.00	19,907.00	9,811.90	52.40	171.86	101.57	56.23	1,242.02	4,799.72	4,716.01	83.71	57.340		
14,100.00	9,673.00	19,907.00	9,811.90	52.94	171.86	104.55	56.23	1,242.02	4,899.01	4,815.55	83.46	58.696		
14,200.00	9,673.00	19,907.00	9,811.90	53.49	171.86	-111.34	56.23	1,242.02	4,998.88	4,915.40	83.48	59.881		
14,300.00	9,673.00	19,907.00	9,811.90	54.08	171.86	-96.31	56.23	1,242.02	5,097.85	5,013.98	83.87	60.784		
14,400.00	9,673.00	19,907.00	9,811.90	54.68	171.86	-93.70	56.23	1,242.02	5,193.79	5,109.18	84.61	61.387		
14,500.00	9,673.00	19,907.00	9,811.90	55.27	171.86	-92.65	56.23	1,242.02	5,284.69	5,199.02	85.67	61.684		
14,600.00	9,673.00	19,907.00	9,811.90	55.84	171.86	-92.09	56.23	1,242.02	5,368.80	5,281.75	87.05	61.676		
14,700.00	9,673.00	19,907.00	9,811.90	56.38	171.86	-91.75	56.23	1,242.02	5,444.53	5,355.82	88.71	61.376		
14,800.00	9,673.00	19,907.00	9,811.90	56.88	171.86	-91.53	56.23	1,242.02	5,510.51	5,419.89	90.62	60.808		
14,900.00	9,673.00	19,907.00	9,811.90	57.31	171.86	-91.38	56.23	1,242.02	5,565.62	5,472.86	92.76	59.999		
15,000.00	9,673.00	19,907.00	9,811.90	57.68	171.86	-91.29	56.23	1,242.02	5,608.91	5,513.82	95.09	58.984		
15,100.00	9,673.00	19,907.00	9,811.90	57.96	171.86	-91.22	56.23	1,242.02	5,639.69	5,542.11	97.57	57.799		
15,200.00	9,673.00	19,907.00	9,811.90	58.17	171.86	-91.19	56.23	1,242.02	5,657.43	5,557.27	100.16	56.484		
15,300.00	9,673.00	19,907.00	9,811.90	58.28	171.86	-91.18	56.23	1,242.02	5,661.88	5,559.07	102.81	55.073		
15,400.00	9,673.00	19,907.00	9,811.90	58.32	171.86	-91.20	56.23	1,242.02	5,652.94	5,547.48	105.46	53.602		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 14 Federal Com - (O) Hoss 2-11 W1AP Fed Com #2H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 156-MWD OWSG Rev5										Rule Assigned:		Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,500.00	9,673.00	19,907.00	9,811.90	58.28	171.86	-91.24	56.23	1,242.02	5,630.77	5,522.70	108.07	52.101		
15,600.00	9,673.00	19,907.00	9,811.90	58.17	171.86	-91.31	56.23	1,242.02	5,595.73	5,485.13	110.59	50.598		
15,700.00	9,673.00	19,907.00	9,811.90	58.00	171.86	-91.43	56.23	1,242.02	5,548.37	5,435.41	112.96	49.117		
15,800.00	9,673.00	19,907.00	9,811.90	57.78	171.86	-91.59	56.23	1,242.02	5,489.49	5,374.35	115.14	47.677		
15,900.00	9,673.00	19,907.00	9,811.90	57.54	171.86	-91.85	56.23	1,242.02	5,420.09	5,303.01	117.08	46.295		
16,000.00	9,673.00	19,907.00	9,811.90	57.27	171.86	-92.24	56.23	1,242.02	5,341.38	5,222.65	118.73	44.986		
16,100.00	9,673.00	19,907.00	9,811.90	56.99	171.86	-92.92	56.23	1,242.02	5,254.81	5,134.73	120.07	43.764		
16,200.00	9,673.00	19,907.00	9,811.90	56.72	171.86	-93.51	56.23	1,242.02	5,162.78	5,041.66	121.11	42.627		
16,300.00	9,673.00	19,907.00	9,811.90	56.46	171.86	-93.54	56.23	1,242.02	5,069.89	4,947.78	122.11	41.518		
16,400.00	9,673.00	19,907.00	9,811.90	56.21	171.86	-93.54	56.23	1,242.02	4,977.27	4,854.12	123.15	40.416		
16,500.00	9,673.00	19,907.00	9,811.90	55.97	171.86	-93.54	56.23	1,242.02	4,884.95	4,760.72	124.23	39.322		
16,600.00	9,673.00	19,907.00	9,811.90	55.73	171.86	-93.54	56.23	1,242.02	4,792.93	4,667.58	125.35	38.235		
16,700.00	9,673.00	19,907.00	9,811.90	55.50	171.86	-93.54	56.23	1,242.02	4,701.24	4,574.72	126.52	37.157		
16,800.00	9,673.00	19,907.00	9,811.90	55.28	171.86	-93.54	56.23	1,242.02	4,609.90	4,482.15	127.74	36.087		
16,900.00	9,673.00	19,907.00	9,811.90	55.06	171.86	-93.54	56.23	1,242.02	4,518.92	4,389.90	129.02	35.026		
17,000.00	9,673.00	19,907.00	9,811.90	54.86	171.86	-93.54	56.23	1,242.02	4,428.33	4,297.99	130.34	33.975		
17,100.00	9,673.00	19,907.00	9,811.90	54.66	171.86	-93.54	56.23	1,242.02	4,338.15	4,206.43	131.72	32.934		
17,200.00	9,673.00	19,907.00	9,811.90	54.47	171.86	-93.54	56.23	1,242.02	4,248.42	4,115.25	133.16	31.904		
17,300.00	9,673.00	19,907.00	9,811.90	54.28	171.86	-93.54	56.23	1,242.02	4,159.15	4,024.48	134.67	30.885		
17,400.00	9,673.00	19,907.00	9,811.90	54.11	171.86	-93.54	56.23	1,242.02	4,070.38	3,934.14	136.24	29.877		
17,500.00	9,673.00	19,907.00	9,811.90	53.94	171.86	-93.54	56.23	1,242.02	3,982.14	3,844.27	137.87	28.882		
17,600.00	9,673.00	19,907.00	9,811.90	53.78	171.86	-93.54	56.23	1,242.02	3,894.48	3,754.89	139.59	27.900		
17,700.00	9,673.00	19,907.00	9,811.90	53.63	171.86	-93.54	56.23	1,242.02	3,807.42	3,666.05	141.37	26.932		
17,800.00	9,673.00	19,907.00	9,811.90	53.49	171.86	-93.54	56.23	1,242.02	3,721.01	3,577.77	143.24	25.978		
17,900.00	9,673.00	19,907.00	9,811.90	53.35	171.86	-93.54	56.23	1,242.02	3,635.30	3,490.11	145.18	25.039		
18,000.00	9,673.00	19,907.00	9,811.90	53.23	171.86	-93.54	56.23	1,242.02	3,550.33	3,403.11	147.22	24.116		
18,100.00	9,673.00	19,907.00	9,811.90	53.11	171.86	-93.54	56.23	1,242.02	3,466.17	3,316.83	149.34	23.210		
18,200.00	9,673.00	19,907.00	9,811.90	53.00	171.86	-93.54	56.23	1,242.02	3,382.87	3,231.31	151.56	22.320		
18,300.00	9,673.00	19,907.00	9,811.90	52.91	171.86	-93.54	56.23	1,242.02	3,300.50	3,146.62	153.88	21.449		
18,400.00	9,673.00	19,907.00	9,811.90	52.82	171.86	-93.54	56.23	1,242.02	3,219.12	3,062.83	156.29	20.597		
18,500.00	9,673.00	19,907.00	9,811.90	52.74	171.86	-93.54	56.23	1,242.02	3,138.82	2,980.01	158.81	19.765		
18,600.00	9,673.00	19,907.00	9,811.90	52.67	171.86	-93.54	56.23	1,242.02	3,059.69	2,898.25	161.43	18.953		
18,700.00	9,673.00	19,907.00	9,811.90	52.62	171.86	-93.54	56.23	1,242.02	2,981.81	2,817.64	164.17	18.163		
18,800.00	9,673.00	19,907.00	9,811.90	52.57	171.86	-93.54	56.23	1,242.02	2,905.28	2,738.27	167.00	17.396		
18,900.00	9,673.00	19,907.00	9,811.90	52.54	171.86	-93.54	56.23	1,242.02	2,830.21	2,660.26	169.95	16.653		
19,000.00	9,673.00	19,907.00	9,811.90	52.51	171.86	-93.54	56.23	1,242.02	2,756.73	2,583.73	173.01	15.934		
19,100.00	9,673.00	19,907.00	9,811.90	52.50	171.86	-93.54	56.23	1,242.02	2,684.97	2,508.81	176.16	15.241		
19,200.00	9,673.00	19,907.00	9,811.90	52.50	171.86	-93.54	56.23	1,242.02	2,615.06	2,435.64	179.42	14.575		
19,300.00	9,673.00	19,907.00	9,811.90	52.51	171.86	-93.54	56.23	1,242.02	2,547.16	2,364.39	182.76	13.937		
19,400.00	9,673.00	19,907.00	9,811.90	52.53	171.86	-93.54	56.23	1,242.02	2,481.43	2,295.24	186.19	13.328		
19,500.00	9,673.00	19,907.00	9,811.90	52.57	171.86	-93.54	56.23	1,242.02	2,418.05	2,228.37	189.67	12.748		
19,600.00	9,673.00	19,907.00	9,811.90	52.62	171.86	-93.54	56.23	1,242.02	2,357.21	2,164.00	193.21	12.201		
19,700.00	9,673.00	19,907.00	9,811.90	52.68	171.86	-93.54	56.23	1,242.02	2,299.11	2,102.35	196.76	11.685		
19,800.00	9,673.00	19,907.00	9,811.90	52.75	171.86	-93.54	56.23	1,242.02	2,243.96	2,043.66	200.31	11.203		
19,900.00	9,673.00	19,907.00	9,811.90	52.84	171.86	-93.54	56.23	1,242.02	2,192.00	1,988.18	203.81	10.755		
20,000.00	9,673.00	19,907.00	9,811.90	52.94	171.86	-93.54	56.23	1,242.02	2,143.44	1,936.20	207.24	10.343		
20,100.00	9,673.00	19,907.00	9,811.90	53.06	171.86	-93.54	56.23	1,242.02	2,098.52	1,887.98	210.55	9.967		
20,200.00	9,673.00	19,907.00	9,811.90	53.19	171.86	-93.54	56.23	1,242.02	2,057.49	1,843.82	213.68	9.629		
20,300.00	9,673.00	19,907.00	9,811.90	53.33	171.86	-93.54	56.23	1,242.02	2,020.58	1,804.00	216.58	9.329		
20,400.00	9,673.00	19,907.00	9,811.90	53.49	171.86	-93.54	56.23	1,242.02	1,988.02	1,768.81	219.21	9.069		
20,500.00	9,673.00	19,907.00	9,811.90	53.66	171.86	-93.54	56.23	1,242.02	1,960.02	1,738.53	221.49	8.849		
20,600.00	9,673.00	19,907.00	9,811.90	53.84	171.86	-93.54	56.23	1,242.02	1,936.79	1,713.40	223.39	8.670		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 14 Federal Com - (O) Hoss 2-11 W1AP Fed Com #2H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 156-MWD OWSG Rev5												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,610.93	9,673.00	19,907.00	9,811.90	54.93	171.86	-93.54	56.23	1,242.02	1,934.55	1,710.35	224.21	8.628	

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 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	89.35	0.68	59.98	59.98	59.98	0.55	109.203		
100.00	100.00	99.00	99.00	0.28	0.27	89.35	0.68	59.98	59.98	58.72	1.27	47.403		
200.00	200.00	199.00	199.00	0.63	0.63	89.35	0.68	59.98	59.98	58.00	1.98	30.259		
300.00	300.00	299.00	299.00	0.99	0.99	89.35	0.68	59.98	59.98	57.28	2.70	22.222		
400.00	400.00	399.00	399.00	1.35	1.35	89.35	0.68	59.98	59.98	56.57	3.42	17.558	CC	
500.00	500.00	499.00	499.00	1.71	1.71	89.35	0.68	59.98	59.98	57.54	4.10	15.039		
600.00	599.98	596.99	596.98	2.05	2.05	-91.81	0.27	61.57	61.64	62.04	4.76	14.025		
700.00	699.84	694.71	694.56	2.39	2.39	-94.92	-0.96	66.39	66.80	69.99	5.44	13.865		
800.00	799.49	792.95	792.47	2.73	2.73	-99.00	-2.94	74.17	75.43	78.82	6.13	13.853		
900.00	899.11	892.38	891.52	3.07	3.08	-102.46	-5.09	82.57	84.96	87.90	6.83	13.864		
1,000.00	998.73	991.81	990.57	3.42	3.43	-105.22	-7.23	90.96	94.73	96.55	7.52	13.840		
1,100.00	1,098.36	1,088.91	1,087.18	3.77	3.77	-84.39	-9.81	100.40	104.07	104.43	8.20	13.731		
1,200.00	1,197.92	1,185.70	1,183.08	4.12	4.12	-65.43	-13.57	112.83	112.63	111.45	8.88	13.545		
1,300.00	1,297.29	1,282.36	1,278.38	4.48	4.48	-51.38	-18.50	128.24	120.34	117.65	9.56	13.302		
1,400.00	1,396.36	1,378.86	1,372.91	4.84	4.83	-41.19	-24.60	146.60	127.21	122.52	10.27	12.930		
1,500.00	1,495.00	1,477.38	1,468.87	5.20	5.20	-33.46	-31.78	167.77	132.79	124.16	11.00	12.286		
1,600.00	1,593.09	1,577.31	1,566.13	5.56	5.57	-27.72	-39.14	189.45	135.16	122.36	11.74	11.422		
1,700.00	1,690.51	1,677.26	1,663.42	5.92	5.95	-23.26	-46.51	211.14	134.10	117.69	12.49	10.426		
1,800.00	1,787.29	1,777.15	1,760.65	6.28	6.33	-20.95	-53.87	232.81	130.17	112.74	13.23	9.518		
1,900.00	1,883.98	1,877.02	1,857.87	6.65	6.71	-19.73	-61.23	254.48	125.97	107.85	13.99	8.709		
2,000.00	1,980.68	1,976.90	1,955.09	7.02	7.09	-18.43	-68.60	276.15	121.84	103.02	14.75	7.985		
2,100.00	2,077.38	2,076.77	2,052.30	7.39	7.48	-17.04	-75.96	297.82	117.77	98.26	15.51	7.336		
2,200.00	2,174.08	2,176.65	2,149.52	7.77	7.86	-15.56	-83.32	319.49	113.77	93.58	16.27	6.751		
2,300.00	2,270.78	2,276.52	2,246.74	8.15	8.25	-13.96	-90.68	341.16	109.86	89.00	17.04	6.223		
2,400.00	2,367.48	2,376.40	2,343.96	8.53	8.63	-12.25	-98.04	362.83	106.04	84.51	17.81	5.745		
2,500.00	2,464.17	2,476.27	2,441.17	8.92	9.02	-10.41	-105.40	384.50	102.31	80.13	18.58	5.313		
2,600.00	2,560.87	2,576.15	2,538.39	9.30	9.41	-8.44	-112.77	406.17	98.71	75.88	19.35	4.922		
2,700.00	2,657.57	2,676.02	2,635.61	9.69	9.80	-6.32	-120.13	427.84	95.22	71.76	20.12	4.567		
2,800.00	2,754.27	2,775.90	2,732.83	10.08	10.19	-4.04	-127.49	449.51	91.88	67.81	20.89	4.246		
2,900.00	2,850.97	2,875.77	2,830.04	10.47	10.57	-1.60	-134.85	471.18	88.70	64.02	21.66	3.956		
3,000.00	2,947.66	2,975.65	2,927.26	10.86	10.96	1.02	-142.21	492.85	85.68	60.43	22.43	3.694		
3,100.00	3,044.36	3,075.52	3,024.48	11.25	11.35	3.83	-149.57	514.52	82.86	57.06	23.20	3.459		
3,200.00	3,141.06	3,175.40	3,121.70	11.64	11.74	6.82	-156.94	536.19	80.26	53.91	23.97	3.249		
3,300.00	3,237.76	3,275.27	3,218.91	12.03	12.13	10.01	-164.30	557.86	77.88	51.02	24.74	3.062		
3,400.00	3,334.46	3,375.15	3,316.13	12.43	12.52	13.38	-171.66	579.53	75.76	48.41	25.51	2.898		
3,500.00	3,431.16	3,475.02	3,413.35	12.82	12.91	16.94	-179.02	601.20	73.92	46.10	26.28	2.754		
3,600.00	3,527.85	3,574.90	3,510.57	13.21	13.31	20.66	-186.38	622.87	72.38	44.11	27.05	2.631		
3,700.00	3,624.55	3,674.77	3,607.78	13.61	13.70	24.53	-193.74	644.54	71.16	42.45	27.82	2.526		
3,800.00	3,721.25	3,774.65	3,705.00	14.00	14.09	28.51	-201.11	666.21	70.27	41.14	28.60	2.438		
3,900.00	3,817.95	3,874.52	3,802.22	14.40	14.48	32.57	-208.47	687.88	69.55	40.18	29.37	2.368		
4,000.00	3,914.65	3,974.40	3,899.43	14.79	14.87	36.68	-215.83	709.55	69.55	40.17	29.38	2.367		
4,001.07	3,915.68	3,975.46	3,900.47	14.80	14.87	36.72	-215.91	709.78	69.55	39.57	30.15	2.312		
4,100.00	4,011.35	4,074.27	3,996.65	15.19	15.26	40.79	-223.19	731.22	69.73	39.32	30.94	2.271	ES	
4,200.00	4,108.04	4,174.15	4,093.87	15.59	15.65	44.85	-230.55	752.89	70.26	39.42	31.72	2.243		
4,300.00	4,204.74	4,274.02	4,191.09	15.98	16.04	48.84	-237.91	774.56	71.14	39.84	32.51	2.225		
4,400.00	4,301.44	4,373.90	4,288.30	16.38	16.44	52.70	-245.28	796.23	72.35	40.58	33.30	2.219	SF	
4,500.00	4,398.14	4,473.77	4,385.52	16.78	16.83	56.43	-252.64	817.90	73.89	41.62	34.10	2.221		
4,600.00	4,494.84	4,573.65	4,482.74	17.17	17.22	59.99	-260.00	839.57	75.72	42.94	34.90	2.230		
4,700.00	4,591.53	4,673.52	4,579.96	17.57	17.61	63.37	-267.36	861.24	77.83	44.51	35.69	2.247		
4,800.00	4,688.23	4,773.40	4,677.17	17.97	18.00	66.56	-274.72	882.91	80.20	46.31	36.50	2.269		
4,900.00	4,784.93	4,873.27	4,774.39	18.37	18.40	69.56	-282.08	904.58	82.81	48.32	37.30	2.296		
5,000.00	4,881.63	4,973.15	4,871.61	18.77	18.79	72.37	-289.45	926.25	85.62	48.32	37.30	2.296		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,100.00	4,978.33	5,073.02	4,968.83	19.16	19.18	74.99	-296.81	947.92	88.63	50.53	38.10	2.326			
5,200.00	5,075.03	5,172.90	5,066.04	19.56	19.57	77.44	-304.17	969.59	91.81	52.91	38.90	2.360			
5,300.00	5,171.72	5,272.77	5,163.26	19.96	19.97	79.72	-311.53	991.26	95.15	55.45	39.71	2.396			
5,400.00	5,268.42	5,372.65	5,260.48	20.36	20.36	81.85	-318.89	1,012.93	98.63	58.12	40.51	2.435			
5,500.00	5,365.12	5,472.52	5,357.70	20.76	20.75	83.82	-326.25	1,034.61	102.24	60.92	41.31	2.475			
5,600.00	5,461.82	5,572.40	5,454.91	21.16	21.15	85.66	-333.62	1,056.28	105.95	63.84	42.12	2.516			
5,700.00	5,558.52	5,672.27	5,552.13	21.56	21.54	87.37	-340.98	1,077.95	109.77	66.85	42.92	2.558			
5,800.00	5,655.21	5,772.15	5,649.35	21.96	21.93	88.97	-348.34	1,099.62	113.69	69.96	43.72	2.600			
5,900.00	5,751.91	5,872.02	5,746.57	22.35	22.32	90.46	-355.70	1,121.29	117.68	73.15	44.53	2.643			
6,000.00	5,848.61	5,971.90	5,843.78	22.75	22.72	91.85	-363.06	1,142.96	121.75	76.42	45.33	2.686			
6,100.00	5,945.31	6,071.77	5,941.00	23.15	23.11	93.15	-370.42	1,164.63	125.88	79.75	46.13	2.729			
6,200.00	6,042.01	6,171.65	6,038.22	23.55	23.50	94.37	-377.79	1,186.30	130.08	83.14	46.94	2.771			
6,300.00	6,138.71	6,271.52	6,135.43	23.95	23.90	95.51	-385.15	1,207.97	134.33	86.59	47.74	2.814			
6,400.00	6,235.40	6,371.40	6,232.65	24.35	24.29	96.58	-392.51	1,229.64	138.63	90.09	48.54	2.856			
6,500.00	6,332.10	6,471.27	6,329.87	24.75	24.68	97.59	-399.87	1,251.31	142.98	93.64	49.34	2.898			
6,600.00	6,428.80	6,571.15	6,427.09	25.15	25.07	98.53	-407.23	1,272.98	147.37	97.22	50.15	2.939			
6,700.00	6,525.50	6,671.02	6,524.30	25.55	25.47	99.42	-414.59	1,294.65	151.79	100.85	50.95	2.979			
6,800.00	6,622.20	6,770.90	6,621.52	25.95	25.86	100.26	-421.96	1,316.32	156.25	104.50	51.75	3.019			
6,900.00	6,718.89	6,870.77	6,718.74	26.35	26.25	101.06	-429.32	1,337.99	160.74	108.19	52.55	3.059			
7,000.00	6,815.59	6,970.65	6,815.96	26.75	26.65	101.81	-436.68	1,359.66	165.27	111.91	53.35	3.098			
7,100.00	6,912.29	7,070.52	6,913.17	27.15	27.04	102.52	-444.04	1,381.33	169.81	115.66	54.15	3.136			
7,200.00	7,008.99	7,157.91	6,998.11	27.55	27.39	102.94	-452.08	1,400.17	176.35	121.61	54.74	3.221			
7,300.00	7,105.69	7,233.20	7,069.98	27.95	27.68	102.39	-468.06	1,415.59	194.23	139.64	54.59	3.558			
7,400.00	7,202.39	7,300.00	7,131.67	28.35	27.94	101.29	-490.20	1,428.35	224.03	170.55	53.48	4.189			
7,500.00	7,299.08	7,368.49	7,191.95	28.75	28.20	99.84	-520.33	1,440.34	264.53	212.11	52.43	5.046			
7,600.00	7,395.78	7,426.33	7,239.89	29.15	28.41	98.53	-551.32	1,449.47	314.51	263.73	50.79	6.193			
7,700.00	7,492.48	7,477.43	7,279.57	29.56	28.59	97.40	-582.67	1,456.71	372.49	323.47	49.02	7.598			
7,800.00	7,589.18	7,522.22	7,312.02	29.96	28.74	96.46	-613.00	1,462.37	437.10	389.84	47.27	9.248			
7,900.00	7,685.98	7,550.00	7,330.97	30.36	28.84	96.58	-633.06	1,465.53	507.38	462.51	44.87	11.307			
8,000.00	7,783.18	7,600.00	7,362.62	30.75	28.99	96.55	-671.43	1,470.55	581.57	537.25	44.32	13.121			
8,100.00	7,880.77	7,625.22	7,377.32	31.14	29.07	97.15	-691.79	1,472.74	659.50	616.84	42.66	15.459			
8,200.00	7,978.73	7,650.00	7,390.91	31.53	29.15	97.85	-712.42	1,474.65	740.41	699.05	41.36	17.901			
8,300.00	8,077.03	7,674.18	7,403.33	31.91	29.22	98.65	-733.11	1,476.30	823.73	783.39	40.34	20.421			
8,400.00	8,175.63	7,700.00	7,415.64	32.28	29.30	99.47	-755.75	1,477.82	909.09	869.47	39.62	22.942			
8,500.00	8,274.51	7,700.00	7,415.64	32.65	29.30	101.22	-755.75	1,477.82	996.23	958.10	38.14	26.124			
8,600.00	8,373.63	7,728.16	7,427.93	33.02	29.37	102.09	-781.04	1,479.17	1,084.39	1,046.49	37.91	28.608			
8,700.00	8,472.97	7,750.00	7,436.62	33.37	29.44	103.23	-801.06	1,480.01	1,173.99	1,136.42	37.57	31.245			
8,800.00	8,572.50	7,750.00	7,436.62	33.73	29.44	105.29	-801.06	1,480.01	1,264.44	1,227.73	36.71	34.446			
8,900.00	8,672.17	7,750.00	7,436.62	34.08	29.44	107.48	-801.06	1,480.01	1,356.05	1,320.03	36.02	37.643			
9,000.00	8,771.98	7,776.87	7,446.28	34.42	29.51	108.55	-826.12	1,480.79	1,447.70	1,411.54	36.16	40.033			
9,100.00	8,871.87	7,800.00	7,453.68	34.76	29.57	109.80	-848.03	1,481.23	1,540.50	1,504.24	36.25	42.492			
9,200.00	8,971.83	7,800.00	7,453.68	35.10	29.57	112.13	-848.03	1,481.23	1,633.35	1,597.48	35.87	45.532			
9,300.00	9,071.83	7,800.00	7,453.68	35.42	29.57	114.54	-848.03	1,481.23	1,726.78	1,691.19	35.59	48.520			
9,400.00	9,171.44	7,811.27	7,456.97	35.73	29.60	123.49	-858.80	1,481.36	1,818.26	1,782.77	35.49	51.230			
9,500.00	9,268.29	7,825.96	7,460.95	36.04	29.64	17.55	-872.94	1,481.47	1,903.33	1,868.05	35.28	53.951			
9,600.00	9,359.44	7,825.96	7,460.95	36.33	29.64	14.25	-872.94	1,481.47	1,980.24	1,945.56	34.68	57.103			
9,700.00	9,442.11	7,871.57	7,471.87	36.59	29.76	11.94	-917.23	1,481.65	2,046.50	2,011.76	34.74	58.909			
9,800.00	9,513.79	7,900.00	7,477.79	36.83	29.84	10.55	-945.03	1,481.77	2,101.47	2,067.04	34.43	61.042			
9,900.00	9,572.31	7,933.22	7,483.82	37.05	29.93	9.66	-977.70	1,481.91	2,143.83	2,109.69	34.14	62.798			
10,000.00	9,615.89	7,966.60	7,488.93	37.26	30.02	9.12	-1,010.69	1,482.06	2,172.79	2,138.95	33.84	64.216			
10,100.00	9,643.92	8,000.00	7,493.08	37.46	30.11	8.89	-1,043.82	1,482.20	2,188.54	2,154.99	33.55	65.231			
10,200.00	9,662.03	8,035.30	7,496.41	37.67	30.20	8.81	-1,078.97	1,482.36	2,197.22	2,163.87	33.36	65.867			

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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													Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning					
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)								
10,300.00	9,671.50	8,100.00	7,499.70	37.89	30.38	8.78	-1,143.57	1,482.65	2,200.87	2,167.33	33.54	65.621						
10,400.00	9,673.00	8,100.00	7,499.70	38.11	30.38	8.79	-1,143.57	1,482.65	2,198.41	2,165.27	33.14	66.328						
10,500.00	9,673.00	8,163.33	7,499.99	38.34	30.55	8.79	-1,206.90	1,482.94	2,197.81	2,164.37	33.44	65.725						
10,600.00	9,673.00	8,263.33	7,499.99	38.58	30.83	8.79	-1,306.90	1,483.39	2,197.81	2,163.71	34.10	64.453						
10,700.00	9,673.00	8,363.33	7,499.99	38.83	31.13	8.79	-1,406.90	1,483.85	2,197.81	2,162.99	34.82	63.124						
10,800.00	9,673.00	8,463.33	7,499.99	39.10	31.44	8.79	-1,506.90	1,484.31	2,197.81	2,162.22	35.59	61.752						
10,900.00	9,673.00	8,563.33	7,499.99	39.37	31.76	8.79	-1,606.90	1,484.77	2,197.81	2,161.39	36.42	60.352						
11,000.00	9,673.00	8,663.33	7,500.00	39.65	32.10	8.79	-1,706.90	1,485.23	2,197.81	2,160.52	37.29	58.939						
11,100.00	9,673.00	8,763.33	7,500.00	39.95	32.45	8.79	-1,806.89	1,485.68	2,197.81	2,159.60	38.21	57.522						
11,200.00	9,673.00	8,863.33	7,500.00	40.25	32.81	8.79	-1,906.89	1,486.14	2,197.81	2,158.64	39.17	56.113						
11,300.00	9,673.00	8,963.33	7,500.00	40.57	33.18	8.79	-2,006.89	1,486.60	2,197.81	2,157.64	40.17	54.719						
11,400.00	9,673.00	9,063.33	7,500.00	40.90	33.56	8.79	-2,106.89	1,487.06	2,197.81	2,156.61	41.20	53.347						
11,500.00	9,673.00	9,163.33	7,500.00	41.23	33.96	8.79	-2,206.89	1,487.51	2,197.80	2,155.54	42.26	52.001						
11,600.00	9,673.00	9,263.33	7,500.00	41.58	34.37	8.79	-2,306.89	1,487.97	2,197.80	2,154.44	43.36	50.686						
11,700.00	9,673.00	9,363.33	7,500.00	41.93	34.78	8.79	-2,406.89	1,488.43	2,197.80	2,153.32	44.49	49.405						
11,800.00	9,673.00	9,463.33	7,500.00	42.30	35.21	8.79	-2,506.89	1,488.89	2,197.80	2,152.17	45.64	48.160						
11,900.00	9,673.00	9,563.33	7,500.00	42.67	35.65	8.79	-2,606.89	1,489.34	2,197.80	2,150.99	46.81	46.952						
12,000.00	9,673.00	9,663.33	7,500.00	43.06	36.10	8.79	-2,706.88	1,489.80	2,197.80	2,149.79	48.01	45.782						
12,100.00	9,673.00	9,763.33	7,500.00	43.45	36.56	8.79	-2,806.88	1,490.26	2,197.80	2,148.58	49.22	44.650						
12,200.00	9,673.00	9,863.33	7,500.00	43.85	37.02	8.79	-2,906.88	1,490.72	2,197.80	2,147.34	50.46	43.556						
12,300.00	9,673.00	9,963.33	7,500.00	44.26	37.50	8.79	-3,006.88	1,491.18	2,197.80	2,146.09	51.71	42.500						
12,400.00	9,673.00	10,063.33	7,500.00	44.68	37.99	8.79	-3,106.88	1,491.63	2,197.80	2,144.81	52.98	41.481						
12,500.00	9,673.00	10,163.33	7,500.00	45.11	38.48	8.79	-3,206.88	1,492.09	2,197.80	2,143.53	54.27	40.498						
12,600.00	9,673.00	10,263.33	7,500.00	45.55	38.98	8.79	-3,306.88	1,492.55	2,197.80	2,142.23	55.57	39.551						
12,700.00	9,673.00	10,363.33	7,500.00	45.99	39.49	8.79	-3,406.88	1,493.01	2,197.80	2,140.91	56.88	38.637						
12,800.00	9,673.00	10,463.33	7,500.00	46.44	40.01	8.79	-3,506.88	1,493.46	2,197.79	2,139.59	58.21	37.758						
12,900.00	9,673.00	10,563.33	7,500.00	46.90	40.53	8.79	-3,606.88	1,493.92	2,197.79	2,138.25	59.55	36.910						
13,000.00	9,673.00	10,663.33	7,500.00	47.37	41.07	8.79	-3,706.87	1,494.38	2,197.79	2,136.90	60.89	36.092						
13,100.00	9,673.00	10,763.33	7,500.00	47.84	41.61	8.79	-3,806.87	1,494.84	2,197.79	2,135.54	62.25	35.305						
13,200.00	9,673.00	10,863.33	7,500.00	48.32	42.15	8.79	-3,906.87	1,495.29	2,197.79	2,134.17	63.62	34.546						
13,300.00	9,673.00	10,963.33	7,500.00	48.81	42.70	8.79	-4,006.87	1,495.75	2,197.79	2,132.79	65.00	33.814						
13,400.00	9,673.00	11,063.33	7,500.00	49.30	43.26	8.79	-4,106.87	1,496.21	2,197.79	2,131.41	66.38	33.109						
13,500.00	9,673.00	11,163.33	7,500.00	49.80	43.83	8.79	-4,206.87	1,496.67	2,197.79	2,130.01	67.77	32.428						
13,600.00	9,673.00	11,263.33	7,500.00	50.31	44.40	8.79	-4,306.87	1,497.12	2,197.79	2,128.61	69.17	31.772						
13,700.00	9,673.00	11,363.33	7,500.00	50.82	44.97	8.79	-4,406.87	1,497.58	2,197.79	2,127.21	70.58	31.138						
13,800.00	9,673.00	11,463.33	7,500.00	51.34	45.55	8.79	-4,506.87	1,498.04	2,197.79	2,125.79	72.00	30.527						
13,900.00	9,673.00	11,563.33	7,500.00	51.87	46.14	8.79	-4,606.86	1,498.50	2,197.79	2,124.37	73.42	29.936						
14,000.00	9,673.00	11,718.38	7,500.00	52.40	47.07	8.49	-4,761.23	1,510.57	2,196.75	2,121.15	75.60	29.056						
14,100.00	9,673.00	11,875.33	7,500.00	52.94	48.07	7.51	-4,912.43	1,551.77	2,193.04	2,114.96	78.08	28.086						
14,200.00	9,673.00	12,019.60	7,500.00	53.49	49.01	6.63	-5,042.25	1,614.28	2,188.63	2,108.12	80.51	27.184						
14,300.00	9,673.00	12,154.26	7,500.00	54.08	49.86	5.74	-5,151.89	1,692.20	2,184.55	2,101.72	82.84	26.372						
14,400.00	9,673.00	12,280.68	7,500.00	54.68	50.62	4.86	-5,242.01	1,780.68	2,180.99	2,095.96	85.04	25.648						
14,500.00	9,673.00	12,400.16	7,500.00	55.27	51.30	3.99	-5,313.82	1,876.05	2,178.04	2,090.94	87.10	25.007						
14,600.00	9,673.00	12,513.87	7,500.00	55.84	51.87	3.15	-5,368.69	1,975.53	2,175.72	2,086.70	89.02	24.441						
14,700.00	9,673.00	12,622.80	7,500.00	56.38	52.36	2.35	-5,407.95	2,077.06	2,174.03	2,083.23	90.80	23.943						
14,800.00	9,673.00	12,727.80	7,500.00	56.88	52.77	1.58	-5,432.81	2,179.01	2,172.91	2,080.46	92.45	23.504						
14,900.00	9,673.00	12,829.59	7,500.00	57.31	53.09	0.87	-5,444.36	2,280.07	2,172.27	2,078.29	93.97	23.116						
15,000.00	9,673.00	12,928.76	7,500.00	57.68	53.33	0.22	-5,443.56	2,379.18	2,172.01	2,076.62	95.40	22.768						
15,036.04	9,673.00	12,963.96	7,500.00	57.78	53.40	0.00	-5,440.41	2,414.23	2,172.00	2,076.11	95.89	22.651						
15,100.00	9,673.00	13,025.81	7,500.00	57.96	53.50	-0.36	-5,431.26	2,475.39	2,172.04	2,075.30	96.74	22.452						
15,200.00	9,673.00	13,121.18	7,500.00	58.17	53.60	-0.86	-5,408.25	2,567.89	2,172.25	2,074.22	98.03	22.159						
15,300.00	9,673.00	13,215.25	7,500.00	58.28	53.63	-1.27	-5,375.25	2,655.92	2,172.55	2,073.25	99.29	21.880						

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,400.00	9,673.00	13,308.34	7,500.00	58.32	53.61	-1.59	-5,332.93	2,738.78	2,172.84	2,072.28	100.56	21.608		
15,500.00	9,673.00	13,400.00	7,500.00	58.28	53.54	-1.80	-5,282.40	2,815.20	2,173.07	2,071.25	101.83	21.340		
15,600.00	9,673.00	13,492.78	7,500.00	58.17	53.41	-1.91	-5,222.93	2,886.36	2,173.20	2,070.03	103.17	21.065		
15,700.00	9,673.00	13,584.69	7,500.00	58.00	53.25	-1.90	-5,156.52	2,949.82	2,173.20	2,068.65	104.55	20.786		
15,800.00	9,673.00	13,676.73	7,500.00	57.78	53.05	-1.79	-5,083.35	3,005.57	2,173.06	2,067.06	106.00	20.501		
15,900.00	9,673.00	13,769.18	7,500.00	57.54	52.83	-1.57	-5,004.05	3,053.02	2,172.82	2,065.30	107.52	20.209		
16,000.00	9,673.00	13,862.33	7,500.00	57.27	52.58	-1.25	-4,919.30	3,091.54	2,172.52	2,063.41	109.11	19.911		
16,100.00	9,673.00	13,956.46	7,500.00	56.99	52.32	-0.83	-4,829.79	3,120.51	2,172.23	2,061.46	110.77	19.610		
16,200.00	9,673.00	14,052.27	7,500.00	56.72	52.04	-0.39	-4,735.90	3,139.33	2,172.05	2,059.58	112.47	19.312		
16,300.00	9,673.00	14,150.94	7,500.00	56.46	51.76	-0.15	-4,637.65	3,148.10	2,172.00	2,057.92	114.09	19.038		
16,400.00	9,673.00	14,250.72	7,500.00	56.21	51.49	-0.02	-4,537.96	3,152.30	2,172.00	2,056.35	115.65	18.781		
16,438.70	9,673.00	14,289.41	7,500.00	56.12	51.38	0.00	-4,499.28	3,152.99	2,172.00	2,055.75	116.24	18.685		
16,500.00	9,673.00	14,350.71	7,500.00	55.97	51.22	0.01	-4,437.99	3,153.07	2,172.00	2,054.83	117.17	18.537		
16,600.00	9,673.00	14,450.71	7,500.00	55.73	50.96	0.01	-4,337.99	3,152.62	2,172.00	2,053.32	118.68	18.302		
16,700.00	9,673.00	14,550.71	7,500.00	55.50	50.71	0.01	-4,237.99	3,152.18	2,172.00	2,051.81	120.19	18.072		
16,800.00	9,673.00	14,650.71	7,500.00	55.28	50.47	0.01	-4,137.99	3,151.74	2,172.00	2,050.30	121.70	17.847		
16,900.00	9,673.00	14,750.71	7,500.00	55.06	50.24	0.01	-4,037.99	3,151.30	2,172.00	2,048.78	123.21	17.628		
17,000.00	9,673.00	14,850.71	7,500.00	54.86	50.01	0.01	-3,937.99	3,150.85	2,172.00	2,047.27	124.73	17.414		
17,100.00	9,673.00	14,950.71	7,500.00	54.66	49.79	0.01	-3,838.00	3,150.41	2,172.00	2,045.75	126.24	17.205		
17,200.00	9,673.00	15,050.71	7,500.00	54.47	49.58	0.01	-3,738.00	3,149.97	2,172.00	2,044.24	127.76	17.001		
17,300.00	9,673.00	15,150.71	7,500.00	54.28	49.38	0.01	-3,638.00	3,149.53	2,172.00	2,042.72	129.28	16.801		
17,400.00	9,673.00	15,250.71	7,500.00	54.11	49.19	0.01	-3,538.00	3,149.08	2,172.00	2,041.20	130.80	16.606		
17,500.00	9,673.00	15,350.71	7,500.00	53.94	49.00	0.01	-3,438.00	3,148.64	2,172.00	2,039.68	132.32	16.415		
17,600.00	9,673.00	15,450.71	7,500.00	53.78	48.82	0.01	-3,338.00	3,148.20	2,172.00	2,038.16	133.84	16.228		
17,700.00	9,673.00	15,550.71	7,500.00	53.63	48.65	0.01	-3,238.00	3,147.76	2,172.00	2,036.63	135.36	16.046		
17,800.00	9,673.00	15,650.71	7,500.00	53.49	48.49	0.01	-3,138.00	3,147.31	2,172.00	2,035.11	136.89	15.867		
17,900.00	9,673.00	15,750.71	7,500.00	53.35	48.34	0.01	-3,038.00	3,146.87	2,172.00	2,033.59	138.41	15.692		
18,000.00	9,673.00	15,850.71	7,500.00	53.23	48.20	0.01	-2,938.00	3,146.43	2,172.00	2,032.06	139.94	15.521		
18,100.00	9,673.00	15,950.71	7,500.00	53.11	48.07	0.01	-2,838.00	3,145.99	2,172.00	2,030.53	141.46	15.354		
18,200.00	9,673.00	16,050.71	7,500.00	53.00	47.95	0.01	-2,738.01	3,145.55	2,172.00	2,029.01	142.99	15.190		
18,300.00	9,673.00	16,150.71	7,500.00	52.91	47.83	0.01	-2,638.01	3,145.10	2,172.00	2,027.48	144.52	15.029		
18,400.00	9,673.00	16,250.71	7,500.00	52.82	47.73	0.01	-2,538.01	3,144.66	2,172.00	2,025.95	146.05	14.872		
18,500.00	9,673.00	16,350.71	7,500.00	52.74	47.63	0.01	-2,438.01	3,144.22	2,172.00	2,024.42	147.58	14.717		
18,600.00	9,673.00	16,450.71	7,500.00	52.67	47.55	0.01	-2,338.01	3,143.78	2,172.00	2,022.89	149.11	14.566		
18,700.00	9,673.00	16,550.71	7,500.00	52.62	47.48	0.01	-2,238.01	3,143.33	2,172.00	2,021.35	150.64	14.418		
18,800.00	9,673.00	16,650.71	7,500.00	52.57	47.41	0.01	-2,138.01	3,142.89	2,172.00	2,019.82	152.18	14.273		
18,900.00	9,673.00	16,750.71	7,500.00	52.54	47.36	0.01	-2,038.01	3,142.45	2,172.00	2,018.29	153.71	14.131		
19,000.00	9,673.00	16,850.71	7,500.00	52.51	47.32	0.01	-1,938.01	3,142.01	2,172.00	2,016.75	155.24	13.991		
19,100.00	9,673.00	16,950.71	7,500.00	52.50	47.30	0.01	-1,838.01	3,141.56	2,172.00	2,015.22	156.78	13.854		
19,200.00	9,673.00	17,050.71	7,500.00	52.50	47.28	0.01	-1,738.02	3,141.12	2,172.00	2,013.68	158.31	13.720		
19,300.00	9,673.00	17,150.71	7,500.00	52.51	47.28	0.01	-1,638.02	3,140.68	2,172.00	2,012.15	159.85	13.588		
19,400.00	9,673.00	17,250.71	7,500.00	52.53	47.29	0.01	-1,538.02	3,140.24	2,172.00	2,010.61	161.39	13.458		
19,500.00	9,673.00	17,350.71	7,500.00	52.57	47.31	0.01	-1,438.02	3,139.79	2,172.00	2,009.07	162.92	13.331		
19,600.00	9,673.00	17,450.71	7,500.00	52.62	47.35	0.01	-1,338.02	3,139.35	2,172.00	2,007.54	164.46	13.207		
19,700.00	9,673.00	17,550.71	7,500.00	52.68	47.40	0.01	-1,238.02	3,138.91	2,172.00	2,006.00	166.00	13.084		
19,800.00	9,673.00	17,650.71	7,500.00	52.75	47.46	0.01	-1,138.02	3,138.47	2,172.00	2,004.46	167.54	12.964		
19,900.00	9,673.00	17,750.71	7,500.00	52.84	47.54	0.01	-1,038.02	3,138.02	2,172.00	2,002.92	169.08	12.846		
20,000.00	9,673.00	17,850.71	7,500.00	52.94	47.64	0.01	-938.02	3,137.58	2,172.00	2,001.38	170.62	12.730		
20,100.00	9,673.00	17,950.71	7,500.00	53.06	47.75	0.01	-838.02	3,137.14	2,172.00	1,999.84	172.16	12.616		
20,200.00	9,673.00	18,050.71	7,500.00	53.19	47.87	0.01	-738.03	3,136.70	2,172.00	1,998.30	173.70	12.504		
20,300.00	9,673.00	18,150.71	7,500.00	53.33	48.01	0.01	-638.03	3,136.26	2,172.00	1,996.75	175.24	12.394		
20,400.00	9,673.00	18,250.71	7,500.00	53.49	48.16	0.01	-538.03	3,135.81	2,172.00	1,995.21	176.79	12.286		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
20,500.00	9,673.00	18,350.71	7,500.00	53.66	48.33	0.01	-438.03	3,135.37	2,172.00	1,993.67	178.33	12.180		
20,600.00	9,673.00	18,450.71	7,500.00	53.84	48.52	0.01	-338.03	3,134.93	2,172.00	1,992.13	179.87	12.075		
20,610.93	9,673.00	18,461.63	7,500.00	54.93	48.54	0.01	-327.10	3,134.88	2,172.00	1,992.00	180.00	12.067		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Reference				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	89.36	0.45	39.99	40.01					
100.00	100.00	99.00	99.00	0.28	0.27	89.36	0.45	39.99	39.99	39.44	0.55	72.808		
200.00	200.00	199.00	199.00	0.63	0.63	89.36	0.45	39.99	39.99	38.73	1.27	31.605		
300.00	300.00	299.00	299.00	0.99	0.99	89.36	0.45	39.99	39.99	38.01	1.98	20.174		
400.00	400.00	399.00	399.00	1.35	1.35	89.36	0.45	39.99	39.99	37.29	2.70	14.816		
500.00	500.00	499.00	499.00	1.71	1.71	89.36	0.45	39.99	39.99	36.58	3.42	11.707	CC	
500.49	500.49	499.49	499.49	1.71	1.71	-90.64	0.45	39.99	39.99	36.57	3.42	11.695		
600.00	599.98	598.98	598.98	2.05	2.06	-93.14	0.45	39.99	40.05	35.93	4.12	9.731		
700.00	699.84	698.84	698.84	2.39	2.42	-100.50	0.45	39.99	40.67	35.87	4.80	8.465	ES	
800.00	799.49	798.49	798.49	2.73	2.78	-111.37	0.45	39.99	42.96	37.46	5.50	7.809		
900.00	899.11	898.11	898.11	3.07	3.14	-121.32	0.45	39.99	46.86	40.65	6.20	7.552		
1,000.00	998.73	997.73	997.73	3.42	3.49	-129.54	0.45	39.99	51.94	45.03	6.91	7.515		
1,100.00	1,098.36	1,097.36	1,097.36	3.77	3.85	-114.51	0.45	39.99	56.52	48.90	7.62	7.418		
1,200.00	1,197.92	1,196.92	1,196.92	4.12	4.21	-103.54	0.45	39.99	59.47	51.14	8.33	7.140		
1,300.00	1,297.29	1,296.29	1,296.29	4.48	4.56	-99.94	0.45	39.99	61.62	52.58	9.04	6.818		
1,400.00	1,396.36	1,395.36	1,395.36	4.84	4.92	-102.69	0.45	39.99	64.22	54.47	9.75	6.589		
1,500.00	1,495.00	1,494.00	1,494.00	5.20	5.27	-109.73	0.45	39.99	68.81	58.36	10.46	6.582		
1,600.00	1,593.09	1,592.09	1,592.09	5.56	5.62	-118.84	0.45	39.99	76.94	65.78	11.16	6.892		
1,700.00	1,690.51	1,689.51	1,689.51	5.92	5.97	-128.04	0.45	39.99	89.63	77.75	11.87	7.549		
1,800.00	1,787.29	1,786.29	1,786.29	6.28	6.32	-137.42	0.45	39.99	106.97	94.39	12.58	8.502		
1,900.00	1,883.98	1,886.35	1,886.33	6.65	6.67	-145.08	0.12	41.25	126.05	112.75	13.30	9.480		
2,000.00	1,980.68	1,988.48	1,988.35	7.02	7.02	-150.19	-1.13	45.98	143.52	129.52	14.01	10.247		
2,100.00	2,077.38	2,092.04	2,091.54	7.39	7.37	-153.74	-3.33	54.37	158.48	143.77	14.71	10.772		
2,200.00	2,174.08	2,196.78	2,195.51	7.77	7.73	-156.29	-6.52	66.52	170.46	155.05	15.41	11.059		
2,300.00	2,270.78	2,302.43	2,299.86	8.15	8.10	-158.18	-10.72	82.49	179.20	163.09	16.11	11.125		
2,400.00	2,367.48	2,408.72	2,404.15	8.53	8.47	-159.60	-15.92	102.30	184.51	167.72	16.79	10.988		
2,500.00	2,464.17	2,513.86	2,506.52	8.92	8.84	-160.65	-22.02	125.49	186.40	168.92	17.48	10.665		
2,600.00	2,560.87	2,613.82	2,603.57	9.30	9.19	-161.55	-28.09	148.61	187.24	169.03	18.21	10.282		
2,700.00	2,657.57	2,713.77	2,700.63	9.69	9.55	-162.44	-34.17	171.73	188.12	169.18	18.95	9.928		
2,800.00	2,754.27	2,813.72	2,797.68	10.08	9.91	-163.33	-40.24	194.85	189.06	169.36	19.69	9.600		
2,900.00	2,850.97	2,913.68	2,894.73	10.47	10.28	-164.21	-46.32	217.97	190.03	169.59	20.44	9.297		
3,000.00	2,947.66	3,013.63	2,991.78	10.86	10.65	-165.07	-52.39	241.09	191.05	169.86	21.19	9.016		
3,100.00	3,044.36	3,113.58	3,088.84	11.25	11.01	-165.93	-58.47	264.21	192.11	170.17	21.94	8.754		
3,200.00	3,141.06	3,213.54	3,185.89	11.64	11.39	-166.78	-64.54	287.33	193.22	170.52	22.70	8.511		
3,300.00	3,237.76	3,313.49	3,282.94	12.03	11.76	-167.62	-70.62	310.45	194.37	170.90	23.46	8.284		
3,400.00	3,334.46	3,413.44	3,379.99	12.43	12.13	-168.45	-76.69	333.57	195.55	171.33	24.23	8.072		
3,500.00	3,431.16	3,513.40	3,477.05	12.82	12.51	-169.26	-82.77	356.69	196.78	171.79	24.99	7.874		
3,600.00	3,527.85	3,613.35	3,574.10	13.21	12.88	-170.07	-88.84	379.81	198.05	172.29	25.76	7.689		
3,700.00	3,624.55	3,713.30	3,671.15	13.61	13.26	-170.87	-94.92	402.92	199.36	172.83	26.53	7.515		
3,800.00	3,721.25	3,813.26	3,768.20	14.00	13.64	-171.66	-100.99	426.04	200.70	173.40	27.30	7.352		
3,900.00	3,817.95	3,913.21	3,865.26	14.40	14.02	-172.43	-107.07	449.16	202.09	174.01	28.07	7.198		
4,000.00	3,914.65	4,013.16	3,962.31	14.79	14.40	-173.20	-113.14	472.28	203.51	174.66	28.85	7.054		
4,100.00	4,011.35	4,113.12	4,059.36	15.19	14.78	-173.95	-119.22	495.40	204.96	175.33	29.63	6.918		
4,200.00	4,108.04	4,213.07	4,156.42	15.59	15.16	-174.70	-125.29	518.52	206.45	176.05	30.41	6.790		
4,300.00	4,204.74	4,313.02	4,253.47	15.98	15.55	-175.43	-131.37	541.64	207.98	176.79	31.19	6.669		
4,400.00	4,301.44	4,412.98	4,350.52	16.38	15.93	-176.15	-137.44	564.76	209.53	177.57	31.97	6.554		
4,500.00	4,398.14	4,512.93	4,447.57	16.78	16.31	-176.86	-143.52	587.88	211.13	178.37	32.75	6.446		
4,600.00	4,494.84	4,612.88	4,544.63	17.17	16.70	-177.57	-149.59	611.00	212.75	179.21	33.54	6.344		
4,700.00	4,591.53	4,712.84	4,641.68	17.57	17.09	-178.26	-155.67	634.12	214.40	180.08	34.32	6.247		
4,800.00	4,688.23	4,812.79	4,738.73	17.97	17.47	-178.94	-161.74	657.24	216.09	180.98	35.11	6.155		
4,900.00	4,784.93	4,912.74	4,835.78	18.37	17.86	-179.60	-167.82	680.36	217.80	181.91	35.90	6.068		
5,000.00	4,881.63	5,012.69	4,932.84	18.77	18.24	-179.74	-173.89	703.48	219.55	182.86	36.68	5.985		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	4,978.33	5,112.65	5,029.89	19.16	18.63	179.09	-179.97	726.60	221.32	183.85	37.47	5.906		
5,200.00	5,075.03	5,212.60	5,126.94	19.56	19.02	178.45	-186.04	749.72	223.12	184.86	38.26	5.831		
5,300.00	5,171.72	5,312.55	5,223.99	19.96	19.41	177.82	-192.12	772.84	224.95	185.90	39.05	5.760		
5,400.00	5,268.42	5,412.51	5,321.05	20.36	19.80	177.21	-198.19	795.96	226.81	186.96	39.85	5.692		
5,500.00	5,365.12	5,512.46	5,418.10	20.76	20.18	176.60	-204.27	819.08	228.69	188.05	40.64	5.627		
5,600.00	5,461.82	5,612.41	5,515.15	21.16	20.57	176.00	-210.34	842.20	230.59	189.16	41.43	5.565		
5,700.00	5,558.52	5,712.37	5,612.20	21.56	20.96	175.42	-216.42	865.32	232.52	190.29	42.23	5.506		
5,800.00	5,655.21	5,812.32	5,709.26	21.96	21.35	174.84	-222.49	888.44	234.48	191.45	43.02	5.450		
5,900.00	5,751.91	5,912.27	5,806.31	22.35	21.74	174.27	-228.57	911.56	236.45	192.64	43.82	5.396		
6,000.00	5,848.61	6,012.23	5,903.36	22.75	22.13	173.71	-234.64	934.68	238.46	193.84	44.61	5.345		
6,100.00	5,945.31	6,112.18	6,000.42	23.15	22.52	173.16	-240.72	957.80	240.48	195.07	45.41	5.296		
6,200.00	6,042.01	6,212.13	6,097.47	23.55	22.91	172.62	-246.79	980.92	242.52	196.32	46.21	5.249		
6,300.00	6,138.71	6,312.09	6,194.52	23.95	23.30	172.09	-252.87	1,004.04	244.59	197.58	47.00	5.204		
6,400.00	6,235.40	6,412.04	6,291.57	24.35	23.70	171.57	-258.94	1,027.16	246.68	198.87	47.80	5.160		
6,500.00	6,332.10	6,511.99	6,388.63	24.75	24.09	171.06	-265.02	1,050.28	248.78	200.18	48.60	5.119		
6,600.00	6,428.80	6,611.95	6,485.68	25.15	24.48	170.55	-271.09	1,073.40	250.91	201.51	49.40	5.079		
6,700.00	6,525.50	6,711.90	6,582.73	25.55	24.87	170.06	-277.17	1,096.52	253.05	202.86	50.20	5.041		
6,800.00	6,622.20	6,811.85	6,679.78	25.95	25.26	169.57	-283.24	1,119.63	255.22	204.22	51.00	5.004		
6,900.00	6,718.89	6,911.81	6,776.84	26.35	25.65	169.09	-289.32	1,142.75	257.40	205.60	51.80	4.969		
7,000.00	6,815.59	7,011.76	6,873.89	26.75	26.05	168.62	-295.39	1,165.87	259.60	207.00	52.60	4.936		
7,100.00	6,912.29	7,111.71	6,970.94	27.15	26.44	168.15	-301.47	1,189.99	261.82	208.42	53.40	4.903		
7,200.00	7,008.99	7,211.66	7,067.99	27.55	26.83	167.70	-307.54	1,212.11	264.05	209.85	54.20	4.872		
7,300.00	7,105.69	7,311.62	7,165.05	27.95	27.22	167.25	-313.62	1,235.23	266.30	211.30	55.00	4.842		
7,400.00	7,202.39	7,411.57	7,262.10	28.35	27.62	166.81	-319.69	1,258.35	268.57	212.77	55.80	4.813		
7,500.00	7,299.08	7,511.52	7,359.15	28.75	28.01	166.38	-325.77	1,281.47	270.85	214.25	56.60	4.785		
7,600.00	7,395.78	7,611.48	7,456.20	29.15	28.40	165.95	-331.84	1,304.59	273.15	215.74	57.41	4.758		
7,700.00	7,492.48	7,711.43	7,553.26	29.56	28.79	165.53	-337.92	1,327.71	275.46	217.25	58.21	4.732		
7,800.00	7,589.18	7,811.38	7,650.31	29.96	29.19	165.12	-343.99	1,350.83	277.79	218.78	59.01	4.707		
7,900.00	7,685.98	7,910.67	7,746.71	30.36	29.58	164.69	-350.08	1,373.79	279.75	219.94	59.81	4.677		
8,000.00	7,783.18	8,000.00	7,832.63	30.75	29.93	162.61	-363.61	1,393.77	282.01	221.40	60.61	4.653	SF	
8,100.00	7,880.77	8,086.49	7,913.07	31.14	30.26	158.02	-389.59	1,411.66	287.37	226.08	61.29	4.689		
8,200.00	7,978.73	8,163.38	7,980.82	31.53	30.54	152.15	-422.85	1,426.05	299.09	237.61	61.48	4.865		
8,300.00	8,077.03	8,230.70	8,036.23	31.91	30.77	146.07	-459.35	1,437.25	320.38	259.61	60.77	5.272		
8,400.00	8,175.63	8,288.57	8,080.32	32.28	30.95	140.55	-495.82	1,445.71	353.04	293.99	59.04	5.979		
8,500.00	8,274.51	8,337.84	8,114.93	32.65	31.10	135.97	-530.30	1,452.00	397.00	340.43	56.57	7.018		
8,600.00	8,373.63	8,379.68	8,141.99	33.02	31.22	132.35	-561.85	1,456.64	450.94	397.14	53.80	8.382		
8,700.00	8,472.97	8,415.25	8,163.21	33.37	31.32	129.61	-590.18	1,460.07	513.08	462.00	51.08	10.045		
8,800.00	8,572.50	8,450.00	8,182.27	33.73	31.42	127.24	-619.10	1,462.93	581.75	532.90	48.84	11.911		
8,900.00	8,672.17	8,471.66	8,193.28	34.08	31.47	126.24	-637.69	1,464.47	655.42	608.96	46.46	14.107		
9,000.00	8,771.98	8,500.00	8,206.64	34.42	31.54	124.90	-662.61	1,466.19	733.15	688.22	44.93	16.319		
9,100.00	8,871.87	8,500.00	8,206.64	34.76	31.54	126.02	-662.61	1,466.19	814.16	771.58	42.58	19.122		
9,200.00	8,971.83	8,530.76	8,219.78	35.10	31.62	124.81	-690.38	1,467.69	897.14	855.21	41.94	21.393		
9,300.00	9,071.83	8,550.00	8,227.26	35.42	31.66	124.67	-708.09	1,468.43	982.39	941.29	41.10	23.901		
9,400.00	9,171.44	8,550.00	8,227.26	35.73	31.66	34.76	-708.09	1,468.43	1,066.70	1,027.02	39.68	26.881		
9,500.00	9,268.29	8,580.51	8,237.93	36.04	31.73	27.12	-736.66	1,469.29	1,144.71	1,105.61	39.10	29.278		
9,600.00	9,359.44	8,600.00	8,243.96	36.33	31.78	22.50	-755.19	1,469.63	1,215.34	1,177.29	38.04	31.945		
9,700.00	9,442.11	8,621.67	8,249.95	36.59	31.83	19.37	-776.01	1,469.82	1,277.18	1,240.17	37.00	34.516		
9,800.00	9,513.79	8,669.43	8,261.35	36.83	31.93	17.08	-822.38	1,470.02	1,328.51	1,291.97	36.54	36.360		
9,900.00	9,572.31	8,700.00	8,267.63	37.05	32.00	15.68	-852.30	1,470.15	1,368.38	1,332.69	35.68	38.351		
10,000.00	9,615.89	8,756.21	8,277.07	37.26	32.13	14.74	-907.70	1,470.39	1,395.71	1,360.35	35.35	39.478		
10,100.00	9,643.92	8,800.00	8,282.55	37.46	32.23	14.34	-951.15	1,470.59	1,411.11	1,376.26	34.85	40.489		
10,200.00	9,662.03	8,846.60	8,286.54	37.67	32.33	14.18	-997.57	1,470.79	1,420.48	1,385.96	34.52	41.148		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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						
Reference														Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning								
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)											
10,300.00	9,671.50	8,900.00	8,288.79	37.89	32.46	14.09	-1,050.92	1,471.03	1,425.29	1,390.90	34.39	41.443									
10,400.00	9,673.00	8,955.98	8,289.00	38.11	32.59	14.09	-1,106.90	1,471.27	1,425.87	1,391.47	34.40	41.447									
10,500.00	9,673.00	9,055.98	8,289.00	38.34	32.83	14.09	-1,206.90	1,471.72	1,425.88	1,390.96	34.91	40.840									
10,600.00	9,673.00	9,155.98	8,289.00	38.58	33.09	14.09	-1,306.90	1,472.16	1,425.88	1,390.39	35.49	40.182									
10,700.00	9,673.00	9,255.98	8,289.00	38.83	33.36	14.09	-1,406.90	1,472.60	1,425.88	1,389.77	36.12	39.480									
10,800.00	9,673.00	9,355.98	8,289.00	39.10	33.64	14.09	-1,506.89	1,473.05	1,425.88	1,389.08	36.80	38.743									
10,900.00	9,673.00	9,455.98	8,289.00	39.37	33.93	14.09	-1,606.89	1,473.49	1,425.89	1,388.34	37.54	37.979									
11,000.00	9,673.00	9,555.98	8,289.00	39.65	34.24	14.09	-1,706.89	1,473.93	1,425.89	1,387.56	38.33	37.197									
11,100.00	9,673.00	9,655.98	8,289.00	39.95	34.56	14.09	-1,806.89	1,474.38	1,425.89	1,386.72	39.17	36.402									
11,200.00	9,673.00	9,755.98	8,289.00	40.25	34.89	14.09	-1,906.89	1,474.82	1,425.89	1,385.84	40.05	35.602									
11,300.00	9,673.00	9,855.98	8,289.00	40.57	35.24	14.09	-2,006.89	1,475.26	1,425.90	1,384.92	40.97	34.801									
11,400.00	9,673.00	9,955.98	8,289.00	40.90	35.59	14.09	-2,106.89	1,475.70	1,425.90	1,383.97	41.93	34.005									
11,500.00	9,673.00	10,055.98	8,289.00	41.23	35.96	14.09	-2,206.89	1,476.15	1,425.90	1,382.97	42.93	33.217									
11,600.00	9,673.00	10,155.98	8,289.00	41.58	36.34	14.09	-2,306.89	1,476.59	1,425.90	1,381.95	43.96	32.440									
11,700.00	9,673.00	10,255.98	8,289.00	41.93	36.73	14.09	-2,406.89	1,477.03	1,425.91	1,380.89	45.01	31.677									
11,800.00	9,673.00	10,355.98	8,289.00	42.30	37.13	14.09	-2,506.88	1,477.48	1,425.91	1,379.81	46.10	30.929									
11,900.00	9,673.00	10,455.98	8,289.00	42.67	37.54	14.09	-2,606.88	1,477.92	1,425.91	1,378.70	47.22	30.199									
12,000.00	9,673.00	10,555.98	8,289.00	43.06	37.96	14.09	-2,706.88	1,478.36	1,425.91	1,377.56	48.36	29.487									
12,100.00	9,673.00	10,655.98	8,289.00	43.45	38.39	14.09	-2,806.88	1,478.81	1,425.92	1,376.40	49.52	28.795									
12,200.00	9,673.00	10,755.98	8,289.00	43.85	38.83	14.09	-2,906.88	1,479.25	1,425.92	1,375.22	50.70	28.123									
12,300.00	9,673.00	10,855.98	8,289.00	44.26	39.28	14.09	-3,006.88	1,479.69	1,425.92	1,374.01	51.91	27.470									
12,400.00	9,673.00	10,955.98	8,289.00	44.68	39.74	14.09	-3,106.88	1,480.13	1,425.92	1,372.79	53.13	26.838									
12,500.00	9,673.00	11,055.98	8,289.00	45.11	40.20	14.09	-3,206.88	1,480.58	1,425.93	1,371.56	54.37	26.226									
12,600.00	9,673.00	11,155.98	8,289.00	45.55	40.68	14.09	-3,306.88	1,481.02	1,425.93	1,370.30	55.63	25.633									
12,700.00	9,673.00	11,255.98	8,289.00	45.99	41.16	14.10	-3,406.88	1,481.46	1,425.93	1,369.03	56.90	25.060									
12,800.00	9,673.00	11,355.98	8,289.00	46.44	41.66	14.10	-3,506.88	1,481.91	1,425.93	1,367.75	58.19	24.506									
12,900.00	9,673.00	11,455.98	8,289.00	46.90	42.16	14.10	-3,606.87	1,482.35	1,425.94	1,366.45	59.49	23.971									
13,000.00	9,673.00	11,555.98	8,289.00	47.37	42.66	14.10	-3,706.87	1,482.79	1,425.94	1,365.14	60.80	23.453									
13,100.00	9,673.00	11,655.98	8,289.00	47.84	43.18	14.10	-3,806.87	1,483.24	1,425.94	1,363.82	62.12	22.954									
13,200.00	9,673.00	11,755.98	8,289.00	48.32	43.70	14.10	-3,906.87	1,483.68	1,425.94	1,362.49	63.46	22.471									
13,300.00	9,673.00	11,855.98	8,289.00	48.81	44.23	14.10	-4,006.87	1,484.12	1,425.95	1,361.14	64.80	22.004									
13,400.00	9,673.00	11,955.98	8,289.00	49.30	44.76	14.10	-4,106.87	1,484.56	1,425.95	1,359.79	66.16	21.554									
13,500.00	9,673.00	12,055.98	8,289.00	49.80	45.31	14.10	-4,206.87	1,485.01	1,425.95	1,358.43	67.52	21.118									
13,600.00	9,673.00	12,155.98	8,289.00	50.31	45.85	14.10	-4,306.87	1,485.45	1,425.96	1,357.06	68.89	20.698									
13,700.00	9,673.00	12,255.98	8,289.00	50.82	46.41	14.10	-4,406.87	1,485.89	1,425.96	1,355.68	70.27	20.291									
13,800.00	9,673.00	12,355.98	8,289.00	51.34	46.97	14.10	-4,506.87	1,486.34	1,425.96	1,354.30	71.66	19.898									
13,900.00	9,673.00	12,455.98	8,289.00	51.87	47.53	14.10	-4,606.86	1,486.78	1,425.96	1,352.90	73.06	19.518									
14,000.00	9,673.00	12,555.98	8,289.00	52.40	48.10	14.10	-4,706.86	1,487.22	1,425.97	1,351.50	74.46	19.151									
14,004.32	9,673.00	12,560.30	8,289.00	52.42	48.13	14.10	-4,711.19	1,487.24	1,425.97	1,351.44	74.52	19.135									
14,100.00	9,673.00	12,655.98	8,289.00	52.94	48.68	14.10	-4,806.86	1,487.67	1,426.02	1,350.15	75.87	18.796									
14,200.00	9,673.00	12,847.12	8,289.00	53.49	49.82	14.11	-4,996.12	1,509.07	1,426.33	1,347.65	78.68	18.129									
14,300.00	9,673.00	13,070.11	8,289.00	54.08	51.22	12.83	-5,195.93	1,605.22	1,421.72	1,339.31	82.41	17.251									
14,400.00	9,673.00	13,260.61	8,289.00	54.68	52.32	10.71	-5,329.68	1,739.78	1,413.50	1,327.55	85.94	16.447									
14,500.00	9,673.00	13,416.34	8,289.00	55.27	53.06	8.43	-5,403.83	1,876.24	1,404.12	1,315.07	89.05	15.768									
14,600.00	9,673.00	13,544.42	8,289.00	55.84	53.53	6.24	-5,437.24	1,999.64	1,395.50	1,303.86	91.64	15.228									
14,700.00	9,673.00	13,652.69	8,289.00	56.38	53.81	4.17	-5,444.82	2,107.50	1,388.79	1,295.13	93.66	14.828									
14,800.00	9,673.00	13,747.12	8,289.00	56.88	53.95	2.16	-5,435.74	2,201.40	1,384.57	1,289.44	95.13	14.554									
14,900.00	9,673.00	13,831.82	8,289.00	57.31	54.01	0.18	-5,415.31	2,283.53	1,383.01	1,286.91	96.10	14.391									
14,909.10	9,673.00	13,839.15	8,289.00	57.34	54.01	0.00	-5,413.01	2,290.49	1,383.00	1,286.83	96.17	14.381									
15,000.00	9,673.00	13,909.56	8,289.00	57.68	54.01	-1.81	-5,386.70	2,355.75	1,384.03	1,287.37	96.67	14.317									
15,100.00	9,673.00	13,982.20	8,289.00	57.96	53.96	-3.80	-5,351.83	2,419.44	1,387.38	1,290.45	96.93	14.313									
15,200.00	9,673.00	14,050.00	8,289.00	58.17	53.88	-5.75	-5,312.66	2,474.73	1,392.67	1,295.69	96.98	14.360									

