AFMSS

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

Application for Permit to Drill

APD Package Report

Date Printed: 11/06/2025 09:34 AM

APD ID:	10400105574	Well Status:	AAPD
APD Received Date:	07/30/2025 09:30 AM	Well Name:	RIVERBEND 14 FEDERAL C
Operator:	CIMAREX ENERGY COMPANY OF	Well Number:	1H

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

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

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 9 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 2 file(s)
  -- Casing Design Assumptions and Worksheet(s): 1 file(s)
  -- Hydrogen sulfide drilling operations plan: 2 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 11 file(s)
  -- Other Facets: 6 file(s)
  -- Other Variances: 4 file(s)

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

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments

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-- None

Form 3160-3
(October 2024)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM13413

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.: RIVERBEND 14 FEDERAL COM 1H

2. Name of Operator: CIMAREX ENERGY COMPANY OF COLORADO

9. API Well No.:

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

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

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

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

At surface: SESW / 264 FSL / 1880 FWL / LAT 32.138126 / LONG -104.060432

At proposed prod. zone: NENE / 100 FNL / 335 FEL / LAT 32.137203 / LONG -104.0505

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

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

12. County or Parish: EDDY

13. State: NM

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

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 320.0

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

19. Proposed Depth: 7500 feet / 18462 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 2934 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: 10/31/2025

Title: Assistant Field Manager Lands & Minerals

Office: Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 10/31/2025

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INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

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

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

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

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

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

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

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

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

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

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

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

(Continued on page 3)

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Additional Operator Remarks

Location of Well

0. SHL: SESW / 264 FSL / 1880 FWL / TWSP: 25S / RANGE: 28E / SECTION: 11 / LAT: 32.138126 / LONG: -104.060432 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 1329 FNL / 332 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.133826 / LONG: -104.050494 (TVD: 7500 feet, MD: 14334 feet)

PPP: NWNE / 100 FNL / 1990 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.137161 / LONG: -104.055846 (TVD: 7500 feet, MD: 8126 feet)

BHL: NENE / 100 FNL / 335 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.137203 / LONG: -104.0505 (TVD: 7500 feet, MD: 18462 feet)

BLM Point of Contact

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

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Riverbend 14 FEDERAL COM 1H

APD - Geology COAs (Not in Potash or WIPP)

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

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

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

Be aware that:

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

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

PECOS DISTRICT

SURFACE USE

CONDITIONS OF APPROVAL

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

Wells:

RIVERBEND 14 FEDERAL COM 1H

RIVERBEND 14 FEDERAL COM 3H

RIVERBEND 14 FEDERAL COM 4H

RIVERBEND 14 FEDERAL COM 7H

RIVERBEND 14 FEDERAL COM 8H

 Approval Date: 10/31/2025

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1. GENERAL PROVISIONS

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

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

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

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

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

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

1.2. RANGELAND RESOURCES

1.2.1. **Cattleguards**

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

1.2.2. **Fence Requirement**

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

1.2.3. **Livestock Watering Requirement**

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

1.3. NOXIOUS WEEDS

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

1.3.1 African Rue (Peganum harmala)

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

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

1.4. LIGHT POLLUTION

1.4.1. **Downfacing**

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

1.4.2. **Shielding**

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

1.4.3. **Lighting Color**

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

2. SPECIAL REQUIREMENTS

WATERSHED

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

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

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

The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.

Any water erosion that may occur due to the construction of the well pad during the life of the well will be immediately corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location with wattles surrounding the stockpiled soil to prevent soil loss due to water/wind erosion. The wattles are to be maintained throughout the life of the project.

If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state-approved facility.

2.1.1. **Tank Battery**

Tank battery locations will be lined and bermed. A 20-mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hourproduction, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity). Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

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

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

2.1.3. **Electric Line(s)**

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

2.2. CAVE/KARST

2.2.1. **General Construction**

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- This is a sensitive area and all spills or leaks will be reported to the BLM immediately for their immediate and proper treatment, as defined in NTL 3A for Major Undesirable Events.

2.2.2. **Pad Construction**

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

2.2.3. **Buried Pipeline/Cable Construction**

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

2.2.4. **Powerline Construction**

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

2.2.5. **Surface Flowlines Installation**

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

2.2.6. **Production Mitigation**

- Tank battery locations and facilities will be bermed and lined with a 20-mil thick permanent liner that has a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hour production, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity).
- Implementation of a leak detection system to provide an early alert to operators when a leak has occurred.
- Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

2.2.7. **Residual and Cumulative Mitigation**

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

2.2.8. **Plugging and Abandonment Mitigation**

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

2.3 WILDLIFE

2.3.1. **Texas Hornshell Mussel**

Oil and Gas Zone D - CCA Boundary requirements.

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

2.4 SPECIAL STATUS PLANT SPECIES

2.5 VISUAL RESOURCE MANAGEMENT

2.5.1 **VRM IV**

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

3. CONSTRUCTION REQUIREMENTS

3.1 CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

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

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

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

3.3 CLOSED LOOP SYSTEM

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

3.4 FEDERAL MINERAL PIT

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

3.5 WELL PAD & SURFACING

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

3.6 EXCLOSURE FENCING (CELLARS & PITS)

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

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

3.7 ON LEASE ACCESS ROAD

3.7.1 **Road Width**

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

3.7.2 **Surfacing**

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

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

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

3.7.3 **Crowning**

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

3.7.4 **Ditching**

Ditching shall be required on both sides of the road.

3.7.5 **Turnouts**

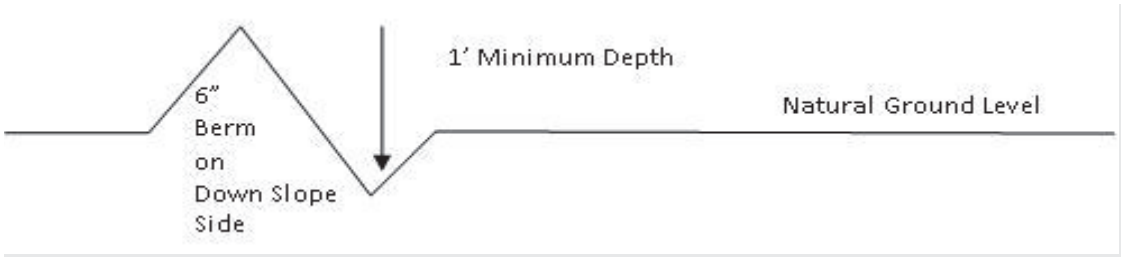
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 **Drainage**

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

3.7.7 **Public Access**

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

Construction Steps

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

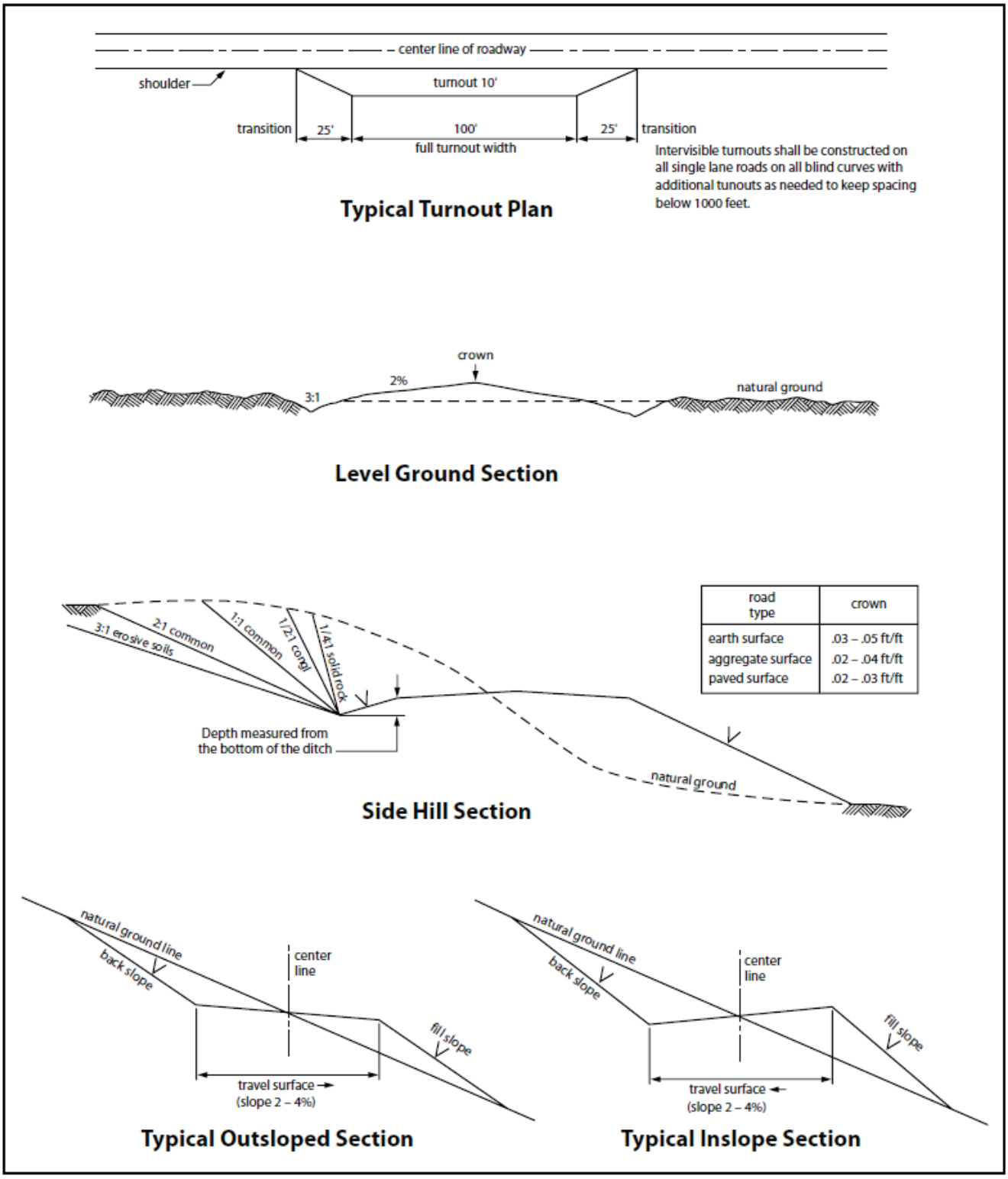


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

4. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

4.1 BURIED PIPELINES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

14. Special Stipulations:
Karst:

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

4.2 OVERHEAD ELECTRIC LINES

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

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

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

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

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

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

4.3 RANGLAND MITIGATION FOR PIPELINES

4.5.1 **Fence Requirement**

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

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

4.5.2 **Cattleguards**

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

4.5.3 **Livestock Watering Requirement**

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

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

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

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 **Placement of Production Facilities**

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

5.1.2 **Exclosure Netting (Open-top Tanks)**

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

5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

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

5.1.4. Open-Vent Exhaust Stack Exclosures

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

5.1.5. Containment Structures

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

6. RECLAMATION

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

6.1 ROAD AND SITE RECLAMATION

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

6.2 EROSION CONTROL

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

6.3 INTERIM RECLAMATION

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

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

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

6.4 FINAL ABANDONMENT & RECLAMATION

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

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

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

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

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

6.5 SEEDING TECHNIQUES

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

6.6 SOIL SPECIFIC SEED MIXTURE

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

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 3, for Shallow Sites

FOR CTB RECLAMATION ONLY

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

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

*Pounds of pure live seed:

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

Mixture 4, for Gypsum Sites

FOR WELLPAD RECLAMATION ONLY

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

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

~DWS: DeWinged Seed

*Pounds of pure live seed:

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

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

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

WELL NAME & NO.:	**Riverbend 14 Federal Com 1H**
ATS/API ID:	**ATS-25-21**
APD ID:	**10400105574**
Sundry ID:	**N/a**

WELL NAME & NO.:	**Riverbend 14 Federal Com 3H**
ATS/API ID:	**ATS-25-21**
APD ID:	**10400105707**
Sundry ID:	**N/a**

WELL NAME & NO.:	**Riverbend 14 Federal Com 4H**
ATS/API ID:	**ATS-25-21**
APD ID:	**10400105780**
Sundry ID:	**N/a**

COA

 Approval Date: 10/31/2025

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

 Approval Date: 10/31/2025

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **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.

GENERAL REQUIREMENTS

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

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

☑ Eddy County
EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

    b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been

done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

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

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

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

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

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Long Vo (LVO) 10/30/2025

 Approval Date: 10/31/2025

AFMSS

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

Operator Certification Data Report

11/06/2025

Operator

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

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

Title: Regulatory Analyst

Street Address: 6001 DEAUVILLE BLVD SUITE 300N

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

Phone: (432)620-1644

Email address: CRYSTAL.DENSON@COTERRA.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

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

Application Data
11/06/2025

APD ID: 10400105574 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400105574 **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:** 1H **Well API Number:**

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

Released to Imaging: 12/5/2025 11:04:51 AM

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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_1H_20250902082234.pdf

RIVERBEND_14_FEDERAL_E2W2_05_06_25__C_102_WELL_1H_20250912072436.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	1880	FWL	25S	28E	11	Aliquot SESW	32.138126	-104.060432	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 13413	2934			N
KOP Leg #1	100	FNL	1990	FEL	25S	28E	14	Aliquot NWNE	32.137161	-104.055846	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 13413	-4566	8126	7500	Y

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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	1990	FEL	25S	28E	14	Aliquot NWNE	32.137161	-104.055846	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 13413	-4566	8126	7500	Y
PPP Leg #1-2	1329	FNL	332	FEL	25S	28E	14	Aliquot SENE	32.133826	-104.050494	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-4566	14334	7500	Y
EXIT Leg #1	100	FNL	335	FEL	25S	28E	14	Aliquot NENE	32.137203	-104.0505	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-4566	18462	7500	Y
BHL Leg #1	100	FNL	335	FEL	25S	28E	14	Aliquot NENE	32.137203	-104.0505	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-4566	18462	7500	Y

CONFIDENTIAL

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-57514	53610	San Lorenzo; Bone Spring, North

Property Code	Property Name	Well Number
40059	RIVERBEND 14 FEDERAL COM	1H

OGRID No.	Operator Name	Ground Level Elevation
162683	CIMAREX ENERGY CO. OF COLORADO	2,934.5'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal Mineral Owner: ☐ State ☑ Fee ☐ Tribal ☑ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
N	11	25S	28E		264 SOUTH	1,880 WEST	32.138126°	-104.060432°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	335 EAST	32.137203°	-104.050500°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320				

Order Numbers. Well setbacks are under Common Ownership: ☐Yes ☐No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,990 EAST	32.137161°	-104.055846°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,990 EAST	32.137161°	-104.055846°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	335 EAST	32.137203°	-104.050500°	EDDY

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

OPERATOR CERTIFICATIONS

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

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

Crystal Denson 6/11/2025

Signature Date

Crystal Denson

Printed Name

crystal.denson@coterra.com

Email Address

SURVEYOR CERTIFICATIONS

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

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

Signature and Seal of Professional Surveyor

23782 August 7, 2024

Certificate Number Date of Survey

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

Released to Imaging: 12/5/2025 11:04:51 AM

Property Name	Well Number	Drawn By	Revised By
RIVERBEND 14 FEDERAL COM	1H	L.T.T. 11-12-24	REV: 2 T.I.R. 04-30-25 (UPDATE WELLBORE)

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'17.25" (32.138126°)
LONGITUDE = -104°03'37.55" (-104.060432°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'16.81" (32.138003°)
LONGITUDE = -104°03'35.79" (-104.059943°)
STATE PLANE NAD 83 (N.M. EAST)
N: 414092.97' E: 625806.83'
STATE PLANE NAD 27 (N.M. EAST)
N: 414034.88' E: 584622.64'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°08'13.78" (32.137161°)
LONGITUDE = -104°03'21.05" (-104.055846°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°08'13.34" (32.137038°)
LONGITUDE = -104°03'19.29" (-104.055357°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413745.50' E: 627227.13'
STATE PLANE NAD 27 (N.M. EAST)
N: 413687.40' E: 586042.89'

NAD 83 (KOP 2)
LATITUDE = 32°07'31.44" (32.125401°)
LONGITUDE = -104°03'20.96" (-104.055822°)
NAD 27 (KOP 2)
LATITUDE = 32°07'31.00" (32.125278°)
LONGITUDE = -104°03'19.20" (-104.055334°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409467.44' E: 627245.43'
STATE PLANE NAD 27 (N.M. EAST)
N: 409409.42' E: 586061.10'

NAD 83 (NPZ 1)
LATITUDE = 32°07'24.90" (32.123583°)
LONGITUDE = -104°03'17.06" (-104.054739°)
NAD 27 (NPZ 1)
LATITUDE = 32°07'24.45" (32.123459°)
LONGITUDE = -104°03'15.30" (-104.054251°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408806.85' E: 627582.42'
STATE PLANE NAD 27 (N.M. EAST)
N: 408748.84' E: 586398.07'

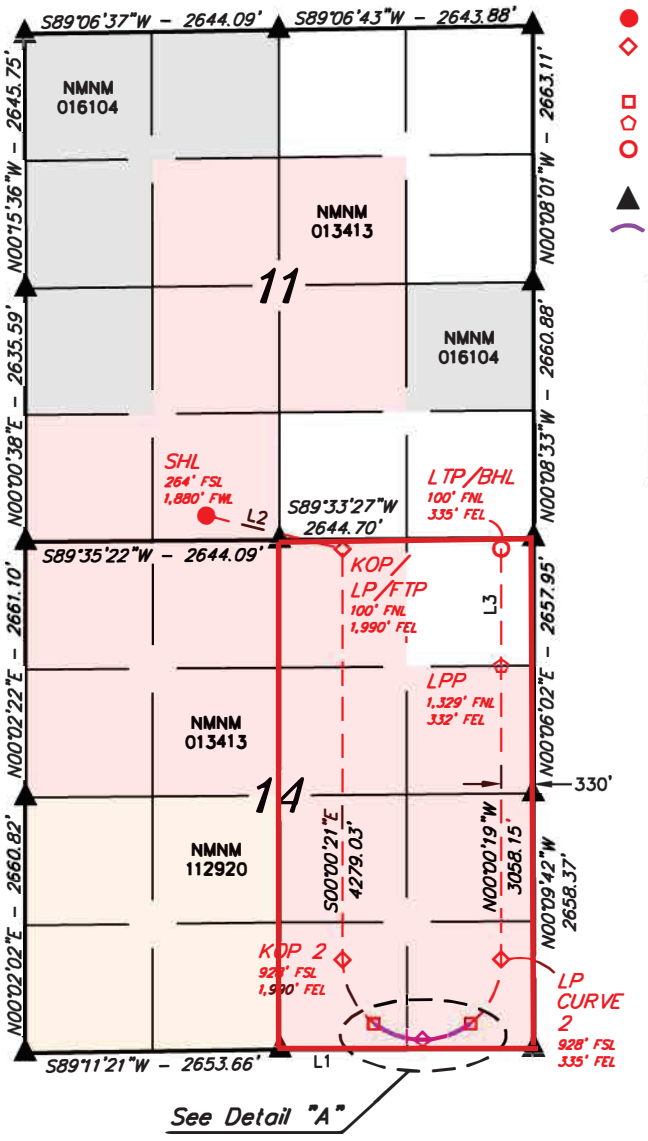
NAD 83 (PEAK CURVE 2)
LATITUDE = 32°07'23.29" (32.123137°)
LONGITUDE = -104°03'11.30" (-104.053139°)
NAD 27 (PEAK CURVE 2)
LATITUDE = 32°07'22.85" (32.123013°)
LONGITUDE = -104°03'09.54" (-104.052651°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408645.92' E: 628078.25'
STATE PLANE NAD 27 (N.M. EAST)
N: 408587.91' E: 586893.88'

NAD 83 (NPZ 2)
LATITUDE = 32°07'24.94" (32.123594°)
LONGITUDE = -104°03'05.55" (-104.051542°)
NAD 27 (NPZ 2)
LATITUDE = 32°07'24.50" (32.123471°)
LONGITUDE = -104°03'03.79" (-104.051054°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408813.77' E: 628572.32'
STATE PLANE NAD 27 (N.M. EAST)
N: 408755.75' E: 587387.94'

NAD 83 (LP CURVE 2)
LATITUDE = 32°07'31.51" (32.125421°)
LONGITUDE = -104°03'01.72" (-104.050477°)
NAD 27 (LP CURVE 2)
LATITUDE = 32°07'31.07" (32.125298°)
LONGITUDE = -104°02'59.96" (-104.049989°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409479.01' E: 628900.03'
STATE PLANE NAD 27 (N.M. EAST)
N: 409420.97' E: 587715.66'

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" (-104.050005°)
STATE PLANE NAD 83 (N.M. EAST)
N: 412536.47' E: 628886.97'
STATE PLANE NAD 27 (N.M. EAST)
N: 412478.37' E: 587702.67'

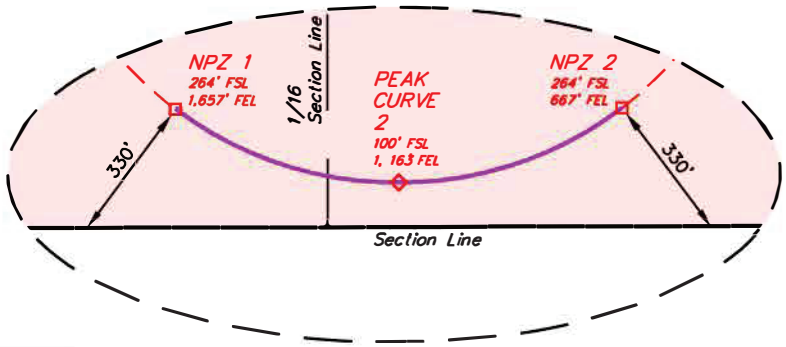
NAD 83 (LTP/BHL)
LATITUDE = 32°08'13.93" (32.137203°)
LONGITUDE = -104°03'01.80" (-104.050500°)
NAD 27 (LTP/BHL)
LATITUDE = 32°08'13.49" (32.137080°)
LONGITUDE = -104°03'00.04" (-104.050012°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413765.19' E: 628881.73'
STATE PLANE NAD 27 (N.M. EAST)
N: 413707.07' E: 587697.45'



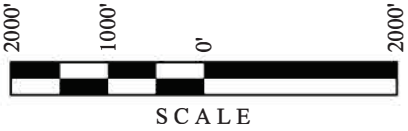
= SURFACE HOLE LOCATION
= KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
= NPZ POINT
= LEASE PENETRATION POINT
= LAST TAKE POINT/BOTTOM HOLE LOCATION
= SECTION CORNER LOCATED
= NON-PERFORATION ZONE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°50'19"W	2641.51'
L2	S76°00'49"E	1462.50'
L3	N00°00'19"W	1229.00'

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



Detail "A"
No Scale



Sheet 2 of 2

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

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

WELL LOCATION INFORMATION

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

Property Code	Property Name	Well Number
	RIVERBEND 14 FEDERAL COM	1H

OGRID No.	Operator Name	Ground Level Elevation
162683	CIMAREX ENERGY CO. OF COLORADO	2,934.5'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal Mineral Owner: ☐ State ☑ Fee ☐ Tribal ☑ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
N	11	25S	28E		264 SOUTH	1,880 WEST	32.138126°	-104.060432°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	335 EAST	32.137203°	-104.050500°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320				

Order Numbers. Well setbacks are under Common Ownership: ☐Yes ☐No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,990 EAST	32.137161°	-104.055846°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,990 EAST	32.137161°	-104.055846°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	335 EAST	32.137203°	-104.050500°	EDDY

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

OPERATOR CERTIFICATIONS

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

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

Crystal Denson 6/11/2025

Signature Date

Crystal Denson

Printed Name

crystal.denson@coterra.com

Email Address

SURVEYOR CERTIFICATIONS

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

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

Signature and Seal of Professional Surveyor

23782 August 7, 2024

Certificate Number Date of Survey

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

Property Name	Well Number	Drawn By	Revised By
RIVERBEND 14 FEDERAL COM	1H	L.T.T. 11-12-24	REV: 2 T.I.R. 04-30-25 (UPDATE WELLBORE)

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'17.25" (32.138126°)
LONGITUDE = -104°03'37.55" (-104.060432°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'16.81" (32.138003°)
LONGITUDE = -104°03'35.79" (-104.059943°)
STATE PLANE NAD 83 (N.M. EAST)
N: 414092.97' E: 625806.83'
STATE PLANE NAD 27 (N.M. EAST)
N: 414034.88' E: 584622.64'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°08'13.78" (32.137161°)
LONGITUDE = -104°03'21.05" (-104.055846°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°08'13.34" (32.137038°)
LONGITUDE = -104°03'19.29" (-104.055357°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413745.50' E: 627227.13'
STATE PLANE NAD 27 (N.M. EAST)
N: 413687.40' E: 586042.89'

NAD 83 (KOP 2)
LATITUDE = 32°07'31.44" (32.125401°)
LONGITUDE = -104°03'20.96" (-104.055822°)
NAD 27 (KOP 2)
LATITUDE = 32°07'31.00" (32.125278°)
LONGITUDE = -104°03'19.20" (-104.055334°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409467.44' E: 627245.43'
STATE PLANE NAD 27 (N.M. EAST)
N: 409409.42' E: 586061.10'

NAD 83 (NPZ 1)
LATITUDE = 32°07'24.90" (32.123583°)
LONGITUDE = -104°03'17.06" (-104.054739°)
NAD 27 (NPZ 1)
LATITUDE = 32°07'24.45" (32.123459°)
LONGITUDE = -104°03'15.30" (-104.054251°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408806.85' E: 627582.42'
STATE PLANE NAD 27 (N.M. EAST)
N: 408748.84' E: 586398.07'

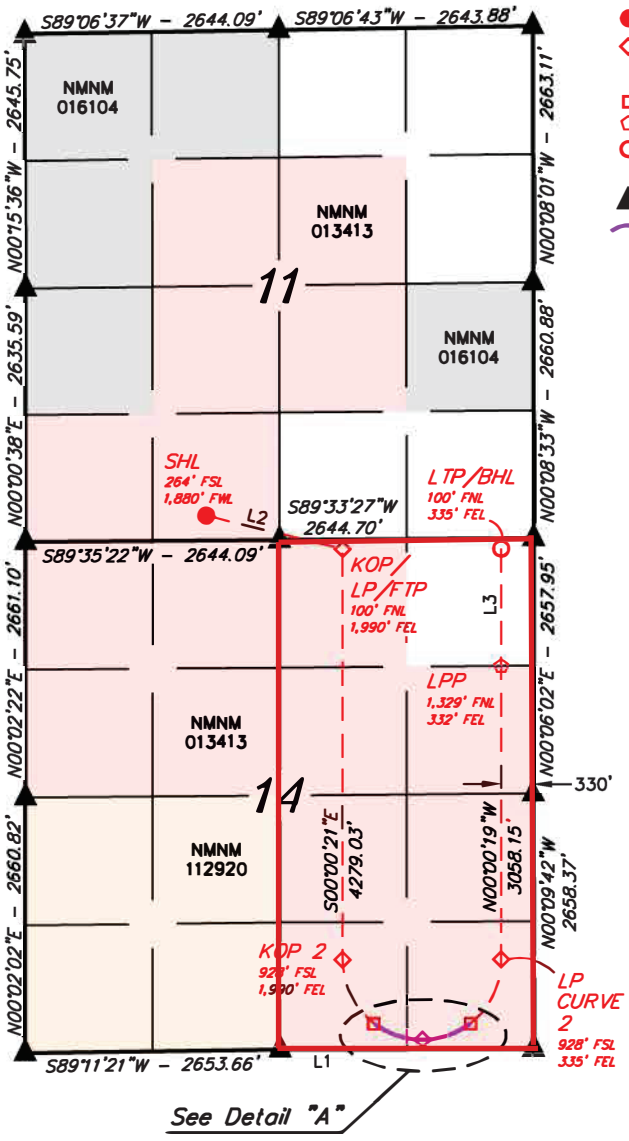
NAD 83 (PEAK CURVE 2)
LATITUDE = 32°07'23.29" (32.123137°)
LONGITUDE = -104°03'11.30" (-104.053139°)
NAD 27 (PEAK CURVE 2)
LATITUDE = 32°07'22.85" (32.123013°)
LONGITUDE = -104°03'09.54" (-104.052651°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408645.92' E: 628078.25'
STATE PLANE NAD 27 (N.M. EAST)
N: 408587.91' E: 586893.88'

NAD 83 (NPZ 2)
LATITUDE = 32°07'24.94" (32.123594°)
LONGITUDE = -104°03'05.55" (-104.051542°)
NAD 27 (NPZ 2)
LATITUDE = 32°07'24.50" (32.123471°)
LONGITUDE = -104°03'03.79" (-104.051054°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408813.77' E: 628572.32'
STATE PLANE NAD 27 (N.M. EAST)
N: 408755.75' E: 587387.94'

NAD 83 (LP CURVE 2)
LATITUDE = 32°07'31.51" (32.125421°)
LONGITUDE = -104°03'01.72" (-104.050477°)
NAD 27 (LP CURVE 2)
LATITUDE = 32°07'31.07" (32.125298°)
LONGITUDE = -104°02'59.96" (-104.049989°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409479.01' E: 628900.03'
STATE PLANE NAD 27 (N.M. EAST)
N: 409420.97' E: 587715.66'

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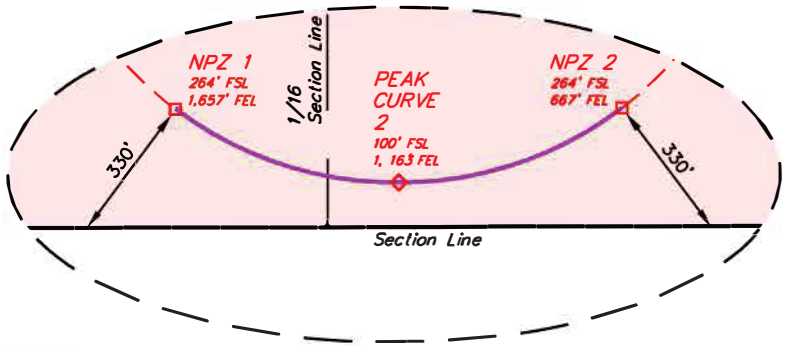
NAD 83 (LTP/BHL)
LATITUDE = 32°08'13.93" (32.137203°)
LONGITUDE = -104°03'01.80" (-104.050500°)
NAD 27 (LTP/BHL)
LATITUDE = 32°08'13.49" (32.137080°)
LONGITUDE = -104°03'00.04" (-104.050012°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413765.19' E: 628881.73'
STATE PLANE NAD 27 (N.M. EAST)
N: 413707.07' E: 587697.45'



= 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'
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L3	N00°00'19"W	1229.00'

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



Detail "A"
No Scale



Sheet 2 of 2

AFMSS

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

Drilling Plan Data Report
11/06/2025

APD ID: 10400105574 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16705552	RUSTLER	0	1091	1091	ANHYDRITE	USEABLE WATER	N
16705553	TOP SALT	-1570	1570	1570	ANHYDRITE, SALT	NONE	N
16705554	LAMAR	-2362	2362	2362	ANHYDRITE, SALT	NONE	N
16705555	BELL CANYON	-2550	2550	2550	SANDSTONE	NONE	N
16705556	CHERRY CANYON	-3425	3425	3425	SANDSTONE	NONE	N
16705557	BRUSHY CANYON	-4727	4727	4727	SANDSTONE	NATURAL GAS, OIL	N
16705558	LOWER BRUSHY CANYON 8A	-5670	5670	5670	SANDSTONE	NATURAL GAS, OIL	N
16705559	BONE SPRING LIME	-6334	6334	6334	LIMESTONE	NATURAL GAS, OIL	N
16705560	BONE SPRING 1ST	-7260	7260	7260	SANDSTONE	NATURAL GAS, OIL	N
16705561	BONE SPRING 1ST	-7500	7500	7500	SANDSTONE	NATURAL GAS, OIL	Y
16705563		0					N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M **Rating Depth:** 18462

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: 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.

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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_20250725083203.pdf

10M_BOPE_BLM_SUBMISSION_REV.0_20250725083245.pdf

COTERRA_10K_PROD_TREE_20250725083246.pdf

NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250730070323.pdf

NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250912154359.pdf

10M_BOPE_BLM_SUBMISSION_REV.0_20250912154359.pdf

CHOKE_HOSE_M15486_20250912154400.pdf

COTERRA_10K_PROD_TREE_20250912154400.pdf

COTERRA_10M_MBU_3T_CFL_13.38_X_9.58_X_5.5_HBE1215DQ_20250930161317.pdf

BOP Diagram Attachment:

10M_BOP_DIAGRAM_20250725083114.pdf

10M_BOP_DIAGRAM_20250912154409.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1050	0	1050	2934	1884	1050	OTHER - H-40/J-55 Hybrid	48	ST&C	1.63	3.8	BUOY	6.39	BUOY	6.39
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2340	0	2340	2935	594	2340	J-55	36	LT&C	1.61	2.81	BUOY	5.38	BUOY	5.38
3	PRODUCTION	8.75	5.5	NEW	API	N	7115	18461	7115	7500	-4181	-4566	11346	P-110	18	BUTT	3	3.34	BUOY	83.25	BUOY	83.25

Casing Attachments

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

1H_Casing_Assumptions_20250930161554.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	750	509	1.72	13.5	876	45	Class C	Bentonite
SURFACE	Tail		750	1050	136	1.34	14.8	183	45	Class C	LCM
INTERMEDIATE	Lead		0	2040	416	1.88	12.9	783	58	35:65 (Pos:C)	Salt, Bentonite
INTERMEDIATE	Tail		2040	2340	137	1.34	14.8	184	58	Class C	LCM
PRODUCTION	Lead		2140	17461	513	3.64	10.3	1868	25	Tuned Light	LCM
PRODUCTION	Tail		17461	18461	3307	1.3	14.2	4299	25	50:50 (Poz:H)	Salt, Bentonite, Fluid Loss, Dispersant, SMS

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1050	SPUD MUD	7.83	8.33							
1050	2340	OTHER : Brine Water	9.8	10.3							

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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
2340	18461	OIL-BASED MUD	9	9.5							

Section 6 - Test, Logging, Coring

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

No DST Planned. Logs run on the 4H.

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

DIRECTIONAL SURVEY,

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3705 **Anticipated Surface Pressure:** 2055

Anticipated Bottom Hole Temperature(F): 148

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_PLAN_REV.0_20250728082158.pdf
H2S_PLAN_REV.0_20250912072915.pdf

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

WELL_CONTROL_PLAN_REV.0_20250728083336.pdf
Riverbend_14_Federal_Com_1H___Plan_1_20250729085200.pdf
Riverbend_14_Federal_Com_1H___Plan_1_Plot_20250729085200.pdf
Riverbend_14_Federal_Com_1H___Plan_1_AC_20250729085201.pdf
Coterra_Energy___Riverbend_14_Federal_Com_1H_Plan_1_20250730073748.pdf
WELL_CONTROL_PLAN_REV.0_20251021164239.pdf
Riverbend_14_Federal_Com_1H___Plan_1_20251021164328.pdf
Riverbend_14_Federal_Com_1H___Plan_1_Plot_20251021164329.pdf
Riverbend_14_Federal_Com_1H___Plan_1_AC_20251021164329.pdf
Coterra_Energy___Riverbend_14_Federal_Com_1H_Plan_1_20251021165604.pdf
1H_Drilling_Plan_New_Mexico_20251021170839.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Riverbend_14_1H_Natural_Gas_Plan_Cimarex_20250707111601.pdf
RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250707111622.pdf
RIVERBEND_14_FEDERAL_E2W2_rig_layout_plat_20250730073803.pdf
Riverbend_14_1H_Natural_Gas_Plan_Cimarex_20250912073029.pdf
RIVERBEND_14_FEDERAL_E2W2_rig_layout_plat_20250912073053.pdf
RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250912073053.pdf

Other Variance request(s)?: Y

Other Variance attachment:

CHOKE_HOSE_M15486_20250728090024.pdf
NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250728090032.pdf
NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250912073115.pdf
CHOKE_HOSE_M15486_20250912073115.pdf

CONFIDENTIAL

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

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

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

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

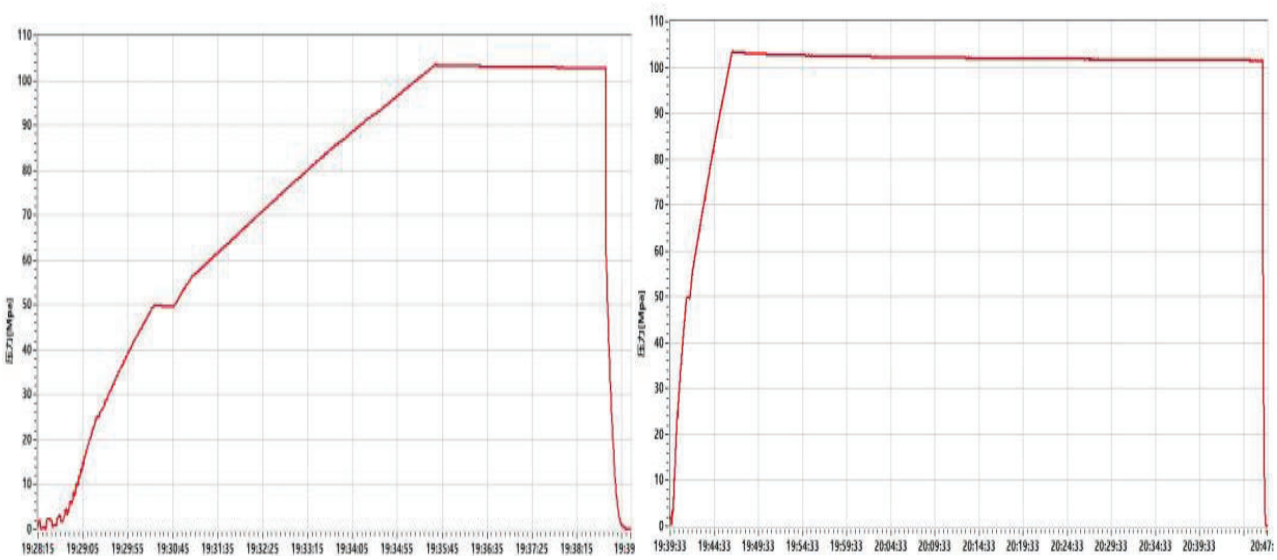
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

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

Graph of pressure testing：



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

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

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

Serial Number：VTC-7660257

customer number：PO890145-001

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

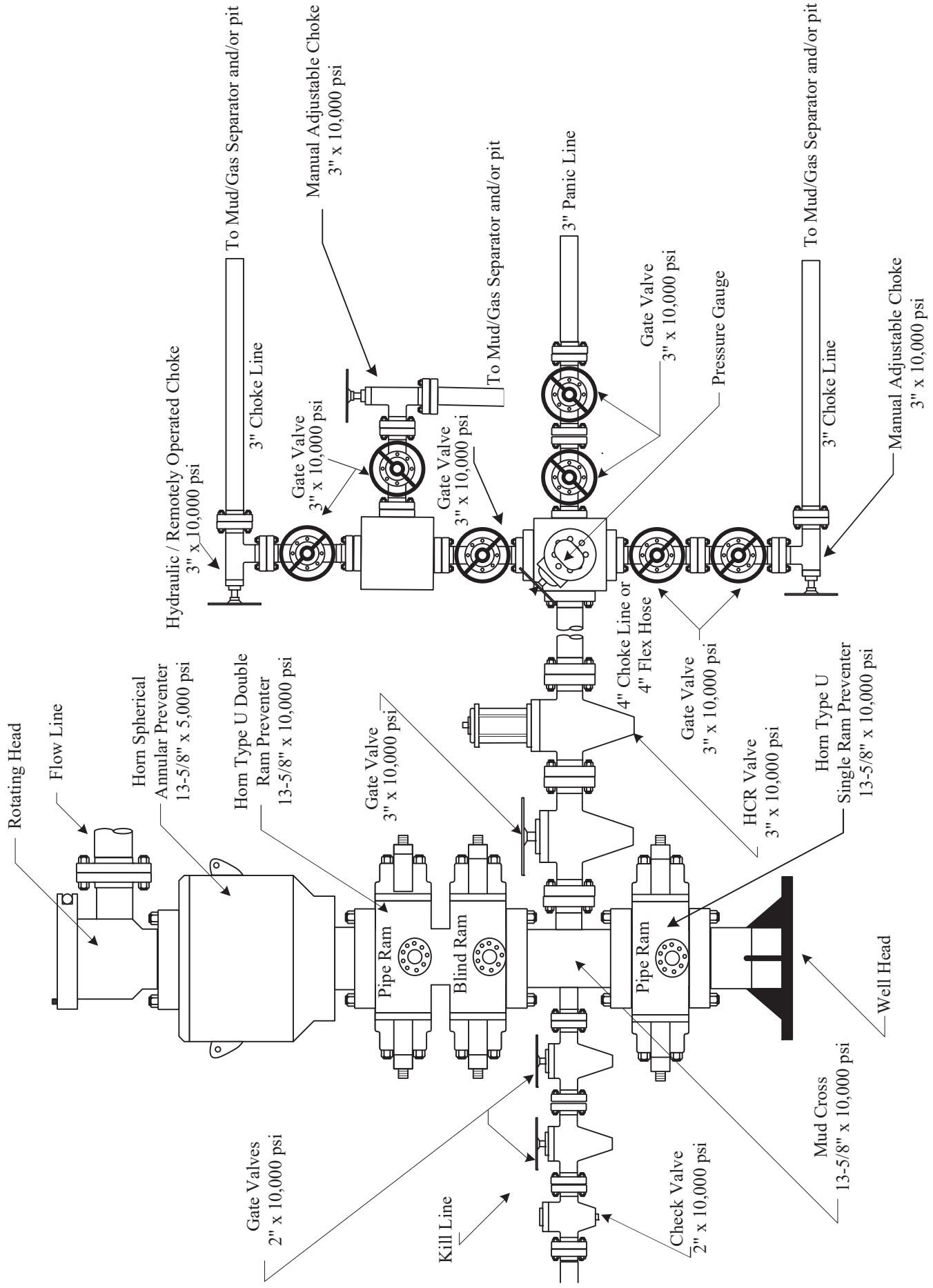
The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Sep,2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Sep 3, 2024. The overall condition is good. This is to certify that the Choke And Kill Hose complies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

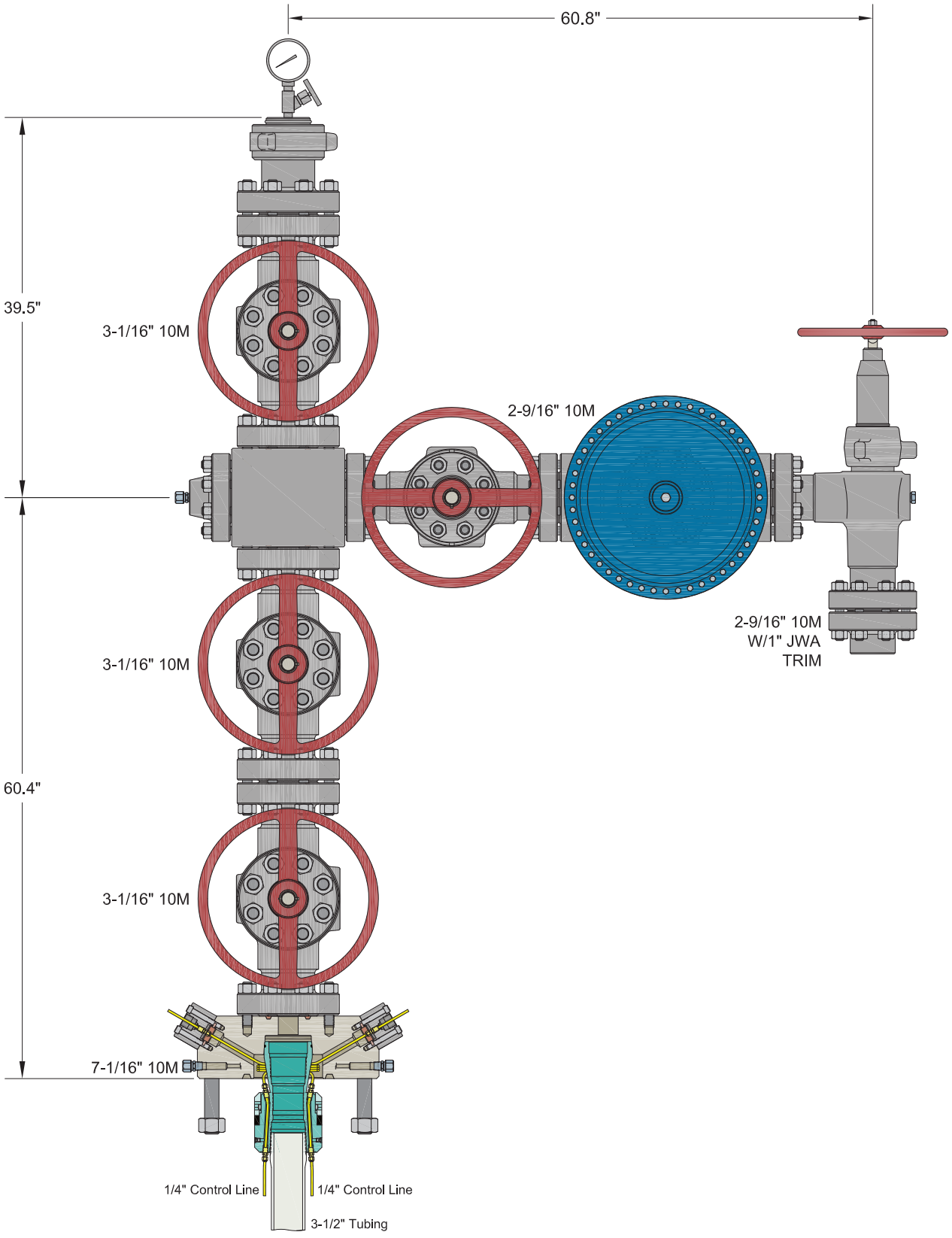
QC Manager： Jane C Date:Sep 3, 2024

16C-0403

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE

COTERRA

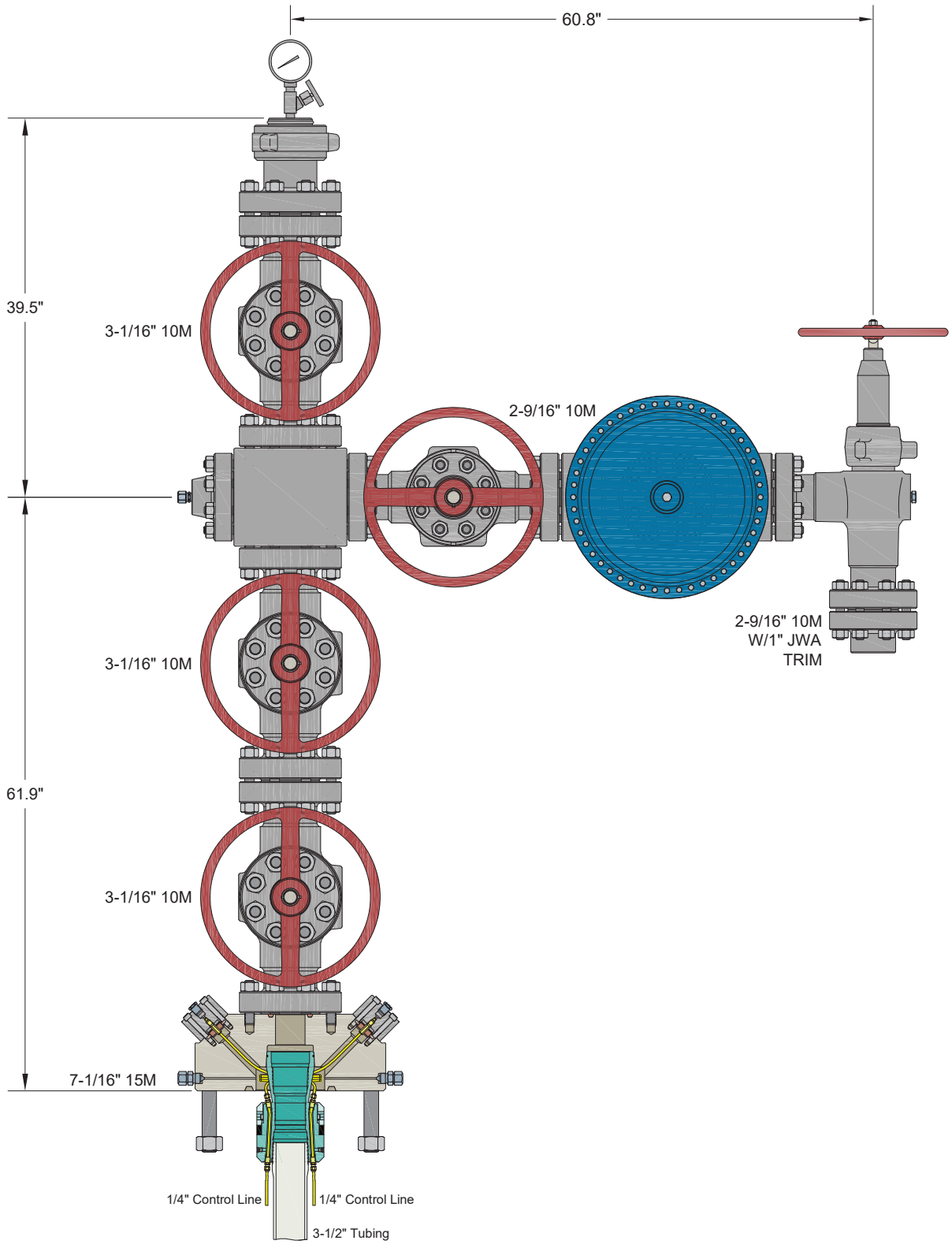

Rotating Head
Flow Line
Horn Spherical
Annular Preventer
13-5/8" x 5,000 psi
Horn Type U Double
Ram Preventer
13-5/8" x 10,000 psi
Gate Valve
3" x 10,000 psi
Pipe Ram
Blind Ram
Pipe Ram
Horn Type U
Single Ram Preventer
13-5/8" x 10,000 psi
HCR Valve
3" x 10,000 psi
4" Choke Line or
4" Flex Hose
Gate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



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ALL DIMENSIONS APPROXIMATE

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



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ALL DIMENSIONS APPROXIMAT

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

Bill To: 7050

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

Ship To: 1016

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

	Quantity	Price	Ext Price

CIMAREX

HOBBS, NM

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

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - $49,338.02

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

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

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

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

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

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

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Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

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

OPTIONAL 15M ADAPTER

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

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

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. **RISK OF LOSS**.