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Tooface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,300.00	9,673.00	14,117.04	8,289.00	58.28	53.76	-7.72	-5,268.12	2,524.79	1,399.46	1,302.46	96.99	14.429		
15,400.00	9,673.00	14,180.82	8,289.00	58.32	53.63	-9.58	-5,220.87	2,567.59	1,407.27	1,310.26	97.00	14.508		
15,500.00	9,673.00	14,250.00	8,289.00	58.28	53.47	-11.45	-5,164.87	2,608.14	1,415.64	1,318.47	97.17	14.568		
15,600.00	9,673.00	14,300.00	8,289.00	58.17	53.33	-12.90	-5,121.71	2,633.36	1,424.03	1,326.69	97.34	14.629		
15,700.00	9,673.00	14,363.33	8,289.00	58.00	53.16	-14.39	-5,064.32	2,660.08	1,432.06	1,334.25	97.81	14.641		
15,800.00	9,673.00	14,422.23	8,289.00	57.78	52.99	-15.62	-5,008.72	2,679.44	1,439.33	1,340.87	98.47	14.617		
15,900.00	9,673.00	14,480.53	8,289.00	57.54	52.81	-16.62	-4,952.11	2,693.23	1,445.51	1,346.18	99.33	14.553		
16,000.00	9,673.00	14,541.65	8,289.00	57.27	52.63	-17.39	-4,891.62	2,701.86	1,450.30	1,349.93	100.37	14.449		
16,100.00	9,673.00	14,623.66	8,289.00	56.99	52.40	-17.79	-4,809.89	2,708.68	1,452.47	1,350.87	101.59	14.297		
16,200.00	9,673.00	14,705.84	8,289.00	56.72	52.16	-17.72	-4,727.80	2,712.22	1,451.91	1,348.92	103.00	14.097		
16,300.00	9,673.00	14,793.72	8,289.00	56.46	51.92	-17.69	-4,639.92	2,712.61	1,451.63	1,347.25	104.38	13.908		
16,400.00	9,673.00	14,893.72	8,289.00	56.21	51.66	-17.69	-4,539.92	2,712.17	1,451.63	1,345.92	105.71	13.733		
16,500.00	9,673.00	14,993.72	8,289.00	55.97	51.40	-17.69	-4,439.92	2,711.73	1,451.63	1,344.59	107.04	13.561		
16,600.00	9,673.00	15,093.72	8,289.00	55.73	51.15	-17.69	-4,339.92	2,711.29	1,451.63	1,343.25	108.38	13.394		
16,700.00	9,673.00	15,193.72	8,289.00	55.50	50.91	-17.69	-4,239.93	2,710.86	1,451.63	1,341.90	109.73	13.229		
16,800.00	9,673.00	15,293.72	8,289.00	55.28	50.68	-17.69	-4,139.93	2,710.42	1,451.63	1,340.54	111.08	13.068		
16,900.00	9,673.00	15,393.72	8,289.00	55.06	50.45	-17.69	-4,039.93	2,709.98	1,451.62	1,339.18	112.44	12.910		
17,000.00	9,673.00	15,493.72	8,289.00	54.86	50.24	-17.69	-3,939.93	2,709.54	1,451.62	1,337.82	113.81	12.755		
17,100.00	9,673.00	15,593.72	8,289.00	54.66	50.03	-17.69	-3,839.93	2,709.10	1,451.62	1,336.45	115.17	12.604		
17,200.00	9,673.00	15,693.72	8,289.00	54.47	49.84	-17.69	-3,739.93	2,708.66	1,451.62	1,335.07	116.55	12.455		
17,300.00	9,673.00	15,793.72	8,289.00	54.28	49.65	-17.69	-3,639.93	2,708.22	1,451.62	1,333.69	117.93	12.310		
17,400.00	9,673.00	15,893.72	8,289.00	54.11	49.47	-17.69	-3,539.93	2,707.78	1,451.62	1,332.31	119.31	12.167		
17,500.00	9,673.00	15,993.72	8,289.00	53.94	49.30	-17.69	-3,439.93	2,707.34	1,451.62	1,330.92	120.70	12.027		
17,600.00	9,673.00	16,093.72	8,289.00	53.78	49.14	-17.69	-3,339.93	2,706.91	1,451.62	1,329.53	122.09	11.890		
17,700.00	9,673.00	16,193.72	8,289.00	53.63	48.99	-17.69	-3,239.93	2,706.47	1,451.62	1,328.13	123.49	11.755		
17,800.00	9,673.00	16,293.72	8,289.00	53.49	48.85	-17.69	-3,139.94	2,706.03	1,451.61	1,326.73	124.89	11.623		
17,900.00	9,673.00	16,393.72	8,289.00	53.35	48.72	-17.69	-3,039.94	2,705.59	1,451.61	1,325.32	126.29	11.494		
18,000.00	9,673.00	16,493.72	8,289.00	53.23	48.60	-17.69	-2,939.94	2,705.15	1,451.61	1,323.91	127.70	11.368		
18,100.00	9,673.00	16,593.72	8,289.00	53.11	48.49	-17.69	-2,839.94	2,704.71	1,451.61	1,322.50	129.11	11.243		
18,200.00	9,673.00	16,693.72	8,289.00	53.00	48.39	-17.69	-2,739.94	2,704.27	1,451.61	1,321.09	130.52	11.121		
18,300.00	9,673.00	16,793.72	8,289.00	52.91	48.30	-17.69	-2,639.94	2,703.83	1,451.61	1,319.67	131.94	11.002		
18,400.00	9,673.00	16,893.72	8,289.00	52.82	48.22	-17.69	-2,539.94	2,703.40	1,451.61	1,318.24	133.36	10.885		
18,500.00	9,673.00	16,993.72	8,289.00	52.74	48.15	-17.69	-2,439.94	2,702.96	1,451.61	1,316.82	134.79	10.769		
18,600.00	9,673.00	17,093.72	8,289.00	52.67	48.09	-17.69	-2,339.94	2,702.52	1,451.61	1,315.39	136.22	10.657		
18,700.00	9,673.00	17,193.72	8,289.00	52.62	48.05	-17.69	-2,239.94	2,702.08	1,451.61	1,313.96	137.65	10.546		
18,800.00	9,673.00	17,293.72	8,289.00	52.57	48.02	-17.69	-2,139.95	2,701.64	1,451.60	1,312.52	139.08	10.437		
18,900.00	9,673.00	17,393.72	8,289.00	52.54	48.00	-17.69	-2,039.95	2,701.20	1,451.60	1,311.08	140.52	10.330		
19,000.00	9,673.00	17,493.72	8,289.00	52.51	47.99	-17.69	-1,939.95	2,700.76	1,451.60	1,309.64	141.96	10.226		
19,100.00	9,673.00	17,593.72	8,289.00	52.50	47.99	-17.68	-1,839.95	2,700.32	1,451.60	1,308.20	143.40	10.123		
19,200.00	9,673.00	17,693.72	8,289.00	52.50	48.01	-17.68	-1,739.95	2,699.89	1,451.60	1,306.76	144.84	10.022		
19,300.00	9,673.00	17,793.72	8,289.00	52.51	48.04	-17.68	-1,639.95	2,699.45	1,451.60	1,305.31	146.29	9.923		
19,400.00	9,673.00	17,893.72	8,289.00	52.53	48.08	-17.68	-1,539.95	2,699.01	1,451.60	1,303.86	147.74	9.825		
19,500.00	9,673.00	17,993.72	8,289.00	52.57	48.13	-17.68	-1,439.95	2,698.57	1,451.60	1,302.40	149.19	9.730		
19,600.00	9,673.00	18,093.72	8,289.00	52.62	48.20	-17.68	-1,339.95	2,698.13	1,451.60	1,300.95	150.65	9.636		
19,700.00	9,673.00	18,193.72	8,289.00	52.68	48.29	-17.68	-1,239.95	2,697.69	1,451.59	1,299.49	152.10	9.544		
19,800.00	9,673.00	18,293.72	8,289.00	52.75	48.38	-17.68	-1,139.95	2,697.25	1,451.59	1,298.03	153.56	9.453		
19,900.00	9,673.00	18,393.72	8,289.00	52.84	48.49	-17.68	-1,039.96	2,696.81	1,451.59	1,296.57	155.02	9.364		
20,000.00	9,673.00	18,493.72	8,289.00	52.94	48.62	-17.68	-939.96	2,696.38	1,451.59	1,295.11	156.48	9.276		
20,100.00	9,673.00	18,593.72	8,289.00	53.06	48.76	-17.68	-839.96	2,695.94	1,451.59	1,293.64	157.95	9.190		
20,200.00	9,673.00	18,693.72	8,289.00	53.19	48.91	-17.68	-739.96	2,695.50	1,451.59	1,292.18	159.41	9.106		
20,300.00	9,673.00	18,793.72	8,289.00	53.33	49.07	-17.68	-639.96	2,695.06	1,451.59	1,290.71	160.88	9.023		
20,400.00	9,673.00	18,893.72	8,289.00	53.49	49.25	-17.68	-539.96	2,694.62	1,451.59	1,289.24	162.35	8.941		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation Factor	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				Separation (usft)
20,500.00	9,673.00	18,993.72	8,289.00	53.66	49.45	-17.68	-439.96	2,694.18	1,451.59	1,287.76	163.82	8.861		
20,600.00	9,673.00	19,093.72	8,289.00	53.84	49.90	-17.68	-339.96	2,693.74	1,451.58	1,286.63	164.95	8.800		
20,607.39	9,673.00	19,101.11	8,289.00	54.04	50.04	-17.68	-332.58	2,693.71	1,451.58	1,286.58	165.00	8.797		
20,610.93	9,673.00	19,101.33	8,289.00	54.93	50.05	-17.68	-332.35	2,693.71	1,451.59	1,286.55	165.03	8.796		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-90.66	-0.23	-19.99	19.99						
100.00	100.00	100.00	100.00	0.28	0.28	-90.66	-0.23	-19.99	19.99	19.44	0.55	36.213			
200.00	200.00	200.00	200.00	0.63	0.63	-90.66	-0.23	-19.99	19.99	18.72	1.27	15.754			
300.00	300.00	300.00	300.00	0.99	0.99	-90.66	-0.23	-19.99	19.99	18.01	1.99	10.066			
400.00	400.00	400.00	400.00	1.35	1.35	-90.66	-0.23	-19.99	19.99	17.29	2.70	7.396			
500.00	500.00	500.00	500.00	1.71	1.71	-90.66	-0.23	-19.99	19.99	16.57	3.42	5.846			
536.26	536.25	536.25	536.25	1.83	1.84	90.00	-0.23	-19.99	19.99	16.32	3.67	5.442	CC		
600.00	599.98	599.98	599.98	2.05	2.07	94.33	-0.23	-19.99	20.05	15.93	4.12	4.867	ES		
700.00	699.84	699.84	699.84	2.39	2.43	108.61	-0.23	-19.99	21.10	16.29	4.81	4.387			
800.00	799.49	799.49	799.49	2.73	2.78	126.83	-0.23	-19.99	25.01	19.50	5.51	4.541			
900.00	899.11	899.11	899.11	3.07	3.14	139.80	-0.23	-19.99	31.04	24.83	6.21	4.998			
1,000.00	998.73	998.73	998.73	3.42	3.50	148.28	-0.23	-19.99	38.12	31.21	6.92	5.512			
1,100.00	1,098.36	1,098.36	1,098.36	3.77	3.85	174.77	-0.23	-19.99	46.26	38.63	7.62	6.067			
1,200.00	1,197.92	1,197.92	1,197.92	4.12	4.21	-166.31	-0.23	-19.99	55.53	47.19	8.33	6.663			
1,300.00	1,297.29	1,297.29	1,297.29	4.48	4.57	-155.79	-0.23	-19.99	66.01	56.97	9.04	7.299			
1,400.00	1,396.36	1,396.36	1,396.36	4.84	4.92	-151.19	-0.23	-19.99	78.16	68.40	9.75	8.013			
1,500.00	1,495.00	1,495.00	1,495.00	5.20	5.28	-150.05	-0.23	-19.99	92.48	82.02	10.46	8.838			
1,600.00	1,593.09	1,593.09	1,593.09	5.56	5.63	-150.73	-0.23	-19.99	109.44	98.27	11.17	9.795			
1,700.00	1,690.51	1,690.51	1,690.51	5.92	5.98	-152.26	-0.23	-19.99	129.36	117.48	11.88	10.887			
1,800.00	1,787.29	1,787.29	1,787.29	6.28	6.32	-155.50	-0.23	-19.99	152.06	139.47	12.59	12.079			
1,900.00	1,883.98	1,883.98	1,883.98	6.65	6.67	-158.94	-0.23	-19.99	175.68	162.39	13.29	13.215			
2,000.00	1,980.68	1,980.68	1,980.68	7.02	7.02	-161.56	-0.23	-19.99	199.76	185.76	14.00	14.267			
2,100.00	2,077.38	2,083.86	2,083.84	7.39	7.38	-163.69	-0.58	-18.81	223.03	208.30	14.74	15.135			
2,200.00	2,174.08	2,190.24	2,190.10	7.77	7.74	-165.35	-2.03	-13.94	243.02	227.55	15.47	15.714			
2,300.00	2,270.78	2,298.15	2,297.62	8.15	8.11	-166.67	-4.64	-5.13	259.49	243.30	16.19	16.300			
2,400.00	2,367.48	2,407.32	2,405.95	8.53	8.48	-167.76	-8.46	7.72	272.33	255.42	16.90	16.111			
2,500.00	2,464.17	2,517.45	2,514.64	8.92	8.86	-168.71	-13.49	24.69	281.44	263.84	17.61	15.985			
2,600.00	2,560.87	2,628.21	2,623.18	9.30	9.25	-169.56	-19.76	45.77	286.78	268.49	18.30	15.674			
2,700.00	2,657.57	2,732.89	2,725.06	9.69	9.61	-170.30	-26.61	68.86	288.94	269.93	19.01	15.202			
2,800.00	2,754.27	2,832.81	2,822.21	10.08	9.97	-171.00	-33.26	91.25	290.78	271.03	19.74	14.728			
2,900.00	2,850.97	2,932.73	2,919.36	10.47	10.33	-171.69	-39.90	113.64	292.66	272.17	20.49	14.286			
3,000.00	2,947.66	3,032.65	3,016.52	10.86	10.69	-172.37	-46.55	136.02	294.59	273.35	21.23	13.875			
3,100.00	3,044.36	3,132.57	3,113.67	11.25	11.05	-173.04	-53.20	158.41	296.55	274.57	21.98	13.492			
3,200.00	3,141.06	3,232.49	3,210.82	11.64	11.41	-173.71	-59.85	180.80	298.56	275.83	22.73	13.133			
3,300.00	3,237.76	3,332.41	3,307.97	12.03	11.78	-174.36	-66.49	203.19	300.61	277.12	23.49	12.797			
3,400.00	3,334.46	3,432.33	3,405.13	12.43	12.15	-175.00	-73.14	225.57	302.69	278.44	24.25	12.483			
3,500.00	3,431.16	3,532.25	3,502.28	12.82	12.52	-175.64	-79.79	247.96	304.81	279.80	25.01	12.187			
3,600.00	3,527.85	3,632.17	3,599.43	13.21	12.89	-176.27	-86.43	270.35	306.97	281.20	25.77	11.910			
3,700.00	3,624.55	3,732.09	3,696.59	13.61	13.26	-176.89	-93.08	292.74	309.17	282.63	26.54	11.649			
3,800.00	3,721.25	3,832.01	3,793.74	14.00	13.63	-177.49	-99.73	315.12	311.40	284.09	27.31	11.403			
3,900.00	3,817.95	3,931.93	3,890.89	14.40	14.01	-178.10	-106.37	337.51	313.67	285.59	28.08	11.170			
4,000.00	3,914.65	4,031.85	3,988.05	14.79	14.38	-178.69	-113.02	359.90	315.97	287.12	28.85	10.951			
4,100.00	4,011.35	4,131.78	4,085.20	15.19	14.76	-179.27	-119.67	382.29	318.30	288.68	29.63	10.744			
4,200.00	4,108.04	4,231.70	4,182.35	15.59	15.14	-179.85	-126.32	404.67	320.67	290.27	30.40	10.548			
4,300.00	4,204.74	4,331.62	4,279.51	15.98	15.52	-179.59	-132.96	427.06	323.07	291.89	31.18	10.362			
4,400.00	4,301.44	4,431.54	4,376.66	16.38	15.90	-179.03	-139.61	449.45	325.50	293.54	31.96	10.185			
4,500.00	4,398.14	4,531.46	4,473.81	16.78	16.28	-178.48	-146.26	471.84	327.96	295.22	32.74	10.018			
4,600.00	4,494.84	4,631.38	4,570.97	17.17	16.66	-177.94	-152.90	494.22	330.44	296.93	33.52	9.859			
4,700.00	4,591.53	4,731.30	4,668.12	17.57	17.04	-177.40	-159.55	516.61	332.96	298.66	34.30	9.707			
4,800.00	4,688.23	4,831.22	4,765.27	17.97	17.42	-176.88	-166.20	539.00	335.51	300.43	35.08	9.563			
4,900.00	4,784.93	4,931.14	4,862.43	18.37	17.81	-176.36	-172.84	561.39	338.09	302.22	35.87	9.426			
5,000.00	4,881.63	5,031.06	4,959.58	18.77	18.19	-175.85	-179.49	583.77	340.69	304.03	36.65	9.295			

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,978.33	5,130.98	5,056.73	19.16	18.57	175.35	-186.14	606.16	343.32	305.88	37.44	9.170		
5,200.00	5,075.03	5,230.90	5,153.88	19.56	18.96	174.86	-192.79	628.55	345.97	307.74	38.23	9.051		
5,300.00	5,171.72	5,330.82	5,251.04	19.96	19.34	174.37	-199.43	650.94	348.65	309.64	39.01	8.937		
5,400.00	5,268.42	5,430.74	5,348.19	20.36	19.73	173.89	-206.08	673.32	351.35	311.55	39.80	8.828		
5,500.00	5,365.12	5,530.66	5,445.34	20.76	20.11	173.42	-212.73	695.71	354.08	313.49	40.59	8.723		
5,600.00	5,461.82	5,630.58	5,542.50	21.16	20.50	172.95	-219.37	718.10	356.84	315.45	41.38	8.623		
5,700.00	5,558.52	5,730.50	5,639.65	21.56	20.88	172.50	-226.02	740.49	359.61	317.44	42.17	8.527		
5,800.00	5,655.21	5,830.42	5,736.80	21.96	21.27	172.05	-232.67	762.87	362.41	319.45	42.96	8.435		
5,900.00	5,751.91	5,930.35	5,833.96	22.35	21.66	171.60	-239.31	785.26	365.23	321.48	43.75	8.347		
6,000.00	5,848.61	6,030.27	5,931.11	22.75	22.05	171.17	-245.96	807.65	368.07	323.52	44.55	8.263		
6,100.00	5,945.31	6,130.19	6,028.26	23.15	22.43	170.74	-252.61	830.04	370.93	325.59	45.34	8.181		
6,200.00	6,042.01	6,230.11	6,125.42	23.55	22.82	170.31	-259.26	852.42	373.82	327.68	46.13	8.103		
6,300.00	6,138.71	6,330.03	6,222.57	23.95	23.21	169.90	-265.90	874.81	376.72	329.79	46.93	8.028		
6,400.00	6,235.40	6,429.95	6,319.72	24.35	23.60	169.48	-272.55	897.20	379.64	331.92	47.72	7.956		
6,500.00	6,332.10	6,529.87	6,416.88	24.75	23.98	169.08	-279.20	919.59	382.59	334.07	48.52	7.886		
6,600.00	6,428.80	6,629.79	6,514.03	25.15	24.37	168.68	-285.84	941.97	385.55	336.24	49.31	7.819		
6,700.00	6,525.50	6,729.71	6,611.18	25.55	24.76	168.29	-292.49	964.36	388.53	338.42	50.11	7.754		
6,800.00	6,622.20	6,829.63	6,708.33	25.95	25.15	167.90	-299.14	986.75	391.52	340.62	50.90	7.692		
6,900.00	6,718.89	6,929.55	6,805.49	26.35	25.54	167.52	-305.78	1,009.14	394.54	342.84	51.70	7.632		
7,000.00	6,815.59	7,029.47	6,902.64	26.75	25.93	167.15	-312.43	1,031.52	397.57	345.08	52.49	7.574		
7,100.00	6,912.29	7,129.39	6,999.79	27.15	26.32	166.78	-319.08	1,053.91	400.62	347.33	53.29	7.518		
7,200.00	7,008.99	7,229.31	7,096.95	27.55	26.71	166.42	-325.73	1,076.30	403.68	349.59	54.09	7.463		
7,300.00	7,105.69	7,329.23	7,186.80	27.95	27.07	166.12	-331.70	1,096.43	407.38	352.50	54.88	7.424		
7,400.00	7,202.39	7,429.15	7,273.09	28.35	27.41	165.97	-336.69	1,113.23	413.77	358.15	55.62	7.439		
7,500.00	7,299.08	7,529.07	7,362.15	28.75	27.75	165.96	-341.02	1,127.81	423.02	366.67	56.34	7.508		
7,600.00	7,395.78	7,628.99	7,445.80	29.15	28.06	166.08	-344.34	1,139.01	435.06	378.09	56.97	7.637		
7,700.00	7,492.48	7,728.91	7,531.73	29.56	28.37	166.32	-347.02	1,148.01	449.92	392.34	57.57	7.815		
7,800.00	7,589.18	7,828.83	7,617.07	29.96	28.67	166.66	-348.94	1,154.48	467.54	409.42	58.12	8.044		
7,900.00	7,685.88	7,928.75	7,701.66	30.36	28.97	167.11	-350.12	1,158.46	487.54	428.92	58.62	8.317		
8,000.00	7,783.18	8,028.67	7,785.58	30.75	29.25	167.60	-350.59	1,160.05	508.69	449.62	59.07	8.612		
8,100.00	7,880.77	8,128.59	7,880.77	31.14	29.57	168.13	-350.60	1,160.08	529.98	470.26	59.71	8.875		
8,200.00	7,978.73	8,228.51	7,978.73	31.53	29.89	168.60	-350.60	1,160.08	549.67	489.26	60.40	9.100		
8,300.00	8,077.03	8,328.43	8,077.03	31.91	30.21	169.00	-350.60	1,160.08	567.70	506.61	61.09	9.292		
8,400.00	8,175.63	8,428.35	8,175.63	32.28	30.54	169.35	-350.60	1,160.08	584.07	522.28	61.78	9.453		
8,500.00	8,274.51	8,528.27	8,274.51	32.65	30.86	169.64	-350.60	1,160.08	598.75	536.28	62.47	9.585		
8,600.00	8,373.63	8,628.19	8,373.63	33.02	31.19	169.88	-350.60	1,160.08	611.75	548.59	63.16	9.686		
8,700.00	8,472.97	8,728.11	8,472.97	33.37	31.52	170.09	-350.60	1,160.08	623.05	559.21	63.84	9.760		
8,800.00	8,572.50	8,828.03	8,572.50	33.73	31.85	170.25	-350.60	1,160.08	632.64	568.13	64.52	9.806		
8,900.00	8,672.17	8,927.95	8,672.17	34.08	32.18	170.39	-350.60	1,160.08	640.53	575.33	65.19	9.825		
9,000.00	8,771.98	9,027.87	8,771.98	34.42	32.52	170.49	-350.60	1,160.08	646.70	580.83	65.86	9.819		
9,100.00	8,871.87	9,127.79	8,871.87	34.76	32.85	170.56	-350.60	1,160.08	651.15	584.61	66.53	9.787		
9,200.00	8,971.83	9,227.71	8,971.83	35.10	33.19	170.61	-350.60	1,160.08	653.88	586.68	67.20	9.731		
9,300.00	9,071.83	9,327.63	9,071.83	35.42	33.52	170.63	-350.60	1,160.08	654.89	587.04	67.85	9.652		
9,388.65	9,160.19	9,416.55	9,160.19	35.70	33.82	90.18	-350.60	1,160.08	654.95	586.54	68.41	9.574		
9,400.00	9,171.44	9,311.01	9,171.44	35.73	33.86	90.20	-350.60	1,160.08	654.88	586.40	68.48	9.563		
9,500.00	9,268.29	9,407.86	9,268.29	36.04	34.18	92.21	-350.60	1,160.08	655.42	586.34	69.08	9.488		
9,600.00	9,359.44	9,507.17	9,367.41	36.33	34.51	95.14	-355.13	1,160.10	657.95	588.18	69.78	9.430		
9,700.00	9,442.11	9,615.76	9,473.21	36.59	34.86	98.13	-378.85	1,160.20	662.51	591.84	70.67	9.375		
9,800.00	9,513.79	9,733.93	9,580.99	36.83	35.22	101.00	-426.78	1,160.41	668.62	597.00	71.62	9.336		
9,900.00	9,572.31	9,863.09	9,684.81	37.05	35.57	103.64	-503.16	1,160.75	675.49	603.02	72.47	9.321		
10,000.00	9,615.89	10,003.85	9,775.36	37.26	35.89	105.86	-610.46	1,161.21	682.00	608.89	73.11	9.328		
10,100.00	9,643.92	10,155.18	9,840.46	37.46	36.19	107.45	-746.59	1,161.81	686.71	613.11	73.60	9.331		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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														Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning						
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)									
10,200.00	9,662.03	10,284.00	9,870.40	37.67	36.43	107.90	-871.79	1,162.35	688.23	614.13	74.10	9.288							
10,300.00	9,671.50	10,406.81	9,885.33	37.89	36.67	108.12	-993.63	1,162.89	689.07	614.46	74.62	9.235							
10,400.00	9,673.00	10,521.48	9,888.00	38.11	36.88	108.17	-1,108.23	1,163.39	689.30	614.16	75.13	9.174							
10,500.00	9,673.00	10,621.48	9,888.00	38.34	37.09	108.17	-1,208.23	1,163.83	689.31	613.69	75.62	9.115							
10,600.00	9,673.00	10,721.48	9,888.00	38.58	37.30	108.17	-1,308.23	1,164.27	689.32	613.18	76.14	9.053							
10,700.00	9,673.00	10,821.48	9,888.00	38.83	37.52	108.17	-1,408.23	1,164.71	689.34	612.65	76.69	8.989							
10,800.00	9,673.00	10,921.48	9,888.00	39.10	37.76	108.17	-1,508.23	1,165.14	689.35	612.09	77.26	8.922							
10,900.00	9,673.00	11,021.48	9,888.00	39.37	38.01	108.17	-1,608.23	1,165.58	689.37	611.50	77.86	8.854							
11,000.00	9,673.00	11,121.48	9,888.00	39.65	38.28	108.17	-1,708.23	1,166.02	689.38	610.89	78.49	8.783							
11,100.00	9,673.00	11,221.48	9,888.00	39.95	38.55	108.17	-1,808.23	1,166.46	689.39	610.26	79.14	8.711							
11,200.00	9,673.00	11,321.48	9,888.00	40.25	38.84	108.17	-1,908.23	1,166.90	689.41	609.60	79.81	8.638							
11,300.00	9,673.00	11,421.48	9,888.00	40.57	39.14	108.17	-2,008.22	1,167.34	689.42	608.91	80.51	8.563							
11,400.00	9,673.00	11,521.48	9,888.00	40.90	39.45	108.17	-2,108.22	1,167.78	689.44	608.21	81.23	8.487							
11,500.00	9,673.00	11,621.48	9,888.00	41.23	39.77	108.17	-2,208.22	1,168.22	689.45	607.48	81.97	8.411							
11,600.00	9,673.00	11,721.48	9,888.00	41.58	40.10	108.17	-2,308.22	1,168.65	689.47	606.73	82.74	8.333							
11,700.00	9,673.00	11,821.48	9,888.00	41.93	40.45	108.17	-2,408.22	1,169.09	689.48	605.96	83.52	8.255							
11,800.00	9,673.00	11,921.48	9,888.00	42.30	40.80	108.17	-2,508.22	1,169.53	689.49	605.16	84.33	8.176							
11,900.00	9,673.00	12,021.48	9,888.00	42.67	41.17	108.17	-2,608.22	1,169.97	689.51	604.35	85.16	8.097							
12,000.00	9,673.00	12,121.48	9,888.00	43.06	41.54	108.17	-2,708.22	1,170.41	689.52	603.52	86.00	8.017							
12,100.00	9,673.00	12,221.48	9,888.00	43.45	41.93	108.17	-2,808.22	1,170.85	689.54	602.67	86.87	7.938							
12,200.00	9,673.00	12,321.48	9,888.00	43.85	42.33	108.17	-2,908.22	1,171.29	689.55	601.80	87.75	7.858							
12,300.00	9,673.00	12,421.48	9,888.00	44.26	42.73	108.17	-3,008.22	1,171.72	689.57	600.91	88.65	7.778							
12,400.00	9,673.00	12,521.48	9,888.00	44.68	43.15	108.17	-3,108.21	1,172.16	689.58	600.01	89.57	7.699							
12,500.00	9,673.00	12,621.48	9,888.00	45.11	43.57	108.17	-3,208.21	1,172.60	689.59	599.09	90.51	7.619							
12,600.00	9,673.00	12,721.48	9,888.00	45.55	44.00	108.17	-3,308.21	1,173.04	689.61	598.15	91.46	7.540							
12,700.00	9,673.00	12,821.48	9,888.00	45.99	44.45	108.17	-3,408.21	1,173.48	689.62	597.20	92.43	7.461							
12,800.00	9,673.00	12,921.48	9,888.00	46.44	44.90	108.17	-3,508.21	1,173.92	689.64	596.23	93.41	7.383							
12,900.00	9,673.00	13,021.48	9,888.00	46.90	45.35	108.16	-3,608.21	1,174.36	689.65	595.25	94.40	7.305							
13,000.00	9,673.00	13,121.48	9,888.00	47.37	45.82	108.16	-3,708.21	1,174.79	689.66	594.25	95.42	7.228							
13,100.00	9,673.00	13,221.48	9,888.00	47.84	46.29	108.16	-3,808.21	1,175.23	689.68	593.24	96.44	7.151							
13,200.00	9,673.00	13,321.48	9,888.00	48.32	46.78	108.16	-3,908.21	1,175.67	689.69	592.21	97.48	7.075							
13,300.00	9,673.00	13,421.48	9,888.00	48.81	47.27	108.16	-4,008.21	1,176.11	689.71	591.18	98.53	7.000							
13,400.00	9,673.00	13,521.48	9,888.00	49.30	47.76	108.16	-4,108.20	1,176.55	689.72	590.13	99.60	6.925							
13,500.00	9,673.00	13,621.48	9,888.00	49.80	48.26	108.16	-4,208.20	1,176.99	689.74	589.06	100.67	6.851							
13,600.00	9,673.00	13,721.48	9,888.00	50.31	48.77	108.16	-4,308.20	1,177.43	689.75	587.99	101.76	6.778							
13,700.00	9,673.00	13,821.48	9,888.00	50.82	49.29	108.16	-4,408.20	1,177.87	689.76	586.91	102.86	6.706							
13,800.00	9,673.00	13,921.48	9,888.00	51.34	49.81	108.16	-4,508.20	1,178.30	689.78	585.81	103.97	6.634							
13,900.00	9,673.00	14,021.48	9,888.00	51.87	50.34	108.16	-4,608.20	1,178.74	689.79	584.70	105.09	6.564							
14,000.00	9,673.00	14,121.48	9,888.00	52.40	50.87	108.16	-4,708.20	1,179.18	689.81	583.58	106.22	6.494							
14,100.00	9,673.00	15,150.00	9,888.00	52.94	56.02	154.16	-5,442.97	1,749.81	678.33	596.97	81.35	8.338							
14,200.00	9,673.00	15,290.14	9,888.00	53.49	56.30	165.80	-5,446.59	1,889.64	584.65	508.91	75.74	7.719							
14,300.00	9,673.00	15,344.32	9,888.00	54.08	56.37	160.78	-5,439.99	1,943.40	493.86	419.19	74.67	6.614							
14,400.00	9,673.00	15,395.74	9,888.00	54.68	56.41	158.80	-5,429.66	1,993.75	407.99	333.32	74.67	5.464							
14,500.00	9,673.00	15,446.40	9,888.00	55.27	56.42	160.00	-5,415.66	2,042.43	330.24	253.75	76.48	4.318							
14,600.00	9,673.00	15,496.74	9,888.00	55.84	56.42	164.40	-5,398.08	2,089.59	266.17	184.65	81.53	3.265							
14,700.00	9,673.00	15,546.92	9,888.00	56.38	56.40	172.11	-5,377.01	2,135.12	224.92	134.42	90.50	2.485							
14,775.11	9,673.00	15,584.55	9,888.00	56.75	56.37	-180.00	-5,358.97	2,168.13	215.00	117.52	97.48	2.206							
14,800.00	9,673.00	15,597.01	9,888.00	56.88	56.36	-177.05	-5,352.58	2,178.83	216.07	116.83	99.24	2.177	SF						
14,900.00	9,673.00	15,650.00	9,888.00	57.31	56.30	-163.59	-5,323.19	2,222.90	239.29	137.03	102.26	2.340							
15,000.00	9,673.00	15,700.00	9,888.00	57.68	56.23	-150.80	-5,292.28	2,262.19	283.13	181.21	101.93	2.778							
15,100.00	9,673.00	15,750.00	9,888.00	57.96	56.14	-139.73	-5,258.48	2,299.02	336.28	235.18	101.11	3.326							
15,200.00	9,673.00	15,800.00	9,888.00	58.17	56.05	-131.01	-5,221.97	2,333.17	391.91	291.03	100.88	3.885							

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,300.00	9,673.00	15,850.00	9,888.00	58.28	55.94	-124.46	-5,182.98	2,364.45	446.30	344.97	101.33	4.404		
15,400.00	9,673.00	15,900.00	9,888.00	58.32	55.82	-119.60	-5,141.72	2,392.67	497.38	395.07	102.31	4.862		
15,500.00	9,673.00	15,950.00	9,888.00	58.28	55.69	-116.02	-5,098.43	2,417.67	543.87	440.22	103.64	5.248		
15,600.00	9,673.00	16,000.00	9,888.00	58.17	55.56	-113.37	-5,053.37	2,439.31	584.92	479.72	105.20	5.560		
15,700.00	9,673.00	16,050.00	9,888.00	58.00	55.42	-111.42	-5,006.80	2,457.46	619.95	513.08	106.87	5.801		
15,800.00	9,673.00	16,100.00	9,888.00	57.78	55.29	-110.01	-4,958.98	2,472.02	648.54	539.97	108.57	5.974		
15,900.00	9,673.00	16,150.00	9,888.00	57.54	55.15	-109.02	-4,910.19	2,482.90	670.36	560.14	110.22	6.082		
16,000.00	9,673.00	16,200.00	9,888.00	57.27	55.00	-108.40	-4,860.71	2,490.04	685.22	573.43	111.79	6.129		
16,100.00	9,673.00	16,258.77	9,888.00	56.99	54.84	-108.09	-4,802.09	2,494.23	692.57	579.62	112.95	6.132		
16,200.00	9,673.00	16,340.08	9,888.00	56.72	54.62	-108.13	-4,720.86	2,497.50	691.12	577.74	113.38	6.096		
16,300.00	9,673.00	16,421.44	9,888.00	56.46	54.41	-108.17	-4,639.51	2,498.47	689.58	575.80	113.78	6.061		
16,338.04	9,673.00	16,458.15	9,888.00	56.37	54.32	-108.17	-4,602.79	2,498.32	689.57	575.81	113.76	6.062		
16,400.00	9,673.00	16,520.11	9,888.00	56.21	54.16	-108.17	-4,540.84	2,498.05	689.57	575.90	113.67	6.066		
16,500.00	9,673.00	16,620.11	9,888.00	55.97	53.92	-108.17	-4,440.84	2,497.61	689.56	576.01	113.55	6.073		
16,600.00	9,673.00	16,720.11	9,888.00	55.73	53.68	-108.17	-4,340.84	2,497.18	689.55	576.11	113.44	6.079		
16,700.00	9,673.00	16,820.11	9,888.00	55.50	53.45	-108.17	-4,240.84	2,496.74	689.55	576.19	113.36	6.083		
16,800.00	9,673.00	16,920.11	9,888.00	55.28	53.23	-108.17	-4,140.84	2,496.31	689.54	576.25	113.29	6.086		
16,900.00	9,673.00	17,020.11	9,888.00	55.06	53.02	-108.17	-4,040.84	2,495.87	689.53	576.28	113.25	6.089		
17,000.00	9,673.00	17,120.11	9,888.00	54.86	52.81	-108.17	-3,940.84	2,495.44	689.53	576.30	113.23	6.090		
17,100.00	9,673.00	17,220.11	9,888.00	54.66	52.62	-108.17	-3,840.84	2,495.00	689.52	576.29	113.23	6.090		
17,200.00	9,673.00	17,320.11	9,888.00	54.47	52.43	-108.17	-3,740.84	2,494.57	689.51	576.26	113.25	6.089		
17,300.00	9,673.00	17,420.11	9,888.00	54.28	52.26	-108.17	-3,640.84	2,494.13	689.50	576.22	113.29	6.086		
17,400.00	9,673.00	17,520.11	9,888.00	54.11	52.09	-108.17	-3,540.85	2,493.70	689.50	576.15	113.35	6.083		
17,500.00	9,673.00	17,620.11	9,888.00	53.94	51.93	-108.17	-3,440.85	2,493.26	689.49	576.06	113.43	6.078		
17,600.00	9,673.00	17,720.11	9,888.00	53.78	51.78	-108.17	-3,340.85	2,492.83	689.48	575.95	113.53	6.073		
17,700.00	9,673.00	17,820.11	9,888.00	53.63	51.63	-108.17	-3,240.85	2,492.39	689.48	575.82	113.66	6.066		
17,800.00	9,673.00	17,920.11	9,888.00	53.49	51.50	-108.17	-3,140.85	2,491.96	689.47	575.67	113.80	6.059		
17,900.00	9,673.00	18,020.11	9,888.00	53.35	51.38	-108.17	-3,040.85	2,491.53	689.46	575.50	113.97	6.050		
18,000.00	9,673.00	18,120.11	9,888.00	53.23	51.27	-108.17	-2,940.85	2,491.09	689.45	575.30	114.15	6.040		
18,100.00	9,673.00	18,220.11	9,888.00	53.11	51.16	-108.17	-2,840.85	2,490.66	689.45	575.09	114.36	6.029		
18,200.00	9,673.00	18,320.11	9,888.00	53.00	51.07	-108.17	-2,740.85	2,490.22	689.44	574.86	114.58	6.017		
18,300.00	9,673.00	18,420.11	9,888.00	52.91	50.99	-108.17	-2,640.85	2,489.79	689.43	574.61	114.83	6.004		
18,400.00	9,673.00	18,520.11	9,888.00	52.82	50.92	-108.17	-2,540.85	2,489.35	689.43	574.33	115.09	5.990		
18,500.00	9,673.00	18,620.11	9,888.00	52.74	50.85	-108.17	-2,440.86	2,488.92	689.42	574.04	115.38	5.975		
18,600.00	9,673.00	18,720.11	9,888.00	52.67	50.80	-108.17	-2,340.86	2,488.48	689.41	573.73	115.68	5.959		
18,700.00	9,673.00	18,820.11	9,888.00	52.62	50.76	-108.17	-2,240.86	2,488.05	689.40	573.40	116.01	5.943		
18,800.00	9,673.00	18,920.11	9,888.00	52.57	50.73	-108.17	-2,140.86	2,487.61	689.40	573.05	116.35	5.925		
18,900.00	9,673.00	19,020.11	9,888.00	52.54	50.72	-108.17	-2,040.86	2,487.18	689.39	572.67	116.71	5.907		
19,000.00	9,673.00	19,120.11	9,888.00	52.51	50.71	-108.17	-1,940.86	2,486.74	689.38	572.29	117.10	5.887		
19,100.00	9,673.00	19,220.11	9,888.00	52.50	50.72	-108.17	-1,840.86	2,486.31	689.38	571.88	117.50	5.867		
19,200.00	9,673.00	19,320.11	9,888.00	52.50	50.74	-108.17	-1,740.86	2,485.87	689.37	571.45	117.92	5.846		
19,300.00	9,673.00	19,420.11	9,888.00	52.51	50.77	-108.17	-1,640.86	2,485.44	689.36	571.01	118.36	5.824		
19,400.00	9,673.00	19,520.11	9,888.00	52.53	50.81	-108.17	-1,540.86	2,485.00	689.35	570.54	118.81	5.802		
19,500.00	9,673.00	19,620.11	9,888.00	52.57	50.86	-108.17	-1,440.86	2,484.57	689.35	570.06	119.29	5.779		
19,600.00	9,673.00	19,720.11	9,888.00	52.62	50.93	-108.17	-1,340.87	2,484.13	689.34	569.56	119.78	5.755		
19,700.00	9,673.00	19,820.11	9,888.00	52.68	51.01	-108.17	-1,240.87	2,483.70	689.33	569.04	120.29	5.731		
19,800.00	9,673.00	19,920.11	9,888.00	52.75	51.10	-108.17	-1,140.87	2,483.26	689.33	568.51	120.82	5.706		
19,900.00	9,673.00	20,020.11	9,888.00	52.84	51.21	-108.17	-1,040.87	2,482.83	689.32	567.96	121.36	5.680		
20,000.00	9,673.00	20,120.11	9,888.00	52.94	51.33	-108.17	-940.87	2,482.39	689.31	567.39	121.92	5.654		
20,100.00	9,673.00	20,220.11	9,888.00	53.06	51.46	-108.17	-840.87	2,481.96	689.30	566.80	122.50	5.627		
20,200.00	9,673.00	20,320.11	9,888.00	53.19	51.61	-108.17	-740.87	2,481.53	689.30	566.20	123.09	5.600		
20,300.00	9,673.00	20,420.11	9,888.00	53.33	51.77	-108.17	-640.87	2,481.09	689.29	565.59	123.70	5.572		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,400.00	9,673.00	20,520.11	9,888.00	53.49	51.94	-108.17	-540.87	2,480.66	689.28	564.95	124.33	5.544		
20,500.00	9,673.00	20,620.11	9,888.00	53.66	52.12	-108.18	-440.87	2,480.22	689.28	564.30	124.97	5.515		
20,600.00	9,673.00	20,720.11	9,888.00	53.84	52.32	-108.18	-340.88	2,479.79	689.27	563.64	125.63	5.487		
20,606.07	9,673.00	20,726.09	9,888.00	53.96	52.33	-108.18	-334.90	2,479.76	689.27	563.61	125.66	5.485		
20,610.93	9,673.00	20,726.09	9,888.00	54.93	52.33	-108.18	-334.90	2,479.76	689.29	563.61	125.68	5.485		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1													Offset Site Error:	0.00 usft		
Survey Program: 0-MWD+IFR1+MS													Offset Well Error:	0.00 usft		
Reference													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	89.37	0.22	20.00	20.03							
100.00	100.00	99.00	99.00	0.28	0.27	89.37	0.22	20.00	20.00	19.45	0.55	36.413				
200.00	200.00	199.00	199.00	0.63	0.63	89.37	0.22	20.00	20.00	18.74	1.27	15.806				
300.00	300.00	299.00	299.00	0.99	0.99	89.37	0.22	20.00	20.00	18.02	1.98	10.090				
400.00	400.00	399.00	399.00	1.35	1.35	89.37	0.22	20.00	20.00	17.30	2.70	7.410				
500.00	500.00	499.00	499.00	1.71	1.71	89.37	0.22	20.00	20.00	16.58	3.42	5.855	CC			
503.22	503.22	502.22	502.22	1.72	1.72	-90.64	0.22	20.00	20.00	16.56	3.44	5.816				
600.00	599.98	598.87	598.85	2.05	2.06	-100.38	1.93	20.00	20.33	16.22	4.11	4.942	ES			
700.00	699.84	698.02	697.87	2.39	2.42	-124.87	7.06	20.00	24.46	19.65	4.80	5.091				
800.00	799.49	796.32	795.83	2.73	2.78	-146.37	15.16	20.00	36.50	31.00	5.50	6.634				
900.00	899.11	894.81	893.94	3.07	3.13	-157.02	23.74	20.00	51.91	45.71	6.20	8.377				
1,000.00	998.73	993.29	992.04	3.42	3.49	-162.72	32.33	20.00	68.26	61.37	6.89	9.901				
1,100.00	1,098.36	1,092.69	1,091.12	3.77	3.84	-143.43	40.21	21.23	83.86	76.26	7.60	11.035				
1,200.00	1,197.92	1,192.83	1,190.98	4.12	4.20	-126.06	46.28	25.40	97.14	88.83	8.31	11.691				
1,300.00	1,297.29	1,293.56	1,291.37	4.48	4.55	-113.96	50.47	32.56	107.99	98.97	9.02	11.972				
1,400.00	1,396.36	1,394.79	1,392.05	4.84	4.91	-106.20	52.76	42.76	116.34	106.61	9.73	11.955				
1,500.00	1,495.00	1,496.41	1,492.80	5.20	5.26	-101.28	53.11	55.99	122.16	111.72	10.44	11.696				
1,600.00	1,593.09	1,598.33	1,593.39	5.56	5.62	-98.22	51.49	72.28	125.45	114.29	11.16	11.241				
1,700.00	1,690.51	1,700.43	1,693.58	5.92	5.98	-96.44	47.90	91.59	126.18	114.31	11.88	10.625				
1,800.00	1,787.29	1,802.40	1,792.93	6.28	6.34	-96.72	42.36	113.83	124.53	111.94	12.59	9.888				
1,900.00	1,883.98	1,902.34	1,890.00	6.65	6.70	-97.73	36.14	136.82	122.11	108.79	13.32	9.169				
2,000.00	1,980.68	2,002.29	1,987.07	7.02	7.07	-98.78	29.93	159.81	119.73	105.68	14.05	8.522				
2,100.00	2,077.38	2,102.24	2,084.14	7.39	7.44	-99.87	23.71	182.80	117.40	102.61	14.79	7.940				
2,200.00	2,174.08	2,202.18	2,181.21	7.77	7.81	-101.01	17.50	205.78	115.11	99.58	15.53	7.413				
2,300.00	2,270.78	2,302.13	2,278.27	8.15	8.18	-102.20	11.28	228.77	112.86	96.59	16.27	6.936				
2,400.00	2,367.48	2,402.08	2,375.34	8.53	8.56	-103.43	5.06	251.76	110.67	93.65	17.02	6.502				
2,500.00	2,464.17	2,502.03	2,472.41	8.92	8.93	-104.71	-1.15	274.75	108.53	90.76	17.77	6.107				
2,600.00	2,560.87	2,601.97	2,569.48	9.30	9.31	-106.04	-7.37	297.74	106.44	87.92	18.52	5.747				
2,700.00	2,657.57	2,701.92	2,666.55	9.69	9.69	-107.42	-13.58	320.72	104.42	85.14	19.28	5.417				
2,800.00	2,754.27	2,801.87	2,763.62	10.08	10.07	-108.86	-19.80	343.71	102.46	82.43	20.03	5.115				
2,900.00	2,850.97	2,901.81	2,860.69	10.47	10.46	-110.35	-26.01	366.70	100.56	79.77	20.79	4.837				
3,000.00	2,947.66	3,001.76	2,957.76	10.86	10.84	-111.90	-32.23	389.69	98.74	77.19	21.55	4.583				
3,100.00	3,044.36	3,101.71	3,054.82	11.25	11.22	-113.51	-38.44	412.67	96.99	74.69	22.31	4.348				
3,200.00	3,141.06	3,201.66	3,151.89	11.64	11.61	-115.17	-44.66	435.66	95.32	72.26	23.07	4.133				
3,300.00	3,237.76	3,301.60	3,248.96	12.03	11.99	-116.89	-50.88	458.65	93.74	69.91	23.83	3.934				
3,400.00	3,334.46	3,401.55	3,346.03	12.43	12.38	-118.67	-57.09	481.64	92.24	67.65	24.59	3.752				
3,500.00	3,431.16	3,501.50	3,443.10	12.82	12.77	-120.51	-63.31	504.63	90.83	65.48	25.35	3.583				
3,600.00	3,527.85	3,601.44	3,540.17	13.21	13.16	-122.40	-69.52	527.61	89.52	63.41	26.11	3.429				
3,700.00	3,624.55	3,701.39	3,637.24	13.61	13.55	-124.34	-75.74	550.60	88.31	61.44	26.87	3.286				
3,800.00	3,721.25	3,801.34	3,734.31	14.00	13.93	-126.34	-81.95	573.59	87.20	59.57	27.64	3.155				
3,900.00	3,817.95	3,901.29	3,831.37	14.40	14.32	-128.38	-88.17	596.58	86.21	57.80	28.40	3.035				
4,000.00	3,914.65	4,001.23	3,928.44	14.79	14.71	-130.47	-94.39	619.57	85.32	56.15	29.17	2.925				
4,100.00	4,011.35	4,101.18	4,025.51	15.19	15.10	-132.61	-100.60	642.55	84.55	54.62	29.94	2.824				
4,200.00	4,108.04	4,201.13	4,122.58	15.59	15.49	-134.77	-106.82	665.54	83.90	53.20	30.71	2.732				
4,300.00	4,204.74	4,301.07	4,219.65	15.98	15.88	-136.97	-113.03	688.53	83.37	51.90	31.48	2.649				
4,400.00	4,301.44	4,401.02	4,316.72	16.38	16.27	-139.19	-119.25	711.52	82.97	50.72	32.25	2.573				
4,500.00	4,398.14	4,500.97	4,413.79	16.78	16.67	-141.43	-125.46	734.51	82.69	49.67	33.03	2.504				
4,600.00	4,494.84	4,600.91	4,510.86	17.17	17.06	-143.69	-131.68	757.49	82.54	48.74	33.80	2.442				
4,667.12	4,559.74	4,668.00	4,576.01	17.44	17.32	-145.20	-135.85	772.92	82.51	48.19	34.33	2.404				
4,700.00	4,591.53	4,700.86	4,607.92	17.57	17.45	-145.94	-137.89	780.48	82.52	47.94	34.59	2.386				
4,800.00	4,688.23	4,800.81	4,704.99	17.97	17.84	-148.20	-144.11	803.47	82.63	47.26	35.37	2.336				
4,900.00	4,784.93	4,900.76	4,802.06	18.37	18.23	-150.44	-150.33	826.46	82.86	46.71	36.16	2.292				

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error:	0.00 usft
Reference				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.00	4,881.63	5,000.70	4,899.13	18.77	18.63	-152.67	-156.54	849.44	83.22	46.28	36.94	2.253		
5,100.00	4,978.33	5,100.65	4,996.20	19.16	19.02	-154.88	-162.76	872.43	83.71	45.97	37.74	2.218		
5,200.00	5,075.03	5,200.60	5,093.27	19.56	19.41	-157.06	-168.97	895.42	84.32	45.78	38.53	2.188		
5,300.00	5,171.72	5,300.54	5,190.34	19.96	19.80	-159.20	-175.19	918.41	85.04	45.72	39.33	2.162		
5,400.00	5,268.42	5,400.49	5,287.41	20.36	20.20	-161.31	-181.40	941.40	85.89	45.76	40.13	2.140		
5,500.00	5,365.12	5,500.44	5,384.47	20.76	20.59	-163.37	-187.62	964.38	86.85	45.92	40.93	2.122		
5,600.00	5,461.82	5,600.39	5,481.54	21.16	20.98	-165.38	-193.84	987.37	87.92	46.18	41.73	2.107		
5,700.00	5,558.52	5,700.33	5,578.61	21.56	21.38	-167.35	-200.05	1,010.36	89.09	46.55	42.54	2.094		
5,800.00	5,655.21	5,800.28	5,675.68	21.96	21.77	-169.26	-206.27	1,033.35	90.37	47.02	43.35	2.085		
5,900.00	5,751.91	5,900.23	5,772.75	22.35	22.16	-171.11	-212.48	1,056.34	91.75	47.59	44.16	2.078		
6,000.00	5,848.61	6,000.17	5,869.82	22.75	22.56	-172.91	-218.70	1,079.32	93.21	48.25	44.97	2.073		
6,100.00	5,945.31	6,100.12	5,966.89	23.15	22.95	-174.65	-224.91	1,102.31	94.77	48.99	45.78	2.070		
6,200.00	6,042.01	6,200.07	6,063.96	23.55	23.35	-176.33	-231.13	1,125.30	96.41	49.82	46.59	2.069	SF	
6,300.00	6,138.71	6,300.02	6,161.02	23.95	23.74	-177.96	-237.34	1,148.29	98.13	50.73	47.40	2.070		
6,400.00	6,235.40	6,399.96	6,258.09	24.35	24.14	-179.53	-243.56	1,171.28	99.93	51.72	48.22	2.073		
6,500.00	6,332.10	6,499.91	6,355.16	24.75	24.53	178.96	-249.78	1,194.26	101.80	52.77	49.03	2.076		
6,600.00	6,428.80	6,599.86	6,452.23	25.15	24.92	177.51	-255.99	1,217.25	103.74	53.90	49.84	2.081		
6,700.00	6,525.50	6,699.80	6,549.30	25.55	25.32	176.10	-262.21	1,240.24	105.74	55.09	50.66	2.087		
6,800.00	6,622.20	6,799.75	6,646.37	25.95	25.71	174.76	-268.42	1,263.23	107.81	56.34	51.47	2.095		
6,900.00	6,718.89	6,899.70	6,743.44	26.35	26.11	173.46	-274.64	1,286.22	109.93	57.64	52.29	2.102		
7,000.00	6,815.59	6,999.64	6,840.51	26.75	26.50	172.21	-280.85	1,309.20	112.11	59.01	53.10	2.111		
7,100.00	6,912.29	7,099.59	6,937.57	27.15	26.90	171.01	-287.07	1,332.19	114.33	60.42	53.91	2.121		
7,200.00	7,008.99	7,199.54	7,034.64	27.55	27.29	169.86	-293.29	1,355.18	116.61	61.88	54.73	2.131		
7,300.00	7,105.69	7,299.49	7,131.71	27.95	27.69	168.75	-299.50	1,378.17	118.93	63.39	55.54	2.141		
7,400.00	7,202.39	7,399.43	7,228.78	28.35	28.08	167.68	-305.72	1,401.15	121.29	64.94	56.36	2.152		
7,500.00	7,299.08	7,499.38	7,325.85	28.75	28.48	166.66	-311.93	1,424.14	123.70	66.53	57.17	2.164		
7,600.00	7,395.78	7,599.33	7,422.92	29.15	28.87	165.67	-318.15	1,447.13	126.14	68.16	57.98	2.175		
7,700.00	7,492.48	7,699.27	7,519.99	29.56	29.27	164.72	-324.36	1,470.12	128.62	69.82	58.80	2.188		
7,800.00	7,589.18	7,795.17	7,613.48	29.96	29.64	164.11	-329.93	1,490.70	132.64	73.05	59.59	2.226		
7,900.00	7,685.98	7,890.75	7,707.32	30.36	30.01	164.00	-334.66	1,508.19	139.39	79.06	60.33	2.310		
8,000.00	7,783.18	7,985.99	7,801.38	30.75	30.36	164.22	-338.56	1,522.61	147.62	86.62	60.99	2.420		
8,100.00	7,880.77	8,080.84	7,895.49	31.14	30.71	164.69	-341.63	1,533.96	157.24	95.65	61.59	2.553		
8,200.00	7,978.73	8,175.22	7,989.47	31.53	31.04	165.35	-343.87	1,542.26	168.26	106.14	62.12	2.708		
8,300.00	8,077.03	8,269.07	8,083.16	31.91	31.37	166.15	-345.30	1,547.55	180.68	118.09	62.59	2.887		
8,400.00	8,175.63	8,362.32	8,176.37	32.28	31.68	167.04	-345.93	1,549.87	194.49	131.52	62.98	3.088		
8,500.00	8,274.51	8,457.83	8,271.72	32.65	31.98	166.82	-350.03	1,550.01	209.21	145.73	63.48	3.296		
8,600.00	8,373.63	8,551.55	8,363.46	33.02	32.27	162.74	-368.73	1,550.09	224.14	160.25	63.89	3.508		
8,700.00	8,472.97	8,637.85	8,444.19	33.37	32.53	156.21	-398.96	1,550.22	242.24	178.53	63.72	3.802		
8,800.00	8,572.50	8,714.08	8,511.05	33.73	32.75	148.96	-435.48	1,550.38	267.52	204.92	62.60	4.274		
8,900.00	8,672.17	8,779.61	8,564.20	34.08	32.93	142.25	-473.73	1,550.55	302.75	242.27	60.48	5.006		
9,000.00	8,771.98	8,835.06	8,605.54	34.42	33.08	136.67	-510.67	1,550.71	348.58	290.87	57.71	6.040		
9,100.00	8,871.87	8,881.71	8,637.41	34.76	33.19	132.32	-544.72	1,550.86	404.07	349.31	54.76	7.379		
9,200.00	8,971.83	8,920.95	8,661.99	35.10	33.29	129.06	-575.28	1,550.99	467.58	415.58	52.00	8.992		
9,300.00	9,071.83	8,950.00	8,678.82	35.42	33.36	127.08	-598.96	1,551.09	537.49	488.17	49.32	10.899		
9,400.00	9,171.44	8,985.29	8,697.61	35.73	33.44	37.20	-628.83	1,551.22	608.96	561.51	47.45	12.834		
9,500.00	9,268.29	9,018.91	8,713.78	36.04	33.51	30.57	-658.31	1,551.35	675.65	630.24	45.41	14.880		
9,600.00	9,359.44	9,050.00	8,727.16	36.33	33.58	26.01	-686.36	1,551.48	735.91	692.70	43.22	17.028		
9,700.00	9,442.11	9,100.00	8,745.44	36.59	33.70	22.46	-732.88	1,551.68	788.65	746.75	41.91	18.819		
9,800.00	9,513.79	9,139.47	8,756.95	36.83	33.78	20.17	-770.62	1,551.84	832.92	792.78	40.14	20.753		
9,900.00	9,572.31	9,179.07	8,766.54	37.05	33.87	18.62	-809.04	1,552.01	867.46	828.96	38.50	22.529		
10,000.00	9,615.89	9,234.98	8,777.80	37.26	33.99	17.59	-863.80	1,552.25	890.90	853.35	37.55	23.724		
10,100.00	9,643.92	9,300.00	8,787.52	37.46	34.14	17.12	-928.08	1,552.53	903.41	866.45	36.96	24.441		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,200.00	9,662.03	9,348.39	8,792.38	37.67	34.25	16.94	-976.22	1,552.74	910.79	874.64	36.15	25.194		
10,300.00	9,671.50	9,400.00	8,795.32	37.89	34.37	16.85	-1,027.75	1,552.97	914.65	878.97	35.68	25.636		
10,400.00	9,673.00	9,478.79	8,796.00	38.11	34.55	16.83	-1,106.53	1,553.32	915.20	879.42	35.78	25.576		
10,500.00	9,673.00	9,578.79	8,796.00	38.34	34.79	16.83	-1,206.53	1,553.76	915.20	878.97	36.23	25.263		
10,600.00	9,673.00	9,678.79	8,796.00	38.58	35.05	16.83	-1,306.53	1,554.20	915.21	878.47	36.73	24.916		
10,700.00	9,673.00	9,778.79	8,796.00	38.83	35.31	16.83	-1,406.53	1,554.64	915.21	877.91	37.30	24.539		
10,800.00	9,673.00	9,878.79	8,796.00	39.10	35.59	16.83	-1,506.53	1,555.08	915.21	877.30	37.92	24.138		
10,900.00	9,673.00	9,978.79	8,796.00	39.37	35.88	16.83	-1,606.53	1,555.52	915.22	876.63	38.59	23.717		
11,000.00	9,673.00	10,078.79	8,796.00	39.65	36.18	16.83	-1,706.52	1,555.97	915.22	875.91	39.31	23.280		
11,100.00	9,673.00	10,178.79	8,796.00	39.95	36.49	16.83	-1,806.52	1,556.41	915.22	875.14	40.09	22.831		
11,200.00	9,673.00	10,278.79	8,796.00	40.25	36.81	16.84	-1,906.52	1,556.85	915.23	874.32	40.90	22.375		
11,300.00	9,673.00	10,378.79	8,796.00	40.57	37.15	16.84	-2,006.52	1,557.29	915.23	873.47	41.77	21.914		
11,400.00	9,673.00	10,478.79	8,796.00	40.90	37.49	16.84	-2,106.52	1,557.73	915.23	872.57	42.67	21.451		
11,500.00	9,673.00	10,578.79	8,796.00	41.23	37.85	16.84	-2,206.52	1,558.17	915.24	871.63	43.60	20.990		
11,600.00	9,673.00	10,678.79	8,796.00	41.58	38.22	16.84	-2,306.52	1,558.61	915.24	870.66	44.58	20.532		
11,700.00	9,673.00	10,778.79	8,796.00	41.93	38.59	16.84	-2,406.52	1,559.06	915.24	869.66	45.58	20.079		
11,800.00	9,673.00	10,878.79	8,796.00	42.30	38.98	16.84	-2,506.52	1,559.50	915.25	868.63	46.62	19.632		
11,900.00	9,673.00	10,978.79	8,796.00	42.67	39.38	16.84	-2,606.52	1,559.94	915.25	867.57	47.69	19.193		
12,000.00	9,673.00	11,078.79	8,796.00	43.06	39.79	16.84	-2,706.51	1,560.38	915.26	866.48	48.78	18.763		
12,100.00	9,673.00	11,178.79	8,796.00	43.45	40.21	16.84	-2,806.51	1,560.82	915.26	865.36	49.90	18.343		
12,200.00	9,673.00	11,278.79	8,796.00	43.85	40.63	16.84	-2,906.51	1,561.26	915.26	864.22	51.04	17.933		
12,300.00	9,673.00	11,378.79	8,796.00	44.26	41.07	16.84	-3,006.51	1,561.70	915.27	863.07	52.20	17.534		
12,400.00	9,673.00	11,478.79	8,796.00	44.68	41.52	16.84	-3,106.51	1,562.14	915.27	861.89	53.38	17.145		
12,500.00	9,673.00	11,578.79	8,796.00	45.11	41.97	16.85	-3,206.51	1,562.59	915.27	860.69	54.59	16.767		
12,600.00	9,673.00	11,678.79	8,796.00	45.55	42.43	16.85	-3,306.51	1,563.03	915.28	859.47	55.81	16.400		
12,700.00	9,673.00	11,778.79	8,796.00	45.99	42.90	16.85	-3,406.51	1,563.47	915.28	858.23	57.05	16.045		
12,800.00	9,673.00	11,878.79	8,796.00	46.44	43.38	16.85	-3,506.51	1,563.91	915.28	856.99	58.30	15.700		
12,900.00	9,673.00	11,978.79	8,796.00	46.90	43.87	16.85	-3,606.51	1,564.35	915.29	855.72	59.57	15.366		
13,000.00	9,673.00	12,078.79	8,796.00	47.37	44.36	16.85	-3,706.50	1,564.79	915.29	854.44	60.85	15.042		
13,100.00	9,673.00	12,178.79	8,796.00	47.84	44.86	16.85	-3,806.50	1,565.23	915.29	853.15	62.14	14.729		
13,200.00	9,673.00	12,278.79	8,796.00	48.32	45.37	16.85	-3,906.50	1,565.67	915.30	851.85	63.45	14.426		
13,300.00	9,673.00	12,378.79	8,796.00	48.81	45.88	16.85	-4,006.50	1,566.12	915.30	850.53	64.77	14.132		
13,400.00	9,673.00	12,478.79	8,796.00	49.30	46.40	16.85	-4,106.50	1,566.56	915.31	849.21	66.10	13.848		
13,500.00	9,673.00	12,578.79	8,796.00	49.80	46.93	16.85	-4,206.50	1,567.00	915.31	847.87	67.44	13.573		
13,600.00	9,673.00	12,678.79	8,796.00	50.31	47.46	16.85	-4,306.50	1,567.44	915.31	846.53	68.78	13.307		
13,700.00	9,673.00	12,778.79	8,796.00	50.82	48.00	16.85	-4,406.50	1,567.88	915.32	845.17	70.14	13.049		
13,800.00	9,673.00	12,878.79	8,796.00	51.34	48.55	16.85	-4,506.50	1,568.32	915.32	843.81	71.51	12.800		
13,900.00	9,673.00	12,978.79	8,796.00	51.87	49.10	16.86	-4,606.50	1,568.76	915.32	842.44	72.88	12.559		
14,000.00	9,673.00	13,078.79	8,796.00	52.40	49.66	16.86	-4,706.49	1,569.20	915.33	841.06	74.26	12.325		
14,004.27	9,673.00	13,083.06	8,796.00	52.42	49.68	16.86	-4,710.77	1,569.22	915.33	841.00	74.32	12.316		
14,100.00	9,673.00	13,178.79	8,796.00	52.94	50.22	16.86	-4,806.49	1,569.65	915.39	839.74	75.65	12.100		
14,200.00	9,673.00	13,332.97	8,796.00	53.49	51.11	17.05	-4,959.77	1,582.80	916.28	838.19	78.09	11.734		
14,300.00	9,673.00	13,508.33	8,796.00	54.08	52.19	16.29	-5,123.96	1,642.66	913.58	832.34	81.24	11.245		
14,400.00	9,673.00	13,672.84	8,796.00	54.68	53.17	14.62	-5,256.79	1,738.89	907.62	823.19	84.43	10.750		
14,500.00	9,673.00	13,821.62	8,796.00	55.27	53.98	12.35	-5,351.06	1,853.52	899.80	812.26	87.54	10.278		
14,600.00	9,673.00	13,954.00	8,796.00	55.84	54.58	9.79	-5,409.57	1,971.97	891.67	801.20	90.47	9.856		
14,700.00	9,673.00	14,071.75	8,796.00	56.38	54.99	7.10	-5,439.20	2,085.75	884.53	791.51	93.03	9.508		
14,800.00	9,673.00	14,177.45	8,796.00	56.88	55.26	4.37	-5,446.84	2,191.04	879.29	784.24	95.05	9.251		
14,900.00	9,673.00	14,273.57	8,796.00	57.31	55.42	1.62	-5,437.99	2,286.66	876.46	780.02	96.43	9.089		
14,959.21	9,673.00	14,326.83	8,796.00	57.53	55.46	0.00	-5,426.67	2,338.68	876.00	779.04	96.96	9.035		
15,000.00	9,673.00	14,362.19	8,796.00	57.68	55.48	-1.12	-5,416.68	2,372.60	876.21	779.01	97.20	9.015		
15,100.00	9,673.00	14,444.96	8,796.00	57.96	55.48	-3.83	-5,385.79	2,449.31	878.47	781.04	97.43	9.016		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,200.00	9,673.00	14,523.14	8,796.00	58.17	55.42	-6.48	-5,347.36	2,517.34	882.96	785.68	97.28	9.077		
15,300.00	9,673.00	14,600.00	8,796.00	58.28	55.33	-9.11	-5,301.45	2,578.92	889.24	792.28	96.96	9.171		
15,400.00	9,673.00	14,669.44	8,796.00	58.32	55.21	-11.49	-5,253.63	2,629.22	896.84	800.34	96.50	9.294		
15,500.00	9,673.00	14,738.91	8,796.00	58.28	55.06	-13.76	-5,200.42	2,673.81	905.22	809.03	96.19	9.410		
15,600.00	9,673.00	14,800.00	8,796.00	58.17	54.92	-15.70	-5,149.70	2,707.83	913.90	817.84	96.06	9.514		
15,700.00	9,673.00	14,872.83	8,796.00	58.00	54.73	-17.64	-5,085.20	2,741.55	922.28	825.98	96.30	9.577		
15,800.00	9,673.00	14,937.97	8,796.00	57.78	54.54	-19.19	-5,024.47	2,765.03	930.01	833.21	96.80	9.607		
15,900.00	9,673.00	15,000.00	8,796.00	57.54	54.37	-20.44	-4,964.64	2,781.29	936.69	839.07	97.62	9.595		
16,000.00	9,673.00	15,065.91	8,796.00	57.27	54.18	-21.42	-4,899.61	2,791.84	941.99	843.30	98.68	9.546		
16,100.00	9,673.00	15,141.32	8,796.00	56.99	53.96	-22.07	-4,824.36	2,796.42	945.37	845.48	99.89	9.465		
16,200.00	9,673.00	15,230.26	8,796.00	56.72	53.72	-22.10	-4,735.44	2,798.43	945.45	844.25	101.21	9.342		
16,300.00	9,673.00	15,326.19	8,796.00	56.46	53.46	-22.09	-4,639.51	2,798.21	945.38	842.90	102.48	9.225		
16,317.30	9,673.00	15,343.48	8,796.00	56.42	53.42	-22.09	-4,622.22	2,798.13	945.38	842.69	102.69	9.206		
16,400.00	9,673.00	15,426.19	8,796.00	56.21	53.21	-22.09	-4,539.51	2,797.78	945.37	841.67	103.71	9.116		
16,500.00	9,673.00	15,526.19	8,796.00	55.97	52.96	-22.09	-4,439.52	2,797.35	945.37	840.43	104.94	9.008		
16,600.00	9,673.00	15,626.19	8,796.00	55.73	52.71	-22.08	-4,339.52	2,796.92	945.36	839.18	106.19	8.903		
16,700.00	9,673.00	15,726.19	8,796.00	55.50	52.48	-22.08	-4,239.52	2,796.49	945.36	837.92	107.44	8.799		
16,800.00	9,673.00	15,826.19	8,796.00	55.28	52.26	-22.08	-4,139.52	2,796.06	945.35	836.65	108.70	8.697		
16,900.00	9,673.00	15,926.19	8,796.00	55.06	52.04	-22.08	-4,039.52	2,795.63	945.35	835.38	109.97	8.596		
17,000.00	9,673.00	16,026.19	8,796.00	54.86	51.83	-22.08	-3,939.52	2,795.20	945.34	834.10	111.25	8.498		
17,100.00	9,673.00	16,126.19	8,796.00	54.66	51.63	-22.08	-3,839.52	2,794.77	945.34	832.81	112.53	8.401		
17,200.00	9,673.00	16,226.19	8,796.00	54.47	51.44	-22.08	-3,739.52	2,794.34	945.33	831.51	113.82	8.305		
17,300.00	9,673.00	16,326.19	8,796.00	54.28	51.26	-22.08	-3,639.52	2,793.91	945.33	830.21	115.12	8.212		
17,400.00	9,673.00	16,426.19	8,796.00	54.11	51.08	-22.08	-3,539.52	2,793.48	945.33	828.90	116.42	8.120		
17,500.00	9,673.00	16,526.19	8,796.00	53.94	50.92	-22.08	-3,439.52	2,793.05	945.32	827.59	117.73	8.029		
17,600.00	9,673.00	16,626.19	8,796.00	53.78	50.76	-22.08	-3,339.53	2,792.62	945.32	826.27	119.05	7.941		
17,700.00	9,673.00	16,726.19	8,796.00	53.63	50.62	-22.08	-3,239.53	2,792.19	945.31	824.94	120.37	7.853		
17,800.00	9,673.00	16,826.19	8,796.00	53.49	50.48	-22.08	-3,139.53	2,791.76	945.31	823.61	121.70	7.768		
17,900.00	9,673.00	16,926.19	8,796.00	53.35	50.35	-22.08	-3,039.53	2,791.33	945.30	822.27	123.03	7.683		
18,000.00	9,673.00	17,026.19	8,796.00	53.23	50.24	-22.07	-2,939.53	2,790.90	945.30	820.92	124.37	7.601		
18,100.00	9,673.00	17,126.19	8,796.00	53.11	50.13	-22.07	-2,839.53	2,790.47	945.29	819.58	125.72	7.519		
18,200.00	9,673.00	17,226.19	8,796.00	53.00	50.03	-22.07	-2,739.53	2,790.04	945.29	818.22	127.07	7.439		
18,300.00	9,673.00	17,326.19	8,796.00	52.91	49.94	-22.07	-2,639.53	2,789.61	945.28	816.86	128.42	7.361		
18,400.00	9,673.00	17,426.19	8,796.00	52.82	49.87	-22.07	-2,539.53	2,789.18	945.28	815.50	129.78	7.284		
18,500.00	9,673.00	17,526.19	8,796.00	52.74	49.80	-22.07	-2,439.53	2,788.75	945.27	814.13	131.14	7.208		
18,600.00	9,673.00	17,626.19	8,796.00	52.67	49.75	-22.07	-2,339.54	2,788.32	945.27	812.76	132.51	7.134		
18,700.00	9,673.00	17,726.19	8,796.00	52.62	49.71	-22.07	-2,239.54	2,787.89	945.26	811.38	133.88	7.060		
18,800.00	9,673.00	17,826.19	8,796.00	52.57	49.67	-22.07	-2,139.54	2,787.46	945.26	810.00	135.26	6.988		
18,900.00	9,673.00	17,926.19	8,796.00	52.54	49.65	-22.07	-2,039.54	2,787.03	945.25	808.61	136.64	6.918		
19,000.00	9,673.00	18,026.19	8,796.00	52.51	49.65	-22.07	-1,939.54	2,786.60	945.25	807.23	138.02	6.848		
19,100.00	9,673.00	18,126.19	8,796.00	52.50	49.65	-22.07	-1,839.54	2,786.17	945.25	805.83	139.41	6.780		
19,200.00	9,673.00	18,226.19	8,796.00	52.50	49.67	-22.07	-1,739.54	2,785.74	945.24	804.44	140.80	6.713		
19,300.00	9,673.00	18,326.19	8,796.00	52.51	49.70	-22.07	-1,639.54	2,785.31	945.24	803.04	142.20	6.647		
19,400.00	9,673.00	18,426.19	8,796.00	52.53	49.74	-22.07	-1,539.54	2,784.88	945.23	801.63	143.60	6.582		
19,500.00	9,673.00	18,526.19	8,796.00	52.57	49.79	-22.06	-1,439.54	2,784.45	945.23	800.22	145.00	6.519		
19,600.00	9,673.00	18,626.19	8,796.00	52.62	49.86	-22.06	-1,339.54	2,784.02	945.22	798.81	146.41	6.456		
19,700.00	9,673.00	18,726.19	8,796.00	52.68	49.94	-22.06	-1,239.55	2,783.59	945.22	797.40	147.82	6.395		
19,800.00	9,673.00	18,826.19	8,796.00	52.75	50.04	-22.06	-1,139.55	2,783.16	945.21	795.98	149.23	6.334		
19,900.00	9,673.00	18,926.19	8,796.00	52.84	50.15	-22.06	-1,039.55	2,782.73	945.21	794.56	150.64	6.274		
20,000.00	9,673.00	19,026.19	8,796.00	52.94	50.27	-22.06	-939.55	2,782.30	945.20	793.14	152.06	6.216		
20,100.00	9,673.00	19,126.19	8,796.00	53.06	50.41	-22.06	-839.55	2,781.87	945.20	791.72	153.48	6.158		
20,200.00	9,673.00	19,226.19	8,796.00	53.19	50.56	-22.06	-739.55	2,781.44	945.19	790.29	154.90	6.102		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

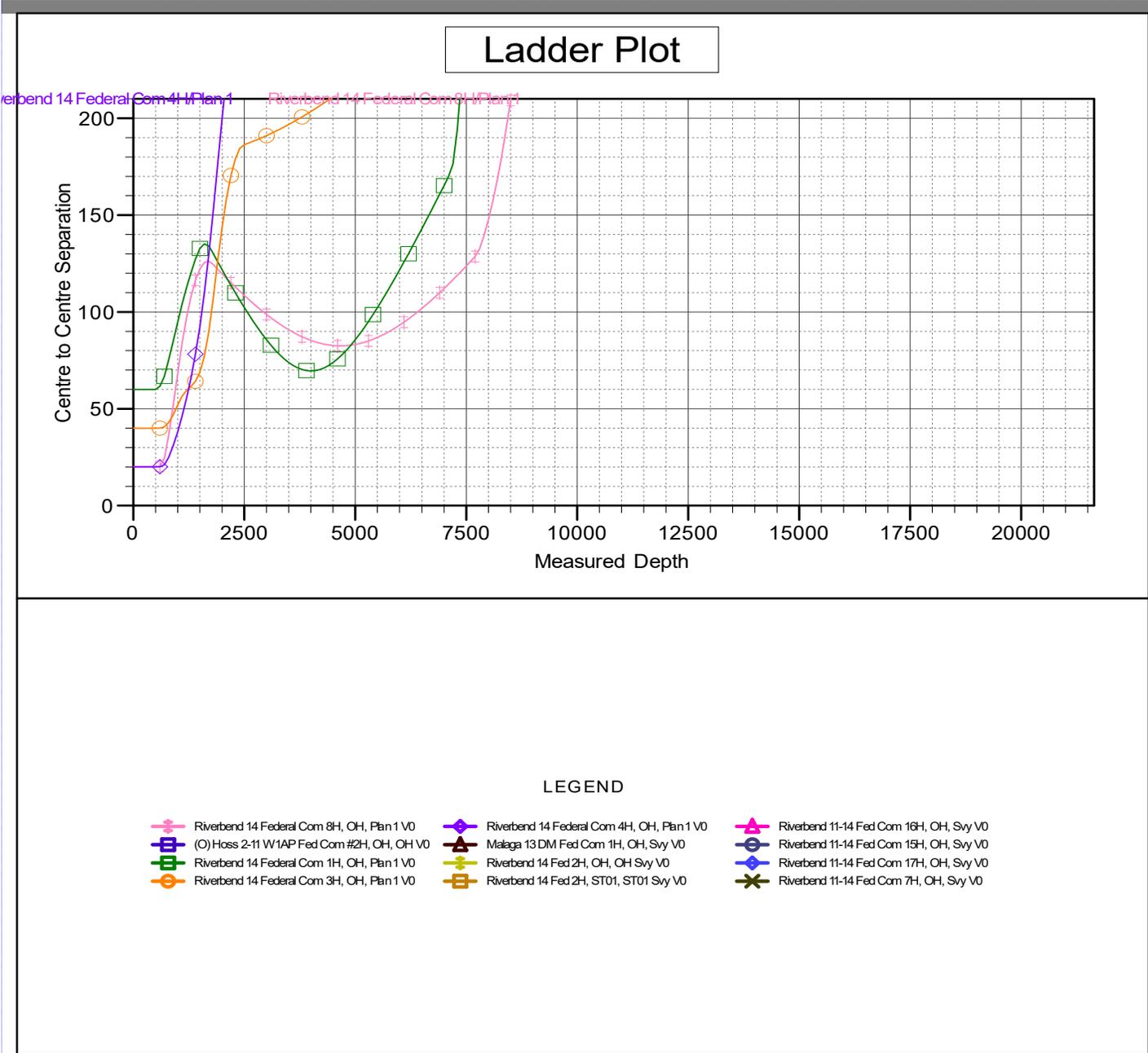
Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error:	0.00 usft
Reference				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,300.00	9,673.00	19,326.19	8,796.00	53.33	50.72	-22.06	-639.55	2,781.01	945.19	788.86	156.33	6.046		
20,400.00	9,673.00	19,426.19	8,796.00	53.49	50.89	-22.06	-539.55	2,780.59	945.18	787.42	157.76	5.991		
20,500.00	9,673.00	19,526.19	8,796.00	53.66	51.08	-22.06	-439.55	2,780.16	945.18	785.99	159.19	5.937		
20,600.00	9,673.00	19,626.19	8,796.00	53.84	51.29	-22.06	-339.55	2,779.73	945.18	784.55	160.62	5.884		
20,608.27	9,673.00	19,634.41	8,796.00	54.14	51.30	-22.06	-331.33	2,779.69	945.17	784.46	160.71	5.881		
20,610.93	9,673.00	19,634.41	8,796.00	54.93	51.30	-22.06	-331.33	2,779.69	945.18	784.43	160.75	5.880		

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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 2936' GL + 23 @ 2959.00usft (Cactus 15) Coordinates are relative to: Riverbend 14 Federal Com 7H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Central Meridian is -104.3333333 Grid Convergence at Surface is: 0.15°



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

Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Riverbend 14 Federal Com 7H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Reference Site:	Riverbend 14 Federal Com	MD Reference:	2936' GL + 23 @ 2959.00usft (Cactus 156)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Riverbend 14 Federal Com 7H	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 4	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 2936' GL + 23 @ 2959.00usft (Cactus 15)
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.3333333

Coordinates are relative to: Riverbend 14 Federal Com 7H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.15°



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

COMPANY Coterra Energy
 FIELD Eddy County, NM (NAD 83)
 SITE Riverbend 14 Federal Com
 WELL Riverbend 14 Federal Com 7H
 WELLPATH OH
 DESIGN Plan 4
 DEPTHUNT (usft)

WELL INFO

MAP DATUM North American Datum 1983
 MAP SYSTE US State Plane 1983
 MAP ZONE New Mexico Eastern Zone
 WELL LAT 32.138125
 WELL LON -104.06063
 WELL EW M 625746.85
 WELL NS M/ 414092.29
 CONVERGE 0.15
 MAGMODEL HDGM2025
 DECLINATIC 6.42
 NORTH REF Grid
 GROUND EL 2936
 KB ELEVN 2959
 VS AZI 179.75

SURVEY PROGRAM

1 0.00 - 20610.60 PLAN 4 : MWD+IFR1+MS

SURVEY LIST

Measured MD	De Inclin INC	Azimuth AZI	Course CL	Leng TVD	True TVD	Vertical SSTVD	SubSea TVD	Local N/-S NS
0.00	0.00	0.00	0.00	0.00	0.00	2959.00	0.00	0.00
100.00	0.00	0.00	100.00	100.00	100.00	2859.00	0.00	0.00
200.00	0.00	0.00	100.00	100.00	200.00	2759.00	0.00	0.00
300.00	0.00	0.00	100.00	100.00	300.00	2659.00	0.00	0.00
400.00	0.00	0.00	100.00	100.00	400.00	2559.00	0.00	0.00
500.00	0.00	0.00	100.00	100.00	500.00	2459.00	0.00	0.00
600.00	2.00	180.00	100.00	100.00	599.98	2359.02	-1.75	-1.75
700.00	4.00	180.00	100.00	100.00	699.84	2259.16	-6.98	-6.98
750.00	5.00	180.00	50.00	50.00	749.68	2209.32	-10.90	-10.90
800.00	5.00	180.00	50.00	50.00	799.49	2159.51	-15.26	-15.26
900.00	5.00	180.00	100.00	100.00	899.11	2059.89	-23.98	-23.98
1001.27	5.00	180.00	101.27	101.27	1000.00	1959.00	-32.80	-32.80
1100.00	5.04	157.28	98.73	98.73	1098.36	1860.64	-41.10	-41.10
1200.00	5.80	137.56	100.00	100.00	1197.92	1761.08	-48.88	-48.88
1300.00	7.06	123.62	100.00	100.00	1297.29	1661.71	-56.01	-56.01
1400.00	8.61	114.27	100.00	100.00	1396.36	1562.64	-62.49	-62.49

1500.00	10.31	107.86	100.00	1495.00	1464.00	-68.32
1600.00	12.11	103.29	100.00	1593.09	1365.91	-73.47
1700.00	13.96	99.90	100.00	1690.51	1268.49	-77.95
1743.11	14.76	98.69	43.11	1732.28	1226.73	-79.68
1800.00	14.76	98.69	56.89	1787.29	1171.71	-81.87
1900.00	14.76	98.69	100.00	1883.99	1075.02	-85.72
2000.00	14.76	98.69	100.00	1980.68	978.32	-89.57
2100.00	14.76	98.69	100.00	2077.38	881.62	-93.43
2200.00	14.76	98.69	100.00	2174.08	784.92	-97.28
2300.00	14.76	98.69	100.00	2270.78	688.22	-101.13
2400.00	14.76	98.69	100.00	2367.48	591.52	-104.98
2500.00	14.76	98.69	100.00	2464.17	494.83	-108.83
2600.00	14.76	98.69	100.00	2560.87	398.13	-112.68
2700.00	14.76	98.69	100.00	2657.57	301.43	-116.54
2800.00	14.76	98.69	100.00	2754.27	204.73	-120.39
2900.00	14.76	98.69	100.00	2850.97	108.03	-124.24
3000.00	14.76	98.69	100.00	2947.67	11.34	-128.09
3100.00	14.76	98.69	100.00	3044.36	-85.36	-131.94
3200.00	14.76	98.69	100.00	3141.06	-182.06	-135.79
3300.00	14.76	98.69	100.00	3237.76	-278.76	-139.65
3400.00	14.76	98.69	100.00	3334.46	-375.46	-143.50
3500.00	14.76	98.69	100.00	3431.16	-472.16	-147.35
3600.00	14.76	98.69	100.00	3527.85	-568.85	-151.20
3700.00	14.76	98.69	100.00	3624.55	-665.55	-155.05
3800.00	14.76	98.69	100.00	3721.25	-762.25	-158.91
3900.00	14.76	98.69	100.00	3817.95	-858.95	-162.76
4000.00	14.76	98.69	100.00	3914.65	-955.65	-166.61
4100.00	14.76	98.69	100.00	4011.35	-1052.35	-170.46
4200.00	14.76	98.69	100.00	4108.04	-1149.04	-174.31
4300.00	14.76	98.69	100.00	4204.74	-1245.74	-178.16
4400.00	14.76	98.69	100.00	4301.44	-1342.44	-182.02
4500.00	14.76	98.69	100.00	4398.14	-1439.14	-185.87
4600.00	14.76	98.69	100.00	4494.84	-1535.84	-189.72
4700.00	14.76	98.69	100.00	4591.53	-1632.53	-193.57
4800.00	14.76	98.69	100.00	4688.23	-1729.23	-197.42
4900.00	14.76	98.69	100.00	4784.93	-1825.93	-201.27
5000.00	14.76	98.69	100.00	4881.63	-1922.63	-205.13
5100.00	14.76	98.69	100.00	4978.33	-2019.33	-208.98
5200.00	14.76	98.69	100.00	5075.03	-2116.03	-212.83
5300.00	14.76	98.69	100.00	5171.72	-2212.72	-216.68
5400.00	14.76	98.69	100.00	5268.42	-2309.42	-220.53
5500.00	14.76	98.69	100.00	5365.12	-2406.12	-224.38
5600.00	14.76	98.69	100.00	5461.82	-2502.82	-228.24
5700.00	14.76	98.69	100.00	5558.52	-2599.52	-232.09
5800.00	14.76	98.69	100.00	5655.22	-2696.22	-235.94
5900.00	14.76	98.69	100.00	5751.91	-2792.91	-239.79

6000.00	14.76	98.69	100.00	5848.61	-2889.61	-243.64
6100.00	14.76	98.69	100.00	5945.31	-2986.31	-247.50
6200.00	14.76	98.69	100.00	6042.01	-3083.01	-251.35
6300.00	14.76	98.69	100.00	6138.71	-3179.71	-255.20
6400.00	14.76	98.69	100.00	6235.40	-3276.40	-259.05
6500.00	14.76	98.69	100.00	6332.10	-3373.10	-262.90
6600.00	14.76	98.69	100.00	6428.80	-3469.80	-266.75
6700.00	14.76	98.69	100.00	6525.50	-3566.50	-270.61
6800.00	14.76	98.69	100.00	6622.20	-3663.20	-274.46
6900.00	14.76	98.69	100.00	6718.90	-3759.90	-278.31
7000.00	14.76	98.69	100.00	6815.59	-3856.59	-282.16
7100.00	14.76	98.69	100.00	6912.29	-3953.29	-286.01
7200.00	14.76	98.69	100.00	7008.99	-4049.99	-289.86
7300.00	14.76	98.69	100.00	7105.69	-4146.69	-293.72
7400.00	14.76	98.69	100.00	7202.39	-4243.39	-297.57
7500.00	14.76	98.69	100.00	7299.08	-4340.08	-301.42
7600.00	14.76	98.69	100.00	7395.78	-4436.78	-305.27
7700.00	14.76	98.69	100.00	7492.48	-4533.48	-309.12
7800.00	14.76	98.69	100.00	7589.18	-4630.18	-312.98
7832.26	14.76	98.69	32.26	7620.37	-4661.37	-314.22
7900.00	14.09	98.69	67.75	7685.98	-4726.98	-316.77
8000.00	13.09	98.69	100.00	7783.18	-4824.18	-320.32
8100.00	12.09	98.69	100.00	7880.77	-4921.77	-323.61
8200.00	11.09	98.69	100.00	7978.73	-5019.73	-326.65
8300.00	10.09	98.69	100.00	8077.03	-5118.03	-329.43
8400.00	9.09	98.69	100.00	8175.63	-5216.63	-331.94
8500.00	8.09	98.69	100.00	8274.51	-5315.51	-334.20
8600.00	7.09	98.69	100.00	8373.63	-5414.63	-336.19
8700.00	6.09	98.69	100.00	8472.97	-5513.97	-337.93
8800.00	5.09	98.69	100.00	8572.50	-5613.50	-339.40
8900.00	4.09	98.69	100.00	8672.17	-5713.17	-340.61
9000.00	3.09	98.69	100.00	8771.98	-5812.98	-341.55
9100.00	2.09	98.69	100.00	8871.87	-5912.87	-342.24
9200.00	1.09	98.69	100.00	8971.83	-6012.83	-342.65
9308.69	0.00	0.00	108.69	9080.52	-6121.52	-342.81
9350.00	4.13	179.75	41.31	9121.79	-6162.79	-344.30
9400.00	9.13	179.75	50.00	9171.44	-6212.44	-350.07
9450.00	14.13	179.75	50.00	9220.40	-6261.40	-360.15
9500.00	19.13	179.75	50.00	9268.29	-6309.29	-374.45
9550.00	24.13	179.75	50.00	9314.76	-6355.76	-392.88
9600.00	29.13	179.75	50.00	9359.44	-6400.44	-415.28
9650.00	34.13	179.75	50.00	9402.00	-6443.00	-441.50
9700.00	39.13	179.75	50.00	9442.11	-6483.11	-471.32
9750.00	44.13	179.75	50.00	9479.47	-6520.47	-504.53
9800.00	49.13	179.75	50.00	9513.79	-6554.79	-540.86
9850.00	54.13	179.75	50.00	9544.82	-6585.82	-580.05

9900.00	59.13	179.75	50.00	9572.31	-6613.31	-621.79
9950.00	64.13	179.75	50.00	9596.06	-6637.06	-665.77
10000.00	69.13	179.75	50.00	9615.89	-6656.89	-711.66
10050.00	74.13	179.75	50.00	9631.64	-6672.64	-759.09
10058.69	75.00	179.75	8.69	9633.96	-6674.96	-767.47
10100.00	77.07	179.75	41.31	9643.93	-6684.93	-807.56
10200.00	82.07	179.75	100.00	9662.03	-6703.03	-905.87
10300.00	87.07	179.74	100.00	9671.50	-6712.50	-1005.39
10358.69	90.00	179.74	58.69	9673.00	-6714.00	-1064.05
10400.00	90.00	179.74	41.31	9673.00	-6714.00	-1105.36
10500.00	90.00	179.74	100.00	9673.00	-6714.00	-1205.36
10600.00	90.00	179.74	100.00	9673.00	-6714.00	-1305.36
10700.00	90.00	179.74	100.00	9673.00	-6714.00	-1405.36
10800.00	90.00	179.74	100.00	9673.00	-6714.00	-1505.36
10900.00	90.00	179.74	100.00	9673.00	-6714.00	-1605.36
11000.00	90.00	179.74	100.00	9673.00	-6714.00	-1705.36
11100.00	90.00	179.74	100.00	9673.00	-6714.00	-1805.35
11200.00	90.00	179.74	100.00	9673.00	-6714.00	-1905.35
11300.00	90.00	179.74	100.00	9673.00	-6714.00	-2005.35
11400.00	90.00	179.74	100.00	9673.00	-6714.00	-2105.35
11500.00	90.00	179.74	100.00	9673.00	-6714.00	-2205.35
11600.00	90.00	179.74	100.00	9673.00	-6714.00	-2305.35
11700.00	90.00	179.74	100.00	9673.00	-6714.00	-2405.35
11800.00	90.00	179.74	100.00	9673.00	-6714.00	-2505.35
11900.00	90.00	179.74	100.00	9673.00	-6714.00	-2605.35
12000.00	90.00	179.74	100.00	9673.00	-6714.00	-2705.34
12100.00	90.00	179.74	100.00	9673.00	-6714.00	-2805.34
12200.00	90.00	179.74	100.00	9673.00	-6714.00	-2905.34
12300.00	90.00	179.74	100.00	9673.00	-6714.00	-3005.34
12400.00	90.00	179.74	100.00	9673.00	-6714.00	-3105.34
12500.00	90.00	179.74	100.00	9673.00	-6714.00	-3205.34
12600.00	90.00	179.74	100.00	9673.00	-6714.00	-3305.34
12700.00	90.00	179.74	100.00	9673.00	-6714.00	-3405.34
12800.00	90.00	179.74	100.00	9673.00	-6714.00	-3505.34
12900.00	90.00	179.74	100.00	9673.00	-6714.00	-3605.34
13000.00	90.00	179.74	100.00	9673.00	-6714.00	-3705.33
13100.00	90.00	179.74	100.00	9673.00	-6714.00	-3805.33
13200.00	90.00	179.74	100.00	9673.00	-6714.00	-3905.33
13300.00	90.00	179.74	100.00	9673.00	-6714.00	-4005.33
13400.00	90.00	179.74	100.00	9673.00	-6714.00	-4105.33
13500.00	90.00	179.74	100.00	9673.00	-6714.00	-4205.33
13600.00	90.00	179.74	100.00	9673.00	-6714.00	-4305.33
13700.00	90.00	179.74	100.00	9673.00	-6714.00	-4405.33
13800.00	90.00	179.74	100.00	9673.00	-6714.00	-4505.33
13900.00	90.00	179.74	100.00	9673.00	-6714.00	-4605.33
14000.00	90.00	179.74	100.00	9673.00	-6714.00	-4705.32

14083.65	90.00	179.74	83.65	9673.00	-6714.00	-4788.97
14100.00	90.00	178.32	16.35	9673.00	-6714.00	-4805.32
14150.00	90.00	173.97	50.00	9673.00	-6714.00	-4855.20
14200.00	90.00	169.63	50.00	9673.00	-6714.00	-4904.67
14250.00	90.00	165.28	50.00	9673.00	-6714.00	-4953.47
14300.00	90.00	160.94	50.00	9673.00	-6714.00	-5001.30
14350.00	90.00	156.59	50.00	9673.00	-6714.00	-5047.89
14400.00	90.00	152.25	50.00	9673.00	-6714.00	-5092.98
14450.00	90.00	147.90	50.00	9673.00	-6714.00	-5136.31
14500.00	90.00	143.56	50.00	9673.00	-6714.00	-5177.62
14550.00	90.00	139.21	50.00	9673.00	-6714.00	-5216.68
14600.00	90.00	134.87	50.00	9673.00	-6714.00	-5253.26
14650.00	90.00	130.52	50.00	9673.00	-6714.00	-5287.16
14700.00	90.00	126.18	50.00	9673.00	-6714.00	-5318.18
14750.00	90.00	121.83	50.00	9673.00	-6714.00	-5346.13
14800.00	90.00	117.49	50.00	9673.00	-6714.00	-5370.87
14850.00	90.00	113.14	50.00	9673.00	-6714.00	-5392.25
14900.00	90.00	108.80	50.00	9673.00	-6714.00	-5410.14
14950.00	90.00	104.45	50.00	9673.00	-6714.00	-5424.44
15000.00	90.00	100.11	50.00	9673.00	-6714.00	-5435.07
15050.00	90.00	95.76	50.00	9673.00	-6714.00	-5441.98
15100.00	90.00	91.42	50.00	9673.00	-6714.00	-5445.11
15150.00	90.00	87.07	50.00	9673.00	-6714.00	-5444.45
15200.00	90.00	82.73	50.00	9673.00	-6714.00	-5440.01
15250.00	90.00	78.38	50.00	9673.00	-6714.00	-5431.81
15300.00	90.00	74.04	50.00	9673.00	-6714.00	-5419.89
15350.00	90.00	69.69	50.00	9673.00	-6714.00	-5404.33
15400.00	90.00	65.35	50.00	9673.00	-6714.00	-5385.22
15450.00	90.00	61.00	50.00	9673.00	-6714.00	-5362.67
15500.00	90.00	56.66	50.00	9673.00	-6714.00	-5336.79
15550.00	90.00	52.31	50.00	9673.00	-6714.00	-5307.76
15600.00	90.00	47.97	50.00	9673.00	-6714.00	-5275.72
15650.00	90.00	43.62	50.00	9673.00	-6714.00	-5240.87
15700.00	90.00	39.28	50.00	9673.00	-6714.00	-5203.40
15750.00	90.00	34.93	50.00	9673.00	-6714.00	-5163.53
15800.00	90.00	30.59	50.00	9673.00	-6714.00	-5121.50
15850.00	90.00	26.24	50.00	9673.00	-6714.00	-5077.53
15900.00	90.00	21.90	50.00	9673.00	-6714.00	-5031.89
15950.00	90.00	17.55	50.00	9673.00	-6714.00	-4984.84
16000.00	90.00	13.21	50.00	9673.00	-6714.00	-4936.64
16050.00	90.00	8.86	50.00	9673.00	-6714.00	-4887.58
16100.00	90.00	4.52	50.00	9673.00	-6714.00	-4837.93
16138.65	90.00	1.16	38.65	9673.00	-6714.00	-4799.33
16209.35	90.00	359.75	70.70	9673.00	-6714.00	-4728.64
16300.00	90.00	359.75	90.65	9673.00	-6714.00	-4637.99
16400.00	90.00	359.75	100.00	9673.00	-6714.00	-4537.99

16500.00	90.00	359.75	100.00	9673.00	-6714.00	-4437.99
16600.00	90.00	359.75	100.00	9673.00	-6714.00	-4337.99
16700.00	90.00	359.75	100.00	9673.00	-6714.00	-4237.99
16800.00	90.00	359.75	100.00	9673.00	-6714.00	-4137.99
16900.00	90.00	359.75	100.00	9673.00	-6714.00	-4037.99
17000.00	90.00	359.75	100.00	9673.00	-6714.00	-3937.99
17100.00	90.00	359.75	100.00	9673.00	-6714.00	-3837.99
17200.00	90.00	359.75	100.00	9673.00	-6714.00	-3738.00
17300.00	90.00	359.75	100.00	9673.00	-6714.00	-3638.00
17400.00	90.00	359.75	100.00	9673.00	-6714.00	-3538.00
17500.00	90.00	359.75	100.00	9673.00	-6714.00	-3438.00
17600.00	90.00	359.75	100.00	9673.00	-6714.00	-3338.00
17700.00	90.00	359.75	100.00	9673.00	-6714.00	-3238.00
17800.00	90.00	359.75	100.00	9673.00	-6714.00	-3138.00
17900.00	90.00	359.75	100.00	9673.00	-6714.00	-3038.00
18000.00	90.00	359.75	100.00	9673.00	-6714.00	-2938.00
18100.00	90.00	359.75	100.00	9673.00	-6714.00	-2838.00
18200.00	90.00	359.75	100.00	9673.00	-6714.00	-2738.01
18300.00	90.00	359.75	100.00	9673.00	-6714.00	-2638.01
18400.00	90.00	359.75	100.00	9673.00	-6714.00	-2538.01
18500.00	90.00	359.75	100.00	9673.00	-6714.00	-2438.01
18600.00	90.00	359.75	100.00	9673.00	-6714.00	-2338.01
18700.00	90.00	359.75	100.00	9673.00	-6714.00	-2238.01
18800.00	90.00	359.75	100.00	9673.00	-6714.00	-2138.01
18900.00	90.00	359.75	100.00	9673.00	-6714.00	-2038.01
19000.00	90.00	359.75	100.00	9673.00	-6714.00	-1938.01
19100.00	90.00	359.75	100.00	9673.00	-6714.00	-1838.01
19200.00	90.00	359.75	100.00	9673.00	-6714.00	-1738.01
19300.00	90.00	359.75	100.00	9673.00	-6714.00	-1638.02
19400.00	90.00	359.75	100.00	9673.00	-6714.00	-1538.02
19500.00	90.00	359.75	100.00	9673.00	-6714.00	-1438.02
19600.00	90.00	359.75	100.00	9673.00	-6714.00	-1338.02
19700.00	90.00	359.75	100.00	9673.00	-6714.00	-1238.02
19800.00	90.00	359.75	100.00	9673.00	-6714.00	-1138.02
19900.00	90.00	359.75	100.00	9673.00	-6714.00	-1038.02
20000.00	90.00	359.75	100.00	9673.00	-6714.00	-938.02
20100.00	90.00	359.75	100.00	9673.00	-6714.00	-838.02
20200.00	90.00	359.75	100.00	9673.00	-6714.00	-738.02
20300.00	90.00	359.75	100.00	9673.00	-6714.00	-638.03
20400.00	90.00	359.75	100.00	9673.00	-6714.00	-538.03
20500.00	90.00	359.75	100.00	9673.00	-6714.00	-438.03
20600.00	90.00	359.75	100.00	9673.00	-6714.00	-338.03
20610.93	90.00	359.75	10.93	9673.00	-6714.00	-327.10

Local E/-W EW	Easting X	Northing Y	Latitude LAT	Longitude LON	Dogleg DLS	Seve BLD	Build Rate
0.00	625746.85	414092.29	32.138125	-104.060625		0.00	0.00
0.00	625746.85	414092.29	32.138125	-104.060625		0.00	0.00
0.00	625746.85	414092.29	32.138125	-104.060625		0.00	0.00
0.00	625746.85	414092.29	32.138125	-104.060625		0.00	0.00
0.00	625746.85	414092.29	32.138125	-104.060625		0.00	0.00
0.00	625746.85	414092.29	32.138125	-104.060625		0.00	0.00
0.00	625746.85	414090.55	32.138120	-104.060625		2.00	2.00
0.00	625746.85	414085.31	32.138106	-104.060626		2.00	2.00
0.00	625746.85	414081.39	32.138095	-104.060626		2.00	2.00
0.00	625746.85	414077.03	32.138083	-104.060626		0.00	0.00
0.00	625746.85	414068.32	32.138059	-104.060626		0.00	0.00
0.00	625746.85	414059.49	32.138035	-104.060626		0.00	0.00
1.67	625748.52	414051.19	32.138012	-104.060620		2.00	0.04
6.78	625753.63	414043.41	32.137990	-104.060604		2.00	0.76
15.31	625762.16	414036.28	32.137971	-104.060576		2.00	1.26
27.25	625774.10	414029.80	32.137953	-104.060538		2.00	1.55

42.60	625789.45	414023.98	32.137937	-104.060488	2.00	1.70
61.33	625808.18	414018.82	32.137922	-104.060428	2.00	1.79
83.42	625830.27	414014.34	32.137910	-104.060357	2.00	1.85
93.97	625840.82	414012.61	32.137905	-104.060323	2.00	1.88
108.30	625855.15	414010.42	32.137899	-104.060276	0.00	0.00
133.49	625880.34	414006.57	32.137888	-104.060195	0.00	0.00
158.68	625905.53	414002.72	32.137877	-104.060114	0.00	0.00
183.87	625930.72	413998.87	32.137867	-104.060032	0.00	0.00
209.07	625955.92	413995.01	32.137856	-104.059951	0.00	0.00
234.26	625981.11	413991.16	32.137845	-104.059869	0.00	0.00
259.45	626006.30	413987.31	32.137834	-104.059788	0.00	0.00
284.64	626031.49	413983.46	32.137824	-104.059707	0.00	0.00
309.83	626056.68	413979.61	32.137813	-104.059625	0.00	0.00
335.02	626081.87	413975.76	32.137802	-104.059544	0.00	0.00
360.22	626107.07	413971.90	32.137791	-104.059463	0.00	0.00
385.41	626132.26	413968.05	32.137780	-104.059381	0.00	0.00
410.60	626157.45	413964.20	32.137770	-104.059300	0.00	0.00
435.79	626182.64	413960.35	32.137759	-104.059219	0.00	0.00
460.98	626207.83	413956.50	32.137748	-104.059137	0.00	0.00
486.17	626233.02	413952.64	32.137737	-104.059056	0.00	0.00
511.37	626258.22	413948.79	32.137727	-104.058975	0.00	0.00
536.56	626283.41	413944.94	32.137716	-104.058893	0.00	0.00
561.75	626308.60	413941.09	32.137705	-104.058812	0.00	0.00
586.94	626333.79	413937.24	32.137694	-104.058730	0.00	0.00
612.13	626358.98	413933.39	32.137684	-104.058649	0.00	0.00
637.32	626384.17	413929.53	32.137673	-104.058568	0.00	0.00
662.52	626409.37	413925.68	32.137662	-104.058486	0.00	0.00
687.71	626434.56	413921.83	32.137651	-104.058405	0.00	0.00
712.90	626459.75	413917.98	32.137641	-104.058324	0.00	0.00
738.09	626484.94	413914.13	32.137630	-104.058242	0.00	0.00
763.28	626510.13	413910.28	32.137619	-104.058161	0.00	0.00
788.47	626535.32	413906.42	32.137608	-104.058080	0.00	0.00
813.67	626560.52	413902.57	32.137597	-104.057998	0.00	0.00
838.86	626585.71	413898.72	32.137587	-104.057917	0.00	0.00
864.05	626610.90	413894.87	32.137576	-104.057836	0.00	0.00
889.24	626636.09	413891.02	32.137565	-104.057754	0.00	0.00
914.43	626661.28	413887.16	32.137554	-104.057673	0.00	0.00
939.62	626686.47	413883.31	32.137544	-104.057592	0.00	0.00
964.82	626711.67	413879.46	32.137533	-104.057510	0.00	0.00
990.01	626736.86	413875.61	32.137522	-104.057429	0.00	0.00
1015.20	626762.05	413871.76	32.137511	-104.057347	0.00	0.00
1040.39	626787.24	413867.91	32.137501	-104.057266	0.00	0.00
1065.58	626812.43	413864.05	32.137490	-104.057185	0.00	0.00
1090.77	626837.62	413860.20	32.137479	-104.057103	0.00	0.00
1115.97	626862.82	413856.35	32.137468	-104.057022	0.00	0.00
1141.16	626888.01	413852.50	32.137458	-104.056941	0.00	0.00

1166.35	626913.20	413848.65	32.137447	-104.056859	0.00	0.00
1191.54	626938.39	413844.80	32.137436	-104.056778	0.00	0.00
1216.73	626963.58	413840.94	32.137425	-104.056697	0.00	0.00
1241.92	626988.77	413837.09	32.137414	-104.056615	0.00	0.00
1267.12	627013.97	413833.24	32.137404	-104.056534	0.00	0.00
1292.31	627039.16	413829.39	32.137393	-104.056453	0.00	0.00
1317.50	627064.35	413825.54	32.137382	-104.056371	0.00	0.00
1342.69	627089.54	413821.69	32.137371	-104.056290	0.00	0.00
1367.88	627114.73	413817.83	32.137361	-104.056208	0.00	0.00
1393.07	627139.92	413813.98	32.137350	-104.056127	0.00	0.00
1418.27	627165.12	413810.13	32.137339	-104.056046	0.00	0.00
1443.46	627190.31	413806.28	32.137328	-104.055964	0.00	0.00
1468.65	627215.50	413802.43	32.137318	-104.055883	0.00	0.00
1493.84	627240.69	413798.57	32.137307	-104.055802	0.00	0.00
1519.03	627265.88	413794.72	32.137296	-104.055720	0.00	0.00
1544.22	627291.07	413790.87	32.137285	-104.055639	0.00	0.00
1569.42	627316.27	413787.02	32.137274	-104.055558	0.00	0.00
1594.61	627341.46	413783.17	32.137264	-104.055476	0.00	0.00
1619.80	627366.65	413779.32	32.137253	-104.055395	0.00	0.00
1627.92	627374.77	413778.07	32.137249	-104.055369	0.00	0.00
1644.61	627391.46	413775.52	32.137242	-104.055315	1.00	-1.00
1667.83	627414.68	413771.97	32.137232	-104.055240	1.00	-1.00
1689.37	627436.22	413768.68	32.137223	-104.055170	1.00	-1.00
1709.23	627456.08	413765.64	32.137215	-104.055106	1.00	-1.00
1727.39	627474.24	413762.87	32.137207	-104.055047	1.00	-1.00
1743.85	627490.70	413760.35	32.137200	-104.054994	1.00	-1.00
1758.61	627505.46	413758.09	32.137194	-104.054947	1.00	-1.00
1771.66	627518.51	413756.10	32.137188	-104.054904	1.00	-1.00
1783.00	627529.85	413754.36	32.137183	-104.054868	1.00	-1.00
1792.62	627539.47	413752.89	32.137179	-104.054837	1.00	-1.00
1800.53	627547.38	413751.68	32.137176	-104.054811	1.00	-1.00
1806.71	627553.56	413750.74	32.137173	-104.054791	1.00	-1.00
1811.17	627558.02	413750.05	32.137171	-104.054777	1.00	-1.00
1813.91	627560.76	413749.64	32.137170	-104.054768	1.00	-1.00
1814.93	627561.78	413749.48	32.137170	-104.054765	1.00	-1.00
1814.94	627561.79	413747.99	32.137165	-104.054765	10.00	10.00
1814.96	627561.81	413742.22	32.137150	-104.054765	10.00	10.00
1815.01	627561.86	413732.14	32.137122	-104.054765	10.00	10.00
1815.07	627561.92	413717.84	32.137083	-104.054765	10.00	10.00
1815.15	627562.00	413699.41	32.137032	-104.054764	10.00	10.00
1815.25	627562.10	413677.01	32.136970	-104.054764	10.00	10.00
1815.36	627562.21	413650.79	32.136898	-104.054764	10.00	10.00
1815.49	627562.34	413620.97	32.136816	-104.054764	10.00	10.00
1815.64	627562.49	413587.77	32.136725	-104.054764	10.00	10.00
1815.79	627562.64	413551.43	32.136625	-104.054764	10.00	10.00
1815.97	627562.82	413512.24	32.136517	-104.054763	10.00	10.00

1816.15	627563.00	413470.50	32.136403	-104.054763	10.00	10.00
1816.34	627563.19	413426.52	32.136282	-104.054763	10.00	10.00
1816.54	627563.39	413380.63	32.136156	-104.054763	10.00	10.00
1816.75	627563.60	413333.20	32.136025	-104.054762	10.00	10.00
1816.78	627563.63	413324.82	32.136002	-104.054762	10.00	10.00
1816.96	627563.81	413284.74	32.135892	-104.054762	5.00	5.00
1817.39	627564.24	413186.42	32.135622	-104.054761	5.00	5.00
1817.84	627564.69	413086.90	32.135348	-104.054761	5.00	5.00
1818.10	627564.95	413028.24	32.135187	-104.054761	5.00	5.00
1818.29	627565.14	412986.93	32.135073	-104.054760	0.00	0.00
1818.74	627565.59	412886.93	32.134798	-104.054760	0.00	0.00
1819.20	627566.05	412786.93	32.134524	-104.054759	0.00	0.00
1819.65	627566.50	412686.93	32.134249	-104.054758	0.00	0.00
1820.11	627566.96	412586.93	32.133974	-104.054758	0.00	0.00
1820.56	627567.41	412486.93	32.133699	-104.054757	0.00	0.00
1821.01	627567.86	412386.94	32.133424	-104.054756	0.00	0.00
1821.47	627568.32	412286.94	32.133149	-104.054756	0.00	0.00
1821.92	627568.77	412186.94	32.132874	-104.054755	0.00	0.00
1822.37	627569.22	412086.94	32.132599	-104.054755	0.00	0.00
1822.83	627569.68	411986.94	32.132324	-104.054754	0.00	0.00
1823.28	627570.13	411886.94	32.132050	-104.054753	0.00	0.00
1823.73	627570.58	411786.94	32.131775	-104.054753	0.00	0.00
1824.19	627571.04	411686.94	32.131500	-104.054752	0.00	0.00
1824.64	627571.49	411586.94	32.131225	-104.054751	0.00	0.00
1825.10	627571.95	411486.95	32.130950	-104.054751	0.00	0.00
1825.55	627572.40	411386.95	32.130675	-104.054750	0.00	0.00
1826.00	627572.85	411286.95	32.130400	-104.054750	0.00	0.00
1826.46	627573.31	411186.95	32.130125	-104.054749	0.00	0.00
1826.91	627573.76	411086.95	32.129850	-104.054748	0.00	0.00
1827.36	627574.21	410986.95	32.129576	-104.054748	0.00	0.00
1827.82	627574.67	410886.95	32.129301	-104.054747	0.00	0.00
1828.27	627575.12	410786.95	32.129026	-104.054746	0.00	0.00
1828.72	627575.57	410686.95	32.128751	-104.054746	0.00	0.00
1829.18	627576.03	410586.95	32.128476	-104.054745	0.00	0.00
1829.63	627576.48	410486.96	32.128201	-104.054745	0.00	0.00
1830.08	627576.93	410386.96	32.127926	-104.054744	0.00	0.00
1830.54	627577.39	410286.96	32.127651	-104.054743	0.00	0.00
1830.99	627577.84	410186.96	32.127376	-104.054743	0.00	0.00
1831.45	627578.30	410086.96	32.127101	-104.054742	0.00	0.00
1831.90	627578.75	409986.96	32.126827	-104.054741	0.00	0.00
1832.35	627579.20	409886.96	32.126552	-104.054741	0.00	0.00
1832.81	627579.66	409786.96	32.126277	-104.054740	0.00	0.00
1833.26	627580.11	409686.96	32.126002	-104.054739	0.00	0.00
1833.71	627580.56	409586.96	32.125727	-104.054739	0.00	0.00
1834.17	627581.02	409486.97	32.125452	-104.054738	0.00	0.00
1834.62	627581.47	409386.97	32.125177	-104.054738	0.00	0.00

1835.00	627581.85	409303.32	32.124947	-104.054737	0.00	0.00
1835.28	627582.13	409286.97	32.124902	-104.054736	8.69	0.00
1838.64	627585.49	409237.10	32.124765	-104.054726	8.69	0.00
1845.77	627592.62	409187.62	32.124629	-104.054703	8.69	0.00
1856.62	627603.47	409138.82	32.124495	-104.054669	8.69	0.00
1871.14	627617.99	409090.99	32.124363	-104.054622	8.69	0.00
1889.25	627636.10	409044.40	32.124235	-104.054564	8.69	0.00
1910.83	627657.68	408999.31	32.124111	-104.054495	8.69	0.00
1935.77	627682.62	408955.98	32.123992	-104.054414	8.69	0.00
1963.91	627710.76	408914.67	32.123878	-104.054324	8.69	0.00
1995.11	627741.96	408875.61	32.123770	-104.054223	8.69	0.00
2029.17	627776.02	408839.03	32.123670	-104.054114	8.69	0.00
2065.91	627812.76	408805.13	32.123576	-104.053995	8.69	0.00
2105.11	627851.96	408774.12	32.123491	-104.053869	8.69	0.00
2146.55	627893.40	408746.16	32.123413	-104.053735	8.69	0.00
2189.99	627936.84	408721.42	32.123345	-104.053595	8.69	0.00
2235.18	627982.03	408700.04	32.123286	-104.053449	8.69	0.00
2281.85	628028.70	408682.15	32.123237	-104.053299	8.69	0.00
2329.75	628076.60	408667.85	32.123197	-104.053144	8.69	0.00
2378.60	628125.45	408657.22	32.123167	-104.052987	8.69	0.00
2428.11	628174.96	408650.31	32.123148	-104.052827	8.69	0.00
2478.00	628224.85	408647.18	32.123139	-104.052666	8.69	0.00
2527.98	628274.83	408647.84	32.123140	-104.052504	8.69	0.00
2577.77	628324.62	408652.28	32.123152	-104.052343	8.69	0.00
2627.08	628373.93	408660.48	32.123175	-104.052184	8.69	0.00
2675.63	628422.48	408672.40	32.123207	-104.052027	8.69	0.00
2723.13	628469.98	408687.96	32.123249	-104.051873	8.69	0.00
2769.32	628516.17	408707.07	32.123302	-104.051724	8.69	0.00
2813.93	628560.78	408729.63	32.123363	-104.051580	8.69	0.00
2856.70	628603.55	408755.50	32.123434	-104.051441	8.69	0.00
2897.39	628644.24	408784.54	32.123514	-104.051310	8.69	0.00
2935.77	628682.62	408816.57	32.123601	-104.051185	8.69	0.00
2971.60	628718.45	408851.42	32.123697	-104.051069	8.69	0.00
3004.69	628751.54	408888.89	32.123800	-104.050962	8.69	0.00
3034.85	628781.70	408928.76	32.123909	-104.050864	8.69	0.00
3061.90	628808.75	408970.79	32.124024	-104.050777	8.69	0.00
3085.69	628832.54	409014.76	32.124145	-104.050699	8.69	0.00
3106.08	628852.93	409060.40	32.124270	-104.050633	8.69	0.00
3122.95	628869.80	409107.45	32.124400	-104.050578	8.69	0.00
3136.21	628883.06	409155.65	32.124532	-104.050535	8.69	0.00
3145.78	628892.63	409204.71	32.124667	-104.050504	8.69	0.00
3151.60	628898.45	409254.36	32.124803	-104.050484	8.69	0.00
3153.52	628900.37	409292.96	32.124909	-104.050478	8.69	0.00
3154.08	628900.93	409363.65	32.125104	-104.050476	2.00	0.00
3153.68	628900.53	409454.30	32.125353	-104.050476	0.00	0.00
3153.24	628900.09	409554.30	32.125628	-104.050477	0.00	0.00

3152.79	628899.64	409654.30	32.125903	-104.050477	0.00	0.00
3152.35	628899.20	409754.30	32.126178	-104.050478	0.00	0.00
3151.91	628898.76	409854.30	32.126452	-104.050478	0.00	0.00
3151.47	628898.32	409954.30	32.126727	-104.050479	0.00	0.00
3151.02	628897.87	410054.30	32.127002	-104.050480	0.00	0.00
3150.58	628897.43	410154.30	32.127277	-104.050480	0.00	0.00
3150.14	628896.99	410254.30	32.127552	-104.050481	0.00	0.00
3149.70	628896.55	410354.30	32.127827	-104.050481	0.00	0.00
3149.25	628896.10	410454.29	32.128102	-104.050482	0.00	0.00
3148.81	628895.66	410554.29	32.128377	-104.050482	0.00	0.00
3148.37	628895.22	410654.29	32.128652	-104.050483	0.00	0.00
3147.93	628894.78	410754.29	32.128926	-104.050484	0.00	0.00
3147.49	628894.34	410854.29	32.129201	-104.050484	0.00	0.00
3147.04	628893.89	410954.29	32.129476	-104.050485	0.00	0.00
3146.60	628893.45	411054.29	32.129751	-104.050485	0.00	0.00
3146.16	628893.01	411154.29	32.130026	-104.050486	0.00	0.00
3145.72	628892.57	411254.29	32.130301	-104.050487	0.00	0.00
3145.27	628892.12	411354.29	32.130576	-104.050487	0.00	0.00
3144.83	628891.68	411454.28	32.130851	-104.050488	0.00	0.00
3144.39	628891.24	411554.28	32.131126	-104.050488	0.00	0.00
3143.95	628890.80	411654.28	32.131401	-104.050489	0.00	0.00
3143.50	628890.35	411754.28	32.131675	-104.050489	0.00	0.00
3143.06	628889.91	411854.28	32.131950	-104.050490	0.00	0.00
3142.62	628889.47	411954.28	32.132225	-104.050491	0.00	0.00
3142.18	628889.03	412054.28	32.132500	-104.050491	0.00	0.00
3141.74	628888.59	412154.28	32.132775	-104.050492	0.00	0.00
3141.29	628888.14	412254.28	32.133050	-104.050492	0.00	0.00
3140.85	628887.70	412354.28	32.133325	-104.050493	0.00	0.00
3140.41	628887.26	412454.28	32.133600	-104.050493	0.00	0.00
3139.97	628886.82	412554.27	32.133875	-104.050494	0.00	0.00
3139.52	628886.37	412654.27	32.134149	-104.050495	0.00	0.00
3139.08	628885.93	412754.27	32.134424	-104.050495	0.00	0.00
3138.64	628885.49	412854.27	32.134699	-104.050496	0.00	0.00
3138.20	628885.05	412954.27	32.134974	-104.050496	0.00	0.00
3137.75	628884.60	413054.27	32.135249	-104.050497	0.00	0.00
3137.31	628884.16	413154.27	32.135524	-104.050498	0.00	0.00
3136.87	628883.72	413254.27	32.135799	-104.050498	0.00	0.00
3136.43	628883.28	413354.27	32.136074	-104.050499	0.00	0.00
3135.99	628882.84	413454.27	32.136349	-104.050499	0.00	0.00
3135.54	628882.39	413554.26	32.136623	-104.050500	0.00	0.00
3135.10	628881.95	413654.26	32.136898	-104.050500	0.00	0.00
3134.66	628881.51	413754.26	32.137173	-104.050501	0.00	0.00
3134.61	628881.46	413765.19	32.137203	-104.050501	0.00	0.00

Turn Rate TRN	Vertical Section VS
0.00	0.00
0.00	0.00
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
-23.01	41.11
-19.72	48.91
-13.94	56.08
-9.35	62.61

-6.41	68.50
-4.57	73.74
-3.39	78.32
-2.79	80.09
0.00	82.34
0.00	86.30
0.00	90.26
0.00	94.23
0.00	98.19
0.00	102.15
0.00	106.11
0.00	110.07
0.00	114.03
0.00	118.00
0.00	121.96
0.00	125.92
0.00	129.88
0.00	133.84
0.00	137.80
0.00	141.77
0.00	145.73
0.00	149.69
0.00	153.65
0.00	157.61
0.00	161.57
0.00	165.54
0.00	169.50
0.00	173.46
0.00	177.42
0.00	181.38
0.00	185.34
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0.00	236.85
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0.00	244.77

0.00	248.73
0.00	252.69
0.00	256.65
0.00	260.62
0.00	264.58
0.00	268.54
0.00	272.50
0.00	276.46
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0.00	288.35
0.00	292.31
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0.00	300.23
0.00	304.19
0.00	308.16
0.00	312.12
0.00	316.08
0.00	320.04
0.00	321.32
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0.00	327.59
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0.00	334.10
0.00	336.96
0.00	339.55
0.00	341.87
0.00	343.92
0.00	345.70
0.00	347.22
0.00	348.46
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0.00	350.14
0.00	350.57
0.00	350.73
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0.00	4113.28
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0.00	4613.28
0.00	4713.28

0.00	4796.93
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-8.69	4863.17
-8.69	4912.68
-8.69	4961.52
-8.69	5009.42
-8.69	5056.09
-8.69	5101.27
-8.69	5144.70
-8.69	5186.14
-8.69	5225.33
-8.69	5262.06
-8.69	5296.12
-8.69	5327.31
-8.69	5355.45
-8.69	5380.38
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-8.69	5434.55
-8.69	5445.40
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-8.69	5045.40
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-8.69	4901.26
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-8.69	4813.05
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0.00	4551.70

0.00	4451.70
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0.00	2051.70
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0.00	1351.70
0.00	1251.70
0.00	1151.70
0.00	1051.70
0.00	951.70
0.00	851.70
0.00	751.70
0.00	651.70
0.00	551.70
0.00	451.70
0.00	351.70
0.00	340.77



Coterra Energy
 Site: Riverbend 14 Federal Com
 Well: Riverbend 14 Federal Com 7H
 Wellbore: OH
 Design: Plan 4
 Rig: Cactus 156

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



SHL

RKB Elevation: 2936' GL + 23' @ 2959.00usft (Cactus 156)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	414092.29	625746.85	32.1381247	-104.0606255	

SECTION DETAILS

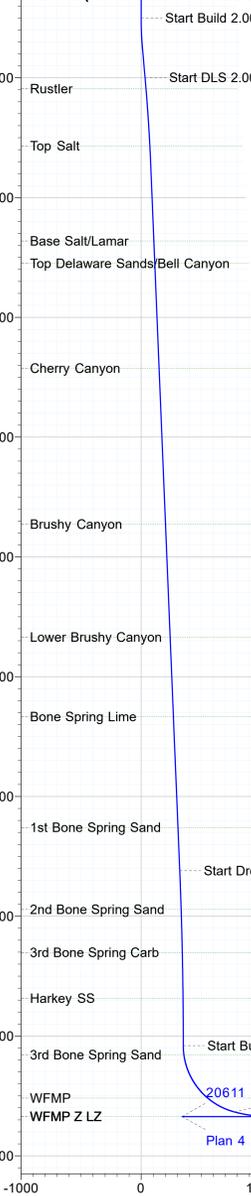
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
750.00	5.00	180.00	749.68	-10.90	0.00	2.00	180.00	10.90	
1001.27	5.00	180.00	1000.00	-32.80	0.00	0.00	0.00	32.80	Start DLS 2.00 TFO -100.33
1743.11	14.76	98.69	1732.27	-79.68	93.97	2.00	-100.33	80.09	
7832.26	14.76	98.69	7620.37	-314.22	1627.92	0.00	0.00	321.32	Start Drop -1.00
9308.69	0.00	0.00	9080.52	-342.81	1814.93	1.00	180.00	350.73	Start Build 10.00
10058.69	75.00	179.75	9633.95	-767.47	1816.78	10.00	179.75	775.39	Start DLS 5.00 TFO -0.04
10358.69	90.00	179.74	9673.00	-1064.05	1818.10	5.00	-0.04	1071.98	
14083.65	90.00	179.74	9673.00	-4788.97	1835.00	0.00	0.00	4796.93	Start DLS 8.69 TFO 270.00
16138.65	90.00	1.16	9673.00	-4799.33	3153.52	8.69	270.00	4813.05	Start DLS 2.00 TFO -90.00
16209.35	90.00	359.75	9673.00	-4728.64	3154.08	2.00	-90.00	4742.35	Start 4401.58 hold at 16209.35 MD
20610.93	90.00	359.75	9673.00	-327.10	3134.61	0.00	0.00	340.77	TD at 20610.93

WELLBORE TARGET DETAILS

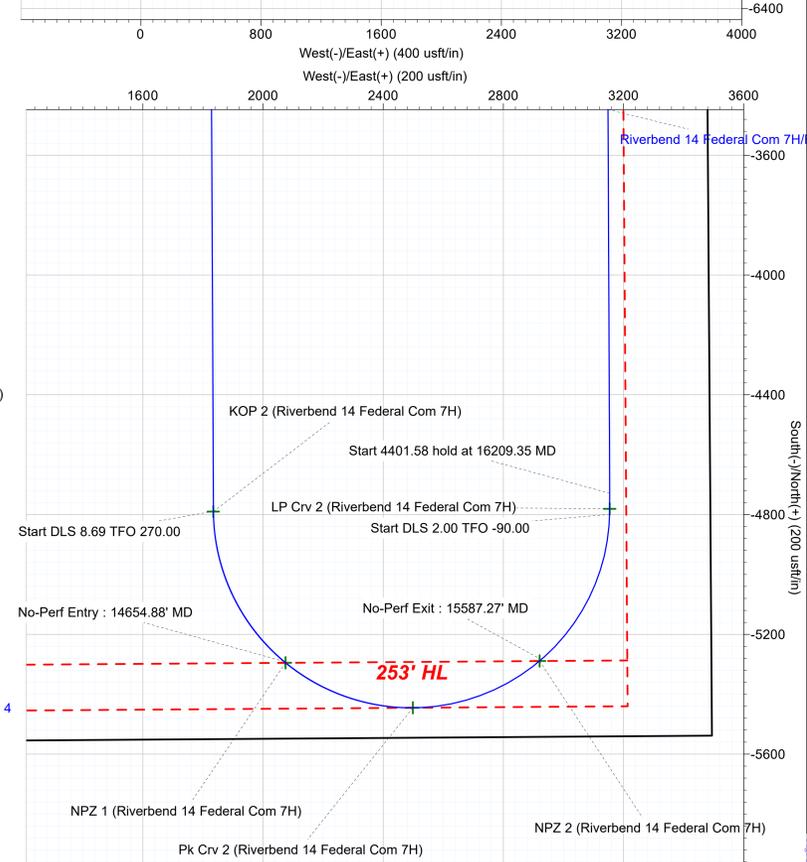
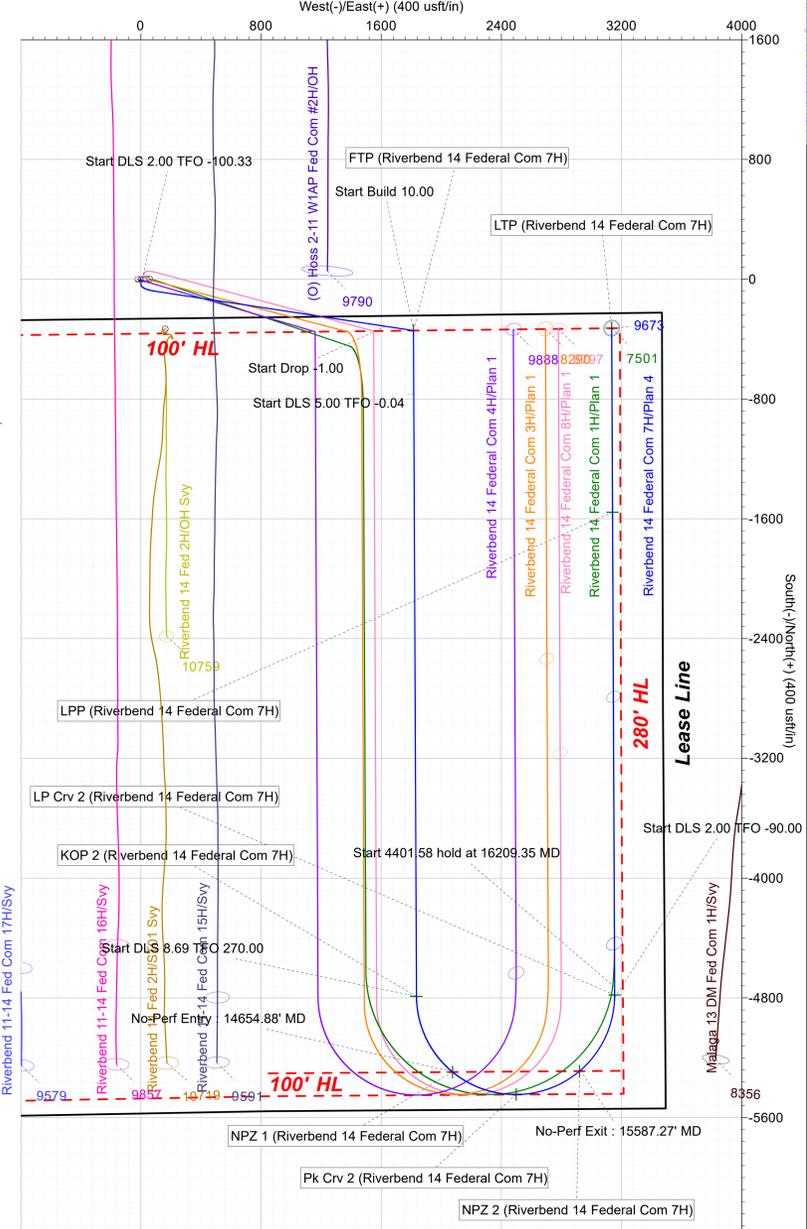
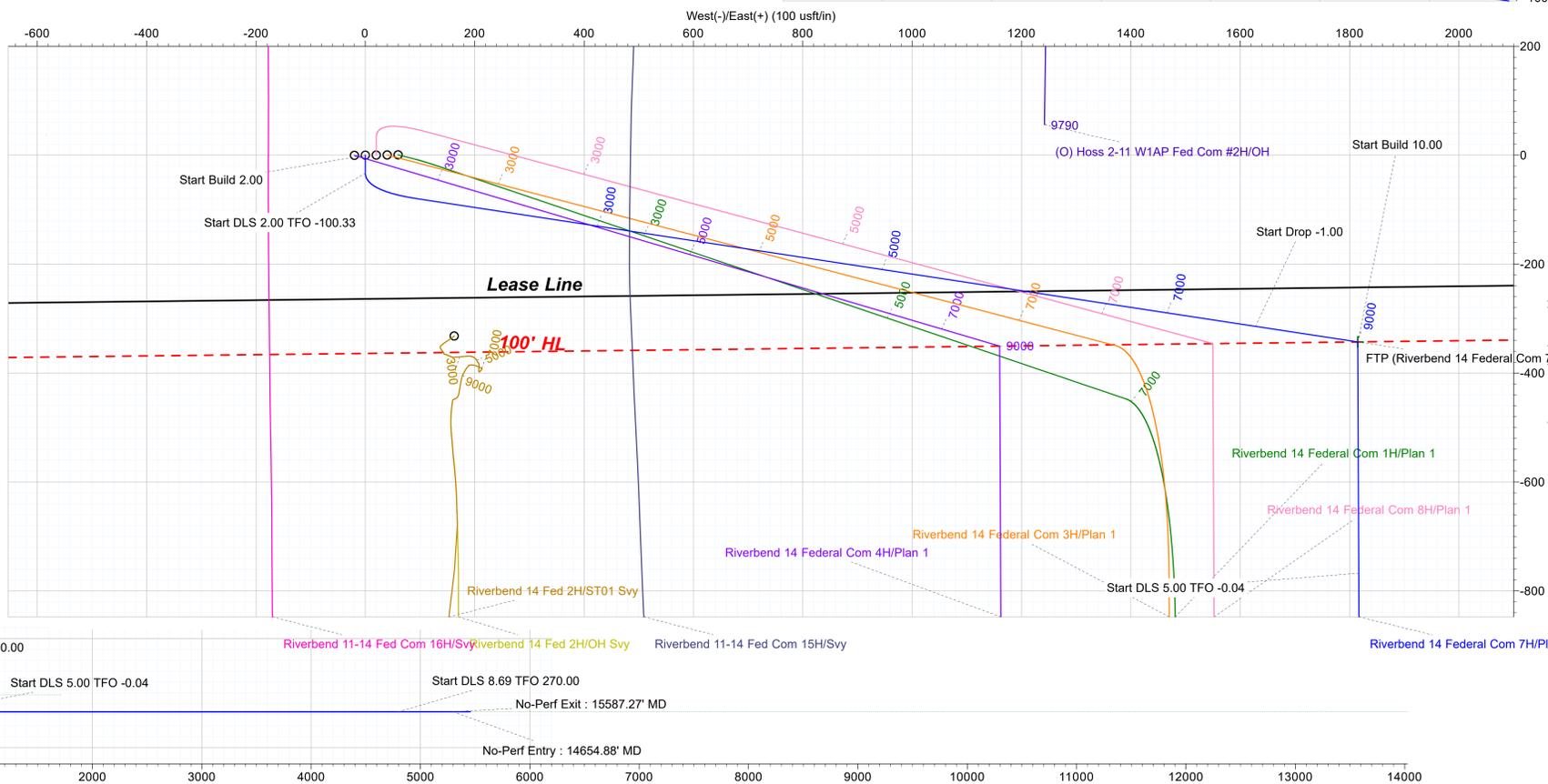
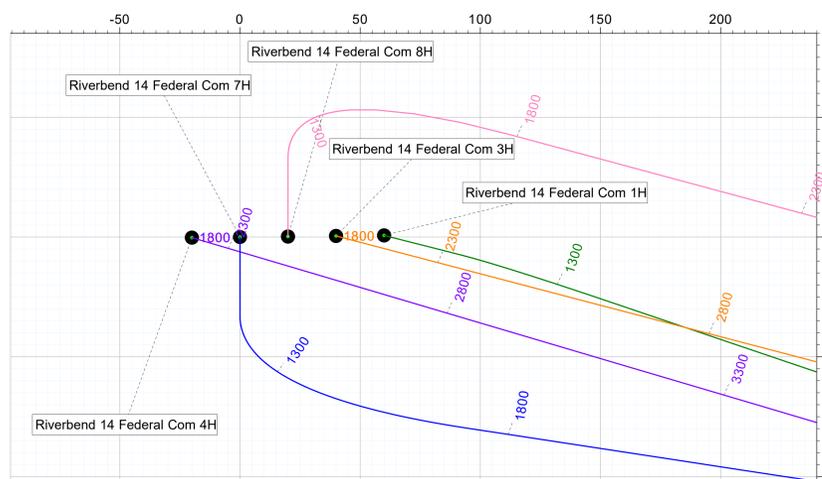
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Riverbend 14 Federal Com 7H)	0.00	-342.81	1814.93	413749.48	627561.78	32.1371696	-104.0547647
KOP 2 (Riverbend 14 Federal Com 7H)	0.00	-4789.97	1834.41	409302.32	627581.26	32.1249446	-104.0547390
LP Crv 2 (Riverbend 14 Federal Com 7H)	0.00	-4780.74	3154.10	409311.55	628900.95	32.1249605	-104.0504759
LPP (Riverbend 14 Federal Com 7H)	0.00	-1555.82	3139.99	412536.47	628886.84	32.1338256	-104.0504942
LTP (Riverbend 14 Federal Com 7H)	0.00	-327.10	3134.61	413765.19	628881.46	32.1372033	-104.0505011
NPZ 1 (Riverbend 14 Federal Com 7H)	0.00	-5294.86	2074.95	408797.43	627821.80	32.1235549	-104.0539662
NPZ 2 (Riverbend 14 Federal Com 7H)	0.00	-5288.94	2920.65	408803.35	628667.50	32.1235652	-104.0512343
Pk Crv 2 (Riverbend 14 Federal Com 7H)	0.00	-5445.20	2498.87	408647.09	628245.72	32.1231386	-104.0525981

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1091.00	1092.61	Rustler
1570.00	1576.40	Top Salt
2362.00	2394.34	Base Salt/Lamar
2550.00	2588.76	Top Delaware Sands/Bell Canyon
3425.00	3493.63	Cherry Canyon
4727.00	4840.09	Brushy Canyon
5670.00	5815.29	Lower Brushy Canyon
6334.00	6501.96	Bone Spring Lime
7260.00	7459.58	1st Bone Spring Sand
7944.00	8164.58	2nd Bone Spring Sand
8304.00	8529.78	3rd Bone Spring Carb
8687.00	8914.86	Harkey SS
9156.00	9384.39	3rd Bone Spring Sand
9518.00	9806.47	WFMP
9673.00	10357.28	WFMP Z LZ



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



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 **UGRID:** 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 7H		Sec 11 T25S, R28E	264 FSL/1820 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 7H		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:	<i>Shelly Bowen</i>
Printed Name:	<input type="text" value="Shelly Bowen"/>
Title:	<input type="text" value="Sr. Regulatory Analyst"/>
E-mail Address:	<input type="text" value="shelly.bowen@coterra.com"/>
Date:	5/14/2025
Phone:	<input type="text" value="432/6201644"/>

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

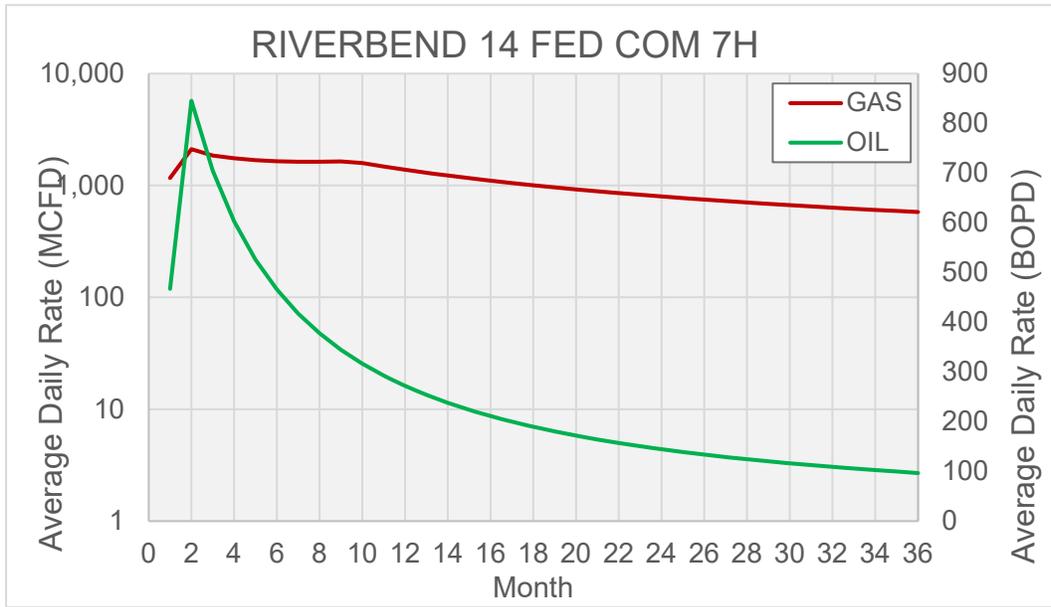
Approved By:
Title:
Approval Date:
Conditions of Approval:

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 7H	RIVERBEND 14 FED COM 7H
GAS MCFD	OIL BOPD
1,168	467
2,113	845
1,852	705
1,750	603
1,685	526
1,647	466
1,630	417
1,628	378
1,641	345
1,589	317
1,479	293
1,383	272
1,300	254
1,227	238
1,162	224
1,104	211
1,051	200
1,004	190
962	180
923	172
887	164
855	157
825	151
797	145
771	139
748	134
725	129
705	124
685	120
667	116
650	112
634	109
619	106
605	103
592	100
579	97

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.
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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.
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 - a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
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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.