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

material in respect of which such claim is made.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

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

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

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

Variance Request #4: Utilize Co-Flex Choke Line

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

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.

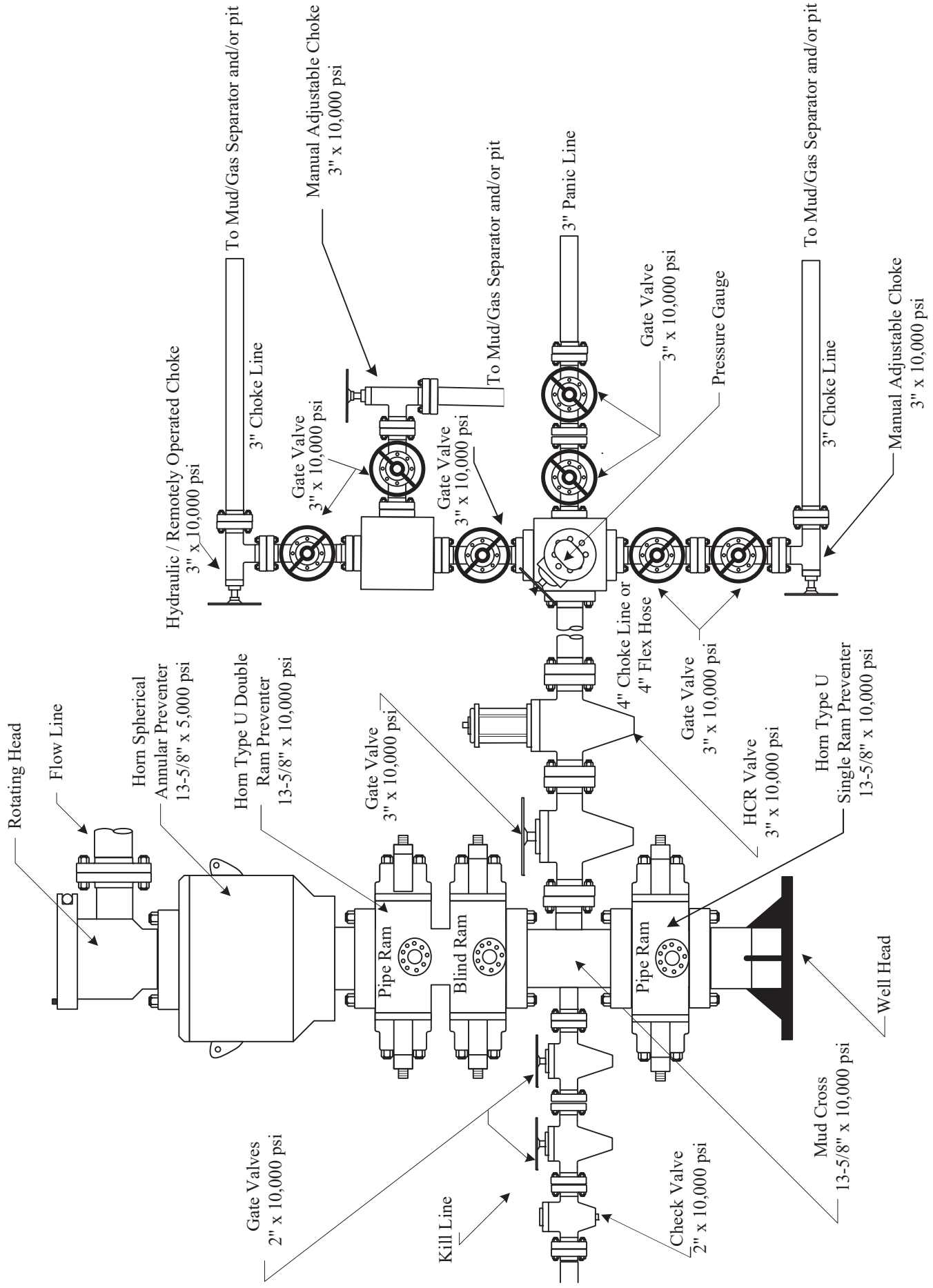
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COTERRA


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

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

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

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

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

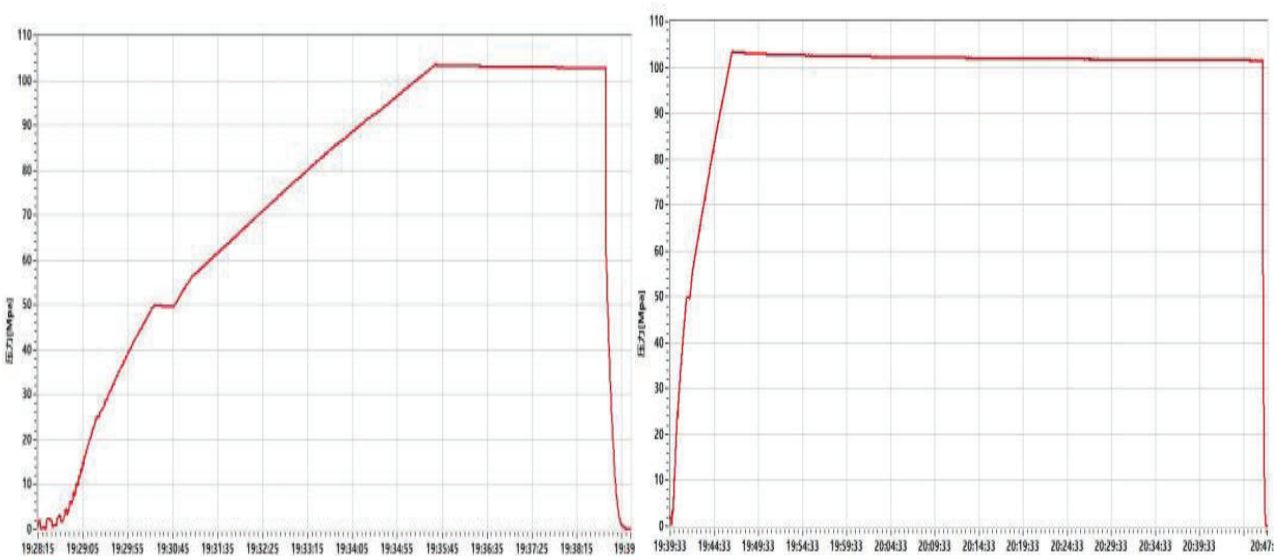
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

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

Graph of pressure testing：



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

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

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

Serial Number：VTC-7660257

customer number：PO890145-001

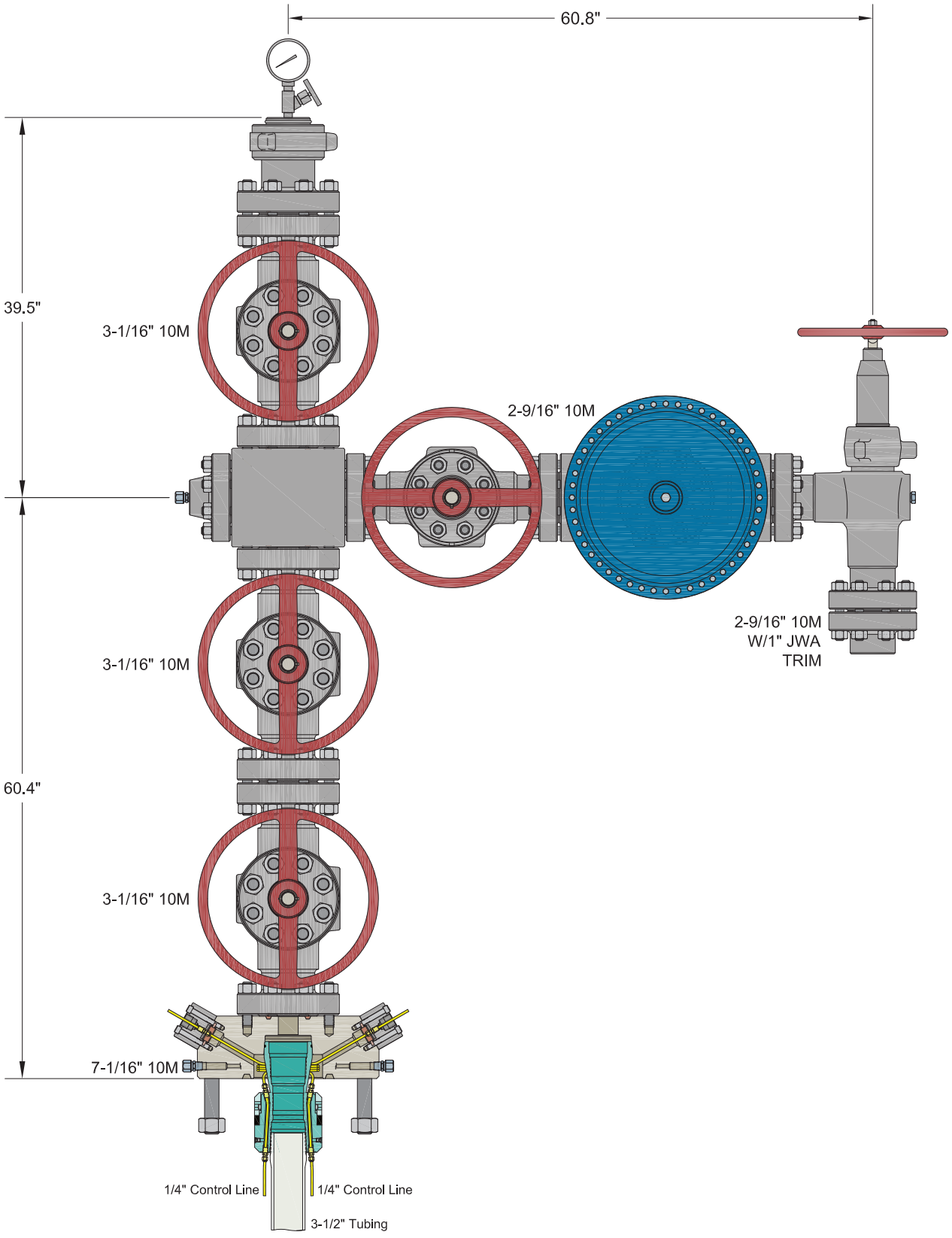
End Connections: 4-1/16″×10000psi Integral flange for sour gas service

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

QC Manager： Jane C Date:Sep 3, 2024

16C-0403

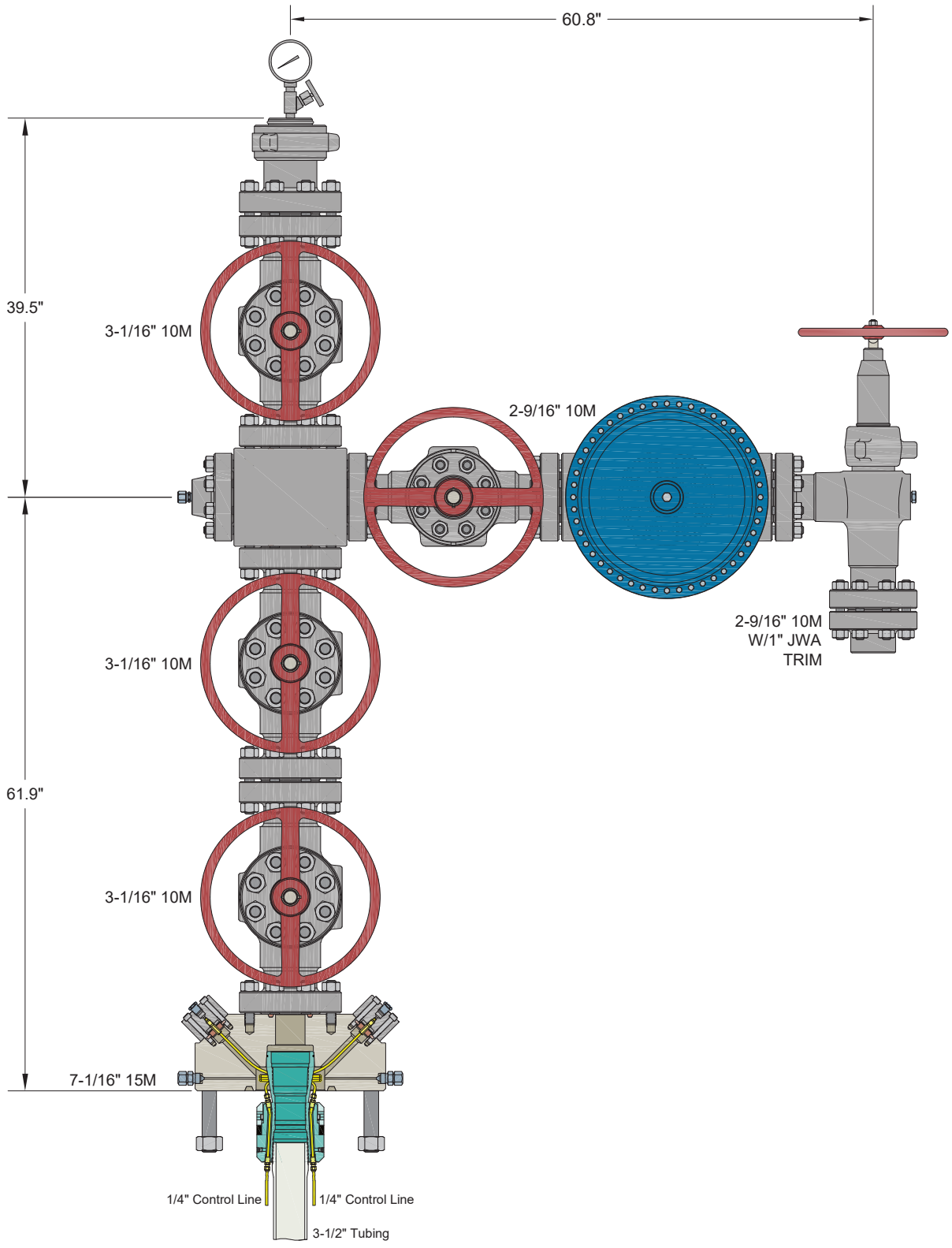
LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE



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



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ALL DIMENSIONS APPROXIMAT

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

Bill To: 7050

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

Ship To: 1016

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

	Quantity	Price	Ext Price

CIMAREX

HOBBS, NM

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

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - $49,338.02

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

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

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

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

Cactus

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

Quote Number : HBE0001018

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Valid For 30 Days

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

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

OPTIONAL 15M ADAPTER

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

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 Ph: 713-626-8800
sales@cactuswellhead.com

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. **RISK OF LOSS**.

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

material in respect of which such claim is made.

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

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

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

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

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

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

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

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

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

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

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

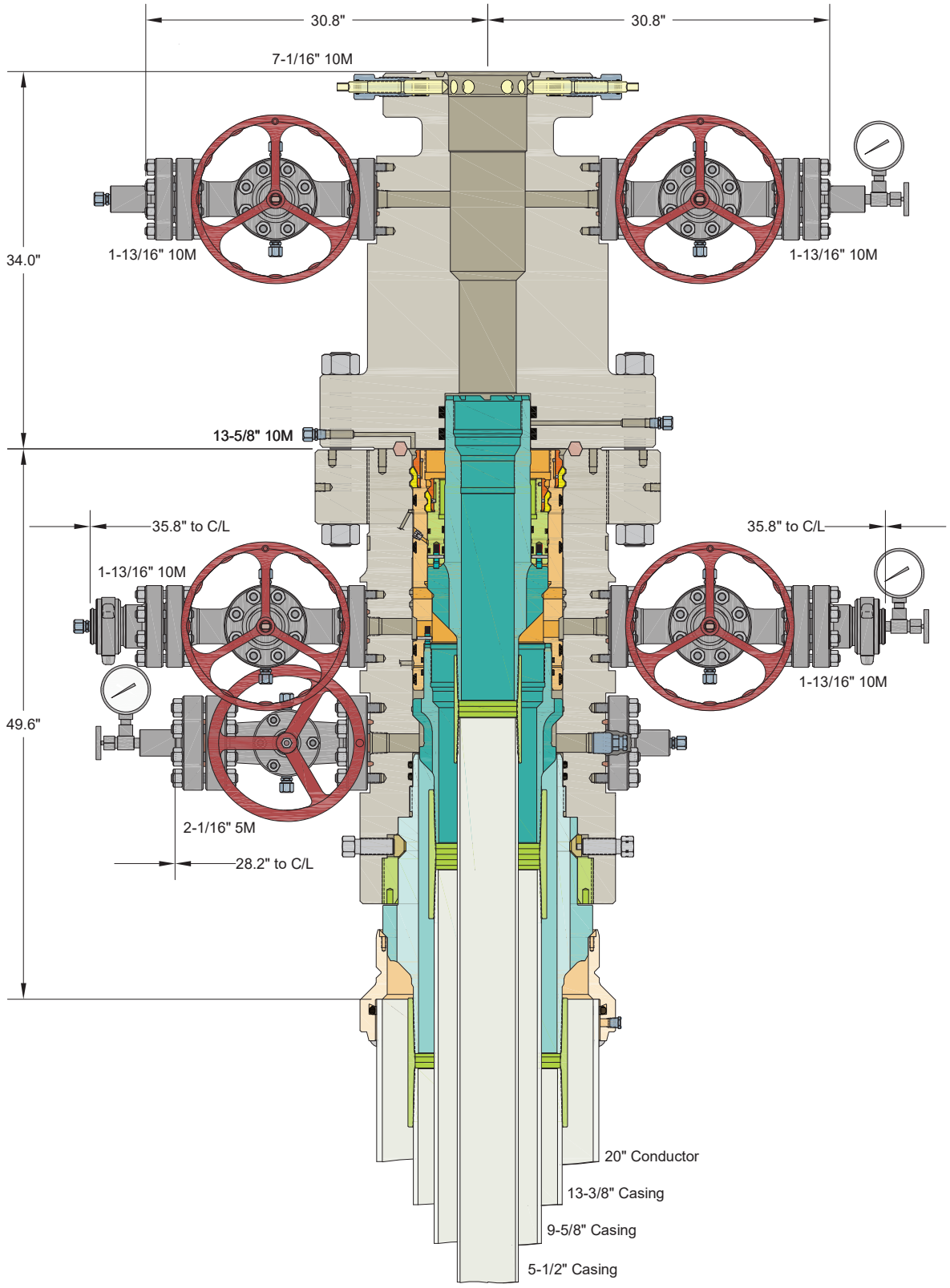
20. **CHOICE OF LAW**. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF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

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

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

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

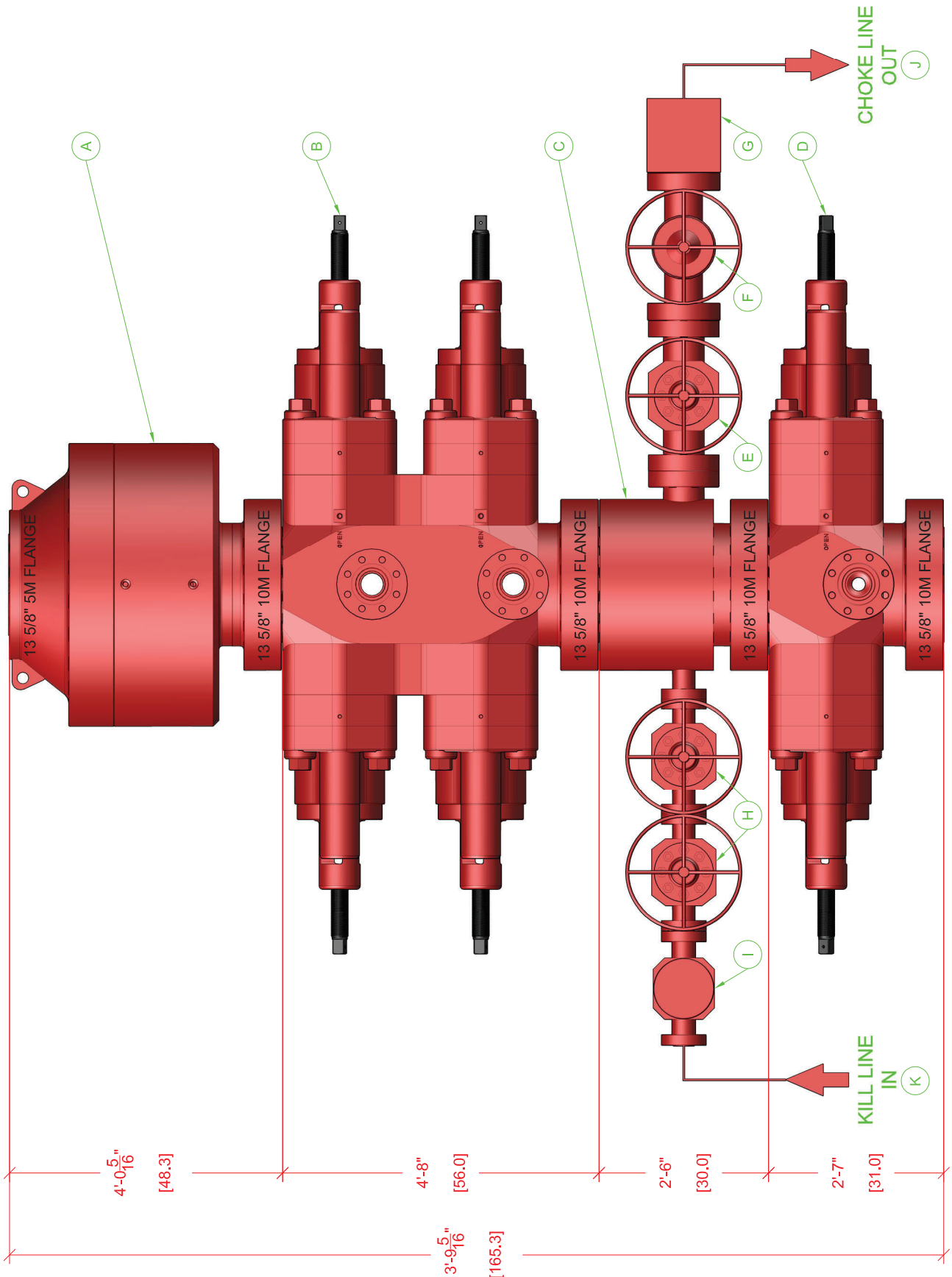
24. **COMPLIANCE**. Customer expressly agrees to comply with and abide by, all of the laws of the United States and of the State of Texas, including, but not limited to, OSHA, EPA and all rules and regulations now existing or that may be hereafter promulgated under and in accordance with any such law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



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ALL DIMENSIONS APPROXIMAT

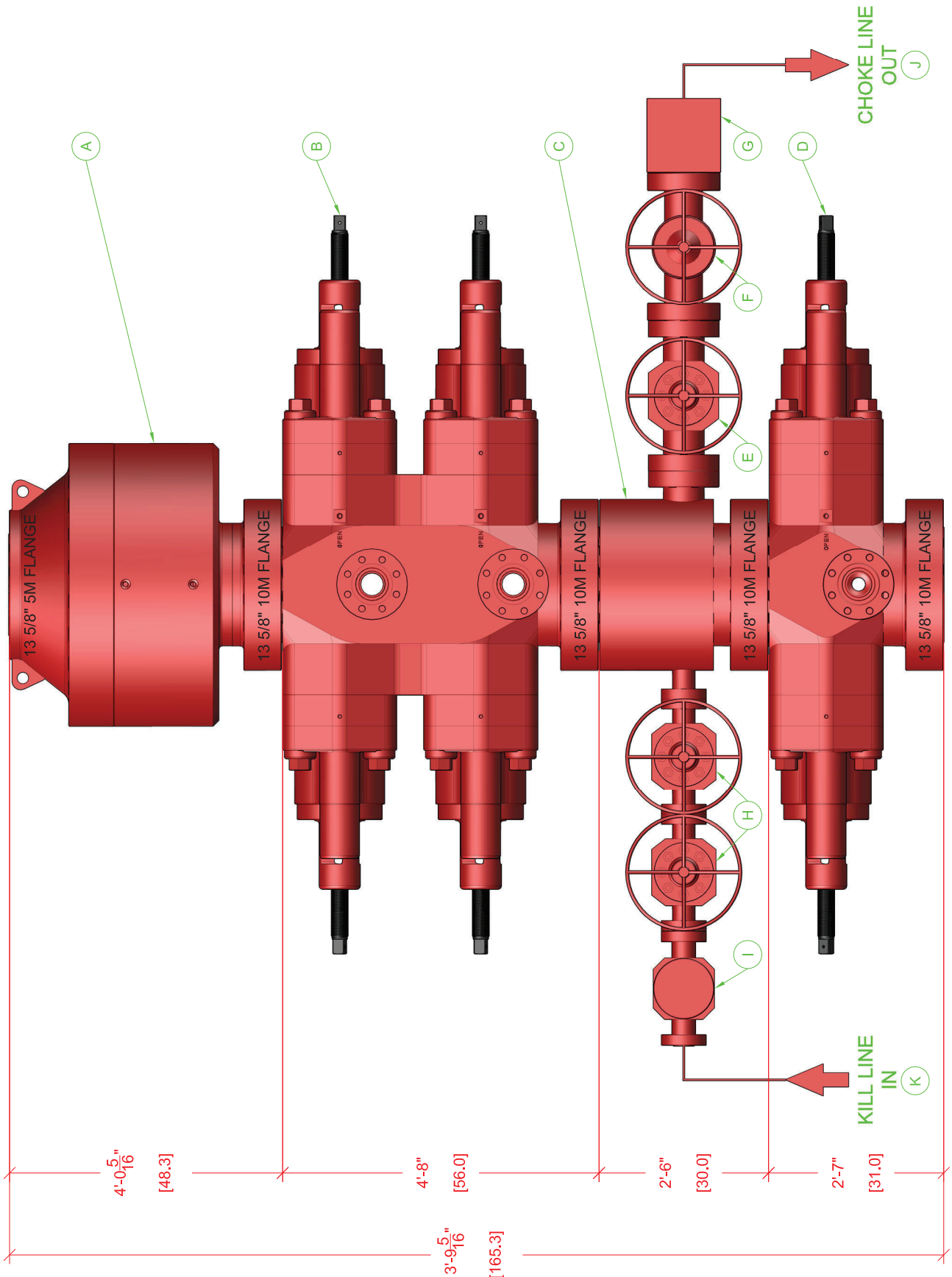
CACTUS WELLHEAD LLC	CIMAREX HOBBS, NM
20" x 13-3/8" x 9-5/8" x 5-1/2" MBU-3T-CFL Wellhead Sys. With 13-5/8" 10M x 7-1/16" 10M CTH-DBLHPS Tubing Head And 9-5/8" & 5-1/2" Fluted Mandrel Casing Hangers	DRAWN VJK 01MAY24 APPRV DRAWING NO. HBE0001215



BOP EQUIPMENT INFORMATION

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

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



BOP EQUIPMENT INFORMATION

ITEM	DESCRIPTION	MODEL	QTY
A	ANNULAR BOP	13 5/8" 5M	1
B	DOUBLE RAM BOP	13 5/8" 10M TYPE-U	1
C	MUD CROSS	13 5/8" 10M	1
D	SINGLE RAM BOP	13 5/8" 10M TYPE-U	1
E	GATE VALVE	4 1/16" 10M FC MANUAL	1
F	HCR VALVE	4 1/16" 10M HCR	1
G	STUDDED BLOCK	4 1/16" 10M	1
H	GATE VALE	2 1/16" 10M FC MANUAL	2
I	CHECK VALVE	2 1/16" 10M	1
J	CHOKE HOSE	4 1/16" 10M	1
K	KILL HOSE	2 1/16" 10M	1
L			

1. Geological Formations

TVD of target 7,500
MD at TD 18,462

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 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	
1st Bone Spring Sand - Target	7500	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1050	1050	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.63	3.80	6.39
12 1/4	0	2340	2340	9-5/8"	36.00	J-55	LT&C	1.61	2.81	5.38
8 3/4	0	7115	7115							
8 3/4	7115	18461	7500	5-1/2"	20.00	P-110	BT&C	3.00	3.34	83.25
					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

COTERRA

H2S Drilling Operations Plan

Training

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

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

H2S Detection and Alarm Systems

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

Windsock and/or wind streamers

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

Condition Flags & Signs

1. Warning signs on access road to location
2. Flags are to be displayed on sign at the entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates

danger (H2S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

Well Control Equipment

1. See the pressure control section of this submission.

Communication

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

Drillstem Testing

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

H2S Contingency Plan

Emergency Procedures

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

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

Ignition of the Gas Source

1. Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Contacting Authorities

1. Coterra personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours.
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).

Emergency Contacts

Coterra Energy

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

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

Third Party

PERMIAN REGION CONTACT NUMBERS

CALL 911

Air Ambulance Services

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

Fire / Police / Medical Care

Sheriff's Office		Fire Departments		Hospital / Medical Care Facilities	
Andrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200
Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561
Howard County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211
Terry County	806-637-2212	Brownfield	806-637-6633		
Crane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555
Val Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566
		Denver City	806-592-3516	Yoakum County Hospital	806-592-2121
Pecos County	432-336-3521	Ft. Stockton	432-336-8525		
Glasscock County	432-354-2361	Garden City			
Winkler County	432-586-3461	Kermit	432-586-2577	Winkler County Memorial	432-586-5864
		McCamey	432-652-8232	McCamey Hospital	432-652-8626
Loving County	432-377-2411	Mentone			
Irion County	325-835-2551	Mertzon			
Ward County	432-943-6703	Monahans	432-943-2211	Ward Memorial Hospital	432-943-2511
Ector County	432-335-3050	Odessa	432-335-4650	Odessa Regional Hosp.	432-582-8340
Crocket County	325-392-2661	Ozona	325-392-2626		
Reeves County	432-445-4901	Pecos	505-757-6511	Reeves County Hospital	432-447-3551
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

H2S Drilling Operations Plan

Training

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

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

H2S Detection and Alarm Systems

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

Windsock and/or wind streamers

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

Condition Flags & Signs

1. Warning signs on access road to location
2. Flags are to be displayed on sign at the entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates

danger (H2S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

Well Control Equipment

1. See the pressure control section of this submission.

Communication

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

Drillstem Testing

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

H2S Contingency Plan

Emergency Procedures

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

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

Ignition of the Gas Source

1. Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

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Roosevelt County	575-356-4408				
Chaves County	575-624-7590				

Ground Ambulance Services

Reeves County Medical	Pecos, TX	432-447-3551

Well Control Plan

Warning Signs of a Kick

If a kick is ever suspected, perform flow check.

While Drilling:

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

While Tripping:

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

While Out of the Hole:

1. Flow
2. Pit gain

Well Control Procedures with Diverter

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

If rotating head is installed:

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

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

If rotating head is not installed:

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

Well Control Procedures

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

General Well Control

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

Hard Shut-In

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

Flow Check when on Bottom

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

Shutting in while Drilling

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

Flow Check while Tripping

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

Shutting in while Tripping

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

Shutting in while Out of Hole

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

Information to Record while Shut-In

1. Shut in drill pipe pressure every 5 minutes

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

H2S with Annular Diverter:

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

H2S with BOP's:

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

Procedure for Closing Blind Rams

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

Procedure for Opening Blind Rams

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

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

BOP Drills

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

Choke Manifold Freeze Prevention

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

Coterra Energy

Eddy County, NM (NAD 83)
Riverbend 14 Federal Com
Riverbend 14 Federal Com 1H

OH

Plan: Plan 1

Total Directional
"Driven by TOTAL performance"

Standard Plan Report

16 June, 2025

Total Report Version 1.70

COMPASS 5000.16 Build 97

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Well:	Riverbend 14 Federal Com 1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Project Eddy County, NM (NAD 83)

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

Site Riverbend 14 Federal Com

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

Well Riverbend 14 Federal Com 1H

Well Position	**+N/-S**	0.00 usft	**Northing:**	414,092.97 usft	**Latitude:**	32.1381262
	+E/-W	0.00 usft	**Easting:**	625,806.83 usft	**Longitude:**	-104.0604317
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	2,935.00 usft
Grid Convergence:		0.15 °				

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM2025	8/13/2025	6.43	59.63	47,167.10000000

Design Plan 1

Audit Notes:

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

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

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

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.00	18,461.64	Plan 1 (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 1H
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Well:	Riverbend 14 Federal Com 1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Plan Summary

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	5.00	104.32	749.68	-2.70	10.56	2.00	2.00	0.00	104.32	
1,001.27	5.00	104.32	1,000.00	-8.11	31.78	0.00	0.00	0.00	0.00	
1,414.82	13.25	108.76	1,407.97	-27.85	94.22	2.00	1.99	1.07	7.09	
7,115.01	13.25	108.76	6,956.48	-448.00	1,331.00	0.00	0.00	0.00	0.00	
7,825.96	75.00	179.76	7,460.95	-873.62	1,421.49	10.00	8.69	9.99	74.87	
8,125.95	90.00	179.74	7,499.99	-1,170.20	1,422.79	5.00	5.00	-0.01	-0.09	
11,581.32	90.00	179.74	7,500.00	-4,625.53	1,438.60	0.00	0.00	0.00	0.00	
14,105.32	90.00	4.32	7,500.00	-4,683.85	3,085.05	6.95	0.00	-6.95	-90.00	
14,333.98	90.00	359.75	7,500.00	-4,455.40	3,093.16	2.00	0.00	-2.00	-90.00	
18,461.64	90.00	359.75	7,500.00	-327.78	3,074.90	0.00	0.00	0.00	0.00	

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	414,092.97	625,806.83	32.1381262	-104.0604317	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	414,092.97	625,806.83	32.1381262	-104.0604317	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	414,092.97	625,806.83	32.1381262	-104.0604317	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	414,092.97	625,806.83	32.1381262	-104.0604317	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	414,092.97	625,806.83	32.1381262	-104.0604317	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	414,092.97	625,806.83	32.1381262	-104.0604317	0.00	0.00	0.00	0.00
600.00	2.00	104.32	599.98	-0.43	1.69	414,092.54	625,808.52	32.1381250	-104.0604262	0.44	2.00	2.00	0.00
700.00	4.00	104.32	699.84	-1.73	6.76	414,091.24	625,813.59	32.1381214	-104.0604098	1.76	2.00	2.00	0.00
750.00	5.00	104.32	749.68	-2.70	10.56	414,090.27	625,817.39	32.1381187	-104.0603976	2.74	2.00	2.00	0.00
800.00	5.00	104.32	799.49	-3.77	14.79	414,089.20	625,821.62	32.1381157	-104.0603839	3.84	0.00	0.00	0.00
900.00	5.00	104.32	899.11	-5.93	23.23	414,087.04	625,830.06	32.1381097	-104.0603567	6.03	0.00	0.00	0.00
1,001.27	5.00	104.32	1,000.00	-8.11	31.78	414,084.86	625,838.61	32.1381036	-104.0603290	8.25	0.00	0.00	0.00
1,092.76	6.82	106.22	1,091.00	-10.62	40.86	414,082.35	625,847.69	32.1380967	-104.0602997	10.79	2.00	1.99	2.08
Rustler													
1,100.00	6.96	106.33	1,098.18	-10.86	41.70	414,082.11	625,848.53	32.1380960	-104.0602970	11.04	2.00	1.99	1.49
1,200.00	8.96	107.47	1,197.22	-14.90	54.94	414,078.07	625,861.77	32.1380848	-104.0602543	15.14	2.00	1.99	1.14
1,300.00	10.95	108.20	1,295.71	-20.21	71.39	414,072.76	625,878.22	32.1380701	-104.0602012	20.52	2.00	2.00	0.73
1,400.00	12.95	108.70	1,393.53	-26.77	91.04	414,066.20	625,897.87	32.1380519	-104.0601378	27.16	2.00	2.00	0.51
1,414.82	13.25	108.76	1,407.97	-27.85	94.22	414,065.12	625,901.05	32.1380490	-104.0601275	28.26	2.00	2.00	0.42
1,500.00	13.25	108.76	1,490.88	-34.12	112.70	414,058.85	625,919.53	32.1380316	-104.0600678	34.62	0.00	0.00	0.00
1,581.28	13.25	108.76	1,570.00	-40.12	130.33	414,052.85	625,937.16	32.1380150	-104.0600109	40.68	0.00	0.00	0.00
Top Salt													
1,600.00	13.25	108.76	1,588.22	-41.49	134.39	414,051.48	625,941.22	32.1380112	-104.0599978	42.08	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Well:	Riverbend 14 Federal Com 1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,700.00	13.25	108.76	1,685.56	-48.87	156.09	414,044.10	625,962.92	32.1379907	-104.0599278	49.55	0.00	0.00	0.00
1,800.00	13.25	108.76	1,782.90	-56.24	177.79	414,036.73	625,984.62	32.1379703	-104.0598577	57.01	0.00	0.00	0.00
1,900.00	13.25	108.76	1,880.24	-63.61	199.49	414,029.36	626,006.32	32.1379499	-104.0597877	64.48	0.00	0.00	0.00
2,000.00	13.25	108.76	1,977.58	-70.98	221.18	414,021.99	626,028.01	32.1379295	-104.0597177	71.94	0.00	0.00	0.00
2,100.00	13.25	108.76	2,074.91	-78.35	242.88	414,014.62	626,049.71	32.1379091	-104.0596476	79.41	0.00	0.00	0.00
2,200.00	13.25	108.76	2,172.25	-85.72	264.58	414,007.25	626,071.41	32.1378887	-104.0595776	86.87	0.00	0.00	0.00
2,300.00	13.25	108.76	2,269.59	-93.09	286.28	413,999.88	626,093.11	32.1378683	-104.0595075	94.34	0.00	0.00	0.00
2,394.93	13.25	108.76	2,362.00	-100.09	306.87	413,992.88	626,113.70	32.1378489	-104.0594410	101.43	0.00	0.00	0.00
Base Salt/Lamar													
2,400.00	13.25	108.76	2,366.93	-100.46	307.97	413,992.51	626,114.80	32.1378479	-104.0594375	101.80	0.00	0.00	0.00
2,500.00	13.25	108.76	2,464.27	-107.83	329.67	413,985.14	626,136.50	32.1378274	-104.0593675	109.27	0.00	0.00	0.00
2,588.07	13.25	108.76	2,550.00	-114.32	348.78	413,978.65	626,155.61	32.1378095	-104.0593058	115.85	0.00	0.00	0.00
Top Delaware Sands/Bell Canyon													
2,600.00	13.25	108.76	2,561.61	-115.20	351.37	413,977.77	626,158.20	32.1378070	-104.0592974	116.74	0.00	0.00	0.00
2,700.00	13.25	108.76	2,658.95	-122.57	373.06	413,970.40	626,179.89	32.1377866	-104.0592274	124.20	0.00	0.00	0.00
2,800.00	13.25	108.76	2,756.29	-129.95	394.76	413,963.02	626,201.59	32.1377662	-104.0591574	131.67	0.00	0.00	0.00
2,900.00	13.25	108.76	2,853.63	-137.32	416.46	413,955.65	626,223.29	32.1377458	-104.0590873	139.13	0.00	0.00	0.00
3,000.00	13.25	108.76	2,950.97	-144.69	438.16	413,948.28	626,244.99	32.1377254	-104.0590173	146.60	0.00	0.00	0.00
3,100.00	13.25	108.76	3,048.31	-152.06	459.85	413,940.91	626,266.68	32.1377050	-104.0589472	154.06	0.00	0.00	0.00
3,200.00	13.25	108.76	3,145.64	-159.43	481.55	413,933.54	626,288.38	32.1376845	-104.0588772	161.53	0.00	0.00	0.00
3,300.00	13.25	108.76	3,242.98	-166.80	503.25	413,926.17	626,310.08	32.1376641	-104.0588072	168.99	0.00	0.00	0.00
3,400.00	13.25	108.76	3,340.32	-174.17	524.95	413,918.80	626,331.78	32.1376437	-104.0587371	176.46	0.00	0.00	0.00
3,486.99	13.25	108.76	3,425.00	-180.58	543.82	413,912.39	626,350.65	32.1376260	-104.0586762	182.95	0.00	0.00	0.00
Cherry Canyon													
3,500.00	13.25	108.76	3,437.66	-181.54	546.64	413,911.43	626,353.47	32.1376233	-104.0586671	183.93	0.00	0.00	0.00
3,600.00	13.25	108.76	3,535.00	-188.91	568.34	413,904.06	626,375.17	32.1376029	-104.0585971	191.39	0.00	0.00	0.00
3,700.00	13.25	108.76	3,632.34	-196.28	590.04	413,896.69	626,396.87	32.1375825	-104.0585270	198.86	0.00	0.00	0.00
3,800.00	13.25	108.76	3,729.68	-203.65	611.73	413,889.32	626,418.56	32.1375621	-104.0584570	206.32	0.00	0.00	0.00
3,900.00	13.25	108.76	3,827.02	-211.03	633.43	413,881.94	626,440.26	32.1375416	-104.0583869	213.79	0.00	0.00	0.00
4,000.00	13.25	108.76	3,924.36	-218.40	655.13	413,874.57	626,461.96	32.1375212	-104.0583169	221.25	0.00	0.00	0.00
4,100.00	13.25	108.76	4,021.70	-225.77	676.83	413,867.20	626,483.66	32.1375008	-104.0582469	228.72	0.00	0.00	0.00
4,200.00	13.25	108.76	4,119.04	-233.14	698.52	413,859.83	626,505.35	32.1374804	-104.0581768	236.18	0.00	0.00	0.00
4,300.00	13.25	108.76	4,216.37	-240.51	720.22	413,852.46	626,527.05	32.1374600	-104.0581068	243.65	0.00	0.00	0.00
4,400.00	13.25	108.76	4,313.71	-247.88	741.92	413,845.09	626,548.75	32.1374396	-104.0580368	251.11	0.00	0.00	0.00
4,500.00	13.25	108.76	4,411.05	-255.25	763.61	413,837.72	626,570.44	32.1374192	-104.0579667	258.58	0.00	0.00	0.00
4,600.00	13.25	108.76	4,508.39	-262.62	785.31	413,830.35	626,592.14	32.1373987	-104.0578967	266.05	0.00	0.00	0.00
4,700.00	13.25	108.76	4,605.73	-269.99	807.01	413,822.98	626,613.84	32.1373783	-104.0578266	273.51	0.00	0.00	0.00
4,800.00	13.25	108.76	4,703.07	-277.36	828.71	413,815.61	626,635.54	32.1373579	-104.0577566	280.98	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Well:	Riverbend 14 Federal Com 1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,824.58	13.25	108.76	4,727.00	-279.18	834.04	413,813.79	626,640.87	32.1373529	-104.0577394	282.81	0.00	0.00	0.00
Brushy Canyon													
4,900.00	13.25	108.76	4,800.41	-284.73	850.40	413,808.24	626,657.23	32.1373375	-104.0576866	288.44	0.00	0.00	0.00
5,000.00	13.25	108.76	4,897.75	-292.11	872.10	413,800.86	626,678.93	32.1373171	-104.0576165	295.91	0.00	0.00	0.00
5,100.00	13.25	108.76	4,995.09	-299.48	893.80	413,793.49	626,700.63	32.1372967	-104.0575465	303.37	0.00	0.00	0.00
5,200.00	13.25	108.76	5,092.43	-306.85	915.50	413,786.12	626,722.33	32.1372763	-104.0574765	310.84	0.00	0.00	0.00
5,300.00	13.25	108.76	5,189.77	-314.22	937.19	413,778.75	626,744.02	32.1372558	-104.0574064	318.30	0.00	0.00	0.00
5,400.00	13.25	108.76	5,287.10	-321.59	958.89	413,771.38	626,765.72	32.1372354	-104.0573364	325.77	0.00	0.00	0.00
5,500.00	13.25	108.76	5,384.44	-328.96	980.59	413,764.01	626,787.42	32.1372150	-104.0572664	333.23	0.00	0.00	0.00
5,600.00	13.25	108.76	5,481.78	-336.33	1,002.28	413,756.64	626,809.11	32.1371946	-104.0571963	340.70	0.00	0.00	0.00
5,700.00	13.25	108.76	5,579.12	-343.70	1,023.98	413,749.27	626,830.81	32.1371742	-104.0571263	348.17	0.00	0.00	0.00
5,793.36	13.25	108.76	5,670.00	-350.58	1,044.24	413,742.39	626,851.07	32.1371551	-104.0570609	355.14	0.00	0.00	0.00
Lower Brushy Canyon													
5,800.00	13.25	108.76	5,676.46	-351.07	1,045.68	413,741.90	626,852.51	32.1371538	-104.0570562	355.63	0.00	0.00	0.00
5,900.00	13.25	108.76	5,773.80	-358.44	1,067.38	413,734.53	626,874.21	32.1371334	-104.0569862	363.10	0.00	0.00	0.00
6,000.00	13.25	108.76	5,871.14	-365.81	1,089.07	413,727.16	626,895.90	32.1371129	-104.0569162	370.56	0.00	0.00	0.00
6,100.00	13.25	108.76	5,968.48	-373.18	1,110.77	413,719.79	626,917.60	32.1370925	-104.0568461	378.03	0.00	0.00	0.00
6,200.00	13.25	108.76	6,065.82	-380.56	1,132.47	413,712.41	626,939.30	32.1370721	-104.0567761	385.49	0.00	0.00	0.00
6,300.00	13.25	108.76	6,163.16	-387.93	1,154.17	413,705.04	626,961.00	32.1370517	-104.0567061	392.96	0.00	0.00	0.00
6,400.00	13.25	108.76	6,260.50	-395.30	1,175.86	413,697.67	626,982.69	32.1370313	-104.0566360	400.42	0.00	0.00	0.00
6,475.51	13.25	108.76	6,334.00	-400.86	1,192.25	413,692.11	626,999.08	32.1370159	-104.0565831	406.06	0.00	0.00	0.00
Bone Spring Lime													
6,500.00	13.25	108.76	6,357.83	-402.67	1,197.56	413,690.30	627,004.39	32.1370109	-104.0565660	407.89	0.00	0.00	0.00
6,600.00	13.25	108.76	6,455.17	-410.04	1,219.26	413,682.93	627,026.09	32.1369904	-104.0564960	415.36	0.00	0.00	0.00
6,700.00	13.25	108.76	6,552.51	-417.41	1,240.95	413,675.56	627,047.78	32.1369700	-104.0564259	422.82	0.00	0.00	0.00
6,800.00	13.25	108.76	6,649.85	-424.78	1,262.65	413,668.19	627,069.48	32.1369496	-104.0563559	430.29	0.00	0.00	0.00
6,900.00	13.25	108.76	6,747.19	-432.15	1,284.35	413,660.82	627,091.18	32.1369292	-104.0562858	437.75	0.00	0.00	0.00
7,000.00	13.25	108.76	6,844.53	-439.52	1,306.05	413,653.45	627,112.88	32.1369088	-104.0562158	445.22	0.00	0.00	0.00
7,100.00	13.25	108.76	6,941.87	-446.89	1,327.74	413,646.08	627,134.57	32.1368884	-104.0561458	452.68	0.00	0.00	0.00
7,115.01	13.25	108.76	6,956.48	-448.00	1,331.00	413,644.97	627,137.83	32.1368853	-104.0561353	453.80	0.00	0.00	0.00
7,150.00	14.55	122.33	6,990.45	-451.64	1,338.51	413,641.33	627,145.34	32.1368752	-104.0561110	457.48	10.00	3.72	38.76
7,200.00	17.47	137.14	7,038.53	-460.51	1,348.93	413,632.46	627,155.76	32.1368508	-104.0560774	466.39	10.00	5.84	29.62
7,250.00	21.17	147.38	7,085.72	-473.62	1,358.91	413,619.35	627,165.74	32.1368147	-104.0560453	479.54	10.00	7.39	20.49
7,300.00	25.29	154.56	7,131.67	-490.88	1,368.37	413,602.09	627,175.20	32.1367672	-104.0560149	496.85	10.00	8.26	14.36
7,350.00	29.68	159.79	7,176.02	-512.15	1,377.24	413,580.82	627,184.07	32.1367086	-104.0559864	518.16	10.00	8.77	10.46
7,400.00	34.22	163.76	7,218.44	-537.28	1,385.45	413,555.69	627,192.28	32.1366395	-104.0559601	543.32	10.00	9.08	7.94
7,450.00	38.86	166.89	7,258.60	-566.08	1,392.95	413,526.89	627,199.78	32.1365603	-104.0559361	572.15	10.00	9.28	6.27
7,451.80	39.03	166.99	7,260.00	-567.17	1,393.20	413,525.80	627,200.03	32.1365573	-104.0559353	573.25	10.00	9.36	5.60