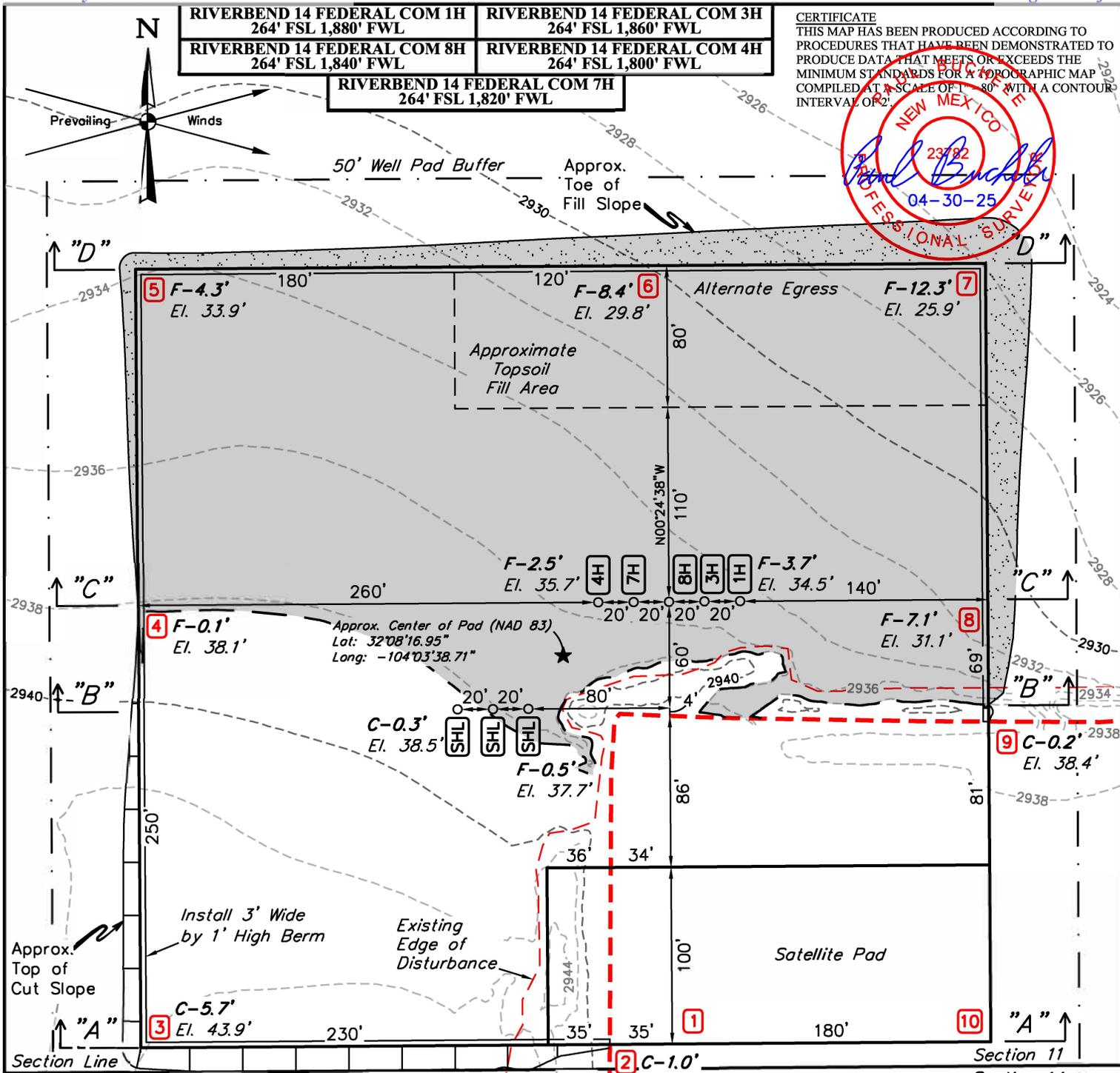
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 - If vapors or trapped pressure is present and must be relieved then:
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 - Route vapors to LP flare if possible/applicable
 - Blowdown to portable gas buster tank:
 - Vent to existing or portable 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.
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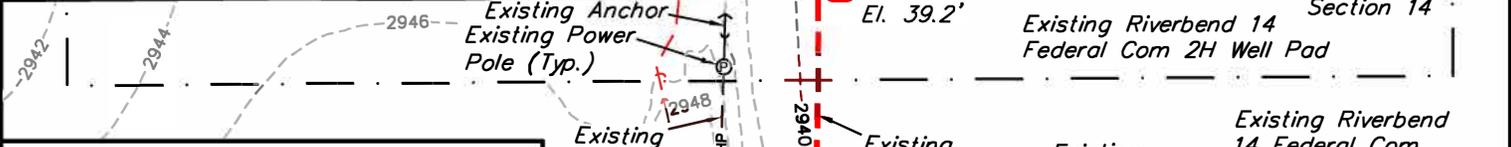
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 - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
 - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and 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.



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'.

NEW MEXICO
PROFESSIONAL SURVEYOR
 23782
 04-30-25



FINISHE DGRADE ELEVATION = 2,938.2'

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	



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 **UGRID:** 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 7H		Sec 11 T25S, R28E	264 FSL/1820 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 7H		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:	<i>Shelly Bowen</i>
Printed Name:	<input type="text" value="Shelly Bowen"/>
Title:	<input type="text" value="Sr. Regulatory Analyst"/>
E-mail Address:	<input type="text" value="shelly.bowen@coterra.com"/>
Date:	5/14/2025
Phone:	<input type="text" value="432/6201644"/>

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

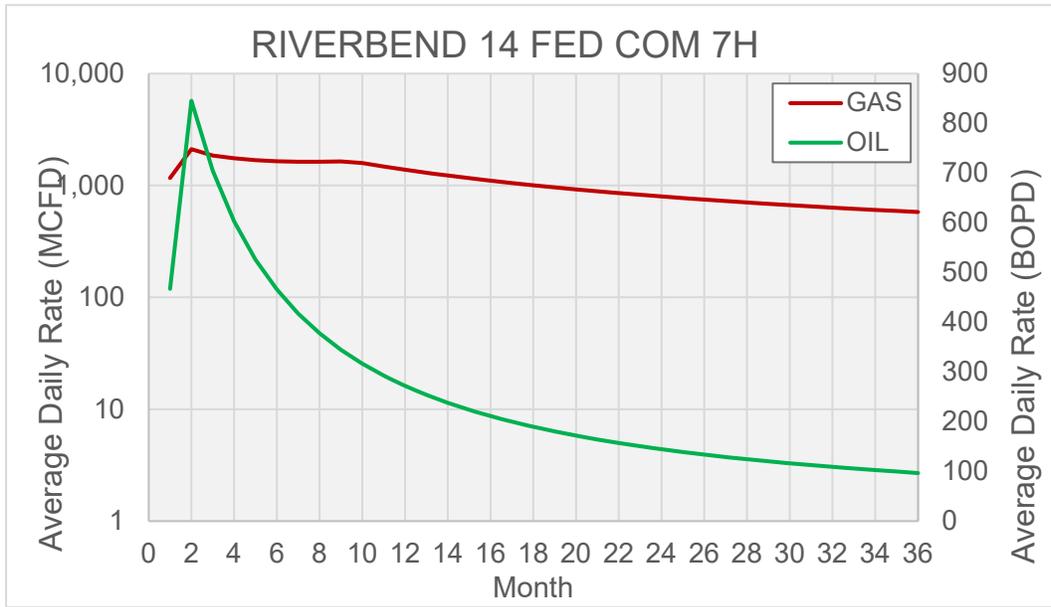
Approved By:
Title:
Approval Date:
Conditions of Approval:

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 7H	RIVERBEND 14 FED COM 7H
GAS MCFD	OIL BOPD
1,168	467
2,113	845
1,852	705
1,750	603
1,685	526
1,647	466
1,630	417
1,628	378
1,641	345
1,589	317
1,479	293
1,383	272
1,300	254
1,227	238
1,162	224
1,104	211
1,051	200
1,004	190
962	180
923	172
887	164
855	157
825	151
797	145
771	139
748	134
725	129
705	124
685	120
667	116
650	112
634	109
619	106
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Cimarex

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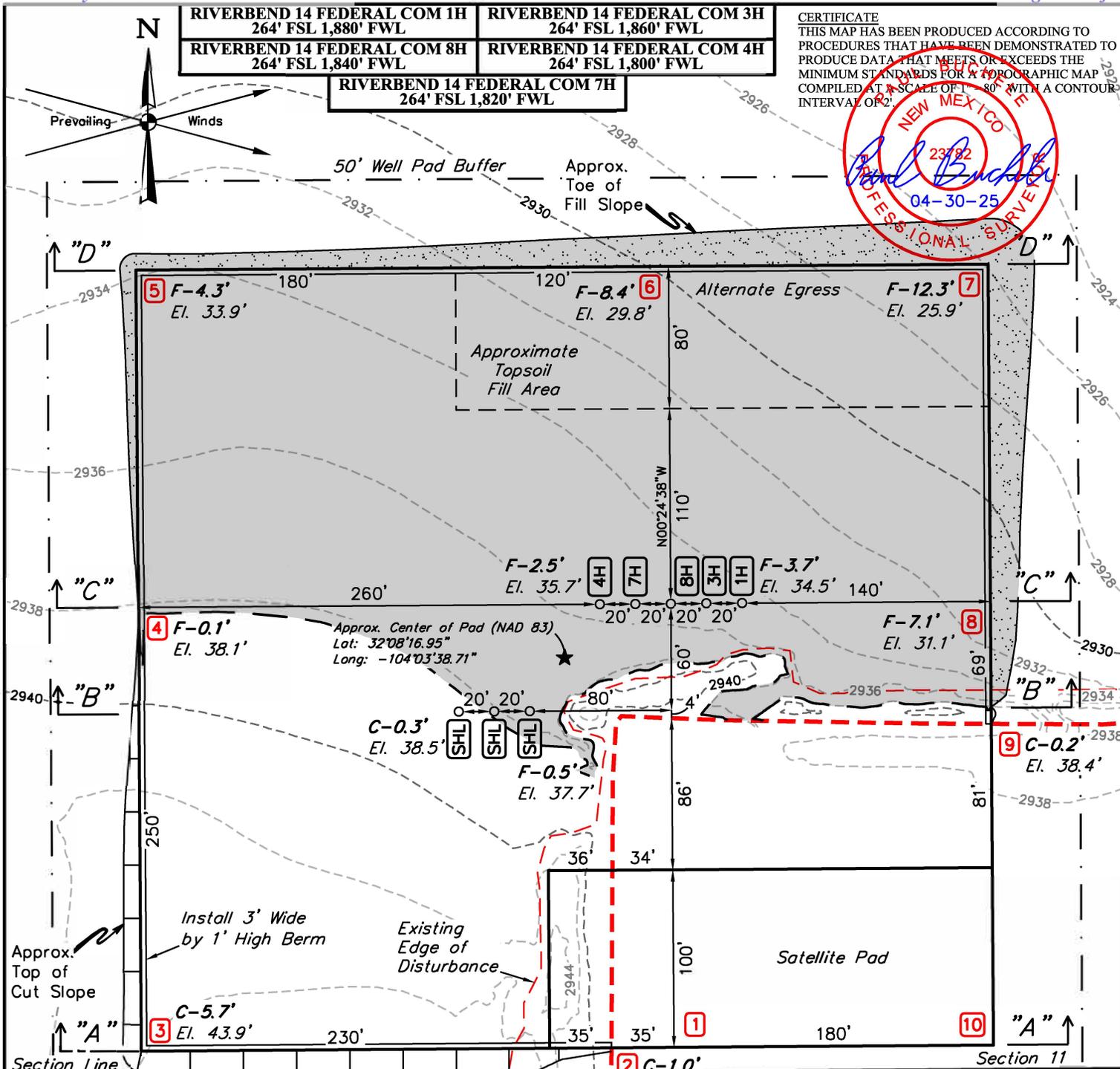
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 - Cut/Fill slopes 2:1 (Typ.)
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CIMAREX ENERGY CO.

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'

UINTEAH
ENGINEERING & LAND SURVEYING

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

LOCATION LAYOUT | **EXHIBIT J**

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.



CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B

No: 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 3 rd edition
Temperature Range	-29℃ ~+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3 rd edition
Size and Lengths	In accordance with API Spec 16C 3 rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3 rd edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21 st edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3 rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3 rd edition
product Marking	In accordance with API Spec 16C 3 rd edition

Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition
-----------------------	--

Remarks	16C-0403 
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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HYDROSTATIC TESTING REPORT

LTYT/QR-5.7.1-28

No: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd 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

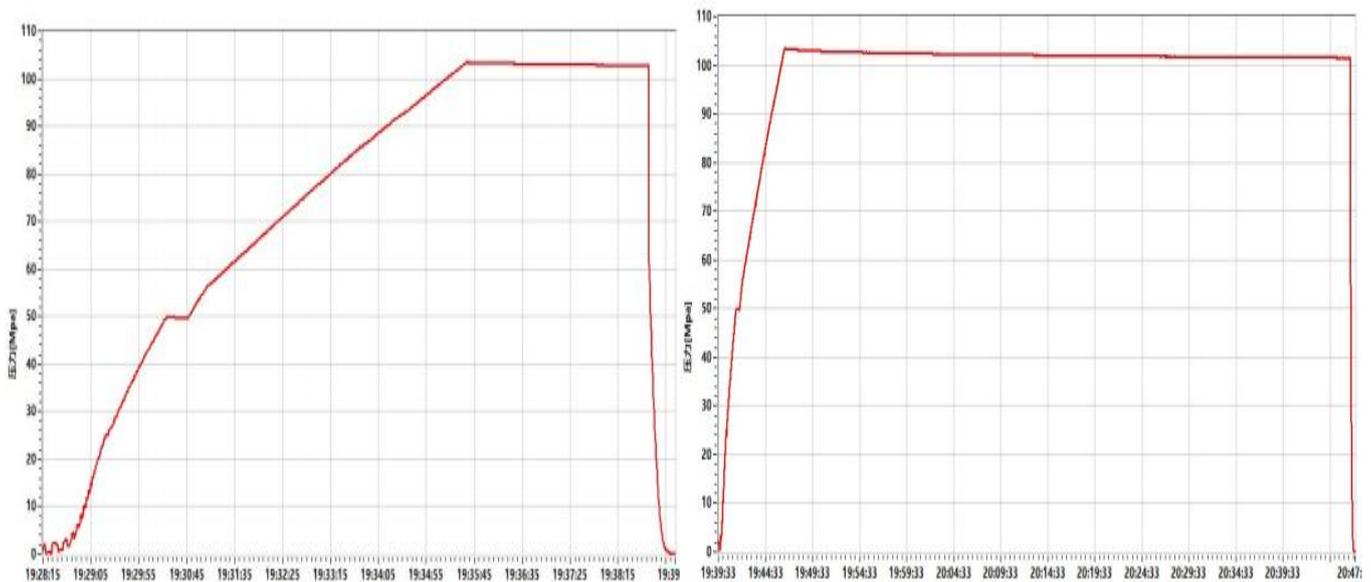
Rate of length change

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 3 rd edition		16C-0403	
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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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.



CERTIFICATE OF QUALITY

LTYQ/QR-5.7.1-19B

No: 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 3 rd edition
Temperature Range	-29℃ ~+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3 rd edition
Size and Lengths	In accordance with API Spec 16C 3 rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3 rd edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21 st edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3 rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3 rd edition
product Marking	In accordance with API Spec 16C 3 rd edition

Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition
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Remarks	16C-0403 
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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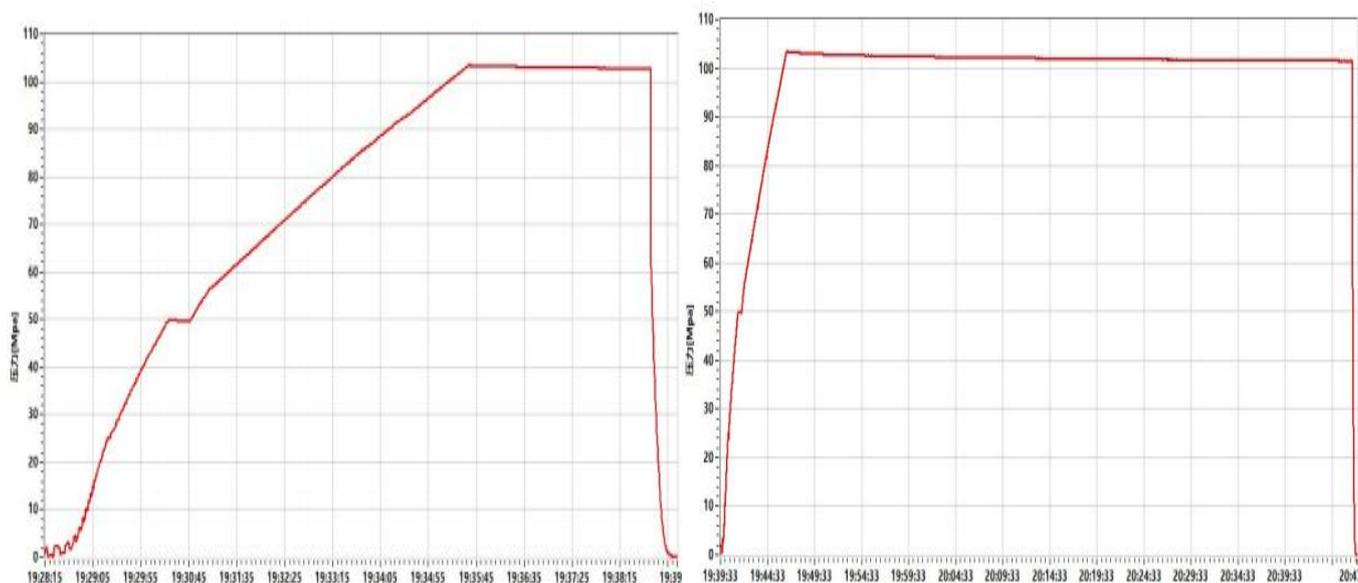
HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

No: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd 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 3 rd edition		16C-0403 	
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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SUPO Data Report

12/19/2025

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

APD ID: 10400105781

Submission Date: 07/30/2025

Highlighted data reflects the most recent changes

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

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_20250912084122.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: 7H

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_20250912084139.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

RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250912084157.pdf

D_24550_20_100_GENERAL_ARRANGEMENT_PLOT_PLAN_Rev.0__1__20250912084212.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: 7H

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_20250915163056.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: 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:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

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_FEDERAL_E2W2_bulk_line_row_plat_20250912084303.pdf
- RIVERBEND_14_FEDERAL_E2W2_surface_use_plat_20250912084303.pdf
- RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250912084303.pdf
- RIVERBEND_14_FEDERAL_E2W2_powerline_row_plat_20250912084303.pdf
- RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250912084315.pdf

Comments:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

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_20250912084335.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: 3.860000000000003	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: 7H

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	
Seed Type	Pounds/Acre

Total 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: 7H

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: 7H

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: 7H

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.

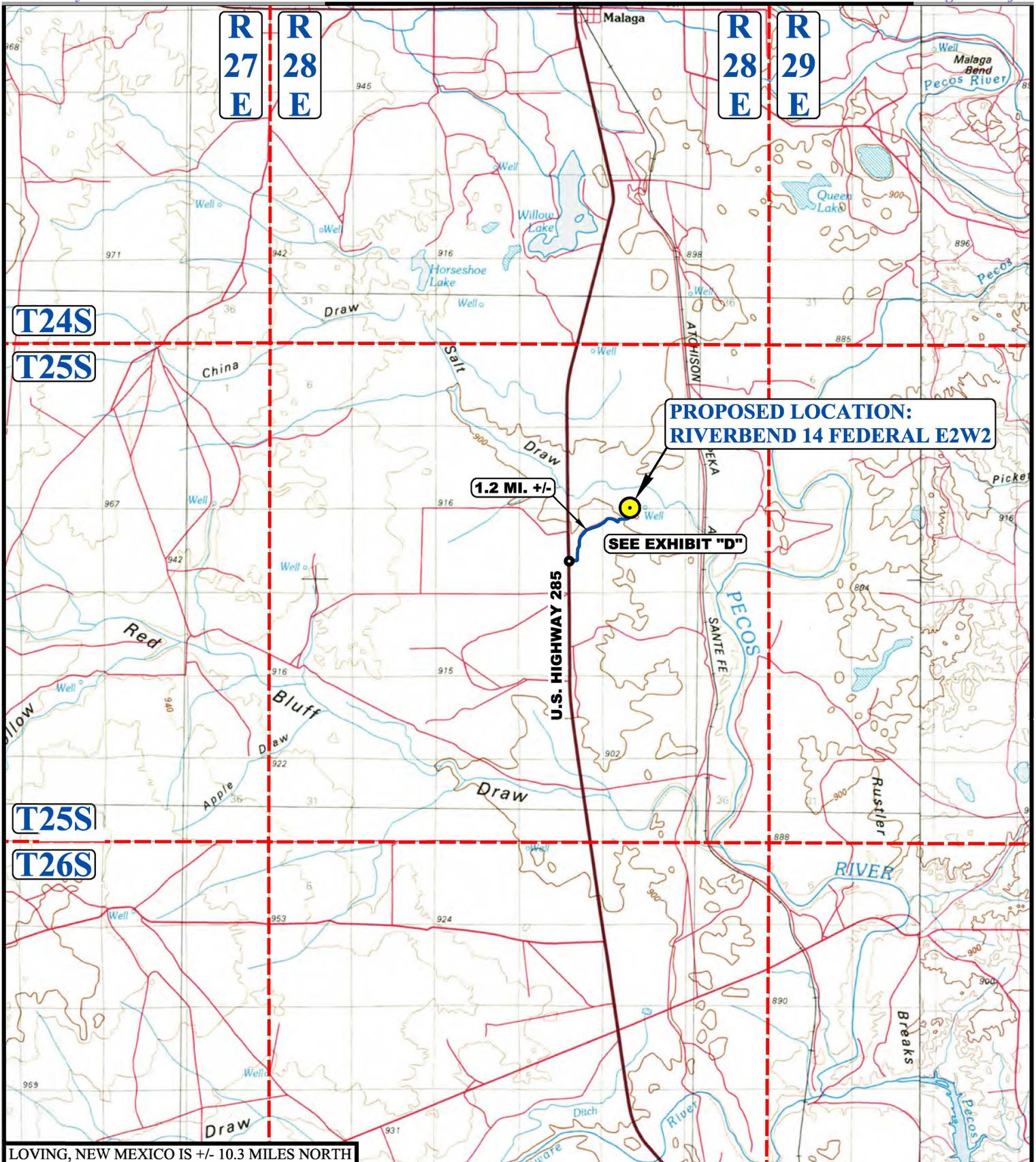
**RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

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

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**



CIMARE X ENERGY CO.

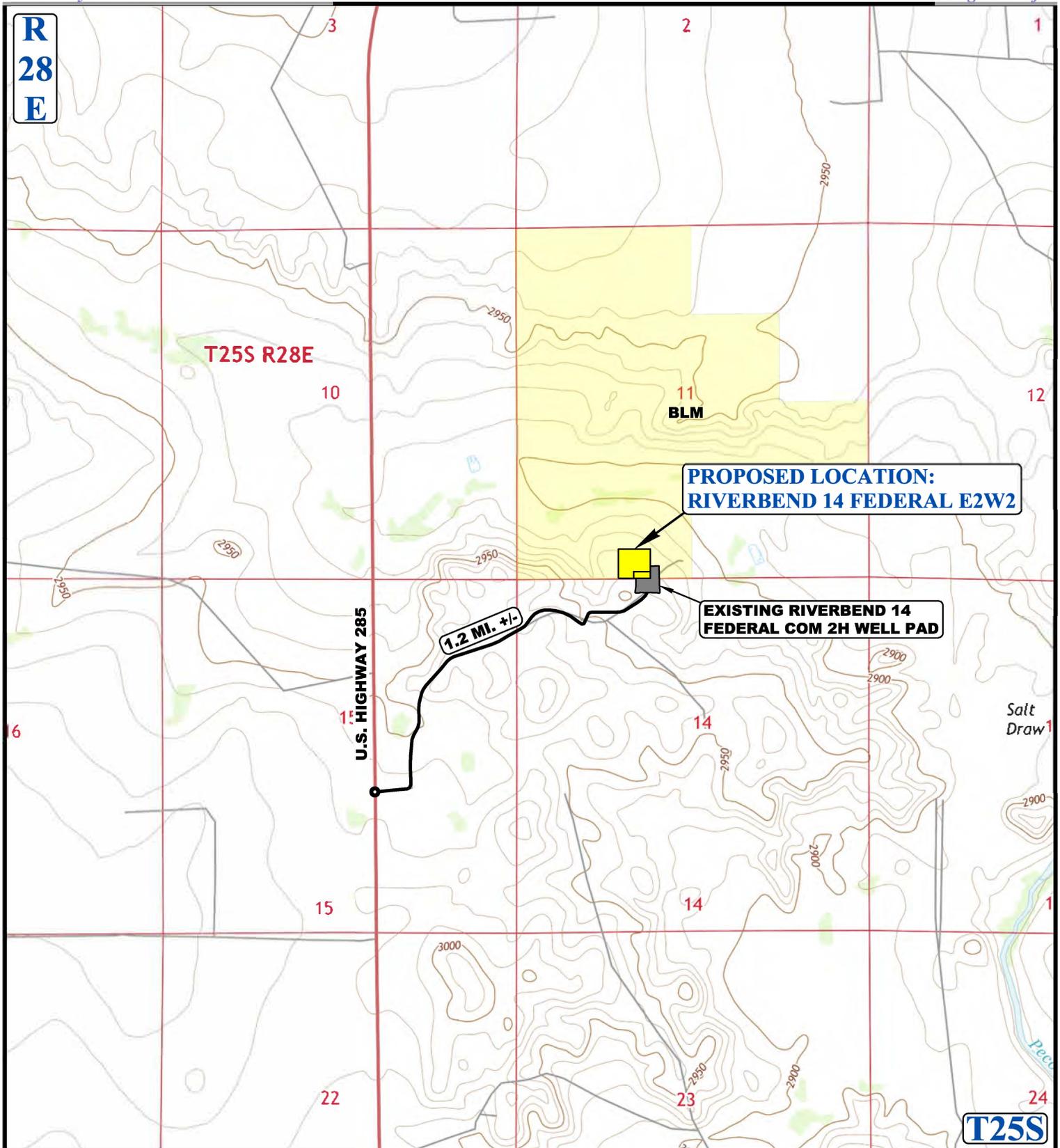
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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



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



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



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.

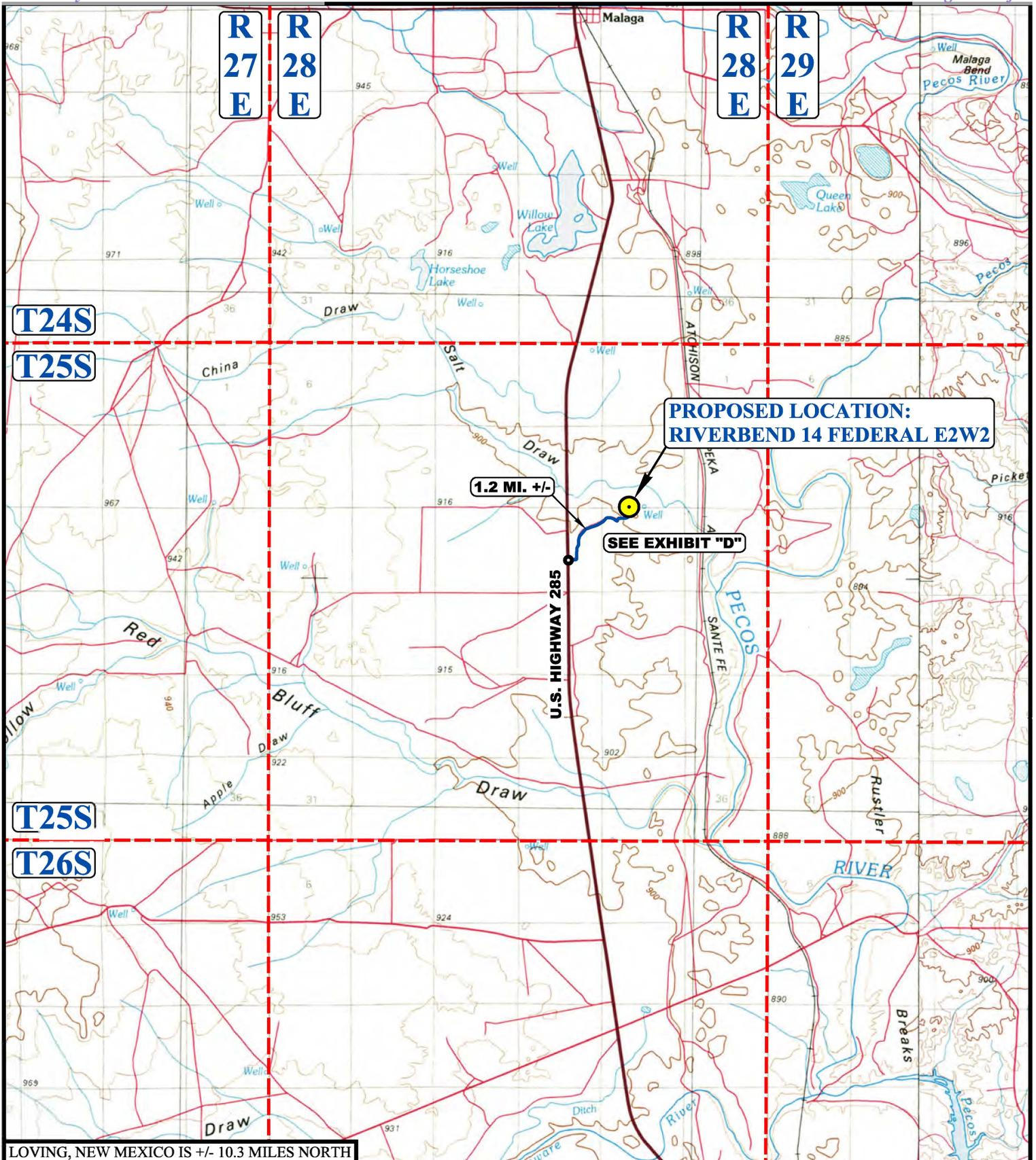
**RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

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

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**



CIMARE X ENERGY CO.

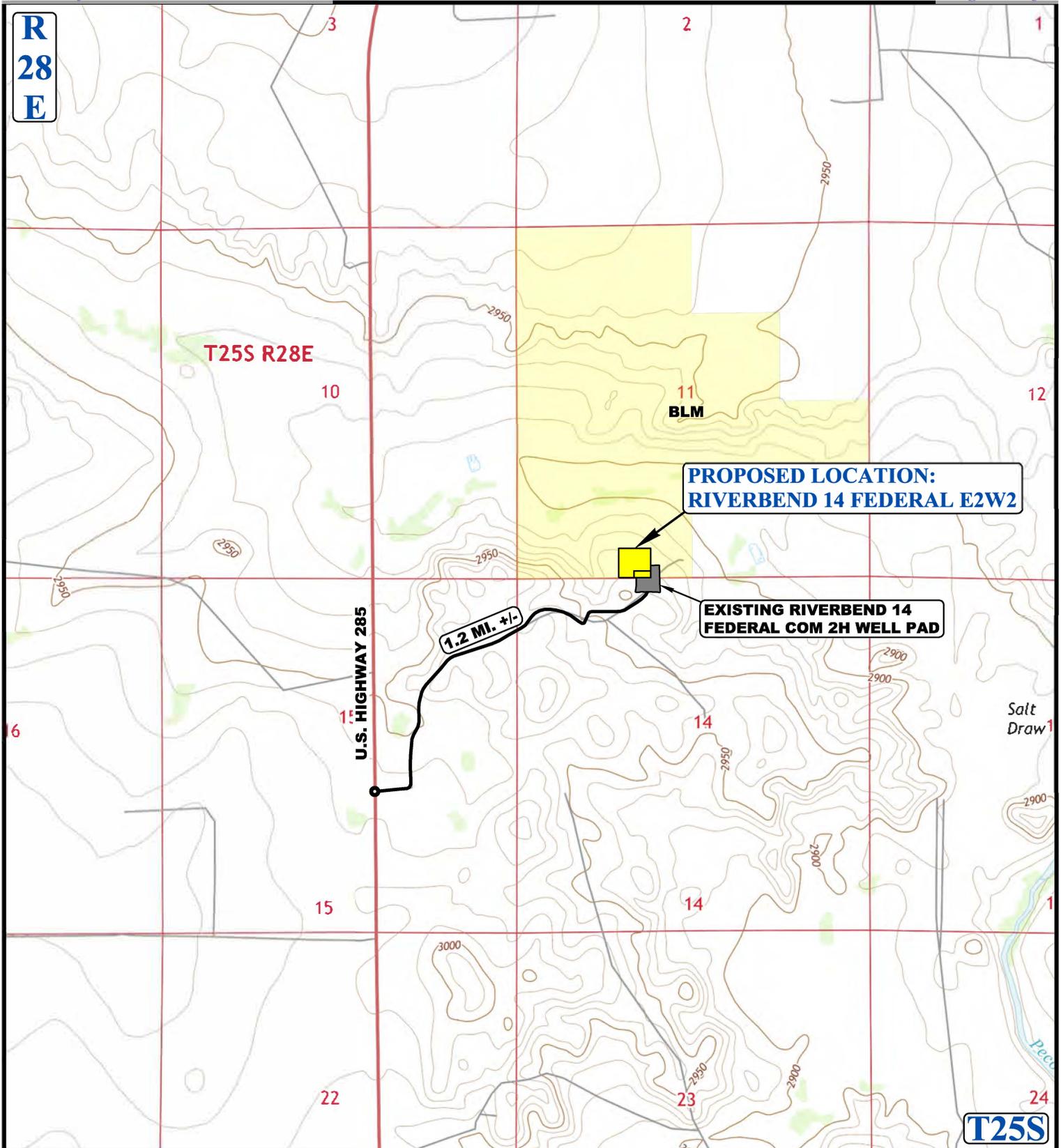
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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



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



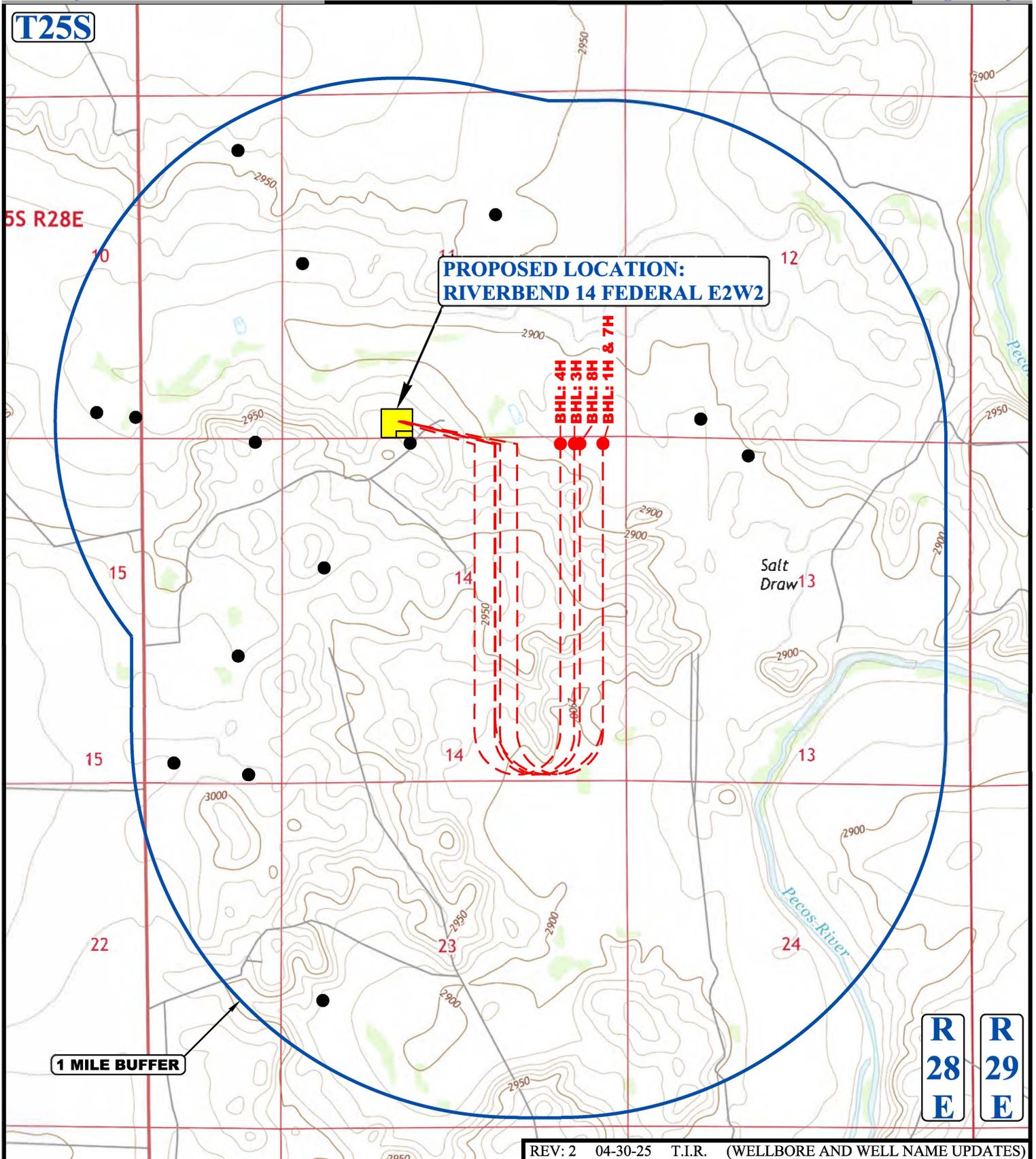
CIMAREX ENERGY CO.

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



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



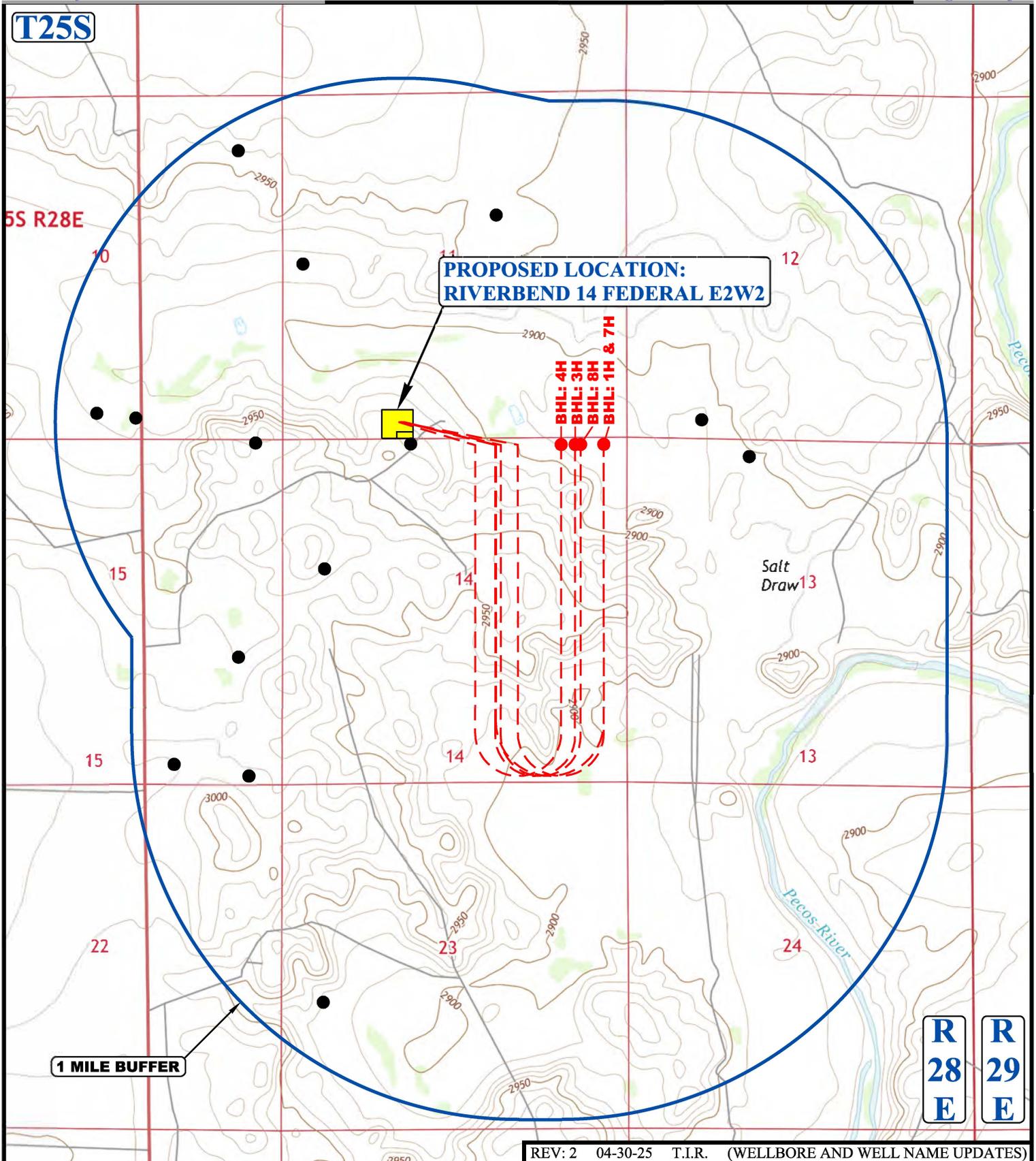
CIMARE X ENERGY CO.

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



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



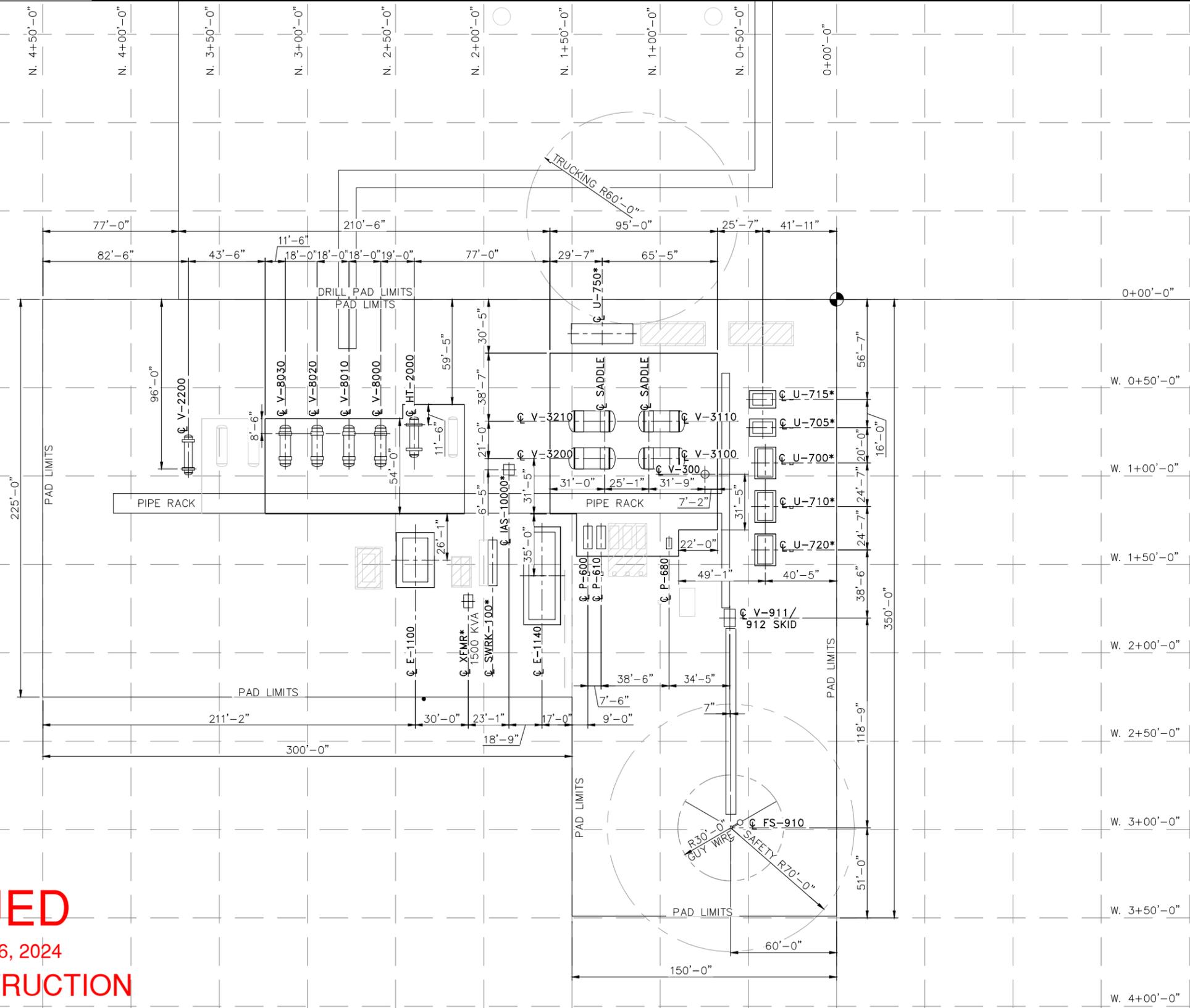
CIMARE X ENERGY CO.

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



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



EQUIPMENT		
TAG	DESCRIPTION	HP
V-300	VAPOR RECOVERY TOWER 36" OD x 40' S/S	
P-600	SKIDDED TRANSFER PUMP	100
P-610	SKIDDED TRANSFER PUMP	100
P-680	PCP RECIRCULATION PUMP	5
U-700	FX12V125	125
U-705	G10	100
U-710	FX17V150	150
U-715	G10	100
U-720	FX17V150	150
U-750	PIPELINE W/ BOOSTER	210
FS-910	TRIPOD 3.0/1.5 MMSCFD DUAL FLARE STACK	20
V-911/912	FS-910 DUAL SCRUBBER SKID	3
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

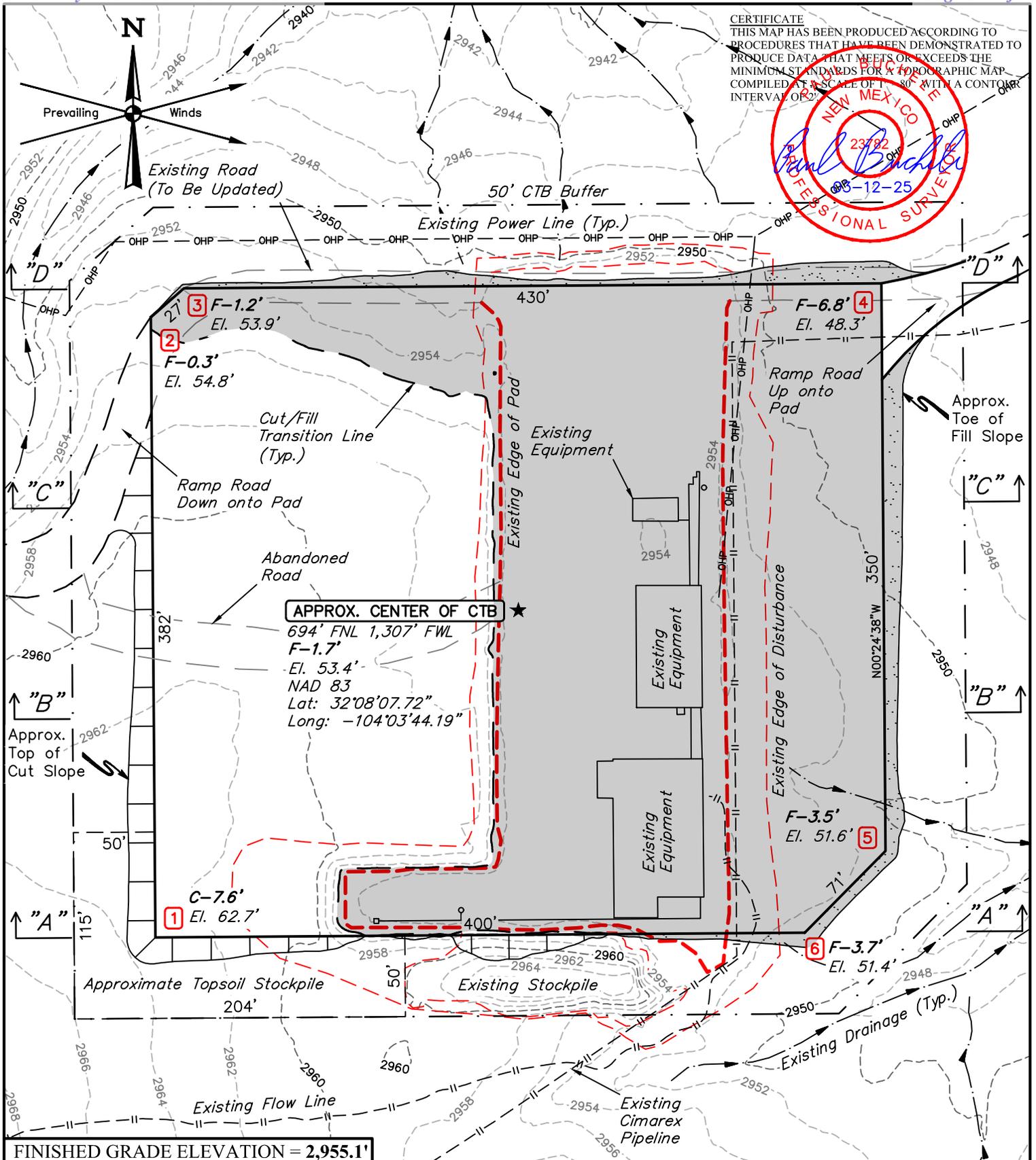
REFERENCE DRAWINGS		REVISIONS					
NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.
		0	08/06/24	ISSUED FOR CONSTRUCTION	NR	JNM	

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	LEA COUNTY NM
PROJ. ENGR. J. MEDINA	PLOT SCALE NONE DWG. NO. D-24550-20-100
SCALE: NONE	CAD NO.

COTERRA
 TRISTE DRAW 36-25 FED COM
 GENERAL ARRANGEMENT PLOT PLAN
 LEA COUNTY NM
 DWG. NO. D-24550-20-100
 REV 0



- 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.

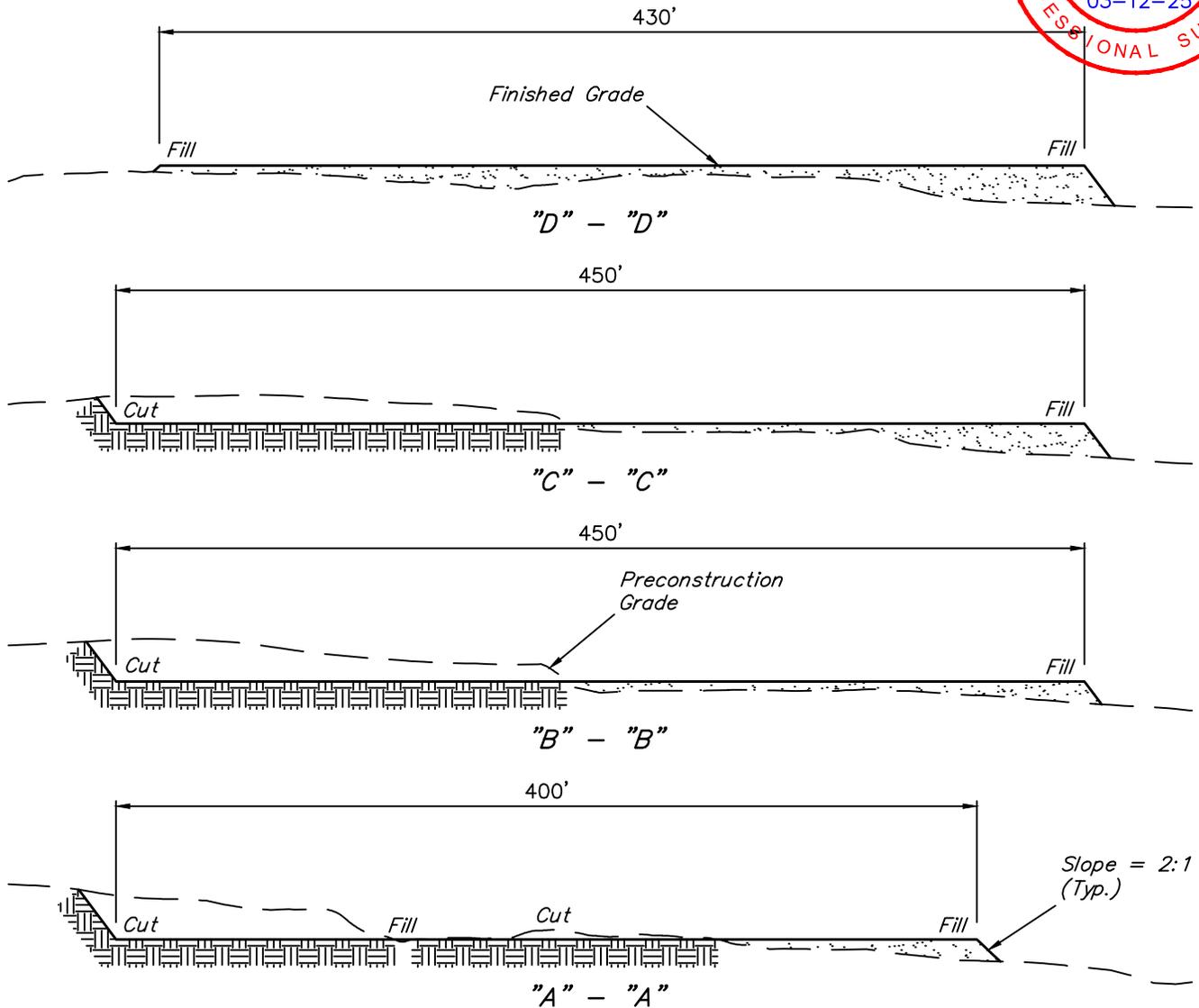
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
LOCATION LAYOUT		EXHIBIT F	



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 Vernal, UT 84078 * (435) 789-1017

X-Section Scale
1" = 80'



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.

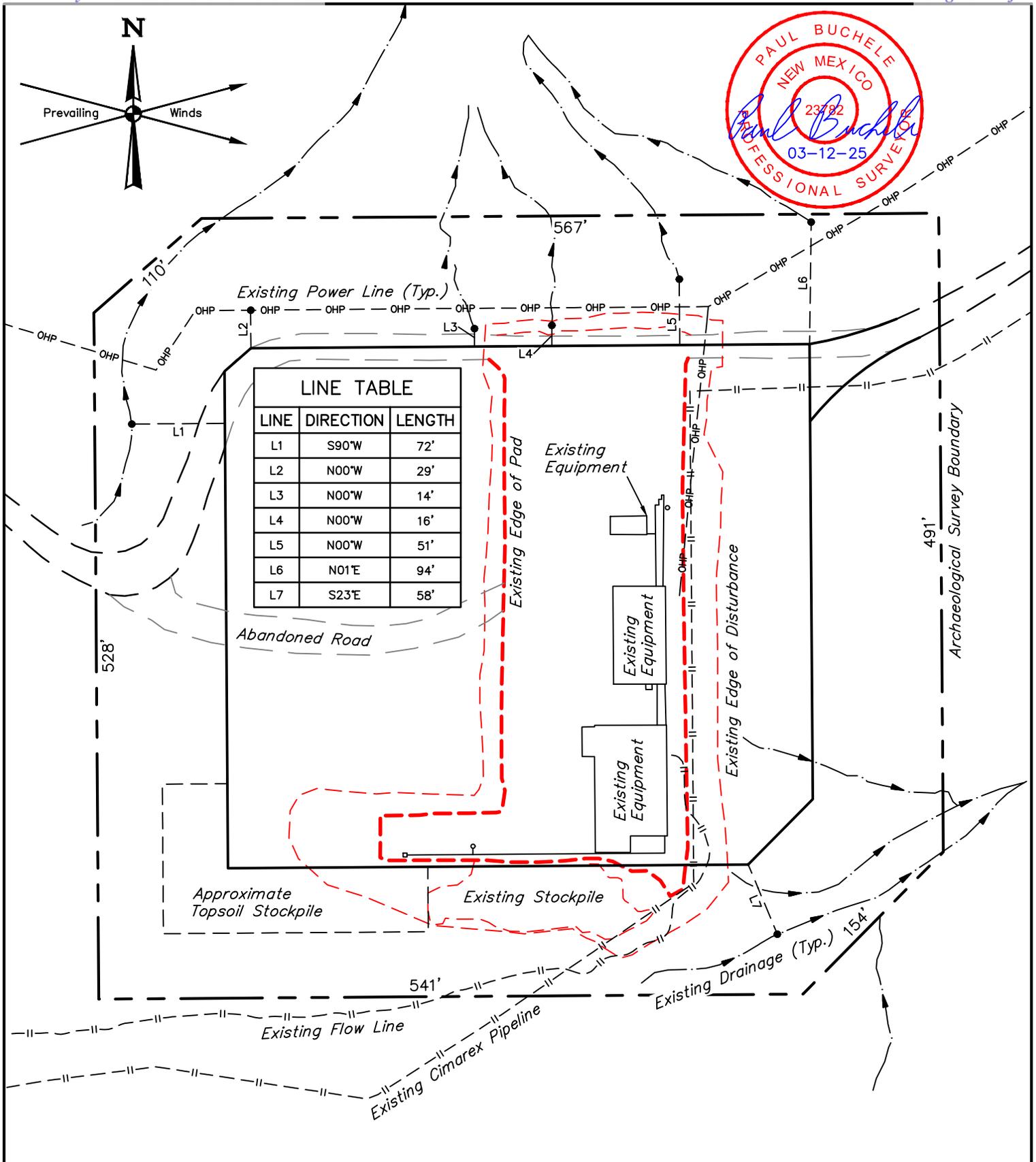
CIMAREX ENERGY CO.

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



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NOTES:

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

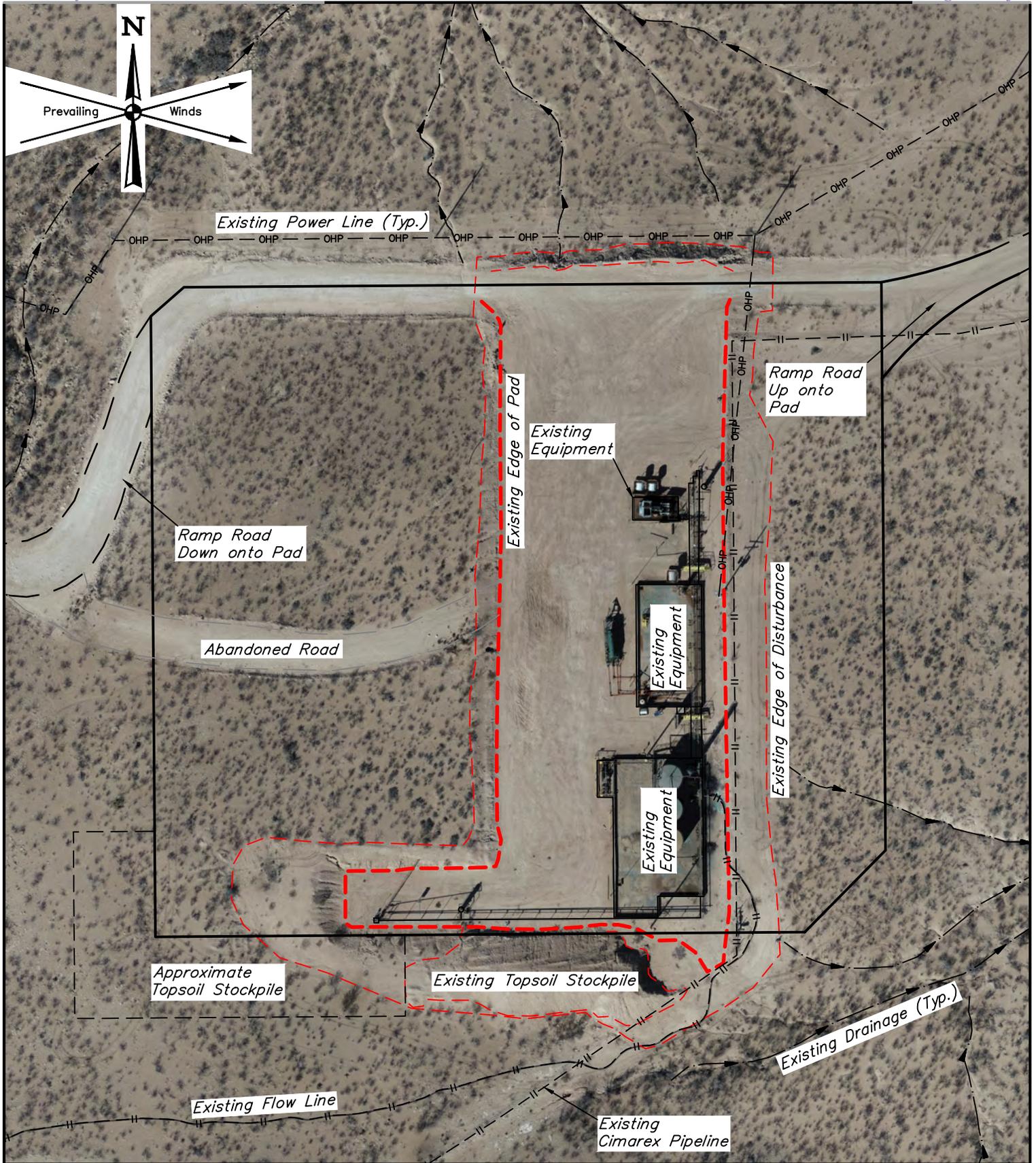
CIMAREX ENERGY CO.

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



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- 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



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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.

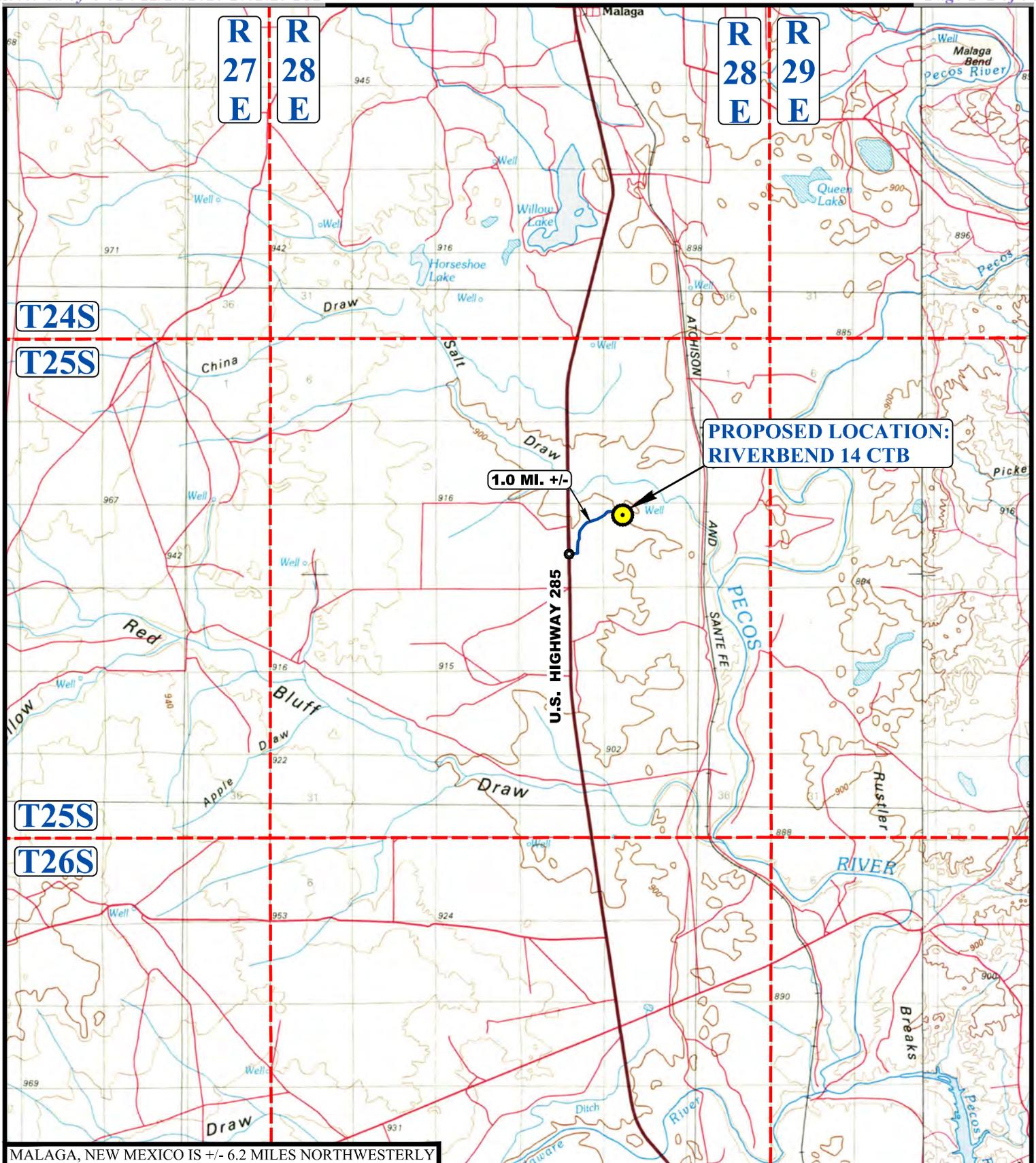
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
NW 1/4 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	
ROAD DESCRIPTION		EXHIBIT F	

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**



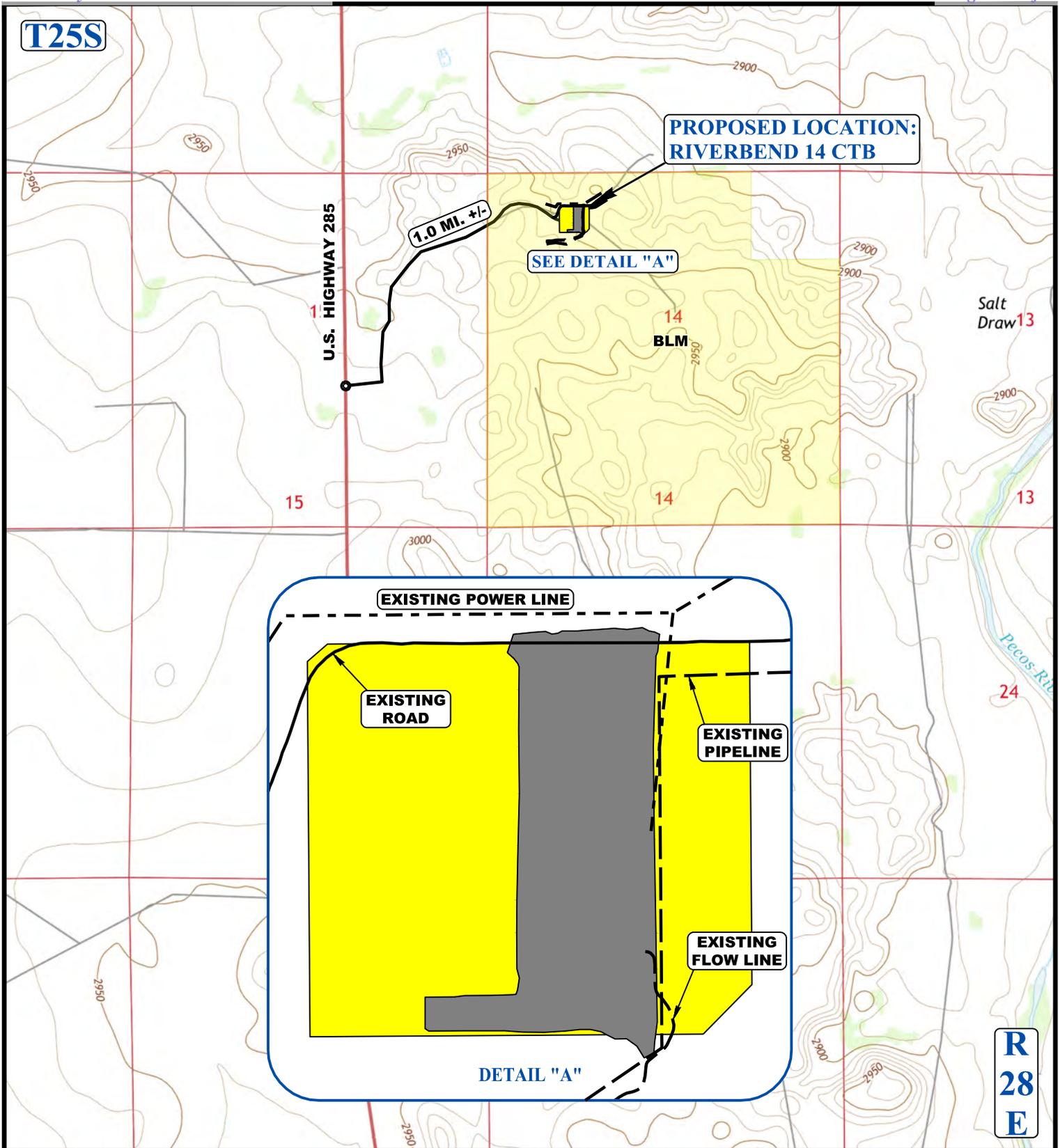
CIMAREX ENERGY CO.

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



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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



CIMAREX ENERGY CO.

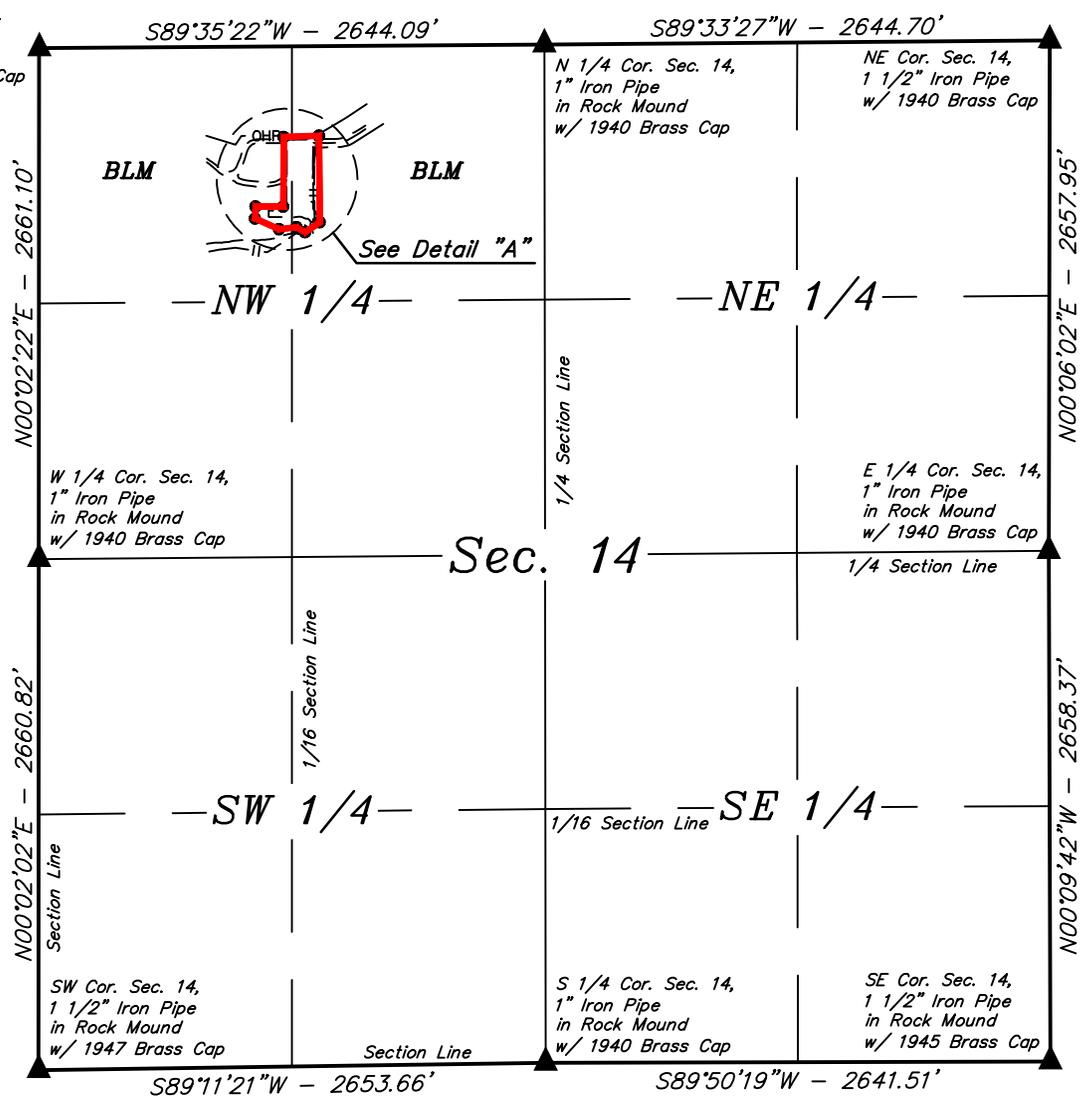
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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



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 Vernal, UT 84078 * (435) 789-1017

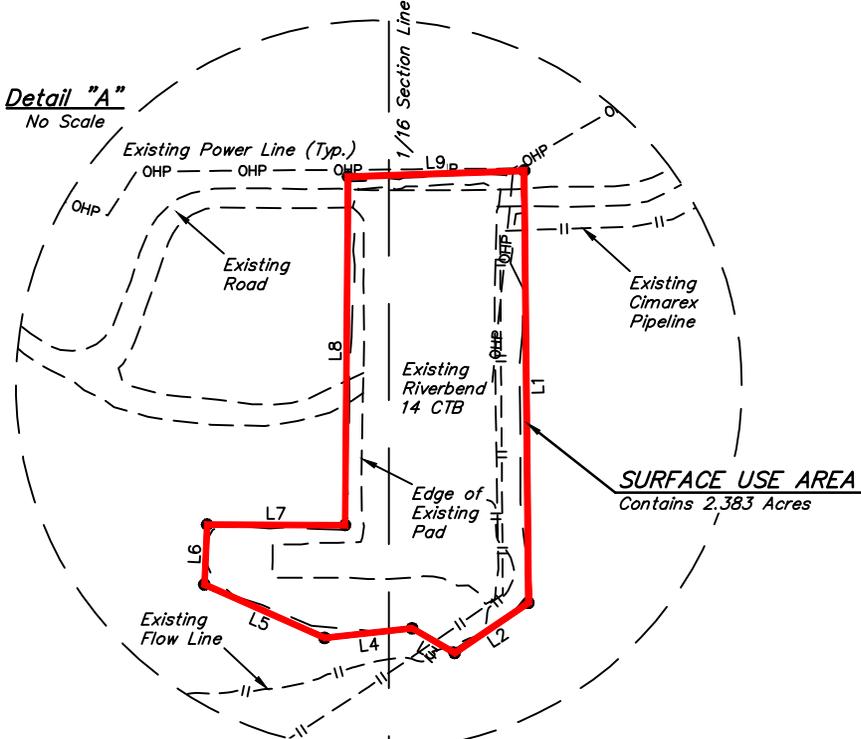
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'



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°08'24"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.

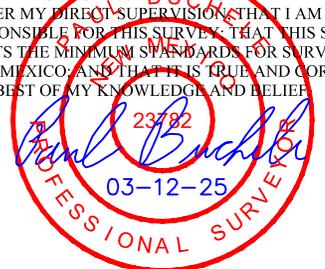
POINT OF BEGINNING BEARS S68°03'17"W 1272.60' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.



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.



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

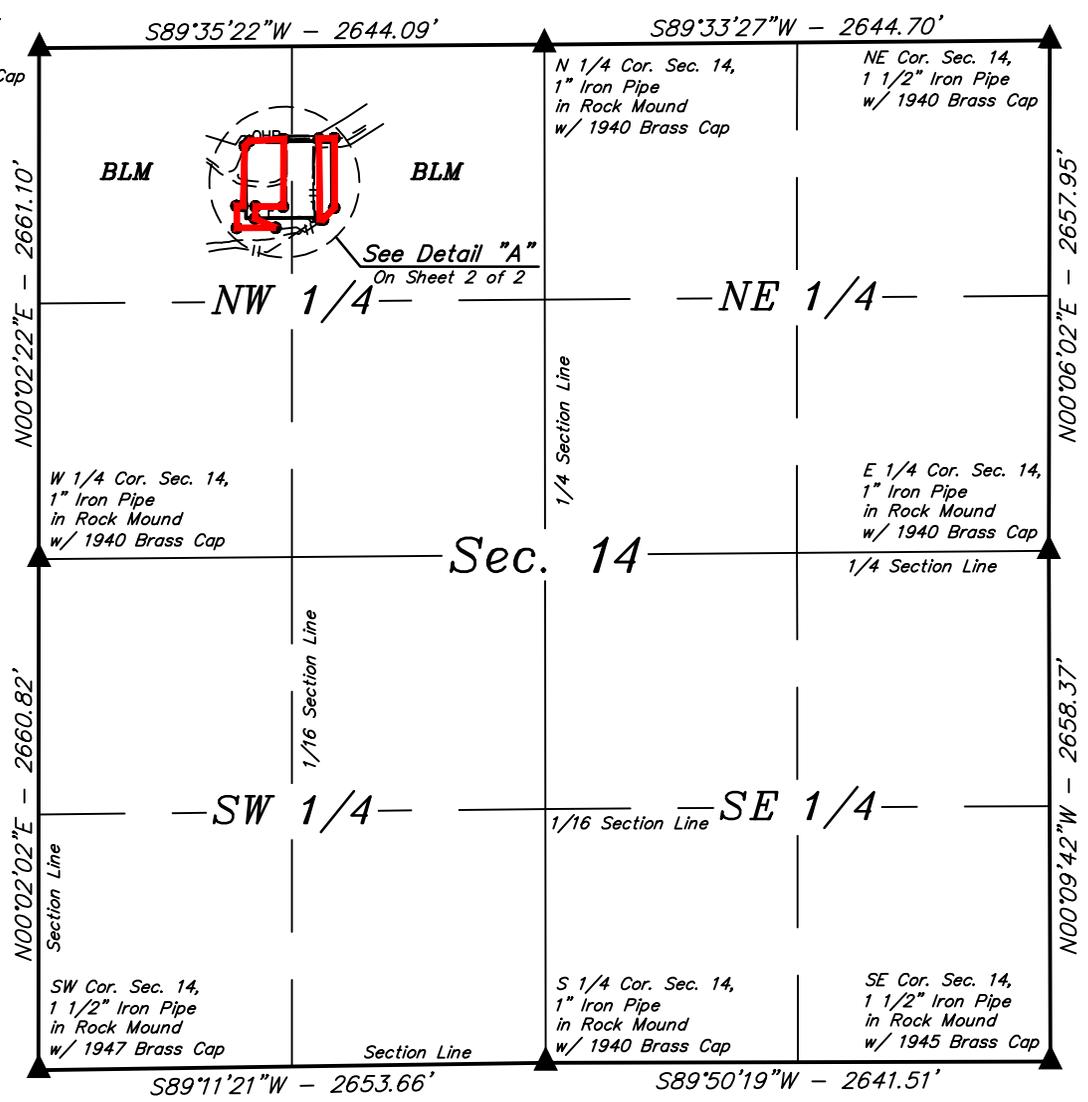
SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		

EXISTING SURFACE USE AREA EXHIBIT F



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 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.

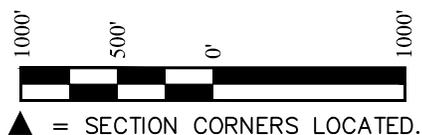
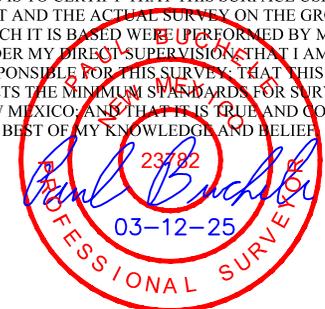
POINT OF BEGINNING "A" BEARS S64°40'24"E 1189.56' FROM THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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

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.



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-A1		

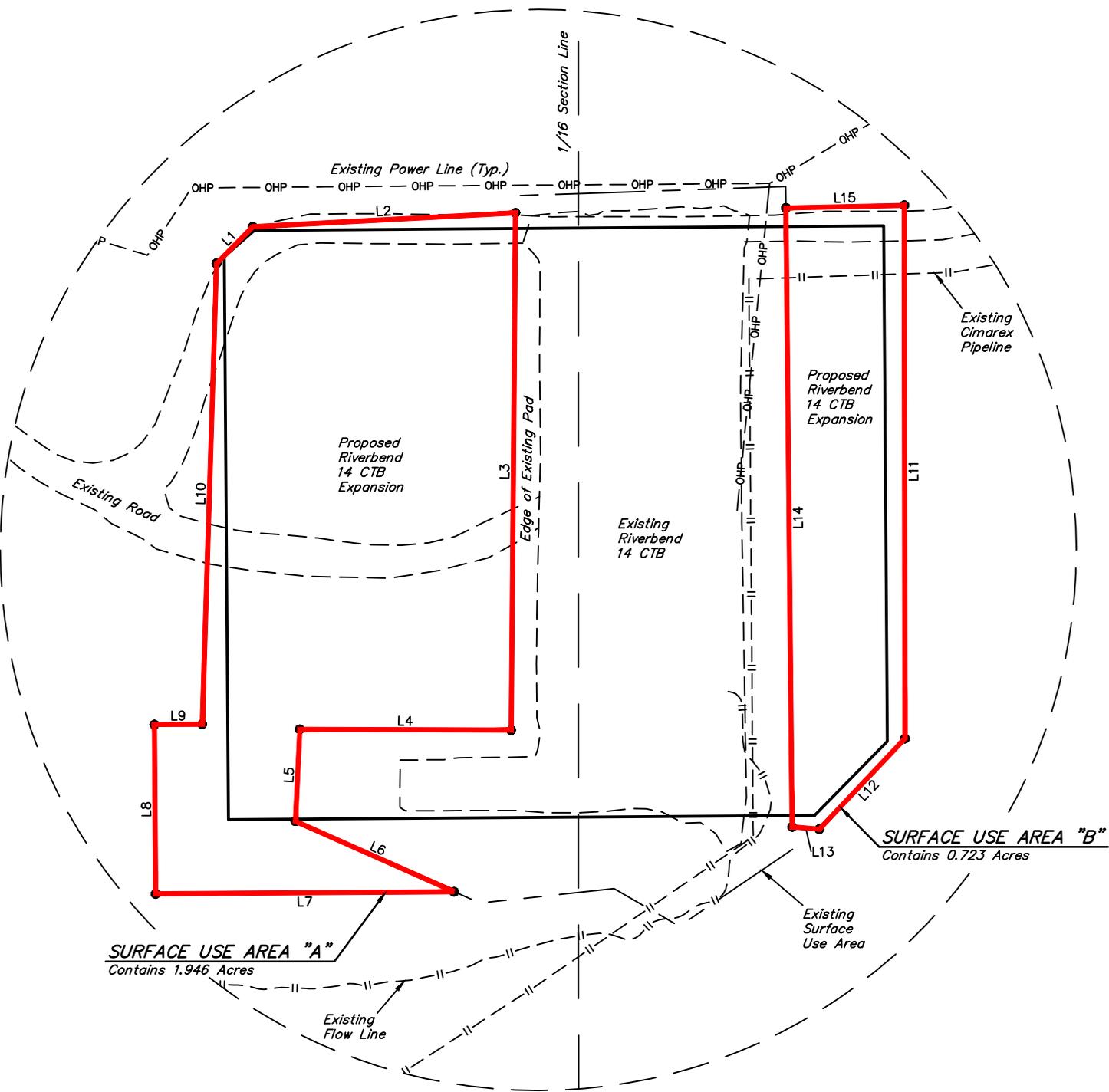
EXPANSION SURFACE USE AREA EXHIBIT F



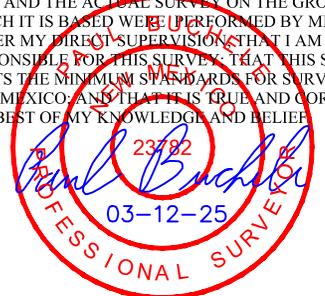
UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



Detail "A"
No Scale



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.



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



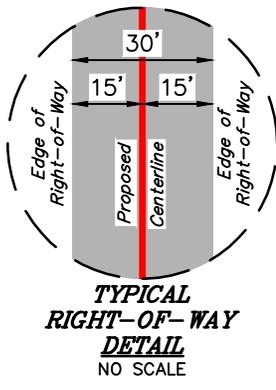
UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



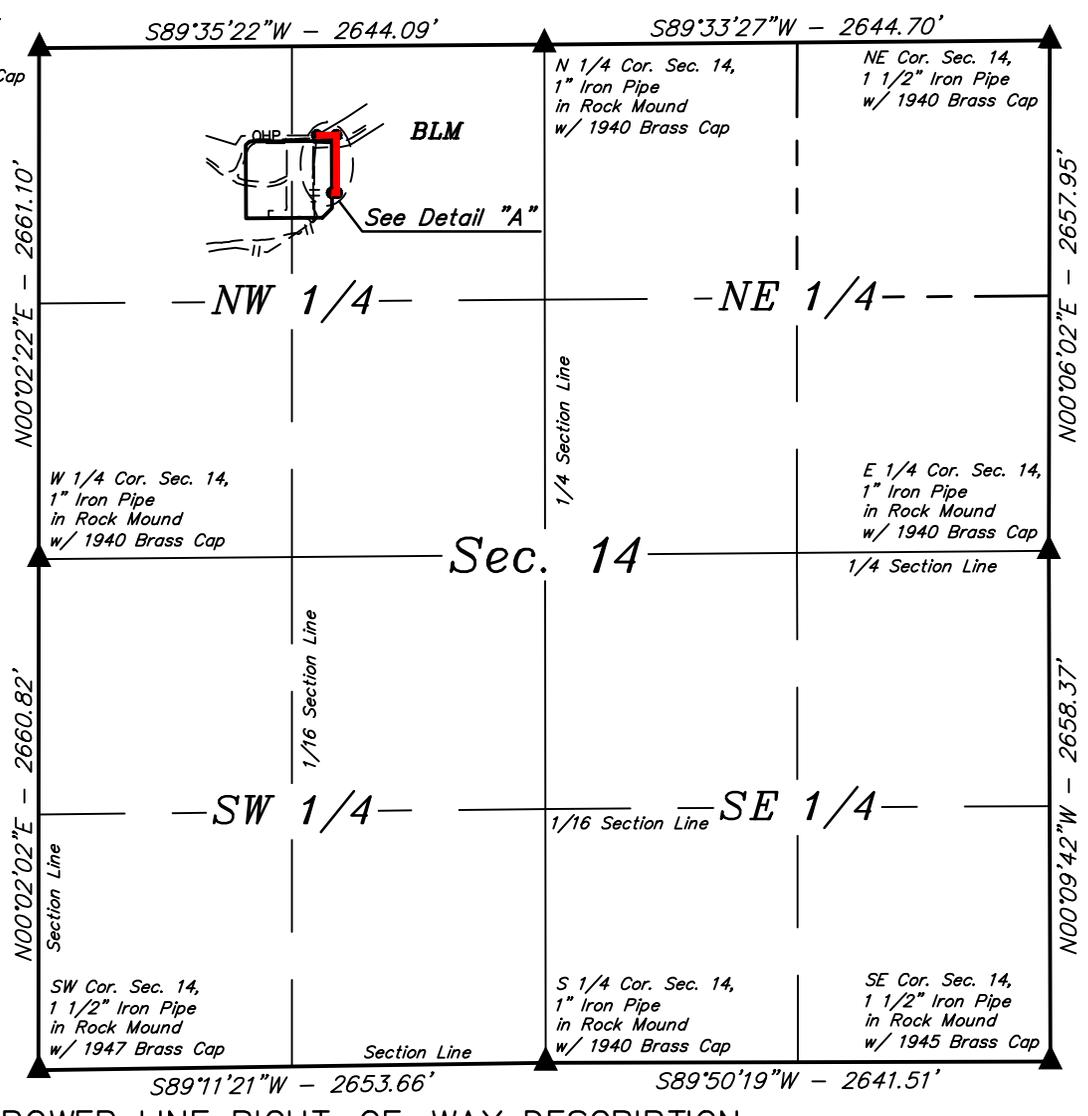
CIMAREX ENERGY CO.
RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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**

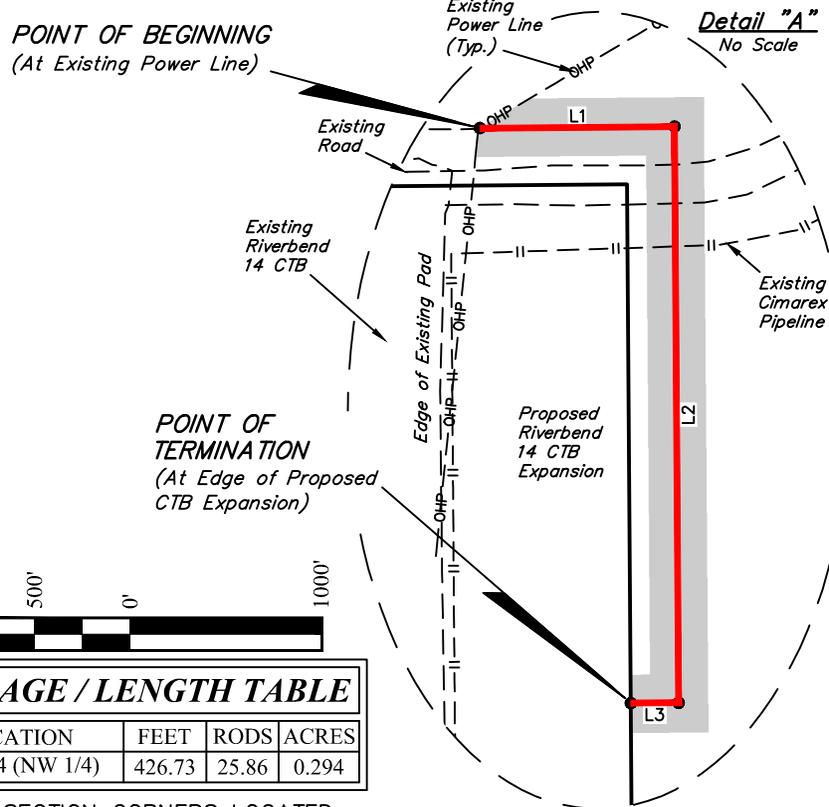


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°33'26"E	101.78'
L2	S00°24'38"E	299.95'
L3	S89°35'22"W	25.00'



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

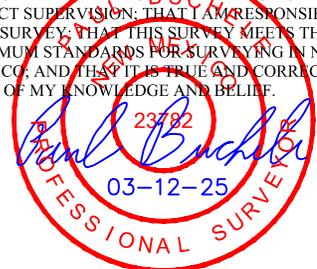
COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 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.

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.



ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	426.73	25.86	0.294

▲ = SECTION CORNERS LOCATED.

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



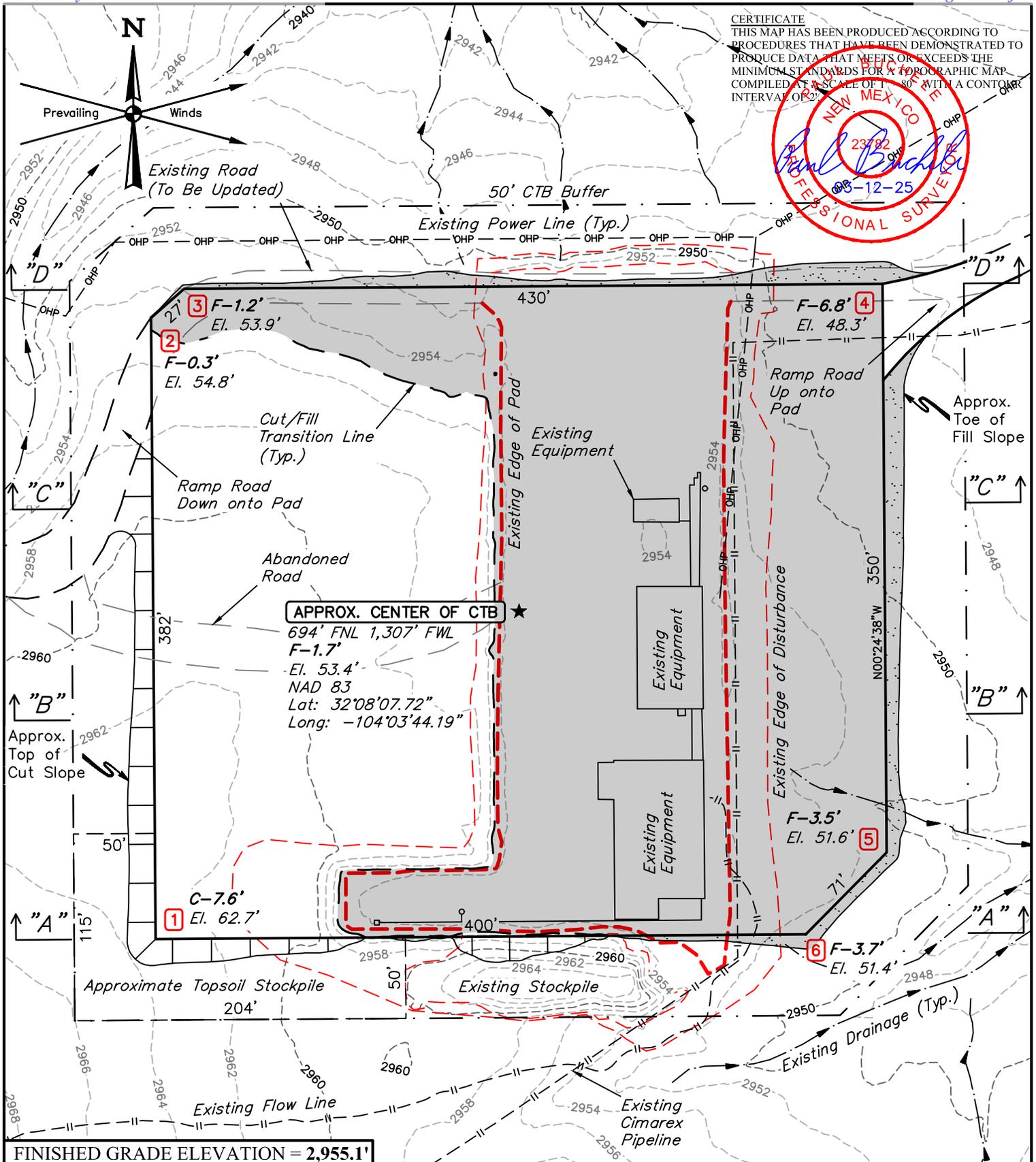
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



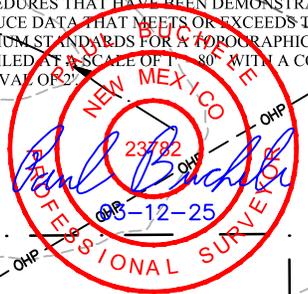
CIMAREX ENERGY CO.
RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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**



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'



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.

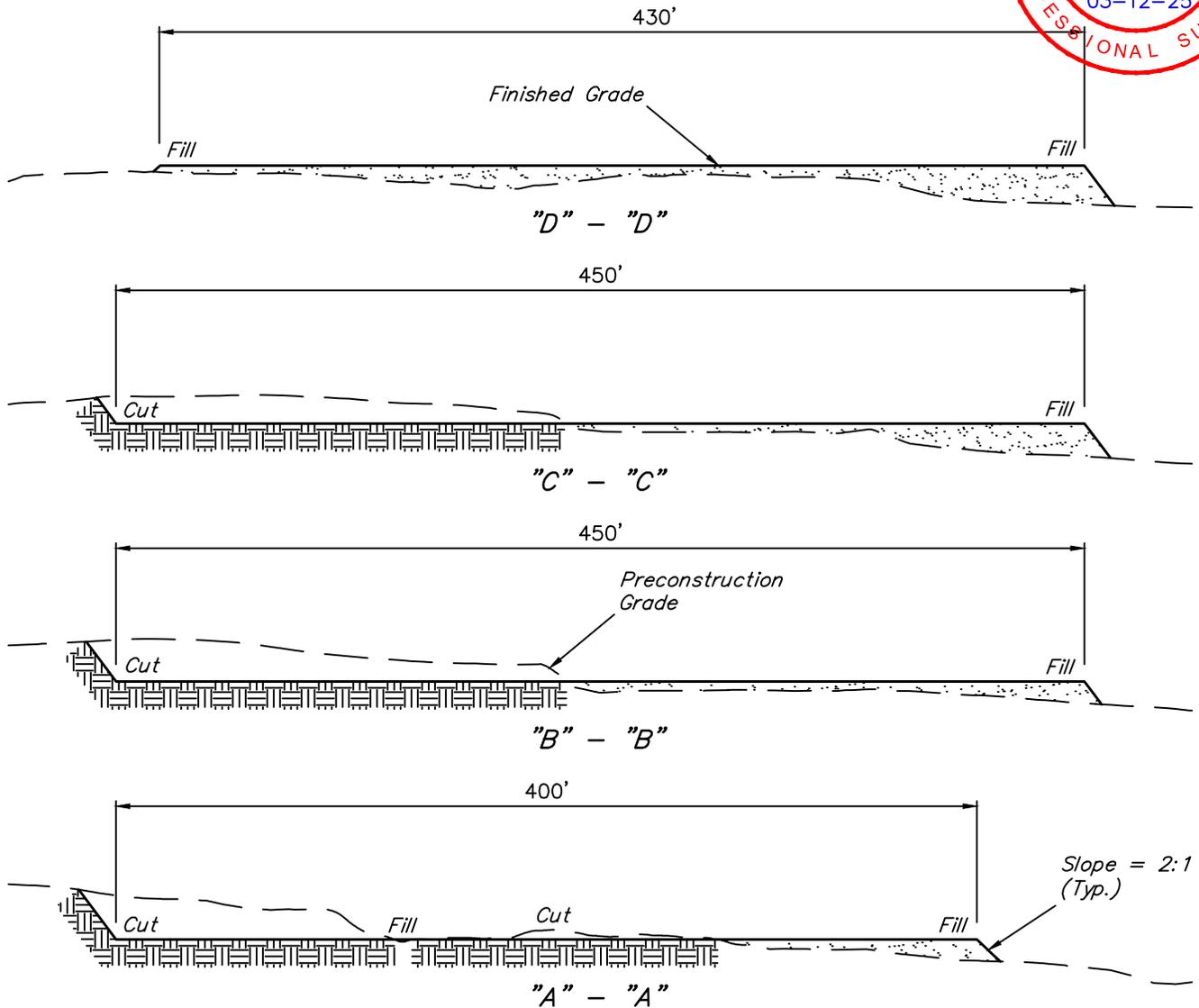
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
LOCATION LAYOUT		EXHIBIT F	



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 Vernal, UT 84078 * (435) 789-1017

X-Section Scale
1" = 80'



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.

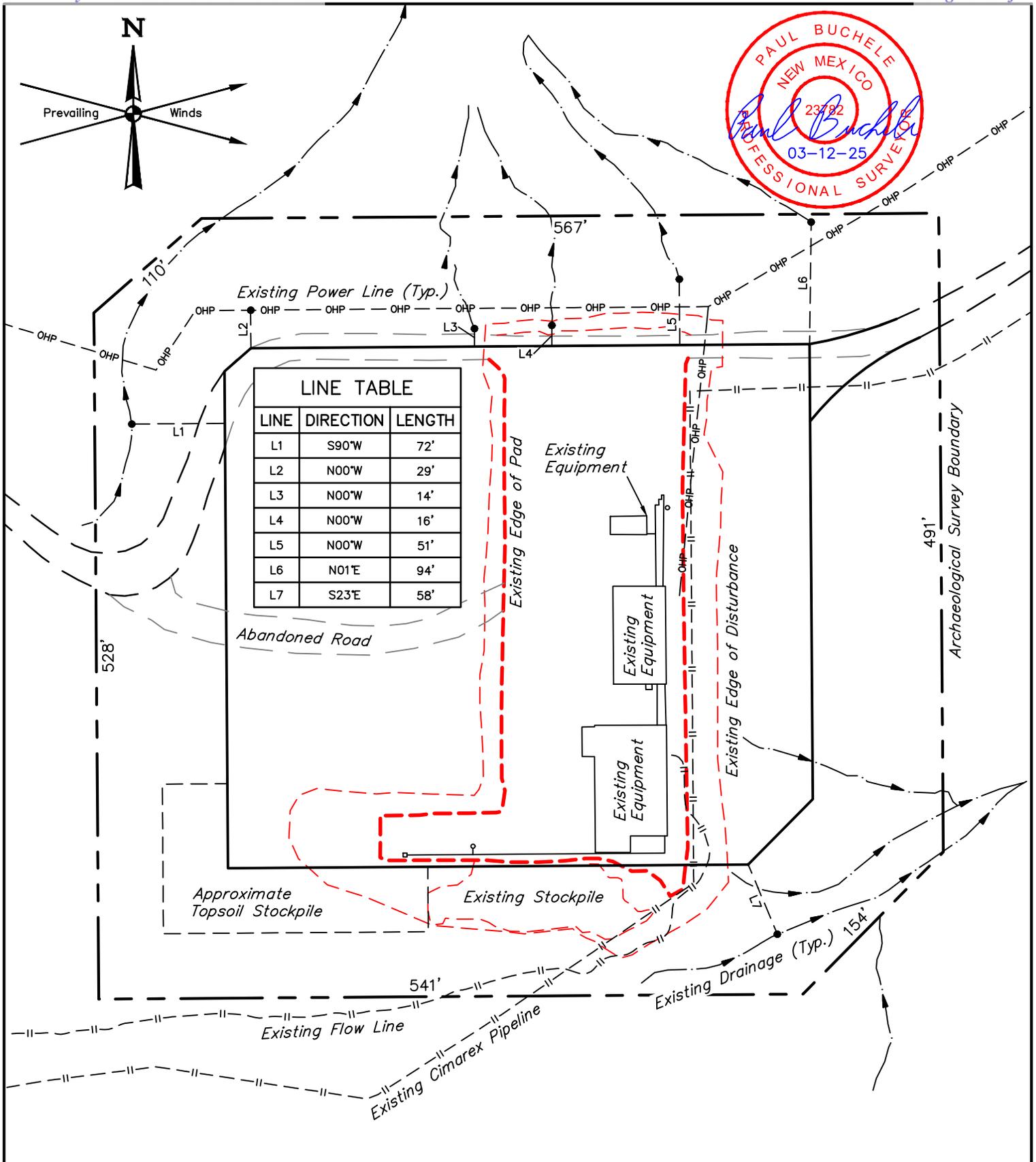
CIMAREX ENERGY CO.

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



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LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S90°W	72'
L2	N00°W	29'
L3	N00°W	14'
L4	N00°W	16'
L5	N00°W	51'
L6	N01°E	94'
L7	S23°E	58'

NOTES:

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

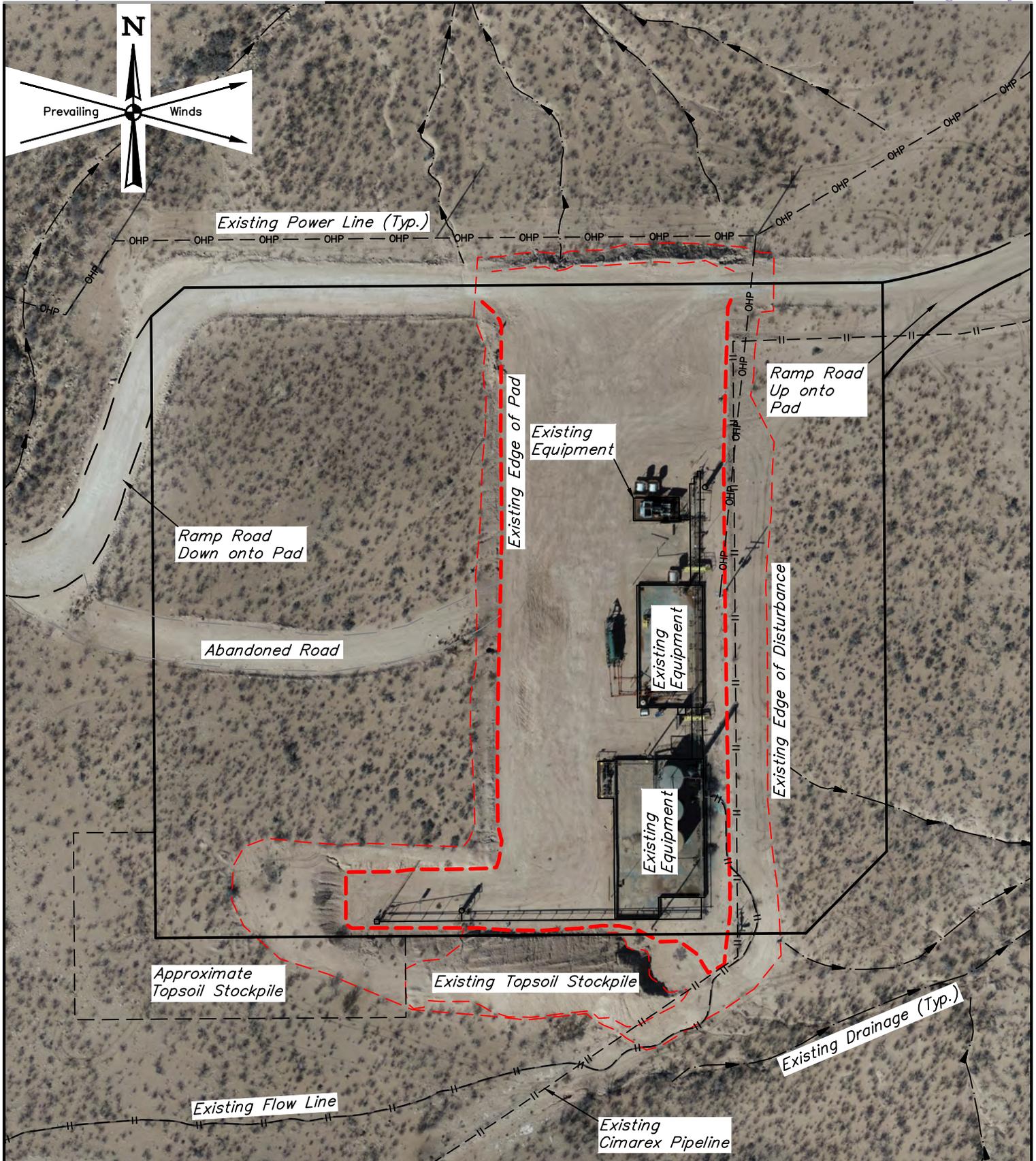
CIMAREX ENERGY CO.

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



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- 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



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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.

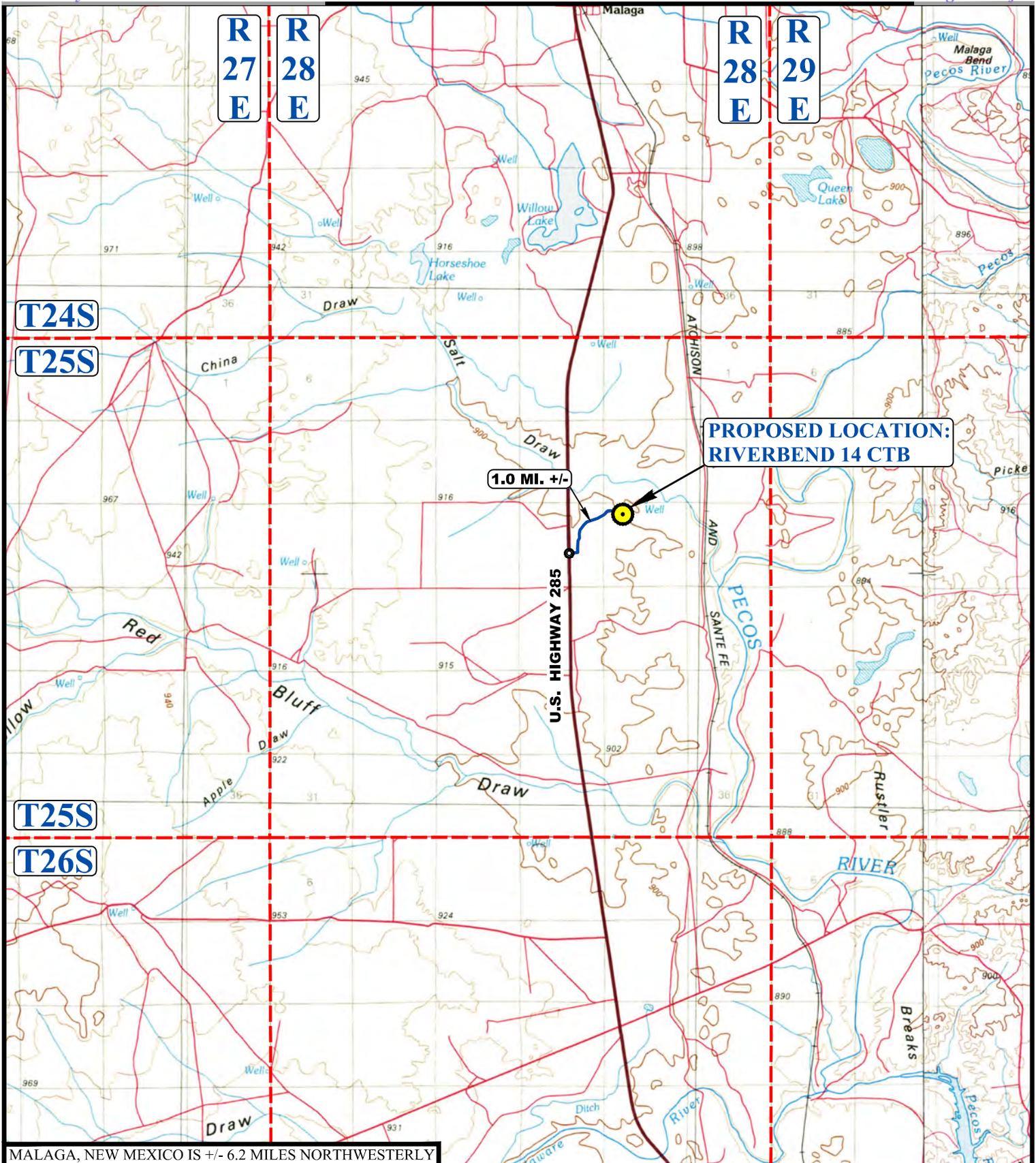
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
NW 1/4 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	
ROAD DESCRIPTION		EXHIBIT F	

UELS, LLC

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MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

 **PROPOSED LOCATION**



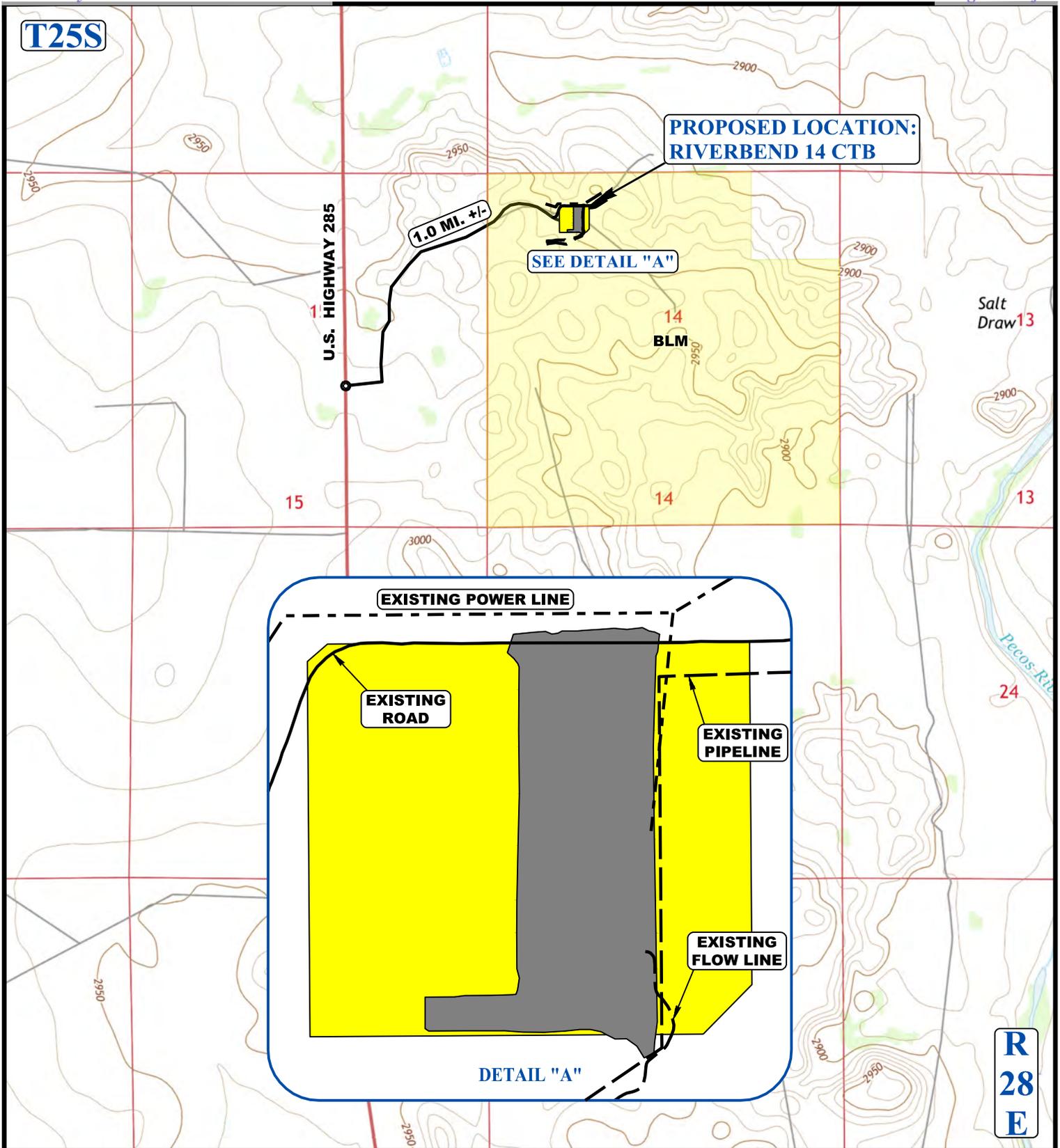
CIMAREX ENERGY CO.

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



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



CIMAREX ENERGY CO.

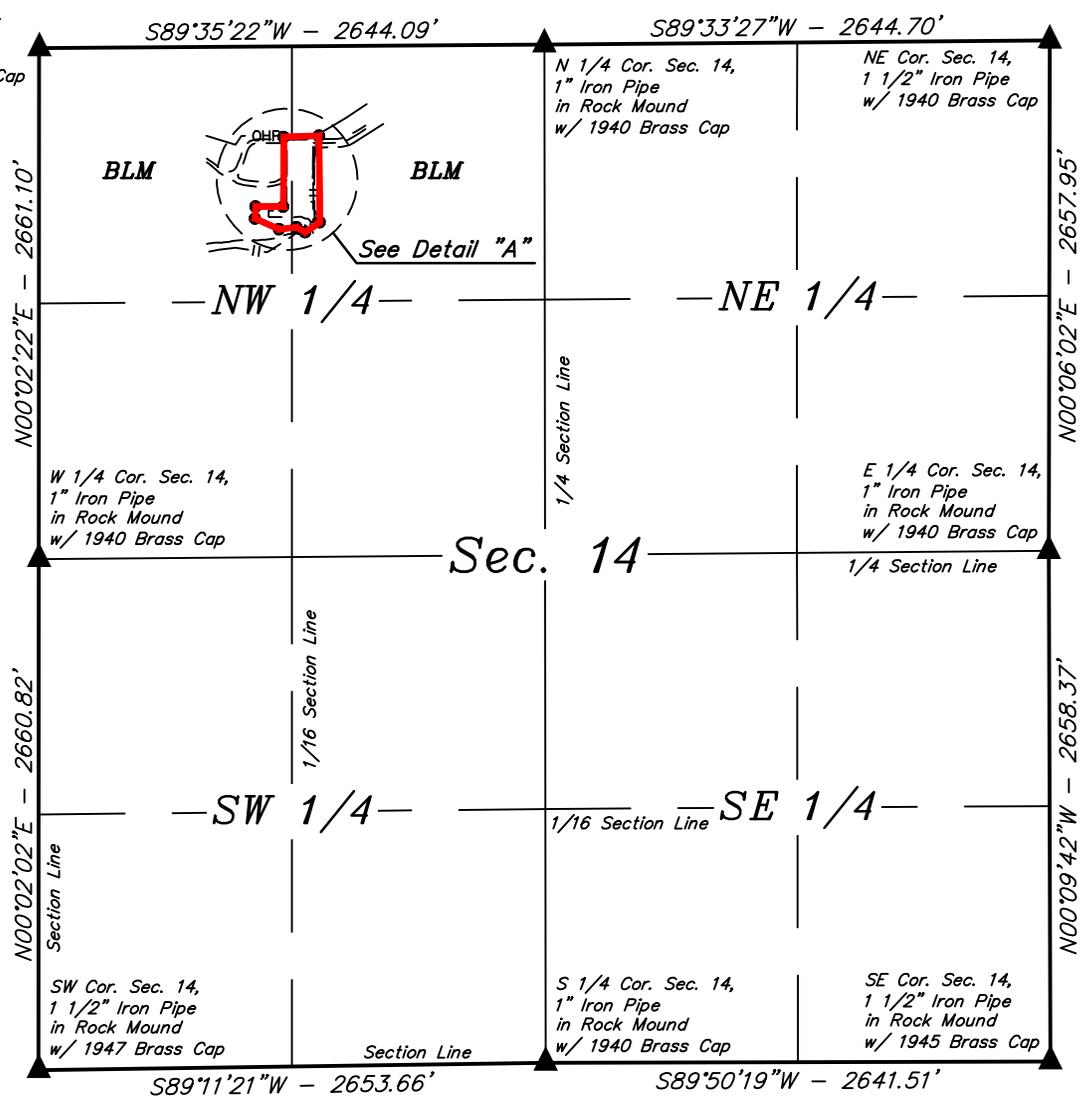
RIVERBEND 14 CTB
 694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
 N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

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



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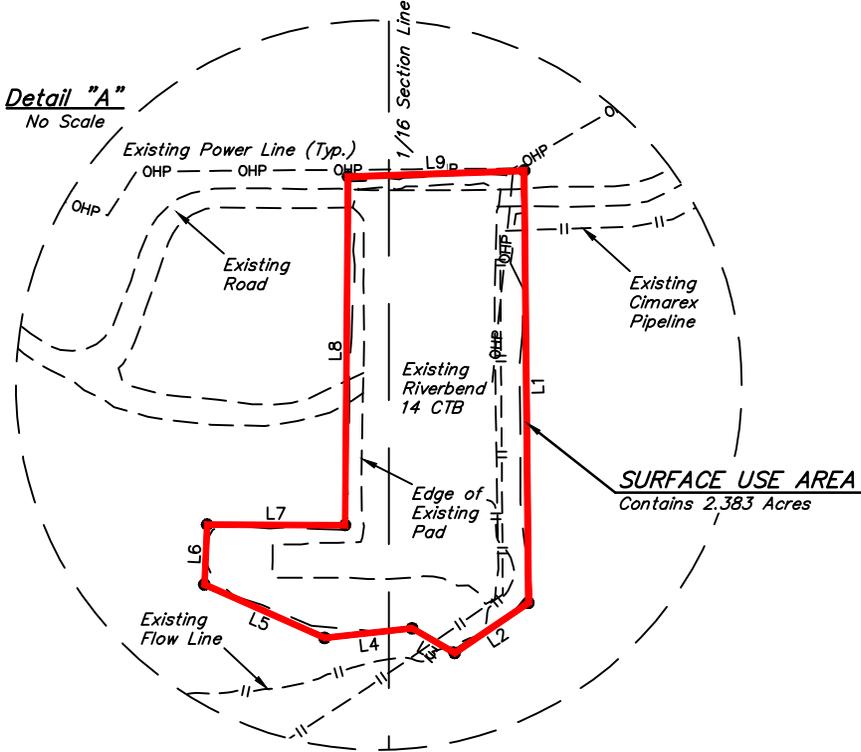
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'



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°08'24"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.

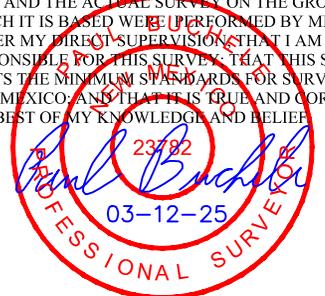
POINT OF BEGINNING BEARS S68°03'17"W 1272.60' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.



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.



NOTES:
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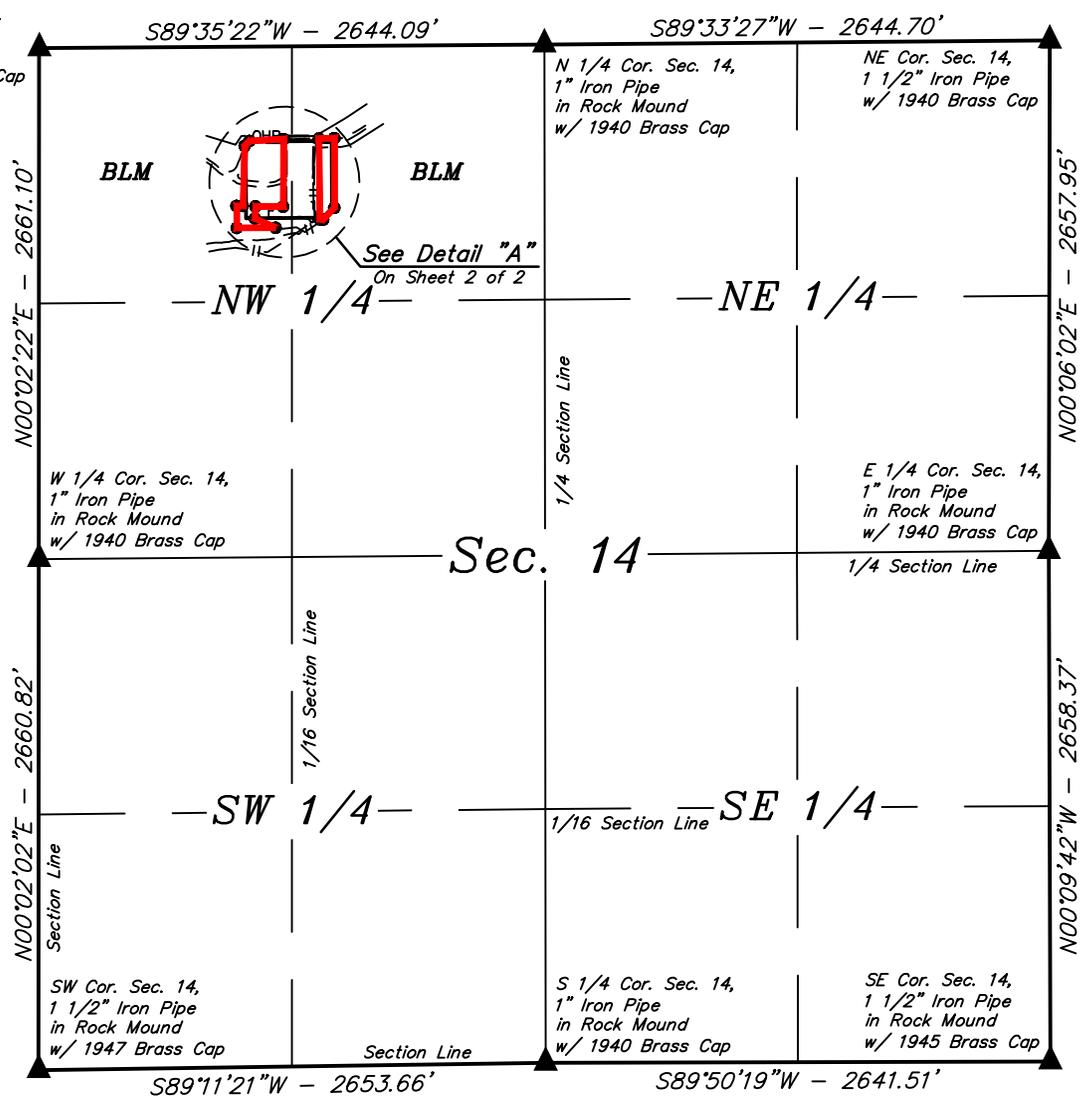


CIMAREX ENERGY CO.
RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-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.

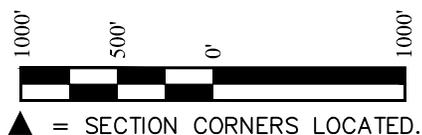
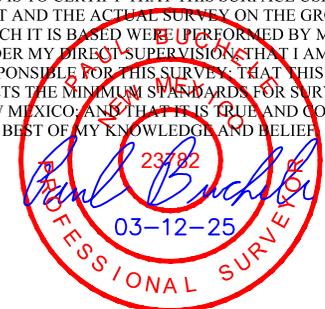
POINT OF BEGINNING "A" BEARS S64°40'24"E 1189.56' FROM THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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

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.