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Well:	Riverbend 14 Federal Com 1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1st Bone Spring Sand													
7,500.00	43.57	169.45	7,296.21	-598.31	1,399.66	413,494.66	627,206.49	32.1364716	-104.0559147	604.41	10.00	9.42	5.09
7,550.00	48.32	171.59	7,330.97	-633.74	1,405.55	413,459.23	627,212.38	32.1363742	-104.0558959	639.87	10.00	9.51	4.29
7,600.00	53.11	173.44	7,362.62	-672.11	1,410.57	413,420.86	627,217.40	32.1362687	-104.0558801	678.25	10.00	9.58	3.70
7,650.00	57.93	175.07	7,390.91	-713.10	1,414.67	413,379.87	627,221.50	32.1361560	-104.0558671	719.27	10.00	9.63	3.26
7,700.00	62.77	176.54	7,415.64	-756.43	1,417.84	413,336.54	627,224.67	32.1360369	-104.0558573	762.60	10.00	9.67	2.93
7,750.00	67.61	177.88	7,436.62	-801.74	1,420.03	413,291.23	627,226.86	32.1359123	-104.0558506	807.93	10.00	9.70	2.69
7,800.00	72.47	179.14	7,453.68	-848.71	1,421.25	413,244.26	627,228.08	32.1357831	-104.0558470	854.90	10.00	9.72	2.51
7,825.96	75.00	179.76	7,460.95	-873.62	1,421.49	413,219.35	627,228.32	32.1357147	-104.0558465	879.82	10.00	9.73	2.40
7,900.00	78.70	179.75	7,477.79	-945.71	1,421.79	413,147.26	627,228.62	32.1355165	-104.0558461	951.91	5.00	5.00	-0.01
8,000.00	83.70	179.75	7,493.08	-1,044.50	1,422.22	413,048.47	627,229.05	32.1352449	-104.0558455	1,050.70	5.00	5.00	-0.01
8,100.00	88.70	179.74	7,499.70	-1,144.25	1,422.67	412,948.72	627,229.50	32.1349707	-104.0558449	1,150.45	5.00	5.00	-0.01
8,125.95	90.00	179.74	7,499.99	-1,170.20	1,422.79	412,922.77	627,229.62	32.1348994	-104.0558447	1,176.40	5.00	5.00	-0.01
8,200.00	90.00	179.74	7,499.99	-1,244.25	1,423.12	412,848.72	627,229.95	32.1346958	-104.0558443	1,250.45	0.00	0.00	0.00
8,300.00	90.00	179.74	7,499.99	-1,344.25	1,423.58	412,748.72	627,230.41	32.1344209	-104.0558436	1,350.45	0.00	0.00	0.00
8,400.00	90.00	179.74	7,499.99	-1,444.25	1,424.04	412,648.72	627,230.87	32.1341460	-104.0558430	1,450.45	0.00	0.00	0.00
8,500.00	90.00	179.74	7,499.99	-1,544.25	1,424.50	412,548.72	627,231.33	32.1338712	-104.0558423	1,550.45	0.00	0.00	0.00
8,600.00	90.00	179.74	7,500.00	-1,644.24	1,424.96	412,448.73	627,231.79	32.1335963	-104.0558417	1,650.45	0.00	0.00	0.00
8,700.00	90.00	179.74	7,500.00	-1,744.24	1,425.41	412,348.73	627,232.24	32.1333214	-104.0558410	1,750.45	0.00	0.00	0.00
8,800.00	90.00	179.74	7,500.00	-1,844.24	1,425.87	412,248.73	627,232.70	32.1330465	-104.0558404	1,850.45	0.00	0.00	0.00
8,900.00	90.00	179.74	7,500.00	-1,944.24	1,426.33	412,148.73	627,233.16	32.1327716	-104.0558397	1,950.45	0.00	0.00	0.00
9,000.00	90.00	179.74	7,500.00	-2,044.24	1,426.79	412,048.73	627,233.62	32.1324967	-104.0558391	2,050.45	0.00	0.00	0.00
9,100.00	90.00	179.74	7,500.00	-2,144.24	1,427.24	411,948.73	627,234.07	32.1322218	-104.0558384	2,150.45	0.00	0.00	0.00
9,200.00	90.00	179.74	7,500.00	-2,244.24	1,427.70	411,848.73	627,234.53	32.1319469	-104.0558378	2,250.45	0.00	0.00	0.00
9,300.00	90.00	179.74	7,500.00	-2,344.24	1,428.16	411,748.73	627,234.99	32.1316720	-104.0558371	2,350.45	0.00	0.00	0.00
9,400.00	90.00	179.74	7,500.00	-2,444.24	1,428.62	411,648.73	627,235.45	32.1313971	-104.0558365	2,450.45	0.00	0.00	0.00
9,500.00	90.00	179.74	7,500.00	-2,544.24	1,429.07	411,548.73	627,235.90	32.1311222	-104.0558359	2,550.45	0.00	0.00	0.00
9,600.00	90.00	179.74	7,500.00	-2,644.23	1,429.53	411,448.74	627,236.36	32.1308473	-104.0558352	2,650.45	0.00	0.00	0.00
9,700.00	90.00	179.74	7,500.00	-2,744.23	1,429.99	411,348.74	627,236.82	32.1305725	-104.0558346	2,750.45	0.00	0.00	0.00
9,800.00	90.00	179.74	7,500.00	-2,844.23	1,430.45	411,248.74	627,237.28	32.1302976	-104.0558339	2,850.45	0.00	0.00	0.00
9,900.00	90.00	179.74	7,500.00	-2,944.23	1,430.91	411,148.74	627,237.74	32.1300227	-104.0558333	2,950.45	0.00	0.00	0.00
10,000.00	90.00	179.74	7,500.00	-3,044.23	1,431.36	411,048.74	627,238.19	32.1297478	-104.0558326	3,050.45	0.00	0.00	0.00
10,100.00	90.00	179.74	7,500.00	-3,144.23	1,431.82	410,948.74	627,238.65	32.1294729	-104.0558320	3,150.45	0.00	0.00	0.00
10,200.00	90.00	179.74	7,500.00	-3,244.23	1,432.28	410,848.74	627,239.11	32.1291980	-104.0558313	3,250.45	0.00	0.00	0.00
10,300.00	90.00	179.74	7,500.00	-3,344.23	1,432.74	410,748.74	627,239.57	32.1289231	-104.0558307	3,350.45	0.00	0.00	0.00
10,400.00	90.00	179.74	7,500.00	-3,444.23	1,433.19	410,648.74	627,240.02	32.1286482	-104.0558300	3,450.45	0.00	0.00	0.00
10,500.00	90.00	179.74	7,500.00	-3,544.23	1,433.65	410,548.75	627,240.48	32.1283733	-104.0558294	3,550.45	0.00	0.00	0.00
10,600.00	90.00	179.74	7,500.00	-3,644.22	1,434.11	410,448.75	627,240.94	32.1280984	-104.0558287	3,650.45	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Well:	Riverbend 14 Federal Com 1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.00	90.00	179.74	7,500.00	-3,744.22	1,434.57	410,348.75	627,241.40	32.1278235	-104.0558281	3,750.45	0.00	0.00	0.00
10,800.00	90.00	179.74	7,500.00	-3,844.22	1,435.02	410,248.75	627,241.85	32.1275486	-104.0558275	3,850.45	0.00	0.00	0.00
10,900.00	90.00	179.74	7,500.00	-3,944.22	1,435.48	410,148.75	627,242.31	32.1272738	-104.0558268	3,950.45	0.00	0.00	0.00
11,000.00	90.00	179.74	7,500.00	-4,044.22	1,435.94	410,048.75	627,242.77	32.1269989	-104.0558262	4,050.45	0.00	0.00	0.00
11,100.00	90.00	179.74	7,500.00	-4,144.22	1,436.40	409,948.75	627,243.23	32.1267240	-104.0558255	4,150.45	0.00	0.00	0.00
11,200.00	90.00	179.74	7,500.00	-4,244.22	1,436.85	409,848.75	627,243.68	32.1264491	-104.0558249	4,250.45	0.00	0.00	0.00
11,300.00	90.00	179.74	7,500.00	-4,344.22	1,437.31	409,748.75	627,244.14	32.1261742	-104.0558242	4,350.45	0.00	0.00	0.00
11,400.00	90.00	179.74	7,500.00	-4,444.22	1,437.77	409,648.75	627,244.60	32.1258993	-104.0558236	4,450.45	0.00	0.00	0.00
11,500.00	90.00	179.74	7,500.00	-4,544.21	1,438.23	409,548.76	627,245.06	32.1256244	-104.0558229	4,550.45	0.00	0.00	0.00
11,581.32	90.00	179.74	7,500.00	-4,625.53	1,438.60	409,467.44	627,245.43	32.1254009	-104.0558224	4,631.76	0.00	0.00	0.00
1st Bone Spring Sand LZ													
11,600.00	90.00	178.44	7,500.00	-4,644.21	1,438.90	409,448.76	627,245.73	32.1253495	-104.0558216	4,650.45	6.95	0.00	-6.95
11,650.00	90.00	174.96	7,500.00	-4,694.12	1,441.77	409,398.85	627,248.60	32.1252123	-104.0558127	4,700.37	6.95	0.00	-6.95
11,700.00	90.00	171.49	7,500.00	-4,743.76	1,447.67	409,349.21	627,254.50	32.1250758	-104.0557941	4,750.04	6.95	0.00	-6.95
11,750.00	90.00	168.01	7,500.00	-4,792.96	1,456.56	409,300.01	627,263.39	32.1249405	-104.0557658	4,799.27	6.95	0.00	-6.95
11,800.00	90.00	164.54	7,500.00	-4,841.52	1,468.42	409,251.45	627,275.25	32.1248069	-104.0557279	4,847.89	6.95	0.00	-6.95
11,850.00	90.00	161.06	7,500.00	-4,889.28	1,483.21	409,203.69	627,290.04	32.1246755	-104.0556805	4,895.71	6.95	0.00	-6.95
11,900.00	90.00	157.59	7,500.00	-4,936.05	1,500.85	409,156.92	627,307.68	32.1245468	-104.0556239	4,942.56	6.95	0.00	-6.95
11,950.00	90.00	154.11	7,500.00	-4,981.67	1,521.31	409,111.30	627,328.14	32.1244213	-104.0555582	4,988.26	6.95	0.00	-6.95
12,000.00	90.00	150.64	7,500.00	-5,025.97	1,544.49	409,067.00	627,351.32	32.1242994	-104.0554837	5,032.66	6.95	0.00	-6.95
12,050.00	90.00	147.16	7,500.00	-5,068.77	1,570.31	409,024.20	627,377.14	32.1241815	-104.0554006	5,075.58	6.95	0.00	-6.95
12,100.00	90.00	143.69	7,500.00	-5,109.94	1,598.68	408,983.03	627,405.51	32.1240681	-104.0553093	5,116.86	6.95	0.00	-6.95
12,150.00	90.00	140.21	7,500.00	-5,149.31	1,629.49	408,943.66	627,436.32	32.1239597	-104.0552101	5,156.37	6.95	0.00	-6.95
12,200.00	90.00	136.74	7,500.00	-5,186.73	1,662.63	408,906.24	627,469.46	32.1238566	-104.0551034	5,193.94	6.95	0.00	-6.95
12,250.00	90.00	133.26	7,500.00	-5,222.09	1,697.98	408,870.88	627,504.81	32.1237591	-104.0549895	5,229.44	6.95	0.00	-6.95
12,300.00	90.00	129.79	7,500.00	-5,255.23	1,735.40	408,837.74	627,542.23	32.1236678	-104.0548689	5,262.75	6.95	0.00	-6.95
12,350.00	90.00	126.31	7,500.00	-5,286.04	1,774.77	408,806.93	627,581.60	32.1235828	-104.0547420	5,293.74	6.95	0.00	-6.95
12,400.00	90.00	122.84	7,500.00	-5,314.41	1,815.93	408,778.56	627,622.76	32.1235045	-104.0546093	5,322.29	6.95	0.00	-6.95
12,450.00	90.00	119.36	7,500.00	-5,340.24	1,858.74	408,752.73	627,665.57	32.1234332	-104.0544712	5,348.30	6.95	0.00	-6.95
12,500.00	90.00	115.89	7,500.00	-5,363.42	1,903.03	408,729.55	627,709.86	32.1233692	-104.0543283	5,371.67	6.95	0.00	-6.95
12,550.00	90.00	112.41	7,500.00	-5,383.87	1,948.65	408,709.10	627,755.48	32.1233126	-104.0541811	5,392.33	6.95	0.00	-6.95
12,600.00	90.00	108.94	7,500.00	-5,401.53	1,995.42	408,691.44	627,802.25	32.1232638	-104.0540302	5,410.18	6.95	0.00	-6.95
12,650.00	90.00	105.46	7,500.00	-5,416.31	2,043.18	408,676.66	627,850.01	32.1232228	-104.0538761	5,425.17	6.95	0.00	-6.95
12,700.00	90.00	101.99	7,500.00	-5,428.17	2,091.74	408,664.80	627,898.57	32.1231898	-104.0537193	5,437.25	6.95	0.00	-6.95
12,750.00	90.00	98.51	7,500.00	-5,437.07	2,140.93	408,655.90	627,947.76	32.1231650	-104.0535605	5,446.36	6.95	0.00	-6.95
12,800.00	90.00	95.04	7,500.00	-5,442.97	2,190.58	408,650.00	627,997.41	32.1231484	-104.0534002	5,452.48	6.95	0.00	-6.95
12,850.00	90.00	91.56	7,500.00	-5,445.85	2,240.49	408,647.12	628,047.32	32.1231402	-104.0532390	5,455.57	6.95	0.00	-6.95
12,900.00	90.00	88.09	7,500.00	-5,445.70	2,290.48	408,647.27	628,097.31	32.1231402	-104.0530775	5,455.64	6.95	0.00	-6.95

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Well:	Riverbend 14 Federal Com 1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,950.00	90.00	84.61	7,500.00	-5,442.52	2,340.37	408,650.45	628,147.20	32.1231486	-104.0529163	5,452.68	6.95	0.00	-6.95
13,000.00	90.00	81.14	7,500.00	-5,436.32	2,389.98	408,656.65	628,196.81	32.1231653	-104.0527560	5,446.69	6.95	0.00	-6.95
13,050.00	90.00	77.66	7,500.00	-5,427.12	2,439.12	408,665.85	628,245.95	32.1231902	-104.0525972	5,437.71	6.95	0.00	-6.95
13,100.00	90.00	74.19	7,500.00	-5,414.97	2,487.61	408,678.00	628,294.44	32.1232233	-104.0524404	5,425.77	6.95	0.00	-6.95
13,150.00	90.00	70.71	7,500.00	-5,399.89	2,535.27	408,693.08	628,342.10	32.1232644	-104.0522863	5,410.90	6.95	0.00	-6.95
13,200.00	90.00	67.24	7,500.00	-5,381.96	2,581.94	408,711.01	628,388.77	32.1233134	-104.0521355	5,393.17	6.95	0.00	-6.95
13,250.00	90.00	63.76	7,500.00	-5,361.23	2,627.43	408,731.74	628,434.26	32.1233700	-104.0519883	5,372.64	6.95	0.00	-6.95
13,300.00	90.00	60.29	7,500.00	-5,337.78	2,671.58	408,755.19	628,478.41	32.1234342	-104.0518455	5,349.39	6.95	0.00	-6.95
13,350.00	90.00	56.81	7,500.00	-5,311.70	2,714.23	408,781.27	628,521.06	32.1235056	-104.0517075	5,323.49	6.95	0.00	-6.95
13,400.00	90.00	53.34	7,500.00	-5,283.08	2,755.22	408,809.89	628,562.05	32.1235839	-104.0515749	5,295.05	6.95	0.00	-6.95
13,450.00	90.00	49.86	7,500.00	-5,252.03	2,794.40	408,840.94	628,601.23	32.1236690	-104.0514481	5,264.17	6.95	0.00	-6.95
13,500.00	90.00	46.39	7,500.00	-5,218.66	2,831.63	408,874.31	628,638.46	32.1237605	-104.0513275	5,230.96	6.95	0.00	-6.95
13,550.00	90.00	42.91	7,500.00	-5,183.09	2,866.76	408,909.88	628,673.59	32.1238580	-104.0512137	5,195.55	6.95	0.00	-6.95
13,600.00	90.00	39.44	7,500.00	-5,145.47	2,899.67	408,947.50	628,706.50	32.1239612	-104.0511071	5,158.07	6.95	0.00	-6.95
13,650.00	90.00	35.96	7,500.00	-5,105.91	2,930.25	408,987.06	628,737.08	32.1240697	-104.0510080	5,118.65	6.95	0.00	-6.95
13,700.00	90.00	32.49	7,500.00	-5,064.58	2,958.37	409,028.39	628,765.20	32.1241831	-104.0509168	5,077.44	6.95	0.00	-6.95
13,750.00	90.00	29.01	7,500.00	-5,021.61	2,983.93	409,071.36	628,790.76	32.1243010	-104.0508339	5,034.59	6.95	0.00	-6.95
13,800.00	90.00	25.54	7,500.00	-4,977.18	3,006.84	409,115.79	628,813.67	32.1244230	-104.0507595	4,990.25	6.95	0.00	-6.95
13,850.00	90.00	22.06	7,500.00	-4,931.44	3,027.01	409,161.53	628,833.84	32.1245486	-104.0506939	4,944.60	6.95	0.00	-6.95
13,900.00	90.00	18.59	7,500.00	-4,884.56	3,044.38	409,208.41	628,851.21	32.1246773	-104.0506375	4,897.80	6.95	0.00	-6.95
13,950.00	90.00	15.11	7,500.00	-4,836.72	3,058.87	409,256.25	628,865.70	32.1248088	-104.0505902	4,850.02	6.95	0.00	-6.95
14,000.00	90.00	11.64	7,500.00	-4,788.08	3,070.44	409,304.89	628,877.27	32.1249424	-104.0505525	4,801.43	6.95	0.00	-6.95
14,050.00	90.00	8.16	7,500.00	-4,738.83	3,079.04	409,354.14	628,885.87	32.1250777	-104.0505243	4,752.22	6.95	0.00	-6.95
14,100.00	90.00	4.69	7,500.00	-4,689.15	3,084.63	409,403.82	628,891.46	32.1252142	-104.0505058	4,702.57	6.95	0.00	-6.95
14,105.32	90.00	4.32	7,500.00	-4,683.85	3,085.05	409,409.12	628,891.88	32.1252288	-104.0505044	4,697.27	6.95	0.00	-6.95
14,200.00	90.00	2.43	7,500.00	-4,589.34	3,090.62	409,503.63	628,897.45	32.1254885	-104.0504856	4,602.78	2.00	0.00	-2.00
14,300.00	90.00	0.43	7,500.00	-4,489.37	3,093.11	409,603.60	628,899.94	32.1257633	-104.0504767	4,502.83	2.00	0.00	-2.00
14,333.98	90.00	359.75	7,500.00	-4,455.40	3,093.16	409,637.57	628,899.99	32.1258567	-104.0504762	4,468.85	2.00	0.00	-2.00
14,400.00	90.00	359.75	7,500.00	-4,389.37	3,092.87	409,703.60	628,899.70	32.1260382	-104.0504766	4,402.83	0.00	0.00	0.00
14,500.00	90.00	359.75	7,500.00	-4,289.38	3,092.42	409,803.59	628,899.25	32.1263131	-104.0504772	4,302.83	0.00	0.00	0.00
14,600.00	90.00	359.75	7,500.00	-4,189.38	3,091.98	409,903.59	628,898.81	32.1265880	-104.0504778	4,202.83	0.00	0.00	0.00
14,700.00	90.00	359.75	7,500.00	-4,089.38	3,091.54	410,003.59	628,898.37	32.1268629	-104.0504784	4,102.83	0.00	0.00	0.00
14,800.00	90.00	359.75	7,500.00	-3,989.38	3,091.10	410,103.59	628,897.93	32.1271378	-104.0504790	4,002.83	0.00	0.00	0.00
14,900.00	90.00	359.75	7,500.00	-3,889.38	3,090.66	410,203.59	628,897.49	32.1274127	-104.0504795	3,902.83	0.00	0.00	0.00
15,000.00	90.00	359.75	7,500.00	-3,789.38	3,090.21	410,303.59	628,897.04	32.1276876	-104.0504801	3,802.83	0.00	0.00	0.00
15,100.00	90.00	359.75	7,500.00	-3,689.38	3,089.77	410,403.59	628,896.60	32.1279625	-104.0504807	3,702.83	0.00	0.00	0.00
15,200.00	90.00	359.75	7,500.00	-3,589.38	3,089.33	410,503.59	628,896.16	32.1282373	-104.0504813	3,602.83	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Well:	Riverbend 14 Federal Com 1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,300.00	90.00	359.75	7,500.00	-3,489.38	3,088.89	410,603.59	628,895.72	32.1285122	-104.0504819	3,502.83	0.00	0.00	0.00
15,400.00	90.00	359.75	7,500.00	-3,389.38	3,088.44	410,703.59	628,895.27	32.1287871	-104.0504824	3,402.83	0.00	0.00	0.00
15,500.00	90.00	359.75	7,500.00	-3,289.39	3,088.00	410,803.58	628,894.83	32.1290620	-104.0504830	3,302.83	0.00	0.00	0.00
15,600.00	90.00	359.75	7,500.00	-3,189.39	3,087.56	410,903.58	628,894.39	32.1293369	-104.0504836	3,202.83	0.00	0.00	0.00
15,700.00	90.00	359.75	7,500.00	-3,089.39	3,087.12	411,003.58	628,893.95	32.1296118	-104.0504842	3,102.83	0.00	0.00	0.00
15,800.00	90.00	359.75	7,500.00	-2,989.39	3,086.67	411,103.58	628,893.50	32.1298867	-104.0504848	3,002.83	0.00	0.00	0.00
15,900.00	90.00	359.75	7,500.00	-2,889.39	3,086.23	411,203.58	628,893.06	32.1301616	-104.0504853	2,902.83	0.00	0.00	0.00
16,000.00	90.00	359.75	7,500.00	-2,789.39	3,085.79	411,303.58	628,892.62	32.1304365	-104.0504859	2,802.83	0.00	0.00	0.00
16,100.00	90.00	359.75	7,500.00	-2,689.39	3,085.35	411,403.58	628,892.18	32.1307114	-104.0504865	2,702.83	0.00	0.00	0.00
16,200.00	90.00	359.75	7,500.00	-2,589.39	3,084.90	411,503.58	628,891.73	32.1309863	-104.0504871	2,602.83	0.00	0.00	0.00
16,300.00	90.00	359.75	7,500.00	-2,489.39	3,084.46	411,603.58	628,891.29	32.1312612	-104.0504877	2,502.83	0.00	0.00	0.00
16,400.00	90.00	359.75	7,500.00	-2,389.39	3,084.02	411,703.58	628,890.85	32.1315361	-104.0504882	2,402.83	0.00	0.00	0.00
16,500.00	90.00	359.75	7,500.00	-2,289.40	3,083.58	411,803.57	628,890.41	32.1318109	-104.0504888	2,302.83	0.00	0.00	0.00
16,600.00	90.00	359.75	7,500.00	-2,189.40	3,083.14	411,903.57	628,889.97	32.1320858	-104.0504894	2,202.83	0.00	0.00	0.00
16,700.00	90.00	359.75	7,500.00	-2,089.40	3,082.69	412,003.57	628,889.52	32.1323607	-104.0504900	2,102.83	0.00	0.00	0.00
16,800.00	90.00	359.75	7,500.00	-1,989.40	3,082.25	412,103.57	628,889.08	32.1326356	-104.0504906	2,002.83	0.00	0.00	0.00
16,900.00	90.00	359.75	7,500.00	-1,889.40	3,081.81	412,203.57	628,888.64	32.1329105	-104.0504912	1,902.83	0.00	0.00	0.00
17,000.00	90.00	359.75	7,500.00	-1,789.40	3,081.37	412,303.57	628,888.20	32.1331854	-104.0504917	1,802.83	0.00	0.00	0.00
17,100.00	90.00	359.75	7,500.00	-1,689.40	3,080.92	412,403.57	628,887.75	32.1334603	-104.0504923	1,702.83	0.00	0.00	0.00
17,200.00	90.00	359.75	7,500.00	-1,589.40	3,080.48	412,503.57	628,887.31	32.1337352	-104.0504929	1,602.83	0.00	0.00	0.00
17,300.00	90.00	359.75	7,500.00	-1,489.40	3,080.04	412,603.57	628,886.87	32.1340101	-104.0504935	1,502.83	0.00	0.00	0.00
17,400.00	90.00	359.75	7,500.00	-1,389.40	3,079.60	412,703.57	628,886.43	32.1342850	-104.0504941	1,402.83	0.00	0.00	0.00
17,500.00	90.00	359.75	7,500.00	-1,289.41	3,079.15	412,803.56	628,885.98	32.1345599	-104.0504946	1,302.83	0.00	0.00	0.00
17,600.00	90.00	359.75	7,500.00	-1,189.41	3,078.71	412,903.56	628,885.54	32.1348348	-104.0504952	1,202.83	0.00	0.00	0.00
17,700.00	90.00	359.75	7,500.00	-1,089.41	3,078.27	413,003.56	628,885.10	32.1351096	-104.0504958	1,102.83	0.00	0.00	0.00
17,800.00	90.00	359.75	7,500.00	-989.41	3,077.83	413,103.56	628,884.66	32.1353845	-104.0504964	1,002.83	0.00	0.00	0.00
17,900.00	90.00	359.75	7,500.00	-889.41	3,077.38	413,203.56	628,884.21	32.1356594	-104.0504970	902.83	0.00	0.00	0.00
18,000.00	90.00	359.75	7,500.00	-789.41	3,076.94	413,303.56	628,883.77	32.1359343	-104.0504975	802.83	0.00	0.00	0.00
18,100.00	90.00	359.75	7,500.00	-689.41	3,076.50	413,403.56	628,883.33	32.1362092	-104.0504981	702.83	0.00	0.00	0.00
18,200.00	90.00	359.75	7,500.00	-589.41	3,076.06	413,503.56	628,882.89	32.1364841	-104.0504987	602.83	0.00	0.00	0.00
18,300.00	90.00	359.75	7,500.00	-489.41	3,075.62	413,603.56	628,882.45	32.1367590	-104.0504993	502.83	0.00	0.00	0.00
18,400.00	90.00	359.75	7,500.00	-389.41	3,075.17	413,703.56	628,882.00	32.1370339	-104.0504999	402.83	0.00	0.00	0.00
18,461.64	90.00	359.75	7,500.00	-327.78	3,074.90	413,765.19	628,881.73	32.1372033	-104.0505002	341.19	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Well:	Riverbend 14 Federal Com 1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Crv Peak 2 (Riverbend 1	0.00	0.00	0.00	-5,447.05	2,271.42	408,645.92	628,078.25	32.1231367	-104.0531390
- plan misses target center by 5901.67usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LTP (Riverbend 14 Fede	0.00	0.00	0.00	-327.78	3,074.90	413,765.19	628,881.73	32.1372033	-104.0505002
- plan misses target center by 3092.32usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
FTP (Riverbend 14 Fede	0.00	0.00	0.00	-347.47	1,420.30	413,745.50	627,227.13	32.1371610	-104.0558459
- plan misses target center by 1462.19usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LPP (Riverbend 14 Fede	0.00	0.00	0.00	-1,556.50	3,080.14	412,536.47	628,886.97	32.1338256	-104.0504937
- plan misses target center by 3451.08usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
NPZ 2 (Riverbend 14 Fe	0.00	0.00	0.00	-5,279.20	2,765.49	408,813.77	628,572.32	32.1235945	-104.0515417
- plan misses target center by 5959.69usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LP Crv 2 (Riverbend 14	0.00	0.00	0.00	-4,613.96	3,093.20	409,479.01	628,900.03	32.1254208	-104.0504775
- plan misses target center by 5554.86usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
KOP 2 (Riverbend 14 Fe	0.00	0.00	0.00	-4,625.53	1,438.60	409,467.44	627,245.43	32.1254009	-104.0558224
- plan misses target center by 4844.08usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
NPZ 1 (Riverbend 14 Fe	0.00	0.00	0.00	-5,286.12	1,775.59	408,806.85	627,582.42	32.1235826	-104.0547393
- plan misses target center by 5576.36usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,092.76	1,091.00	Rustler			
1,581.28	1,570.00	Top Salt			
2,394.93	2,362.00	Base Salt/Lamar			
2,588.07	2,550.00	Top Delaware Sands/Bell Canyon			
3,486.99	3,425.00	Cherry Canyon			
4,824.58	4,727.00	Brushy Canyon			
5,793.36	5,670.00	Lower Brushy Canyon			
6,475.51	6,334.00	Bone Spring Lime			
7,451.80	7,260.00	1st Bone Spring Sand			
11,581.32	7,500.00	1st Bone Spring Sand LZ			

Checked By: _____ Approved By: _____ Date: _____

Released to Imaging: 12/5/2025 11:04:51 AM
Received by OCD: 11/21/2025 2:37:57 PM

COTERRA

Coterra Energy
Site: Riverbend 14 Federal Com
Well: Riverbend 14 Federal Com 1H
Wellbore: OH
Design: Plan 1
Rig: Cacuts 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

total

SHL

RKB Elevation: 2935' GL + 23 @ 2958.00usft (Cacuts 156)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	414092.97	625806.83	32.1381261	-104.0604317	

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	
750.00	5.00	104.32	749.68	-2.70	10.56	2.00	104.32	2.74	
1001.27	5.00	104.32	1000.00	-8.11	31.78	0.00	0.00	8.25	
1414.82	13.25	108.76	1407.97	-27.85	94.22	2.00	7.09	28.26	
7115.01	13.25	108.76	6956.48	-448.00	1331.00	0.00	0.00	453.80	
7825.96	75.00	179.76	7460.95	-873.62	1421.49	10.00	74.87	879.82	
8125.95	90.00	179.74	7499.99	-1170.20	1422.79	5.00	-0.09	1176.40	
11581.32	90.00	179.74	7500.00	-4625.53	1438.60	0.00	0.00	4631.76	
14105.32	90.00	4.32	7500.00	-4683.85	3085.05	6.95	-90.00	4697.27	
14333.98	90.00	359.75	7500.00	-4455.40	3093.16	2.00	-90.00	4468.85	
18461.63	90.00	359.75	7500.00	-327.78	3074.90	0.00	0.00	341.19	

FORMATION TOP DETAILS

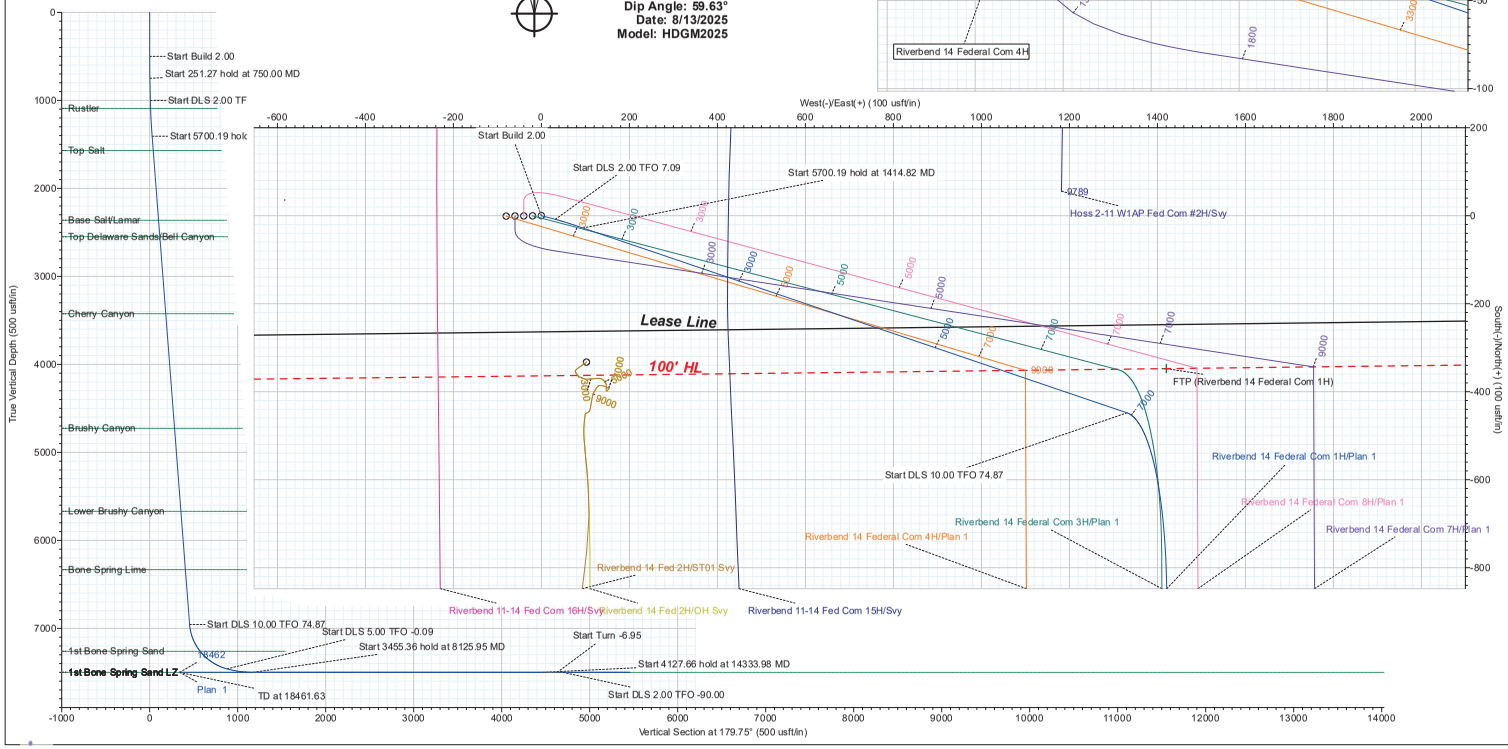
TVDPath	MDPath	Formation
1091.00	1092.76	Rustler
1570.00	1581.28	Top Salt
2362.00	2394.93	Base Salt/Lamar
2550.00	2588.07	Top Delaware Sands/Bell Canyon
3425.00	3486.99	Cherry Canyon
4727.00	4824.58	Brushy Canyon
5670.00	5793.36	Lower Brushy Canyon
6334.00	6475.51	Bone Spring Lime
7260.00	7451.80	1st Bone Spring Sand
7500.00	11581.32	1st Bone Spring Sand LZ

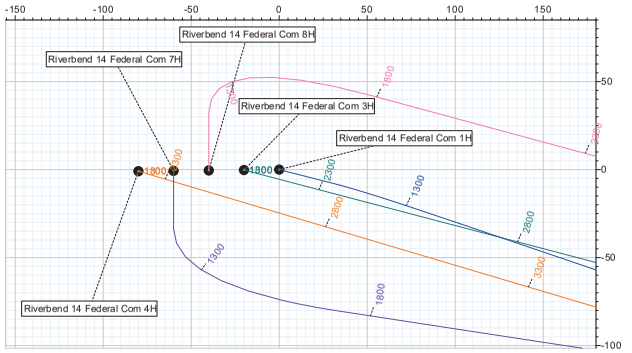
WELLBORE TARGET DETAILS

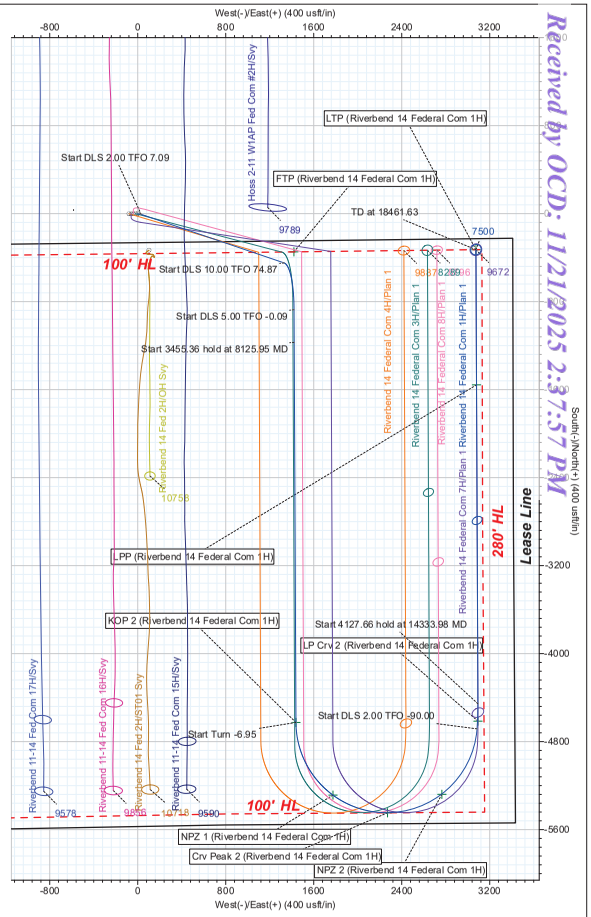
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Crv Peak 2 (Riverbend 14 Federal Com 1H)	0.00	-5447.05	2271.42	408645.92	628078.25	32.1231366	-104.0531391
FTP (Riverbend 14 Federal Com 1H)	0.00	-347.47	1420.30	413745.50	627227.13	32.1371610	-104.0558459
KOP 2 (Riverbend 14 Federal Com 1H)	0.00	-4625.53	1438.60	409467.44	627245.43	32.1254008	-104.0558224
LP Crv 2 (Riverbend 14 Federal Com 1H)	0.00	-4613.96	3093.20	409479.01	628900.03	32.1254208	-104.0504775
LPP (Riverbend 14 Federal Com 1H)	0.00	-1556.50	3080.14	412536.47	628886.97	32.1338256	-104.0504937
LTP (Riverbend 14 Federal Com 1H)	0.00	-327.78	3074.90	413765.19	628881.73	32.1372033	-104.0505002
NPZ 1 (Riverbend 14 Federal Com 1H)	0.00	-5286.12	1775.59	408806.85	627582.42	32.1235825	-104.0547394
NPZ 2 (Riverbend 14 Federal Com 1H)	0.00	-5279.20	2765.49	408813.77	628572.32	32.1235945	-104.0515417

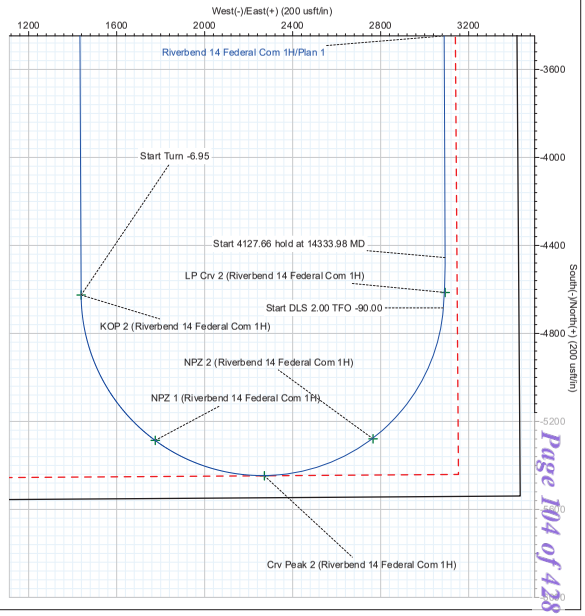
Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.29°

Magnetic Field
Strength: 47167.1nT
Dip Angle: 59.63°
Date: 8/13/2025
Model: HDGM2025









Coterra Energy

Eddy County, NM (NAD 83)
Riverbend 14 Federal Com
Riverbend 14 Federal Com 1H

OH
Plan 1

Total Directional
"Driven by TOTAL performance"

Anticollision Report

Minimum Magnetic Interference Warning level is 50' center to center

16 June, 2025

Total Report Version 1.60

COMPASS 5000.16 Build 97

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Well	Riverbend 14 Federal Com 1H						
Well Position	**+N/-S**	0.00 usft	**Northing:**	414,092.97	usft	**Latitude:**	32.1381262
	+E/-W	0.00 usft	**Easting:**	625,806.83	usft	**Longitude:**	-104.0604317
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		usft	**Ground Level:**	2,935.00 usft
Grid Convergence:		0.15 °					

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

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	18,461.64	Plan 1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Offset Listing

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

Summary

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Riverbend 11-14						
Riverbend 11-14 Fed Com 15H - OH - Svy	11,442.50	18,565.74	2,314.23	2,196.88	19.72	CC
Riverbend 11-14 Fed Com 15H - OH - Svy	11,600.00	18,726.74	2,314.62	2,194.96	19.34	ES
Riverbend 11-14 Fed Com 15H - OH - Svy	12,200.00	19,267.73	2,418.09	2,288.70	18.69	SF
Riverbend 11-14 Fed Com 16H - OH - Svy	10,915.97	18,246.90	2,873.90	2,763.33	25.99	CC
Riverbend 11-14 Fed Com 16H - OH - Svy	11,100.00	18,404.00	2,874.96	2,762.01	25.45	ES
Riverbend 11-14 Fed Com 16H - OH - Svy	12,100.00	19,449.94	2,979.15	2,850.96	23.24	SF
Riverbend 11-14 Fed Com 17H - OH - Svy	11,612.15	18,931.18	3,105.30	2,983.81	25.56	CC, ES
Riverbend 11-14 Fed Com 17H - OH - Svy	12,000.00	19,229.23	3,176.09	3,049.58	25.10	SF
Riverbend 11-14 Fed Com 7H - OH - Svy	11,588.65	19,152.00	3,760.38	3,640.26	31.31	CC
Riverbend 11-14 Fed Com 7H - OH - Svy	11,600.00	19,154.70	3,760.45	3,640.23	31.28	ES
Riverbend 11-14 Fed Com 7H - OH - Svy	11,950.00	19,409.88	3,825.59	3,701.05	30.72	SF
Riverbend 14 Fed 2H - OH - OH Svy	0.00	0.00	348.12			
Riverbend 14 Fed 2H - OH - OH Svy	1,808.20	1,788.69	323.15	310.65	25.85	CC
Riverbend 14 Fed 2H - OH - OH Svy	1,900.00	1,879.17	323.67	310.50	24.57	ES
Riverbend 14 Fed 2H - ST01 - ST01 Svy	0.00	0.00	348.12			
Riverbend 14 Fed 2H - ST01 - ST01 Svy	1,808.20	1,788.69	323.15	310.65	25.85	CC
Riverbend 14 Fed 2H - ST01 - ST01 Svy	1,900.00	1,879.17	323.67	310.50	24.57	ES
Riverbend 12-13 Offsets						
Malaga 13 DM Fed Com 1H - OH - Svy	13,950.00	12,983.02	1,125.27	1,016.84	10.38	SF
Malaga 13 DM Fed Com 1H - OH - Svy	14,105.32	12,821.00	1,116.04	1,009.24	10.45	ES
Malaga 13 DM Fed Com 1H - OH - Svy	14,128.08	12,803.55	1,115.92	1,009.28	10.46	CC
Riverbend 14 Federal Com						
Hoss 2-11 W1AP Fed Com #2H - OH - Svy	7,768.52	19,907.00	2,514.56	2,417.23	25.83	CC, ES
Hoss 2-11 W1AP Fed Com #2H - OH - Svy	18,461.64	19,907.00	2,994.81	2,795.54	15.03	SF
Riverbend 14 Federal Com 3H - OH - Plan 1	500.00	500.00	19.99	16.57	5.85	CC, ES
Riverbend 14 Federal Com 3H - OH - Plan 1	7,150.00	7,188.20	246.51	193.02	4.61	SF
Riverbend 14 Federal Com 4H - OH - Plan 1	500.00	501.00	79.98	76.55	23.36	CC, ES
Riverbend 14 Federal Com 4H - OH - Plan 1	7,200.00	7,256.93	362.14	308.25	6.72	SF
Riverbend 14 Federal Com 7H - OH - Plan 1	416.33	417.33	59.98	57.16	21.24	CC
Riverbend 14 Federal Com 7H - OH - Plan 1	4,200.00	4,225.32	70.45	39.31	2.26	ES
Riverbend 14 Federal Com 7H - OH - Plan 1	4,500.00	4,524.95	74.33	40.81	2.22	SF
Riverbend 14 Federal Com 8H - OH - Plan 1	500.00	500.00	39.98	36.56	11.69	CC, ES
Riverbend 14 Federal Com 8H - OH - Plan 1	7,115.01	7,141.44	166.56	112.90	3.10	SF