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-A1		

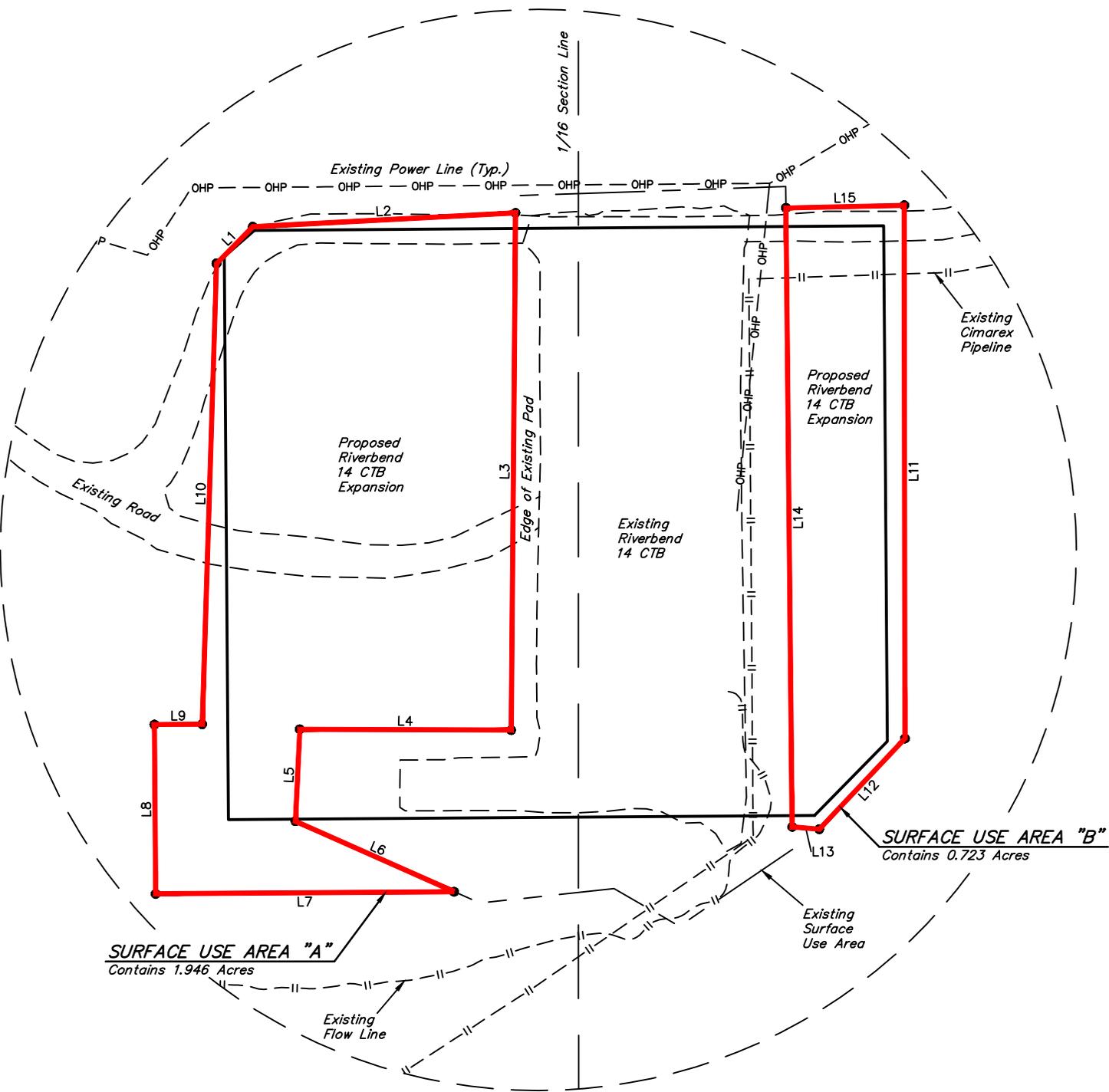
EXPANSION SURFACE USE AREA EXHIBIT F



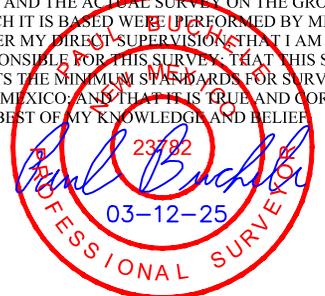
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



Detail "A"
No Scale



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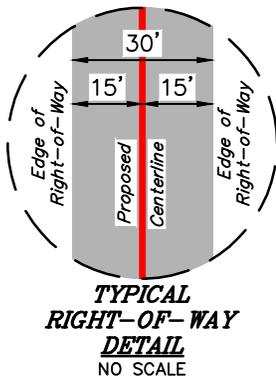
UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



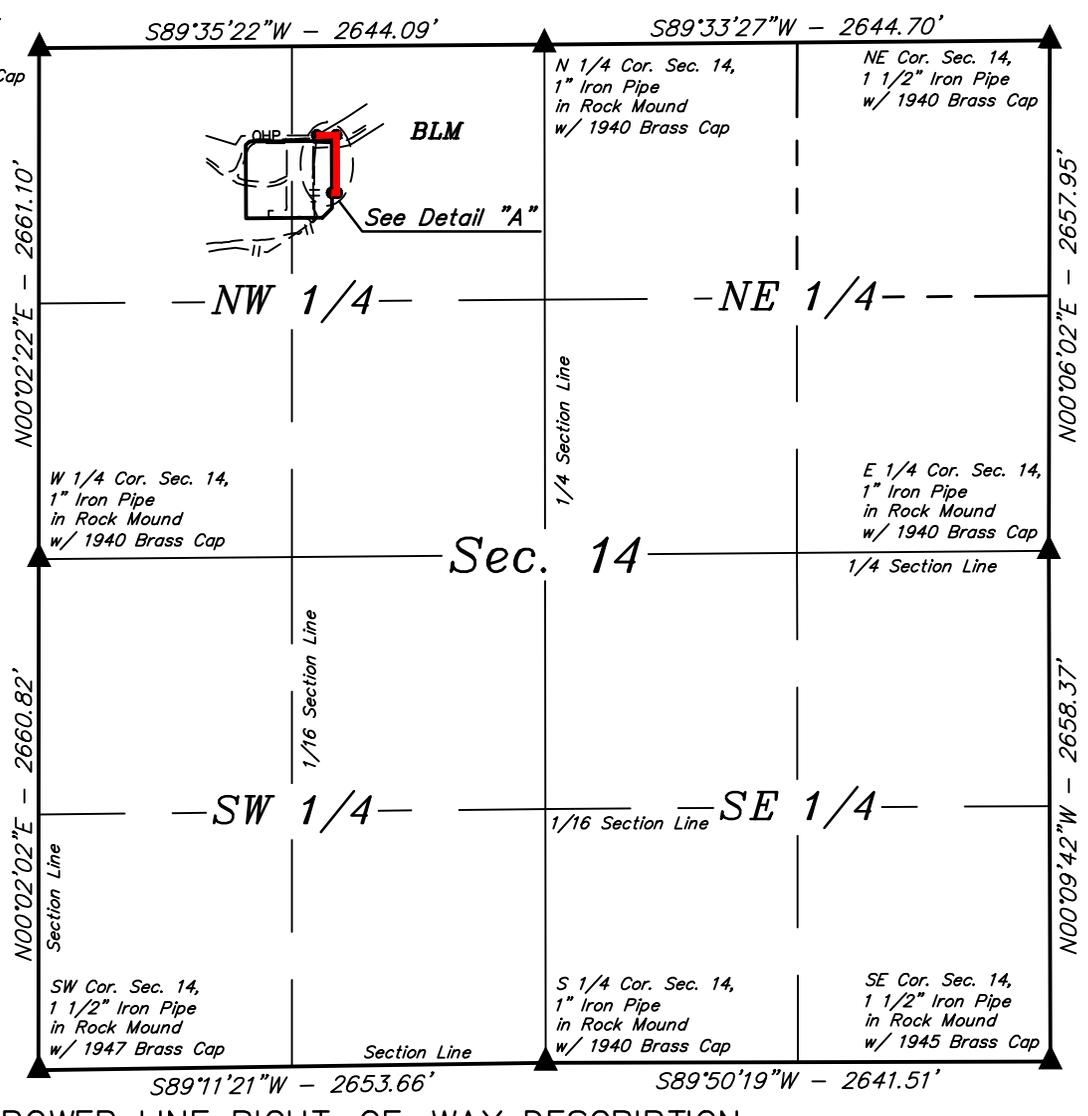
CIMAREX ENERGY CO.
RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		

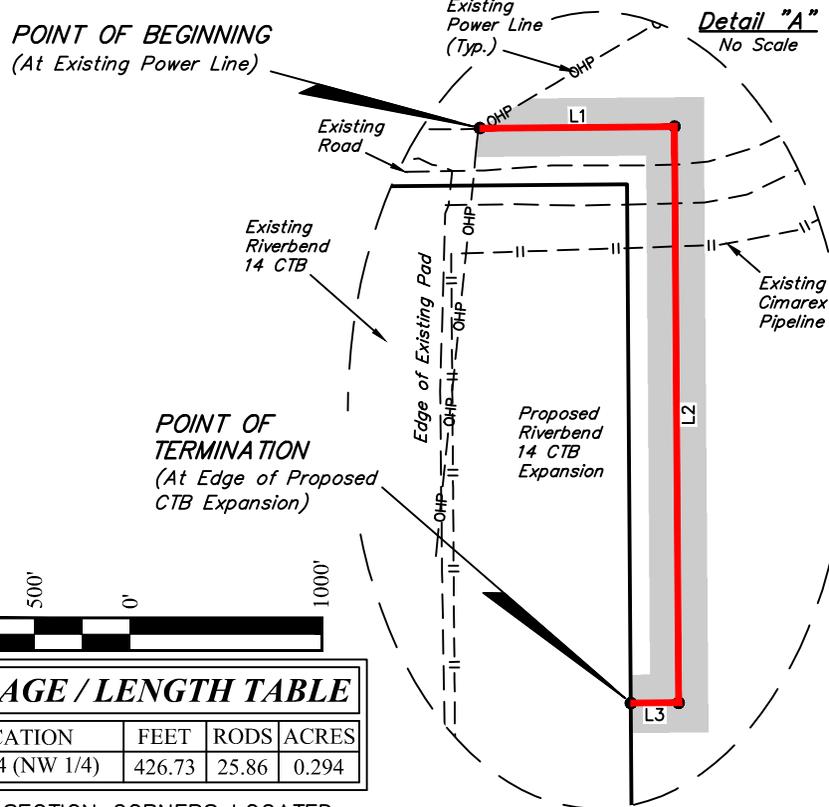
EXPANSION SURFACE USE AREA **EXHIBIT F**



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'

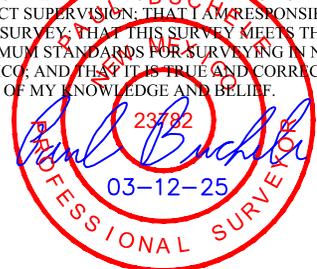


A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.
 COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 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.

CERTIFICATE
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ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	426.73	25.86	0.294

▲ = SECTION CORNERS LOCATED.

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
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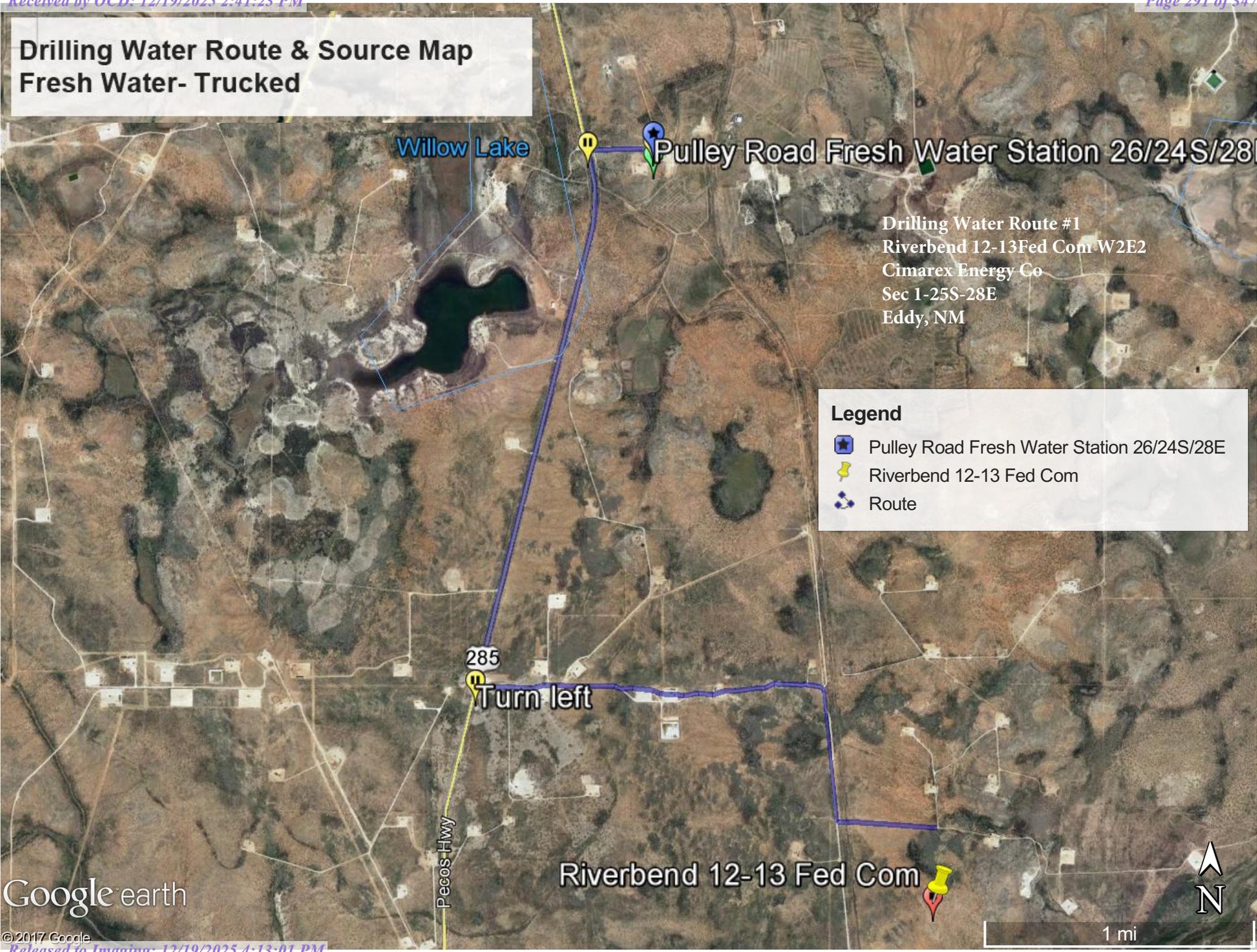
CIMAREX ENERGY CO.

**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-A		

POWER LINE R-O-W EXHIBIT F

Drilling Water Route & Source Map Fresh Water- Trucked



Willow Lake

Pulley Road Fresh Water Station 26/24S/28E

Drilling Water Route #1
 Riverbend 12-13 Fed Com W2E2
 Cimarex Energy Co
 Sec 1-25S-28E
 Eddy, NM

Legend

- Pulley Road Fresh Water Station 26/24S/28E
- Riverbend 12-13 Fed Com
- Route

285

Turn left

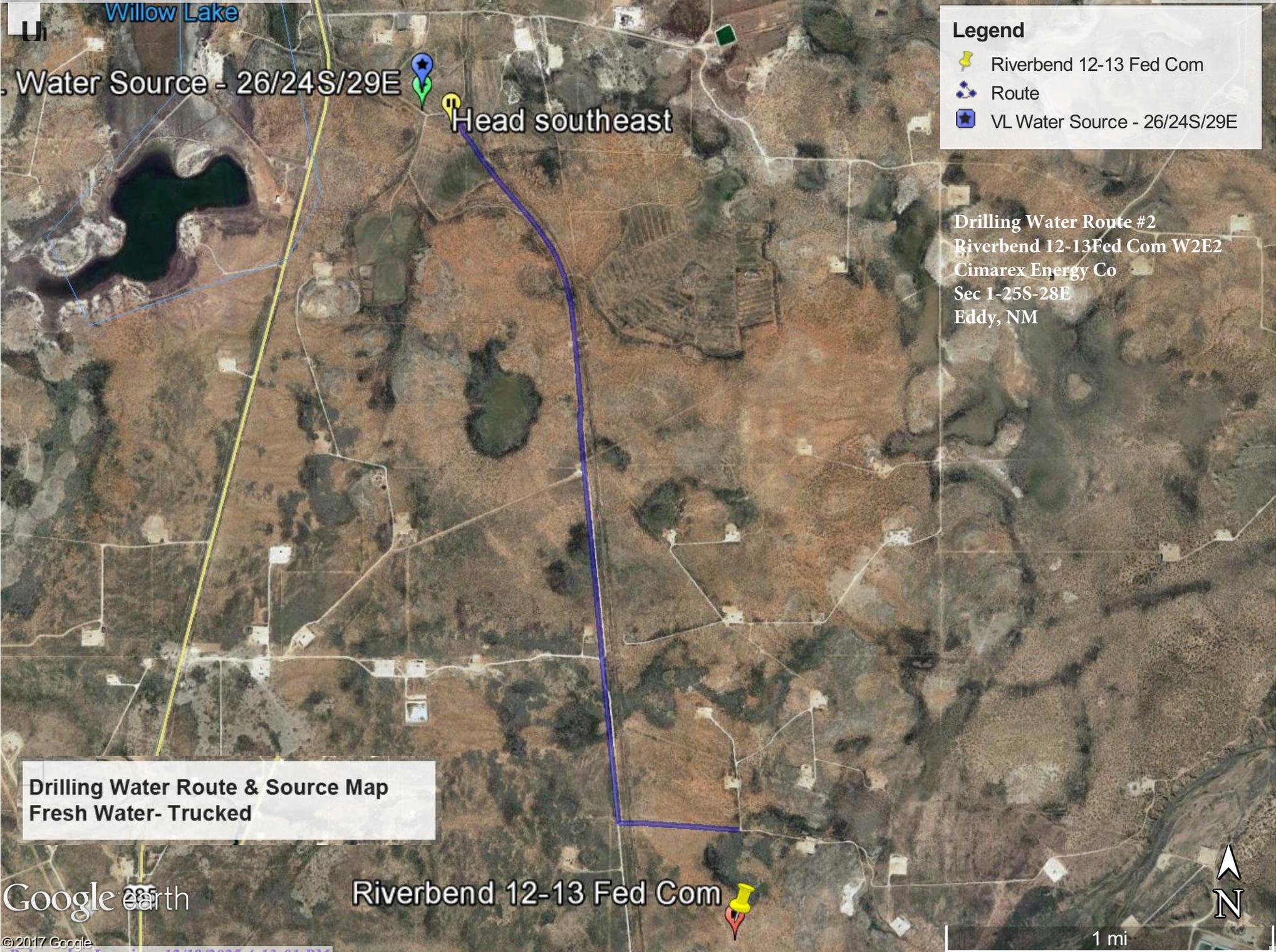
Pecos Hwy

Riverbend 12-13 Fed Com

Google earth



1 mi



Legend

-  Riverbend 12-13 Fed Com
-  Route
-  VL Water Source - 26/24S/29E

Drilling Water Route #2
 Riverbend 12-13 Fed Com W2E2
 Cimarex Energy Co
 Sec 1-25S-28E
 Eddy, NM

Drilling Water Route & Source Map
Fresh Water- Trucked

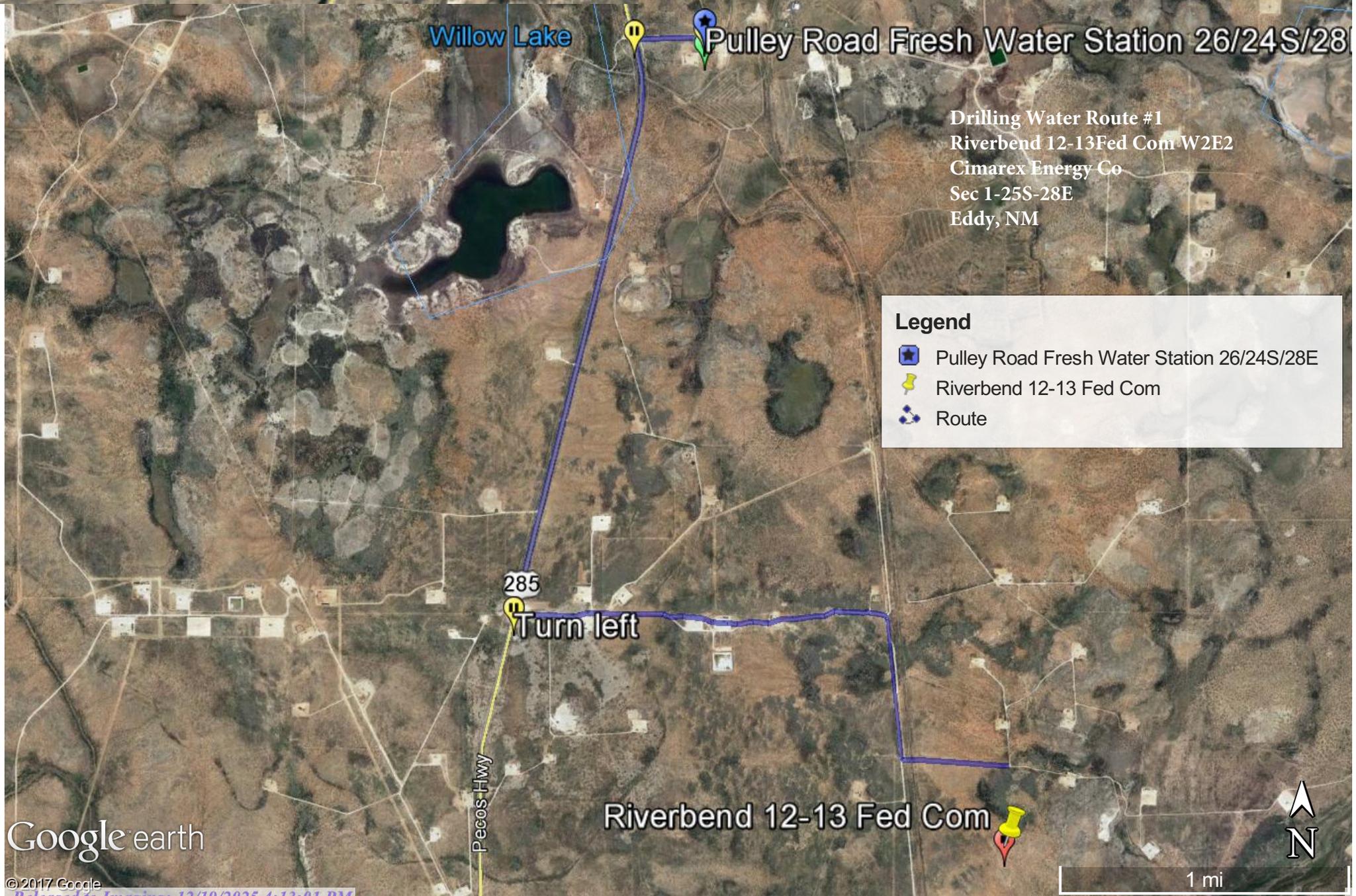
Google Earth

Riverbend 12-13 Fed Com



1 mi

Drilling Water Route & Source Map Fresh Water- Trucked



Willow Lake

U1

Water Source - 26/24S/29E



Head southeast

Legend

- Riverbend 12-13 Fed Com
- Route
- VL Water Source - 26/24S/29E

Drilling Water Route #2
 Riverbend 12-13 Fed Com W2E2
 Cimarex Energy Co
 Sec 1-25S-28E
 Eddy, NM

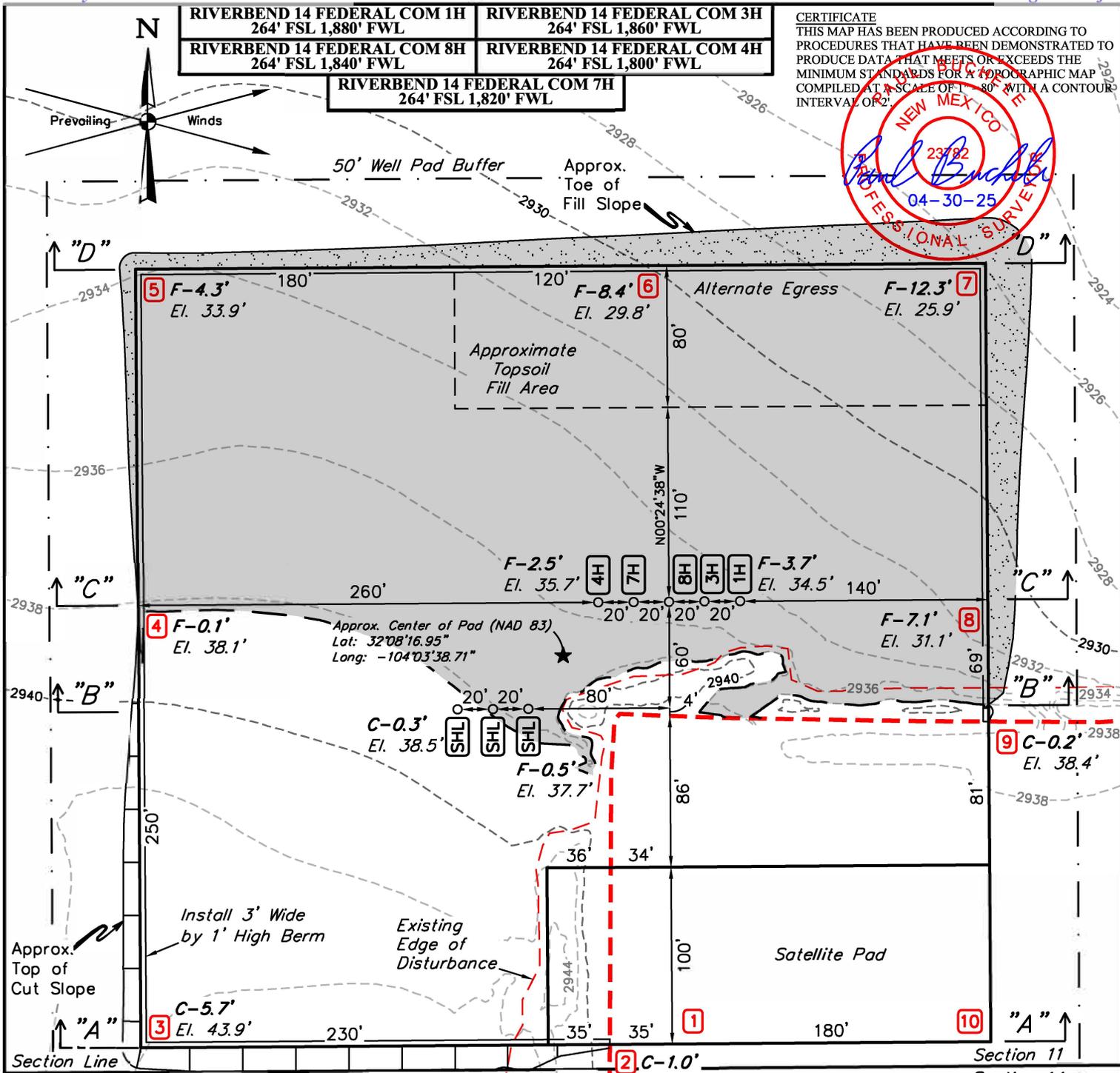
**Drilling Water Route & Source Map
 Fresh Water- Trucked**

Google Earth

Riverbend 12-13 Fed Com



1 mi



FINISHE DGRADE ELEVATION = 2,938.2'

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.

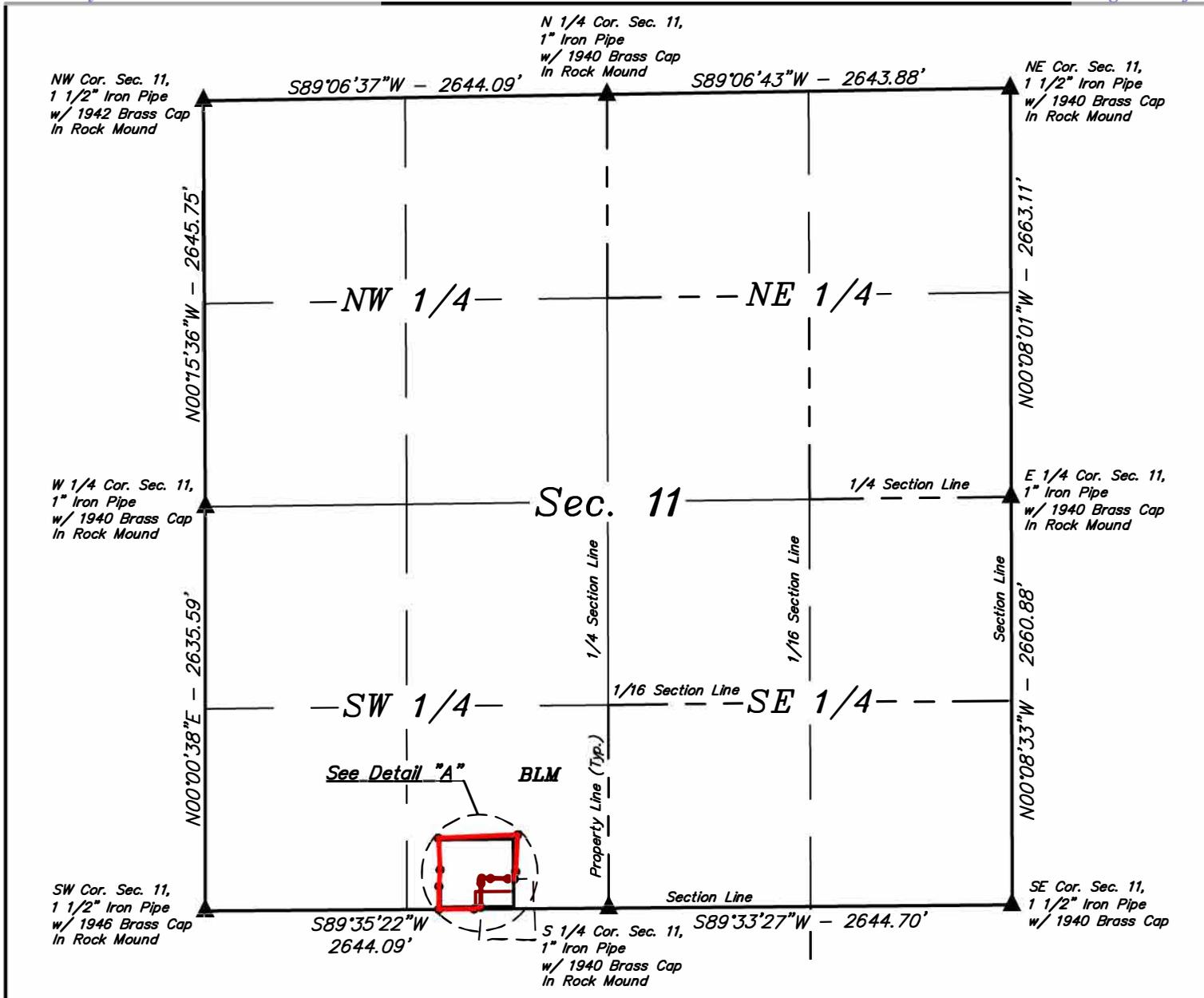
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

UJINTAH
ENGINEERING & LAND SURVEYING

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

LOCATION LAYOUT | **EXHIBIT J**



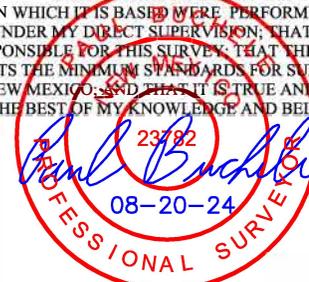
SURFACE USE AREA DESCRIPTION

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.

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.



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

▲ = 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)



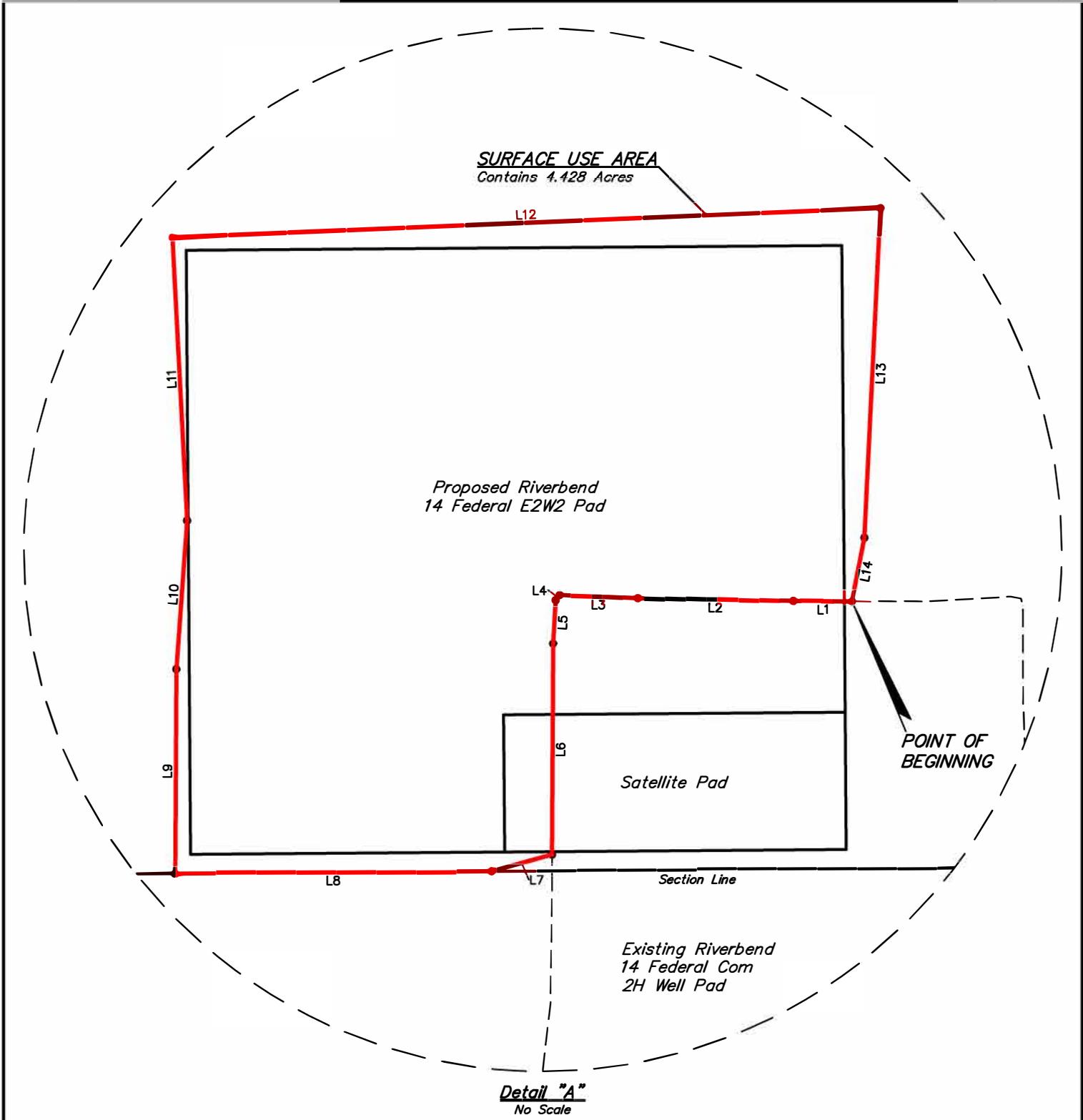
CIMAREX ENERGY CO.
 RIVERBEND 14 FEDERAL E2W2
 ON BLM LANDS IN
 SECTION 11, T25S, R28E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

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

SURFACE USE AREA

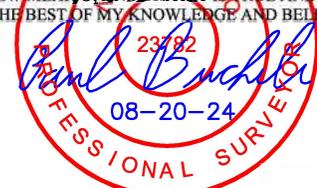


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 Vernal, UT 84078 * (435) 789-1017



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.



Sheet 2 of 2

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



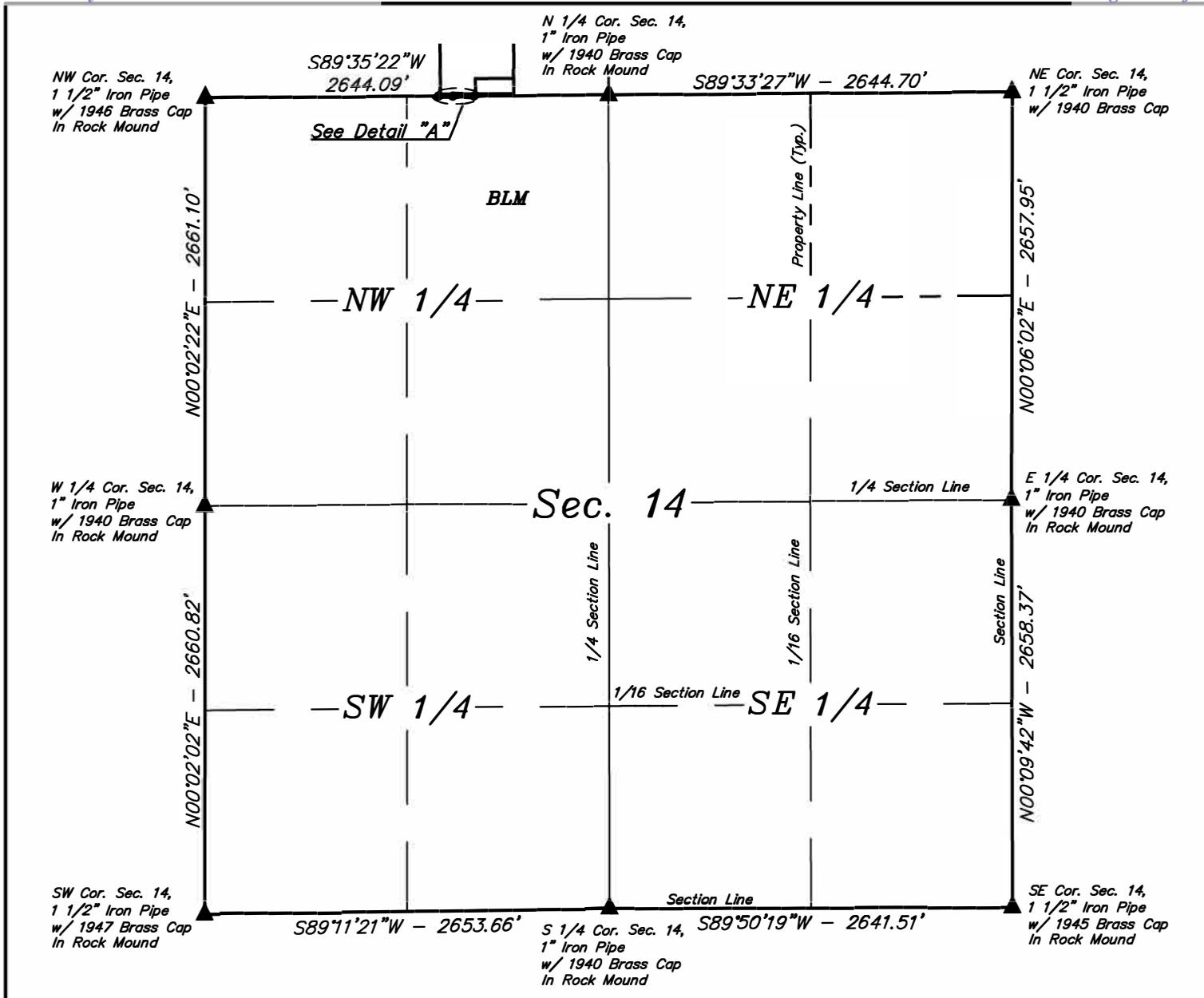
CIMAREX ENERGY CO.
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

SURFACE USE AREA

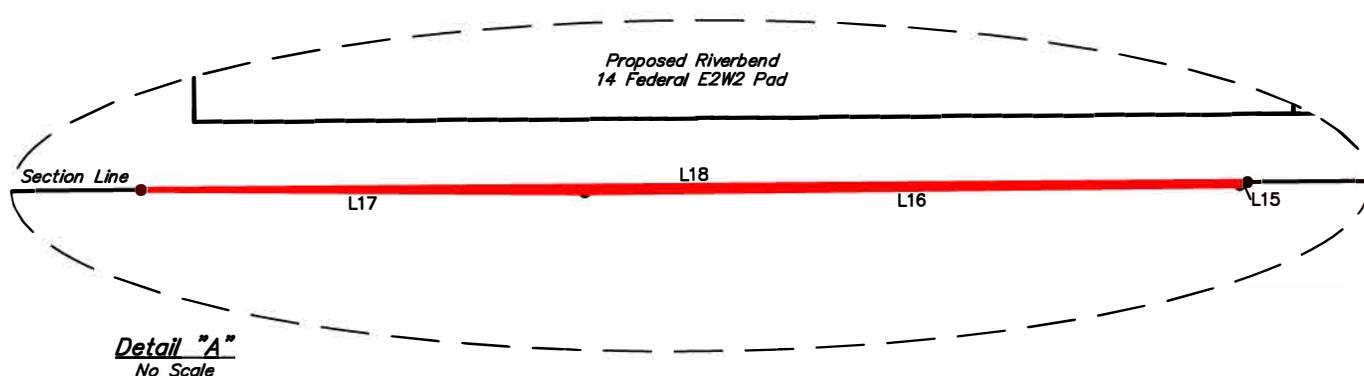


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 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



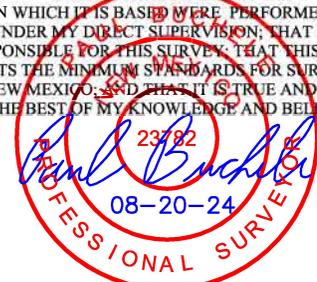
SURFACE USE AREA DESCRIPTION

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.

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.



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'

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

▲ = SECTION CORNERS LOCATED.

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



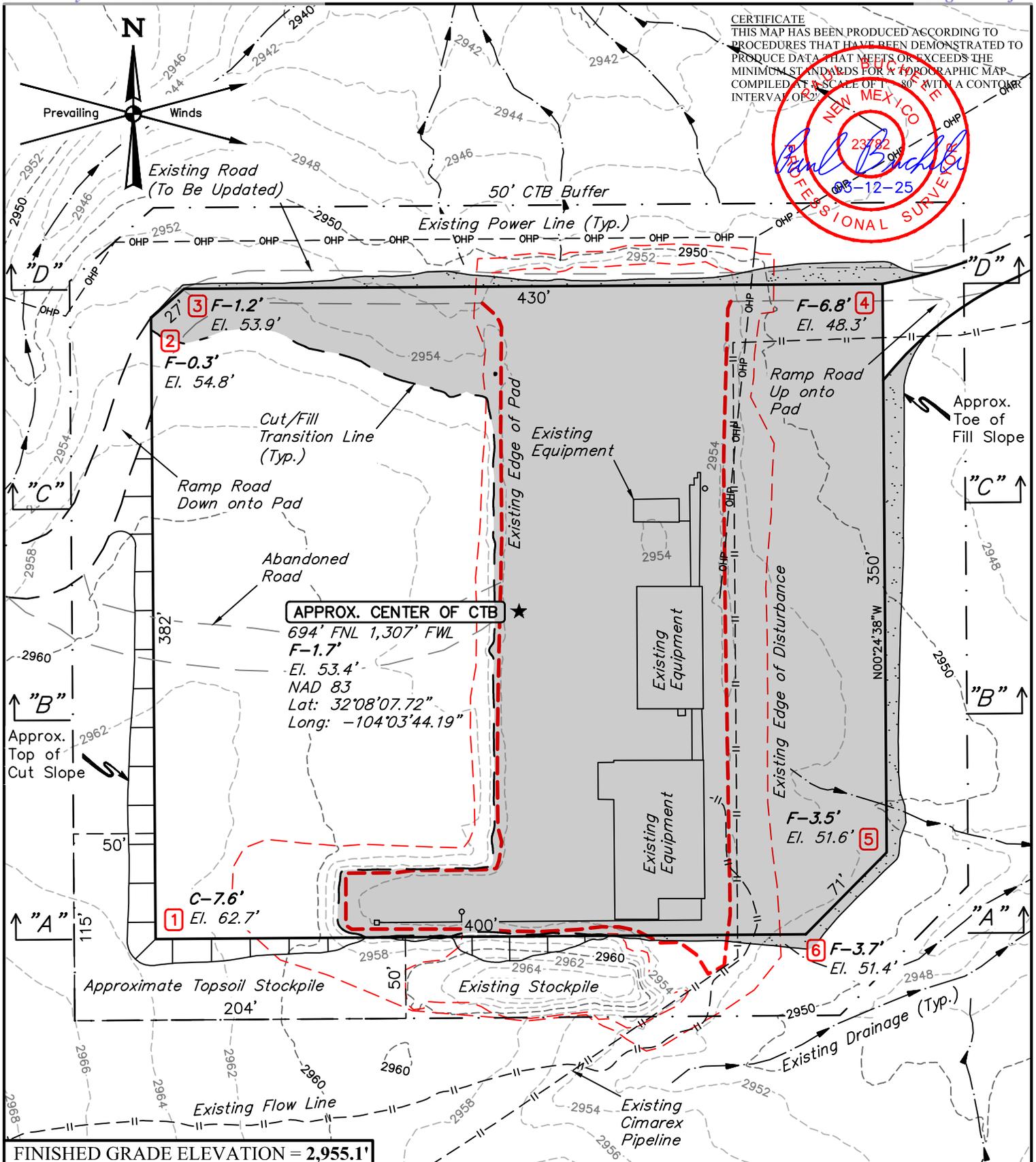
CIMAREX ENERGY CO.
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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



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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.

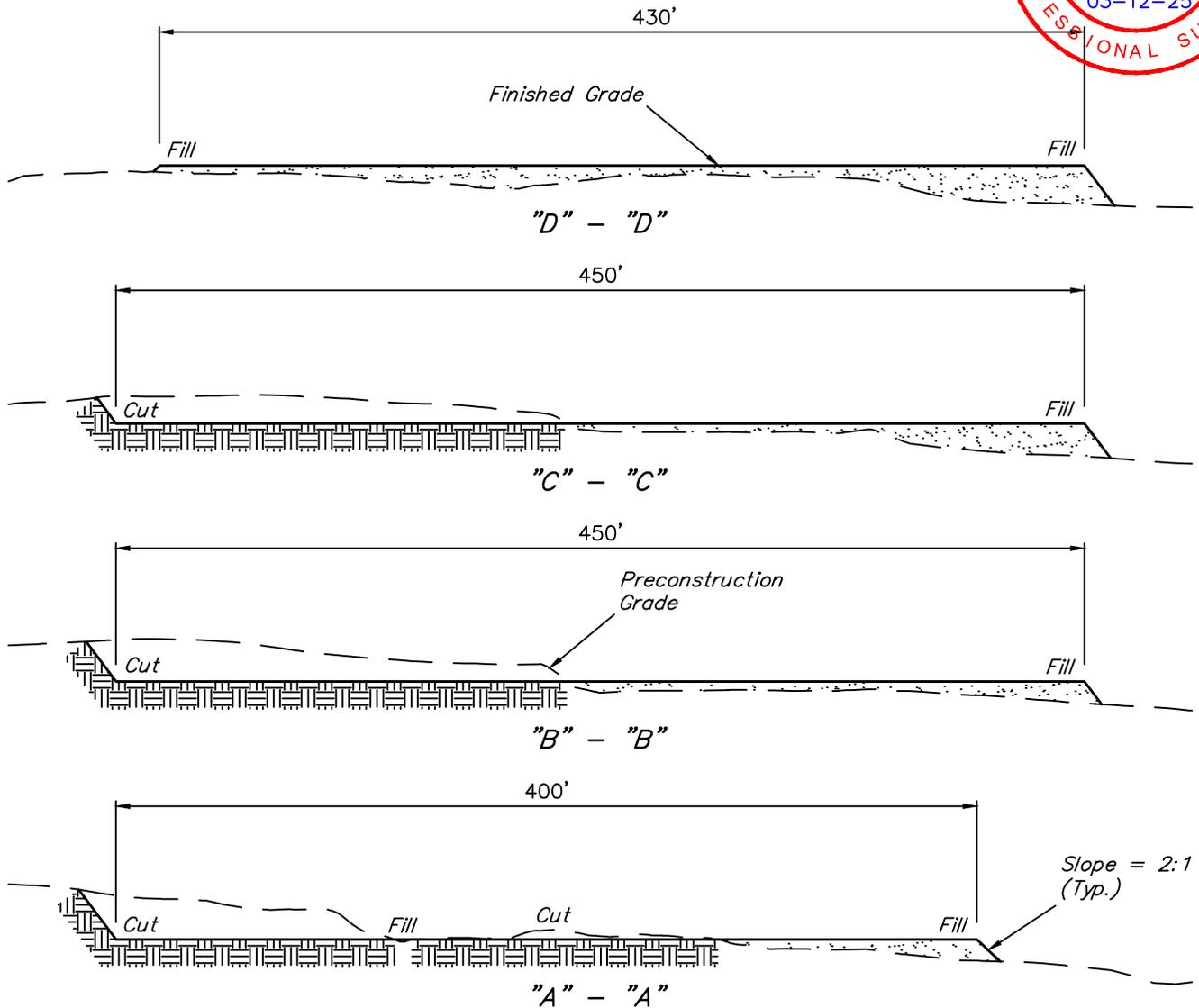
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
LOCATION LAYOUT		EXHIBIT F	



UELS, LLC
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 Vernal, UT 84078 * (435) 789-1017

X-Section Scale
1" = 80'



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.

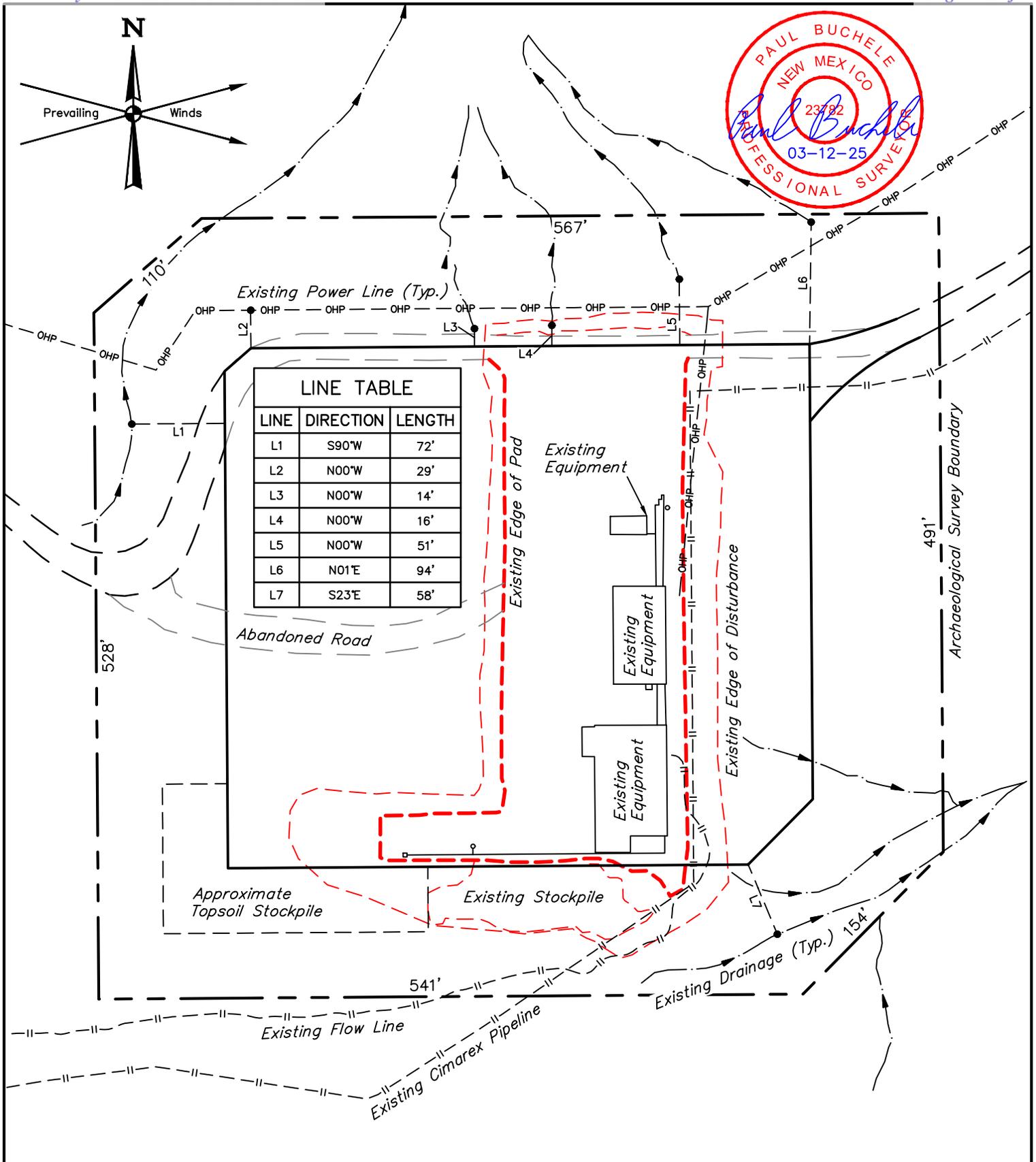
CIMAREX ENERGY CO.

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



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 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)

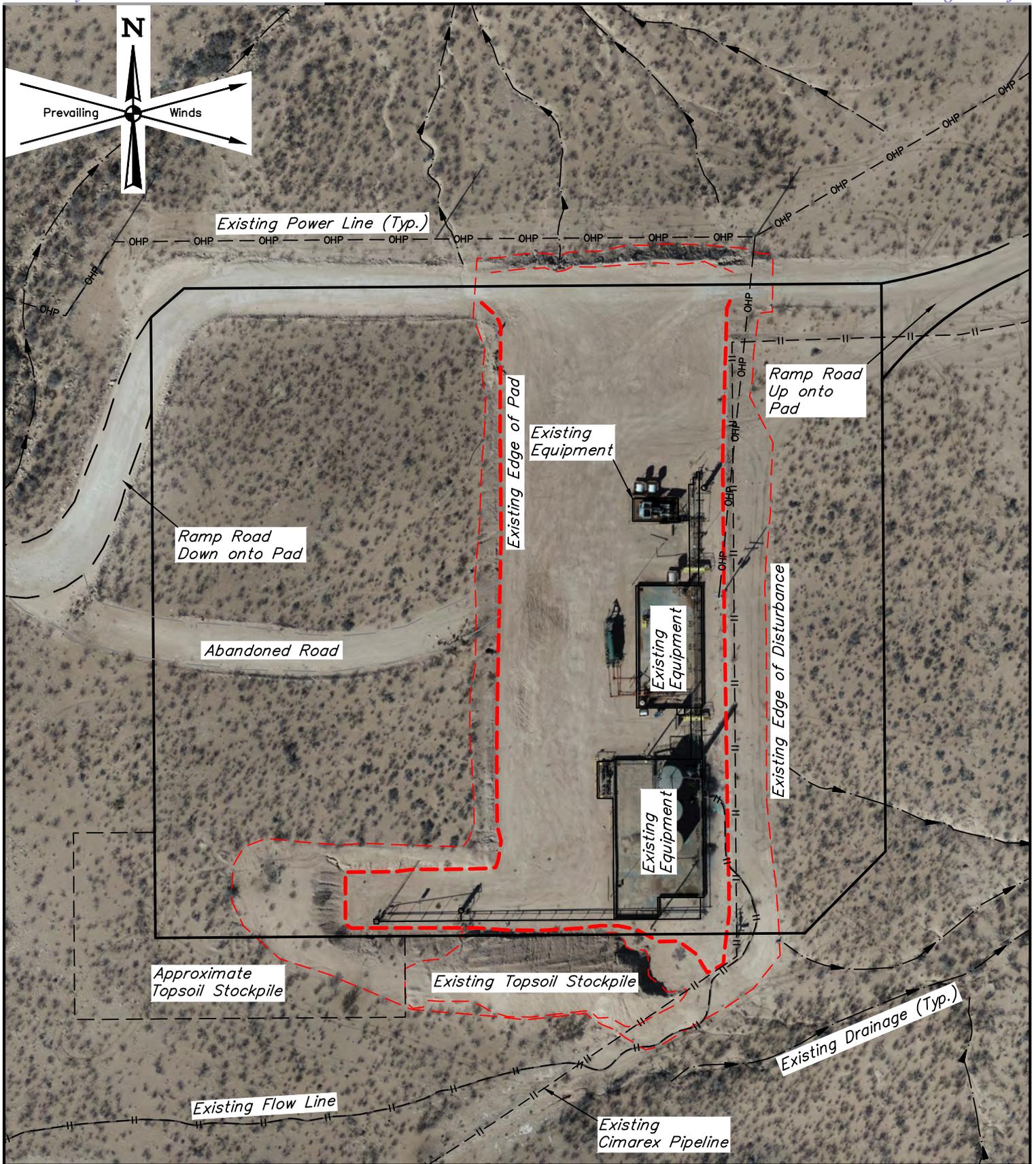
CIMAREX ENERGY CO.

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



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



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.

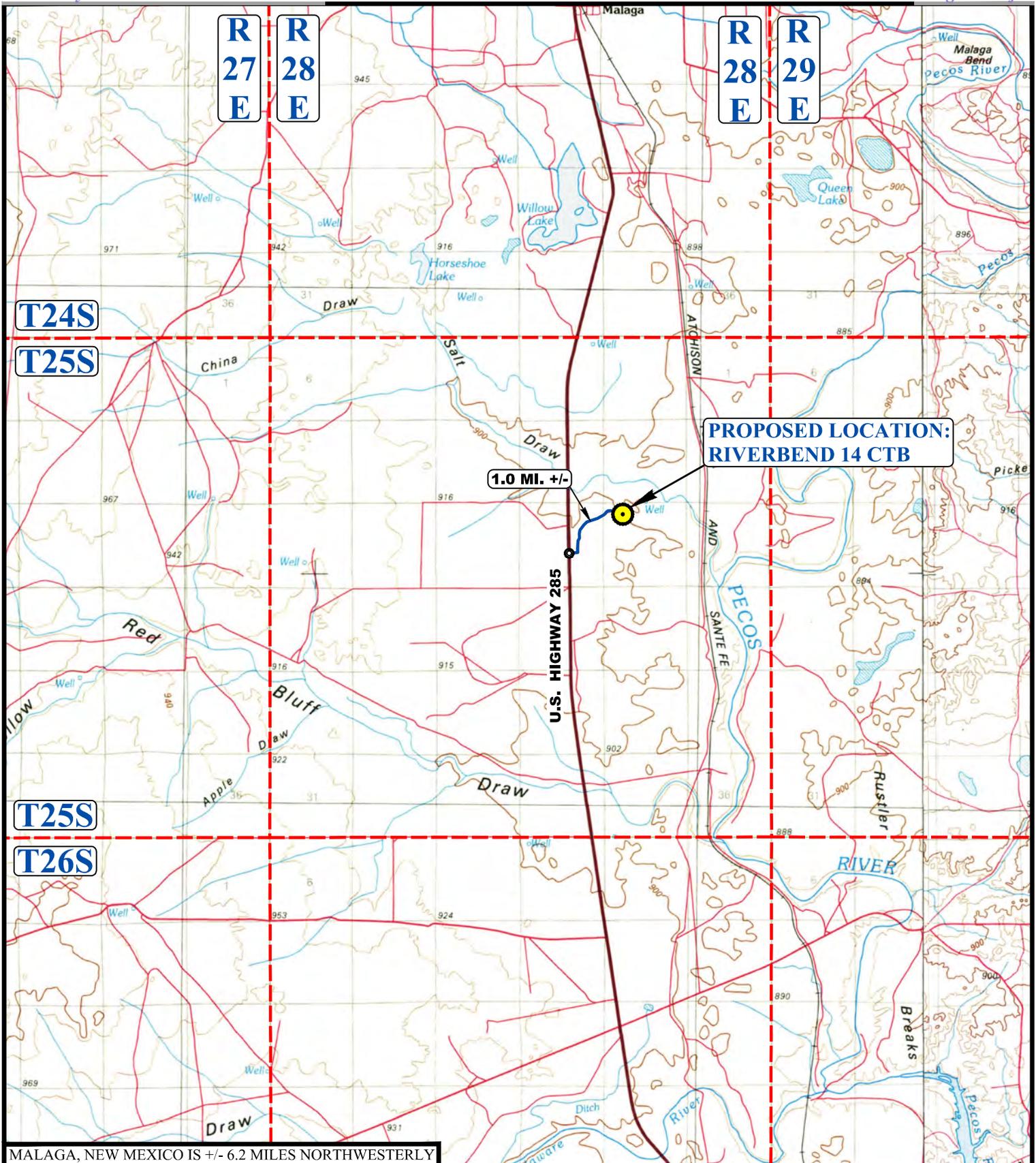
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
NW 1/4 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	
ROAD DESCRIPTION		EXHIBIT F	

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



CIMAREX ENERGY CO.

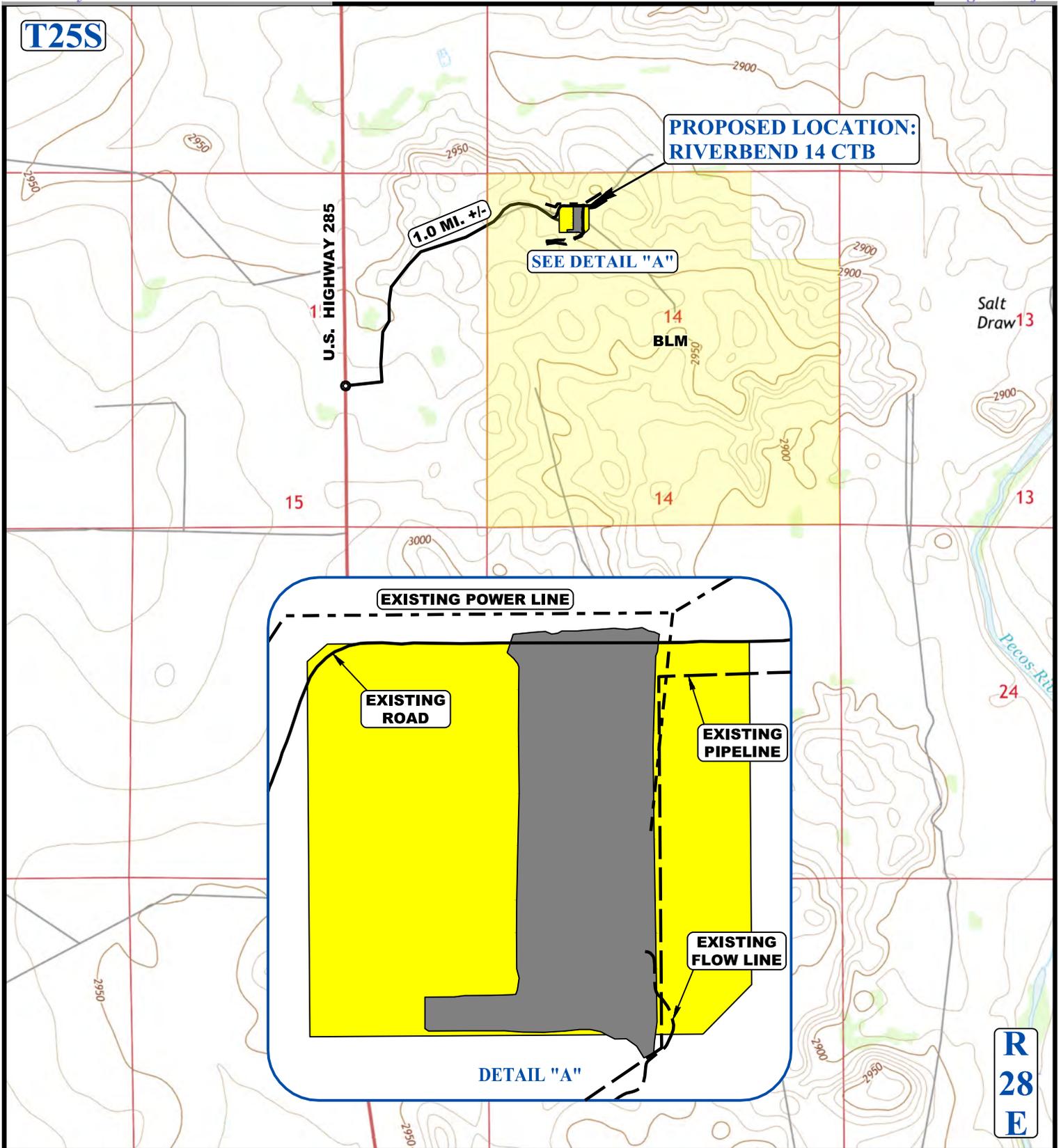
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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**



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



CIMAREX ENERGY CO.

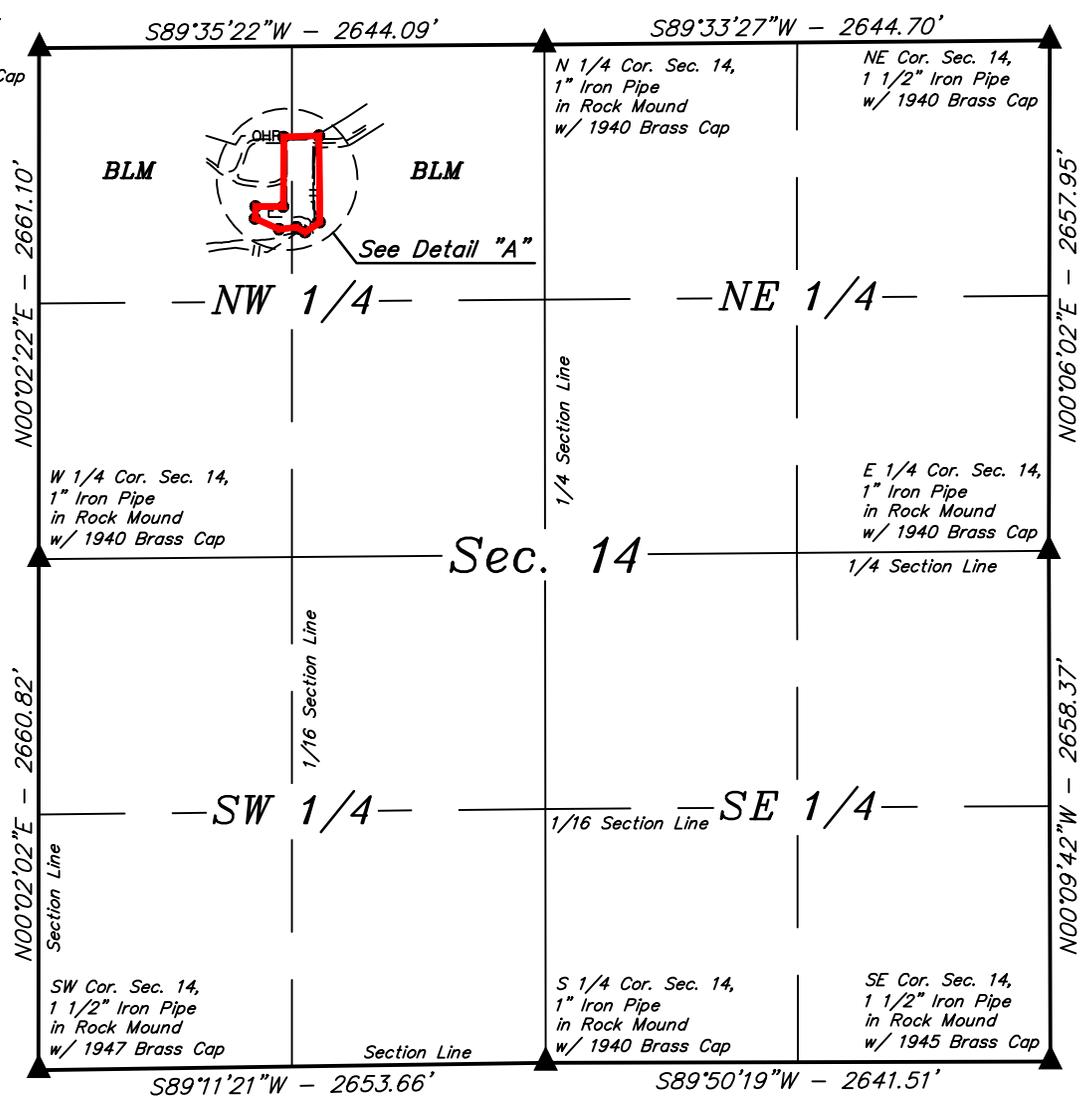
RIVERBEND 14 CTB
 694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
 N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

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

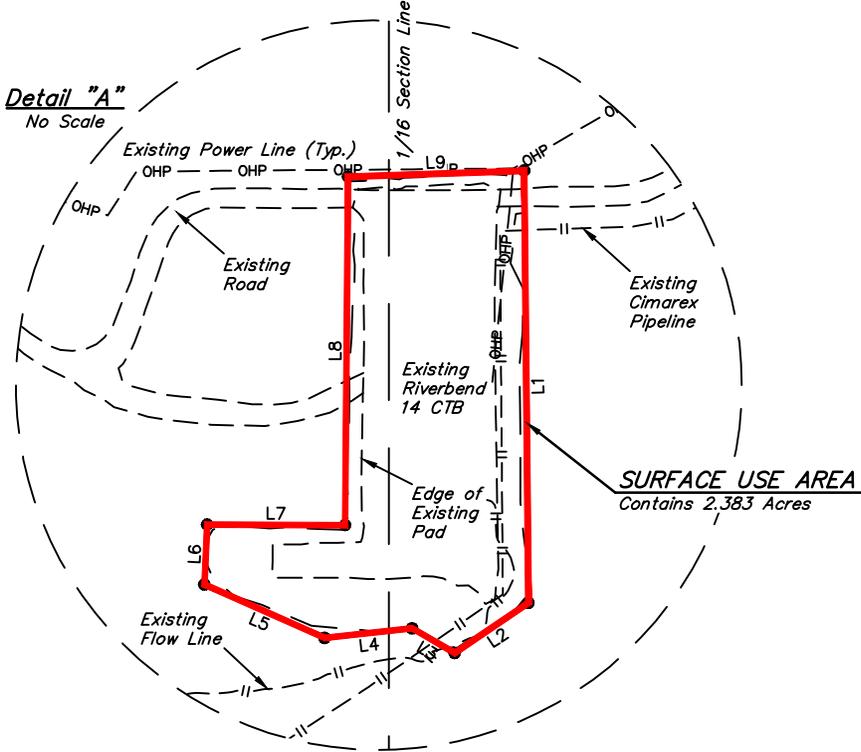
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'



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°08'24"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.

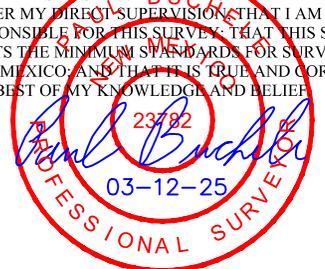
POINT OF BEGINNING BEARS S68°03'17"W 1272.60' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.



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.



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

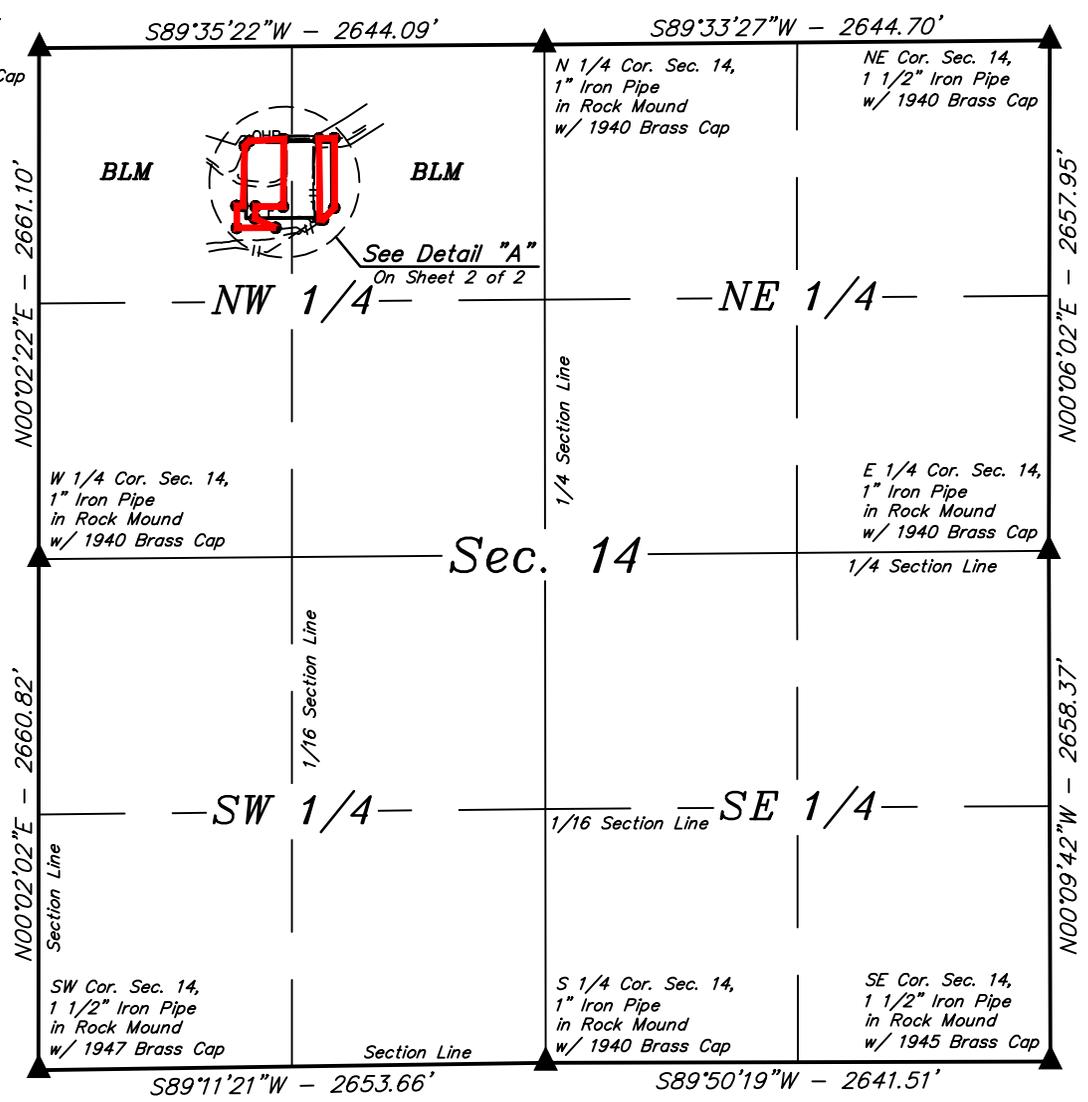
SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		

EXISTING SURFACE USE AREA EXHIBIT F



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.

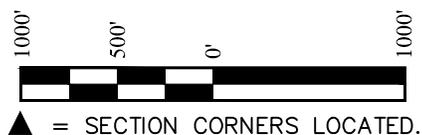
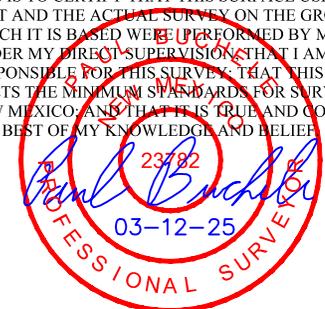
POINT OF BEGINNING "A" BEARS S64°40'24"E 1189.56' FROM THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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

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.



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-A1		

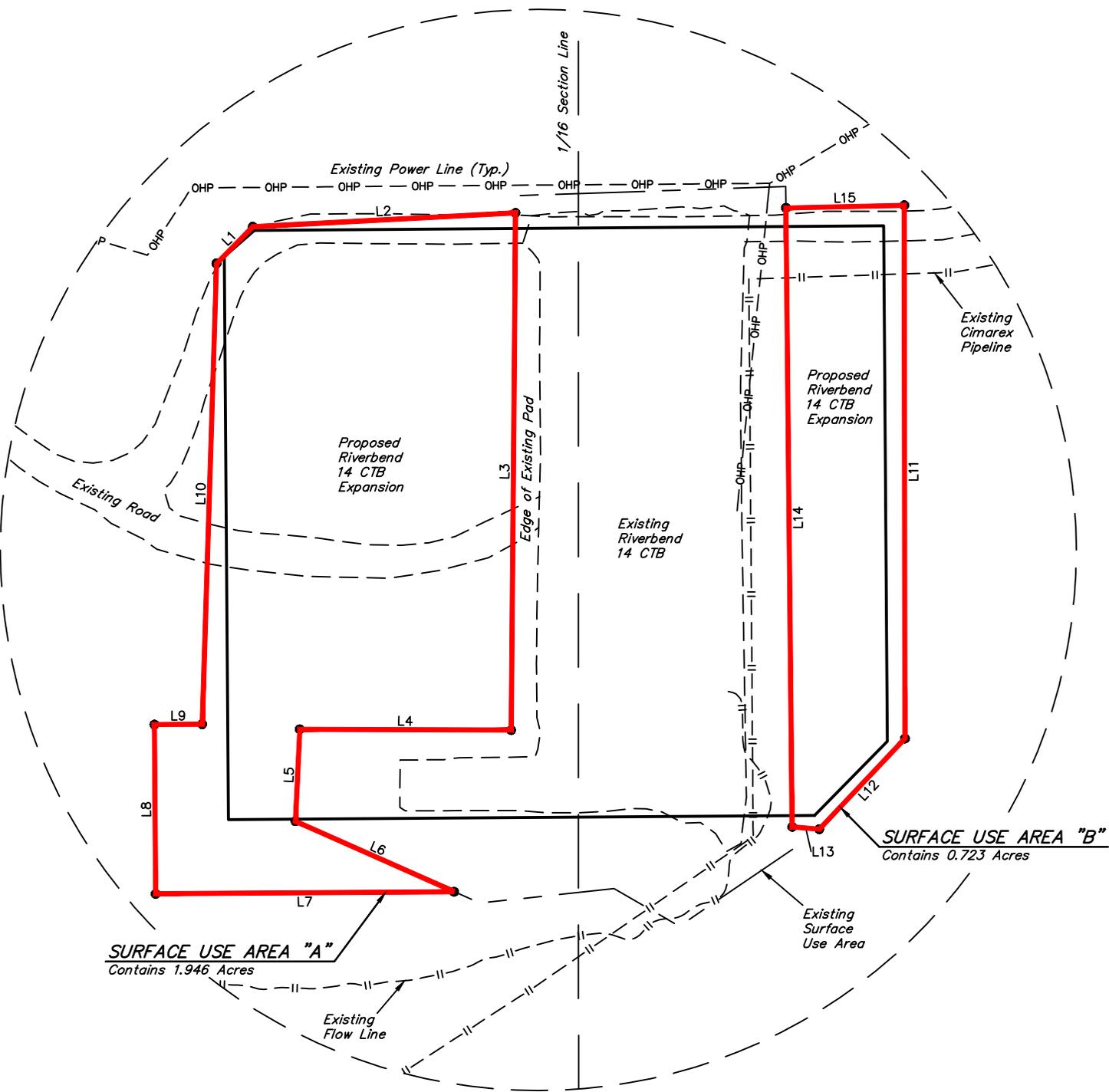
EXPANSION SURFACE USE AREA EXHIBIT F



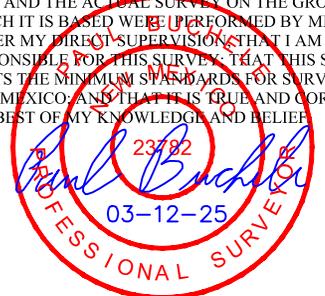
UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



Detail "A"
No Scale



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.



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

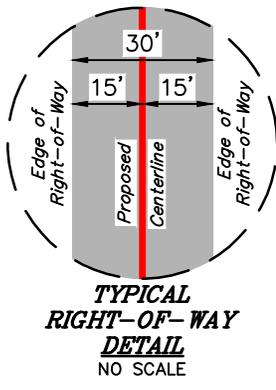
SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		

EXPANSION SURFACE USE AREA **EXHIBIT F**

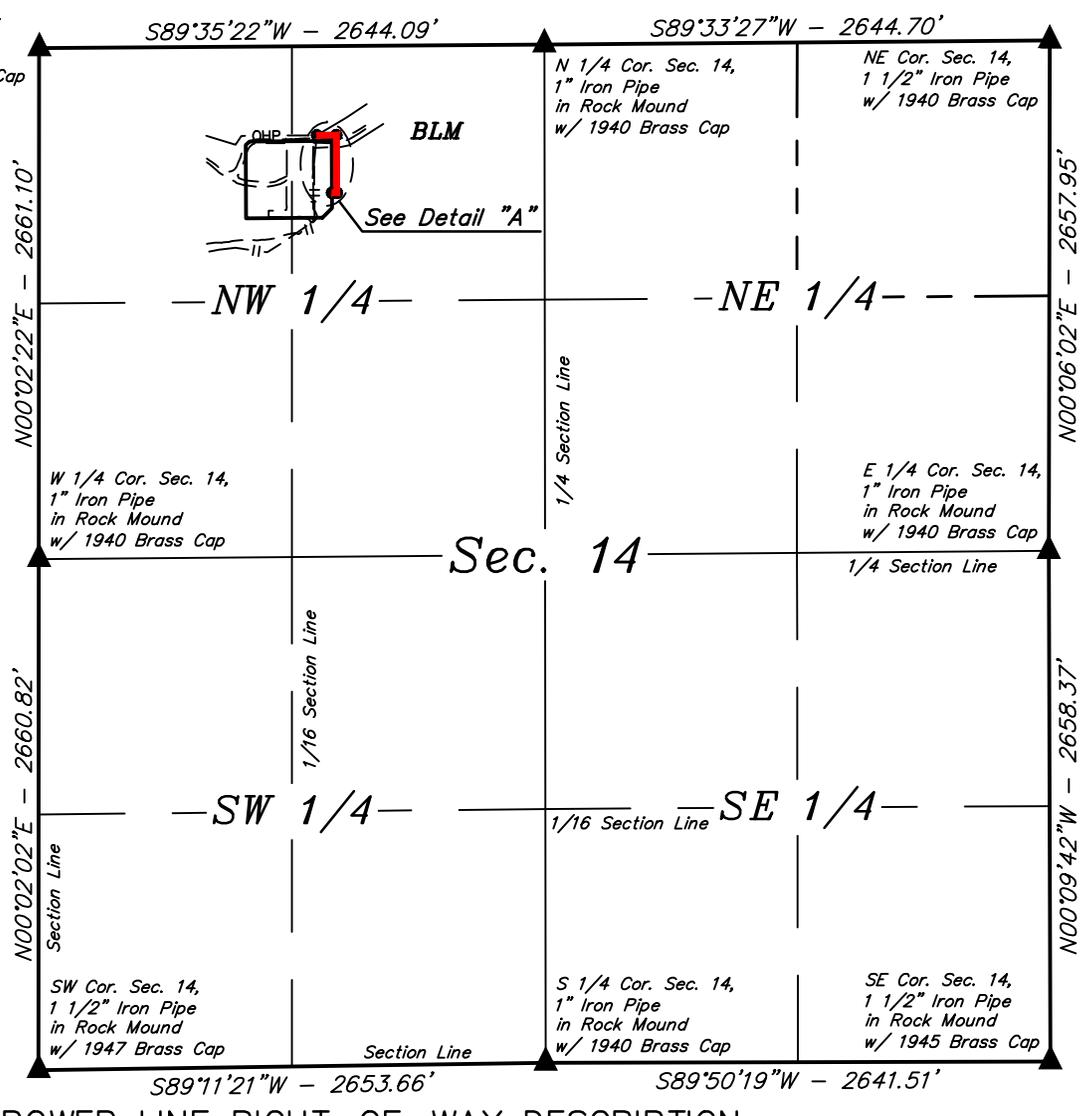


UELS, LLC
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 Vernal, UT 84078 * (435) 789-1017



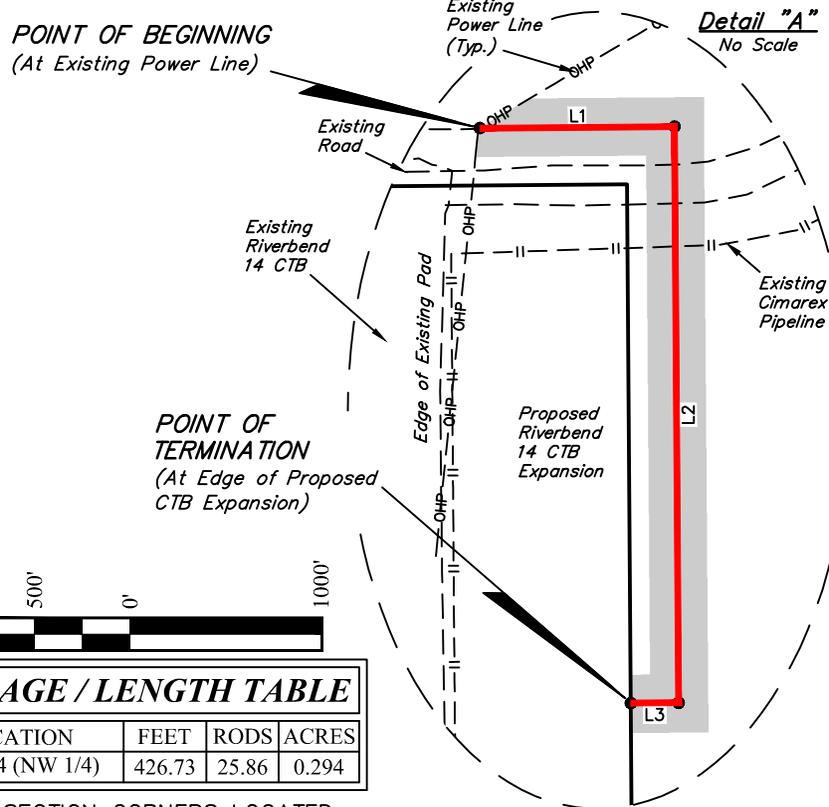


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°33'26"E	101.78'
L2	S00°24'38"E	299.95'
L3	S89°35'22"W	25.00'



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

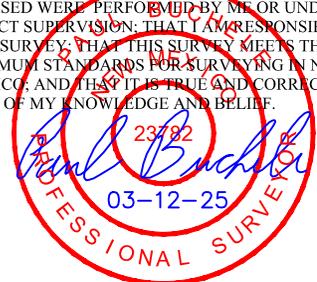
COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 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.

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.



ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	426.73	25.86	0.294

▲ = SECTION CORNERS LOCATED.

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



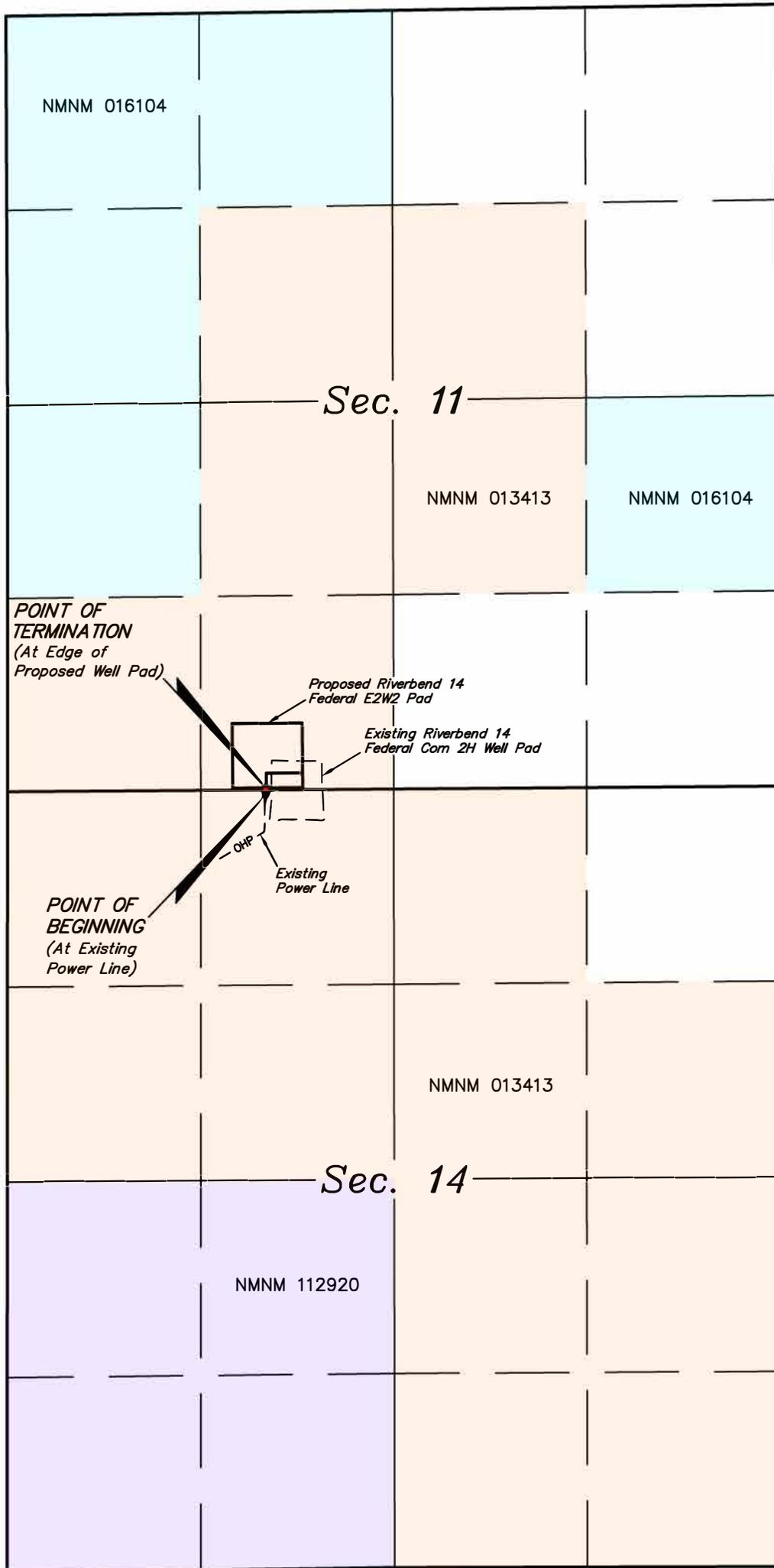
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



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**



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

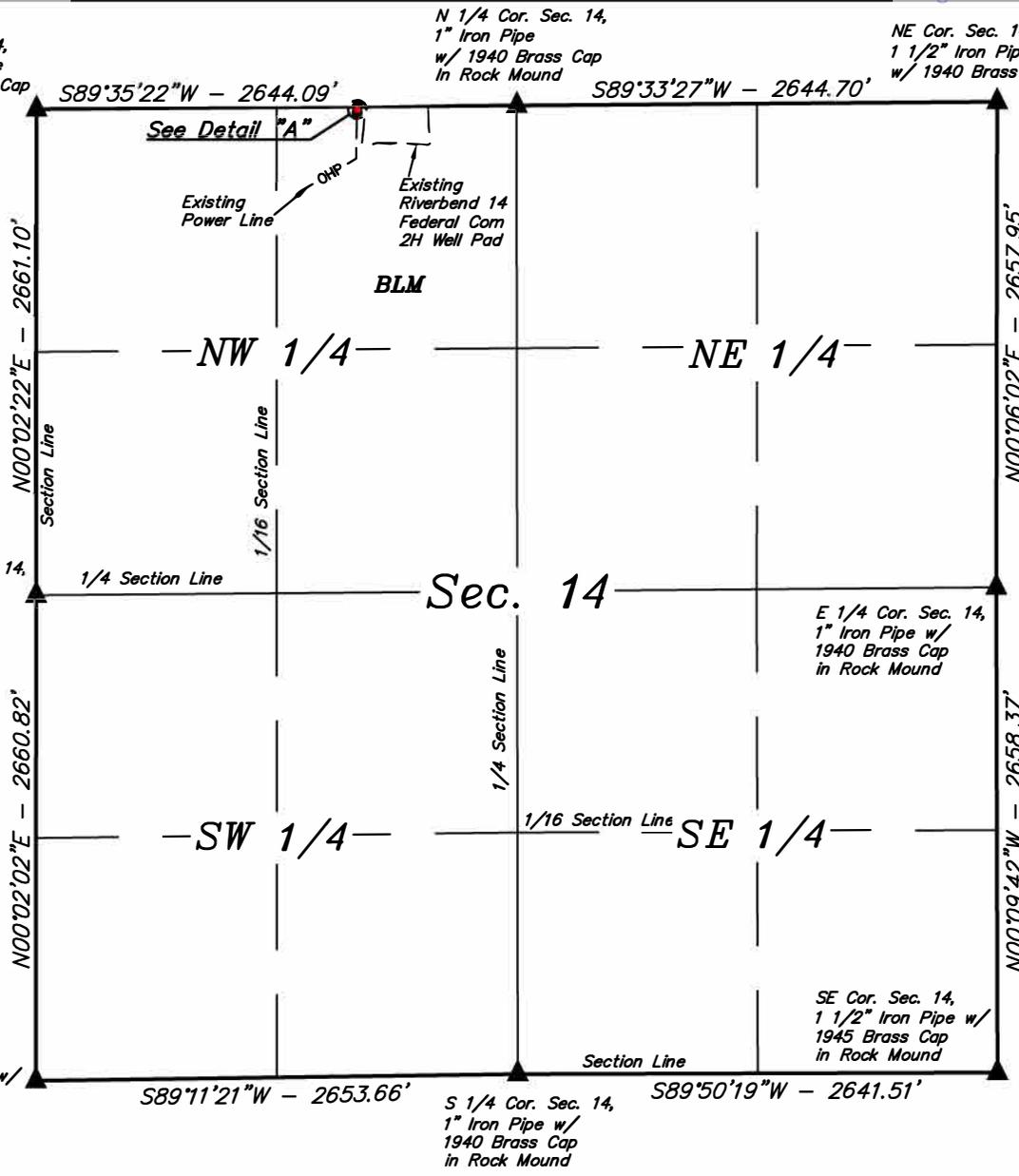
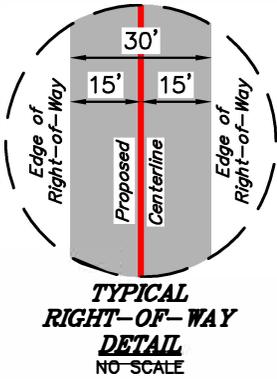
LEGEND:

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



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			

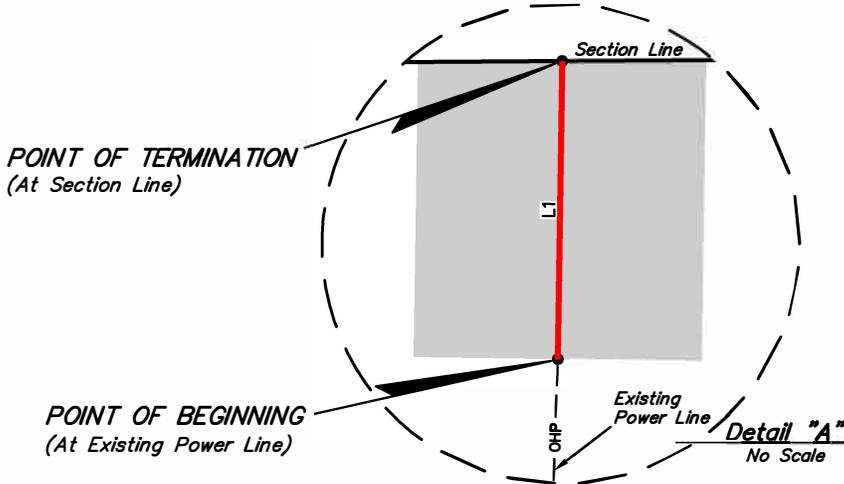
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N00°50'43"E	30.84'



POWER LINE RIGHT-OF-WAY DESCRIPTION

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

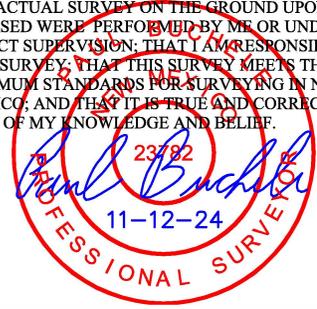
COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S87°34'46"W 879.10' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N00°50'43"E 30.84' TO A POINT ON THE 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.



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



▲ = 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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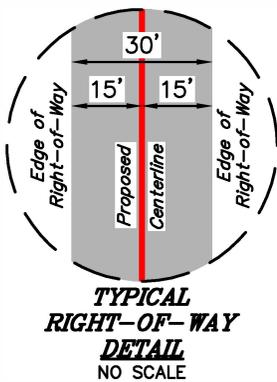


CIMAREX ENERGY CO.
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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



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

W 1/4 Cor. Sec. 11,
1" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

N 1/4 Cor. Sec. 11,
1" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

NE Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

SW Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1946 Brass Cap
In Rock Mound

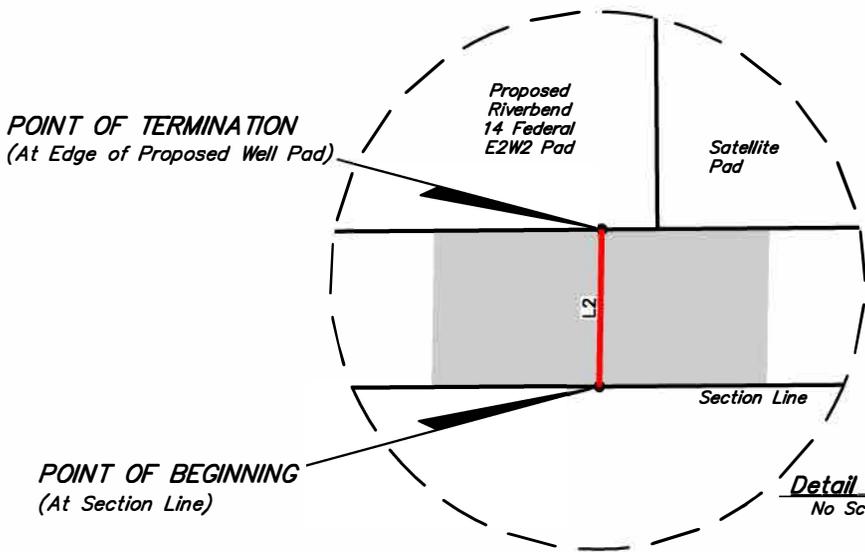
S 1/4 Cor. Sec. 11,
1" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

SE Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1940 Brass Cap

POWER LINE RIGHT-OF-WAY DESCRIPTION

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

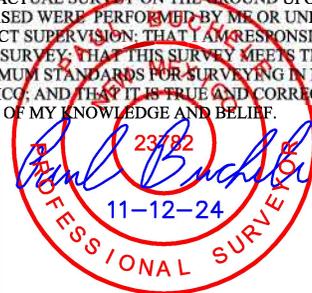
COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 877.88' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 TO THE POINT OF BEGINNING; THENCE N00°50'43"E 14.00' TO A POINT 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.



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



▲ = 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)



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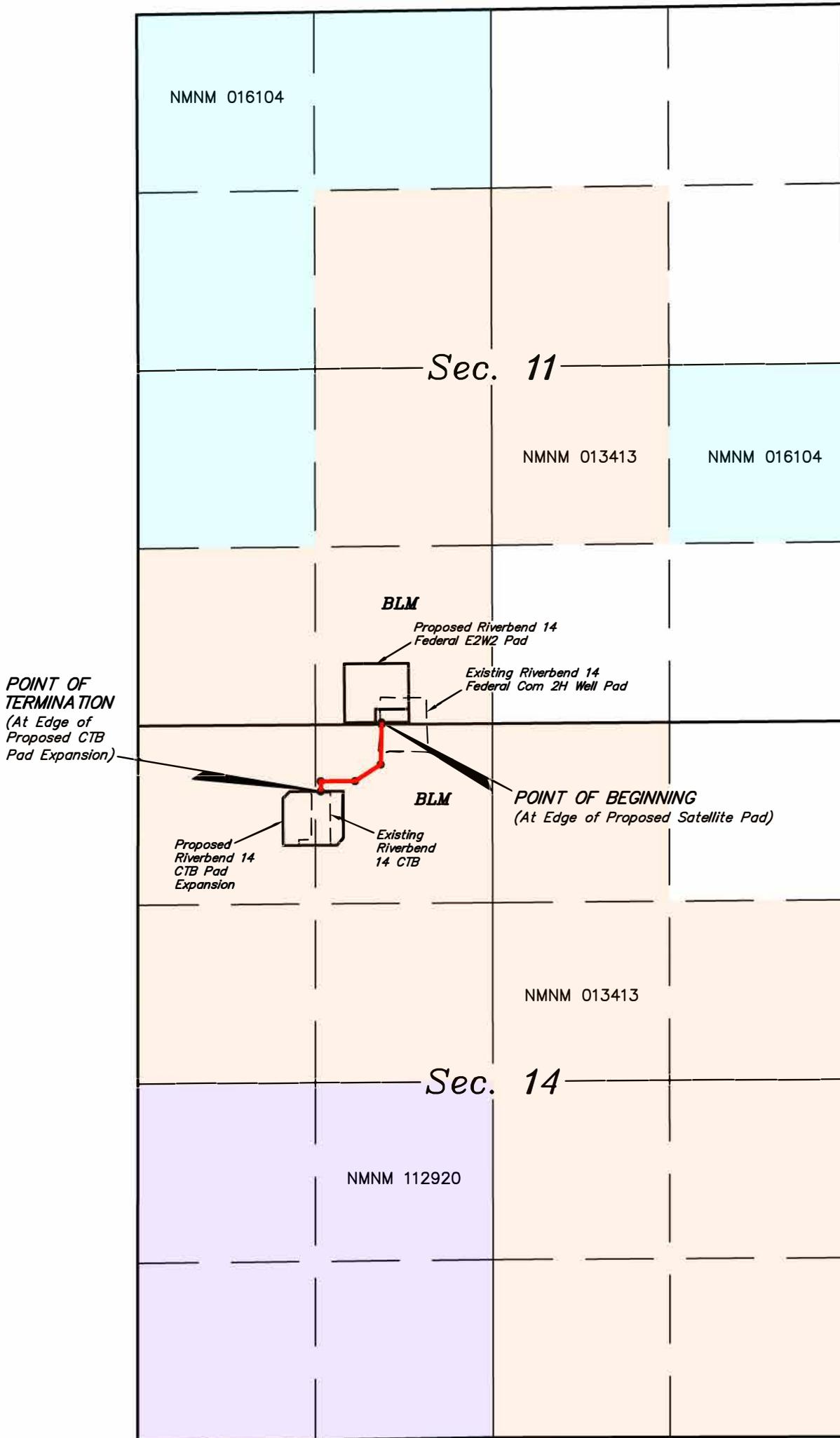


CIMAREX ENERGY CO.
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-B1		

POWER LINE R-O-W

EXHIBIT I



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

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

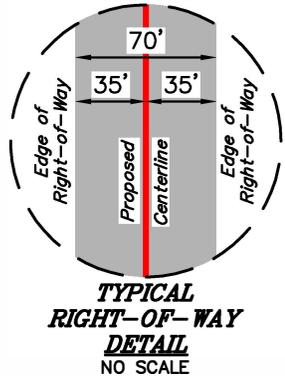
LEGEND:
 — PROPOSED CENTERLINE
 — SECTION LINE
 — 1/4 SECTION LINE
 — 1/16 SECTION LINE



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'



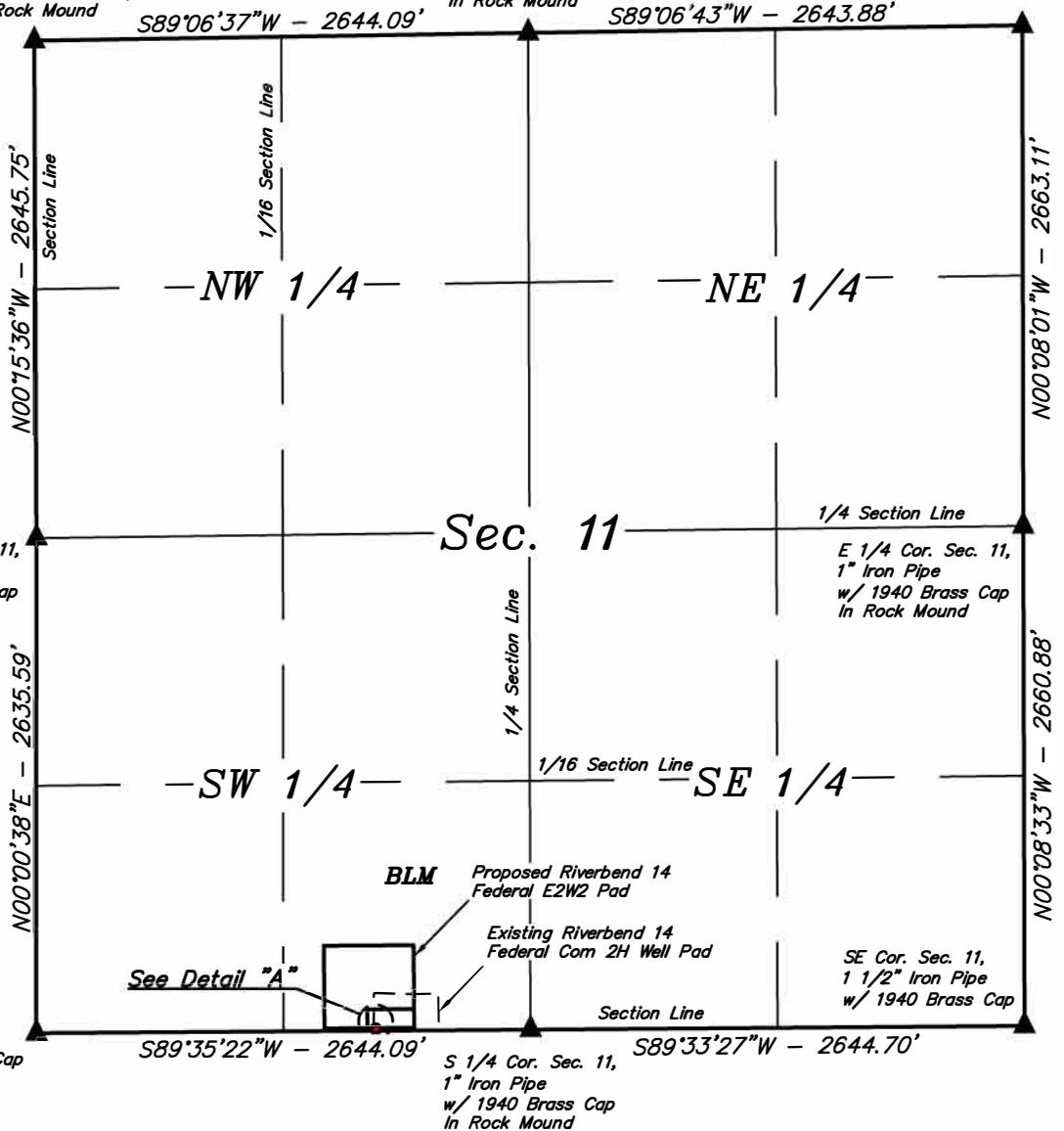
W 1/4 Cor. Sec. 11,
1" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

SW Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1946 Brass Cap
In Rock Mound

NW Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1942 Brass Cap
In Rock Mound

N 1/4 Cor. Sec. 11,
1" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

NE Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound



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.

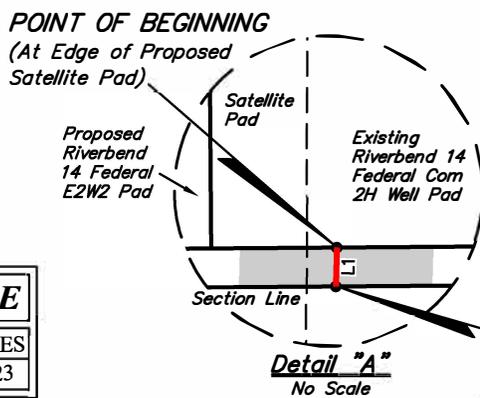
POINT OF BEGINNING BEARS N89°26'26"W 827.06' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

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.

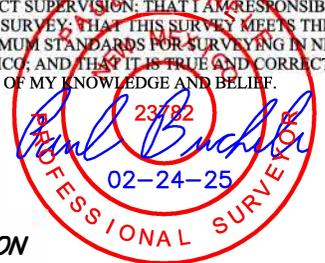


ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 11 (SW 1/4)	14.01	0.85	0.023

▲ = 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.



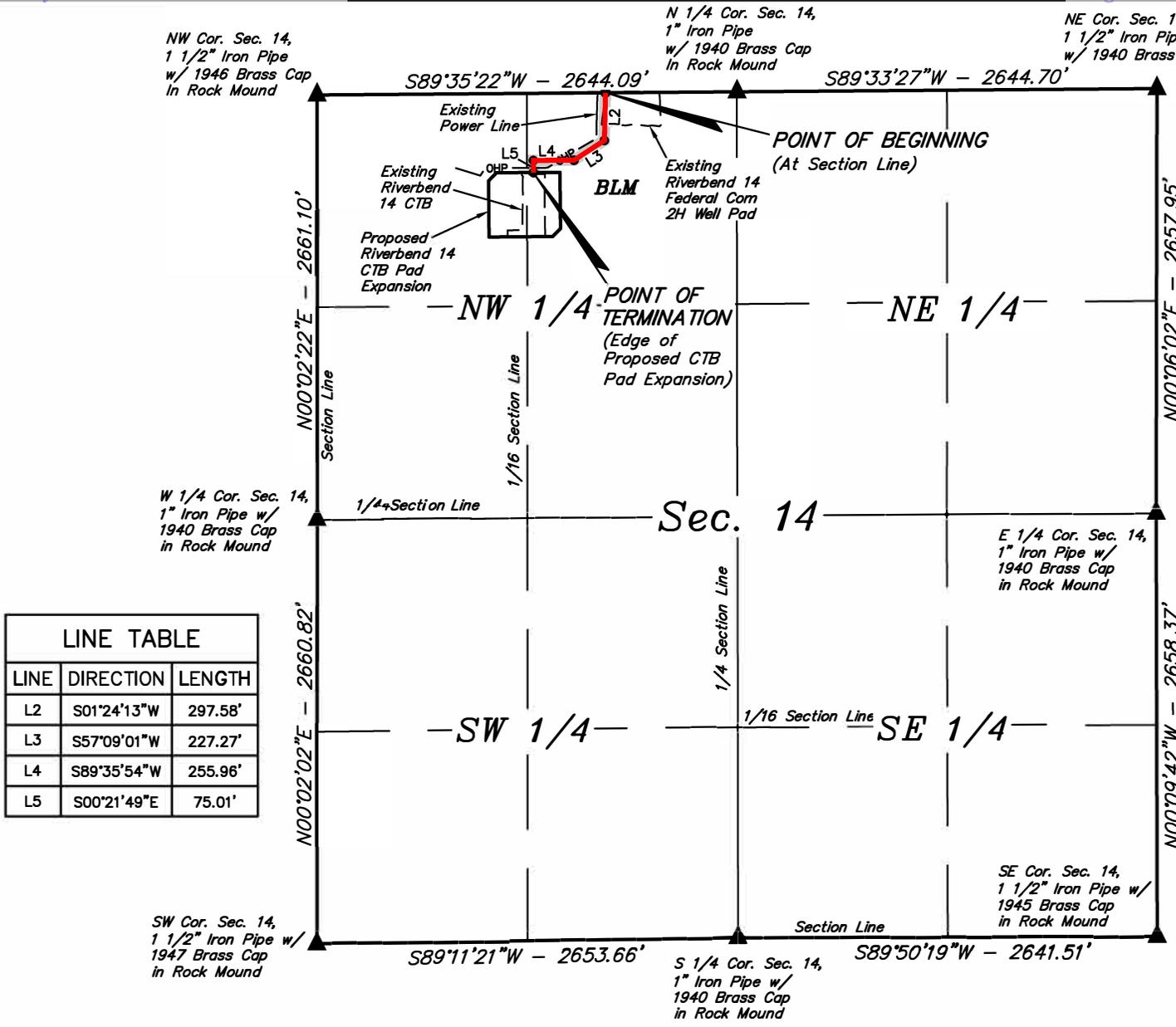
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



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**



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'

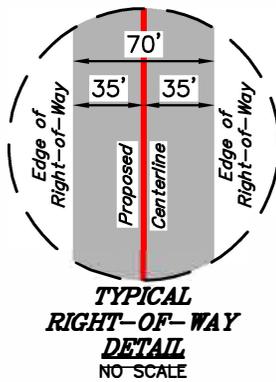
BULK LINE RIGHT-OF-WAY DESCRIPTION

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

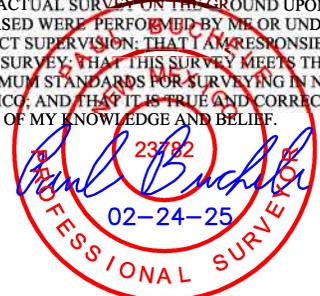
COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 827.38' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S01°24'13"W 297.58'; THENCE 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.



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.



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

▲ = SECTION CORNERS LOCATED.

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

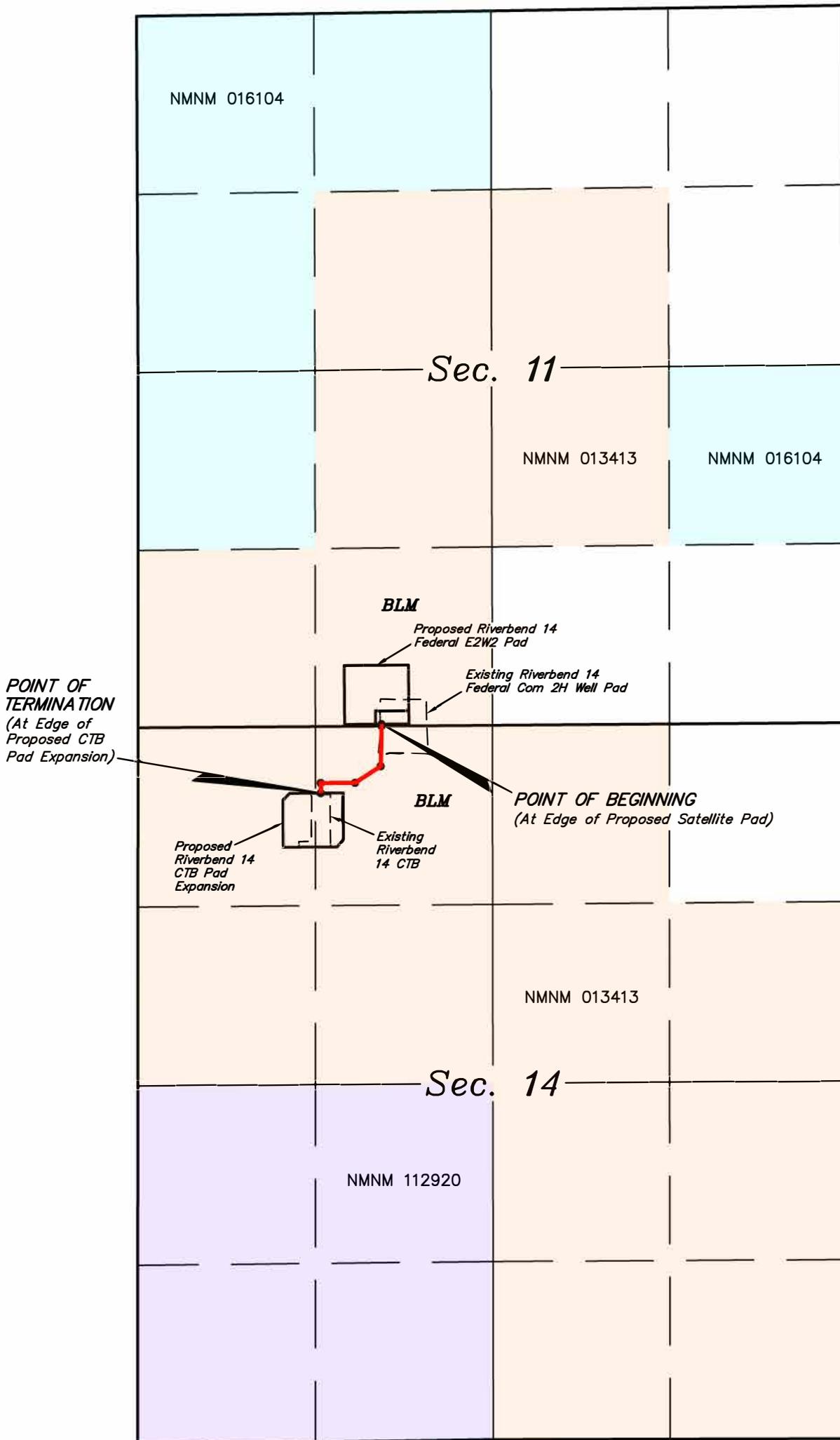
SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-B1		

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.

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

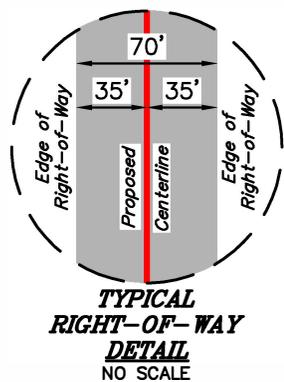
LEGEND:
 — PROPOSED CENTERLINE
 — SECTION LINE
 — 1/4 SECTION LINE
 — 1/16 SECTION LINE



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'



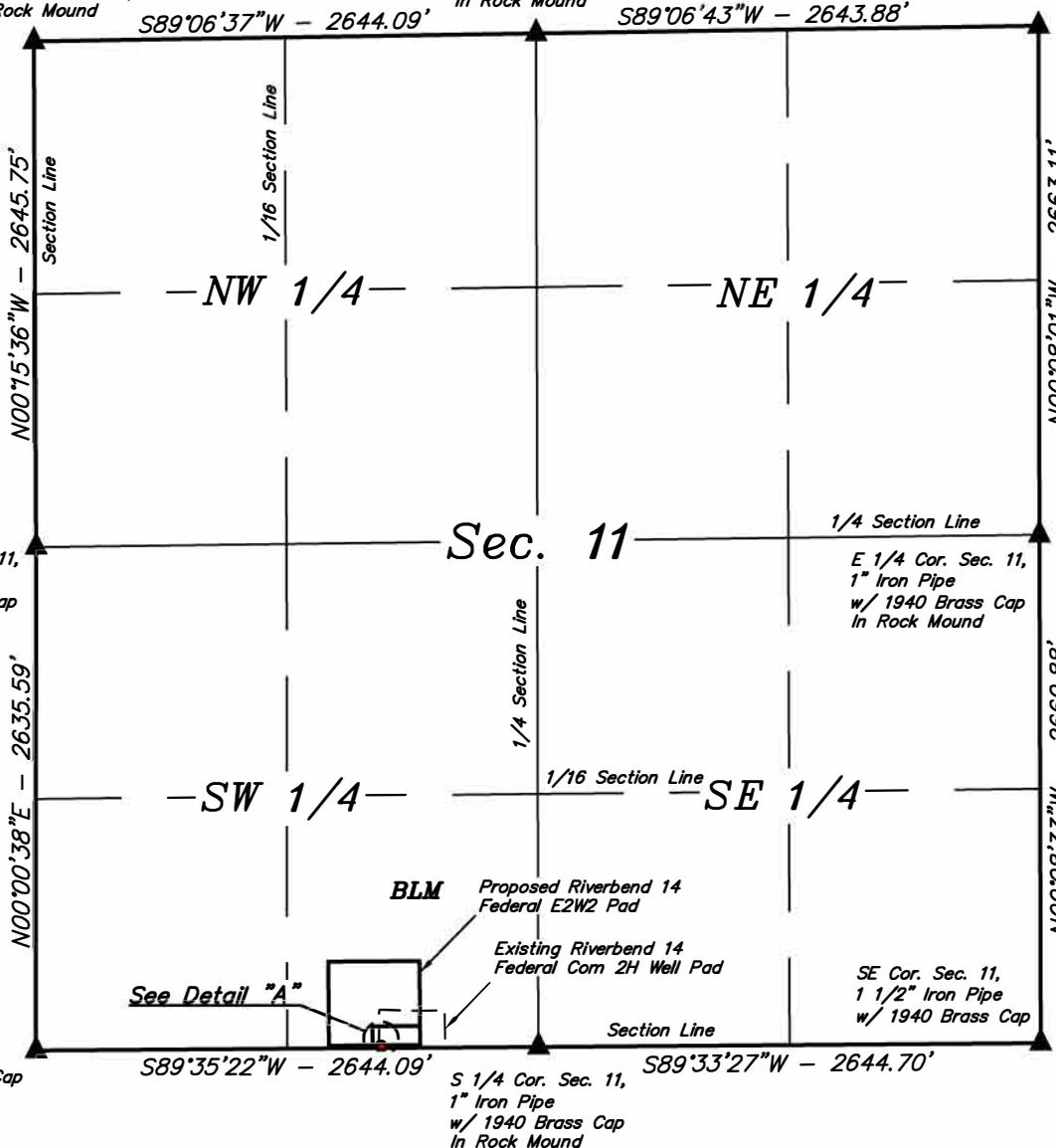
W 1/4 Cor. Sec. 11,
1" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

SW Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1946 Brass Cap
In Rock Mound

NW Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1942 Brass Cap
In Rock Mound

N 1/4 Cor. Sec. 11,
1" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

NE Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound



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.

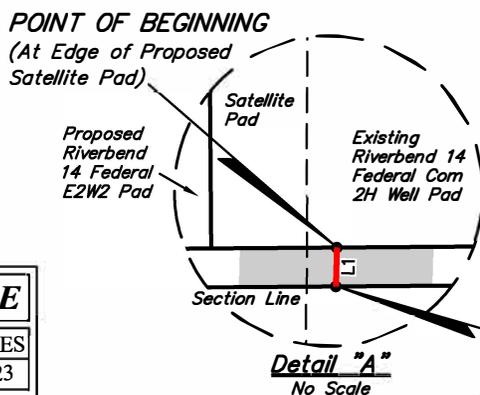
POINT OF BEGINNING BEARS N89°26'26"W 827.06' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

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.

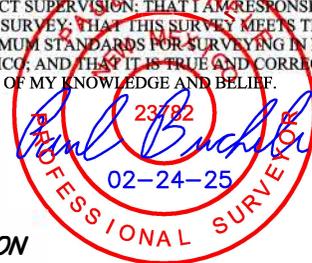


ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 11 (SW 1/4)	14.01	0.85	0.023

▲ = 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.



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

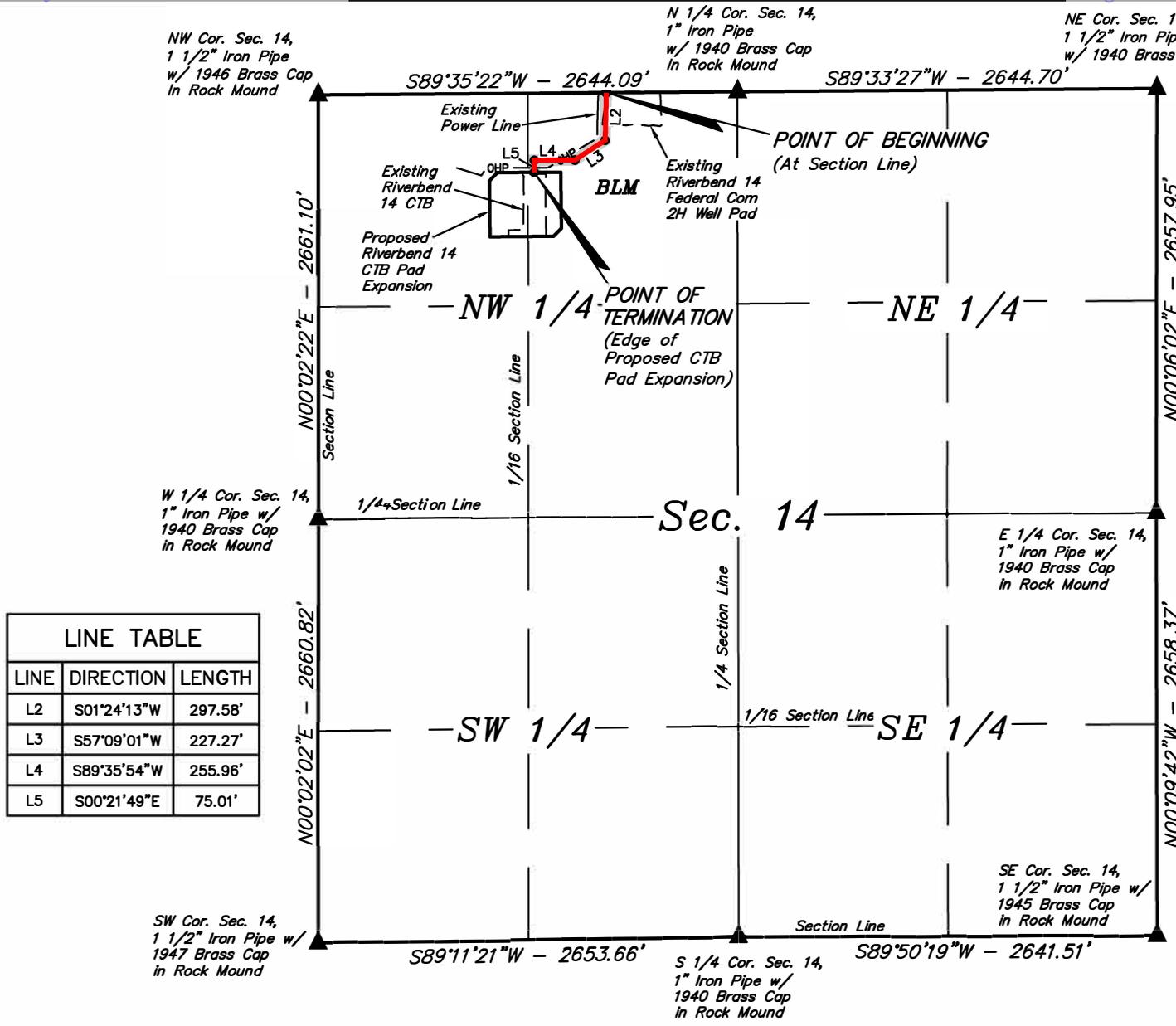


CIMAREX ENERGY CO.
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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



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'

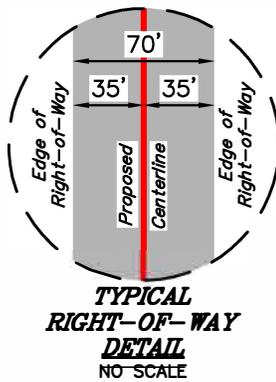
BULK LINE RIGHT-OF-WAY DESCRIPTION

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

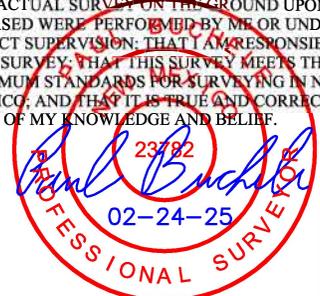
COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 827.38' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S01°24'13"W 297.58'; THENCE 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.



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

▲ = SECTION CORNERS LOCATED.

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

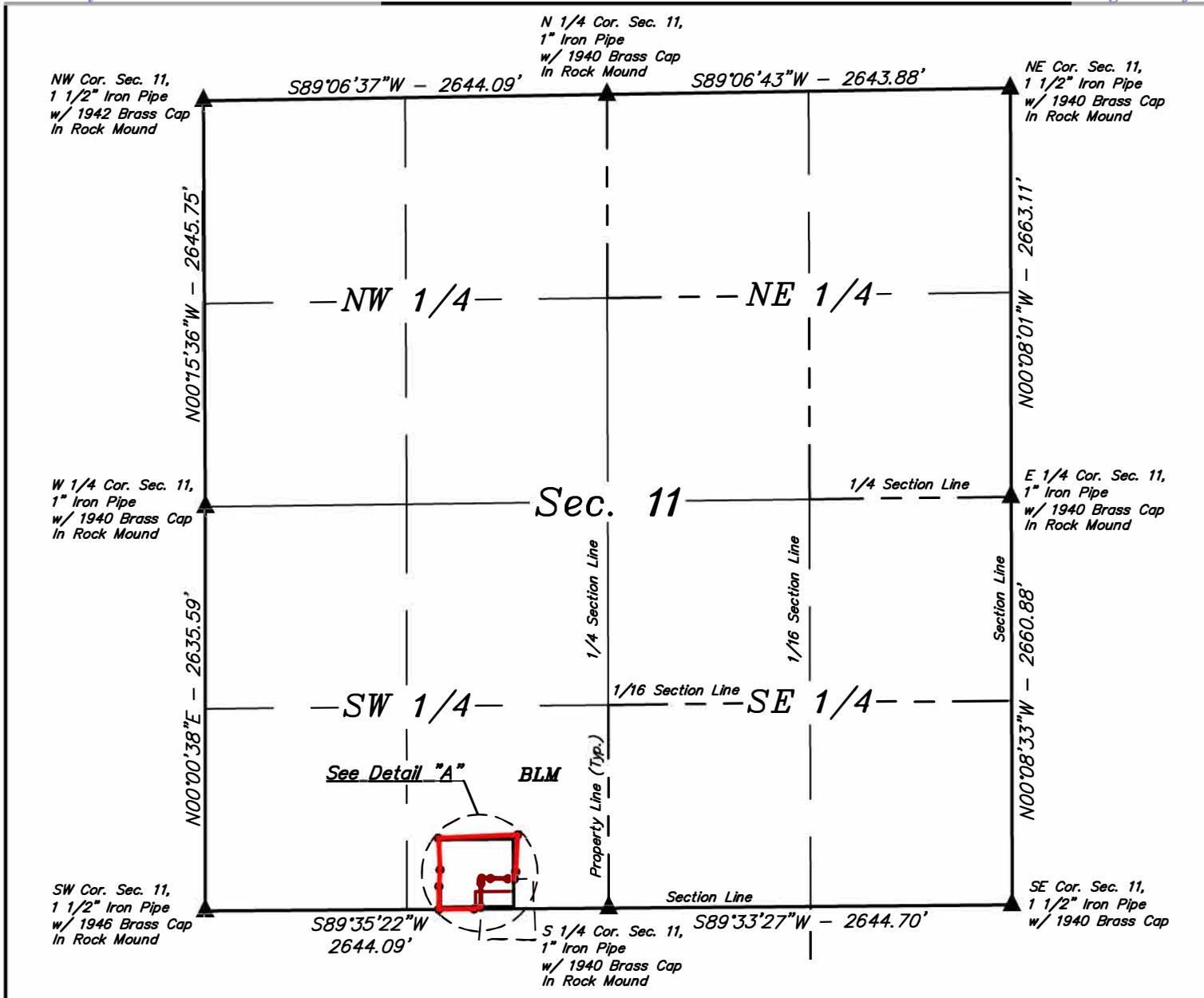
SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-B1		

BULK LINE R-O-W

EXHIBIT G



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



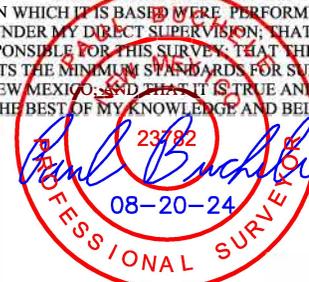
SURFACE USE AREA DESCRIPTION

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.

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.



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

▲ = 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)



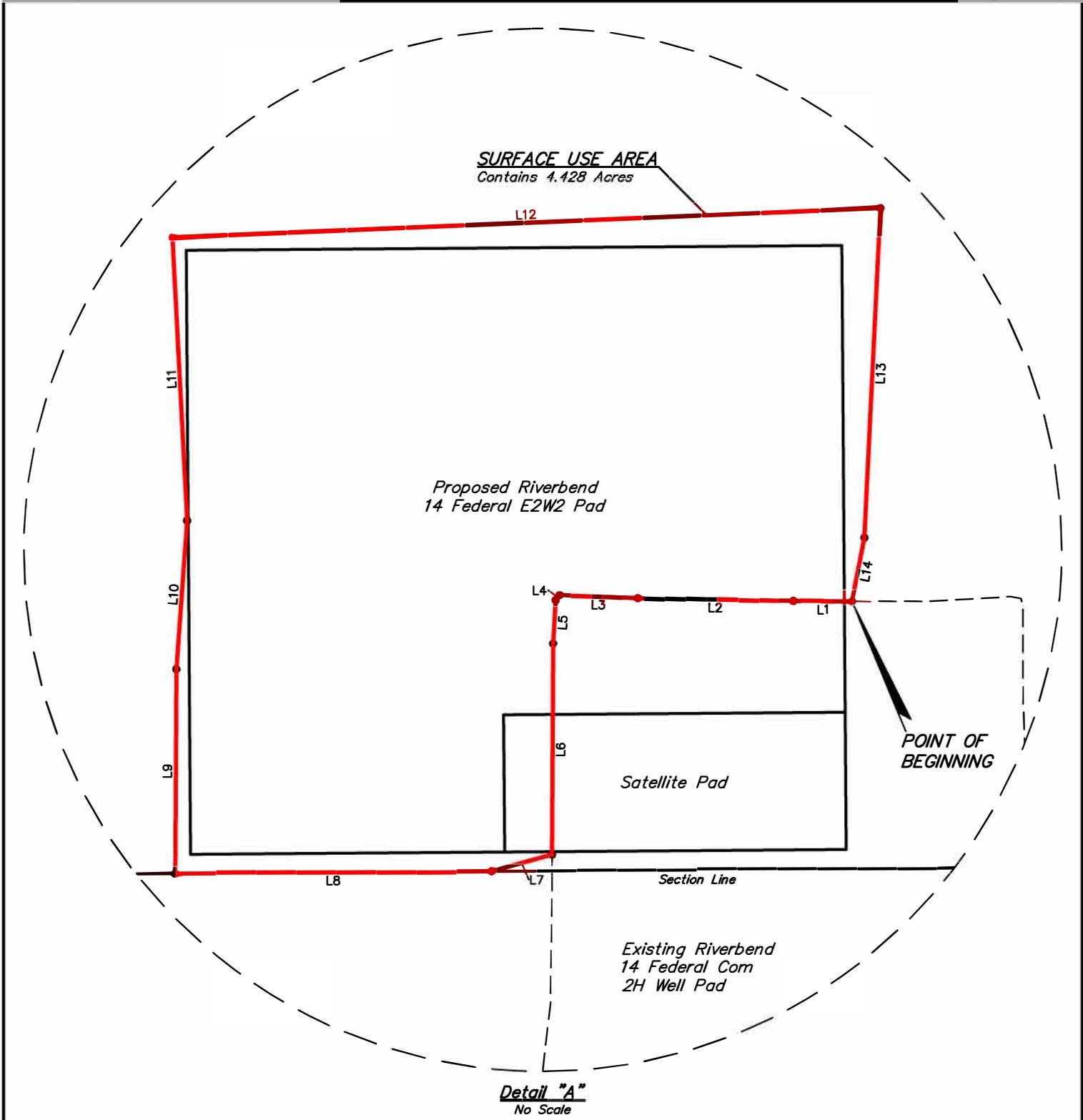
CIMAREX ENERGY CO.
 RIVERBEND 14 FEDERAL E2W2
 ON BLM LANDS IN
 SECTION 11, T25S, R28E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	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
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Sheet 2 of 2

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



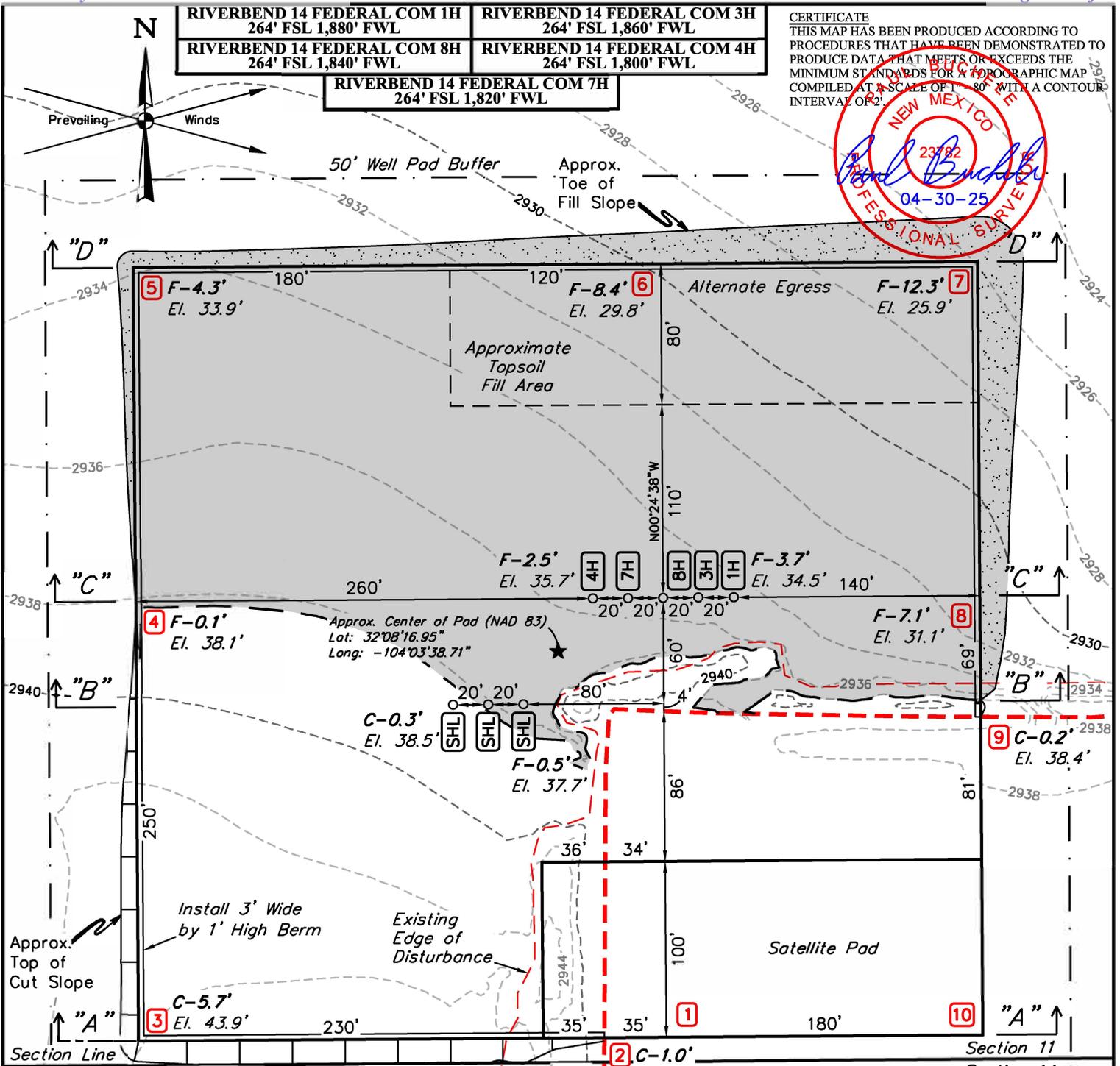
CIMAREX ENERGY CO.
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	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



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'.