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	27.96	27.96	0.00	0.04	1.73	4,645.30	140.35	4,647.43				
100.00	100.00	114.54	114.54	0.28	0.18	1.73	4,645.52	140.11	4,647.66	4,647.21	0.46	N/A	
200.00	200.00	201.14	201.13	0.63	0.32	1.72	4,645.99	139.58	4,648.19	4,647.24	0.95	4,870.776	
300.00	300.00	316.75	316.73	0.99	0.73	1.70	4,646.63	138.26	4,648.72	4,646.99	1.73	2,692.557	
400.00	400.00	428.88	428.84	1.35	1.14	1.68	4,646.80	136.10	4,648.80	4,646.31	2.49	1,870.186	
500.00	500.00	508.27	508.22	1.71	1.42	1.66	4,647.04	134.46	4,649.05	4,645.92	3.13	1,486.048	
600.00	599.98	581.47	581.40	2.06	1.68	-102.67	4,647.71	133.13	4,650.27	4,646.53	3.74	1,243.652	
700.00	699.84	672.44	672.35	2.40	2.01	-102.70	4,648.82	131.41	4,652.61	4,648.20	4.41	1,055.339	
750.00	749.68	717.29	717.19	2.58	2.17	-102.73	4,649.45	130.62	4,654.14	4,649.40	4.74	981.227	
800.00	799.49	800.83	800.72	2.75	2.46	-102.83	4,650.47	129.67	4,655.77	4,650.56	5.21	893.839	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
900.00	899.11	919.41	919.28	3.10	2.86	-102.93	4,650.72	131.17	4,657.92	4,651.96	5.96	781.748	
1,000.00	998.73	1,027.04	1,026.89	3.46	3.22	-103.02	4,650.89	133.40	4,660.09	4,653.41	6.68	698.134	
1,001.27	1,000.00	1,028.45	1,028.30	3.46	3.22	-103.02	4,650.89	133.44	4,660.11	4,653.43	6.68	697.170	
1,100.00	1,098.18	1,131.83	1,131.66	3.81	3.58	-105.07	4,650.86	135.64	4,662.67	4,655.28	7.39	631.025	
1,200.00	1,197.22	1,224.92	1,224.73	4.18	3.90	-106.26	4,650.88	137.23	4,666.51	4,658.44	8.07	578.302	
1,300.00	1,295.71	1,331.10	1,330.90	4.54	4.27	-107.07	4,650.86	139.11	4,671.56	4,662.76	8.80	530.822	
1,400.00	1,393.53	1,429.08	1,428.85	4.91	4.61	-107.66	4,650.74	141.29	4,677.77	4,668.27	9.51	491.923	
1,414.82	1,407.97	1,441.69	1,441.45	4.97	4.65	-107.73	4,650.73	141.60	4,678.81	4,669.21	9.61	486.957	
1,500.00	1,490.88	1,519.60	1,519.34	5.28	4.92	-107.92	4,650.77	143.60	4,685.00	4,674.80	10.20	459.479	
1,600.00	1,588.22	1,630.37	1,630.10	5.66	5.31	-108.19	4,650.66	145.15	4,692.18	4,681.22	10.96	428.243	
1,700.00	1,685.56	1,718.24	1,717.97	6.04	5.62	-108.43	4,650.49	145.45	4,699.37	4,687.73	11.64	403.777	
1,800.00	1,782.90	1,788.59	1,788.31	6.42	5.86	-108.61	4,650.70	145.65	4,707.13	4,694.87	12.26	383.913	
1,900.00	1,880.24	1,877.80	1,877.53	6.80	6.18	-108.84	4,651.29	145.83	4,715.34	4,702.38	12.95	364.027	
2,000.00	1,977.58	2,036.67	2,036.37	7.18	6.74	-109.23	4,651.41	148.45	4,723.03	4,709.13	13.89	339.922	
2,100.00	2,074.91	2,284.57	2,284.16	7.57	7.60	-109.85	4,645.74	151.17	4,728.29	4,713.16	15.13	312.435	
2,200.00	2,172.25	2,348.00	2,347.54	7.95	7.82	-110.01	4,643.40	151.94	4,732.62	4,716.88	15.74	300.726	
2,300.00	2,269.59	2,407.14	2,406.64	8.34	8.03	-110.15	4,641.68	153.14	4,737.80	4,721.47	16.33	290.164	
2,400.00	2,366.93	2,442.00	2,441.49	8.73	8.15	-110.23	4,641.09	154.02	4,744.24	4,727.41	16.83	281.859	
2,500.00	2,464.27	2,494.00	2,493.47	9.11	8.34	-110.35	4,640.95	155.16	4,751.99	4,734.59	17.40	273.166	
2,600.00	2,561.61	2,558.85	2,558.31	9.50	8.57	-110.51	4,641.44	156.34	4,760.78	4,742.77	18.01	264.405	
2,700.00	2,658.95	2,642.00	2,641.44	9.89	8.86	-110.70	4,642.20	158.04	4,769.88	4,751.20	18.68	255.327	
2,800.00	2,756.29	2,736.00	2,735.41	10.28	9.19	-110.92	4,643.32	160.03	4,779.33	4,759.93	19.40	246.390	
2,900.00	2,853.63	2,781.53	2,780.91	10.67	9.36	-111.02	4,644.18	161.28	4,789.45	4,769.52	19.93	240.263	
3,000.00	2,950.97	2,831.00	2,830.32	11.06	9.53	-111.12	4,645.62	163.33	4,800.62	4,780.13	20.48	234.368	
3,100.00	3,048.31	2,906.97	2,906.10	11.45	9.80	-111.26	4,648.46	167.88	4,812.55	4,791.42	21.13	227.750	
3,200.00	3,145.64	2,999.72	2,998.48	11.84	10.13	-111.41	4,652.36	175.14	4,824.87	4,803.03	21.84	220.897	
3,300.00	3,242.98	3,086.06	3,084.40	12.23	10.44	-111.54	4,656.13	182.80	4,837.34	4,814.81	22.53	214.711	
3,400.00	3,340.32	3,170.53	3,168.33	12.62	10.74	-111.65	4,660.16	191.42	4,850.12	4,826.91	23.21	208.967	
3,500.00	3,437.66	3,321.55	3,318.24	13.01	11.27	-111.83	4,667.06	208.37	4,862.76	4,838.61	24.15	201.377	
3,600.00	3,535.00	3,432.75	3,428.53	13.40	11.67	-111.95	4,671.27	221.85	4,874.49	4,849.56	24.93	195.502	
3,700.00	3,632.34	3,530.47	3,525.58	13.79	12.02	-112.06	4,674.82	232.70	4,886.17	4,860.50	25.67	190.362	
3,800.00	3,729.68	3,624.55	3,619.11	14.19	12.36	-112.18	4,678.22	242.32	4,897.92	4,871.53	26.39	185.605	
3,900.00	3,827.02	3,728.62	3,722.31	14.58	12.73	-112.29	4,682.24	255.11	4,909.78	4,882.63	27.15	180.843	
4,000.00	3,924.36	3,836.55	3,829.13	14.97	13.12	-112.38	4,686.22	269.98	4,921.37	4,893.44	27.93	176.231	
4,100.00	4,021.70	3,967.68	3,958.97	15.36	13.59	-112.50	4,690.68	287.81	4,932.72	4,903.93	28.79	171.319	
4,200.00	4,119.04	4,071.48	4,061.93	15.75	13.97	-112.60	4,693.63	300.66	4,943.61	4,914.06	29.55	167.273	
4,300.00	4,216.37	4,168.04	4,157.86	16.15	14.32	-112.72	4,696.27	311.36	4,954.51	4,924.22	30.29	163.581	
4,400.00	4,313.71	4,268.28	4,257.53	16.54	14.68	-112.84	4,698.92	321.61	4,965.41	4,934.37	31.04	159.991	
4,500.00	4,411.05	4,363.09	4,351.84	16.93	15.02	-112.96	4,701.46	331.02	4,976.39	4,944.63	31.76	156.675	
4,600.00	4,508.39	4,458.95	4,447.21	17.32	15.37	-113.09	4,704.03	340.45	4,987.41	4,954.92	32.49	153.490	
4,700.00	4,605.73	4,544.98	4,532.78	17.72	15.68	-113.20	4,706.53	348.93	4,998.67	4,965.49	33.19	150.625	
4,800.00	4,703.07	14,325.72	9,670.97	18.11	50.84	175.94	-253.33	424.01	4,952.22	4,901.89	50.33	98.392	
4,900.00	4,800.41	14,330.21	9,671.01	18.50	50.87	175.77	-257.81	424.14	4,857.11	4,806.47	50.64	95.917	
5,000.00	4,897.75	14,334.85	9,671.05	18.90	50.89	175.60	-262.45	424.29	4,762.19	4,711.24	50.96	93.457	
5,100.00	4,995.09	14,339.64	9,671.10	19.29	50.92	175.43	-267.24	424.46	4,667.48	4,616.19	51.28	91.013	
5,200.00	5,092.43	14,366.00	9,671.45	19.68	51.07	174.47	-293.57	425.53	4,573.07	4,521.30	51.77	88.340	
5,300.00	5,189.77	14,366.00	9,671.45	20.07	51.07	174.47	-293.57	425.53	4,478.76	4,426.68	52.08	85.994	
5,400.00	5,287.10	14,366.00	9,671.45	20.47	51.07	174.47	-293.57	425.53	4,384.70	4,332.29	52.41	83.664	
5,500.00	5,384.44	14,366.00	9,671.45	20.86	51.07	174.47	-293.57	425.53	4,290.91	4,238.16	52.75	81.350	
5,600.00	5,481.78	14,368.08	9,671.49	21.25	51.08	174.39	-295.65	425.62	4,197.40	4,144.29	53.11	79.031	
5,700.00	5,579.12	14,410.42	9,671.99	21.65	51.33	172.83	-337.95	427.49	4,104.15	4,050.39	53.76	76.346	
5,800.00	5,676.46	14,445.60	9,672.13	22.04	51.54	171.52	-373.09	428.91	4,011.13	3,956.76	54.37	73.774	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,900.00	5,773.80	14,475.27	9,672.06	22.43	51.71	170.40	-402.75	430.01	3,918.39	3,863.43	54.96	71.293	
6,000.00	5,871.14	14,439.27	9,671.97	22.83	51.50	171.75	-366.78	428.59	3,825.97	3,770.85	55.13	69.404	
6,100.00	5,968.48	14,448.23	9,672.03	23.22	51.55	171.42	-375.73	428.96	3,734.03	3,678.42	55.61	67.147	
6,200.00	6,065.82	14,457.19	9,672.10	23.61	51.60	171.08	-384.68	429.34	3,642.49	3,586.38	56.11	64.916	
6,300.00	6,163.16	14,481.50	9,672.12	24.01	51.75	170.16	-408.97	430.29	3,551.28	3,494.55	56.73	62.594	
6,400.00	6,260.50	14,486.64	9,672.13	24.40	51.78	169.96	-414.11	430.50	3,460.61	3,403.36	57.25	60.447	
6,500.00	6,357.83	14,491.94	9,672.15	24.79	51.81	169.76	-419.40	430.72	3,370.45	3,312.66	57.79	58.323	
6,600.00	6,455.17	14,497.41	9,672.18	25.19	51.84	169.56	-424.86	430.96	3,280.85	3,222.50	58.35	56.224	
6,700.00	6,552.51	14,503.05	9,672.22	25.58	51.87	169.34	-430.50	431.20	3,191.86	3,132.91	58.94	54.151	
6,800.00	6,649.85	14,508.88	9,672.27	25.98	51.91	169.12	-436.32	431.46	3,103.51	3,043.95	59.56	52.105	
6,900.00	6,747.19	14,514.89	9,672.32	26.37	51.94	168.89	-442.33	431.73	3,015.88	2,955.67	60.21	50.087	
7,000.00	6,844.53	14,521.11	9,672.39	26.76	51.98	168.65	-448.54	432.02	2,929.02	2,868.12	60.90	48.098	
7,100.00	6,941.87	14,527.54	9,672.46	27.16	52.02	168.41	-454.96	432.32	2,843.00	2,781.38	61.62	46.141	
7,115.01	6,956.48	14,528.52	9,672.48	27.22	52.02	168.37	-455.94	432.37	2,830.17	2,768.44	61.73	45.850	
7,150.00	6,990.45	14,531.56	9,672.52	27.35	52.04	160.72	-458.98	432.51	2,800.38	2,738.39	61.99	45.173	
7,200.00	7,038.53	14,538.47	9,672.62	27.55	52.08	153.80	-465.88	432.85	2,758.36	2,695.96	62.40	44.208	
7,250.00	7,085.72	14,553.00	9,672.86	27.75	52.16	150.47	-480.39	433.58	2,717.26	2,654.41	62.85	43.233	
7,300.00	7,131.67	14,571.95	9,673.18	27.94	52.28	149.33	-499.31	434.54	2,677.37	2,614.03	63.34	42.271	
7,350.00	7,176.02	14,606.84	9,673.62	28.13	52.48	149.05	-534.15	436.26	2,638.87	2,574.94	63.93	41.278	
7,400.00	7,218.44	14,646.77	9,673.86	28.32	52.72	149.35	-574.04	438.14	2,601.98	2,537.43	64.55	40.308	
7,450.00	7,258.60	14,676.67	9,673.93	28.50	52.90	150.17	-603.91	439.46	2,566.97	2,501.86	65.11	39.425	
7,500.00	7,296.21	14,710.15	9,673.93	28.67	53.10	151.03	-637.36	440.83	2,534.15	2,468.46	65.69	38.580	
7,550.00	7,330.97	14,740.00	9,673.89	28.84	53.27	151.94	-667.19	441.94	2,503.72	2,437.49	66.23	37.802	
7,600.00	7,362.62	14,768.04	9,673.93	28.99	53.44	152.80	-695.22	442.96	2,476.02	2,409.27	66.76	37.089	
7,650.00	7,390.91	14,793.93	9,674.18	29.15	53.60	153.57	-721.08	443.95	2,451.37	2,384.11	67.26	36.447	
7,700.00	7,415.64	14,834.00	9,674.94	29.30	53.84	154.16	-761.11	445.57	2,429.99	2,362.16	67.83	35.825	
7,750.00	7,436.62	14,856.70	9,675.53	29.44	53.98	154.74	-783.78	446.52	2,411.89	2,343.61	68.28	35.325	
7,800.00	7,453.68	14,898.17	9,676.72	29.57	54.23	155.16	-825.19	448.31	2,397.18	2,328.36	68.82	34.832	
7,825.96	7,460.95	14,920.13	9,677.40	29.64	54.36	155.34	-847.13	449.29	2,390.90	2,321.80	69.09	34.603	
7,900.00	7,477.79	14,987.53	9,678.81	29.84	54.77	155.53	-914.49	450.43	2,376.52	2,306.61	69.92	33.990	
8,000.00	7,493.08	15,153.05	9,675.54	30.11	55.77	155.35	-1,079.80	443.10	2,362.87	2,291.25	71.61	32.994	
8,100.00	7,499.70	15,237.52	9,673.09	30.38	56.28	155.36	-1,164.20	440.92	2,355.53	2,282.83	72.69	32.404	
8,125.95	7,499.99	15,251.65	9,672.85	30.45	56.37	155.35	-1,178.32	440.59	2,355.15	2,282.24	72.91	32.302	
8,133.96	7,499.99	15,256.01	9,672.79	30.47	56.40	155.35	-1,182.68	440.49	2,355.15	2,282.17	72.98	32.272	
8,200.00	7,499.99	15,303.00	9,672.61	30.65	56.68	155.32	-1,229.66	439.36	2,355.62	2,282.01	73.61	32.002	
8,300.00	7,499.99	15,431.58	9,671.94	30.94	57.48	155.23	-1,358.20	436.35	2,356.46	2,281.47	74.99	31.425	
8,400.00	7,499.99	15,548.88	9,669.33	31.24	58.20	155.15	-1,475.46	434.51	2,355.22	2,278.91	76.31	30.865	
8,500.00	7,499.99	15,638.41	9,667.57	31.56	58.76	155.09	-1,564.96	432.97	2,354.35	2,276.90	77.45	30.399	
8,600.00	7,500.00	15,738.12	9,666.37	31.88	59.39	155.05	-1,664.65	432.32	2,353.73	2,275.06	78.67	29.920	
8,685.21	7,500.00	15,807.47	9,665.56	32.17	59.83	155.03	-1,734.00	431.77	2,353.31	2,273.70	79.61	29.561	
8,700.00	7,500.00	15,817.42	9,665.48	32.22	59.89	155.02	-1,743.94	431.60	2,353.32	2,273.56	79.76	29.505	
8,800.00	7,500.00	15,929.84	9,664.76	32.58	60.60	154.95	-1,856.33	429.08	2,353.96	2,272.84	81.11	29.020	
8,900.00	7,500.00	16,037.64	9,663.49	32.94	61.28	154.92	-1,964.12	428.90	2,353.13	2,270.70	82.43	28.546	
9,000.00	7,500.00	16,123.27	9,662.62	33.32	61.83	154.88	-2,049.74	428.17	2,352.77	2,269.16	83.61	28.140	
9,006.16	7,500.00	16,128.50	9,662.56	33.34	61.86	154.88	-2,054.97	428.08	2,352.77	2,269.09	83.68	28.115	
9,100.00	7,500.00	16,187.94	9,662.06	33.71	62.24	154.83	-2,114.39	426.47	2,353.36	2,268.71	84.65	27.800	
9,200.00	7,500.00	16,378.49	9,660.69	34.11	63.47	154.73	-2,304.80	423.39	2,354.22	2,267.59	86.63	27.175	
9,300.00	7,500.00	16,465.45	9,659.41	34.52	64.04	154.76	-2,391.73	425.39	2,352.11	2,264.27	87.84	26.778	
9,400.00	7,500.00	16,555.47	9,658.21	34.94	64.63	154.76	-2,481.73	426.51	2,350.56	2,261.48	89.08	26.387	
9,500.00	7,500.00	16,656.90	9,656.57	35.37	65.29	154.74	-2,583.15	426.81	2,349.16	2,258.74	90.42	25.979	
9,600.00	7,500.00	16,740.16	9,655.81	35.81	65.84	154.76	-2,666.40	428.34	2,347.81	2,256.18	91.63	25.622	
9,643.49	7,500.00	16,766.07	9,655.69	36.01	66.01	154.75	-2,692.30	428.42	2,347.65	2,255.56	92.09	25.494	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.00	7,500.00	16,805.00	9,655.59	36.26	66.26	154.74	-2,731.23	427.87	2,347.93	2,255.21	92.72	25.323	
9,800.00	7,500.00	16,986.60	9,653.37	36.73	67.46	154.77	-2,912.74	431.35	2,345.60	2,250.94	94.66	24.780	
9,900.00	7,500.00	17,077.07	9,652.20	37.20	68.07	154.82	-3,003.14	434.69	2,343.06	2,247.13	95.93	24.424	
10,000.00	7,500.00	17,192.77	9,650.15	37.68	68.84	154.86	-3,118.77	437.97	2,340.44	2,243.05	97.40	24.030	
10,100.00	7,500.00	17,291.57	9,648.00	38.17	69.51	154.90	-3,217.51	440.98	2,337.38	2,238.63	98.76	23.668	
10,200.00	7,500.00	17,369.00	9,646.87	38.66	70.03	154.93	-3,294.89	443.37	2,334.94	2,234.97	99.97	23.357	
10,300.00	7,500.00	17,488.78	9,645.17	39.17	70.84	154.98	-3,414.60	447.07	2,332.54	2,231.06	101.48	22.985	
10,400.00	7,500.00	17,581.84	9,643.52	39.68	71.47	155.03	-3,507.58	450.48	2,329.59	2,226.77	102.81	22.659	
10,500.00	7,500.00	17,651.00	9,642.88	40.20	71.94	155.05	-3,576.72	452.04	2,327.91	2,223.92	103.98	22.387	
10,600.00	7,500.00	17,745.29	9,642.16	40.73	72.57	155.05	-3,671.00	452.74	2,327.09	2,221.73	105.35	22.089	
10,700.00	7,500.00	17,859.74	9,640.43	41.26	73.35	155.03	-3,785.44	453.27	2,325.70	2,218.82	106.88	21.760	
10,800.00	7,500.00	17,953.54	9,638.96	41.80	73.99	155.02	-3,879.23	453.60	2,324.32	2,216.05	108.26	21.470	
10,900.00	7,500.00	18,061.34	9,636.98	42.35	74.73	154.99	-3,987.01	453.71	2,322.80	2,213.05	109.75	21.164	
11,000.00	7,500.00	18,162.19	9,634.87	42.91	75.42	154.96	-4,087.84	453.67	2,321.11	2,209.91	111.20	20.873	
11,100.00	7,500.00	18,275.37	9,632.20	43.47	76.19	154.91	-4,200.98	453.33	2,319.31	2,206.57	112.75	20.571	
11,200.00	7,500.00	18,366.80	9,629.13	44.03	76.82	154.84	-4,292.36	452.16	2,317.03	2,202.88	114.14	20.299	
11,300.00	7,500.00	18,455.59	9,627.40	44.61	77.43	154.81	-4,381.13	452.06	2,315.49	2,199.98	115.51	20.046	
11,400.00	7,500.00	18,536.61	9,625.41	45.18	77.99	154.75	-4,462.11	450.46	2,314.35	2,197.52	116.83	19.810	
11,442.50	7,500.00	18,565.74	9,625.07	45.43	78.19	154.73	-4,491.23	450.07	2,314.23	2,196.88	117.34	19.722	CC
11,500.00	7,500.00	18,614.20	9,625.04	45.77	78.52	154.72	-4,539.69	449.83	2,314.41	2,196.31	118.11	19.596	
11,581.32	7,500.00	18,705.64	9,625.17	46.24	79.15	154.72	-4,631.13	450.16	2,314.55	2,195.18	119.37	19.390	
11,582.32	7,500.00	18,706.77	9,625.17	46.25	79.16	154.72	-4,632.26	450.16	2,314.55	2,195.17	119.38	19.387	
11,600.00	7,500.00	18,726.74	9,625.13	46.35	79.30	154.72	-4,652.23	450.21	2,314.62	2,194.96	119.66	19.343	ES
11,650.00	7,500.00	18,783.09	9,624.74	46.65	79.69	154.70	-4,708.58	450.03	2,315.61	2,195.15	120.46	19.223	
11,700.00	7,500.00	18,836.90	9,624.29	46.96	80.06	154.69	-4,762.38	449.97	2,317.79	2,196.53	121.27	19.113	
11,750.00	7,500.00	18,885.26	9,623.98	47.27	80.40	154.72	-4,810.75	450.28	2,321.21	2,199.17	122.04	19.020	
11,800.00	7,500.00	18,923.07	9,623.77	47.59	80.66	154.82	-4,848.55	450.33	2,326.12	2,203.36	122.76	18.949	
11,850.00	7,500.00	18,966.00	9,623.57	47.91	80.96	154.94	-4,891.48	449.95	2,332.60	2,209.07	123.53	18.882	
11,900.00	7,500.00	19,024.16	9,623.03	48.23	81.36	154.94	-4,949.63	449.08	2,340.41	2,215.96	124.46	18.805	
11,950.00	7,500.00	19,061.00	9,622.38	48.56	81.62	155.17	-4,986.46	448.50	2,349.34	2,224.12	125.22	18.761	
12,000.00	7,500.00	19,100.24	9,621.86	48.88	81.89	155.43	-5,025.69	447.95	2,359.80	2,233.78	126.02	18.726	
12,050.00	7,500.00	19,126.13	9,621.84	49.20	82.07	155.92	-5,051.58	447.70	2,372.07	2,245.36	126.71	18.721	
12,100.00	7,500.00	19,155.00	9,622.11	49.52	82.27	156.47	-5,080.45	447.51	2,386.07	2,258.64	127.43	18.725	
12,150.00	7,500.00	19,207.91	9,622.60	49.83	82.64	156.74	-5,133.35	447.22	2,401.53	2,273.16	128.38	18.707	
12,200.00	7,500.00	19,267.73	9,622.47	50.14	83.06	156.94	-5,193.17	446.76	2,418.09	2,288.70	129.39	18.688	SF
12,250.00	7,500.00	19,289.47	9,622.30	50.44	83.21	157.81	-5,214.91	446.26	2,436.18	2,306.10	130.08	18.729	
12,300.00	7,500.00	19,307.00	9,622.17	50.74	83.33	158.87	-5,232.43	445.93	2,455.77	2,325.05	130.72	18.787	
12,350.00	7,500.00	19,307.00	9,622.17	51.02	83.33	160.41	-5,232.43	445.93	2,477.14	2,345.96	131.18	18.884	
12,400.00	7,500.00	19,307.00	9,622.17	51.30	83.33	162.12	-5,232.43	445.93	2,500.23	2,368.61	131.62	18.995	
12,450.00	7,500.00	19,307.00	9,622.17	51.56	83.33	164.01	-5,232.43	445.93	2,524.91	2,392.86	132.05	19.121	
12,500.00	7,500.00	19,307.00	9,622.17	51.81	83.33	166.07	-5,232.43	445.93	2,551.05	2,418.58	132.46	19.259	
12,550.00	7,500.00	19,307.00	9,622.17	52.05	83.33	168.29	-5,232.43	445.93	2,578.49	2,445.63	132.86	19.407	
12,600.00	7,500.00	19,307.00	9,622.17	52.27	83.33	170.68	-5,232.43	445.93	2,607.11	2,473.86	133.25	19.565	
12,650.00	7,500.00	19,307.00	9,622.17	52.48	83.33	173.21	-5,232.43	445.93	2,636.77	2,503.14	133.63	19.732	
12,700.00	7,500.00	19,307.00	9,622.17	52.67	83.33	175.88	-5,232.43	445.93	2,667.31	2,533.31	134.00	19.905	
12,750.00	7,500.00	19,307.00	9,622.17	52.84	83.33	178.67	-5,232.43	445.93	2,698.60	2,564.24	134.36	20.085	
12,800.00	7,500.00	19,307.00	9,622.17	53.00	83.33	-178.45	-5,232.43	445.93	2,730.50	2,595.79	134.72	20.268	
12,850.00	7,500.00	19,307.00	9,622.17	53.14	83.33	-175.50	-5,232.43	445.93	2,762.88	2,627.82	135.07	20.456	
12,900.00	7,500.00	19,307.00	9,622.17	53.27	83.33	-172.51	-5,232.43	445.93	2,795.60	2,660.19	135.41	20.646	
12,950.00	7,500.00	19,307.00	9,622.17	53.37	83.33	-169.51	-5,232.43	445.93	2,828.53	2,692.79	135.74	20.838	
13,000.00	7,500.00	19,307.00	9,622.17	53.46	83.33	-166.52	-5,232.43	445.93	2,861.54	2,725.47	136.07	21.030	
13,050.00	7,500.00	19,307.00	9,622.17	53.53	83.33	-163.58	-5,232.43	445.93	2,894.52	2,758.12	136.39	21.222	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,100.00	7,500.00	19,307.00	9,622.17	53.58	83.33	-160.70	-5,232.43	445.93	2,927.34	2,790.63	136.70	21.414	
13,150.00	7,500.00	19,307.00	9,622.17	53.62	83.33	-157.91	-5,232.43	445.93	2,959.89	2,822.88	137.01	21.604	
13,200.00	7,500.00	19,307.00	9,622.17	53.63	83.33	-155.23	-5,232.43	445.93	2,992.06	2,854.76	137.30	21.792	
13,250.00	7,500.00	19,307.00	9,622.17	53.63	83.33	-152.67	-5,232.43	445.93	3,023.75	2,886.16	137.59	21.977	
13,300.00	7,500.00	19,307.00	9,622.17	53.62	83.33	-150.25	-5,232.43	445.93	3,054.86	2,917.00	137.86	22.159	
13,350.00	7,500.00	19,307.00	9,622.17	53.58	83.33	-147.96	-5,232.43	445.93	3,085.29	2,947.16	138.12	22.337	
13,400.00	7,500.00	19,307.00	9,622.17	53.54	83.33	-145.82	-5,232.43	445.93	3,114.95	2,976.58	138.37	22.511	
13,450.00	7,500.00	19,298.74	9,622.23	53.48	83.27	-143.70	-5,224.17	446.09	3,143.75	3,005.23	138.52	22.695	
13,500.00	7,500.00	19,268.00	9,622.47	53.40	83.06	-141.49	-5,193.44	446.67	3,171.35	3,032.93	138.42	22.911	
13,550.00	7,500.00	19,246.51	9,622.60	53.32	82.91	-139.59	-5,171.96	446.94	3,197.65	3,059.23	138.42	23.101	
13,600.00	7,500.00	19,189.80	9,622.49	53.22	82.51	-137.53	-5,115.24	447.33	3,222.39	3,084.35	138.04	23.343	
13,650.00	7,500.00	19,155.00	9,622.11	53.12	82.27	-135.91	-5,080.45	447.51	3,245.29	3,107.39	137.90	23.534	
13,700.00	7,500.00	19,115.52	9,621.82	53.00	82.00	-134.45	-5,040.97	447.79	3,266.44	3,128.73	137.71	23.720	
13,750.00	7,500.00	19,086.00	9,621.99	52.88	81.79	-133.24	-5,011.46	448.13	3,285.90	3,148.28	137.62	23.877	
13,800.00	7,500.00	19,049.36	9,622.61	52.75	81.53	-132.15	-4,974.82	448.69	3,303.57	3,166.10	137.46	24.033	
13,850.00	7,500.00	18,983.96	9,623.46	52.61	81.08	-131.10	-4,909.44	449.69	3,319.04	3,182.03	137.01	24.224	
13,900.00	7,500.00	18,945.43	9,623.66	52.48	80.81	-130.33	-4,870.91	450.19	3,332.24	3,195.39	136.85	24.350	
13,950.00	7,500.00	18,916.86	9,623.80	52.33	80.62	-129.73	-4,842.34	450.34	3,343.48	3,206.69	136.78	24.443	
14,000.00	7,500.00	18,872.00	9,624.05	52.19	80.30	-129.20	-4,797.48	450.18	3,352.80	3,216.23	136.56	24.551	
14,050.00	7,500.00	18,837.37	9,624.28	52.05	80.06	-128.83	-4,762.85	449.97	3,359.90	3,223.45	136.45	24.624	
14,100.00	7,500.00	18,767.97	9,624.88	51.90	79.58	-128.56	-4,693.46	450.13	3,364.45	3,228.45	136.00	24.739	
14,105.32	7,500.00	18,763.29	9,624.92	51.89	79.55	-128.54	-4,688.78	450.15	3,364.78	3,228.81	135.98	24.745	
14,200.00	7,500.00	18,676.55	9,625.14	51.63	78.95	-128.43	-4,602.04	449.98	3,369.44	3,233.86	135.58	24.852	
14,300.00	7,500.00	18,552.95	9,625.18	51.35	78.10	-128.38	-4,478.45	450.21	3,371.22	3,236.36	134.86	24.997	
14,333.98	7,500.00	18,521.52	9,625.69	51.26	77.88	-128.39	-4,447.02	450.73	3,371.17	3,236.44	134.73	25.022	
14,400.00	7,500.00	18,471.98	9,627.00	51.09	77.54	-128.42	-4,397.51	451.83	3,370.89	3,236.30	134.59	25.046	
14,409.67	7,500.00	18,465.85	9,627.15	51.07	77.50	-128.42	-4,391.38	451.93	3,370.89	3,236.31	134.58	25.048	
14,500.00	7,500.00	18,403.00	9,628.41	50.84	77.07	-128.44	-4,328.55	452.21	3,371.34	3,236.91	134.42	25.080	
14,600.00	7,500.00	18,298.34	9,631.39	50.59	76.35	-128.50	-4,223.94	453.00	3,372.18	3,238.24	133.94	25.177	
14,700.00	7,500.00	18,206.86	9,633.95	50.35	75.72	-128.54	-4,132.50	453.67	3,373.00	3,239.41	133.59	25.249	
14,800.00	7,500.00	18,106.99	9,636.04	50.12	75.04	-128.58	-4,032.65	453.70	3,373.93	3,240.77	133.16	25.336	
14,900.00	7,500.00	18,005.23	9,638.08	49.90	74.34	-128.61	-3,930.91	453.67	3,374.86	3,242.12	132.74	25.425	
15,000.00	7,500.00	17,905.61	9,639.68	49.69	73.66	-128.63	-3,831.30	453.47	3,375.68	3,243.34	132.34	25.508	
15,100.00	7,500.00	17,810.63	9,641.26	49.48	73.02	-128.65	-3,736.34	452.98	3,376.77	3,244.78	131.99	25.584	
15,200.00	7,500.00	17,699.12	9,642.61	49.28	72.26	-128.67	-3,624.84	452.53	3,377.48	3,245.98	131.50	25.684	
15,300.00	7,500.00	17,651.00	9,642.88	49.09	71.94	-128.67	-3,576.72	452.04	3,378.62	3,247.06	131.56	25.681	
15,400.00	7,500.00	17,557.00	9,643.94	48.91	71.30	-128.66	-3,482.76	449.59	3,381.01	3,249.78	131.24	25.763	
15,500.00	7,500.00	17,491.56	9,645.13	48.74	70.86	-128.66	-3,417.38	447.17	3,384.43	3,253.29	131.14	25.807	
15,600.00	7,500.00	17,369.00	9,646.87	48.57	70.03	-128.64	-3,294.89	443.37	3,387.37	3,256.77	130.60	25.936	
15,700.00	7,500.00	17,292.16	9,647.99	48.42	69.51	-128.64	-3,218.09	441.00	3,390.38	3,259.94	130.43	25.994	
15,800.00	7,500.00	17,176.42	9,650.53	48.27	68.73	-128.64	-3,102.44	437.57	3,393.73	3,263.76	129.97	26.111	
15,900.00	7,500.00	17,077.92	9,652.19	48.13	68.07	-128.64	-3,003.99	434.71	3,396.71	3,267.06	129.65	26.199	
16,000.00	7,500.00	16,998.00	9,653.21	48.01	67.54	-128.62	-2,924.13	431.80	3,400.01	3,270.54	129.47	26.260	
16,100.00	7,500.00	16,764.40	9,655.70	47.89	66.00	-128.63	-2,690.63	428.43	3,401.18	3,273.05	128.13	26.545	
16,117.16	7,500.00	16,757.75	9,655.73	47.87	65.95	-128.63	-2,683.98	428.44	3,401.15	3,272.99	128.17	26.537	
16,200.00	7,500.00	16,711.00	9,656.00	47.78	65.64	-128.63	-2,637.24	427.80	3,401.85	3,273.64	128.21	26.534	
16,300.00	7,500.00	16,600.53	9,657.49	47.68	64.92	-128.64	-2,526.79	426.66	3,403.19	3,275.35	127.84	26.620	
16,400.00	7,500.00	16,523.00	9,658.65	47.59	64.41	-128.66	-2,449.27	426.23	3,404.23	3,276.49	127.74	26.650	
16,500.00	7,500.00	16,448.02	9,659.65	47.51	63.92	-128.66	-2,374.30	425.04	3,405.97	3,278.31	127.65	26.681	
16,600.00	7,500.00	16,180.33	9,662.09	47.44	62.20	-128.73	-2,106.78	426.75	3,405.76	3,279.65	126.11	27.006	
16,700.00	7,500.00	16,147.00	9,662.36	47.39	61.98	-128.74	-2,073.47	427.71	3,403.87	3,277.46	126.41	26.927	
16,800.00	7,500.00	16,053.00	9,663.33	47.34	61.38	-128.77	-1,979.48	428.86	3,403.21	3,276.98	126.23	26.960	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,821.65	7,500.00	16,053.00	9,663.33	47.33	61.38	-128.77	-1,979.48	428.86	3,403.14	3,276.79	126.35	26.935	
16,900.00	7,500.00	15,988.28	9,664.04	47.31	60.97	-128.78	-1,914.77	428.96	3,403.32	3,277.04	126.27	26.952	
17,000.00	7,500.00	15,825.24	9,665.41	47.29	59.94	-128.84	-1,751.77	431.45	3,402.00	3,276.40	125.60	27.086	
17,100.00	7,500.00	15,772.00	9,665.95	47.28	59.60	-128.85	-1,698.53	432.14	3,401.27	3,275.52	125.75	27.049	
17,200.00	7,500.00	15,670.63	9,667.14	47.28	58.96	-128.88	-1,597.17	432.68	3,401.24	3,275.70	125.54	27.093	
17,300.00	7,500.00	15,561.18	9,669.05	47.30	58.28	-128.93	-1,487.75	434.29	3,400.83	3,275.54	125.30	27.142	
17,355.04	7,500.00	15,519.48	9,670.01	47.31	58.02	-128.95	-1,446.06	434.99	3,400.73	3,275.43	125.30	27.141	
17,400.00	7,500.00	15,469.19	9,671.24	47.33	57.71	-128.97	-1,395.80	435.69	3,400.78	3,275.59	125.19	27.165	
17,500.00	7,500.00	15,303.00	9,672.61	47.37	56.68	-129.04	-1,229.66	439.36	3,398.96	3,274.40	124.56	27.287	
17,600.00	7,500.00	15,241.60	9,673.01	47.43	56.31	-129.06	-1,168.28	440.82	3,397.29	3,272.60	124.69	27.247	
17,700.00	7,500.00	15,078.66	9,677.54	47.50	55.32	-129.19	-1,005.50	446.34	3,396.48	3,272.35	124.13	27.361	
17,800.00	7,500.00	15,022.00	9,678.74	47.59	54.98	-129.24	-948.93	449.13	3,393.95	3,269.63	124.32	27.299	
17,900.00	7,500.00	14,928.00	9,677.66	47.69	54.41	-129.23	-854.98	449.65	3,392.45	3,268.23	124.22	27.310	
17,946.05	7,500.00	14,928.00	9,677.66	47.74	54.41	-129.23	-854.98	449.65	3,392.14	3,267.67	124.47	27.253	
18,000.00	7,500.00	14,912.39	9,677.16	47.81	54.31	-129.22	-839.40	448.94	3,392.53	3,267.90	124.63	27.220	
18,100.00	7,500.00	14,834.00	9,674.94	47.94	53.84	-129.16	-761.11	445.57	3,393.80	3,269.21	124.59	27.239	
18,200.00	7,500.00	14,740.00	9,673.89	48.08	53.27	-129.11	-667.19	441.94	3,395.73	3,271.26	124.47	27.281	
18,300.00	7,500.00	14,672.79	9,673.92	48.25	52.87	-129.08	-600.03	439.30	3,398.37	3,273.85	124.53	27.290	
18,400.00	7,500.00	14,559.35	9,672.98	48.42	52.20	-129.02	-486.73	433.90	3,401.22	3,276.92	124.30	27.364	
18,461.64	7,500.00	14,500.89	9,672.20	48.54	51.86	-128.98	-428.34	431.11	3,402.78	3,278.56	124.23	27.392	
18,462.14	7,500.00	14,500.42	9,672.20	49.47	51.86	-128.98	-427.87	431.09	3,402.80	3,278.55	124.25	27.387	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	29.59	29.59	0.00	0.05	1.48	4,644.90	120.37	4,646.46				
100.00	100.00	122.07	122.07	0.28	0.19	1.48	4,645.03	120.19	4,646.59	4,646.12	0.47	9,889.354	
200.00	200.00	229.58	229.58	0.63	0.42	1.48	4,645.32	119.70	4,646.86	4,645.81	1.05	4,405.383	
300.00	300.00	405.57	405.56	0.99	1.04	1.46	4,643.88	118.40	4,645.97	4,643.93	2.03	2,285.016	
400.00	400.00	506.30	506.27	1.35	1.39	1.46	4,642.20	118.31	4,644.30	4,641.56	2.74	1,692.761	
500.00	500.00	592.01	591.97	1.71	1.69	1.47	4,640.99	118.73	4,642.90	4,639.50	3.40	1,365.015	
600.00	599.98	720.00	719.93	2.06	2.14	-102.89	4,638.83	119.73	4,641.60	4,637.40	4.20	1,105.174	
685.76	685.63	785.02	784.95	2.35	2.37	-102.94	4,637.67	119.93	4,641.05	4,636.33	4.73	982.178	
700.00	699.84	794.04	793.96	2.40	2.41	-102.94	4,637.55	119.93	4,641.07	4,636.26	4.81	965.628	
750.00	749.68	839.00	838.92	2.58	2.57	-102.98	4,637.07	119.78	4,641.41	4,636.27	5.14	902.991	
800.00	799.49	858.17	858.09	2.75	2.63	-103.01	4,636.95	119.67	4,641.98	4,636.60	5.38	862.438	
900.00	899.11	933.00	932.92	3.10	2.90	-103.09	4,636.83	119.09	4,643.75	4,637.75	6.00	774.288	
1,000.00	998.73	1,023.33	1,023.24	3.46	3.21	-103.20	4,637.03	118.11	4,645.92	4,639.26	6.67	696.879	
1,001.27	1,000.00	1,024.64	1,024.56	3.46	3.22	-103.20	4,637.03	118.10	4,645.95	4,639.28	6.68	695.933	
1,100.00	1,098.18	1,150.81	1,150.71	3.81	3.66	-105.33	4,636.85	116.57	4,648.35	4,640.88	7.47	621.937	
1,200.00	1,197.22	1,265.91	1,265.80	4.18	4.07	-106.60	4,636.18	115.27	4,651.61	4,643.37	8.24	564.245	
1,300.00	1,295.71	1,379.47	1,379.35	4.54	4.48	-107.48	4,635.09	114.08	4,655.78	4,646.77	9.01	516.571	
1,400.00	1,393.53	1,483.77	1,483.64	4.91	4.85	-108.14	4,633.86	113.16	4,661.04	4,651.29	9.75	477.908	
1,414.82	1,407.97	1,498.91	1,498.78	4.97	4.91	-108.23	4,633.67	113.03	4,661.92	4,652.06	9.86	472.709	
1,500.00	1,490.88	1,545.44	1,545.31	5.28	5.07	-108.36	4,633.26	112.70	4,667.44	4,657.10	10.34	451.363	
1,600.00	1,588.22	1,594.00	1,593.87	5.66	5.24	-108.49	4,633.23	112.52	4,674.85	4,663.97	10.88	429.566	
1,700.00	1,685.56	1,663.17	1,663.03	6.04	5.48	-108.68	4,633.74	112.30	4,683.13	4,671.64	11.49	407.483	
1,800.00	1,782.90	1,734.50	1,734.36	6.42	5.72	-108.87	4,634.81	111.89	4,692.20	4,680.08	12.11	387.394	
1,900.00	1,880.24	1,814.25	1,814.09	6.80	6.00	-109.10	4,636.32	110.87	4,701.79	4,689.02	12.76	368.378	
2,000.00	1,977.58	1,911.82	1,911.62	7.18	6.33	-109.37	4,638.43	109.14	4,711.76	4,698.28	13.48	349.547	
2,100.00	2,074.91	2,097.03	2,096.72	7.57	6.97	-109.81	4,640.95	113.39	4,721.09	4,706.59	14.50	325.679	
2,200.00	2,172.25	2,329.57	2,329.12	7.95	7.76	-110.34	4,637.33	120.34	4,726.90	4,711.22	15.68	301.492	
2,300.00	2,269.59	2,402.80	2,402.32	8.34	8.02	-110.51	4,635.58	121.87	4,732.60	4,716.28	16.32	290.068	
2,400.00	2,366.93	2,473.99	2,473.49	8.73	8.27	-110.69	4,634.31	122.48	4,738.99	4,722.04	16.95	279.640	
2,500.00	2,464.27	2,559.70	2,559.19	9.11	8.57	-110.91	4,633.10	122.63	4,745.87	4,728.24	17.63	269.181	
2,600.00	2,561.61	2,650.39	2,649.87	9.50	8.89	-111.14	4,631.97	122.89	4,753.01	4,734.67	18.33	259.259	
2,700.00	2,658.95	2,738.98	2,738.46	9.89	9.20	-111.37	4,631.03	123.27	4,760.40	4,741.37	19.03	250.182	
2,800.00	2,756.29	2,845.73	2,845.20	10.28	9.58	-111.64	4,629.85	123.67	4,767.85	4,748.06	19.79	240.942	
2,900.00	2,853.63	2,937.79	2,937.26	10.67	9.90	-111.87	4,628.84	123.98	4,775.40	4,754.90	20.50	232.977	
3,000.00	2,950.97	3,041.51	3,040.97	11.06	10.27	-112.13	4,627.66	124.33	4,783.01	4,761.76	21.25	225.095	
3,100.00	3,048.31	3,138.21	3,137.66	11.45	10.61	-112.38	4,626.45	124.03	4,790.64	4,768.66	21.98	217.993	
3,200.00	3,145.64	3,232.20	3,231.63	11.84	10.95	-112.64	4,625.28	122.46	4,798.47	4,775.77	22.69	211.449	
3,300.00	3,242.98	3,331.71	3,331.07	12.23	11.30	-112.93	4,623.81	119.06	4,806.31	4,782.88	23.43	205.140	
3,400.00	3,340.32	3,411.11	3,410.38	12.62	11.58	-113.18	4,622.71	115.47	4,814.48	4,790.39	24.09	199.836	
3,500.00	3,437.66	3,492.00	3,491.14	13.01	11.86	-113.43	4,621.94	111.00	4,823.24	4,798.48	24.76	194.805	
3,600.00	3,535.00	3,562.31	3,561.30	13.40	12.11	-113.66	4,621.50	106.43	4,832.54	4,807.16	25.39	190.357	
3,700.00	3,632.34	3,634.25	3,633.04	13.79	12.36	-113.90	4,621.22	101.15	4,842.35	4,816.33	26.02	186.108	
3,800.00	3,729.68	3,680.00	3,678.65	14.19	12.52	-114.06	4,621.24	97.48	4,852.93	4,826.38	26.55	182.771	
3,900.00	3,827.02	3,755.47	3,753.81	14.58	12.79	-114.32	4,621.71	90.64	4,864.26	4,837.07	27.19	178.872	
4,000.00	3,924.36	3,817.35	3,815.33	14.97	13.00	-114.55	4,622.54	84.09	4,876.54	4,848.76	27.78	175.521	
4,100.00	4,021.70	3,885.56	3,883.03	15.36	13.24	-114.81	4,623.75	75.84	4,889.60	4,861.20	28.39	172.201	
4,200.00	4,119.04	3,964.00	3,960.71	15.75	13.52	-115.12	4,625.20	65.08	4,903.15	4,874.11	29.04	168.815	
4,300.00	4,216.37	4,040.01	4,035.83	16.15	13.78	-115.43	4,626.70	53.59	4,917.24	4,887.56	29.68	165.651	
4,400.00	4,313.71	4,101.04	4,096.06	16.54	14.00	-115.69	4,628.17	43.86	4,932.09	4,901.83	30.26	162.970	
4,500.00	4,411.05	4,153.00	4,147.31	16.93	14.18	-115.91	4,629.75	35.41	4,947.83	4,917.02	30.80	160.621	
4,600.00	4,508.39	4,225.28	4,218.56	17.32	14.43	-116.21	4,632.37	23.54	4,964.36	4,932.93	31.43	157.973	
4,700.00	4,605.73	4,316.54	4,308.48	17.72	14.75	-116.59	4,636.01	8.38	4,981.47	4,949.35	32.12	155.072	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,703.07	4,410.95	4,401.46	18.11	15.08	-116.99	4,639.61	-7.58	4,998.73	4,965.89	32.84	152.234	
4,900.00	4,800.41	4,500.04	4,489.17	18.50	15.40	-117.36	4,642.98	-22.83	5,016.25	4,982.72	33.53	149.620	
5,000.00	4,897.75	4,595.73	4,583.31	18.90	15.74	-117.76	4,646.55	-39.60	5,034.04	4,999.80	34.25	146.998	
5,100.00	4,995.09	14,510.06	9,897.58	19.29	51.26	172.18	-231.68	-236.51	5,000.39	4,948.22	52.17	95.850	
5,200.00	5,092.43	14,515.84	9,897.68	19.68	51.30	172.03	-237.46	-236.45	4,910.78	4,858.22	52.56	93.440	
5,300.00	5,189.77	14,521.73	9,897.78	20.07	51.33	171.88	-243.34	-236.38	4,821.56	4,768.61	52.95	91.051	
5,400.00	5,287.10	14,527.73	9,897.90	20.47	51.36	171.73	-249.35	-236.31	4,732.76	4,679.40	53.37	88.684	
5,500.00	5,384.44	14,533.86	9,898.01	20.86	51.40	171.57	-255.47	-236.23	4,644.41	4,590.62	53.79	86.339	
5,600.00	5,481.78	14,553.00	9,898.42	21.25	51.51	171.08	-274.61	-235.98	4,556.55	4,502.23	54.32	83.887	
5,700.00	5,579.12	14,553.00	9,898.42	21.65	51.51	171.08	-274.61	-235.98	4,469.14	4,414.41	54.73	81.656	
5,800.00	5,676.46	14,553.00	9,898.42	22.04	51.51	171.08	-274.61	-235.98	4,382.26	4,327.10	55.16	79.446	
5,900.00	5,773.80	14,593.72	9,899.16	22.43	51.74	170.03	-315.32	-235.48	4,295.92	4,240.04	55.87	76.889	
6,000.00	5,871.14	14,627.62	9,899.51	22.83	51.94	169.16	-349.22	-235.16	4,210.09	4,153.54	56.56	74.442	
6,100.00	5,968.48	14,656.28	9,899.62	23.22	52.10	168.41	-377.88	-234.96	4,124.84	4,067.62	57.22	72.085	
6,200.00	6,065.82	14,624.60	9,899.33	23.61	51.92	169.23	-346.20	-235.24	4,040.21	3,982.70	57.51	70.250	