FINISHE DGRADE ELEVATION = 2,938.2'

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)

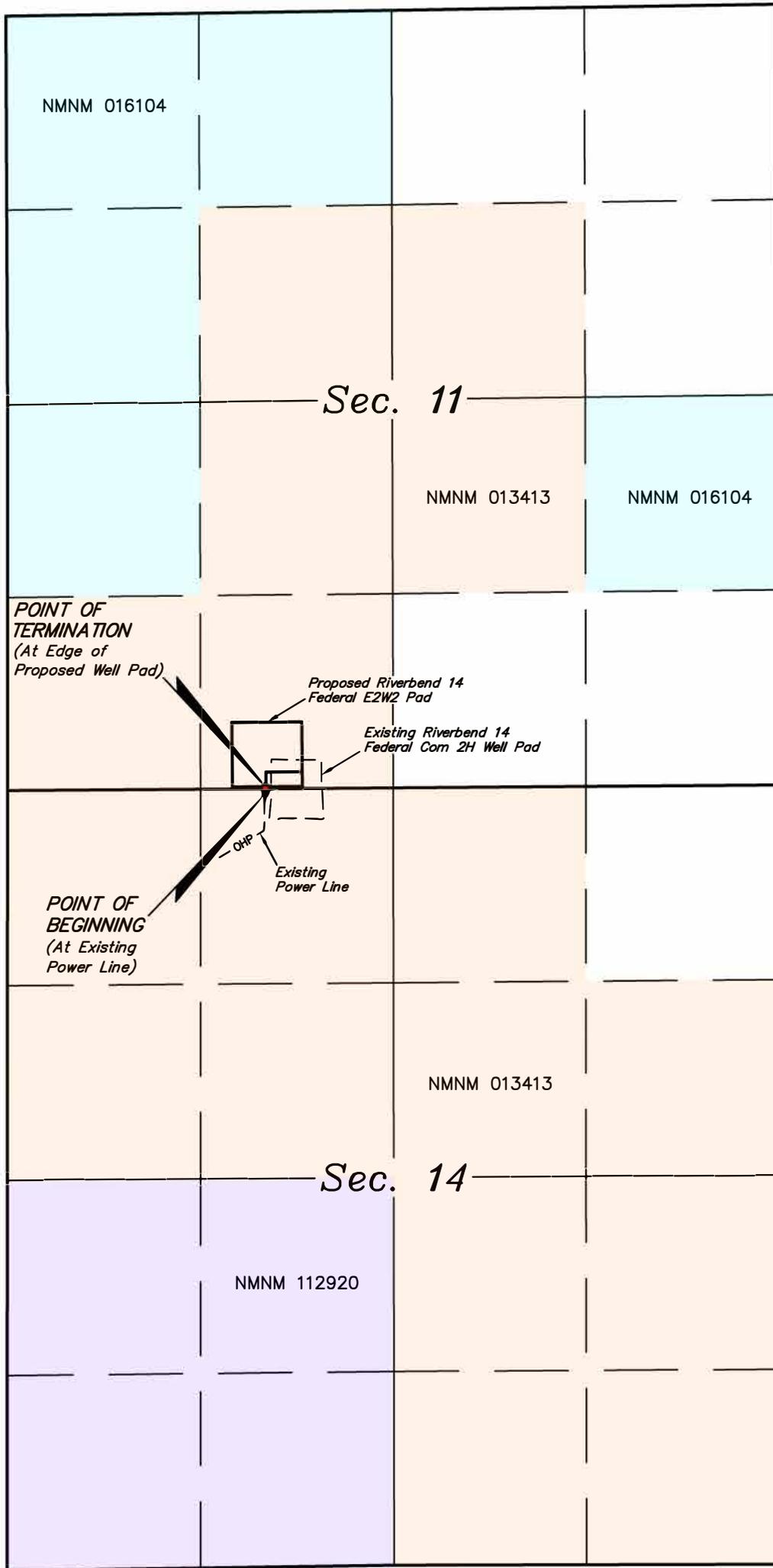
- NOTES:**
- Flare pit is to be located a min. of 100' from the wellhead.
 - Contours shown at 2' intervals.
 - Cut/Fill slopes 2:1 (Typ.)
 - Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
 - Basis of Bearings is 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	



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.

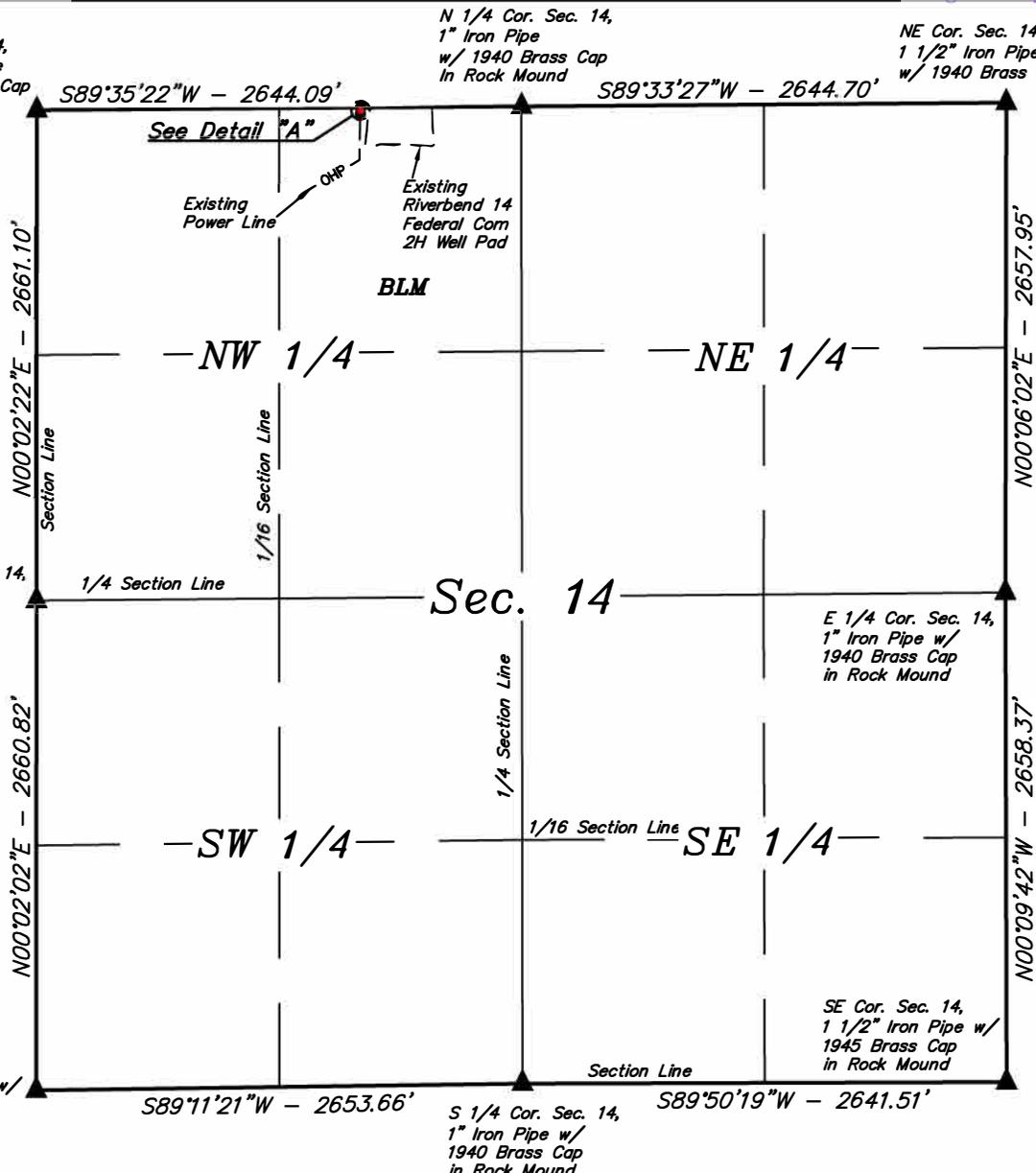
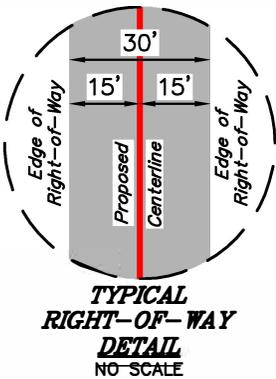
LEGEND:

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



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			

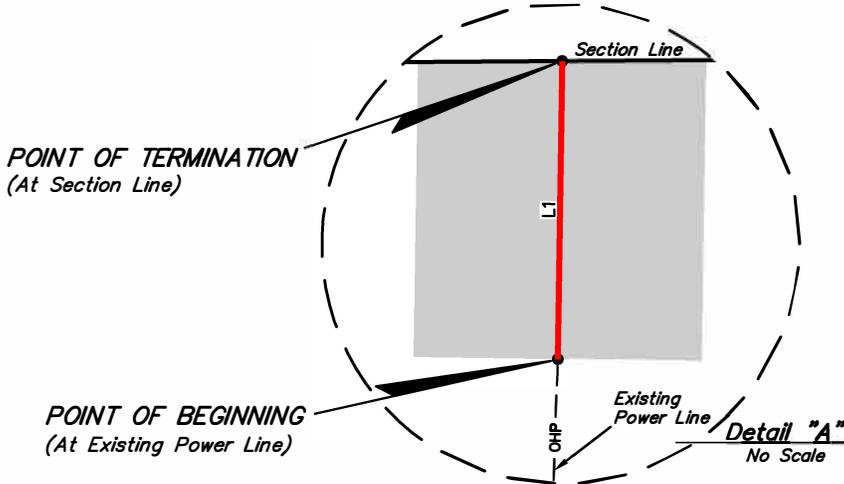
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N00°50'43"E	30.84'



POWER LINE RIGHT-OF-WAY DESCRIPTION

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

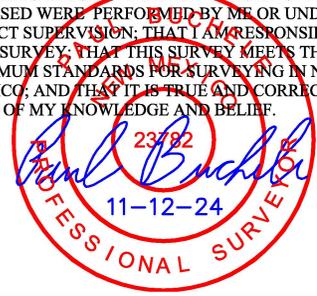
COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S87°34'46"W 879.10' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N00°50'43"E 30.84' TO A POINT ON THE 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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ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	30.84	1.87	0.021



▲ = SECTION CORNERS LOCATED.

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

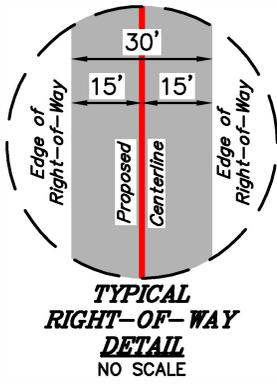


CIMAREX ENERGY CO.
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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



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

W 1/4 Cor. Sec. 11,
1" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

N 1/4 Cor. Sec. 11,
1" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

NE Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

SW Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1946 Brass Cap
In Rock Mound

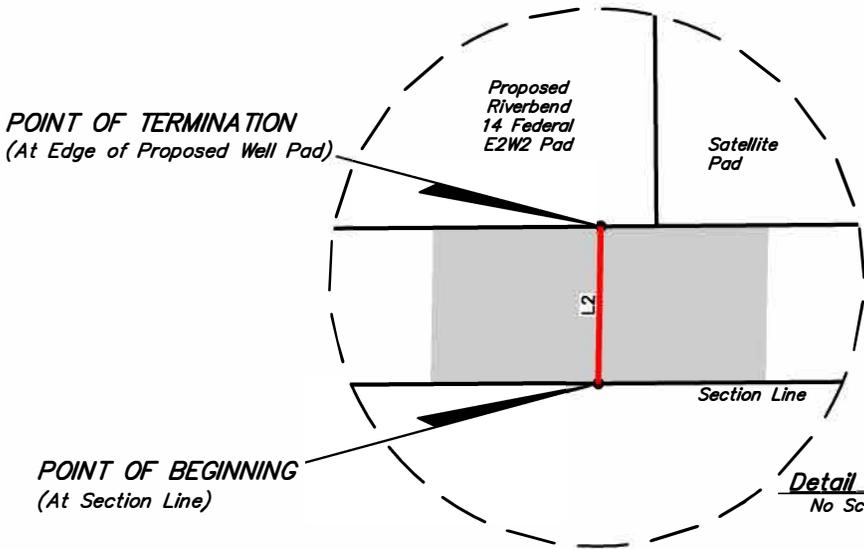
S 1/4 Cor. Sec. 11,
1" Iron Pipe
w/ 1940 Brass Cap
In Rock Mound

SE Cor. Sec. 11,
1 1/2" Iron Pipe
w/ 1940 Brass Cap

POWER LINE RIGHT-OF-WAY DESCRIPTION

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

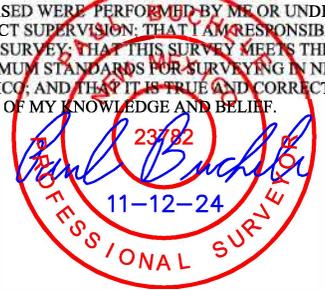
COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 877.88' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 TO THE POINT OF BEGINNING; THENCE N00°50'43"E 14.00' TO A POINT 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.

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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.

Sheet 1 of 2

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



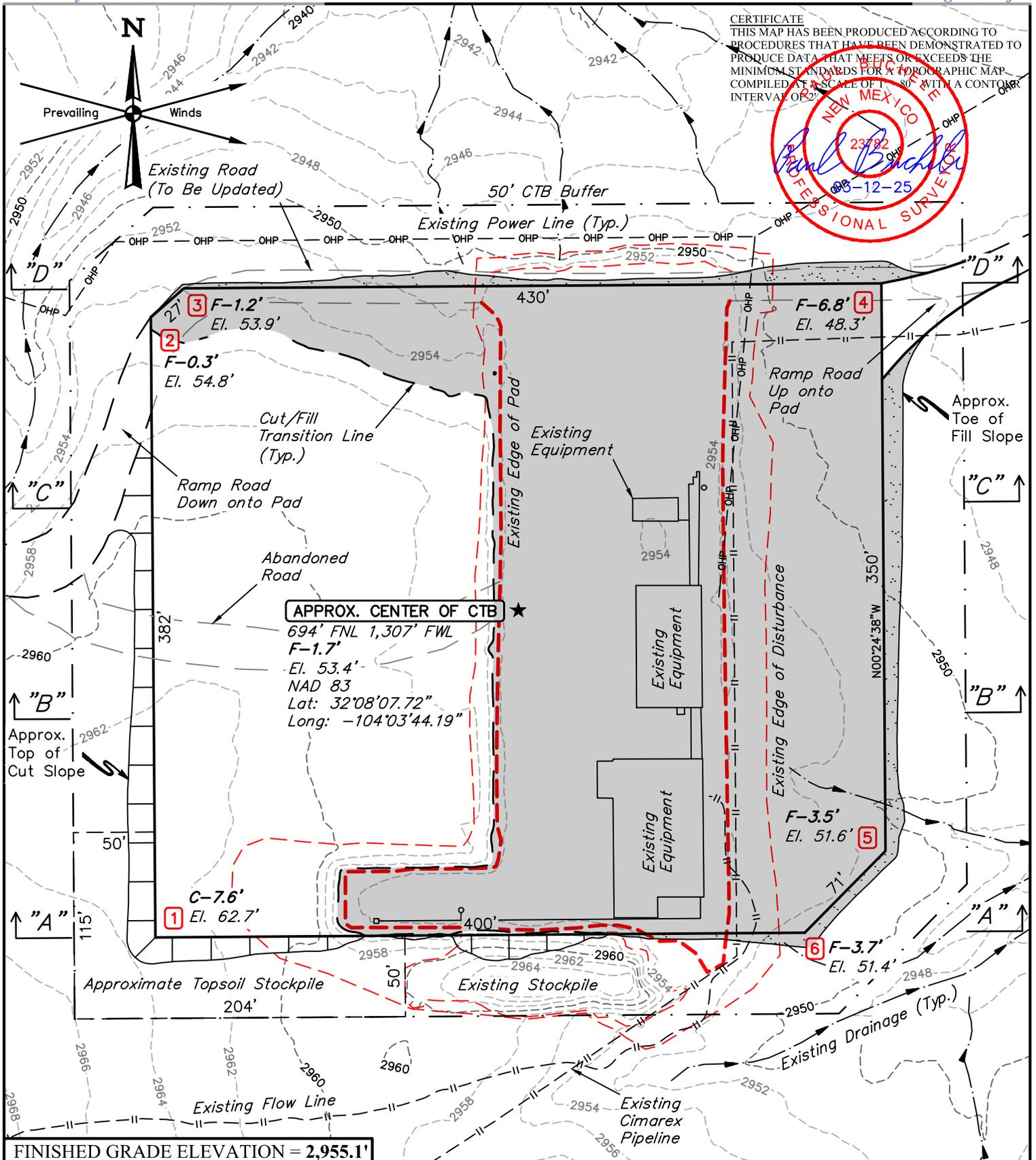
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



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**



- 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.

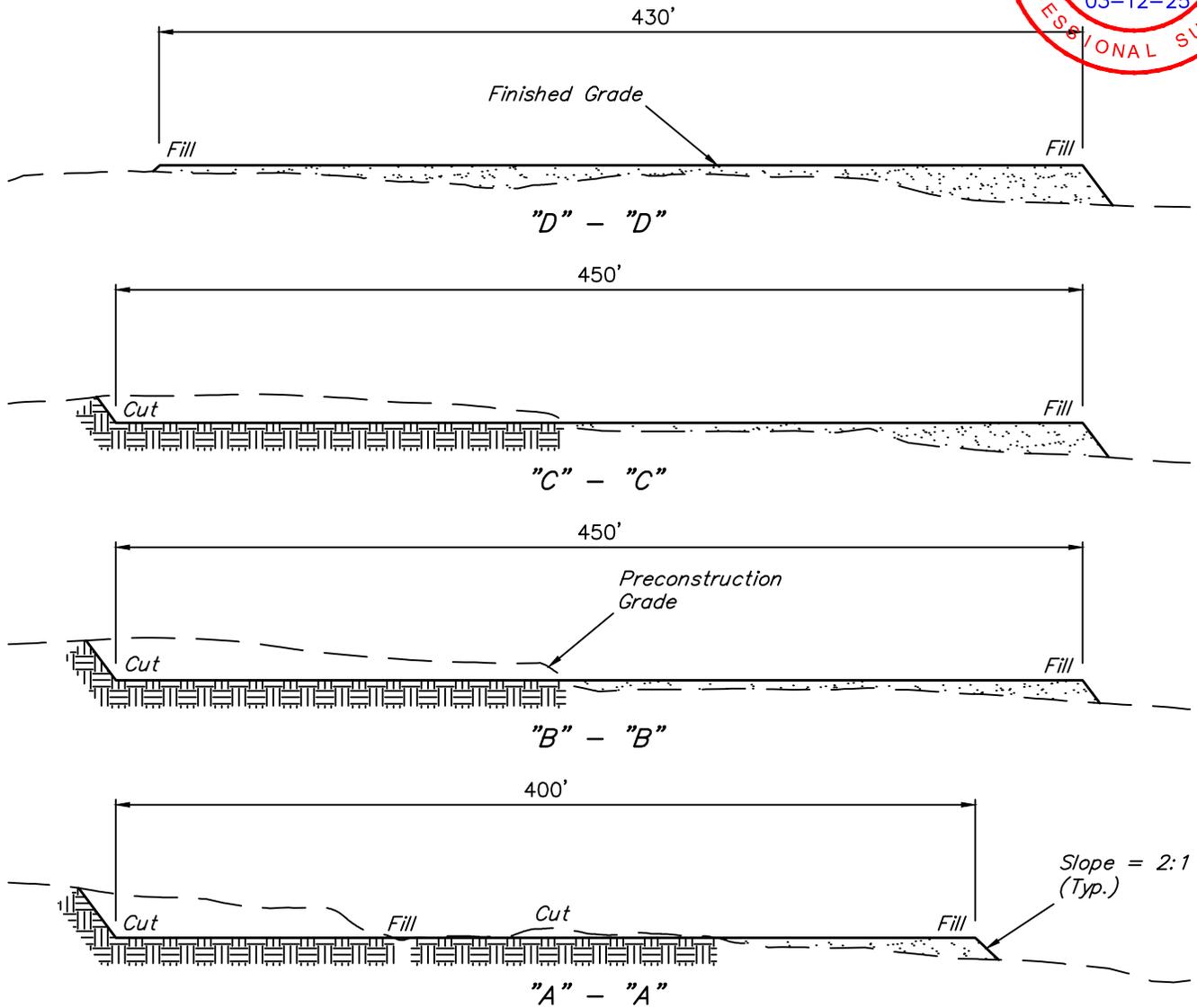
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
LOCATION LAYOUT		EXHIBIT F	



UELS, LLC
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 Vernal, UT 84078 * (435) 789-1017

X-Section Scale
1" = 80'



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.

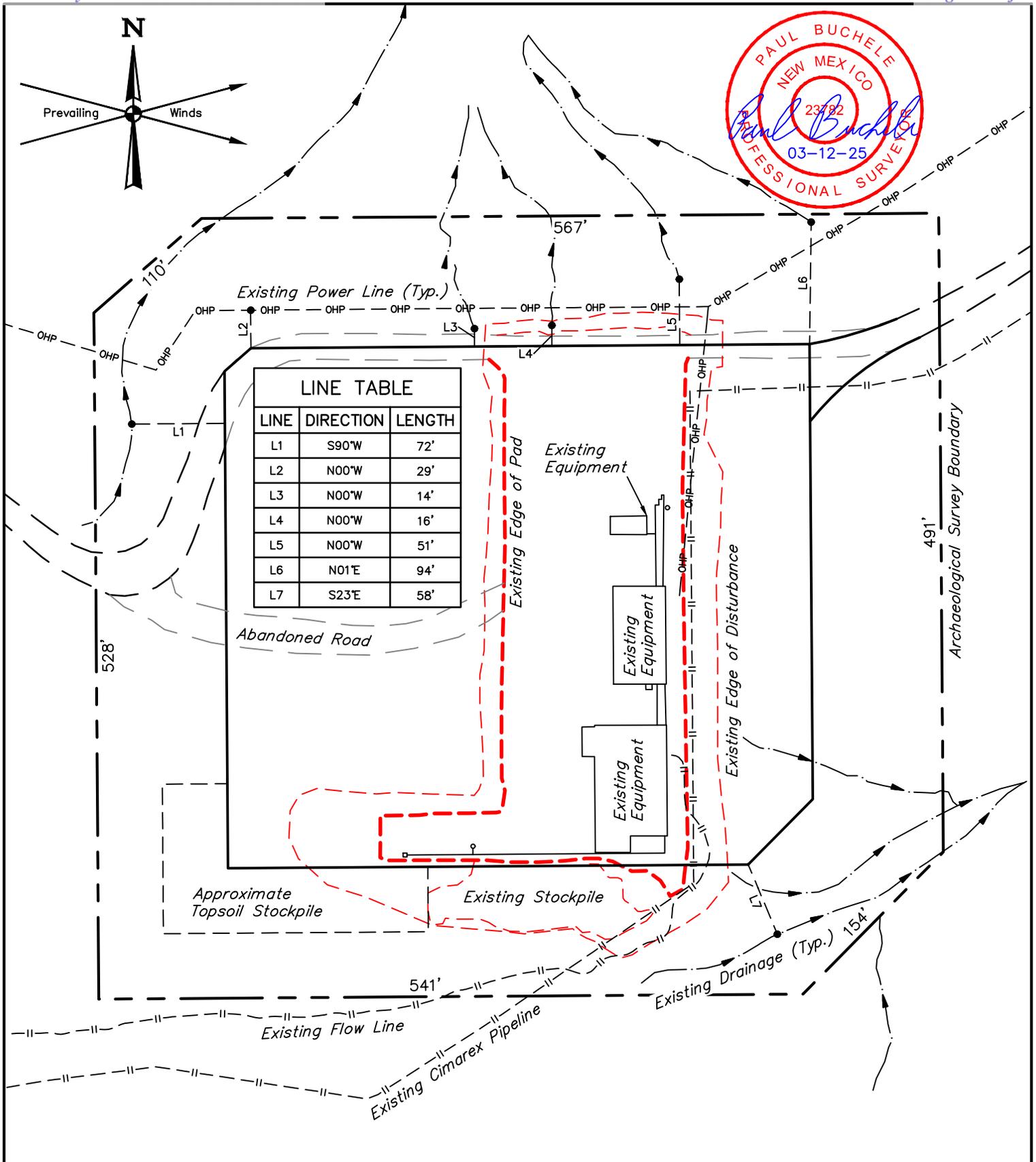
CIMAREX ENERGY CO.

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



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LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S90°W	72'
L2	N00°W	29'
L3	N00°W	14'
L4	N00°W	16'
L5	N00°W	51'
L6	N01°E	94'
L7	S23°E	58'

NOTES:

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

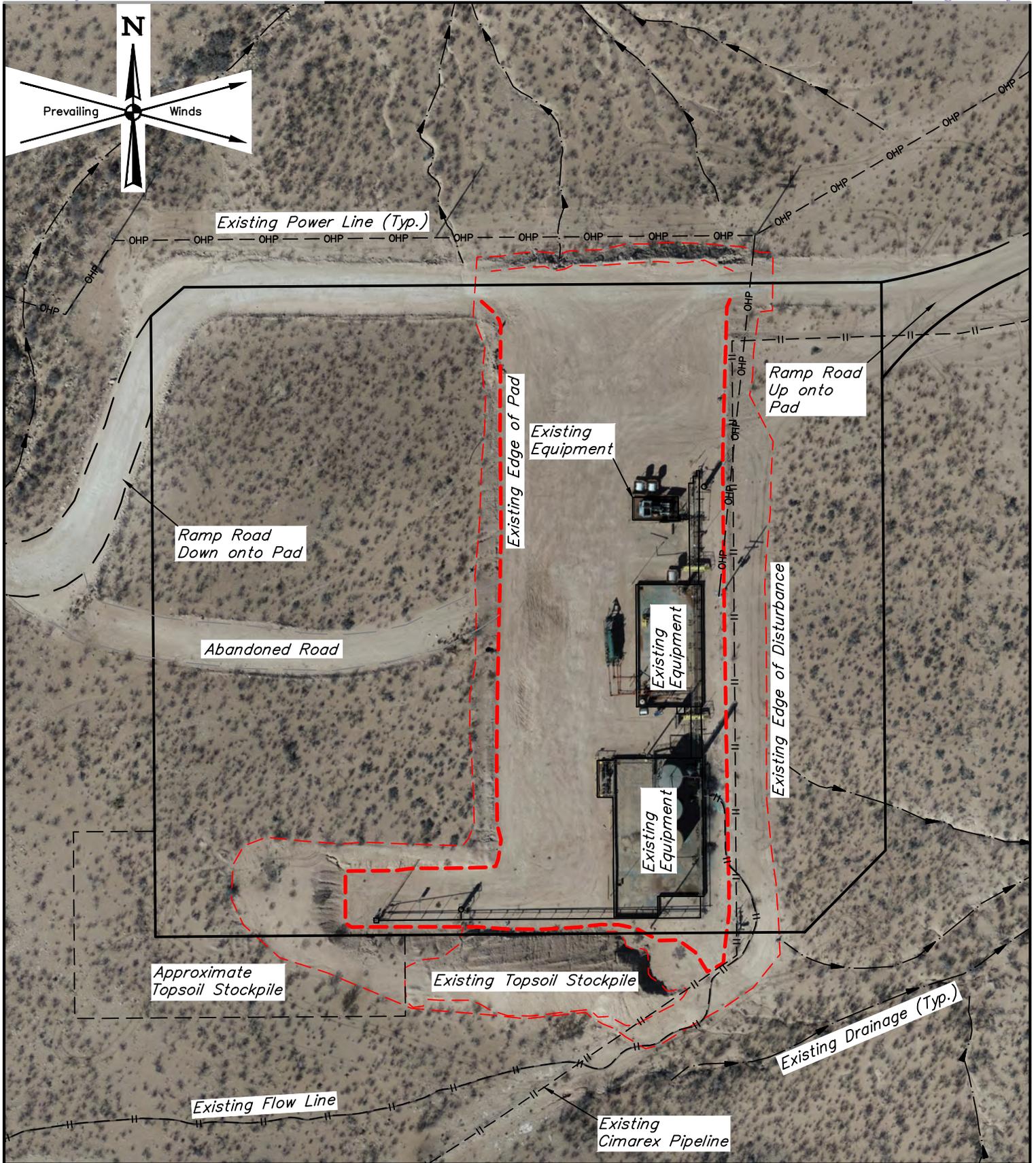
CIMAREX ENERGY CO.

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



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- 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



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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.

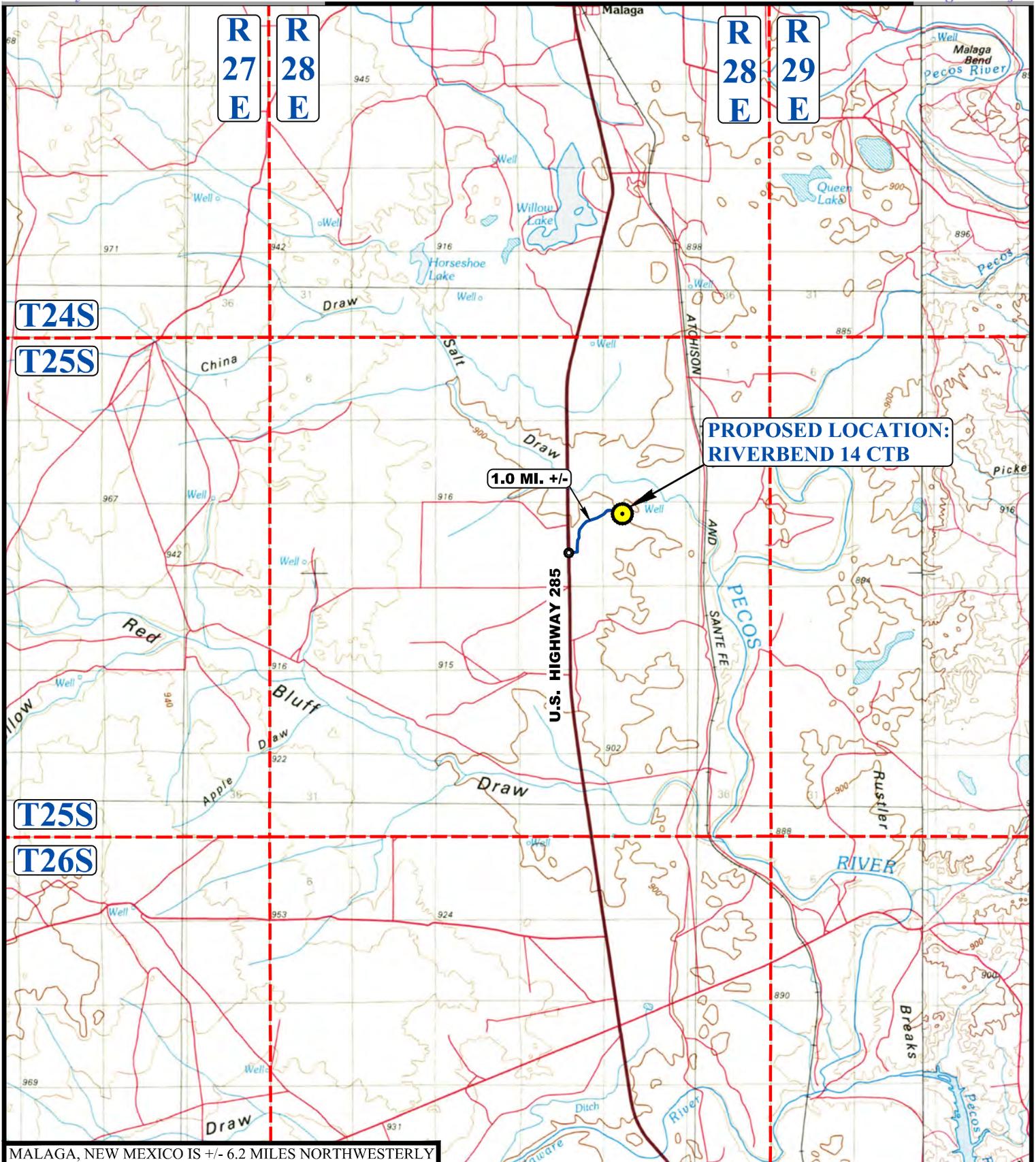
**RIVERBEND 14 CTB
 694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
 NW 1/4 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO**

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	
ROAD DESCRIPTION		EXHIBIT F	

UELS, LLC

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 Vernal, UT 84078 * (435) 789-1017





MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

 **PROPOSED LOCATION**



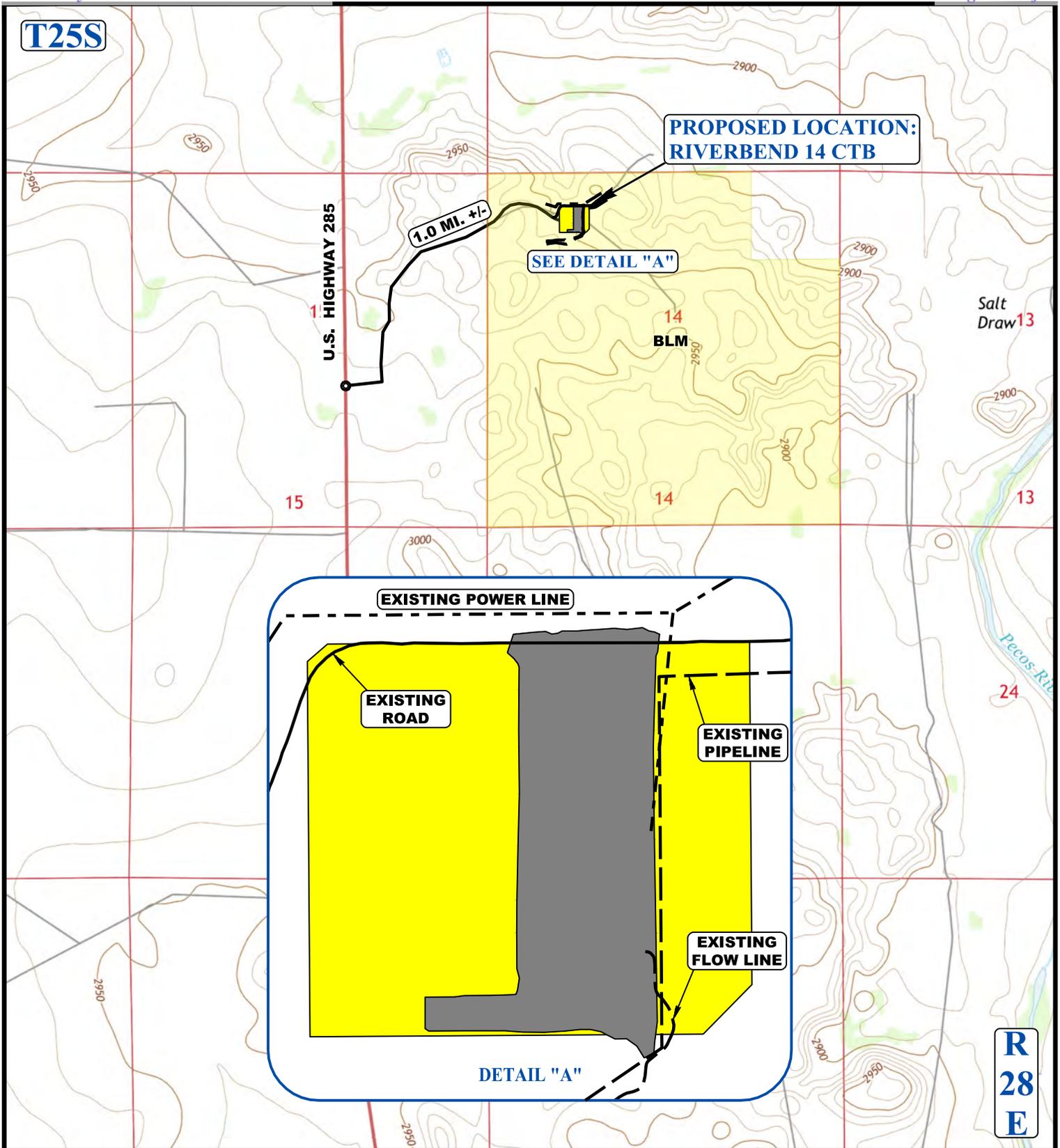
CIMAREX ENERGY CO.

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



UELS, LLC
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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



CIMAREX ENERGY CO.

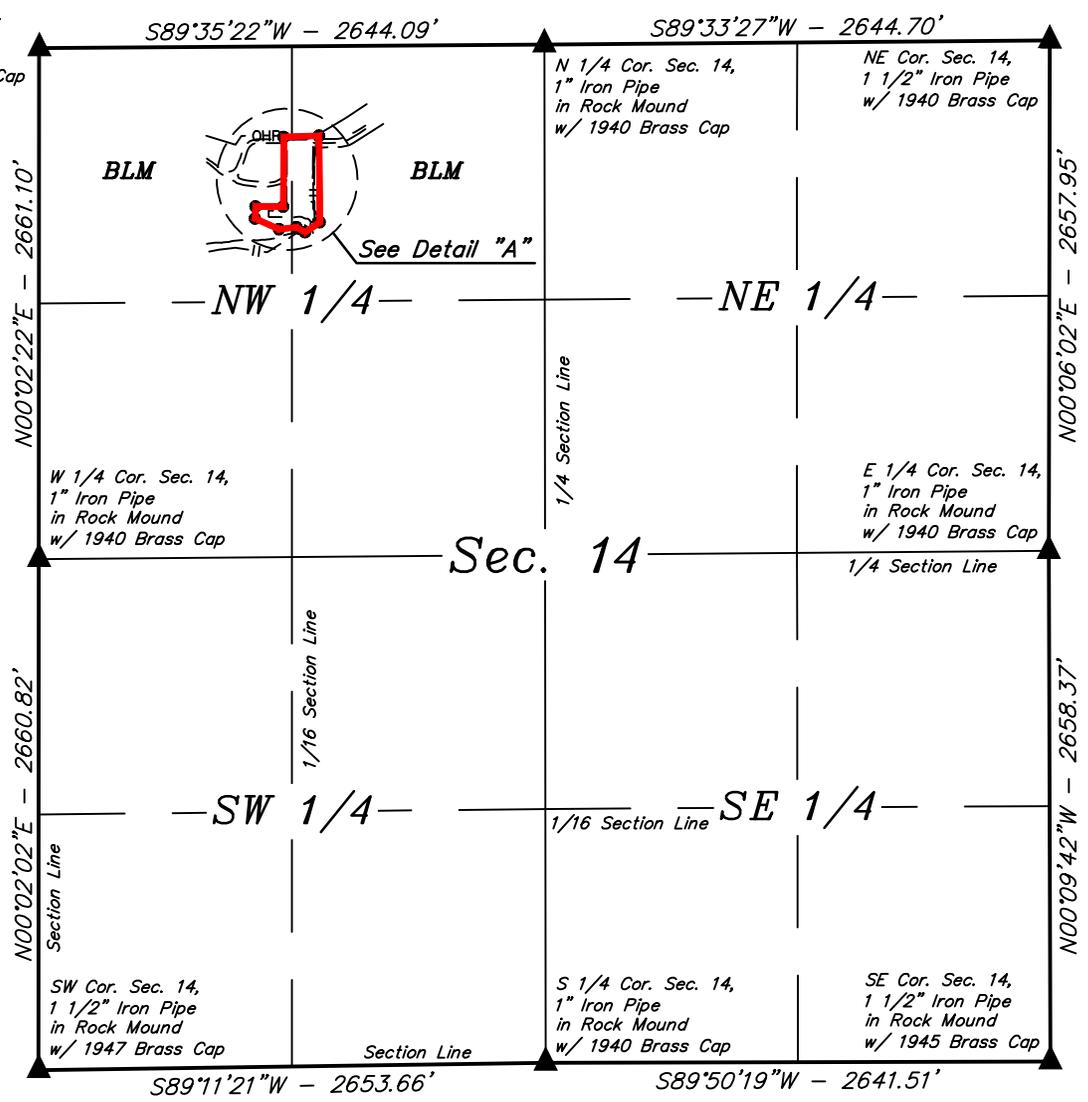
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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



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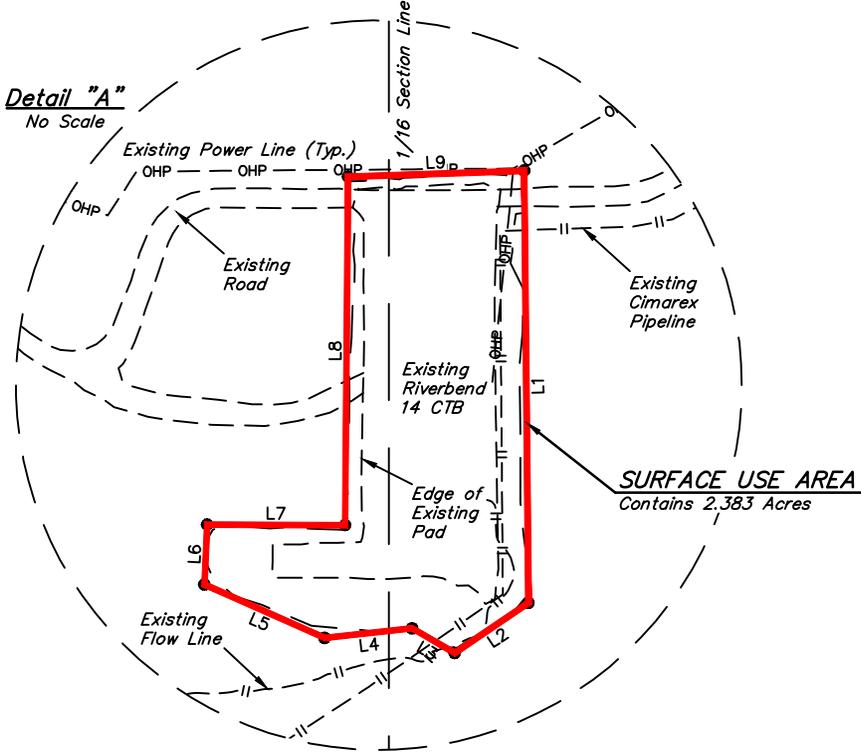
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'



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°08'24"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.

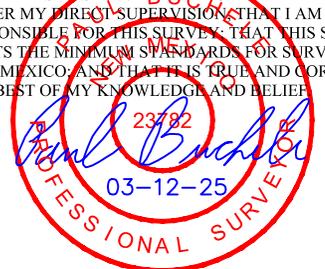
POINT OF BEGINNING BEARS S68°03'17"W 1272.60' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.



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.



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

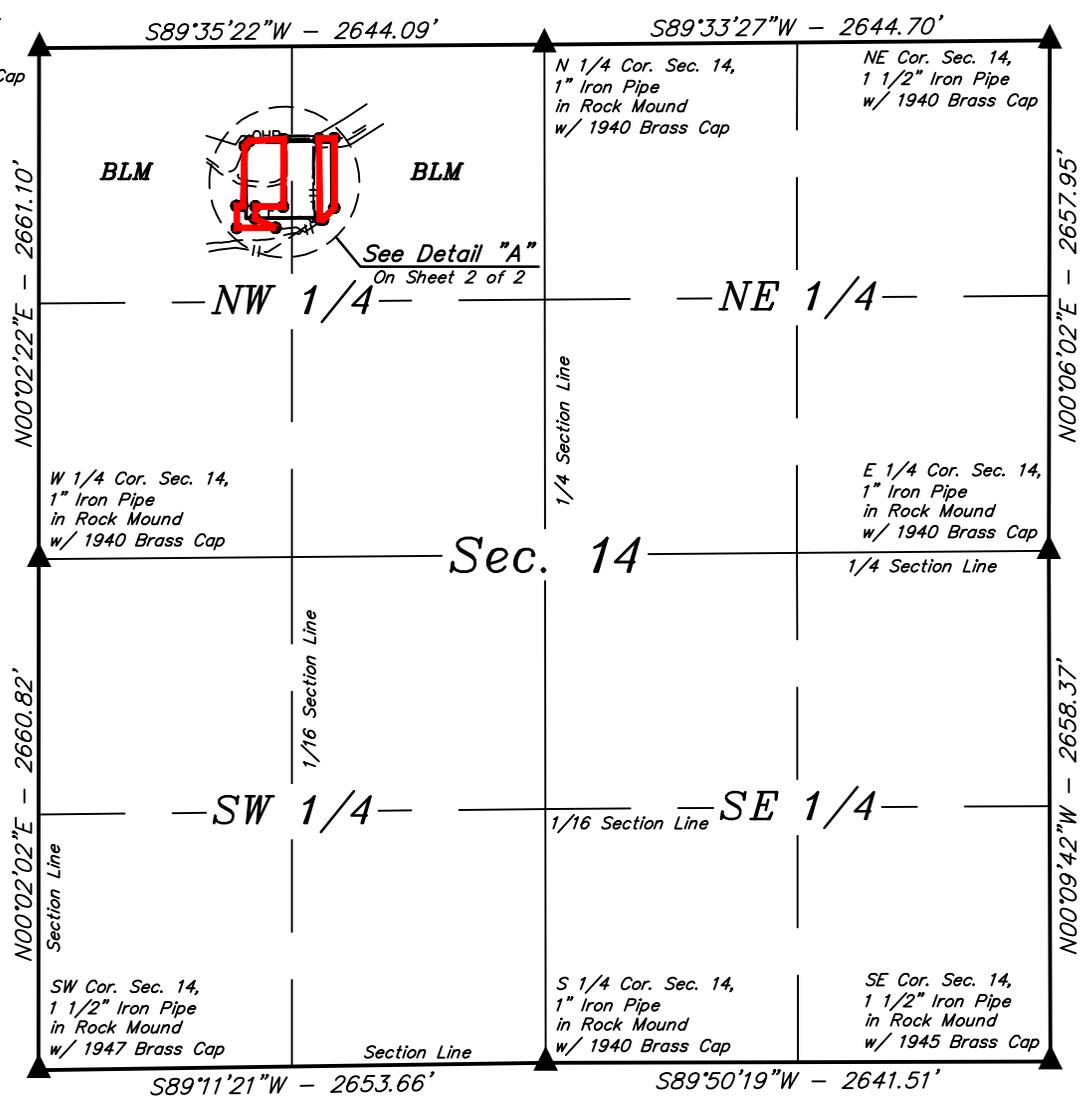
SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		

EXISTING SURFACE USE AREA EXHIBIT F



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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.

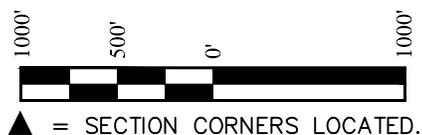
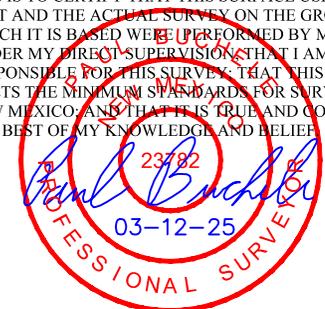
POINT OF BEGINNING "A" BEARS S64°40'24"E 1189.56' FROM THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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

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.



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-A1		

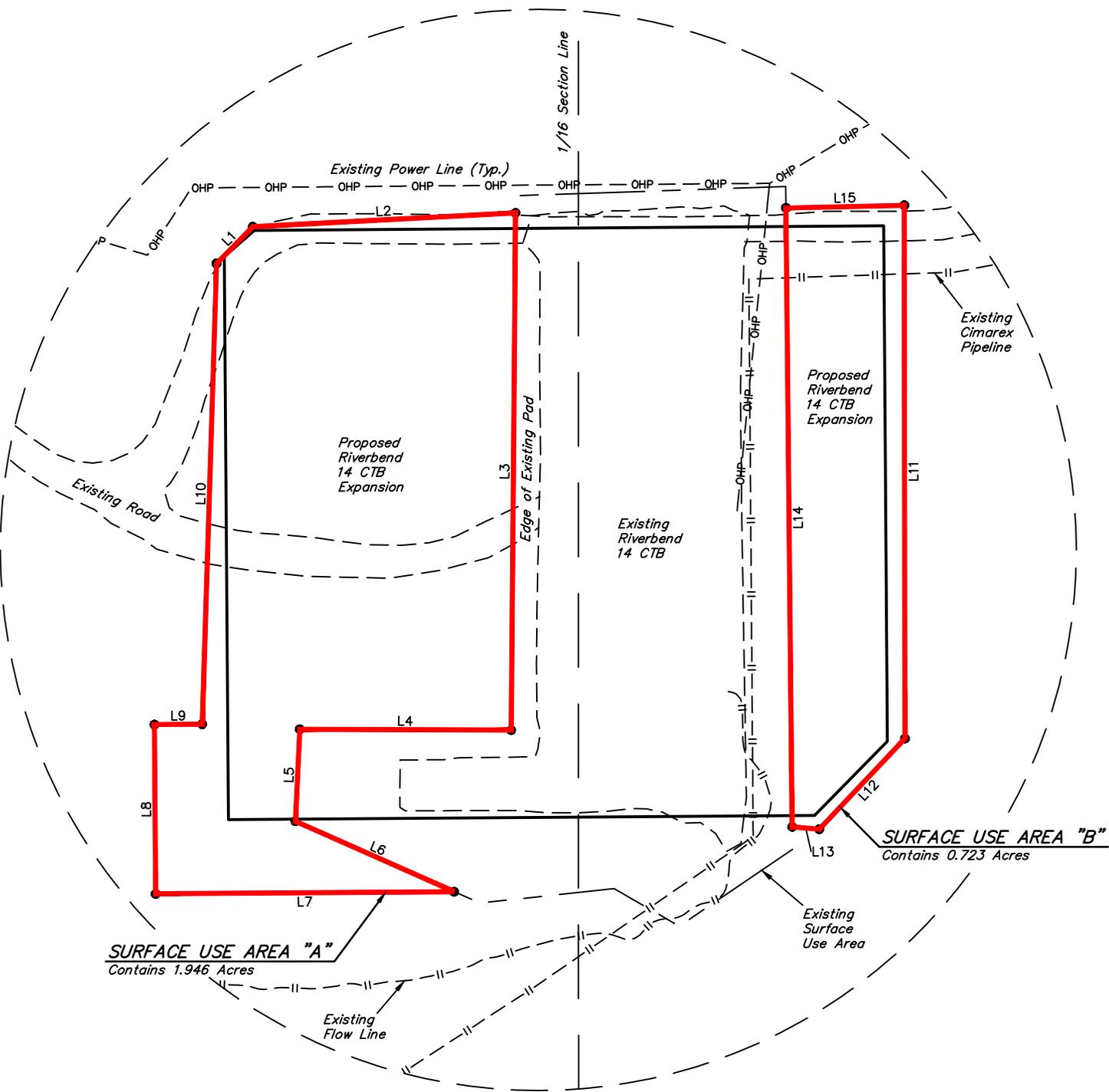
EXPANSION SURFACE USE AREA EXHIBIT F



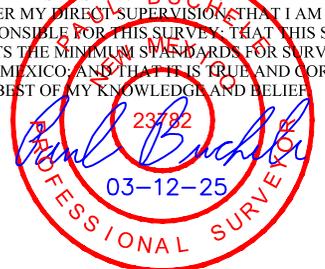
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



Detail "A"
No Scale



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.



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



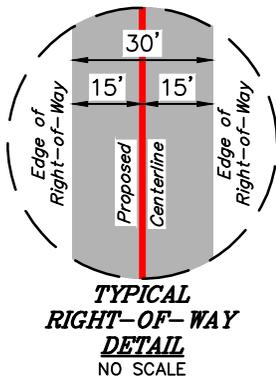
UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



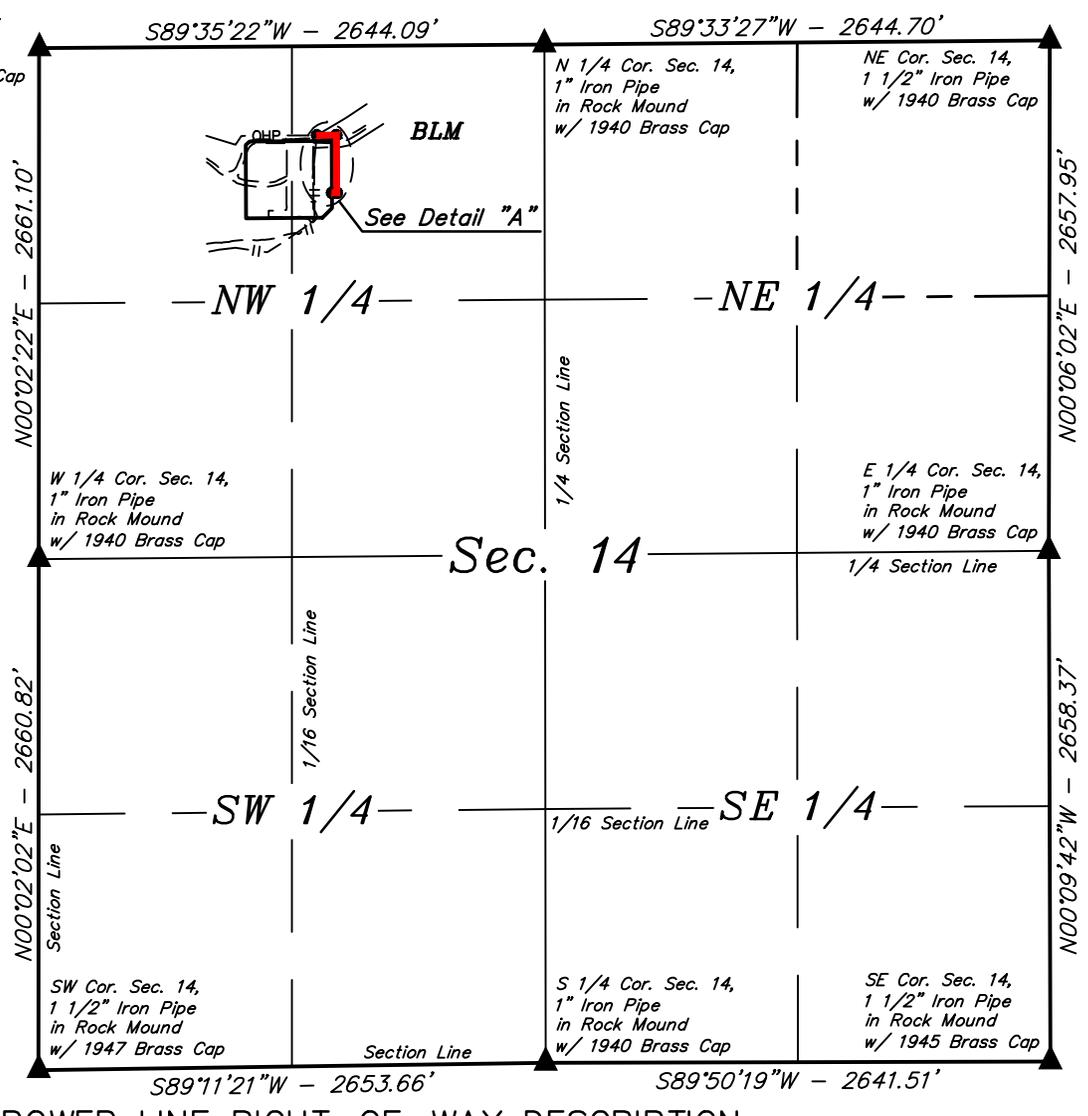
CIMAREX ENERGY CO.
RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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**

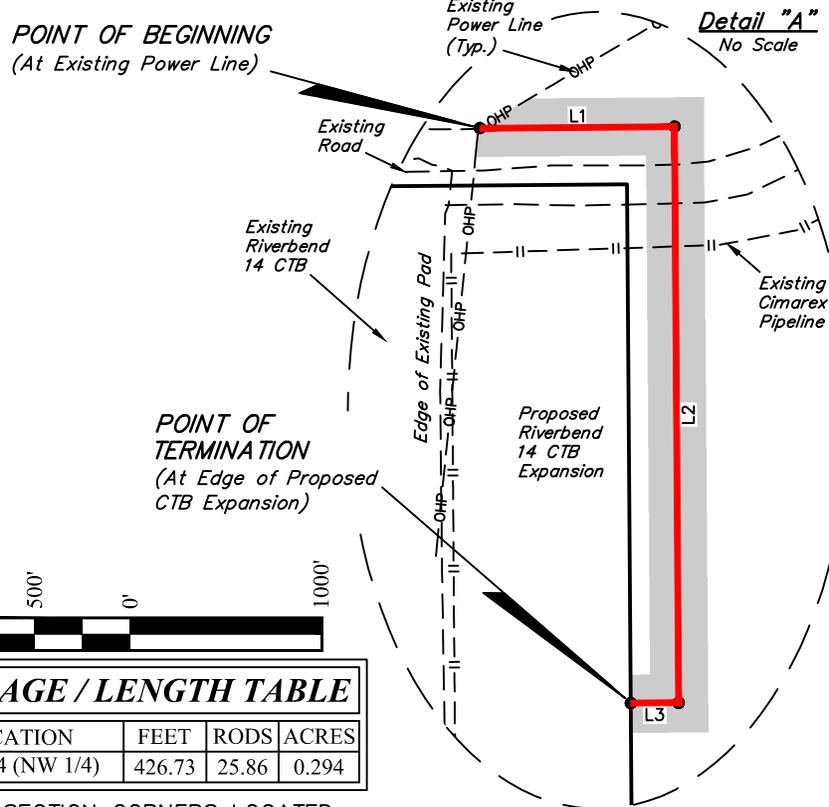


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°33'26"E	101.78'
L2	S00°24'38"E	299.95'
L3	S89°35'22"W	25.00'



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

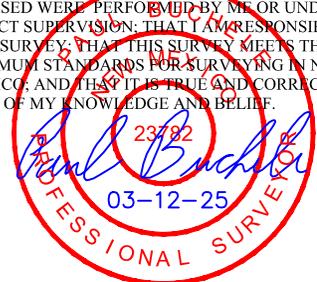
COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 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.

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.



ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	426.73	25.86	0.294

▲ = SECTION CORNERS LOCATED.

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



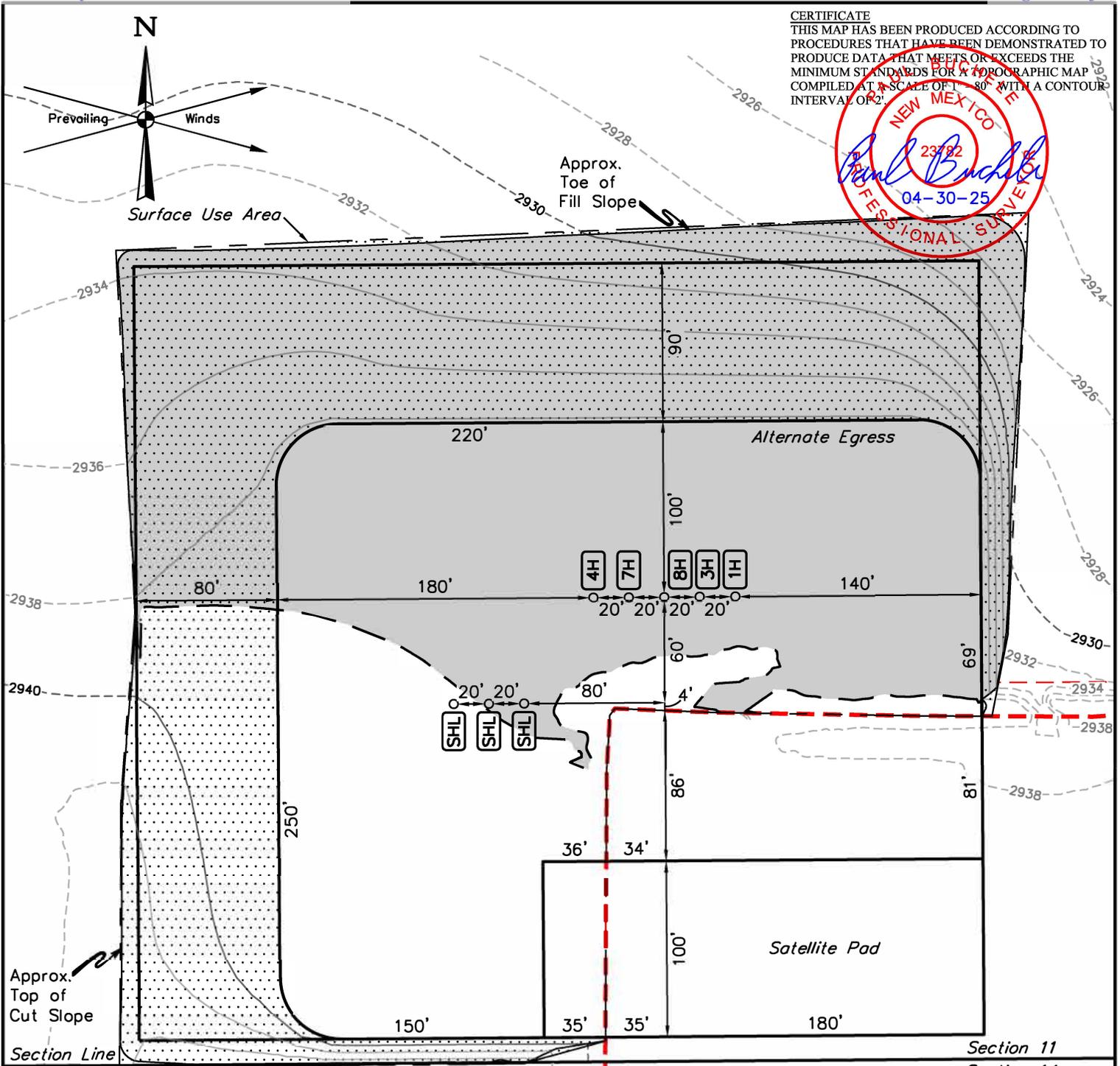
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



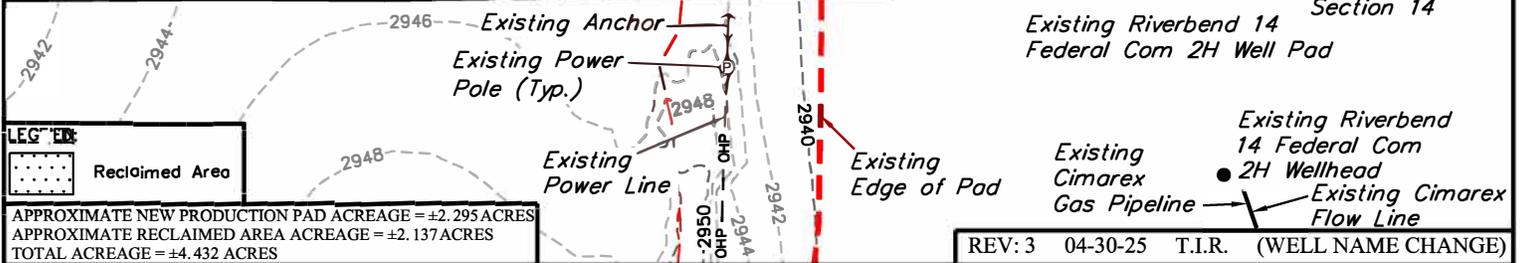
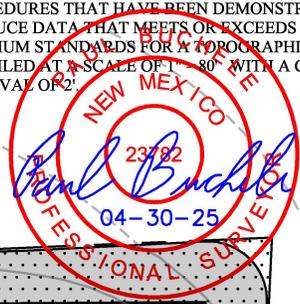
CIMAREX ENERGY CO.
RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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**



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'



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)

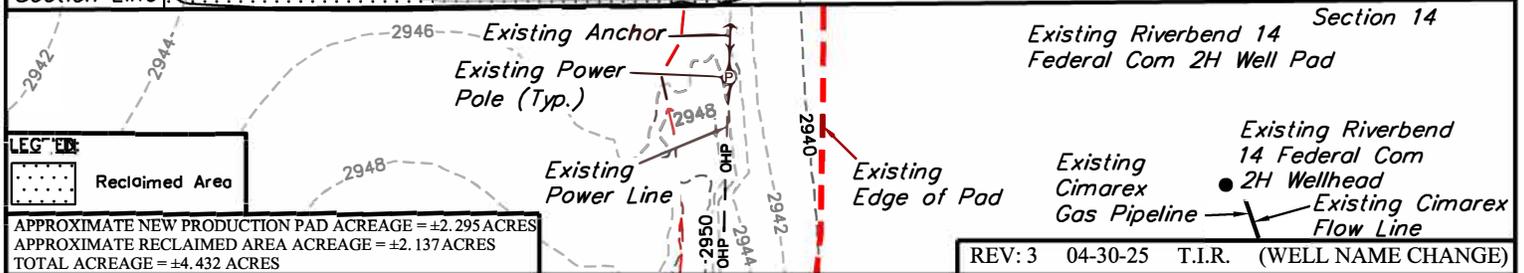
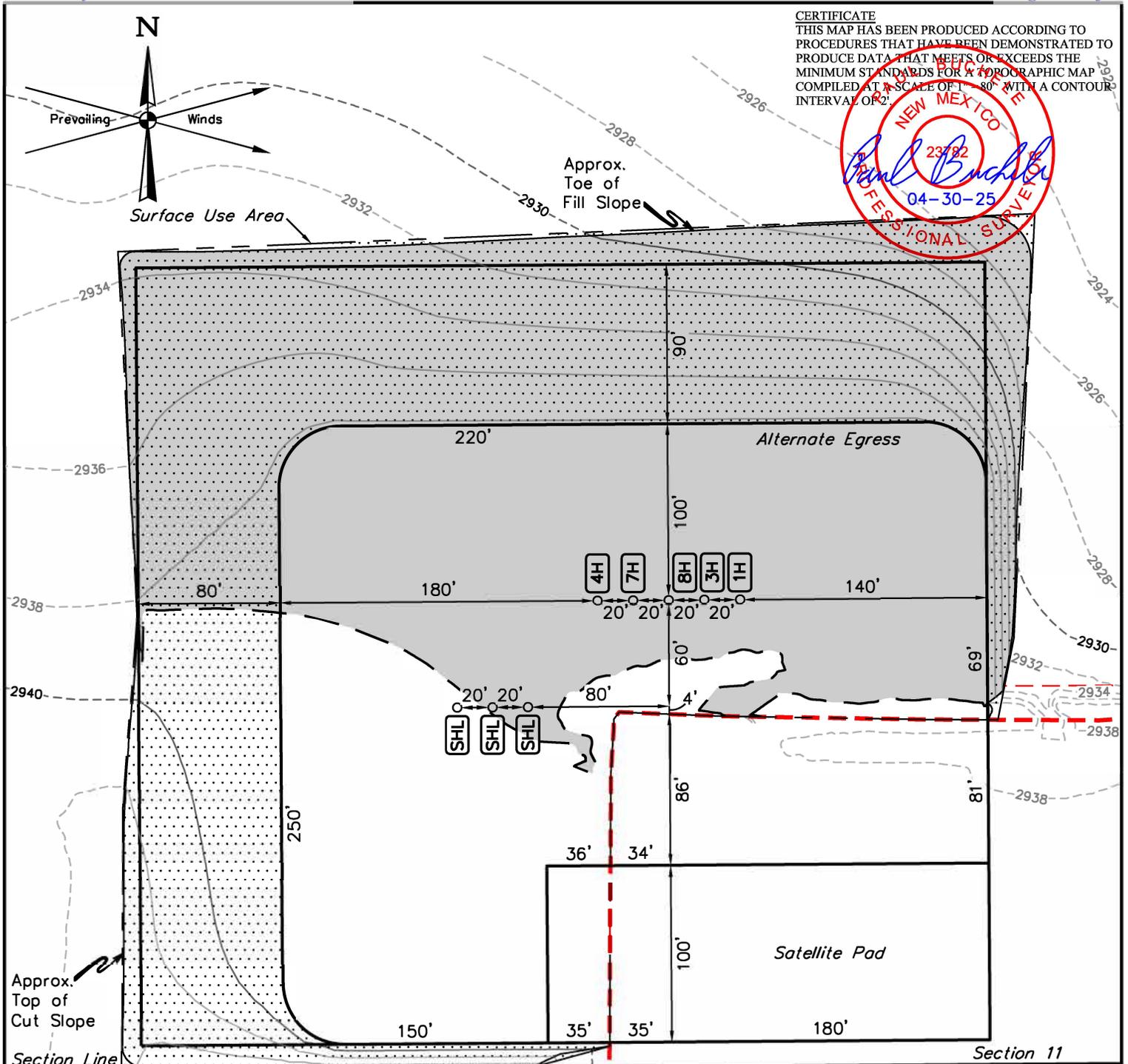
CIMAREX ENERGY CO.

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	



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



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

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

UINTAH
 ENGINEERING & LAND SURVEYING



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

PWD Data Report

12/19/2025

APD ID: 10400105781

Submission Date: 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

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: 7H

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:

Describe 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

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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: 7H

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



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

Bond Info Data

12/19/2025

APD ID: 10400105781

Submission Date: 07/30/2025

Highlighted data reflects the most recent changes
[Show Final Text](#)

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM

Well Number: 7H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

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:

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

Action 536494

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 536494
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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CONDITIONS

Action 536494

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 536494
	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.	12/19/2025
matthew.gomez	If cement does not circulate to surface on any string, a Cement Bond Log (CBL) is required for that string of casing, if a CBL is unable to indicate sufficient cement coverage due to a lighter cement, a USI log may also be required. If strata isolation is not achieved, remediation will be required before further operations may commence.	12/19/2025
matthew.gomez	All conducted logs must be submitted to the OCD.	12/19/2025
matthew.gomez	Cement must be in place for at least eight hours and achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	12/19/2025
matthew.gomez	Administrative order required for non-standard location prior to production.	12/19/2025
matthew.gomez	Surface casing shall be set a minimum of 70' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 70 ft. above the salt.	12/19/2025
matthew.gomez	For future reference, please remove all duplicate pages from APD prior to submittal to the OCD.	12/19/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	12/19/2025
matthew.gomez	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.	12/19/2025
matthew.gomez	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.	12/19/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/19/2025