6,300.00	6,163.16	14,668.22	9,899.67	24.01	52.17	168.10	-389.81	-234.85	3,956.36	3,898.05	58.31	67.847	
6,400.00	6,260.50	14,677.60	9,899.69	24.40	52.22	167.85	-399.19	-234.77	3,873.21	3,814.30	58.91	65.747	
6,500.00	6,357.83	14,687.00	9,899.72	24.79	52.28	167.61	-408.59	-234.68	3,790.86	3,731.33	59.53	63.679	
6,600.00	6,455.17	14,696.41	9,899.74	25.19	52.33	167.36	-418.00	-234.57	3,709.35	3,649.18	60.17	61.644	
6,700.00	6,552.51	14,705.85	9,899.76	25.58	52.39	167.12	-427.44	-234.47	3,628.75	3,567.91	60.84	59.644	
6,800.00	6,649.85	14,715.30	9,899.78	25.98	52.44	166.87	-436.89	-234.35	3,549.12	3,487.58	61.53	57.679	
6,900.00	6,747.19	14,724.77	9,899.80	26.37	52.50	166.62	-446.36	-234.22	3,470.52	3,408.26	62.25	55.750	
7,000.00	6,844.53	14,734.27	9,899.82	26.76	52.55	166.37	-455.86	-234.09	3,393.02	3,330.02	63.00	53.860	
7,100.00	6,941.87	14,743.78	9,899.84	27.16	52.61	166.12	-465.37	-233.95	3,316.70	3,252.93	63.77	52.009	
7,115.01	6,956.48	14,745.21	9,899.84	27.22	52.61	166.08	-466.80	-233.93	3,305.36	3,241.47	63.89	51.734	
7,150.00	6,990.45	14,748.62	9,899.85	27.35	52.63	156.81	-470.21	-233.87	3,279.05	3,214.88	64.17	51.098	
7,200.00	7,038.53	14,758.32	9,899.87	27.55	52.69	147.80	-479.90	-233.72	3,241.97	3,177.36	64.61	50.179	
7,250.00	7,085.72	14,772.55	9,899.91	27.75	52.77	142.91	-494.13	-233.48	3,205.73	3,140.65	65.08	49.260	
7,300.00	7,131.67	14,791.23	9,899.95	27.94	52.88	140.62	-512.81	-233.15	3,170.59	3,105.01	65.58	48.349	
7,350.00	7,176.02	14,814.22	9,900.02	28.13	53.02	139.79	-535.80	-232.71	3,136.78	3,070.67	66.11	47.451	
7,400.00	7,218.44	14,834.00	9,900.09	28.32	53.13	139.89	-555.57	-232.30	3,104.53	3,037.92	66.61	46.606	
7,450.00	7,258.60	14,863.17	9,900.18	28.50	53.30	140.28	-584.74	-231.76	3,074.07	3,006.89	67.18	45.762	
7,500.00	7,296.21	14,889.42	9,900.24	28.67	53.46	140.96	-610.98	-231.40	3,045.64	2,977.92	67.72	44.976	
7,550.00	7,330.97	14,918.15	9,900.29	28.84	53.62	141.69	-639.71	-231.16	3,019.42	2,951.15	68.27	44.230	
7,600.00	7,362.62	14,954.71	9,900.33	28.99	53.84	142.35	-676.28	-231.01	2,995.56	2,926.71	68.86	43.505	
7,650.00	7,390.91	14,996.53	9,900.37	29.15	54.09	142.94	-718.10	-230.83	2,974.14	2,904.67	69.47	42.815	
7,700.00	7,415.64	15,041.39	9,900.42	29.30	54.35	143.49	-762.95	-230.60	2,955.25	2,885.17	70.08	42.171	
7,750.00	7,436.62	15,089.21	9,900.52	29.44	54.64	143.98	-810.77	-230.24	2,938.98	2,868.29	70.69	41.575	
7,800.00	7,453.68	15,138.79	9,900.65	29.57	54.93	144.41	-860.35	-229.73	2,925.40	2,854.10	71.29	41.032	
7,825.96	7,460.95	15,165.08	9,900.70	29.64	55.09	144.61	-886.63	-229.47	2,919.43	2,847.83	71.60	40.773	
7,900.00	7,477.79	15,238.55	9,900.73	29.84	55.53	144.84	-960.10	-228.77	2,905.37	2,832.91	72.46	40.095	
8,000.00	7,493.08	15,340.74	9,900.79	30.11	56.14	145.04	-1,062.29	-227.82	2,892.57	2,818.95	73.62	39.292	
8,100.00	7,499.70	15,440.56	9,900.59	30.38	56.75	145.14	-1,162.10	-226.79	2,886.64	2,811.91	74.73	38.629	
8,125.95	7,499.99	15,462.56	9,900.52	30.45	56.88	145.15	-1,184.11	-226.68	2,886.32	2,811.33	74.99	38.491	
8,200.00	7,499.99	15,536.36	9,900.27	30.65	57.33	145.14	-1,257.90	-226.54	2,886.22	2,810.43	75.80	38.078	
8,300.00	7,499.99	15,647.12	9,900.05	30.94	58.01	145.14	-1,368.66	-225.56	2,885.82	2,808.84	76.98	37.490	
8,400.00	7,499.99	15,753.08	9,899.61	31.24	58.67	145.15	-1,474.61	-224.39	2,885.11	2,806.97	78.14	36.921	
8,500.00	7,499.99	15,874.19	9,898.93	31.56	59.42	145.17	-1,595.70	-222.46	2,884.01	2,804.58	79.42	36.312	
8,600.00	7,500.00	15,942.69	9,898.68	31.88	59.85	145.17	-1,664.19	-221.46	2,883.10	2,802.71	80.39	35.865	
8,700.00	7,500.00	16,053.62	9,898.31	32.22	60.55	145.18	-1,775.12	-220.54	2,882.63	2,800.99	81.64	35.309	
8,800.00	7,500.00	16,133.83	9,898.13	32.58	61.06	145.18	-1,855.33	-219.79	2,882.17	2,799.46	82.71	34.846	
8,900.00	7,500.00	16,254.42	9,898.04	32.94	61.82	145.19	-1,975.90	-218.43	2,881.74	2,797.68	84.06	34.284	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	16,351.69	9,897.77	33.32	62.44	145.21	-2,073.17	-217.01	2,880.93	2,795.67	85.26	33.789	
9,100.00	7,500.00	16,445.01	9,897.33	33.71	63.04	145.21	-2,166.48	-216.21	2,880.32	2,793.86	86.46	33.314	
9,200.00	7,500.00	16,539.38	9,896.95	34.11	63.65	145.21	-2,260.85	-215.54	2,879.85	2,792.17	87.68	32.847	
9,243.79	7,500.00	16,574.09	9,896.80	34.29	63.87	145.20	-2,295.55	-215.51	2,879.78	2,791.61	88.17	32.662	
9,300.00	7,500.00	16,622.30	9,896.53	34.52	64.18	145.19	-2,343.77	-215.84	2,879.89	2,791.06	88.83	32.420	
9,400.00	7,500.00	16,751.54	9,895.45	34.94	65.02	145.18	-2,472.99	-215.42	2,879.17	2,788.86	90.31	31.881	
9,500.00	7,500.00	16,852.61	9,894.95	35.37	65.68	145.17	-2,574.07	-214.85	2,878.70	2,787.09	91.61	31.424	
9,600.00	7,500.00	16,954.96	9,893.86	35.81	66.35	145.17	-2,676.41	-214.01	2,877.62	2,784.69	92.92	30.967	
9,700.00	7,500.00	17,033.65	9,893.51	36.26	66.86	145.16	-2,755.09	-213.46	2,877.12	2,783.03	94.09	30.580	
9,714.75	7,500.00	17,045.06	9,893.45	36.33	66.94	145.16	-2,766.50	-213.48	2,877.11	2,782.85	94.26	30.524	
9,800.00	7,500.00	17,136.10	9,892.78	36.73	67.53	145.13	-2,857.54	-214.29	2,877.26	2,781.83	95.43	30.151	
9,900.00	7,500.00	17,269.25	9,891.50	37.20	68.41	145.12	-2,990.67	-213.49	2,876.36	2,779.37	96.99	29.657	
10,000.00	7,500.00	17,370.00	9,890.04	37.68	69.08	145.12	-3,091.40	-212.33	2,874.77	2,776.44	98.33	29.236	
10,075.04	7,500.00	17,400.73	9,889.38	38.04	69.29	145.10	-3,122.12	-212.69	2,874.25	2,775.22	99.03	29.024	
10,100.00	7,500.00	17,409.49	9,889.19	38.17	69.34	145.09	-3,130.88	-212.98	2,874.36	2,775.11	99.25	28.961	
10,200.00	7,500.00	17,464.00	9,888.11	38.66	69.70	145.02	-3,185.24	-216.65	2,876.40	2,776.12	100.28	28.684	
10,300.00	7,500.00	17,526.01	9,887.84	39.17	70.12	144.94	-3,247.09	-221.00	2,879.98	2,778.62	101.36	28.413	
10,400.00	7,500.00	17,766.00	9,890.01	39.68	71.72	144.98	-3,487.01	-218.97	2,879.53	2,775.78	103.75	27.754	
10,500.00	7,500.00	17,868.15	9,890.26	40.20	72.41	145.03	-3,589.11	-215.84	2,878.23	2,773.11	105.13	27.379	
10,600.00	7,500.00	17,963.20	9,890.80	40.73	73.05	145.08	-3,684.10	-212.64	2,877.03	2,770.58	106.45	27.026	
10,700.00	7,500.00	18,068.66	9,891.14	41.26	73.77	145.12	-3,789.52	-209.61	2,875.91	2,768.05	107.86	26.663	
10,800.00	7,500.00	18,162.05	9,891.22	41.80	74.40	145.16	-3,882.87	-206.69	2,874.49	2,765.30	109.19	26.325	
10,900.00	7,500.00	18,234.30	9,891.56	42.35	74.89	145.19	-3,955.10	-205.17	2,873.91	2,763.54	110.38	26.037	
10,915.97	7,500.00	18,246.90	9,891.62	42.44	74.98	145.19	-3,967.70	-205.01	2,873.90	2,763.33	110.58	25.990	CC
11,000.00	7,500.00	18,310.00	9,891.89	42.91	75.41	145.19	-4,030.79	-204.65	2,874.17	2,762.57	111.59	25.756	
11,100.00	7,500.00	18,404.00	9,892.43	43.47	76.05	145.19	-4,124.79	-204.77	2,874.96	2,762.01	112.95	25.453	ES
11,200.00	7,500.00	18,475.57	9,892.94	44.03	76.54	145.18	-4,196.35	-205.54	2,876.42	2,762.28	114.14	25.201	
11,300.00	7,500.00	18,565.45	9,893.18	44.61	77.15	145.13	-4,286.19	-208.25	2,878.61	2,763.13	115.48	24.927	
11,400.00	7,500.00	18,691.84	9,892.09	45.18	78.01	145.02	-4,412.47	-213.49	2,880.57	2,763.44	117.13	24.593	
11,500.00	7,500.00	18,795.85	9,891.46	45.77	78.72	144.96	-4,516.42	-216.73	2,882.14	2,763.54	118.60	24.302	
11,581.32	7,500.00	18,873.00	9,891.13	46.24	79.25	144.92	-4,593.56	-218.37	2,883.06	2,763.33	119.73	24.080	
11,600.00	7,500.00	18,895.08	9,891.08	46.35	79.41	144.93	-4,615.64	-218.78	2,883.39	2,763.37	120.03	24.023	
11,650.00	7,500.00	18,933.88	9,890.99	46.65	79.67	145.00	-4,654.42	-219.70	2,885.64	2,764.97	120.66	23.915	
11,700.00	7,500.00	18,983.02	9,890.89	46.96	80.01	145.12	-4,703.54	-221.16	2,889.80	2,768.40	121.40	23.804	
11,750.00	7,500.00	19,073.68	9,890.37	47.27	80.64	145.14	-4,794.18	-222.70	2,895.15	2,772.67	122.48	23.638	
11,800.00	7,500.00	19,110.87	9,890.15	47.59	80.89	145.39	-4,831.37	-223.11	2,902.12	2,778.97	123.14	23.567	
11,850.00	7,500.00	19,156.00	9,890.00	47.91	81.20	145.67	-4,876.49	-223.78	2,911.03	2,787.16	123.88	23.499	
11,900.00	7,500.00	19,201.49	9,889.82	48.23	81.52	146.01	-4,921.97	-224.54	2,921.72	2,797.10	124.63	23.444	
11,950.00	7,500.00	19,261.46	9,889.28	48.56	81.93	146.31	-4,981.93	-225.52	2,933.97	2,808.47	125.50	23.378	
12,000.00	7,500.00	19,327.10	9,888.71	48.88	82.39	146.61	-5,047.58	-225.87	2,947.67	2,821.25	126.42	23.317	
12,050.00	7,500.00	19,399.04	9,888.33	49.20	82.89	146.90	-5,119.50	-224.95	2,962.73	2,835.35	127.38	23.259	
12,100.00	7,500.00	19,449.94	9,888.19	49.52	83.25	147.45	-5,170.38	-223.43	2,979.15	2,850.96	128.19	23.240	SF
12,150.00	7,500.00	19,474.24	9,888.13	49.83	83.42	148.35	-5,194.67	-222.81	2,997.40	2,868.60	128.80	23.271	
12,200.00	7,500.00	19,505.13	9,888.02	50.14	83.63	149.29	-5,225.56	-222.29	3,017.49	2,888.03	129.46	23.308	
12,250.00	7,500.00	19,524.00	9,887.95	50.44	83.76	150.51	-5,244.43	-221.98	3,039.28	2,909.26	130.03	23.374	
12,300.00	7,500.00	19,524.00	9,887.95	50.74	83.76	152.16	-5,244.43	-221.98	3,063.00	2,932.57	130.43	23.484	
12,350.00	7,500.00	19,524.00	9,887.95	51.02	83.76	154.00	-5,244.43	-221.98	3,088.57	2,957.75	130.82	23.610	
12,400.00	7,500.00	19,524.00	9,887.95	51.30	83.76	156.05	-5,244.43	-221.98	3,115.85	2,984.66	131.19	23.751	
12,450.00	7,500.00	19,524.00	9,887.95	51.56	83.76	158.32	-5,244.43	-221.98	3,144.69	3,013.15	131.54	23.906	
12,500.00	7,500.00	19,524.00	9,887.95	51.81	83.76	160.79	-5,244.43	-221.98	3,174.96	3,043.07	131.88	24.074	
12,550.00	7,500.00	19,524.00	9,887.95	52.05	83.76	163.48	-5,244.43	-221.98	3,206.49	3,074.28	132.21	24.253	
12,600.00	7,500.00	19,524.00	9,887.95	52.27	83.76	166.37	-5,244.43	-221.98	3,239.14	3,106.62	132.53	24.442	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,650.00	7,500.00	19,524.00	9,887.95	52.48	83.76	169.46	-5,244.43	-221.98	3,272.76	3,139.93	132.83	24.639	
12,700.00	7,500.00	19,524.00	9,887.95	52.67	83.76	172.72	-5,244.43	-221.98	3,307.20	3,174.08	133.12	24.843	
12,750.00	7,500.00	19,524.00	9,887.95	52.84	83.76	176.13	-5,244.43	-221.98	3,342.30	3,208.90	133.41	25.053	
12,800.00	7,500.00	19,524.00	9,887.95	53.00	83.76	179.66	-5,244.43	-221.98	3,377.92	3,244.24	133.68	25.268	
12,850.00	7,500.00	19,524.00	9,887.95	53.14	83.76	-176.74	-5,244.43	-221.98	3,413.92	3,279.97	133.95	25.487	
12,900.00	7,500.00	19,524.00	9,887.95	53.27	83.76	-173.10	-5,244.43	-221.98	3,450.14	3,315.94	134.21	25.708	
12,950.00	7,500.00	19,524.00	9,887.95	53.37	83.76	-169.47	-5,244.43	-221.98	3,486.46	3,352.00	134.45	25.931	
13,000.00	7,500.00	19,524.00	9,887.95	53.46	83.76	-165.90	-5,244.43	-221.98	3,522.73	3,388.04	134.69	26.154	
13,050.00	7,500.00	19,524.00	9,887.95	53.53	83.76	-162.41	-5,244.43	-221.98	3,558.84	3,423.91	134.93	26.376	
13,100.00	7,500.00	19,524.00	9,887.95	53.58	83.76	-159.04	-5,244.43	-221.98	3,594.64	3,459.49	135.15	26.598	
13,150.00	7,500.00	19,524.00	9,887.95	53.62	83.76	-155.83	-5,244.43	-221.98	3,630.03	3,494.67	135.36	26.817	
13,200.00	7,500.00	19,524.00	9,887.95	53.63	83.76	-152.78	-5,244.43	-221.98	3,664.89	3,529.32	135.57	27.034	
13,250.00	7,500.00	19,524.00	9,887.95	53.63	83.76	-149.92	-5,244.43	-221.98	3,699.09	3,563.33	135.76	27.247	
13,300.00	7,500.00	19,524.00	9,887.95	53.62	83.76	-147.25	-5,244.43	-221.98	3,732.55	3,596.60	135.95	27.455	
13,350.00	7,500.00	19,524.00	9,887.95	53.58	83.76	-144.78	-5,244.43	-221.98	3,765.15	3,629.03	136.13	27.659	
13,400.00	7,500.00	19,524.00	9,887.95	53.54	83.76	-142.49	-5,244.43	-221.98	3,796.80	3,660.51	136.29	27.858	
13,450.00	7,500.00	19,524.00	9,887.95	53.48	83.76	-140.38	-5,244.43	-221.98	3,827.42	3,690.97	136.45	28.051	
13,500.00	7,500.00	19,524.00	9,887.95	53.40	83.76	-138.46	-5,244.43	-221.98	3,856.90	3,720.31	136.59	28.237	
13,550.00	7,500.00	19,521.03	9,887.96	53.32	83.74	-136.67	-5,241.46	-222.03	3,885.17	3,748.48	136.70	28.422	
13,600.00	7,500.00	19,485.00	9,888.09	53.22	83.49	-134.79	-5,205.43	-222.61	3,911.96	3,775.45	136.51	28.657	
13,650.00	7,500.00	19,466.56	9,888.15	53.12	83.36	-133.25	-5,186.99	-222.98	3,937.11	3,800.64	136.47	28.850	
13,700.00	7,500.00	19,420.18	9,888.29	53.00	83.04	-131.71	-5,140.63	-224.19	3,960.62	3,824.43	136.19	29.082	
13,750.00	7,500.00	19,326.10	9,888.72	52.88	82.38	-130.14	-5,046.57	-225.88	3,982.16	3,846.67	135.49	29.390	
13,800.00	7,500.00	19,222.26	9,889.67	52.75	81.66	-128.81	-4,942.75	-224.88	4,000.47	3,865.78	134.70	29.700	
13,850.00	7,500.00	19,162.49	9,889.99	52.61	81.25	-127.88	-4,882.98	-223.88	4,016.31	3,882.01	134.30	29.905	
13,900.00	7,500.00	19,126.85	9,890.08	52.48	81.00	-127.18	-4,847.34	-223.33	4,029.87	3,895.73	134.13	30.044	
13,950.00	7,500.00	19,093.65	9,890.24	52.33	80.77	-126.61	-4,814.15	-222.91	4,041.27	3,907.28	133.99	30.161	
14,000.00	7,500.00	18,967.00	9,890.93	52.19	79.90	-126.03	-4,687.53	-220.68	4,050.44	3,917.44	133.00	30.455	
14,050.00	7,500.00	18,934.33	9,890.99	52.05	79.68	-125.75	-4,654.87	-219.71	4,056.30	3,923.43	132.88	30.527	
14,100.00	7,500.00	18,902.25	9,891.06	51.90	79.46	-125.58	-4,622.80	-218.93	4,059.94	3,927.17	132.77	30.579	
14,105.32	7,500.00	18,898.84	9,891.07	51.89	79.43	-125.56	-4,619.39	-218.86	4,060.19	3,927.43	132.76	30.584	
14,200.00	7,500.00	18,800.09	9,891.43	51.63	78.75	-125.50	-4,520.67	-216.84	4,063.36	3,931.15	132.22	30.733	
14,300.00	7,500.00	18,663.03	9,892.44	51.35	77.82	-125.52	-4,383.68	-212.36	4,063.12	3,931.76	131.37	30.930	
14,333.98	7,500.00	18,607.99	9,892.95	51.26	77.44	-125.56	-4,328.69	-210.07	4,062.19	3,931.19	131.00	31.008	
14,400.00	7,500.00	18,550.81	9,893.21	51.09	77.05	-125.58	-4,271.56	-207.69	4,059.91	3,929.15	130.76	31.048	
14,500.00	7,500.00	18,498.00	9,893.08	50.84	76.69	-125.60	-4,218.78	-206.05	4,057.04	3,926.34	130.70	31.041	
14,600.00	7,500.00	18,426.50	9,892.60	50.59	76.20	-125.61	-4,147.29	-204.87	4,055.05	3,924.58	130.47	31.081	
14,700.00	7,500.00	18,351.92	9,892.08	50.35	75.70	-125.60	-4,072.71	-204.69	4,054.06	3,923.84	130.21	31.134	
14,800.00	7,500.00	18,277.52	9,891.77	50.12	75.19	-125.60	-3,998.31	-204.74	4,053.53	3,923.56	129.96	31.190	
14,815.05	7,500.00	18,268.11	9,891.73	50.09	75.12	-125.60	-3,988.91	-204.80	4,053.52	3,923.58	129.94	31.195	
14,900.00	7,500.00	18,216.00	9,891.45	49.90	74.77	-125.59	-3,936.80	-205.47	4,053.85	3,924.03	129.82	31.228	
15,000.00	7,500.00	18,156.25	9,891.21	49.69	74.36	-125.58	-3,877.07	-206.85	4,055.14	3,925.46	129.68	31.270	
15,100.00	7,500.00	18,059.87	9,891.12	49.48	73.71	-125.56	-3,780.74	-209.86	4,057.26	3,928.00	129.26	31.388	
15,200.00	7,500.00	17,961.67	9,890.79	49.28	73.04	-125.54	-3,682.57	-212.69	4,059.05	3,930.21	128.84	31.505	
15,300.00	7,500.00	17,868.11	9,890.26	49.09	72.41	-125.51	-3,589.06	-215.84	4,061.10	3,932.64	128.46	31.614	
15,400.00	7,500.00	17,755.40	9,890.00	48.91	71.65	-125.48	-3,476.41	-219.26	4,063.08	3,935.14	127.94	31.757	
15,500.00	7,500.00	17,464.00	9,888.11	48.74	69.70	-125.49	-3,185.24	-216.65	4,059.90	3,933.85	126.05	32.209	
15,600.00	7,500.00	17,370.00	9,890.04	48.57	69.08	-125.55	-3,091.40	-212.33	4,056.99	3,931.25	125.74	32.264	
15,700.00	7,500.00	17,370.00	9,890.04	48.42	69.08	-125.55	-3,091.40	-212.33	4,055.45	3,929.28	126.17	32.144	
15,712.58	7,500.00	17,370.00	9,890.04	48.40	69.08	-125.55	-3,091.40	-212.33	4,055.43	3,929.21	126.22	32.131	
15,800.00	7,500.00	17,338.48	9,890.66	48.27	68.87	-125.56	-3,059.89	-212.54	4,056.24	3,929.93	126.31	32.113	
15,900.00	7,500.00	17,219.62	9,891.94	48.13	68.09	-125.57	-2,941.04	-214.12	4,057.62	3,931.80	125.82	32.250	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,000.00	7,500.00	17,059.86	9,893.37	48.01	67.03	-125.59	-2,781.30	-213.56	4,057.32	3,932.27	125.04	32.447	
16,055.19	7,500.00	17,027.35	9,893.54	47.94	66.82	-125.60	-2,748.79	-213.47	4,057.16	3,932.13	125.03	32.450	
16,100.00	7,500.00	16,992.00	9,893.68	47.89	66.59	-125.60	-2,713.44	-213.66	4,057.28	3,932.33	124.95	32.472	
16,200.00	7,500.00	16,922.55	9,894.16	47.78	66.13	-125.60	-2,643.99	-214.30	4,058.02	3,933.18	124.84	32.505	
16,300.00	7,500.00	16,804.00	9,895.21	47.68	65.36	-125.61	-2,525.45	-215.11	4,058.72	3,934.32	124.40	32.627	
16,400.00	7,500.00	16,686.55	9,896.00	47.59	64.60	-125.62	-2,408.01	-215.79	4,059.26	3,935.29	123.97	32.743	
16,500.00	7,500.00	16,572.44	9,896.81	47.51	63.86	-125.63	-2,293.91	-215.50	4,059.09	3,935.51	123.58	32.845	
16,527.22	7,500.00	16,555.30	9,896.88	47.49	63.75	-125.63	-2,276.77	-215.50	4,059.06	3,935.48	123.58	32.846	
16,600.00	7,500.00	16,501.94	9,897.09	47.44	63.40	-125.64	-2,223.41	-215.80	4,059.28	3,935.78	123.50	32.868	
16,700.00	7,500.00	16,405.60	9,897.52	47.39	62.79	-125.64	-2,127.07	-216.49	4,059.77	3,936.52	123.25	32.939	
16,800.00	7,500.00	16,320.49	9,897.90	47.34	62.24	-125.64	-2,041.97	-217.39	4,060.52	3,937.44	123.08	32.990	
16,900.00	7,500.00	16,221.34	9,898.05	47.31	61.61	-125.63	-1,942.83	-219.03	4,061.60	3,938.78	122.82	33.069	
17,000.00	7,500.00	16,100.80	9,898.19	47.29	60.85	-125.63	-1,822.30	-220.01	4,061.90	3,939.46	122.44	33.175	
17,100.00	7,500.00	16,004.13	9,898.47	47.28	60.24	-125.63	-1,725.63	-221.11	4,062.62	3,940.40	122.22	33.241	
17,200.00	7,500.00	15,918.08	9,898.76	47.28	59.70	-125.63	-1,639.59	-221.70	4,063.07	3,940.99	122.08	33.283	
17,300.00	7,500.00	15,851.87	9,899.02	47.30	59.29	-125.62	-1,573.39	-223.00	4,064.47	3,942.41	122.06	33.300	
17,400.00	7,500.00	15,714.36	9,899.83	47.33	58.43	-125.62	-1,435.89	-224.78	4,065.42	3,943.81	121.61	33.430	
17,500.00	7,500.00	15,605.13	9,900.14	47.37	57.76	-125.62	-1,326.67	-226.00	4,066.14	3,944.80	121.35	33.508	
17,600.00	7,500.00	15,491.00	9,900.42	47.43	57.06	-125.62	-1,212.54	-226.63	4,066.35	3,945.28	121.07	33.587	
17,700.00	7,500.00	15,397.00	9,900.71	47.50	56.48	-125.62	-1,118.55	-227.19	4,066.66	3,945.74	120.92	33.630	
17,800.00	7,500.00	15,295.62	9,900.77	47.59	55.87	-125.62	-1,017.17	-228.25	4,067.18	3,946.45	120.74	33.687	
17,900.00	7,500.00	15,198.16	9,900.73	47.69	55.29	-125.62	-919.72	-229.15	4,067.55	3,946.96	120.58	33.733	
18,000.00	7,500.00	15,092.57	9,900.53	47.81	54.66	-125.61	-814.13	-230.21	4,067.89	3,947.50	120.39	33.790	
18,100.00	7,500.00	14,980.00	9,900.36	47.94	53.99	-125.61	-701.57	-230.90	4,067.94	3,947.78	120.17	33.852	
18,154.34	7,500.00	14,928.00	9,900.30	48.02	53.68	-125.60	-649.56	-231.12	4,067.90	3,947.79	120.10	33.870	
18,200.00	7,500.00	14,895.84	9,900.25	48.08	53.49	-125.60	-617.40	-231.34	4,067.96	3,947.84	120.12	33.866	
18,300.00	7,500.00	14,829.14	9,900.07	48.25	53.10	-125.60	-550.71	-232.40	4,068.72	3,948.56	120.16	33.860	
18,400.00	7,500.00	14,700.15	9,899.75	48.42	52.35	-125.58	-421.74	-234.53	4,069.57	3,949.70	119.88	33.948	
18,461.64	7,500.00	14,613.39	9,899.40	48.54	51.86	-125.57	-334.99	-235.28	4,069.63	3,949.97	119.67	34.008	
18,462.14	7,500.00	14,612.73	9,899.39	49.47	51.85	-125.57	-334.33	-235.29	4,069.63	3,949.97	119.66	34.009	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	31.31	31.31	0.00	0.05	1.24	4,644.50	100.38	4,645.59				
100.00	100.00	128.54	128.54	0.28	0.20	1.24	4,644.55	100.23	4,645.64	4,645.16	0.48	9,677.014	
200.00	200.00	223.77	223.77	0.63	0.40	1.23	4,644.67	99.91	4,645.75	4,644.72	1.04	4,487.757	
300.00	300.00	314.75	314.75	0.99	0.73	1.22	4,644.95	99.26	4,646.04	4,644.32	1.72	2,701.396	
400.00	400.00	409.62	409.61	1.35	1.07	1.21	4,645.34	98.29	4,646.43	4,644.02	2.42	1,921.934	
500.00	500.00	478.00	477.99	1.71	1.31	1.21	4,645.81	97.95	4,647.16	4,644.14	3.02	1,539.601	
600.00	599.98	569.00	568.98	2.06	1.63	-103.10	4,646.94	97.97	4,648.80	4,645.12	3.69	1,261.067	
700.00	699.84	635.22	635.19	2.40	1.86	-103.08	4,648.13	98.00	4,651.76	4,647.50	4.26	1,090.846	
750.00	749.68	669.61	669.57	2.58	1.99	-103.08	4,648.91	97.93	4,653.78	4,649.22	4.56	1,020.484	
800.00	799.49	703.96	703.91	2.75	2.11	-103.12	4,649.80	97.81	4,656.06	4,651.21	4.86	958.660	
900.00	899.11	811.64	811.54	3.10	2.49	-103.24	4,652.93	97.27	4,660.99	4,655.40	5.59	833.569	
1,000.00	998.73	993.28	993.15	3.46	3.14	-103.42	4,656.02	97.39	4,664.73	4,658.13	6.59	707.702	
1,001.27	1,000.00	995.68	995.55	3.46	3.14	-103.43	4,656.04	97.38	4,664.76	4,658.16	6.60	706.312	
1,100.00	1,098.18	1,172.38	1,172.24	3.81	3.76	-105.62	4,655.65	95.75	4,667.01	4,659.44	7.57	616.411	
1,200.00	1,197.22	1,286.29	1,286.14	4.18	4.15	-106.89	4,654.50	94.57	4,669.92	4,661.59	8.32	561.181	
1,300.00	1,295.71	1,391.87	1,391.70	4.54	4.51	-107.76	4,653.12	93.44	4,673.81	4,664.76	9.05	516.552	
1,400.00	1,393.53	1,478.40	1,478.22	4.91	4.81	-108.37	4,652.02	92.68	4,679.08	4,669.37	9.71	481.642	
1,414.82	1,407.97	1,490.85	1,490.67	4.97	4.86	-108.45	4,651.89	92.58	4,680.00	4,670.19	9.81	476.920	
1,500.00	1,490.88	1,578.35	1,578.16	5.28	5.16	-108.69	4,650.91	91.92	4,685.41	4,674.98	10.43	449.129	
1,600.00	1,588.22	1,640.33	1,640.14	5.66	5.38	-108.86	4,650.35	91.48	4,692.08	4,681.06	11.02	425.664	
1,700.00	1,685.56	1,689.00	1,688.81	6.04	5.55	-109.00	4,650.34	91.09	4,699.74	4,688.18	11.57	406.255	
1,800.00	1,782.90	1,768.69	1,768.49	6.42	5.83	-109.22	4,650.88	90.23	4,708.16	4,695.93	12.23	385.024	
1,900.00	1,880.24	1,871.25	1,871.04	6.80	6.20	-109.50	4,651.88	89.05	4,716.96	4,703.99	12.97	363.644	
2,000.00	1,977.58	2,002.78	2,002.55	7.18	6.65	-109.84	4,652.61	90.09	4,725.41	4,711.60	13.81	342.282	
2,100.00	2,074.91	2,115.96	2,115.68	7.57	7.04	-110.09	4,652.58	93.73	4,733.29	4,718.72	14.57	324.874	
2,200.00	2,172.25	2,225.54	2,225.25	7.95	7.41	-110.36	4,652.38	95.29	4,741.17	4,725.84	15.32	309.406	
2,300.00	2,269.59	2,328.05	2,327.75	8.34	7.76	-110.61	4,651.84	95.96	4,748.82	4,732.77	16.05	295.787	
2,400.00	2,366.93	2,390.75	2,390.45	8.73	7.97	-110.77	4,651.67	96.24	4,756.85	4,740.20	16.65	285.662	
2,500.00	2,464.27	2,442.00	2,441.70	9.11	8.15	-110.91	4,651.98	96.08	4,765.86	4,748.65	17.21	276.943	
2,600.00	2,561.61	2,495.00	2,494.68	9.50	8.34	-111.06	4,653.01	95.10	4,776.12	4,758.35	17.77	268.724	
2,700.00	2,658.95	2,540.97	2,540.61	9.89	8.50	-111.19	4,654.35	93.73	4,787.46	4,769.15	18.31	261.462	
2,800.00	2,756.29	2,628.09	2,627.66	10.28	8.81	-111.44	4,657.04	91.31	4,799.29	4,780.29	19.00	252.603	
2,900.00	2,853.63	2,726.03	2,725.51	10.67	9.16	-111.72	4,660.17	88.71	4,811.34	4,791.61	19.73	243.868	
3,000.00	2,950.97	2,915.50	2,914.77	11.06	9.83	-112.29	4,664.33	81.07	4,822.74	4,801.94	20.80	231.849	
3,100.00	3,048.31	3,019.68	3,018.81	11.45	10.20	-112.61	4,665.27	75.78	4,833.01	4,811.46	21.56	224.209	
3,200.00	3,145.64	3,118.15	3,117.13	11.84	10.55	-112.92	4,666.08	70.44	4,843.37	4,821.08	22.29	217.292	
3,300.00	3,242.98	3,219.50	3,218.32	12.23	10.91	-113.24	4,666.81	64.73	4,853.79	4,830.76	23.03	210.717	
3,400.00	3,340.32	3,324.22	3,322.69	12.62	11.29	-113.59	4,667.24	56.37	4,864.29	4,840.50	23.79	204.448	
3,500.00	3,437.66	3,442.56	3,440.36	13.01	11.71	-114.03	4,666.78	43.79	4,874.41	4,849.81	24.60	198.139	
3,600.00	3,535.00	3,527.35	3,524.64	13.40	12.01	-114.35	4,666.40	34.50	4,884.76	4,859.47	25.29	193.184	
3,700.00	3,632.34	3,613.41	3,610.00	13.79	12.32	-114.68	4,666.04	23.57	4,895.52	4,869.54	25.97	188.472	
3,800.00	3,729.68	3,680.00	3,675.93	14.19	12.56	-114.95	4,665.67	14.18	4,906.61	4,880.02	26.59	184.527	
3,900.00	3,827.02	3,741.82	3,737.02	14.58	12.78	-115.21	4,665.60	4.72	4,918.51	4,891.32	27.19	180.919	
4,000.00	3,924.36	3,799.81	3,794.20	14.97	12.99	-115.46	4,666.08	-4.90	4,931.54	4,903.77	27.77	177.612	
4,100.00	4,021.70	3,915.63	3,908.11	15.36	13.41	-115.97	4,666.99	-25.85	4,945.10	4,916.53	28.57	173.082	
4,200.00	4,119.04	4,078.35	4,067.58	15.75	13.99	-116.72	4,665.68	-58.13	4,957.61	4,928.05	29.56	167.716	
4,300.00	4,216.37	4,183.64	4,170.80	16.15	14.38	-117.20	4,664.11	-78.86	4,969.90	4,939.57	30.33	163.879	
4,400.00	4,313.71	4,300.56	4,285.15	16.54	14.80	-117.74	4,661.68	-103.13	4,982.12	4,950.98	31.14	159.990	
4,500.00	4,411.05	4,370.85	4,353.62	16.93	15.06	-118.08	4,659.80	-118.90	4,994.45	4,962.68	31.77	157.194	
4,600.00	4,508.39	4,435.00	4,416.07	17.32	15.30	-118.39	4,658.73	-133.52	5,007.94	4,975.56	32.38	154.664	
4,700.00	4,605.73	4,472.21	4,452.28	17.72	15.43	-118.57	4,658.40	-142.07	5,022.37	4,989.50	32.88	152.768	
4,800.00	4,703.07	4,530.00	4,508.48	18.11	15.65	-118.86	4,658.04	-155.55	5,037.70	5,004.25	33.45	150.594	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	4,586.63	4,563.52	18.50	15.86	-119.13	4,658.05	-168.87	5,053.95	5,019.93	34.02	148.550	
5,000.00	4,897.75	14,436.09	9,663.45	18.90	51.57	168.85	-258.53	-896.63	5,053.28	5,000.49	52.79	95.728	
5,100.00	4,995.09	14,444.28	9,663.50	19.29	51.61	168.68	-266.72	-896.67	4,970.04	4,916.82	53.22	93.385	
5,200.00	5,092.43	14,452.55	9,663.54	19.68	51.66	168.51	-274.99	-896.71	4,887.42	4,833.75	53.67	91.068	
5,300.00	5,189.77	14,463.41	9,663.60	20.07	51.72	168.29	-285.85	-896.75	4,805.44	4,751.29	54.15	88.751	
5,400.00	5,287.10	14,474.22	9,663.64	20.47	51.78	168.07	-296.66	-896.80	4,724.14	4,669.50	54.64	86.465	
5,500.00	5,384.44	14,484.81	9,663.68	20.86	51.84	167.85	-307.25	-896.84	4,643.55	4,588.41	55.14	84.212	
5,600.00	5,481.78	14,495.19	9,663.71	21.25	51.90	167.64	-317.63	-896.89	4,563.71	4,508.05	55.66	81.992	
5,700.00	5,579.12	14,505.38	9,663.73	21.65	51.96	167.43	-327.82	-896.94	4,484.66	4,428.47	56.20	79.805	
5,800.00	5,676.46	14,515.37	9,663.74	22.04	52.01	167.23	-337.81	-896.98	4,406.45	4,349.70	56.75	77.653	
5,900.00	5,773.80	14,525.18	9,663.75	22.43	52.07	167.03	-347.62	-897.03	4,329.12	4,271.80	57.31	75.536	
6,000.00	5,871.14	14,534.80	9,663.75	22.83	52.12	166.83	-357.24	-897.08	4,252.71	4,194.82	57.90	73.453	
6,100.00	5,968.48	14,544.24	9,663.74	23.22	52.18	166.63	-366.68	-897.12	4,177.29	4,118.79	58.50	71.407	
6,200.00	6,065.82	14,553.51	9,663.73	23.61	52.23	166.44	-375.95	-897.17	4,102.90	4,043.78	59.12	69.397	
6,300.00	6,163.16	14,557.83	9,663.73	24.01	52.25	166.35	-380.26	-897.19	4,029.61	3,969.87	59.74	67.457	
6,400.00	6,260.50	14,564.56	9,663.73	24.40	52.29	166.21	-387.00	-897.23	3,957.48	3,897.09	60.39	65.536	
6,500.00	6,357.83	14,571.33	9,663.72	24.79	52.33	166.07	-393.77	-897.26	3,886.57	3,825.51	61.06	63.651	
6,600.00	6,455.17	14,578.13	9,663.72	25.19	52.37	165.93	-400.57	-897.29	3,816.94	3,755.19	61.76	61.805	
6,700.00	6,552.51	14,584.97	9,663.72	25.58	52.41	165.79	-407.41	-897.32	3,748.68	3,686.20	62.48	59.998	
6,800.00	6,649.85	14,591.84	9,663.72	25.98	52.45	165.65	-414.28	-897.36	3,681.86	3,618.63	63.23	58.231	
6,900.00	6,747.19	14,598.75	9,663.72	26.37	52.49	165.51	-421.19	-897.39	3,616.56	3,552.55	64.00	56.506	
7,000.00	6,844.53	14,605.70	9,663.73	26.76	52.53	165.37	-428.13	-897.42	3,552.85	3,488.05	64.80	54.825	
7,100.00	6,941.87	14,612.68	9,663.73	27.16	52.57	165.22	-435.11	-897.45	3,490.83	3,425.20	65.63	53.190	
7,115.01	6,956.48	14,613.73	9,663.73	27.22	52.57	165.20	-436.16	-897.45	3,481.67	3,415.92	65.76	52.948	
7,150.00	6,990.45	14,617.19	9,663.74	27.35	52.59	154.62	-439.63	-897.47	3,460.50	3,394.44	66.06	52.384	
7,200.00	7,038.53	14,625.66	9,663.74	27.55	52.64	143.88	-448.10	-897.51	3,430.80	3,364.28	66.52	51.575	
7,250.00	7,085.72	14,639.00	9,663.76	27.75	52.72	137.45	-461.44	-897.56	3,401.93	3,334.92	67.01	50.765	
7,300.00	7,131.67	14,653.68	9,663.78	27.94	52.80	133.86	-476.11	-897.63	3,374.10	3,306.58	67.52	49.973	
7,350.00	7,176.02	14,672.61	9,663.79	28.13	52.91	131.94	-495.05	-897.75	3,347.50	3,279.45	68.05	49.192	
7,400.00	7,218.44	14,694.92	9,663.80	28.32	53.04	131.00	-517.35	-897.93	3,322.28	3,253.69	68.60	48.431	
7,450.00	7,258.60	14,720.40	9,663.79	28.50	53.18	130.64	-542.84	-898.18	3,298.61	3,229.45	69.16	47.695	
7,500.00	7,296.21	14,763.10	9,663.70	28.67	53.43	130.44	-585.54	-898.64	3,276.58	3,206.77	69.81	46.935	
7,550.00	7,330.97	14,820.39	9,663.32	28.84	53.76	130.32	-642.82	-899.06	3,256.08	3,185.55	70.53	46.166	
7,600.00	7,362.62	14,857.36	9,662.95	28.99	53.98	130.60	-679.79	-899.28	3,237.26	3,166.14	71.13	45.513	
7,650.00	7,390.91	14,893.66	9,662.53	29.15	54.19	130.96	-716.08	-899.61	3,220.38	3,148.67	71.71	44.908	
7,700.00	7,415.64	14,937.26	9,661.96	29.30	54.45	131.28	-759.68	-900.12	3,205.51	3,133.19	72.32	44.326	
7,750.00	7,436.62	14,995.11	9,661.24	29.44	54.79	131.52	-817.52	-900.57	3,192.52	3,119.54	72.98	43.746	
7,800.00	7,453.68	15,042.24	9,660.71	29.57	55.07	131.85	-864.64	-900.71	3,181.45	3,107.89	73.56	43.249	
7,825.96	7,460.95	15,064.12	9,660.49	29.64	55.20	132.02	-886.52	-900.78	3,176.55	3,102.71	73.84	43.019	
7,900.00	7,477.79	15,124.65	9,660.01	29.84	55.56	132.25	-947.05	-901.01	3,165.12	3,090.51	74.61	42.422	
8,000.00	7,493.08	15,202.00	9,659.69	30.11	56.02	132.44	-1,024.40	-901.69	3,155.42	3,079.82	75.60	41.739	
8,100.00	7,499.70	15,308.45	9,659.48	30.38	56.65	132.46	-1,130.84	-902.86	3,151.96	3,075.26	76.70	41.093	
8,125.95	7,499.99	15,358.33	9,659.26	30.45	56.96	132.44	-1,180.72	-903.09	3,151.86	3,074.76	77.10	40.878	
8,136.20	7,499.99	15,378.03	9,659.13	30.48	57.07	132.44	-1,200.42	-903.08	3,151.85	3,074.59	77.26	40.795	
8,180.79	7,499.99	15,413.29	9,658.92	30.60	57.29	132.44	-1,235.68	-902.98	3,151.73	3,074.06	77.68	40.575	
8,200.00	7,499.99	15,425.29	9,658.89	30.65	57.36	132.44	-1,247.68	-902.97	3,151.76	3,073.92	77.84	40.491	
8,300.00	7,499.99	15,496.06	9,659.28	30.94	57.79	132.44	-1,318.44	-903.12	3,152.57	3,073.84	78.73	40.041	
8,400.00	7,499.99	15,683.69	9,658.02	31.24	58.94	132.41	-1,506.06	-902.99	3,152.46	3,072.16	80.30	39.258	
8,500.00	7,499.99	15,772.27	9,657.02	31.56	59.49	132.40	-1,594.63	-901.95	3,151.15	3,069.81	81.34	38.742	
8,600.00	7,500.00	15,876.06	9,655.74	31.88	60.13	132.40	-1,698.41	-900.74	3,149.80	3,067.33	82.48	38.191	
8,700.00	7,500.00	15,972.63	9,654.44	32.22	60.74	132.38	-1,794.96	-899.79	3,148.50	3,064.91	83.59	37.666	
8,800.00	7,500.00	16,071.29	9,652.96	32.58	61.36	132.37	-1,893.61	-898.93	3,147.19	3,062.45	84.73	37.143	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,500.00	16,166.43	9,651.94	32.94	61.96	132.36	-1,988.74	-898.09	3,146.15	3,060.28	85.87	36.640	
9,000.00	7,500.00	16,284.67	9,650.03	33.32	62.71	132.34	-2,106.96	-896.99	3,144.70	3,057.54	87.15	36.083	
9,100.00	7,500.00	16,385.46	9,648.44	33.71	63.35	132.33	-2,207.73	-895.65	3,142.99	3,054.64	88.35	35.575	
9,200.00	7,500.00	16,496.31	9,645.68	34.11	64.06	132.30	-2,318.54	-894.99	3,141.22	3,051.59	89.62	35.049	
9,300.00	7,500.00	16,606.60	9,643.17	34.52	64.77	132.27	-2,428.80	-893.47	3,139.00	3,048.10	90.90	34.531	
9,400.00	7,500.00	16,684.50	9,641.92	34.94	65.28	132.27	-2,506.67	-892.13	3,136.99	3,044.99	92.00	34.097	
9,500.00	7,500.00	16,762.71	9,641.34	35.37	65.78	132.27	-2,584.86	-890.93	3,135.69	3,042.58	93.11	33.678	
9,600.00	7,500.00	16,885.20	9,640.32	35.81	66.58	132.27	-2,707.35	-889.53	3,134.68	3,040.19	94.49	33.175	
9,700.00	7,500.00	16,959.20	9,639.31	36.26	67.06	132.26	-2,781.34	-888.78	3,133.37	3,037.78	95.59	32.779	
9,800.00	7,500.00	17,064.33	9,638.22	36.73	67.75	132.25	-2,886.45	-888.25	3,132.64	3,035.75	96.89	32.331	
9,900.00	7,500.00	17,204.81	9,633.99	37.20	68.67	132.19	-3,026.86	-887.63	3,130.49	3,032.06	98.43	31.804	
10,000.00	7,500.00	17,268.00	9,632.79	37.68	69.09	132.18	-3,090.04	-886.95	3,128.76	3,029.27	99.49	31.447	
10,100.00	7,500.00	17,342.80	9,632.48	38.17	69.58	132.18	-3,164.83	-886.14	3,128.02	3,027.40	100.63	31.085	
10,200.00	7,500.00	17,453.89	9,631.93	38.66	70.32	132.18	-3,275.92	-885.23	3,127.41	3,025.41	102.00	30.661	
10,300.00	7,500.00	17,549.00	9,631.58	39.17	70.95	132.18	-3,371.02	-884.34	3,126.81	3,023.54	103.28	30.276	
10,316.19	7,500.00	17,549.00	9,631.58	39.25	70.95	132.18	-3,371.02	-884.34	3,126.77	3,023.39	103.38	30.244	
10,400.00	7,500.00	17,631.08	9,631.83	39.68	71.50	132.18	-3,453.10	-883.79	3,126.81	3,022.34	104.47	29.929	
10,500.00	7,500.00	17,774.38	9,630.89	40.20	72.46	132.17	-3,596.39	-882.73	3,126.15	3,020.08	106.08	29.470	
10,600.00	7,500.00	17,893.52	9,629.47	40.73	73.26	132.17	-3,715.50	-880.79	3,124.48	3,016.95	107.53	29.056	
10,700.00	7,500.00	17,984.33	9,628.51	41.26	73.87	132.18	-3,806.29	-878.90	3,122.58	3,013.77	108.81	28.697	
10,800.00	7,500.00	18,089.67	9,627.34	41.80	74.58	132.18	-3,911.61	-877.24	3,121.01	3,010.82	110.19	28.324	
10,900.00	7,500.00	18,202.50	9,625.99	42.35	75.34	132.18	-4,024.41	-874.81	3,118.95	3,007.33	111.62	27.942	
11,000.00	7,500.00	18,301.00	9,624.71	42.91	76.01	132.19	-4,122.87	-872.54	3,116.70	3,003.74	112.97	27.589	
11,100.00	7,500.00	18,395.00	9,623.54	43.47	76.65	132.19	-4,216.84	-870.41	3,114.53	3,000.24	114.29	27.251	
11,200.00	7,500.00	18,489.00	9,622.39	44.03	77.29	132.19	-4,310.82	-868.54	3,112.58	2,996.96	115.62	26.921	
11,300.00	7,500.00	18,555.81	9,621.94	44.61	77.75	132.20	-4,377.62	-867.49	3,111.31	2,994.54	116.77	26.644	
11,400.00	7,500.00	18,660.16	9,622.39	45.18	78.46	132.22	-4,481.95	-865.90	3,110.82	2,992.65	118.18	26.323	
11,500.00	7,500.00	18,831.93	9,620.46	45.77	79.64	132.24	-4,653.65	-861.47	3,108.28	2,988.27	120.02	25.898	
11,581.32	7,500.00	18,905.55	9,618.92	46.24	80.15	132.24	-4,727.22	-859.44	3,105.76	2,984.66	121.10	25.646	
11,600.00	7,500.00	18,921.08	9,618.69	46.35	80.26	132.22	-4,742.74	-858.97	3,105.37	2,984.04	121.34	25.593	
11,612.15	7,500.00	18,931.18	9,618.56	46.43	80.33	132.21	-4,752.83	-858.66	3,105.30	2,983.81	121.50	25.559	CC, ES
11,650.00	7,500.00	18,966.00	9,618.25	46.65	80.57	132.22	-4,787.64	-857.54	3,105.99	2,983.98	122.01	25.457	
11,700.00	7,500.00	19,026.72	9,617.50	46.96	80.99	132.28	-4,848.32	-855.66	3,108.81	2,986.03	122.78	25.319	
11,750.00	7,500.00	19,061.00	9,616.74	47.27	81.22	132.44	-4,882.58	-854.73	3,113.74	2,990.34	123.40	25.232	
11,800.00	7,500.00	19,095.60	9,616.02	47.59	81.46	132.70	-4,917.17	-853.97	3,121.14	2,997.11	124.03	25.164	
11,850.00	7,500.00	19,118.52	9,615.73	47.91	81.62	133.10	-4,940.08	-853.61	3,131.19	3,006.61	124.58	25.134	
11,900.00	7,500.00	19,155.00	9,615.58	48.23	81.87	133.55	-4,976.56	-853.26	3,143.87	3,018.65	125.22	25.106	
11,950.00	7,500.00	19,174.95	9,615.53	48.56	82.01	134.19	-4,996.51	-853.19	3,158.91	3,033.16	125.75	25.121	
12,000.00	7,500.00	19,229.23	9,614.76	48.88	82.39	134.73	-5,050.78	-853.41	3,176.09	3,049.58	126.52	25.104	SF
12,050.00	7,500.00	19,281.10	9,613.32	49.20	82.75	135.36	-5,102.63	-854.02	3,195.24	3,067.97	127.27	25.106	
12,100.00	7,500.00	19,331.18	9,611.96	49.52	83.09	136.09	-5,152.69	-854.39	3,216.33	3,088.32	128.01	25.125	
12,150.00	7,500.00	19,369.30	9,611.05	49.83	83.36	137.05	-5,190.80	-854.49	3,239.37	3,110.70	128.66	25.177	
12,200.00	7,500.00	19,404.33	9,610.44	50.14	83.60	138.17	-5,225.82	-854.44	3,264.39	3,135.11	129.29	25.249	
12,250.00	7,500.00	19,430.00	9,610.03	50.44	83.78	139.56	-5,251.49	-854.39	3,291.32	3,161.49	129.83	25.350	
12,300.00	7,500.00	19,430.00	9,610.03	50.74	83.78	141.47	-5,251.49	-854.39	3,320.30	3,190.12	130.18	25.506	
12,350.00	7,500.00	19,430.00	9,610.03	51.02	83.78	143.65	-5,251.49	-854.39	3,351.27	3,220.77	130.50	25.680	
12,400.00	7,500.00	19,430.00	9,610.03	51.30	83.78	146.12	-5,251.49	-854.39	3,384.07	3,253.26	130.81	25.871	
12,450.00	7,500.00	19,430.00	9,610.03	51.56	83.78	148.91	-5,251.49	-854.39	3,418.52	3,287.43	131.09	26.077	
12,500.00	7,500.00	19,430.00	9,610.03	51.81	83.78	152.03	-5,251.49	-854.39	3,454.45	3,323.09	131.36	26.297	
12,550.00	7,500.00	19,430.00	9,610.03	52.05	83.78	155.51	-5,251.49	-854.39	3,491.69	3,360.07	131.62	26.529	
12,600.00	7,500.00	19,430.00	9,610.03	52.27	83.78	159.35	-5,251.49	-854.39	3,530.05	3,398.20	131.85	26.772	
12,650.00	7,500.00	19,430.00	9,610.03	52.48	83.78	163.54	-5,251.49	-854.39	3,569.37	3,437.29	132.08	27.024	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,700.00	7,500.00	19,430.00	9,610.03	52.67	83.78	168.07	-5,251.49	-854.39	3,609.47	3,477.17	132.29	27.284	
12,750.00	7,500.00	19,430.00	9,610.03	52.84	83.78	172.87	-5,251.49	-854.39	3,650.17	3,517.68	132.49	27.550	
12,800.00	7,500.00	19,430.00	9,610.03	53.00	83.78	177.89	-5,251.49	-854.39	3,691.32	3,558.64	132.68	27.821	
12,850.00	7,500.00	19,430.00	9,610.03	53.14	83.78	-176.97	-5,251.49	-854.39	3,732.74	3,599.89	132.86	28.096	
12,900.00	7,500.00	19,430.00	9,610.03	53.27	83.78	-171.81	-5,251.49	-854.39	3,774.29	3,641.27	133.02	28.373	
12,950.00	7,500.00	19,430.00	9,610.03	53.37	83.78	-166.73	-5,251.49	-854.39	3,815.80	3,682.62	133.18	28.652	
13,000.00	7,500.00	19,430.00	9,610.03	53.46	83.78	-161.82	-5,251.49	-854.39	3,857.12	3,723.80	133.33	28.930	
13,050.00	7,500.00	19,430.00	9,610.03	53.53	83.78	-157.16	-5,251.49	-854.39	3,898.12	3,764.66	133.46	29.207	
13,100.00	7,500.00	19,430.00	9,610.03	53.58	83.78	-152.80	-5,251.49	-854.39	3,938.66	3,805.06	133.59	29.483	
13,150.00	7,500.00	19,430.00	9,610.03	53.62	83.78	-148.78	-5,251.49	-854.39	3,978.59	3,844.88	133.71	29.755	
13,200.00	7,500.00	19,430.00	9,610.03	53.63	83.78	-145.10	-5,251.49	-854.39	4,017.80	3,883.98	133.82	30.024	
13,250.00	7,500.00	19,430.00	9,610.03	53.63	83.78	-141.76	-5,251.49	-854.39	4,056.16	3,922.24	133.92	30.287	
13,300.00	7,500.00	19,430.00	9,610.03	53.62	83.78	-138.75	-5,251.49	-854.39	4,093.56	3,959.55	134.01	30.546	
13,350.00	7,500.00	19,430.00	9,610.03	53.58	83.78	-136.04	-5,251.49	-854.39	4,129.89	3,995.80	134.10	30.798	
13,400.00	7,500.00	19,430.00	9,610.03	53.54	83.78	-133.62	-5,251.49	-854.39	4,165.05	4,030.88	134.17	31.043	
13,450.00	7,500.00	19,430.00	9,610.03	53.48	83.78	-131.45	-5,251.49	-854.39	4,198.93	4,064.69	134.23	31.281	
13,500.00	7,500.00	19,430.00	9,610.03	53.40	83.78	-129.52	-5,251.49	-854.39	4,231.44	4,097.15	134.29	31.510	
13,550.00	7,500.00	19,403.42	9,610.46	53.32	83.60	-127.62	-5,224.91	-854.45	4,262.42	4,128.31	134.12	31.782	
13,600.00	7,500.00	19,364.83	9,611.14	53.22	83.33	-125.89	-5,186.33	-854.49	4,291.55	4,157.71	133.84	32.065	
13,650.00	7,500.00	19,315.67	9,612.38	53.12	82.99	-124.34	-5,137.19	-854.31	4,318.67	4,185.20	133.48	32.356	
13,700.00	7,500.00	19,253.78	9,614.11	53.00	82.56	-122.97	-5,075.32	-853.70	4,343.53	4,210.53	133.00	32.657	
13,750.00	7,500.00	19,212.91	9,615.09	52.88	82.27	-121.88	-5,034.46	-853.28	4,366.09	4,233.38	132.71	32.899	
13,800.00	7,500.00	19,172.94	9,615.54	52.75	82.00	-120.94	-4,994.49	-853.19	4,386.39	4,253.96	132.43	33.123	
13,850.00	7,500.00	19,155.00	9,615.58	52.61	81.87	-120.20	-4,976.56	-853.26	4,404.43	4,272.10	132.33	33.283	
13,900.00	7,500.00	19,125.18	9,615.67	52.48	81.67	-119.55	-4,946.74	-853.52	4,420.22	4,288.08	132.14	33.452	
13,950.00	7,500.00	19,105.57	9,615.87	52.33	81.53	-119.03	-4,927.13	-853.80	4,433.83	4,301.80	132.02	33.584	
14,000.00	7,500.00	19,061.00	9,616.74	52.19	81.22	-118.59	-4,882.58	-854.73	4,445.35	4,313.64	131.72	33.750	
14,050.00	7,500.00	19,061.00	9,616.74	52.05	81.22	-118.29	-4,882.58	-854.73	4,454.26	4,322.50	131.76	33.806	
14,100.00	7,500.00	19,017.77	9,617.66	51.90	80.92	-118.04	-4,839.38	-855.91	4,460.90	4,329.43	131.47	33.931	
14,105.32	7,500.00	19,011.83	9,617.76	51.89	80.88	-118.02	-4,833.44	-856.09	4,461.44	4,330.01	131.43	33.946	
14,200.00	7,500.00	18,917.00	9,618.74	51.63	80.23	-117.91	-4,738.66	-859.10	4,469.48	4,338.68	130.80	34.171	
14,300.00	7,500.00	18,821.61	9,620.70	51.35	79.57	-117.85	-4,643.33	-861.75	4,475.09	4,344.91	130.18	34.376	
14,333.98	7,500.00	18,754.64	9,621.92	51.26	79.11	-117.84	-4,576.39	-863.51	4,476.25	4,346.54	129.71	34.508	
14,400.00	7,500.00	18,616.91	9,622.14	51.09	78.17	-117.82	-4,438.71	-866.70	4,477.55	4,348.81	128.75	34.778	
14,500.00	7,500.00	18,535.59	9,622.00	50.84	77.61	-117.82	-4,357.40	-867.77	4,478.29	4,350.01	128.27	34.912	
14,600.00	7,500.00	18,467.43	9,622.65	50.59	77.14	-117.82	-4,289.25	-868.93	4,479.82	4,351.91	127.91	35.023	
14,700.00	7,500.00	18,381.21	9,623.70	50.35	76.56	-117.82	-4,203.06	-870.71	4,481.82	4,354.40	127.42	35.174	
14,800.00	7,500.00	18,286.75	9,624.89	50.12	75.91	-117.83	-4,108.63	-872.87	4,484.04	4,357.16	126.88	35.342	
14,900.00	7,500.00	18,182.86	9,626.24	49.90	75.21	-117.83	-4,004.77	-875.26	4,486.29	4,360.01	126.28	35.528	
15,000.00	7,500.00	18,054.93	9,627.73	49.69	74.34	-117.84	-3,876.88	-877.85	4,488.25	4,362.73	125.52	35.759	
15,100.00	7,500.00	17,965.21	9,628.72	49.48	73.74	-117.84	-3,787.18	-879.24	4,489.77	4,364.72	125.04	35.905	
15,200.00	7,500.00	17,866.40	9,629.78	49.28	73.07	-117.84	-3,688.40	-881.33	4,491.74	4,367.22	124.52	36.073	
15,300.00	7,500.00	17,717.11	9,631.56	49.09	72.07	-117.86	-3,539.13	-883.26	4,493.07	4,369.42	123.65	36.338	
15,400.00	7,500.00	17,587.80	9,631.72	48.91	71.21	-117.86	-3,409.82	-884.06	4,493.23	4,370.30	122.93	36.551	
15,500.00	7,500.00	17,508.91	9,631.54	48.74	70.68	-117.85	-3,330.93	-884.69	4,493.46	4,370.87	122.59	36.655	
15,600.00	7,500.00	17,417.00	9,632.27	48.57	70.07	-117.86	-3,239.03	-885.59	4,494.30	4,372.13	122.16	36.789	
15,700.00	7,500.00	17,314.65	9,632.55	48.42	69.40	-117.86	-3,136.69	-886.39	4,494.71	4,373.03	121.68	36.940	
15,800.00	7,500.00	17,246.20	9,633.03	48.27	68.95	-117.86	-3,068.24	-887.23	4,495.73	4,374.30	121.43	37.023	
15,900.00	7,500.00	17,173.94	9,635.13	48.13	68.47	-117.88	-2,996.02	-887.80	4,497.40	4,376.23	121.17	37.116	
16,000.00	7,500.00	17,006.16	9,638.93	48.01	67.37	-117.93	-2,828.29	-888.51	4,498.32	4,378.03	120.29	37.395	
16,100.00	7,500.00	16,931.40	9,639.62	47.89	66.88	-117.93	-2,753.54	-889.01	4,498.98	4,378.95	120.04	37.479	
16,200.00	7,500.00	16,827.96	9,641.01	47.78	66.20	-117.94	-2,650.12	-890.20	4,500.25	4,380.64	119.61	37.626	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,300.00	7,500.00	16,738.40	9,641.48	47.68	65.62	-117.95	-2,560.56	-891.26	4,501.16	4,381.89	119.27	37.739	
16,400.00	7,500.00	16,664.07	9,642.17	47.59	65.14	-117.95	-2,486.25	-892.47	4,502.65	4,383.61	119.04	37.825	
16,500.00	7,500.00	16,574.49	9,643.87	47.51	64.56	-117.96	-2,396.70	-893.99	4,504.63	4,385.90	118.73	37.941	
16,600.00	7,500.00	16,439.97	9,647.10	47.44	63.70	-117.99	-2,262.22	-895.39	4,506.30	4,388.15	118.15	38.140	
16,700.00	7,500.00	16,352.90	9,649.05	47.39	63.14	-118.01	-2,175.17	-895.99	4,507.59	4,389.71	117.88	38.239	
16,800.00	7,500.00	16,241.72	9,650.76	47.34	62.43	-118.03	-2,064.02	-897.46	4,509.10	4,391.63	117.47	38.385	
16,900.00	7,500.00	16,122.83	9,652.36	47.31	61.68	-118.04	-1,945.15	-898.48	4,510.08	4,393.06	117.03	38.539	
17,000.00	7,500.00	16,034.69	9,653.50	47.29	61.13	-118.05	-1,857.02	-899.25	4,511.08	4,394.30	116.78	38.629	
17,100.00	7,500.00	15,933.47	9,654.99	47.28	60.49	-118.07	-1,755.81	-900.13	4,512.14	4,395.68	116.46	38.743	
17,200.00	7,500.00	15,841.45	9,656.17	47.28	59.92	-118.08	-1,663.80	-901.16	4,513.35	4,397.13	116.21	38.837	
17,300.00	7,500.00	15,737.45	9,657.43	47.30	59.27	-118.09	-1,559.82	-902.32	4,514.51	4,398.60	115.90	38.951	
17,400.00	7,500.00	15,555.92	9,659.31	47.33	58.16	-118.10	-1,378.31	-903.44	4,515.45	4,400.28	115.17	39.208	
17,500.00	7,500.00	15,451.97	9,658.94	47.37	57.52	-118.11	-1,274.36	-902.98	4,514.49	4,399.61	114.88	39.297	
17,600.00	7,500.00	15,364.21	9,659.17	47.43	56.99	-118.11	-1,186.60	-902.97	4,514.17	4,399.47	114.70	39.355	
17,700.00	7,500.00	15,224.30	9,659.65	47.50	56.15	-118.13	-1,046.69	-901.96	4,513.32	4,399.07	114.25	39.505	
17,800.00	7,500.00	15,148.16	9,659.88	47.59	55.70	-118.14	-970.57	-901.16	4,512.17	4,398.01	114.16	39.525	
17,900.00	7,500.00	15,072.88	9,660.41	47.69	55.25	-118.15	-895.28	-900.81	4,511.69	4,397.61	114.08	39.547	
18,000.00	7,500.00	14,960.30	9,661.67	47.81	54.58	-118.17	-782.71	-900.35	4,511.49	4,397.67	113.82	39.637	
18,100.00	7,500.00	14,860.11	9,662.92	47.94	54.00	-118.19	-682.54	-899.30	4,510.77	4,397.13	113.63	39.695	
18,200.00	7,500.00	14,732.00	9,663.78	48.08	53.25	-118.21	-554.43	-898.31	4,510.04	4,396.72	113.31	39.801	
18,300.00	7,500.00	14,639.00	9,663.76	48.25	52.72	-118.21	-461.44	-897.56	4,508.93	4,395.75	113.19	39.837	
18,400.00	7,500.00	14,549.58	9,663.74	48.42	52.21	-118.22	-372.02	-897.15	4,508.12	4,395.03	113.08	39.865	
18,461.64	7,500.00	14,480.76	9,663.67	48.54	51.82	-118.22	-303.20	-896.83	4,507.59	4,394.63	112.96	39.906	
18,462.14	7,500.00	14,480.20	9,663.66	49.47	51.82	-118.22	-302.64	-896.82	4,507.59	4,394.63	112.95	39.907	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	29.14	29.14	0.00	0.05	0.99	4,644.12	80.40	4,644.82				
100.00	100.00	119.08	119.08	0.28	0.19	0.99	4,644.28	80.38	4,645.00	4,644.53	0.47	9,986.255	
200.00	200.00	209.04	209.04	0.63	0.35	0.99	4,644.64	80.34	4,645.39	4,644.41	0.98	4,728.302	
300.00	300.00	300.00	300.00	0.99	0.67	0.99	4,645.19	80.16	4,646.00	4,644.33	1.67	2,787.404	
400.00	400.00	389.00	388.99	1.35	0.99	0.98	4,645.97	79.75	4,646.86	4,644.52	2.34	1,982.481	
500.00	500.00	460.86	460.84	1.71	1.25	0.98	4,646.90	79.21	4,648.13	4,645.17	2.96	1,570.348	
600.00	599.98	630.60	630.58	2.06	1.85	-103.36	4,648.23	78.92	4,649.31	4,645.40	3.91	1,190.415	
700.00	699.84	760.16	760.13	2.40	2.29	-103.42	4,648.11	79.51	4,650.49	4,645.81	4.69	991.981	
750.00	749.68	855.45	855.41	2.58	2.61	-103.51	4,646.97	78.63	4,650.74	4,645.56	5.18	897.200	
800.00	799.49	895.81	895.76	2.75	2.75	-103.56	4,646.38	78.00	4,651.03	4,645.53	5.50	846.065	
900.00	899.11	991.88	991.81	3.10	3.08	-103.68	4,645.20	76.22	4,651.82	4,645.64	6.18	752.473	
1,000.00	998.73	1,086.34	1,086.23	3.46	3.41	-103.81	4,644.00	74.01	4,652.60	4,645.74	6.87	677.598	
1,001.27	1,000.00	1,087.45	1,087.34	3.46	3.41	-103.81	4,643.99	73.99	4,652.62	4,645.74	6.87	676.772	
1,100.00	1,098.18	1,172.72	1,172.59	3.81	3.71	-105.90	4,643.11	72.58	4,654.26	4,646.73	7.53	618.422	
1,200.00	1,197.22	1,271.94	1,271.80	4.18	4.06	-107.15	4,642.29	71.42	4,657.41	4,649.18	8.23	565.575	
1,300.00	1,295.71	1,377.56	1,377.41	4.54	4.44	-108.01	4,641.23	70.11	4,661.70	4,652.73	8.97	519.675	
1,400.00	1,393.53	1,463.84	1,463.68	4.91	4.74	-108.62	4,640.38	69.33	4,667.35	4,657.71	9.64	484.137	
1,414.82	1,407.97	1,475.77	1,475.61	4.97	4.78	-108.69	4,640.29	69.29	4,668.33	4,658.60	9.74	479.423	
1,500.00	1,490.88	1,548.69	1,548.53	5.28	5.03	-108.88	4,639.83	69.45	4,674.22	4,663.92	10.31	453.559	
1,600.00	1,588.22	1,650.43	1,650.26	5.66	5.38	-109.14	4,639.31	70.34	4,681.34	4,670.31	11.03	424.456	
1,700.00	1,685.56	1,799.28	1,799.09	6.04	5.90	-109.52	4,637.71	72.28	4,688.03	4,676.11	11.92	393.314	
1,800.00	1,782.90	1,950.33	1,950.09	6.42	6.43	-109.90	4,634.14	73.71	4,693.47	4,680.64	12.82	365.988	
1,900.00	1,880.24	2,033.49	2,033.21	6.80	6.72	-110.10	4,631.83	75.09	4,698.64	4,685.14	13.49	348.188	
2,000.00	1,977.58	2,065.00	2,064.70	7.18	6.83	-110.18	4,631.08	75.81	4,704.62	4,690.64	13.98	336.414	
2,100.00	2,074.91	2,125.68	2,125.37	7.57	7.04	-110.33	4,630.27	76.66	4,711.59	4,697.01	14.58	323.265	
2,200.00	2,172.25	2,171.36	2,171.05	7.95	7.20	-110.45	4,630.41	76.49	4,720.00	4,704.88	15.11	312.347	
2,300.00	2,269.59	2,279.08	2,278.76	8.34	7.57	-110.73	4,631.13	76.14	4,728.95	4,713.08	15.87	298.049	
2,400.00	2,366.93	2,449.05	2,448.72	8.73	8.17	-111.15	4,630.78	78.04	4,737.09	4,720.24	16.84	281.235	
2,500.00	2,464.27	2,528.84	2,528.51	9.11	8.45	-111.36	4,630.08	77.97	4,744.70	4,727.19	17.51	271.031	
2,600.00	2,561.61	2,606.74	2,606.40	9.50	8.72	-111.57	4,629.69	77.15	4,752.83	4,734.67	18.16	261.700	
2,700.00	2,658.95	2,698.28	2,697.89	9.89	9.04	-111.84	4,629.38	74.40	4,761.34	4,742.47	18.87	252.388	
2,800.00	2,756.29	2,788.16	2,787.61	10.28	9.36	-112.13	4,628.94	68.87	4,770.03	4,750.46	19.56	243.830	
2,900.00	2,853.63	2,865.18	2,864.33	10.67	9.63	-112.41	4,628.60	62.16	4,779.12	4,758.90	20.21	236.425	
3,000.00	2,950.97	2,926.00	2,924.78	11.06	9.84	-112.64	4,628.53	55.52	4,788.88	4,768.08	20.81	230.175	
3,100.00	3,048.31	3,006.17	3,004.26	11.45	10.12	-112.97	4,628.67	45.00	4,799.31	4,777.84	21.47	223.569	
3,200.00	3,145.64	3,081.94	3,079.10	11.84	10.39	-113.29	4,628.99	33.22	4,810.38	4,788.27	22.11	217.551	
3,300.00	3,242.98	3,159.01	3,154.91	12.23	10.66	-113.64	4,629.38	19.38	4,822.03	4,799.27	22.76	211.858	
3,400.00	3,340.32	3,239.08	3,233.31	12.62	10.94	-114.03	4,629.81	3.09	4,834.26	4,810.84	23.42	206.408	
3,500.00	3,437.66	3,330.50	3,322.51	13.01	11.26	-114.48	4,630.26	-16.93	4,846.94	4,822.81	24.12	200.910	
3,600.00	3,535.00	3,447.61	3,436.59	13.40	11.68	-115.07	4,630.37	-43.40	4,859.72	4,834.79	24.93	194.939	
3,700.00	3,632.34	3,602.33	3,587.77	13.79	12.24	-115.82	4,629.35	-76.27	4,872.03	4,846.15	25.88	188.242	
3,800.00	3,729.68	3,670.60	3,654.41	14.19	12.48	-116.16	4,628.62	-91.06	4,884.30	4,857.80	26.50	184.285	
3,900.00	3,827.02	3,771.05	3,752.12	14.58	12.85	-116.66	4,627.33	-114.32	4,896.97	4,869.72	27.25	179.694	
4,000.00	3,924.36	3,870.00	3,848.04	14.97	13.21	-117.17	4,625.34	-138.55	4,909.54	4,881.54	28.00	175.369	
4,100.00	4,021.70	3,933.71	3,909.71	15.36	13.45	-117.50	4,624.11	-154.48	4,922.73	4,894.12	28.60	172.119	
4,200.00	4,119.04	3,964.00	3,939.06	15.75	13.56	-117.66	4,623.78	-161.97	4,937.12	4,908.05	29.07	169.843	
4,300.00	4,216.37	4,033.25	4,006.22	16.15	13.81	-118.01	4,623.63	-178.82	4,952.47	4,922.77	29.69	166.794	
4,400.00	4,313.71	4,099.13	4,070.23	16.54	14.06	-118.34	4,624.16	-194.45	4,968.87	4,938.57	30.30	163.986	
4,500.00	4,411.05	4,189.71	4,158.35	16.93	14.39	-118.78	4,625.18	-215.33	4,985.81	4,954.79	31.01	160.773	
4,600.00	4,508.39	4,294.91	4,260.90	17.32	14.78	-119.28	4,626.28	-238.83	5,002.86	4,971.07	31.78	157.397	
4,700.00	4,605.73	4,391.43	4,354.88	17.72	15.14	-119.74	4,626.98	-260.78	5,020.03	4,987.51	32.52	154.354	
4,800.00	4,703.07	4,493.00	4,453.69	18.11	15.52	-120.22	4,627.48	-284.31	5,037.43	5,004.14	33.28	151.349	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	4,565.01	4,523.68	18.50	15.79	-120.57	4,627.67	-301.24	5,055.05	5,021.13	33.92	149.036	
5,000.00	4,897.75	4,625.00	4,582.05	18.90	16.01	-120.85	4,628.36	-315.05	5,073.61	5,039.11	34.50	147.063	
5,100.00	4,995.09	4,699.33	4,654.46	19.29	16.29	-121.20	4,629.65	-331.79	5,092.89	5,057.75	35.14	144.924	
5,200.00	5,092.43	4,843.47	4,795.14	19.68	16.83	-121.85	4,631.81	-363.10	5,112.12	5,076.03	36.09	141.648	
5,300.00	5,189.77	4,969.25	4,918.30	20.07	17.30	-122.39	4,632.94	-388.59	5,130.74	5,093.78	36.96	138.826	
5,400.00	5,287.10	5,055.81	5,003.20	20.47	17.63	-122.76	4,633.59	-405.48	5,149.31	5,111.65	37.65	136.751	
5,500.00	5,384.44	14,845.31	9,860.50	20.86	53.84	165.69	-367.68	-1,558.64	5,118.13	5,061.83	56.30	90.916	
5,600.00	5,481.78	14,844.49	9,860.50	21.25	53.84	165.71	-366.86	-1,558.66	5,044.79	4,988.03	56.75	88.888	
5,700.00	5,579.12	14,851.14	9,860.48	21.65	53.87	165.60	-373.51	-1,558.62	4,972.36	4,915.09	57.27	86.818	
5,800.00	5,676.46	14,857.80	9,860.47	22.04	53.91	165.49	-380.16	-1,558.57	4,900.90	4,843.09	57.81	84.777	
5,900.00	5,773.80	14,864.47	9,860.45	22.43	53.95	165.38	-386.83	-1,558.52	4,830.43	4,772.07	58.36	82.767	
6,000.00	5,871.14	14,871.14	9,860.43	22.83	53.98	165.27	-393.51	-1,558.48	4,761.02	4,702.09	58.93	80.788	
6,100.00	5,968.48	14,877.82	9,860.41	23.22	54.02	165.16	-400.19	-1,558.44	4,692.70	4,633.18	59.52	78.840	
6,200.00	6,065.82	14,884.52	9,860.40	23.61	54.06	165.05	-406.88	-1,558.39	4,625.52	4,565.39	60.13	76.926	
6,300.00	6,163.16	14,891.22	9,860.38	24.01	54.10	164.93	-413.58	-1,558.35	4,559.53	4,498.78	60.76	75.045	
6,400.00	6,260.50	14,897.93	9,860.37	24.40	54.13	164.82	-420.29	-1,558.31	4,494.79	4,433.39	61.41	73.199	
6,500.00	6,357.83	14,904.65	9,860.35	24.79	54.17	164.71	-427.01	-1,558.27	4,431.35	4,369.28	62.07	71.388	
6,600.00	6,455.17	14,911.38	9,860.34	25.19	54.21	164.60	-433.74	-1,558.22	4,369.27	4,306.50	62.76	69.614	
6,700.00	6,552.51	14,918.11	9,860.32	25.58	54.24	164.49	-440.48	-1,558.18	4,308.60	4,245.12	63.48	67.879	
6,800.00	6,649.85	14,926.00	9,860.31	25.98	54.29	164.36	-448.36	-1,558.14	4,249.41	4,185.19	64.21	66.176	
6,900.00	6,747.19	14,946.59	9,860.28	26.37	54.40	164.02	-468.95	-1,557.96	4,191.74	4,126.70	65.04	64.450	
7,000.00	6,844.53	14,973.02	9,860.26	26.76	54.55	163.58	-495.38	-1,557.54	4,135.64	4,069.73	65.91	62.747	
7,100.00	6,941.87	15,001.43	9,860.28	27.16	54.70	163.11	-523.78	-1,556.87	4,081.17	4,014.36	66.81	61.087	
7,115.01	6,956.48	15,005.88	9,860.29	27.22	54.73	163.04	-528.23	-1,556.74	4,073.14	4,006.20	66.95	60.842	
7,150.00	6,990.45	15,020.39	9,860.31	27.35	54.81	151.82	-542.73	-1,556.29	4,054.55	3,987.26	67.29	60.256	
7,200.00	7,038.53	14,994.46	9,860.31	27.55	54.67	141.06	-516.81	-1,556.81	4,028.29	3,960.73	67.57	59.618	
7,250.00	7,085.72	15,007.76	9,860.31	27.75	54.74	134.13	-530.11	-1,556.56	4,002.84	3,934.80	68.04	58.830	
7,300.00	7,131.67	15,041.60	9,860.32	27.94	54.93	129.82	-563.94	-1,555.69	3,978.10	3,909.48	68.61	57.978	
7,350.00	7,176.02	15,053.43	9,860.31	28.13	54.99	127.67	-575.76	-1,555.43	3,954.38	3,885.29	69.09	57.237	
7,400.00	7,218.44	15,067.26	9,860.27	28.32	55.07	126.58	-589.59	-1,555.18	3,931.83	3,862.25	69.57	56.513	
7,450.00	7,258.60	15,082.98	9,860.21	28.50	55.16	126.13	-605.31	-1,555.00	3,910.59	3,840.53	70.07	55.812	
7,500.00	7,296.21	15,113.00	9,860.01	28.67	55.33	125.94	-635.33	-1,554.90	3,890.86	3,820.24	70.62	55.093	
7,550.00	7,330.97	15,123.72	9,859.92	28.84	55.39	126.19	-646.05	-1,554.93	3,872.64	3,801.56	71.09	54.478	
7,600.00	7,362.62	15,157.52	9,859.67	28.99	55.58	126.36	-679.84	-1,555.02	3,856.07	3,784.43	71.65	53.821	
7,650.00	7,390.91	15,193.75	9,859.47	29.15	55.78	126.61	-716.07	-1,555.12	3,841.16	3,768.96	72.20	53.198	
7,700.00	7,415.64	15,227.71	9,859.33	29.30	55.98	126.91	-750.03	-1,555.25	3,827.99	3,755.26	72.74	52.626	
7,750.00	7,436.62	15,260.84	9,859.24	29.44	56.16	127.23	-783.17	-1,555.46	3,816.68	3,743.42	73.25	52.102	
7,800.00	7,453.68	15,301.00	9,859.20	29.57	56.39	127.50	-823.32	-1,555.84	3,807.28	3,733.50	73.78	51.603	
7,825.96	7,460.95	15,301.00	9,859.20	29.64	56.39	127.71	-823.32	-1,555.84	3,803.19	3,729.24	73.95	51.430	
7,900.00	7,477.79	15,345.60	9,859.28	29.84	56.65	127.94	-867.91	-1,556.60	3,794.09	3,719.47	74.62	50.844	
8,000.00	7,493.08	15,556.52	9,859.53	30.11	57.87	127.86	-1,078.79	-1,559.48	3,786.75	3,710.55	76.20	49.694	
8,100.00	7,499.70	15,640.75	9,859.50	30.38	58.36	127.97	-1,163.01	-1,558.55	3,782.17	3,705.01	77.16	49.019	
8,124.75	7,499.99	15,657.93	9,859.58	30.44	58.46	127.98	-1,180.19	-1,558.40	3,781.98	3,704.61	77.37	48.882	
8,125.95	7,499.99	15,658.77	9,859.58	30.45	58.47	127.98	-1,181.03	-1,558.39	3,781.98	3,704.60	77.38	48.875	
8,200.00	7,499.99	15,712.33	9,859.94	30.65	58.78	127.98	-1,234.59	-1,558.11	3,782.24	3,704.21	78.03	48.473	
8,300.00	7,499.99	15,884.33	9,860.15	30.94	59.80	127.98	-1,406.59	-1,557.35	3,782.62	3,703.23	79.39	47.645	
8,400.00	7,499.99	15,973.89	9,859.34	31.24	60.33	127.98	-1,496.13	-1,556.24	3,781.46	3,701.07	80.39	47.039	
8,500.00	7,499.99	16,167.65	9,856.83	31.56	61.50	127.98	-1,689.83	-1,552.64	3,779.88	3,697.98	81.90	46.150	
8,600.00	7,500.00	16,239.00	9,856.10	31.88	61.93	127.98	-1,761.14	-1,550.49	3,777.11	3,694.26	82.85	45.588	
8,700.00	7,500.00	16,283.29	9,856.14	32.22	62.20	127.99	-1,805.42	-1,549.40	3,775.32	3,691.64	83.68	45.117	
8,800.00	7,500.00	16,333.00	9,855.99	32.58	62.51	128.00	-1,855.12	-1,548.68	3,774.54	3,690.00	84.54	44.649	
8,839.16	7,500.00	16,374.89	9,855.72	32.72	62.76	127.99	-1,897.01	-1,548.53	3,774.40	3,689.41	84.99	44.407	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,500.00	16,427.00	9,855.19	32.94	63.08	127.98	-1,949.11	-1,548.98	3,774.63	3,688.99	85.64	44.076	
9,000.00	7,500.00	16,709.00	9,844.53	33.32	64.84	127.84	-2,230.73	-1,549.32	3,773.32	3,685.58	87.74	43.004	
9,100.00	7,500.00	16,755.95	9,843.11	33.71	65.14	127.83	-2,277.63	-1,547.62	3,769.22	3,680.57	88.65	42.519	
9,200.00	7,500.00	16,803.00	9,842.00	34.11	65.43	127.82	-2,324.66	-1,547.07	3,766.97	3,677.41	89.55	42.063	
9,300.00	7,500.00	16,848.74	9,841.16	34.52	65.72	127.81	-2,370.39	-1,547.19	3,766.13	3,675.67	90.46	41.634	
9,344.13	7,500.00	16,880.34	9,840.66	34.70	65.92	127.80	-2,401.99	-1,547.37	3,766.06	3,675.14	90.92	41.422	
9,400.00	7,500.00	16,930.24	9,839.98	34.94	66.23	127.79	-2,451.88	-1,547.75	3,766.13	3,674.57	91.56	41.133	
9,500.00	7,500.00	17,012.41	9,839.08	35.37	66.75	127.77	-2,534.04	-1,548.29	3,766.37	3,673.70	92.67	40.642	
9,600.00	7,500.00	17,085.00	9,839.94	35.81	67.21	127.77	-2,606.62	-1,548.62	3,767.70	3,673.97	93.73	40.196	
9,700.00	7,500.00	17,300.29	9,841.08	36.26	68.58	127.80	-2,821.87	-1,546.05	3,767.34	3,671.75	95.59	39.411	
9,800.00	7,500.00	17,461.00	9,837.37	36.73	69.62	127.77	-2,982.51	-1,544.25	3,765.75	3,668.58	97.16	38.757	
9,900.00	7,500.00	17,497.05	9,837.14	37.20	69.85	127.77	-3,018.54	-1,543.06	3,763.22	3,665.14	98.07	38.371	
10,000.00	7,500.00	17,555.00	9,837.78	37.68	70.22	127.78	-3,076.48	-1,542.33	3,762.80	3,663.70	99.10	37.970	
10,018.65	7,500.00	17,555.00	9,837.78	37.77	70.22	127.78	-3,076.48	-1,542.33	3,762.76	3,663.53	99.23	37.920	
10,100.00	7,500.00	17,614.79	9,838.44	38.17	70.61	127.79	-3,136.26	-1,541.98	3,763.16	3,663.03	100.13	37.581	
10,200.00	7,500.00	17,743.00	9,840.82	38.66	71.44	127.84	-3,264.41	-1,539.52	3,763.08	3,661.52	101.56	37.051	
10,205.70	7,500.00	17,743.00	9,840.82	38.69	71.44	127.84	-3,264.41	-1,539.52	3,763.07	3,661.47	101.60	37.037	
10,300.00	7,500.00	17,802.98	9,842.48	39.17	71.84	127.87	-3,324.35	-1,538.32	3,763.52	3,660.91	102.61	36.678	
10,400.00	7,500.00	17,911.89	9,842.41	39.68	72.55	127.85	-3,433.25	-1,539.31	3,764.57	3,660.62	103.96	36.213	
10,500.00	7,500.00	17,992.24	9,842.52	40.20	73.07	127.85	-3,513.60	-1,539.63	3,765.37	3,660.23	105.14	35.813	
10,600.00	7,500.00	18,066.61	9,843.26	40.73	73.56	127.85	-3,587.97	-1,540.17	3,766.91	3,660.62	106.29	35.441	
10,700.00	7,500.00	18,157.06	9,843.88	41.26	74.16	127.84	-3,678.41	-1,541.68	3,769.00	3,661.46	107.54	35.047	
10,800.00	7,500.00	18,266.64	9,844.52	41.80	74.88	127.82	-3,787.97	-1,543.39	3,770.94	3,662.02	108.92	34.620	
10,900.00	7,500.00	18,366.77	9,845.00	42.35	75.55	127.81	-3,888.09	-1,544.88	3,772.77	3,662.52	110.25	34.220	
11,000.00	7,500.00	18,486.20	9,845.70	42.91	76.34	127.80	-4,007.51	-1,546.32	3,774.47	3,662.76	111.71	33.789	
11,100.00	7,500.00	18,740.25	9,847.24	43.47	78.04	127.85	-4,261.46	-1,541.52	3,773.62	3,659.67	113.95	33.116	
11,200.00	7,500.00	18,870.00	9,845.21	44.03	78.91	127.87	-4,391.09	-1,536.89	3,770.12	3,654.66	115.46	32.652	
11,300.00	7,500.00	18,953.29	9,846.06	44.61	79.47	127.91	-4,474.27	-1,532.69	3,767.07	3,650.36	116.72	32.275	
11,400.00	7,500.00	19,056.95	9,847.02	45.18	80.17	127.97	-4,577.79	-1,527.33	3,763.93	3,645.84	118.09	31.874	
11,500.00	7,500.00	19,105.40	9,847.55	45.77	80.49	128.00	-4,626.18	-1,525.15	3,761.41	3,642.26	119.16	31.567	
11,581.32	7,500.00	19,152.00	9,848.14	46.24	80.81	128.01	-4,672.76	-1,523.80	3,760.41	3,640.35	120.06	31.321	
11,588.65	7,500.00	19,152.00	9,848.14	46.29	80.81	128.01	-4,672.76	-1,523.80	3,760.38	3,640.26	120.12	31.306	CC
11,600.00	7,500.00	19,154.70	9,848.17	46.35	80.83	128.02	-4,675.46	-1,523.75	3,760.45	3,640.23	120.22	31.280	ES
11,650.00	7,500.00	19,203.14	9,848.75	46.65	81.16	128.09	-4,723.89	-1,522.79	3,762.32	3,641.42	120.90	31.119	
11,700.00	7,500.00	19,246.00	9,849.17	46.96	81.45	128.23	-4,766.74	-1,522.05	3,766.58	3,645.03	121.55	30.987	
11,750.00	7,500.00	19,283.61	9,849.50	47.27	81.70	128.48	-4,804.34	-1,521.54	3,773.35	3,651.17	122.18	30.884	
11,800.00	7,500.00	19,316.94	9,849.79	47.59	81.93	128.82	-4,837.67	-1,521.27	3,782.67	3,659.89	122.78	30.809	
11,850.00	7,500.00	19,340.00	9,849.99	47.91	82.09	129.29	-4,860.73	-1,521.18	3,794.52	3,671.21	123.31	30.771	
11,900.00	7,500.00	19,380.04	9,850.33	48.23	82.36	129.82	-4,900.76	-1,521.26	3,808.83	3,684.87	123.96	30.726	
11,950.00	7,500.00	19,409.88	9,850.56	48.56	82.56	130.49	-4,930.60	-1,521.50	3,825.59	3,701.05	124.54	30.718	SF
12,000.00	7,500.00	19,434.00	9,850.74	48.88	82.73	131.32	-4,954.72	-1,521.82	3,844.74	3,719.66	125.07	30.740	
12,050.00	7,500.00	19,471.47	9,851.05	49.20	82.98	132.20	-4,992.18	-1,522.44	3,866.15	3,740.45	125.70	30.758	
12,100.00	7,500.00	19,502.16	9,851.35	49.52	83.19	133.26	-5,022.86	-1,523.03	3,889.75	3,763.48	126.27	30.805	
12,150.00	7,500.00	19,529.00	9,851.65	49.83	83.37	134.51	-5,049.70	-1,523.59	3,915.45	3,788.64	126.81	30.877	
12,200.00	7,500.00	19,556.89	9,851.93	50.14	83.56	135.92	-5,077.58	-1,524.28	3,943.17	3,815.82	127.35	30.963	
12,250.00	7,500.00	19,580.83	9,852.12	50.44	83.73	137.56	-5,101.51	-1,525.01	3,972.82	3,844.96	127.85	31.073	
12,300.00	7,500.00	19,602.94	9,852.24	50.74	83.88	139.43	-5,123.60	-1,525.78	4,004.28	3,875.95	128.33	31.202	
12,350.00	7,500.00	19,622.00	9,852.30	51.02	84.01	141.59	-5,142.65	-1,526.53	4,037.46	3,908.68	128.78	31.351	
12,400.00	7,500.00	19,622.00	9,852.30	51.30	84.01	144.28	-5,142.65	-1,526.53	4,072.28	3,943.21	129.07	31.551	
12,450.00	7,500.00	19,648.70	9,852.39	51.56	84.19	146.91	-5,169.33	-1,527.71	4,108.48	3,978.93	129.55	31.713	
12,500.00	7,500.00	19,659.38	9,852.44	51.81	84.26	150.12	-5,179.99	-1,528.24	4,146.06	4,016.16	129.90	31.918	
12,550.00	7,500.00	19,668.53	9,852.49	52.05	84.33	153.72	-5,189.13	-1,528.70	4,184.82	4,054.60	130.22	32.137	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.00	7,500.00	19,676.14	9,852.53	52.27	84.38	157.73	-5,196.73	-1,529.11	4,224.60	4,094.09	130.51	32.369	
12,650.00	7,500.00	19,682.21	9,852.56	52.48	84.42	162.16	-5,202.79	-1,529.44	4,265.25	4,134.47	130.78	32.614	
12,700.00	7,500.00	19,686.74	9,852.59	52.67	84.45	166.99	-5,207.31	-1,529.70	4,306.61	4,175.59	131.02	32.870	
12,750.00	7,500.00	19,709.00	9,852.75	52.84	84.60	171.70	-5,229.53	-1,531.02	4,348.60	4,217.21	131.40	33.095	
12,800.00	7,500.00	19,709.00	9,852.75	53.00	84.60	177.18	-5,229.53	-1,531.02	4,390.88	4,259.31	131.57	33.372	
12,850.00	7,500.00	19,709.00	9,852.75	53.14	84.60	-177.20	-5,229.53	-1,531.02	4,433.41	4,301.67	131.74	33.653	
12,900.00	7,500.00	19,709.00	9,852.75	53.27	84.60	-171.58	-5,229.53	-1,531.02	4,476.00	4,344.11	131.89	33.938	
12,950.00	7,500.00	19,709.00	9,852.75	53.37	84.60	-166.07	-5,229.53	-1,531.02	4,518.52	4,386.50	132.03	34.224	
13,000.00	7,500.00	19,682.53	9,852.57	53.46	84.42	-160.23	-5,203.11	-1,529.46	4,560.65	4,428.72	131.93	34.569	
13,050.00	7,500.00	19,676.86	9,852.53	53.53	84.38	-155.20	-5,197.45	-1,529.15	4,602.49	4,470.49	132.00	34.868	
13,100.00	7,500.00	19,669.87	9,852.49	53.58	84.34	-150.54	-5,190.46	-1,528.77	4,643.76	4,511.72	132.04	35.168	
13,150.00	7,500.00	19,661.60	9,852.45	53.62	84.28	-146.29	-5,182.20	-1,528.35	4,684.34	4,552.27	132.07	35.469	
13,200.00	7,500.00	19,652.10	9,852.41	53.63	84.21	-142.46	-5,172.72	-1,527.88	4,724.06	4,591.99	132.07	35.768	
13,250.00	7,500.00	19,622.00	9,852.30	53.63	84.01	-138.78	-5,142.65	-1,526.53	4,762.89	4,630.99	131.90	36.110	
13,300.00	7,500.00	19,622.00	9,852.30	53.62	84.01	-135.87	-5,142.65	-1,526.53	4,800.43	4,668.46	131.97	36.375	
13,350.00	7,500.00	19,622.00	9,852.30	53.58	84.01	-133.29	-5,142.65	-1,526.53	4,836.79	4,704.76	132.03	36.633	
13,400.00	7,500.00	19,596.80	9,852.21	53.54	83.84	-130.79	-5,117.47	-1,525.56	4,871.75	4,739.87	131.88	36.941	
13,450.00	7,500.00	19,577.27	9,852.10	53.48	83.70	-128.64	-5,097.95	-1,524.89	4,905.20	4,773.43	131.77	37.226	
13,500.00	7,500.00	19,556.58	9,851.93	53.40	83.56	-126.74	-5,077.27	-1,524.28	4,937.01	4,805.37	131.64	37.503	
13,550.00	7,500.00	19,529.00	9,851.65	53.32	83.37	-125.05	-5,049.70	-1,523.59	4,967.08	4,835.62	131.46	37.784	
13,600.00	7,500.00	19,508.76	9,851.42	53.22	83.24	-123.61	-5,029.47	-1,523.16	4,995.27	4,863.94	131.33	38.035	
13,650.00	7,500.00	19,480.42	9,851.13	53.12	83.04	-122.32	-5,001.13	-1,522.60	5,021.49	4,890.35	131.14	38.291	
13,700.00	7,500.00	19,450.94	9,850.87	53.00	82.84	-121.19	-4,971.66	-1,522.09	5,045.63	4,914.69	130.94	38.535	
13,750.00	7,500.00	19,434.00	9,850.74	52.88	82.73	-120.27	-4,954.72	-1,521.82	5,067.63	4,936.80	130.83	38.734	
13,800.00	7,500.00	19,398.35	9,850.47	52.75	82.48	-119.42	-4,919.08	-1,521.39	5,087.40	4,956.82	130.58	38.960	
13,850.00	7,500.00	19,372.87	9,850.27	52.61	82.31	-118.72	-4,893.59	-1,521.22	5,104.94	4,974.53	130.41	39.145	
13,900.00	7,500.00	19,340.00	9,849.99	52.48	82.09	-118.13	-4,860.73	-1,521.18	5,120.17	4,989.99	130.18	39.330	
13,950.00	7,500.00	19,319.22	9,849.81	52.33	81.94	-117.66	-4,839.95	-1,521.26	5,133.03	5,002.98	130.05	39.470	
14,000.00	7,500.00	19,290.78	9,849.56	52.19	81.75	-117.28	-4,811.51	-1,521.47	5,143.48	5,013.62	129.86	39.608	
14,050.00	7,500.00	19,246.00	9,849.17	52.05	81.45	-116.98	-4,766.74	-1,522.05	5,151.52	5,021.97	129.55	39.764	
14,100.00	7,500.00	19,226.00	9,848.98	51.90	81.31	-116.80	-4,746.74	-1,522.38	5,156.98	5,027.55	129.43	39.844	
14,105.32	7,500.00	19,221.23	9,848.94	51.89	81.28	-116.78	-4,741.97	-1,522.47	5,157.41	5,028.02	129.40	39.857	
14,200.00	7,500.00	19,152.00	9,848.14	51.63	80.81	-116.69	-4,672.76	-1,523.80	5,163.57	5,034.62	128.95	40.045	
14,300.00	7,500.00	19,107.73	9,847.58	51.35	80.51	-116.63	-4,628.51	-1,525.06	5,167.87	5,039.19	128.68	40.161	
14,333.98	7,500.00	19,094.93	9,847.43	51.26	80.42	-116.62	-4,615.72	-1,525.55	5,168.90	5,040.30	128.60	40.193	
14,400.00	7,500.00	19,058.00	9,847.03	51.09	80.17	-116.61	-4,578.83	-1,527.28	5,170.99	5,042.62	128.37	40.281	
14,500.00	7,500.00	18,984.77	9,846.33	50.84	79.68	-116.58	-4,505.70	-1,531.09	5,174.74	5,046.83	127.91	40.456	
14,600.00	7,500.00	18,874.52	9,845.26	50.59	78.94	-116.55	-4,395.60	-1,536.66	5,178.43	5,051.22	127.21	40.706	
14,700.00	7,500.00	18,736.41	9,847.28	50.35	78.01	-116.54	-4,257.63	-1,541.64	5,182.02	5,055.67	126.35	41.013	
14,800.00	7,500.00	18,383.41	9,845.05	50.12	75.66	-116.51	-3,904.72	-1,545.15	5,181.73	5,057.72	124.01	41.785	
14,900.00	7,500.00	18,289.01	9,844.65	49.90	75.03	-116.52	-3,810.34	-1,543.71	5,179.77	5,056.29	123.48	41.948	
15,000.00	7,500.00	18,177.44	9,844.00	49.69	74.29	-116.52	-3,698.79	-1,542.03	5,177.78	5,054.93	122.84	42.149	
15,100.00	7,500.00	18,083.55	9,843.41	49.48	73.67	-116.53	-3,604.91	-1,540.39	5,175.55	5,053.20	122.35	42.303	
15,200.00	7,500.00	18,025.00	9,842.83	49.28	73.29	-116.53	-3,546.36	-1,539.81	5,173.86	5,051.75	122.10	42.374	
15,300.00	7,500.00	17,949.72	9,842.36	49.09	72.79	-116.52	-3,471.09	-1,539.45	5,172.78	5,051.04	121.75	42.488	
15,400.00	7,500.00	17,837.00	9,842.64	48.91	72.06	-116.53	-3,358.37	-1,538.53	5,171.75	5,050.60	121.15	42.688	
15,500.00	7,500.00	17,782.55	9,842.11	48.74	71.70	-116.53	-3,303.92	-1,538.51	5,171.03	5,050.08	120.95	42.753	
15,510.13	7,500.00	17,778.34	9,842.01	48.72	71.68	-116.53	-3,299.72	-1,538.57	5,171.02	5,050.08	120.94	42.757	
15,600.00	7,500.00	17,737.44	9,840.59	48.57	71.41	-116.51	-3,258.86	-1,539.72	5,171.48	5,050.67	120.81	42.808	
15,700.00	7,500.00	17,555.00	9,837.78	48.42	70.22	-116.47	-3,076.48	-1,542.33	5,171.72	5,051.93	119.79	43.174	
15,765.85	7,500.00	17,555.00	9,837.78	48.32	70.22	-116.47	-3,076.48	-1,542.33	5,171.72	5,051.82	119.90	43.134	
15,800.00	7,500.00	17,519.45	9,837.24	48.27	69.99	-116.47	-3,040.94	-1,542.60	5,171.57	5,051.84	119.73	43.194	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,900.00	7,500.00	17,461.00	9,837.37	48.13	69.62	-116.46	-2,982.51	-1,544.25	5,173.29	5,053.76	119.52	43.283	
16,000.00	7,500.00	17,337.11	9,840.49	48.01	68.82	-116.49	-2,858.68	-1,545.64	5,175.15	5,056.21	118.94	43.511	
16,100.00	7,500.00	17,253.31	9,841.16	47.89	68.28	-116.49	-2,774.91	-1,547.11	5,176.61	5,058.01	118.60	43.647	
16,200.00	7,500.00	17,032.35	9,839.11	47.78	66.88	-116.47	-2,553.98	-1,548.39	5,175.86	5,058.42	117.44	44.071	
16,300.00	7,500.00	16,965.03	9,839.54	47.68	66.45	-116.48	-2,486.66	-1,548.00	5,175.19	5,057.95	117.24	44.142	
16,400.00	7,500.00	16,873.57	9,840.76	47.59	65.87	-116.49	-2,395.21	-1,547.32	5,174.73	5,057.83	116.90	44.264	
16,442.40	7,500.00	16,845.83	9,841.21	47.56	65.70	-116.50	-2,367.48	-1,547.18	5,174.67	5,057.84	116.83	44.292	
16,500.00	7,500.00	16,803.00	9,842.00	47.51	65.43	-116.51	-2,324.66	-1,547.07	5,174.79	5,058.09	116.70	44.343	
16,600.00	7,500.00	16,803.00	9,842.00	47.44	65.43	-116.51	-2,324.66	-1,547.07	5,176.04	5,059.15	116.89	44.281	
16,700.00	7,500.00	16,751.91	9,843.22	47.39	65.11	-116.52	-2,273.58	-1,547.72	5,178.27	5,061.48	116.79	44.339	
16,800.00	7,500.00	16,427.00	9,855.19	47.34	63.08	-116.64	-1,949.11	-1,548.98	5,181.24	5,066.00	115.23	44.963	
16,900.00	7,500.00	16,376.38	9,855.70	47.31	62.77	-116.65	-1,898.49	-1,548.53	5,180.52	5,065.34	115.18	44.976	
16,922.29	7,500.00	16,365.45	9,855.79	47.30	62.70	-116.65	-1,887.57	-1,548.52	5,180.50	5,065.32	115.18	44.979	
17,000.00	7,500.00	16,333.00	9,855.99	47.29	62.51	-116.65	-1,855.12	-1,548.68	5,180.80	5,065.63	115.17	44.983	
17,100.00	7,500.00	16,271.01	9,856.14	47.28	62.13	-116.65	-1,793.14	-1,549.66	5,181.97	5,066.92	115.06	45.038	
17,200.00	7,500.00	16,239.00	9,856.10	47.28	61.93	-116.64	-1,761.14	-1,550.49	5,184.11	5,069.01	115.10	45.041	
17,300.00	7,500.00	16,104.85	9,858.07	47.30	61.12	-116.65	-1,627.06	-1,554.22	5,186.91	5,072.28	114.63	45.249	
17,400.00	7,500.00	15,942.07	9,859.67	47.33	60.14	-116.65	-1,464.31	-1,556.57	5,188.04	5,074.01	114.03	45.495	
17,500.00	7,500.00	15,742.64	9,860.12	47.37	58.96	-116.66	-1,264.90	-1,558.12	5,188.76	5,075.50	113.26	45.812	
17,600.00	7,500.00	15,676.00	9,859.69	47.43	58.57	-116.65	-1,198.26	-1,558.27	5,188.25	5,075.07	113.18	45.840	
17,631.33	7,500.00	15,659.42	9,859.58	47.45	58.47	-116.65	-1,181.69	-1,558.39	5,188.23	5,075.05	113.18	45.840	
17,700.00	7,500.00	15,615.10	9,859.44	47.50	58.21	-116.65	-1,137.36	-1,558.80	5,188.43	5,075.30	113.13	45.861	
17,800.00	7,500.00	15,347.80	9,859.29	47.59	56.66	-116.66	-870.12	-1,556.65	5,187.20	5,075.12	112.08	46.281	
17,900.00	7,500.00	15,301.00	9,859.20	47.69	56.39	-116.67	-823.32	-1,555.84	5,185.09	5,072.94	112.14	46.236	
18,000.00	7,500.00	15,244.03	9,859.28	47.81	56.07	-116.67	-766.36	-1,555.34	5,183.91	5,071.75	112.16	46.219	
18,100.00	7,500.00	15,167.92	9,859.61	47.94	55.64	-116.68	-690.24	-1,555.05	5,183.35	5,071.27	112.09	46.244	
18,174.57	7,500.00	15,113.00	9,860.01	48.05	55.33	-116.68	-635.33	-1,554.90	5,183.14	5,071.10	112.04	46.260	
18,200.00	7,500.00	15,113.00	9,860.01	48.08	55.33	-116.68	-635.33	-1,554.90	5,183.21	5,071.09	112.11	46.231	
18,300.00	7,500.00	15,057.70	9,860.30	48.25	55.02	-116.69	-580.03	-1,555.34	5,183.93	5,071.79	112.14	46.227	
18,400.00	7,500.00	14,900.81	9,860.36	48.42	54.15	-116.68	-423.17	-1,558.29	5,185.51	5,073.78	111.73	46.411	
18,461.64	7,500.00	14,807.26	9,860.59	48.54	53.63	-116.68	-329.62	-1,558.74	5,185.66	5,074.16	111.50	46.507	
18,462.14	7,500.00	14,806.75	9,860.59	49.47	53.63	-116.68	-329.12	-1,558.74	5,185.66	5,074.16	111.50	46.508	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	162.86	-332.67	102.57	348.12				
100.00	100.00	95.97	95.96	0.28	0.16	163.05	-333.40	101.63	348.55	348.12	0.43	812.516	
200.00	200.00	193.86	193.79	0.63	0.42	163.56	-335.48	98.97	349.82	348.77	1.05	334.372	
300.00	300.00	294.04	293.86	0.99	0.78	164.27	-338.07	95.21	351.26	349.49	1.77	198.610	
400.00	400.00	393.40	393.09	1.35	1.14	165.06	-340.85	90.94	352.82	350.33	2.49	141.712	
500.00	500.00	492.71	492.28	1.71	1.50	165.84	-343.80	86.72	354.63	351.42	3.21	110.458	
600.00	599.98	591.75	591.19	2.06	1.87	62.48	-346.82	82.77	355.84	351.92	3.92	90.790	
700.00	699.84	691.38	690.68	2.40	2.23	63.98	-350.05	78.70	355.77	351.14	4.62	76.932	
750.00	749.68	741.46	740.72	2.58	2.41	64.82	-351.48	77.35	355.21	350.23	4.98	71.354	
800.00	799.49	791.65	790.90	2.75	2.59	65.60	-352.71	76.75	354.48	349.15	5.33	66.523	
900.00	899.11	892.37	891.60	3.10	2.94	66.87	-354.67	77.26	352.96	346.93	6.03	58.563	
1,000.00	998.73	992.57	991.78	3.46	3.28	68.08	-356.32	78.14	351.37	344.64	6.72	52.252	
1,001.27	1,000.00	993.85	993.05	3.46	3.29	68.09	-356.34	78.15	351.35	344.62	6.73	52.180	
1,100.00	1,098.18	1,093.60	1,092.79	3.81	3.63	67.62	-357.74	78.91	348.90	341.47	7.43	46.959	
1,200.00	1,197.22	1,193.25	1,192.44	4.18	3.98	68.55	-358.81	79.78	344.83	336.69	8.13	42.394	
1,300.00	1,295.71	1,290.37	1,289.54	4.54	4.32	70.41	-360.09	80.70	340.05	331.21	8.83	38.491	
1,400.00	1,393.53	1,389.24	1,388.40	4.91	4.66	73.14	-361.45	81.79	334.83	325.29	9.55	35.071	
1,414.82	1,407.97	1,403.82	1,402.97	4.97	4.71	73.61	-361.63	81.95	334.03	324.38	9.65	34.603	
1,500.00	1,490.88	1,487.36	1,486.50	5.28	5.01	76.67	-362.60	82.70	329.86	319.60	10.26	32.141	
1,600.00	1,588.22	1,585.07	1,584.20	5.66	5.35	80.37	-363.63	83.39	326.17	315.18	10.98	29.696	
1,700.00	1,685.56	1,682.62	1,681.75	6.04	5.70	84.17	-364.62	83.82	323.93	312.22	11.71	27.666	
1,800.00	1,782.90	1,780.61	1,779.74	6.42	6.05	88.08	-365.46	83.97	323.15	310.71	12.44	25.978	
1,808.20	1,790.88	1,788.69	1,787.81	6.45	6.08	88.40	-365.52	83.98	323.15	310.65	12.50	25.853	CC
1,900.00	1,880.24	1,879.17	1,878.29	6.80	6.40	92.02	-366.02	84.13	323.67	310.50	13.17	24.571	ES
2,000.00	1,977.58	1,979.26	1,978.38	7.18	6.75	95.92	-366.33	84.90	325.28	311.37	13.91	23.388	
2,100.00	2,074.91	2,076.70	2,075.80	7.57	7.09	99.46	-366.46	87.09	327.54	312.91	14.63	22.384	
2,200.00	2,172.25	2,173.62	2,172.67	7.95	7.42	102.75	-367.75	89.76	331.82	316.46	15.36	21.604	
2,300.00	2,269.59	2,273.50	2,272.45	8.34	7.77	105.84	-369.41	93.77	336.78	320.68	16.10	20.920	
2,400.00	2,366.93	2,371.99	2,370.81	8.73	8.12	108.69	-371.17	98.43	342.36	325.53	16.83	20.338	
2,500.00	2,464.27	2,468.36	2,467.14	9.11	8.46	111.73	-371.74	101.16	349.11	331.55	17.56	19.883	
2,600.00	2,561.61	2,567.43	2,566.20	9.50	8.80	114.95	-371.57	102.72	357.19	338.90	18.29	19.528	
2,700.00	2,658.95	2,665.17	2,663.91	9.89	9.14	117.94	-371.34	104.86	365.86	346.84	19.02	19.236	
2,800.00	2,756.29	2,762.69	2,761.42	10.28	9.48	120.76	-371.32	106.89	375.72	355.97	19.75	19.026	
2,900.00	2,853.63	2,861.07	2,859.77	10.67	9.82	123.46	-371.23	109.00	386.39	365.91	20.48	18.867	
3,000.00	2,950.97	2,959.40	2,958.08	11.06	10.17	126.01	-371.09	111.27	397.71	376.50	21.21	18.751	
3,100.00	3,048.31	3,057.08	3,055.73	11.45	10.51	128.42	-370.85	113.52	409.74	387.80	21.94	18.677	
3,200.00	3,145.64	3,154.28	3,152.90	11.84	10.85	130.67	-370.63	115.68	422.53	399.87	22.66	18.644	
3,300.00	3,242.98	3,253.84	3,252.44	12.23	11.20	132.85	-370.34	117.95	435.88	412.48	23.40	18.627	
3,400.00	3,340.32	3,351.53	3,350.10	12.62	11.55	134.84	-370.15	120.50	449.56	425.43	24.13	18.632	
3,500.00	3,437.66	3,448.00	3,446.54	13.01	11.89	136.68	-370.00	122.88	463.88	439.03	24.85	18.667	
3,600.00	3,535.00	3,544.20	3,542.71	13.40	12.23	138.43	-369.84	124.91	479.00	453.43	25.57	18.733	
3,700.00	3,632.34	3,642.78	3,641.27	13.79	12.58	140.13	-369.66	126.88	494.65	468.34	26.30	18.806	
3,800.00	3,729.68	3,739.42	3,737.89	14.19	12.92	141.68	-369.50	128.79	510.71	483.69	27.02	18.899	
3,900.00	3,827.02	3,835.29	3,833.75	14.58	13.26	143.12	-369.53	130.41	527.46	499.72	27.74	19.014	
4,000.00	3,924.36	3,933.94	3,932.38	14.97	13.61	144.49	-369.77	132.13	544.54	516.06	28.48	19.122	
4,100.00	4,021.70	4,029.62	4,028.06	15.36	13.95	145.75	-369.98	133.63	562.06	532.87	29.19	19.253	
4,200.00	4,119.04	4,127.41	4,125.84	15.75	14.30	146.95	-370.28	135.06	579.97	550.05	29.92	19.381	
4,300.00	4,216.37	4,224.39	4,222.80	16.15	14.65	148.06	-370.74	136.47	598.15	567.50	30.65	19.515	
4,400.00	4,313.71	4,320.54	4,318.94	16.54	14.99	149.07	-371.49	137.72	616.74	585.37	31.37	19.659	
4,500.00	4,411.05	4,417.51	4,415.90	16.93	15.34	150.03	-372.20	138.80	635.70	603.60	32.10	19.804	
4,600.00	4,508.39	4,515.25	4,513.63	17.32	15.69	150.95	-372.96	139.87	654.83	622.00	32.83	19.945	
4,700.00	4,605.73	4,612.37	4,610.74	17.72	16.04	151.80	-373.74	140.91	674.16	640.60	33.56	20.087	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,703.07	4,708.87	4,707.24	18.11	16.38	152.61	-374.49	141.85	693.71	659.43	34.29	20.234	
4,900.00	4,800.41	4,804.53	4,802.89	18.50	16.72	153.36	-375.31	142.53	713.65	678.65	35.00	20.388	
5,000.00	4,897.75	4,901.09	4,899.44	18.90	17.07	154.07	-376.33	143.07	733.89	698.16	35.73	20.542	
5,100.00	4,995.09	4,998.48	4,996.83	19.29	17.42	154.74	-377.33	143.51	754.32	717.86	36.46	20.691	
5,200.00	5,092.43	5,097.72	5,096.06	19.68	17.77	155.39	-378.41	144.06	774.76	737.56	37.20	20.827	
5,300.00	5,189.77	5,196.41	5,194.74	20.07	18.12	156.00	-379.47	144.89	795.01	757.07	37.94	20.954	
5,400.00	5,287.10	5,294.66	5,292.99	20.47	18.47	156.57	-380.63	145.71	815.35	776.67	38.68	21.080	
5,500.00	5,384.44	5,392.38	5,390.69	20.86	18.82	157.09	-382.00	146.71	835.60	796.19	39.41	21.201	
5,600.00	5,481.78	5,486.48	5,484.77	21.25	19.16	157.57	-383.45	147.46	856.13	816.01	40.12	21.339	
5,700.00	5,579.12	5,580.96	5,579.24	21.65	19.50	158.02	-384.91	147.77	877.18	836.35	40.83	21.485	
5,800.00	5,676.46	5,677.62	5,675.89	22.04	19.84	158.45	-386.60	147.91	898.48	856.92	41.55	21.623	
5,900.00	5,773.80	5,774.45	5,772.70	22.43	20.18	158.86	-388.32	148.00	919.86	877.59	42.28	21.758	
6,000.00	5,871.14	5,869.47	5,867.70	22.83	20.52	159.24	-390.06	147.95	941.44	898.45	42.99	21.900	
6,100.00	5,968.48	5,966.29	5,964.51	23.22	20.86	159.60	-392.07	147.66	963.30	919.59	43.71	22.037	
6,200.00	6,065.82	6,065.99	6,064.18	23.61	21.21	159.95	-394.19	147.50	985.07	940.61	44.46	22.157	
6,300.00	6,163.16	6,165.26	6,163.44	24.01	21.56	160.32	-395.68	147.56	1,006.64	961.43	45.20	22.269	
6,400.00	6,260.50	6,261.97	6,260.14	24.40	21.91	160.67	-396.89	147.68	1,028.18	982.25	45.93	22.386	
6,500.00	6,357.83	6,360.40	6,358.56	24.79	22.26	161.02	-398.10	147.76	1,049.81	1,003.14	46.67	22.496	
6,600.00	6,455.17	6,467.60	6,465.75	25.19	22.64	161.43	-398.62	148.36	1,071.02	1,023.56	47.46	22.565	
6,700.00	6,552.51	6,570.04	6,568.18	25.58	22.99	161.89	-397.54	149.73	1,091.53	1,043.31	48.22	22.638	
6,800.00	6,649.85	6,669.12	6,667.24	25.98	23.33	162.35	-395.99	151.36	1,111.81	1,062.87	48.95	22.715	
6,900.00	6,747.19	6,760.00	6,758.09	26.37	23.64	162.76	-394.25	152.62	1,132.43	1,082.81	49.62	22.823	
7,000.00	6,844.53	6,855.00	6,853.07	26.76	23.97	163.17	-392.76	153.65	1,153.38	1,103.06	50.32	22.921	
7,100.00	6,941.87	6,933.12	6,931.19	27.16	24.23	163.46	-392.03	153.78	1,175.29	1,124.39	50.89	23.093	
7,115.01	6,956.48	6,949.00	6,947.07	27.22	24.28	163.52	-391.90	153.62	1,178.74	1,127.73	51.01	23.108	
7,150.00	6,990.45	6,974.79	6,972.85	27.35	24.37	149.66	-391.74	153.29	1,186.85	1,135.65	51.20	23.182	
7,200.00	7,038.53	7,018.78	7,016.84	27.55	24.52	134.59	-391.58	152.61	1,198.48	1,146.96	51.52	23.264	
7,250.00	7,085.72	7,065.86	7,063.91	27.75	24.67	124.31	-391.56	151.76	1,210.12	1,158.26	51.86	23.333	
7,300.00	7,131.67	7,117.00	7,115.05	27.94	24.84	117.39	-391.41	151.00	1,221.53	1,169.29	52.24	23.383	
7,350.00	7,176.02	7,162.98	7,161.03	28.13	25.00	112.52	-391.11	150.50	1,232.78	1,180.20	52.58	23.447	
7,400.00	7,218.44	7,204.54	7,202.58	28.32	25.14	108.97	-390.81	150.04	1,244.15	1,191.27	52.88	23.526	
7,450.00	7,258.60	7,242.95	7,240.98	28.50	25.26	106.29	-390.51	149.60	1,255.79	1,202.62	53.17	23.619	
7,500.00	7,296.21	7,276.69	7,274.72	28.67	25.38	104.14	-390.24	149.14	1,267.88	1,214.46	53.42	23.736	
7,550.00	7,330.97	7,307.81	7,305.84	28.84	25.48	102.35	-389.99	148.63	1,280.56	1,226.92	53.65	23.870	
7,600.00	7,362.62	7,337.10	7,335.12	28.99	25.58	100.83	-389.77	148.08	1,293.94	1,240.08	53.86	24.023	
7,650.00	7,390.91	7,365.09	7,363.10	29.15	25.67	99.48	-389.54	147.55	1,308.06	1,253.99	54.07	24.191	
7,700.00	7,415.64	7,389.47	7,387.48	29.30	25.75	98.16	-389.34	147.09	1,322.99	1,268.73	54.25	24.385	
7,750.00	7,436.62	7,410.05	7,408.06	29.44	25.82	96.78	-389.16	146.70	1,338.79	1,284.39	54.41	24.607	
7,800.00	7,453.68	7,426.46	7,424.46	29.57	25.88	95.29	-389.01	146.39	1,355.50	1,300.97	54.53	24.860	
7,825.96	7,460.95	7,433.15	7,431.15	29.64	25.90	94.45	-388.95	146.26	1,364.52	1,309.95	54.57	25.004	
7,900.00	7,477.79	7,448.50	7,446.49	29.84	25.95	93.62	-388.81	145.97	1,392.40	1,337.73	54.68	25.466	
8,000.00	7,493.08	7,462.08	7,460.08	30.11	26.00	91.83	-388.67	145.70	1,435.50	1,380.73	54.76	26.213	
8,100.00	7,499.70	7,467.41	7,465.40	30.38	26.02	89.28	-388.62	145.59	1,484.25	1,429.48	54.78	27.096	
8,125.95	7,499.99	7,467.44	7,465.43	30.45	26.02	88.49	-388.62	145.59	1,497.74	1,442.97	54.77	27.347	
8,200.00	7,499.99	7,466.74	7,464.73	30.65	26.01	88.46	-388.63	145.61	1,537.96	1,483.22	54.74	28.096	
8,300.00	7,499.99	7,465.80	7,463.79	30.94	26.01	88.42	-388.64	145.62	1,596.12	1,541.42	54.70	29.180	
8,400.00	7,499.99	7,464.86	7,462.85	31.24	26.01	88.37	-388.65	145.64	1,658.28	1,603.63	54.66	30.340	
8,500.00	7,499.99	7,463.92	7,461.91	31.56	26.00	88.33	-388.66	145.66	1,724.00	1,669.39	54.61	31.568	
8,600.00	7,500.00	7,462.98	7,460.98	31.88	26.00	88.29	-388.66	145.68	1,792.89	1,738.32	54.57	32.855	
8,700.00	7,500.00	7,462.05	7,460.04	32.22	26.00	88.25	-388.67	145.70	1,864.61	1,810.08	54.53	34.194	
8,800.00	7,500.00	7,461.12	7,459.12	32.58	25.99	88.21	-388.68	145.72	1,938.82	1,884.33	54.49	35.579	
8,900.00	7,500.00	7,460.20	7,458.19	32.94	25.99	88.16	-388.69	145.74	2,015.27	1,960.81	54.46	37.006	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	7,459.28	7,457.27	33.32	25.99	88.12	-388.70	145.76	2,093.70	2,039.28	54.43	38.468	
9,100.00	7,500.00	7,458.36	7,456.36	33.71	25.98	88.08	-388.71	145.77	2,173.91	2,119.51	54.40	39.962	
9,200.00	7,500.00	7,457.45	7,455.44	34.11	25.98	88.04	-388.72	145.79	2,255.69	2,201.32	54.37	41.484	
9,300.00	7,500.00	7,456.54	7,454.53	34.52	25.98	88.00	-388.73	145.81	2,338.89	2,284.54	54.35	43.031	
9,400.00	7,500.00	7,455.63	7,453.62	34.94	25.98	87.96	-388.74	145.83	2,423.36	2,369.03	54.34	44.600	
9,500.00	7,500.00	7,454.72	7,452.72	35.37	25.97	87.92	-388.75	145.85	2,508.98	2,454.65	54.32	46.188	
9,600.00	7,500.00	7,453.82	7,451.82	35.81	25.97	87.88	-388.75	145.86	2,595.62	2,541.31	54.31	47.793	
9,700.00	7,500.00	7,452.92	7,450.92	36.26	25.97	87.84	-388.76	145.88	2,683.19	2,628.89	54.30	49.414	
9,800.00	7,500.00	7,452.03	7,450.02	36.73	25.96	87.80	-388.77	145.90	2,771.60	2,717.30	54.29	51.047	
9,900.00	7,500.00	7,451.13	7,449.13	37.20	25.96	87.76	-388.78	145.92	2,860.77	2,806.48	54.29	52.693	
10,000.00	7,500.00	7,450.25	7,448.24	37.68	25.96	87.72	-388.79	145.93	2,950.64	2,896.35	54.29	54.348	
10,100.00	7,500.00	7,449.36	7,447.36	38.17	25.95	87.68	-388.80	145.95	3,041.14	2,986.85	54.29	56.013	
10,200.00	7,500.00	7,448.48	7,446.47	38.66	25.95	87.64	-388.81	145.97	3,132.22	3,077.92	54.30	57.686	
10,300.00	7,500.00	7,447.60	7,445.59	39.17	25.95	87.60	-388.81	145.99	3,223.82	3,169.52	54.30	59.366	
10,400.00	7,500.00	7,446.72	7,444.72	39.68	25.95	87.56	-388.82	146.00	3,315.92	3,261.60	54.31	61.052	
10,500.00	7,500.00	7,445.85	7,443.84	40.20	25.94	87.52	-388.83	146.02	3,408.45	3,354.13	54.32	62.744	
10,600.00	7,500.00	7,444.98	7,442.97	40.73	25.94	87.48	-388.84	146.04	3,501.40	3,447.06	54.34	64.440	
10,700.00	7,500.00	7,444.11	7,442.10	41.26	25.94	87.44	-388.85	146.05	3,594.73	3,540.37	54.35	66.139	
10,800.00	7,500.00	7,443.24	7,441.24	41.80	25.93	87.40	-388.86	146.07	3,688.40	3,634.03	54.37	67.842	
10,900.00	7,500.00	7,442.38	7,440.38	42.35	25.93	87.36	-388.86	146.09	3,782.40	3,728.01	54.39	69.548	
11,000.00	7,500.00	7,441.52	7,439.52	42.91	25.93	87.33	-388.87	146.10	3,876.70	3,822.29	54.41	71.256	
11,100.00	7,500.00	12,455.00	10,757.23	43.47	47.99	157.99	-2,385.07	111.54	3,932.67	3,863.35	69.32	56.735	
11,200.00	7,500.00	12,455.00	10,757.23	44.03	47.99	157.99	-2,385.07	111.54	3,978.56	3,908.66	69.90	56.919	
11,300.00	7,500.00	12,455.00	10,757.23	44.61	47.99	157.99	-2,385.07	111.54	4,026.41	3,955.95	70.46	57.144	
11,400.00	7,500.00	12,455.00	10,757.23	45.18	47.99	157.99	-2,385.07	111.54	4,076.15	4,005.15	71.00	57.409	
11,500.00	7,500.00	12,455.00	10,757.23	45.77	47.99	157.99	-2,385.07	111.54	4,127.72	4,056.19	71.52	57.711	
11,581.32	7,500.00	12,455.00	10,757.23	46.24	47.99	157.99	-2,385.07	111.54	4,170.95	4,099.01	71.93	57.984	
11,600.00	7,500.00	12,455.00	10,757.23	46.35	47.99	158.78	-2,385.07	111.54	4,181.10	4,109.08	72.03	58.050	
11,650.00	7,500.00	12,455.00	10,757.23	46.65	47.99	160.99	-2,385.07	111.54	4,209.19	4,136.91	72.28	58.233	
11,700.00	7,500.00	12,455.00	10,757.23	46.96	47.99	163.38	-2,385.07	111.54	4,238.48	4,165.93	72.55	58.425	
11,750.00	7,500.00	12,455.00	10,757.23	47.27	47.99	165.95	-2,385.07	111.54	4,268.85	4,196.03	72.82	58.625	
11,800.00	7,500.00	12,455.00	10,757.23	47.59	47.99	168.67	-2,385.07	111.54	4,300.16	4,227.06	73.09	58.830	
11,850.00	7,500.00	12,455.00	10,757.23	47.91	47.99	171.54	-2,385.07	111.54	4,332.27	4,258.89	73.38	59.041	
11,900.00	7,500.00	12,455.00	10,757.23	48.23	47.99	174.53	-2,385.07	111.54	4,365.06	4,291.39	73.67	59.255	
11,950.00	7,500.00	12,455.00	10,757.23	48.56	47.99	177.63	-2,385.07	111.54	4,398.39	4,324.43	73.96	59.470	
12,000.00	7,500.00	12,455.00	10,757.23	48.88	47.99	-179.19	-2,385.07	111.54	4,432.12	4,357.86	74.26	59.685	
12,050.00	7,500.00	12,455.00	10,757.23	49.20	47.99	-175.97	-2,385.07	111.54	4,466.13	4,391.57	74.56	59.899	
12,100.00	7,500.00	12,455.00	10,757.23	49.52	47.99	-172.74	-2,385.07	111.54	4,500.28	4,425.41	74.87	60.109	
12,150.00	7,500.00	12,455.00	10,757.23	49.83	47.99	-169.52	-2,385.07	111.54	4,534.45	4,459.27	75.18	60.315	
12,200.00	7,500.00	12,455.00	10,757.23	50.14	47.99	-166.36	-2,385.07	111.54	4,568.50	4,493.01	75.49	60.515	
12,250.00	7,500.00	12,455.00	10,757.23	50.44	47.99	-163.28	-2,385.07	111.54	4,602.33	4,526.52	75.81	60.707	
12,300.00	7,500.00	12,455.00	10,757.23	50.74	47.99	-160.31	-2,385.07	111.54	4,635.81	4,559.68	76.13	60.890	
12,350.00	7,500.00	12,455.00	10,757.23	51.02	47.99	-157.46	-2,385.07	111.54	4,668.83	4,592.37	76.46	61.062	
12,400.00	7,500.00	12,455.00	10,757.23	51.30	47.99	-154.75	-2,385.07	111.54	4,701.28	4,624.49	76.79	61.222	
12,450.00	7,500.00	12,455.00	10,757.23	51.56	47.99	-152.19	-2,385.07	111.54	4,733.05	4,655.92	77.12	61.369	
12,500.00	7,500.00	12,455.00	10,757.23	51.81	47.99	-149.79	-2,385.07	111.54	4,764.04	4,686.57	77.46	61.502	
12,550.00	7,500.00	12,455.00	10,757.23	52.05	47.99	-147.55	-2,385.07	111.54	4,794.14	4,716.34	77.80	61.619	
12,600.00	7,500.00	12,455.00	10,757.23	52.27	47.99	-145.47	-2,385.07	111.54	4,823.28	4,745.13	78.15	61.719	
12,650.00	7,500.00	12,455.00	10,757.23	52.48	47.99	-143.55	-2,385.07	111.54	4,851.36	4,772.86	78.50	61.802	
12,700.00	7,500.00	12,455.00	10,757.23	52.67	47.99	-141.78	-2,385.07	111.54	4,878.29	4,799.44	78.85	61.866	
12,750.00	7,500.00	12,455.00	10,757.23	52.84	47.99	-140.17	-2,385.07	111.54	4,904.00	4,824.78	79.21	61.910	
12,800.00	7,500.00	12,455.00	10,757.23	53.00	47.99	-138.69	-2,385.07	111.54	4,928.40	4,848.83	79.57	61.934	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,850.00	7,500.00	12,455.00	10,757.23	53.14	47.99	-137.35	-2,385.07	111.54	4,951.44	4,871.50	79.94	61.937	
12,900.00	7,500.00	12,455.00	10,757.23	53.27	47.99	-136.14	-2,385.07	111.54	4,973.05	4,892.74	80.31	61.919	
12,950.00	7,500.00	12,455.00	10,757.23	53.37	47.99	-135.04	-2,385.07	111.54	4,993.16	4,912.47	80.69	61.880	
13,000.00	7,500.00	12,455.00	10,757.23	53.46	47.99	-134.07	-2,385.07	111.54	5,011.73	4,930.65	81.07	61.818	
13,050.00	7,500.00	12,455.00	10,757.23	53.53	47.99	-133.20	-2,385.07	111.54	5,028.69	4,947.23	81.46	61.734	
13,100.00	7,500.00	12,455.00	10,757.23	53.58	47.99	-132.44	-2,385.07	111.54	5,044.01	4,962.16	81.85	61.628	
13,150.00	7,500.00	12,455.00	10,757.23	53.62	47.99	-131.78	-2,385.07	111.54	5,057.63	4,975.40	82.24	61.499	
13,200.00	7,500.00	12,455.00	10,757.23	53.63	47.99	-131.22	-2,385.07	111.54	5,069.54	4,986.90	82.63	61.349	
13,250.00	7,500.00	12,455.00	10,757.23	53.63	47.99	-130.75	-2,385.07	111.54	5,079.69	4,996.66	83.03	61.176	
13,300.00	7,500.00	12,455.00	10,757.23	53.62	47.99	-130.36	-2,385.07	111.54	5,088.06	5,004.62	83.44	60.982	
13,350.00	7,500.00	12,455.00	10,757.23	53.58	47.99	-130.07	-2,385.07	111.54	5,094.62	5,010.78	83.84	60.766	
13,400.00	7,500.00	12,455.00	10,757.23	53.54	47.99	-129.85	-2,385.07	111.54	5,099.36	5,015.12	84.25	60.530	
13,450.00	7,500.00	12,455.00	10,757.23	53.48	47.99	-129.72	-2,385.07	111.54	5,102.27	5,017.62	84.65	60.273	
13,500.00	7,500.00	12,455.00	10,757.23	53.40	47.99	-129.68	-2,385.07	111.54	5,103.34	5,018.28	85.06	59.997	
13,550.00	7,500.00	12,455.00	10,757.23	53.32	47.99	-129.71	-2,385.07	111.54	5,102.57	5,017.10	85.47	59.701	
13,600.00	7,500.00	12,455.00	10,757.23	53.22	47.99	-129.83	-2,385.07	111.54	5,099.95	5,014.07	85.88	59.387	
13,650.00	7,500.00	12,455.00	10,757.23	53.12	47.99	-130.03	-2,385.07	111.54	5,095.50	5,009.21	86.28	59.054	
13,700.00	7,500.00	12,455.00	10,757.23	53.00	47.99	-130.31	-2,385.07	111.54	5,089.22	5,002.53	86.69	58.705	
13,750.00	7,500.00	12,455.00	10,757.23	52.88	47.99	-130.68	-2,385.07	111.54	5,081.14	4,994.04	87.10	58.339	
13,800.00	7,500.00	12,455.00	10,757.23	52.75	47.99	-131.14	-2,385.07	111.54	5,071.27	4,983.77	87.50	57.958	
13,850.00	7,500.00	12,455.00	10,757.23	52.61	47.99	-131.69	-2,385.07	111.54	5,059.64	4,971.74	87.90	57.562	
13,900.00	7,500.00	12,455.00	10,757.23	52.48	47.99	-132.33	-2,385.07	111.54	5,046.29	4,957.99	88.30	57.151	
13,950.00	7,500.00	12,455.00	10,757.23	52.33	47.99	-133.08	-2,385.07	111.54	5,031.24	4,942.55	88.69	56.727	
14,000.00	7,500.00	12,455.00	10,757.23	52.19	47.99	-133.92	-2,385.07	111.54	5,014.53	4,925.45	89.08	56.291	
14,050.00	7,500.00	12,455.00	10,757.23	52.05	47.99	-134.88	-2,385.07	111.54	4,996.22	4,906.75	89.47	55.843	
14,100.00	7,500.00	12,455.00	10,757.23	51.90	47.99	-135.95	-2,385.07	111.54	4,976.35	4,886.50	89.85	55.383	
14,105.32	7,500.00	12,455.00	10,757.23	51.89	47.99	-136.07	-2,385.07	111.54	4,974.15	4,884.26	89.89	55.334	
14,200.00	7,500.00	12,455.00	10,757.23	51.63	47.99	-136.71	-2,385.07	111.54	4,934.54	4,843.93	90.61	54.458	
14,300.00	7,500.00	12,455.00	10,757.23	51.35	47.99	-137.39	-2,385.07	111.54	4,892.22	4,800.85	91.37	53.542	
14,333.98	7,500.00	12,455.00	10,757.23	51.26	47.99	-137.63	-2,385.07	111.54	4,877.74	4,786.11	91.63	53.233	
14,400.00	7,500.00	12,455.00	10,757.23	51.09	47.99	-137.63	-2,385.07	111.54	4,849.90	4,757.77	92.13	52.642	
14,500.00	7,500.00	12,455.00	10,757.23	50.84	47.99	-137.63	-2,385.07	111.54	4,809.16	4,716.27	92.89	51.771	
14,600.00	7,500.00	12,455.00	10,757.23	50.59	47.99	-137.63	-2,385.07	111.54	4,770.17	4,676.51	93.66	50.930	
14,700.00	7,500.00	7,412.72	7,410.72	50.35	25.83	-88.27	-389.14	146.65	4,729.90	4,671.77	58.13	81.368	
14,800.00	7,500.00	7,413.59	7,411.59	50.12	25.83	-88.29	-389.13	146.63	4,651.81	4,593.57	58.24	79.869	
14,900.00	7,500.00	7,414.46	7,412.47	49.90	25.84	-88.31	-389.12	146.62	4,574.57	4,516.20	58.37	78.373	
15,000.00	7,500.00	7,415.34	7,413.34	49.69	25.84	-88.32	-389.11	146.60	4,498.22	4,439.71	58.51	76.879	
15,100.00	7,500.00	7,416.22	7,414.22	49.48	25.84	-88.34	-389.10	146.58	4,422.82	4,364.16	58.67	75.388	
15,200.00	7,500.00	7,417.10	7,415.10	49.28	25.85	-88.36	-389.10	146.57	4,348.42	4,289.58	58.84	73.903	
15,300.00	7,500.00	7,417.99	7,415.99	49.09	25.85	-88.38	-389.09	146.55	4,275.05	4,216.02	59.03	72.423	
15,400.00	7,500.00	7,418.87	7,416.88	48.91	25.85	-88.39	-389.08	146.53	4,202.79	4,143.55	59.24	70.949	
15,500.00	7,500.00	7,419.76	7,417.77	48.74	25.86	-88.41	-389.07	146.52	4,131.68	4,072.21	59.46	69.484	
15,600.00	7,500.00	7,420.66	7,418.66	48.57	25.86	-88.43	-389.06	146.50	4,061.78	4,002.08	59.71	68.028	
15,700.00	7,500.00	7,422.00	7,420.00	48.42	25.86	-88.45	-389.05	146.47	3,993.17	3,933.20	59.98	66.579	
15,800.00	7,500.00	7,422.00	7,420.00	48.27	25.86	-88.45	-389.05	146.47	3,925.91	3,865.66	60.25	65.157	
15,900.00	7,500.00	7,422.00	7,420.00	48.13	25.86	-88.45	-389.05	146.47	3,860.06	3,799.51	60.55	63.748	
16,000.00	7,500.00	7,422.00	7,420.00	48.01	25.86	-88.45	-389.05	146.47	3,795.71	3,734.84	60.87	62.356	
16,100.00	7,500.00	7,422.00	7,420.00	47.89	25.86	-88.45	-389.05	146.47	3,732.93	3,671.72	61.21	60.983	
16,200.00	7,500.00	7,422.00	7,420.00	47.78	25.86	-88.45	-389.05	146.47	3,671.80	3,610.22	61.58	59.630	
16,300.00	7,500.00	7,426.43	7,424.43	47.68	25.88	-88.54	-389.01	146.39	3,612.40	3,550.39	62.01	58.258	
16,400.00	7,500.00	7,427.24	7,425.24	47.59	25.88	-88.56	-389.00	146.38	3,554.82	3,492.40	62.42	56.946	
16,500.00	7,500.00	7,428.06	7,426.06	47.51	25.88	-88.57	-389.00	146.36	3,499.15	3,436.29	62.86	55.662	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	7,500.00	7,428.88	7,426.88	47.44	25.89	-88.59	-388.99	146.35	3,445.49	3,382.16	63.33	54.409	
16,700.00	7,500.00	7,429.70	7,427.70	47.39	25.89	-88.61	-388.98	146.33	3,393.92	3,330.12	63.81	53.190	
16,800.00	7,500.00	7,430.53	7,428.53	47.34	25.89	-88.62	-388.97	146.31	3,344.55	3,280.25	64.31	52.007	
16,900.00	7,500.00	7,431.36	7,429.36	47.31	25.89	-88.64	-388.97	146.30	3,297.48	3,232.65	64.83	50.863	
17,000.00	7,500.00	7,432.19	7,430.19	47.29	25.90	-88.65	-388.96	146.28	3,252.80	3,187.43	65.37	49.760	
17,100.00	7,500.00	7,433.02	7,431.02	47.28	25.90	-88.67	-388.95	146.27	3,210.61	3,144.68	65.92	48.702	
17,200.00	7,500.00	7,433.86	7,431.86	47.28	25.90	-88.69	-388.94	146.25	3,171.01	3,104.52	66.49	47.692	
17,300.00	7,500.00	7,434.70	7,432.69	47.30	25.91	-88.70	-388.94	146.23	3,134.11	3,067.04	67.07	46.731	
17,400.00	7,500.00	7,435.54	7,433.54	47.33	25.91	-88.72	-388.93	146.22	3,099.99	3,032.34	67.65	45.822	
17,500.00	7,500.00	7,436.38	7,434.38	47.37	25.91	-88.74	-388.92	146.20	3,068.75	3,000.51	68.24	44.967	
17,600.00	7,500.00	7,437.23	7,435.23	47.43	25.91	-88.75	-388.91	146.19	3,040.49	2,971.65	68.84	44.170	
17,700.00	7,500.00	7,438.08	7,436.08	47.50	25.92	-88.77	-388.90	146.17	3,015.27	2,945.85	69.43	43.431	
17,800.00	7,500.00	7,438.94	7,436.93	47.59	25.92	-88.79	-388.90	146.15	2,993.19	2,923.18	70.01	42.752	
17,900.00	7,500.00	7,439.79	7,437.79	47.69	25.92	-88.80	-388.89	146.14	2,974.30	2,903.71	70.59	42.135	
18,000.00	7,500.00	7,440.65	7,438.65	47.81	25.93	-88.82	-388.88	146.12	2,958.68	2,887.53	71.15	41.582	
18,100.00	7,500.00	7,441.51	7,439.51	47.94	25.93	-88.84	-388.87	146.10	2,946.37	2,874.67	71.70	41.092	
18,200.00	7,500.00	7,442.38	7,440.38	48.08	25.93	-88.85	-388.86	146.09	2,937.41	2,865.18	72.23	40.668	
18,300.00	7,500.00	7,443.25	7,441.25	48.25	25.93	-88.87	-388.86	146.07	2,931.84	2,859.10	72.74	40.308	
18,400.00	7,500.00	7,444.12	7,442.12	48.42	25.94	-88.89	-388.85	146.05	2,929.67	2,856.46	73.21	40.015	
18,413.53	7,500.00	7,444.24	7,442.24	48.45	25.94	-88.89	-388.85	146.05	2,929.64	2,856.36	73.28	39.980	
18,461.64	7,500.00	7,444.66	7,442.66	48.54	25.94	-88.90	-388.84	146.04	2,930.04	2,856.54	73.50	39.867	
18,462.14	7,500.00	7,444.66	7,442.66	49.47	25.94	-88.90	-388.84	146.04	2,930.04	2,856.57	73.47	39.879	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	162.86	-332.67	102.57	348.12				
100.00	100.00	95.97	95.96	0.28	0.16	163.05	-333.40	101.63	348.55	348.12	0.43	812.516	
200.00	200.00	193.86	193.79	0.63	0.42	163.56	-335.48	98.97	349.82	348.77	1.05	334.372	
300.00	300.00	294.04	293.86	0.99	0.78	164.27	-338.07	95.21	351.26	349.49	1.77	198.610	
400.00	400.00	393.40	393.09	1.35	1.14	165.06	-340.85	90.94	352.82	350.33	2.49	141.712	
500.00	500.00	492.71	492.28	1.71	1.50	165.84	-343.80	86.72	354.63	351.42	3.21	110.458	
600.00	599.98	591.75	591.19	2.06	1.87	62.48	-346.82	82.77	355.84	351.92	3.92	90.790	
700.00	699.84	691.38	690.68	2.40	2.23	63.98	-350.05	78.70	355.77	351.14	4.62	76.932	
750.00	749.68	741.46	740.72	2.58	2.41	64.82	-351.48	77.35	355.21	350.23	4.98	71.354	
800.00	799.49	791.65	790.90	2.75	2.59	65.60	-352.71	76.75	354.48	349.15	5.33	66.523	
900.00	899.11	892.37	891.60	3.10	2.94	66.87	-354.67	77.26	352.96	346.93	6.03	58.563	
1,000.00	998.73	992.57	991.78	3.46	3.28	68.08	-356.32	78.14	351.37	344.64	6.72	52.252	
1,001.27	1,000.00	993.85	993.05	3.46	3.29	68.09	-356.34	78.15	351.35	344.62	6.73	52.180	
1,100.00	1,098.18	1,093.60	1,092.79	3.81	3.63	67.62	-357.74	78.91	348.90	341.47	7.43	46.959	
1,200.00	1,197.22	1,193.25	1,192.44	4.18	3.98	68.55	-358.81	79.78	344.83	336.69	8.13	42.394	
1,300.00	1,295.71	1,290.37	1,289.54	4.54	4.32	70.41	-360.09	80.70	340.05	331.21	8.83	38.491	
1,400.00	1,393.53	1,389.24	1,388.40	4.91	4.66	73.14	-361.45	81.79	334.83	325.29	9.55	35.071	
1,414.82	1,407.97	1,403.82	1,402.97	4.97	4.71	73.61	-361.63	81.95	334.03	324.38	9.65	34.603	
1,500.00	1,490.88	1,487.36	1,486.50	5.28	5.01	76.67	-362.60	82.70	329.86	319.60	10.26	32.141	
1,600.00	1,588.22	1,585.07	1,584.20	5.66	5.35	80.37	-363.63	83.39	326.17	315.18	10.98	29.696	
1,700.00	1,685.56	1,682.62	1,681.75	6.04	5.70	84.17	-364.62	83.82	323.93	312.22	11.71	27.666	
1,800.00	1,782.90	1,780.61	1,779.74	6.42	6.05	88.08	-365.46	83.97	323.15	310.71	12.44	25.978	
1,808.20	1,790.88	1,788.69	1,787.81	6.45	6.08	88.40	-365.52	83.98	323.15	310.65	12.50	25.853	CC
1,900.00	1,880.24	1,879.17	1,878.29	6.80	6.40	92.02	-366.02	84.13	323.67	310.50	13.17	24.571	ES
2,000.00	1,977.58	1,979.26	1,978.38	7.18	6.75	95.92	-366.33	84.90	325.28	311.37	13.91	23.388	
2,100.00	2,074.91	2,076.70	2,075.80	7.57	7.09	99.46	-366.46	87.09	327.54	312.91	14.63	22.384	
2,200.00	2,172.25	2,173.62	2,172.67	7.95	7.42	102.75	-367.75	89.76	331.82	316.46	15.36	21.604	
2,300.00	2,269.59	2,273.50	2,272.45	8.34	7.77	105.84	-369.41	93.77	336.78	320.68	16.10	20.920	
2,400.00	2,366.93	2,371.99	2,370.81	8.73	8.12	108.69	-371.17	98.43	342.36	325.53	16.83	20.338	
2,500.00	2,464.27	2,468.36	2,467.14	9.11	8.46	111.73	-371.74	101.16	349.11	331.55	17.56	19.883	
2,600.00	2,561.61	2,567.43	2,566.20	9.50	8.80	114.95	-371.57	102.72	357.19	338.90	18.29	19.528	
2,700.00	2,658.95	2,665.17	2,663.91	9.89	9.14	117.94	-371.34	104.86	365.86	346.84	19.02	19.236	
2,800.00	2,756.29	2,762.69	2,761.42	10.28	9.48	120.76	-371.32	106.89	375.72	355.97	19.75	19.026	
2,900.00	2,853.63	2,861.07	2,859.77	10.67	9.82	123.46	-371.23	109.00	386.39	365.91	20.48	18.867	
3,000.00	2,950.97	2,959.40	2,958.08	11.06	10.17	126.01	-371.09	111.27	397.71	376.50	21.21	18.751	
3,100.00	3,048.31	3,057.08	3,055.73	11.45	10.51	128.42	-370.85	113.52	409.74	387.80	21.94	18.677	
3,200.00	3,145.64	3,154.28	3,152.90	11.84	10.85	130.67	-370.63	115.68	422.53	399.87	22.66	18.644	
3,300.00	3,242.98	3,253.84	3,252.44	12.23	11.20	132.85	-370.34	117.95	435.88	412.48	23.40	18.627	
3,400.00	3,340.32	3,351.53	3,350.10	12.62	11.55	134.84	-370.15	120.50	449.56	425.43	24.13	18.632	
3,500.00	3,437.66	3,448.00	3,446.54	13.01	11.89	136.68	-370.00	122.88	463.88	439.03	24.85	18.667	
3,600.00	3,535.00	3,544.20	3,542.71	13.40	12.23	138.43	-369.84	124.91	479.00	453.43	25.57	18.733	
3,700.00	3,632.34	3,642.78	3,641.27	13.79	12.58	140.13	-369.66	126.88	494.65	468.34	26.30	18.806	
3,800.00	3,729.68	3,739.42	3,737.89	14.19	12.92	141.68	-369.50	128.79	510.71	483.69	27.02	18.899	
3,900.00	3,827.02	3,835.29	3,833.75	14.58	13.26	143.12	-369.53	130.41	527.46	499.72	27.74	19.014	
4,000.00	3,924.36	3,933.94	3,932.38	14.97	13.61	144.49	-369.77	132.13	544.54	516.06	28.48	19.122	
4,100.00	4,021.70	4,029.62	4,028.06	15.36	13.95	145.75	-369.98	133.63	562.06	532.87	29.19	19.253	
4,200.00	4,119.04	4,127.41	4,125.84	15.75	14.30	146.95	-370.28	135.06	579.97	550.05	29.92	19.381	
4,300.00	4,216.37	4,224.39	4,222.80	16.15	14.65	148.06	-370.74	136.47	598.15	567.50	30.65	19.515	
4,400.00	4,313.71	4,320.54	4,318.94	16.54	14.99	149.07	-371.49	137.72	616.74	585.37	31.37	19.659	
4,500.00	4,411.05	4,417.51	4,415.90	16.93	15.34	150.03	-372.20	138.80	635.70	603.60	32.10	19.804	
4,600.00	4,508.39	4,515.25	4,513.63	17.32	15.69	150.95	-372.96	139.87	654.83	622.00	32.83	19.945	
4,700.00	4,605.73	4,612.37	4,610.74	17.72	16.04	151.80	-373.74	140.91	674.16	640.60	33.56	20.087	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,703.07	4,708.87	4,707.24	18.11	16.38	152.61	-374.49	141.85	693.71	659.43	34.29	20.234	
4,900.00	4,800.41	4,804.53	4,802.89	18.50	16.72	153.36	-375.31	142.53	713.65	678.65	35.00	20.388	
5,000.00	4,897.75	4,901.09	4,899.44	18.90	17.07	154.07	-376.33	143.07	733.89	698.16	35.73	20.542	
5,100.00	4,995.09	4,998.48	4,996.83	19.29	17.42	154.74	-377.33	143.51	754.32	717.86	36.46	20.691	
5,200.00	5,092.43	5,097.72	5,096.06	19.68	17.77	155.39	-378.41	144.06	774.76	737.56	37.20	20.827	
5,300.00	5,189.77	5,196.41	5,194.74	20.07	18.12	156.00	-379.47	144.89	795.01	757.07	37.94	20.954	
5,400.00	5,287.10	5,294.66	5,292.99	20.47	18.47	156.57	-380.63	145.71	815.35	776.67	38.68	21.080	
5,500.00	5,384.44	5,392.38	5,390.69	20.86	18.82	157.09	-382.00	146.71	835.60	796.19	39.41	21.201	
5,600.00	5,481.78	5,486.48	5,484.77	21.25	19.16	157.57	-383.45	147.46	856.13	816.01	40.12	21.339	
5,700.00	5,579.12	5,580.96	5,579.24	21.65	19.50	158.02	-384.91	147.77	877.18	836.35	40.83	21.485	
5,800.00	5,676.46	5,677.62	5,675.89	22.04	19.84	158.45	-386.60	147.91	898.48	856.92	41.55	21.623	
5,900.00	5,773.80	5,774.45	5,772.70	22.43	20.18	158.86	-388.32	148.00	919.86	877.59	42.28	21.758	
6,000.00	5,871.14	5,869.47	5,867.70	22.83	20.52	159.24	-390.06	147.95	941.44	898.45	42.99	21.900	
6,100.00	5,968.48	5,966.29	5,964.51	23.22	20.86	159.60	-392.07	147.66	963.30	919.59	43.71	22.037	
6,200.00	6,065.82	6,065.99	6,064.18	23.61	21.21	159.95	-394.19	147.50	985.07	940.61	44.46	22.157	
6,300.00	6,163.16	6,165.26	6,163.44	24.01	21.56	160.32	-395.68	147.56	1,006.64	961.43	45.20	22.269	
6,400.00	6,260.50	6,261.97	6,260.14	24.40	21.91	160.67	-396.89	147.68	1,028.18	982.25	45.93	22.386	
6,500.00	6,357.83	6,360.40	6,358.56	24.79	22.26	161.02	-398.10	147.76	1,049.81	1,003.14	46.67	22.496	
6,600.00	6,455.17	6,467.60	6,465.75	25.19	22.64	161.43	-398.62	148.36	1,071.02	1,023.56	47.46	22.565	
6,700.00	6,552.51	6,570.04	6,568.18	25.58	22.99	161.89	-397.54	149.73	1,091.53	1,043.31	48.22	22.638	
6,800.00	6,649.85	6,669.12	6,667.24	25.98	23.33	162.35	-395.99	151.36	1,111.81	1,062.87	48.95	22.715	
6,900.00	6,747.19	6,760.00	6,758.09	26.37	23.64	162.76	-394.25	152.62	1,132.43	1,082.81	49.62	22.823	
7,000.00	6,844.53	6,855.00	6,853.07	26.76	23.97	163.17	-392.76	153.65	1,153.38	1,103.06	50.32	22.921	
7,100.00	6,941.87	6,933.12	6,931.19	27.16	24.23	163.46	-392.03	153.78	1,175.29	1,124.39	50.89	23.093	
7,115.01	6,956.48	6,949.00	6,947.07	27.22	24.28	163.52	-391.90	153.62	1,178.74	1,127.73	51.01	23.108	
7,150.00	6,990.45	6,974.79	6,972.85	27.35	24.37	149.66	-391.74	153.29	1,186.85	1,135.65	51.20	23.182	
7,200.00	7,038.53	7,018.78	7,016.84	27.55	24.52	134.59	-391.58	152.61	1,198.48	1,146.96	51.52	23.264	
7,250.00	7,085.72	7,065.86	7,063.91	27.75	24.67	124.31	-391.56	151.76	1,210.12	1,158.26	51.86	23.333	
7,300.00	7,131.67	7,117.00	7,115.05	27.94	24.84	117.39	-391.41	151.00	1,221.53	1,169.29	52.24	23.383	
7,350.00	7,176.02	7,162.98	7,161.03	28.13	25.00	112.52	-391.11	150.50	1,232.78	1,180.20	52.58	23.447	
7,400.00	7,218.44	7,204.54	7,202.58	28.32	25.14	108.97	-390.81	150.04	1,244.15	1,191.27	52.88	23.526	
7,450.00	7,258.60	7,242.95	7,240.98	28.50	25.26	106.29	-390.51	149.60	1,255.79	1,202.62	53.17	23.619	
7,500.00	7,296.21	7,276.69	7,274.72	28.67	25.38	104.14	-390.24	149.14	1,267.88	1,214.46	53.42	23.736	
7,550.00	7,330.97	7,307.81	7,305.84	28.84	25.48	102.35	-389.99	148.63	1,280.56	1,226.92	53.65	23.870	
7,600.00	7,362.62	7,337.10	7,335.12	28.99	25.58	100.83	-389.77	148.08	1,293.94	1,240.08	53.86	24.023	
7,650.00	7,390.91	7,365.09	7,363.10	29.15	25.67	99.48	-389.54	147.55	1,308.06	1,253.99	54.07	24.191	
7,700.00	7,415.64	7,389.47	7,387.48	29.30	25.75	98.16	-389.34	147.09	1,322.99	1,268.73	54.25	24.385	
7,750.00	7,436.62	7,410.05	7,408.06	29.44	25.82	96.78	-389.16	146.70	1,338.79	1,284.39	54.41	24.607	
7,800.00	7,453.68	7,426.46	7,424.46	29.57	25.88	95.29	-389.01	146.39	1,355.50	1,300.97	54.53	24.860	
7,825.96	7,460.95	7,433.15	7,431.15	29.64	25.90	94.45	-388.95	146.26	1,364.52	1,309.95	54.57	25.004	
7,900.00	7,477.79	7,448.50	7,446.49	29.84	25.95	93.62	-388.81	145.97	1,392.40	1,337.73	54.68	25.466	
8,000.00	7,493.08	7,462.08	7,460.08	30.11	26.00	91.83	-388.67	145.70	1,435.50	1,380.73	54.76	26.213	
8,100.00	7,499.70	7,467.41	7,465.40	30.38	26.02	89.28	-388.62	145.59	1,484.25	1,429.48	54.78	27.096	
8,125.95	7,499.99	7,467.44	7,465.43	30.45	26.02	88.49	-388.62	145.59	1,497.74	1,442.97	54.77	27.347	
8,200.00	7,499.99	7,466.74	7,464.73	30.65	26.01	88.46	-388.63	145.61	1,537.96	1,483.22	54.74	28.096	
8,300.00	7,499.99	7,465.80	7,463.79	30.94	26.01	88.42	-388.64	145.62	1,596.12	1,541.42	54.70	29.180	
8,400.00	7,499.99	7,464.86	7,462.85	31.24	26.01	88.37	-388.65	145.64	1,658.28	1,603.63	54.66	30.340	
8,500.00	7,499.99	7,463.92	7,461.91	31.56	26.00	88.33	-388.66	145.66	1,724.00	1,669.39	54.61	31.568	
8,600.00	7,500.00	7,462.98	7,460.98	31.88	26.00	88.29	-388.66	145.68	1,792.89	1,738.32	54.57	32.855	
8,700.00	7,500.00	7,462.05	7,460.04	32.22	26.00	88.25	-388.67	145.70	1,864.61	1,810.08	54.53	34.194	
8,800.00	7,500.00	7,461.12	7,459.12	32.58	25.99	88.21	-388.68	145.72	1,938.82	1,884.33	54.49	35.579	
8,900.00	7,500.00	7,460.20	7,458.19	32.94	25.99	88.16	-388.69	145.74	2,015.27	1,960.81	54.46	37.006	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	7,459.28	7,457.27	33.32	25.99	88.12	-388.70	145.76	2,093.70	2,039.28	54.43	38.468	
9,100.00	7,500.00	7,458.36	7,456.36	33.71	25.98	88.08	-388.71	145.77	2,173.91	2,119.51	54.40	39.962	
9,200.00	7,500.00	7,457.45	7,455.44	34.11	25.98	88.04	-388.72	145.79	2,255.69	2,201.32	54.37	41.484	
9,300.00	7,500.00	7,456.54	7,454.53	34.52	25.98	88.00	-388.73	145.81	2,338.89	2,284.54	54.35	43.031	
9,400.00	7,500.00	7,455.63	7,453.62	34.94	25.98	87.96	-388.74	145.83	2,423.36	2,369.03	54.34	44.600	
9,500.00	7,500.00	7,454.72	7,452.72	35.37	25.97	87.92	-388.75	145.85	2,508.98	2,454.65	54.32	46.188	
9,600.00	7,500.00	7,453.82	7,451.82	35.81	25.97	87.88	-388.75	145.86	2,595.62	2,541.31	54.31	47.793	
9,700.00	7,500.00	7,452.92	7,450.92	36.26	25.97	87.84	-388.76	145.88	2,683.19	2,628.89	54.30	49.414	
9,800.00	7,500.00	7,452.03	7,450.02	36.73	25.96	87.80	-388.77	145.90	2,771.60	2,717.30	54.29	51.047	
9,900.00	7,500.00	7,451.13	7,449.13	37.20	25.96	87.76	-388.78	145.92	2,860.77	2,806.48	54.29	52.693	
10,000.00	7,500.00	7,450.25	7,448.24	37.68	25.96	87.72	-388.79	145.93	2,950.64	2,896.35	54.29	54.348	
10,100.00	7,500.00	7,449.36	7,447.36	38.17	25.95	87.68	-388.80	145.95	3,041.14	2,986.85	54.29	56.013	
10,200.00	7,500.00	7,448.48	7,446.47	38.66	25.95	87.64	-388.81	145.97	3,132.22	3,077.92	54.30	57.686	
10,300.00	7,500.00	7,447.60	7,445.59	39.17	25.95	87.60	-388.81	145.99	3,223.82	3,169.52	54.30	59.366	
10,400.00	7,500.00	7,446.72	7,444.72	39.68	25.95	87.56	-388.82	146.00	3,315.92	3,261.60	54.31	61.052	
10,500.00	7,500.00	7,445.85	7,443.84	40.20	25.94	87.52	-388.83	146.02	3,408.45	3,354.13	54.32	62.744	
10,600.00	7,500.00	7,444.98	7,442.97	40.73	25.94	87.48	-388.84	146.04	3,501.40	3,447.06	54.34	64.440	
10,700.00	7,500.00	13,863.13	10,743.42	41.26	60.86	157.74	-3,775.73	106.86	3,505.72	3,432.78	72.94	48.066	
10,770.22	7,500.00	13,908.00	10,742.23	41.64	61.36	157.70	-3,820.53	104.65	3,505.44	3,431.68	73.76	47.525	
10,800.00	7,500.00	13,908.00	10,742.23	41.80	61.36	157.70	-3,820.53	104.65	3,505.57	3,431.61	73.96	47.399	
10,900.00	7,500.00	14,003.00	10,740.20	42.35	62.43	157.57	-3,915.25	97.68	3,506.56	3,431.15	75.41	46.500	
11,000.00	7,500.00	14,107.10	10,738.29	42.91	63.62	157.43	-4,019.01	89.44	3,508.09	3,431.13	76.96	45.586	
11,100.00	7,500.00	14,277.64	10,734.13	43.47	65.59	157.27	-4,189.27	81.38	3,507.73	3,428.70	79.03	44.385	
11,200.00	7,500.00	14,486.56	10,729.62	44.03	68.08	157.30	-4,398.05	86.46	3,504.88	3,423.60	81.27	43.124	
11,300.00	7,500.00	14,557.98	10,728.37	44.61	68.95	157.35	-4,469.34	90.61	3,501.15	3,418.67	82.48	42.449	
11,400.00	7,500.00	14,630.64	10,727.63	45.18	69.84	157.41	-4,541.86	94.88	3,498.14	3,414.44	83.69	41.797	
11,500.00	7,500.00	14,727.00	10,726.37	45.77	71.02	157.45	-4,638.15	98.25	3,495.75	3,410.64	85.11	41.073	
11,581.32	7,500.00	14,787.24	10,724.81	46.24	71.75	157.44	-4,698.37	98.67	3,493.79	3,407.64	86.15	40.553	
11,600.00	7,500.00	14,796.22	10,724.62	46.35	71.86	157.42	-4,707.34	98.65	3,493.54	3,407.19	86.36	40.454	
11,612.39	7,500.00	14,802.17	10,724.50	46.43	71.94	157.41	-4,713.29	98.63	3,493.50	3,407.00	86.50	40.389	
11,650.00	7,500.00	14,820.19	10,724.19	46.65	72.16	157.42	-4,731.32	98.53	3,493.93	3,407.00	86.93	40.192	
11,700.00	7,500.00	14,857.00	10,723.82	46.96	72.61	157.46	-4,768.12	98.11	3,495.91	3,408.27	87.64	39.888	
11,750.00	7,500.00	14,899.54	10,723.45	47.27	73.13	157.54	-4,810.65	97.45	3,499.22	3,410.78	88.44	39.564	
11,800.00	7,500.00	15,014.15	10,721.57	47.59	74.55	157.37	-4,925.20	97.98	3,502.86	3,413.00	89.86	38.980	
11,850.00	7,500.00	15,103.29	10,720.35	47.91	75.67	157.31	-5,014.21	102.22	3,507.11	3,416.04	91.07	38.510	
11,900.00	7,500.00	15,150.63	10,719.69	48.23	76.27	157.44	-5,061.47	104.95	3,512.42	3,420.43	91.99	38.182	
11,950.00	7,500.00	15,196.86	10,718.98	48.56	76.85	157.60	-5,107.62	107.45	3,518.96	3,426.02	92.94	37.862	
12,000.00	7,500.00	15,237.00	10,718.30	48.88	77.36	157.85	-5,147.71	109.48	3,526.75	3,432.87	93.88	37.566	
12,050.00	7,500.00	15,264.04	10,717.92	49.20	77.70	158.26	-5,174.71	110.79	3,535.93	3,441.18	94.75	37.317	
12,100.00	7,500.00	15,293.64	10,717.67	49.52	78.08	158.72	-5,204.28	112.21	3,546.60	3,450.92	95.68	37.069	
12,150.00	7,500.00	15,325.00	10,717.45	49.83	78.48	159.24	-5,235.60	113.71	3,558.57	3,461.93	96.64	36.823	
12,200.00	7,500.00	15,325.00	10,717.45	50.14	78.48	160.16	-5,235.60	113.71	3,572.11	3,474.73	97.37	36.685	
12,250.00	7,500.00	15,325.00	10,717.45	50.44	78.48	161.20	-5,235.60	113.71	3,587.27	3,489.15	98.12	36.561	
12,300.00	7,500.00	15,325.00	10,717.45	50.74	78.48	162.37	-5,235.60	113.71	3,603.98	3,505.10	98.88	36.449	
12,350.00	7,500.00	15,325.00	10,717.45	51.02	78.48	163.67	-5,235.60	113.71	3,622.16	3,522.52	99.65	36.350	
12,400.00	7,500.00	15,325.00	10,717.45	51.30	78.48	165.09	-5,235.60	113.71	3,641.73	3,541.30	100.42	36.263	
12,450.00	7,500.00	15,325.00	10,717.45	51.56	78.48	166.64	-5,235.60	113.71	3,662.58	3,561.37	101.21	36.189	
12,500.00	7,500.00	15,325.00	10,717.45	51.81	78.48	168.30	-5,235.60	113.71	3,684.62	3,582.62	101.99	36.126	
12,550.00	7,500.00	15,325.00	10,717.45	52.05	78.48	170.08	-5,235.60	113.71	3,707.75	3,604.96	102.78	36.074	
12,600.00	7,500.00	15,325.00	10,717.45	52.27	78.48	171.97	-5,235.60	113.71	3,731.86	3,628.29	103.57	36.032	
12,650.00	7,500.00	15,325.00	10,717.45	52.48	78.48	173.96	-5,235.60	113.71	3,756.85	3,652.49	104.35	36.001	
12,700.00	7,500.00	15,325.00	10,717.45	52.67	78.48	176.04	-5,235.60	113.71	3,782.60	3,677.47	105.13	35.979	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,750.00	7,500.00	15,325.00	10,717.45	52.84	78.48	178.20	-5,235.60	113.71	3,809.02	3,703.11	105.91	35.966	
12,800.00	7,500.00	15,325.00	10,717.45	53.00	78.48	-179.57	-5,235.60	113.71	3,835.98	3,729.31	106.67	35.961	
12,850.00	7,500.00	15,325.00	10,717.45	53.14	78.48	-177.29	-5,235.60	113.71	3,863.39	3,755.97	107.42	35.964	
12,900.00	7,500.00	15,325.00	10,717.45	53.27	78.48	-174.98	-5,235.60	113.71	3,891.13	3,782.96	108.16	35.975	
12,950.00	7,500.00	15,325.00	10,717.45	53.37	78.48	-172.65	-5,235.60	113.71	3,919.08	3,810.20	108.89	35.992	
13,000.00	7,500.00	15,325.00	10,717.45	53.46	78.48	-170.32	-5,235.60	113.71	3,947.16	3,837.56	109.60	36.014	
13,050.00	7,500.00	15,325.00	10,717.45	53.53	78.48	-168.00	-5,235.60	113.71	3,975.25	3,864.95	110.29	36.043	
13,100.00	7,500.00	15,325.00	10,717.45	53.58	78.48	-165.72	-5,235.60	113.71	4,003.24	3,892.27	110.97	36.075	
13,150.00	7,500.00	15,325.00	10,717.45	53.62	78.48	-163.48	-5,235.60	113.71	4,031.05	3,919.42	111.62	36.112	
13,200.00	7,500.00	15,325.00	10,717.45	53.63	78.48	-161.29	-5,235.60	113.71	4,058.57	3,946.31	112.26	36.153	
13,250.00	7,500.00	15,325.00	10,717.45	53.63	78.48	-159.18	-5,235.60	113.71	4,085.70	3,972.83	112.87	36.197	
13,300.00	7,500.00	15,325.00	10,717.45	53.62	78.48	-157.15	-5,235.60	113.71	4,112.36	3,998.90	113.47	36.243	
13,350.00	7,500.00	15,325.00	10,717.45	53.58	78.48	-155.20	-5,235.60	113.71	4,138.46	4,024.43	114.04	36.291	
13,400.00	7,500.00	15,325.00	10,717.45	53.54	78.48	-153.35	-5,235.60	113.71	4,163.92	4,049.34	114.58	36.341	
13,450.00	7,500.00	15,325.00	10,717.45	53.48	78.48	-151.60	-5,235.60	113.71	4,188.65	4,073.55	115.10	36.391	
13,500.00	7,500.00	15,325.00	10,717.45	53.40	78.48	-149.94	-5,235.60	113.71	4,212.57	4,096.97	115.60	36.442	
13,550.00	7,500.00	15,325.00	10,717.45	53.32	78.48	-148.39	-5,235.60	113.71	4,235.61	4,119.55	116.06	36.493	
13,600.00	7,500.00	15,325.00	10,717.45	53.22	78.48	-146.95	-5,235.60	113.71	4,257.71	4,141.20	116.51	36.544	
13,650.00	7,500.00	15,325.00	10,717.45	53.12	78.48	-145.60	-5,235.60	113.71	4,278.79	4,161.87	116.93	36.594	
13,700.00	7,500.00	15,313.46	10,717.53	53.00	78.33	-144.28	-5,224.07	113.16	4,298.79	4,181.59	117.19	36.681	
13,750.00	7,500.00	15,280.00	10,717.77	52.88	77.91	-142.95	-5,190.65	111.56	4,317.36	4,200.15	117.20	36.837	
13,800.00	7,500.00	15,252.03	10,718.07	52.75	77.55	-141.79	-5,162.71	110.21	4,334.43	4,217.18	117.25	36.968	
13,850.00	7,500.00	15,221.94	10,718.56	52.61	77.17	-140.77	-5,132.67	108.73	4,349.99	4,232.74	117.25	37.099	
13,900.00	7,500.00	15,181.35	10,719.22	52.48	76.66	-139.83	-5,092.14	106.63	4,363.86	4,246.73	117.13	37.258	
13,950.00	7,500.00	15,139.87	10,719.84	52.33	76.13	-139.03	-5,050.73	104.35	4,375.94	4,258.96	116.97	37.409	
14,000.00	7,500.00	14,857.00	10,723.82	52.19	72.61	-137.89	-4,768.12	98.11	4,385.72	4,271.56	114.16	38.417	
14,050.00	7,500.00	14,857.00	10,723.82	52.05	72.61	-137.58	-4,768.12	98.11	4,391.61	4,277.15	114.45	38.371	
14,100.00	7,500.00	14,812.99	10,724.31	51.90	72.07	-137.33	-4,724.11	98.58	4,395.49	4,281.25	114.23	38.478	
14,105.32	7,500.00	14,810.79	10,724.34	51.89	72.04	-137.31	-4,721.91	98.59	4,395.81	4,281.58	114.24	38.479	
14,200.00	7,500.00	14,762.00	10,725.47	51.63	71.44	-137.22	-4,673.14	98.63	4,401.04	4,286.85	114.19	38.542	
14,300.00	7,500.00	14,709.09	10,726.73	51.35	70.80	-137.15	-4,620.25	97.88	4,405.31	4,291.20	114.11	38.607	
14,333.98	7,500.00	14,685.70	10,727.09	51.26	70.51	-137.13	-4,596.87	97.21	4,406.39	4,292.37	114.02	38.646	
14,400.00	7,500.00	14,667.00	10,727.30	51.09	70.28	-137.13	-4,578.19	96.52	4,408.58	4,294.46	114.13	38.628	
14,500.00	7,500.00	14,572.00	10,728.21	50.84	69.12	-137.09	-4,483.33	91.51	4,412.58	4,298.97	113.62	38.838	
14,600.00	7,500.00	14,511.08	10,729.11	50.59	68.38	-137.07	-4,422.53	87.80	4,417.36	4,303.91	113.45	38.935	
14,700.00	7,500.00	14,003.00	10,740.20	50.35	62.43	-137.28	-3,915.25	97.68	4,415.75	4,307.07	108.69	40.629	
14,800.00	7,500.00	13,942.40	10,741.35	50.12	61.75	-137.34	-3,854.84	102.39	4,411.72	4,303.11	108.61	40.620	
14,900.00	7,500.00	13,908.00	10,742.23	49.90	61.36	-137.37	-3,820.53	104.65	4,409.02	4,300.22	108.81	40.521	
15,000.00	7,500.00	13,856.42	10,743.59	49.69	60.78	-137.41	-3,769.03	107.10	4,407.57	4,298.75	108.83	40.500	
15,037.53	7,500.00	13,840.75	10,743.96	49.61	60.61	-137.41	-3,753.37	107.55	4,407.38	4,298.51	108.87	40.482	
15,100.00	7,500.00	13,813.00	10,744.57	49.48	60.30	-137.42	-3,725.63	108.02	4,407.47	4,298.55	108.93	40.462	
15,200.00	7,500.00	7,417.10	7,415.10	49.28	25.85	-88.36	-389.10	146.57	4,348.42	4,289.58	58.84	73.903	
15,300.00	7,500.00	7,417.99	7,415.99	49.09	25.85	-88.38	-389.09	146.55	4,275.05	4,216.02	59.03	72.423	
15,400.00	7,500.00	7,418.87	7,416.88	48.91	25.85	-88.39	-389.08	146.53	4,202.79	4,143.55	59.24	70.949	
15,500.00	7,500.00	7,419.76	7,417.77	48.74	25.86	-88.41	-389.07	146.52	4,131.68	4,072.21	59.46	69.484	
15,600.00	7,500.00	7,420.66	7,418.66	48.57	25.86	-88.43	-389.06	146.50	4,061.78	4,002.08	59.71	68.028	
15,700.00	7,500.00	7,422.00	7,420.00	48.42	25.86	-88.45	-389.05	146.47	3,993.17	3,933.20	59.98	66.579	
15,800.00	7,500.00	7,422.00	7,420.00	48.27	25.86	-88.45	-389.05	146.47	3,925.91	3,865.66	60.25	65.157	
15,900.00	7,500.00	7,422.00	7,420.00	48.13	25.86	-88.45	-389.05	146.47	3,860.06	3,799.51	60.55	63.748	
16,000.00	7,500.00	7,422.00	7,420.00	48.01	25.86	-88.45	-389.05	146.47	3,795.71	3,734.84	60.87	62.356	
16,100.00	7,500.00	7,422.00	7,420.00	47.89	25.86	-88.45	-389.05	146.47	3,732.93	3,671.72	61.21	60.983	
16,200.00	7,500.00	7,422.00	7,420.00	47.78	25.86	-88.45	-389.05	146.47	3,671.80	3,610.22	61.58	59.630	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,300.00	7,500.00	7,426.43	7,424.43	47.68	25.88	-88.54	-389.01	146.39	3,612.40	3,550.39	62.01	58.258	
16,400.00	7,500.00	7,427.24	7,425.24	47.59	25.88	-88.56	-389.00	146.38	3,554.82	3,492.40	62.42	56.946	
16,500.00	7,500.00	7,428.06	7,426.06	47.51	25.88	-88.57	-389.00	146.36	3,499.15	3,436.29	62.86	55.662	
16,600.00	7,500.00	7,428.88	7,426.88	47.44	25.89	-88.59	-388.99	146.35	3,445.49	3,382.16	63.33	54.409	
16,700.00	7,500.00	7,429.70	7,427.70	47.39	25.89	-88.61	-388.98	146.33	3,393.92	3,330.12	63.81	53.190	
16,800.00	7,500.00	7,430.53	7,428.53	47.34	25.89	-88.62	-388.97	146.31	3,344.55	3,280.25	64.31	52.007	
16,900.00	7,500.00	7,431.36	7,429.36	47.31	25.89	-88.64	-388.97	146.30	3,297.48	3,232.65	64.83	50.863	
17,000.00	7,500.00	7,432.19	7,430.19	47.29	25.90	-88.65	-388.96	146.28	3,252.80	3,187.43	65.37	49.760	
17,100.00	7,500.00	7,433.02	7,431.02	47.28	25.90	-88.67	-388.95	146.27	3,210.61	3,144.68	65.92	48.702	
17,200.00	7,500.00	7,433.86	7,431.86	47.28	25.90	-88.69	-388.94	146.25	3,171.01	3,104.52	66.49	47.692	
17,300.00	7,500.00	7,434.70	7,432.69	47.30	25.91	-88.70	-388.94	146.23	3,134.11	3,067.04	67.07	46.731	
17,400.00	7,500.00	7,435.54	7,433.54	47.33	25.91	-88.72	-388.93	146.22	3,099.99	3,032.34	67.65	45.822	
17,500.00	7,500.00	7,436.38	7,434.38	47.37	25.91	-88.74	-388.92	146.20	3,068.75	3,000.51	68.24	44.967	
17,600.00	7,500.00	7,437.23	7,435.23	47.43	25.91	-88.75	-388.91	146.19	3,040.49	2,971.65	68.84	44.170	
17,700.00	7,500.00	7,438.08	7,436.08	47.50	25.92	-88.77	-388.90	146.17	3,015.27	2,945.85	69.43	43.431	
17,800.00	7,500.00	7,438.94	7,436.93	47.59	25.92	-88.79	-388.90	146.15	2,993.19	2,923.18	70.01	42.752	
17,900.00	7,500.00	7,439.79	7,437.79	47.69	25.92	-88.80	-388.89	146.14	2,974.30	2,903.71	70.59	42.135	
18,000.00	7,500.00	7,440.65	7,438.65	47.81	25.93	-88.82	-388.88	146.12	2,958.68	2,887.53	71.15	41.582	
18,100.00	7,500.00	7,441.51	7,439.51	47.94	25.93	-88.84	-388.87	146.10	2,946.37	2,874.67	71.70	41.092	
18,200.00	7,500.00	7,442.38	7,440.38	48.08	25.93	-88.85	-388.86	146.09	2,937.41	2,865.18	72.23	40.668	
18,300.00	7,500.00	7,443.25	7,441.25	48.25	25.93	-88.87	-388.86	146.07	2,931.84	2,859.10	72.74	40.308	
18,400.00	7,500.00	7,444.12	7,442.12	48.42	25.94	-88.89	-388.85	146.05	2,929.67	2,856.46	73.21	40.015	
18,413.53	7,500.00	7,444.24	7,442.24	48.45	25.94	-88.89	-388.85	146.05	2,929.64	2,856.36	73.28	39.980	
18,461.64	7,500.00	7,444.66	7,442.66	48.54	25.94	-88.90	-388.84	146.04	2,930.04	2,856.54	73.50	39.867	
18,462.14	7,500.00	7,444.66	7,442.66	49.47	25.94	-88.90	-388.84	146.04	2,930.04	2,856.57	73.47	39.879	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.71	89.28	57.35	4,576.74	4,577.37				
100.00	100.00	53.91	53.91	0.28	0.71	89.28	57.32	4,576.72	4,577.08	4,576.09	0.99	4,636.648	
200.00	200.00	184.23	184.23	0.63	0.83	89.28	57.22	4,576.03	4,576.52	4,575.05	1.46	3,124.088	
300.00	300.00	343.01	342.98	0.99	1.22	89.28	57.76	4,573.34	4,574.65	4,572.44	2.21	2,067.763	
400.00	400.00	442.61	442.56	1.35	1.53	89.27	58.34	4,571.32	4,572.63	4,569.76	2.87	1,593.876	
500.00	500.00	528.12	528.05	1.71	1.80	89.27	58.60	4,569.62	4,570.67	4,567.17	3.50	1,306.688	
600.00	599.98	600.00	599.92	2.06	2.03	-15.08	59.19	4,568.69	4,567.66	4,563.58	4.08	1,119.404	
700.00	699.84	666.34	666.25	2.40	2.25	-15.14	60.08	4,568.27	4,561.95	4,557.31	4.64	982.157	
750.00	749.68	704.55	704.46	2.58	2.37	-15.17	60.69	4,568.18	4,558.06	4,553.11	4.95	921.152	
800.00	799.49	757.79	757.69	2.75	2.55	-15.20	61.66	4,568.09	4,553.78	4,548.48	5.30	858.942	
900.00	899.11	866.46	866.33	3.10	2.92	-15.26	63.91	4,567.76	4,545.10	4,539.08	6.02	755.104	
1,000.00	998.73	990.00	989.84	3.46	3.34	-15.33	66.89	4,566.96	4,536.09	4,529.30	6.79	667.575	
1,001.27	1,000.00	991.64	991.48	3.46	3.35	-15.34	66.94	4,566.95	4,535.98	4,529.17	6.81	666.562	
1,100.00	1,098.18	1,139.04	1,138.80	3.81	3.86	-17.53	71.21	4,564.71	4,524.66	4,517.00	7.67	590.201	
1,200.00	1,197.22	1,262.65	1,262.35	4.18	4.28	-18.88	73.17	4,561.78	4,509.17	4,500.72	8.45	533.441	
1,300.00	1,295.71	1,372.05	1,371.72	4.54	4.66	-19.83	73.14	4,558.84	4,490.19	4,481.00	9.19	488.449	
1,400.00	1,393.53	1,487.77	1,487.38	4.91	5.06	-20.60	72.19	4,555.40	4,467.78	4,457.82	9.96	448.702	
1,414.82	1,407.97	1,505.24	1,504.85	4.97	5.12	-20.70	71.98	4,554.84	4,464.15	4,454.08	10.08	443.084	
1,500.00	1,490.88	1,589.55	1,589.10	5.28	5.41	-20.78	70.86	4,552.08	4,443.09	4,432.42	10.67	416.233	
1,600.00	1,588.22	1,701.48	1,700.94	5.66	5.81	-20.88	69.11	4,548.20	4,418.19	4,406.77	11.42	386.720	
1,700.00	1,685.56	1,773.56	1,772.98	6.04	6.06	-20.94	67.83	4,545.79	4,393.40	4,381.35	12.04	364.774	
1,800.00	1,782.90	1,838.70	1,838.07	6.42	6.29	-21.00	66.55	4,543.99	4,369.19	4,356.55	12.64	345.569	
1,900.00	1,880.24	1,900.00	1,899.35	6.80	6.50	-21.05	65.30	4,542.80	4,345.78	4,332.55	13.23	328.409	
2,000.00	1,977.58	1,960.29	1,959.63	7.18	6.71	-21.10	64.07	4,542.14	4,323.19	4,309.36	13.82	312.808	
2,100.00	2,074.91	2,026.74	2,026.06	7.57	6.94	-21.16	62.79	4,541.97	4,301.40	4,286.97	14.43	298.072	
2,200.00	2,172.25	2,100.00	2,099.31	7.95	7.19	-21.23	61.48	4,542.16	4,280.17	4,265.11	15.06	284.114	
2,300.00	2,269.59	2,160.50	2,159.80	8.34	7.40	-21.28	60.42	4,542.75	4,259.66	4,244.00	15.66	272.048	
2,400.00	2,366.93	2,200.00	2,199.29	8.73	7.53	-21.31	59.70	4,543.45	4,240.14	4,223.96	16.18	262.034	
2,500.00	2,464.27	2,275.61	2,274.86	9.11	7.79	-21.38	58.33	4,545.53	4,221.43	4,204.61	16.83	250.877	
2,600.00	2,561.61	2,336.91	2,336.10	9.50	8.01	-21.44	57.23	4,547.88	4,203.72	4,186.30	17.42	241.248	
2,700.00	2,658.95	2,403.62	2,402.72	9.89	8.24	-21.49	55.67	4,551.02	4,186.83	4,168.79	18.04	232.056	
2,800.00	2,756.29	2,625.23	2,624.13	10.28	9.02	-21.68	51.13	4,558.78	4,168.76	4,149.58	19.18	217.387	
2,900.00	2,853.63	2,739.71	2,738.59	10.67	9.42	-21.80	49.65	4,560.79	4,149.05	4,129.10	19.95	207.937	
3,000.00	2,950.97	2,836.09	2,834.95	11.06	9.75	-21.90	48.69	4,562.35	4,129.25	4,108.58	20.67	199.753	
3,100.00	3,048.31	2,938.40	2,937.24	11.45	10.11	-22.01	47.70	4,564.04	4,109.50	4,088.09	21.41	191.944	
3,200.00	3,145.64	3,055.90	3,054.73	11.84	10.52	-22.14	46.69	4,565.55	4,089.41	4,067.21	22.20	184.237	
3,300.00	3,242.98	3,159.58	3,158.40	12.23	10.88	-22.26	46.01	4,566.48	4,068.95	4,046.01	22.94	177.379	
3,400.00	3,340.32	3,255.26	3,254.07	12.62	11.21	-22.37	45.42	4,567.36	4,048.53	4,024.87	23.66	171.131	
3,500.00	3,437.66	3,359.53	3,358.34	13.01	11.57	-22.48	44.43	4,568.30	4,028.11	4,003.71	24.40	165.066	
3,600.00	3,535.00	3,478.55	3,477.34	13.40	11.98	-22.61	42.97	4,568.97	4,007.35	3,982.16	25.19	159.061	
3,700.00	3,632.34	3,582.08	3,580.87	13.79	12.35	-22.73	41.90	4,569.11	3,986.19	3,960.26	25.94	153.688	
3,800.00	3,729.68	3,679.34	3,678.13	14.19	12.68	-22.85	40.99	4,569.20	3,965.02	3,938.36	26.66	148.718	
3,900.00	3,827.02	3,784.09	3,782.87	14.58	13.05	-22.97	39.98	4,569.22	3,943.79	3,916.38	27.41	143.890	
4,000.00	3,924.36	3,883.52	3,882.29	14.97	13.40	-23.09	38.97	4,569.10	3,922.43	3,894.29	28.14	139.392	
4,100.00	4,021.70	3,988.01	3,986.78	15.36	13.76	-23.21	37.98	4,568.87	3,901.00	3,872.12	28.89	135.049	
4,200.00	4,119.04	4,089.90	4,088.66	15.75	14.11	-23.34	37.08	4,568.47	3,879.42	3,849.80	29.62	130.953	
4,300.00	4,216.37	4,193.68	4,192.44	16.15	14.48	-23.47	36.15	4,567.93	3,857.73	3,827.36	30.37	127.030	
4,400.00	4,313.71	4,299.75	4,298.50	16.54	14.85	-23.61	35.21	4,567.16	3,835.86	3,804.74	31.12	123.263	
4,500.00	4,411.05	4,395.44	4,394.19	16.93	15.18	-23.73	34.21	4,566.38	3,813.91	3,782.07	31.84	119.781	
4,600.00	4,508.39	4,494.25	4,492.98	17.32	15.53	-23.85	32.90	4,565.60	3,791.98	3,759.41	32.57	116.422	
4,700.00	4,605.73	4,592.94	4,591.66	17.72	15.87	-23.97	31.43	4,564.79	3,770.02	3,736.72	33.30	113.210	
4,800.00	4,703.07	4,687.28	4,685.98	18.11	16.20	-24.08	29.94	4,564.04	3,748.10	3,714.08	34.02	110.174	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	4,777.46	4,776.14	18.50	16.51	-24.19	28.33	4,563.46	3,726.32	3,691.59	34.73	107.302	
5,000.00	4,897.75	4,874.96	4,873.62	18.90	16.86	-24.30	26.19	4,562.99	3,704.68	3,669.22	35.46	104.489	
5,100.00	4,995.09	4,971.74	4,970.37	19.29	17.19	-24.41	23.82	4,562.51	3,683.02	3,646.84	36.18	101.793	
5,200.00	5,092.43	5,068.10	5,066.70	19.68	17.53	-24.52	21.39	4,562.08	3,661.41	3,624.50	36.91	99.207	
5,300.00	5,189.77	5,160.07	5,158.64	20.07	17.85	-24.63	19.06	4,561.72	3,639.87	3,602.25	37.62	96.752	
5,400.00	5,287.10	5,254.77	5,253.32	20.47	18.18	-24.74	17.04	4,561.48	3,618.51	3,580.17	38.34	94.375	
5,500.00	5,384.44	5,352.65	5,351.18	20.86	18.53	-24.86	14.94	4,561.23	3,597.16	3,558.09	39.07	92.066	
5,600.00	5,481.78	5,456.57	5,455.07	21.25	18.89	-24.99	12.72	4,560.91	3,575.78	3,535.96	39.82	89.805	
5,700.00	5,579.12	5,554.28	5,552.76	21.65	19.23	-25.11	10.54	4,560.41	3,554.20	3,513.66	40.55	87.657	
5,800.00	5,676.46	5,649.86	5,648.31	22.04	19.56	-25.23	8.30	4,560.06	3,532.78	3,491.51	41.27	85.600	
5,900.00	5,773.80	5,748.31	5,746.73	22.43	19.91	-25.35	5.98	4,559.65	3,511.31	3,469.31	42.00	83.598	
6,000.00	5,871.14	5,836.63	5,835.03	22.83	20.22	-25.46	3.99	4,559.34	3,489.94	3,447.23	42.71	81.714	
6,100.00	5,968.48	5,920.68	5,919.07	23.22	20.51	-25.58	2.48	4,559.37	3,469.00	3,425.59	43.41	79.921	
6,200.00	6,065.82	6,018.91	6,017.28	23.61	20.86	-25.71	0.78	4,559.52	3,448.21	3,404.07	44.14	78.125	
6,300.00	6,163.16	6,115.73	6,114.08	24.01	21.19	-25.85	-0.81	4,559.67	3,427.44	3,382.57	44.87	76.393	
6,400.00	6,260.50	6,212.50	6,210.84	24.40	21.53	-25.99	-2.33	4,559.83	3,406.70	3,361.11	45.59	74.718	
6,500.00	6,357.83	6,309.89	6,308.22	24.79	21.87	-26.13	-3.86	4,559.99	3,386.00	3,339.68	46.32	73.094	
6,600.00	6,455.17	6,408.72	6,407.04	25.19	22.22	-26.28	-5.44	4,560.19	3,365.34	3,318.28	47.06	71.515	
6,700.00	6,552.51	6,548.72	6,547.03	25.58	22.71	-26.51	-6.47	4,559.33	3,344.02	3,296.14	47.89	69.833	
6,800.00	6,649.85	6,770.38	6,768.53	25.98	23.48	-26.96	-5.21	4,551.55	3,319.84	3,270.98	48.86	67.944	
6,900.00	6,747.19	6,841.04	6,839.08	26.37	23.73	-27.12	-3.97	4,547.89	3,294.56	3,245.02	49.54	66.501	
7,000.00	6,844.53	6,900.00	6,897.98	26.76	23.94	-27.25	-3.02	4,545.58	3,270.45	3,220.25	50.20	65.150	
7,100.00	6,941.87	8,804.96	8,275.10	27.16	30.13	-15.07	-737.10	4,236.16	3,233.65	3,183.11	50.54	63.984	
7,115.01	6,956.48	8,805.30	8,275.12	27.22	30.13	-15.06	-737.43	4,236.12	3,224.39	3,173.72	50.67	63.633	
7,150.00	6,990.45	8,806.32	8,275.18	27.35	30.14	-30.91	-738.44	4,236.00	3,202.99	3,152.01	50.98	62.823	
7,200.00	7,038.53	8,808.58	8,275.29	27.55	30.16	-48.85	-740.68	4,235.73	3,172.98	3,121.55	51.43	61.691	
7,250.00	7,085.72	8,824.00	8,275.91	27.75	30.26	-61.75	-756.00	4,234.10	3,143.97	3,092.01	51.96	60.506	
7,300.00	7,131.67	8,824.00	8,275.91	27.94	30.26	-71.68	-756.00	4,234.10	3,115.92	3,063.54	52.38	59.489	
7,350.00	7,176.02	8,824.00	8,275.91	28.13	30.26	-79.38	-756.00	4,234.10	3,089.24	3,036.46	52.78	58.531	
7,400.00	7,218.44	8,831.73	8,276.13	28.32	30.32	-85.39	-763.70	4,233.40	3,064.16	3,010.94	53.22	57.580	
7,450.00	7,258.60	8,945.49	8,276.57	28.50	31.16	-88.60	-876.96	4,222.93	3,040.73	2,986.31	54.42	55.880	
7,500.00	7,296.21	9,030.00	8,274.98	28.67	31.85	-91.64	-960.94	4,213.59	3,017.95	2,962.50	55.45	54.425	
7,550.00	7,330.97	9,078.75	8,275.54	28.84	32.27	-94.70	-1,009.23	4,207.02	2,996.39	2,940.22	56.18	53.339	
7,600.00	7,362.62	9,115.46	8,276.80	28.99	32.60	-97.45	-1,045.54	4,201.72	2,976.51	2,919.73	56.78	52.423	
7,650.00	7,390.91	9,155.51	8,278.76	29.15	32.97	-99.76	-1,085.10	4,195.76	2,958.44	2,901.05	57.38	51.554	
7,700.00	7,415.64	9,197.00	8,280.91	29.30	33.36	-101.70	-1,126.06	4,189.56	2,942.24	2,884.26	57.98	50.746	
7,750.00	7,436.62	9,223.95	8,282.24	29.44	33.62	-103.41	-1,152.70	4,185.66	2,928.13	2,869.71	58.42	50.118	
7,800.00	7,453.68	9,260.00	8,283.77	29.57	33.97	-104.74	-1,188.38	4,180.80	2,916.35	2,857.42	58.92	49.493	
7,825.96	7,460.95	9,260.00	8,283.77	29.64	33.97	-105.38	-1,188.38	4,180.80	2,911.14	2,852.14	59.00	49.344	
7,900.00	7,477.79	9,324.00	8,285.89	29.84	34.60	-105.82	-1,251.87	4,172.95	2,898.09	2,838.30	59.80	48.466	
8,000.00	7,493.08	9,395.86	8,287.82	30.11	35.34	-106.42	-1,323.25	4,164.85	2,883.28	2,822.57	60.72	47.489	
8,100.00	7,499.70	9,473.92	8,289.74	30.38	36.16	-106.97	-1,400.84	4,156.62	2,871.59	2,809.93	61.66	46.571	
8,125.95	7,499.99	9,491.86	8,290.12	30.45	36.35	-107.10	-1,418.69	4,154.86	2,869.11	2,807.23	61.87	46.369	
8,200.00	7,499.99	9,642.49	8,293.79	30.65	38.02	-107.27	-1,568.40	4,138.71	2,862.07	2,798.52	63.55	45.035	
8,300.00	7,499.99	9,741.37	8,296.77	30.94	39.17	-107.41	-1,666.37	4,125.75	2,850.00	2,785.23	64.77	44.003	
8,400.00	7,499.99	9,818.76	8,298.82	31.24	40.09	-107.51	-1,743.17	4,116.36	2,838.74	2,772.95	65.79	43.146	
8,500.00	7,499.99	9,914.20	8,300.63	31.56	41.25	-107.61	-1,837.96	4,105.39	2,827.90	2,760.83	67.07	42.164	
8,600.00	7,500.00	10,012.25	8,301.41	31.88	42.46	-107.70	-1,935.39	4,094.40	2,817.02	2,748.60	68.42	41.170	
8,700.00	7,500.00	10,107.00	8,301.13	32.22	43.66	-107.76	-2,029.60	4,084.35	2,806.38	2,736.59	69.79	40.210	
8,800.00	7,500.00	10,313.63	8,300.30	32.58	46.35	-107.91	-2,234.59	4,058.60	2,794.04	2,721.50	72.54	38.518	
8,900.00	7,500.00	10,421.67	8,300.33	32.94	47.80	-108.02	-2,341.39	4,042.32	2,779.25	2,705.10	74.14	37.486	
9,000.00	7,500.00	10,469.00	8,300.91	33.32	48.44	-108.08	-2,388.20	4,035.34	2,765.30	2,690.26	75.04	36.849	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Offset Well Error: 0.50 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	7,500.00	10,532.00	8,302.95	33.71	49.30	-108.18	-2,450.56	4,026.63	2,752.85	2,676.70	76.15	36.151	
9,200.00	7,500.00	10,577.82	8,304.67	34.11	49.92	-108.25	-2,496.02	4,021.14	2,742.22	2,665.15	77.07	35.581	
9,300.00	7,500.00	10,623.94	8,305.85	34.52	50.55	-108.30	-2,541.92	4,016.78	2,733.60	2,655.58	78.02	35.039	
9,400.00	7,500.00	10,678.68	8,305.87	34.94	51.30	-108.33	-2,596.53	4,013.19	2,726.85	2,647.75	79.10	34.474	
9,500.00	7,500.00	10,764.54	8,304.01	35.37	52.48	-108.32	-2,682.28	4,009.09	2,721.19	2,640.57	80.63	33.751	
9,600.00	7,500.00	10,960.05	8,302.56	35.81	55.21	-108.39	-2,877.22	3,995.08	2,713.51	2,629.93	83.59	32.464	
9,700.00	7,500.00	11,046.11	8,302.82	36.26	56.43	-108.45	-2,962.93	3,987.42	2,704.73	2,619.58	85.15	31.765	
9,800.00	7,500.00	11,236.36	8,301.90	36.73	59.17	-108.57	-3,152.19	3,968.21	2,694.59	2,606.54	88.05	30.604	
9,900.00	7,500.00	11,331.66	8,301.93	37.20	60.56	-108.65	-3,246.80	3,956.77	2,682.79	2,593.02	89.77	29.886	
10,000.00	7,500.00	11,454.67	8,301.13	37.68	62.37	-108.74	-3,368.88	3,941.70	2,670.51	2,578.66	91.85	29.074	
10,100.00	7,500.00	11,638.21	8,300.55	38.17	65.09	-108.92	-3,550.49	3,915.31	2,656.35	2,561.71	94.64	28.067	
10,200.00	7,500.00	11,701.02	8,301.64	38.66	66.03	-109.02	-3,612.45	3,905.07	2,641.13	2,545.11	96.02	27.505	
10,300.00	7,500.00	11,742.00	8,303.31	39.17	66.64	-109.10	-3,652.92	3,898.88	2,627.80	2,530.65	97.15	27.050	
10,400.00	7,500.00	11,778.24	8,305.08	39.68	67.19	-109.17	-3,688.81	3,894.19	2,616.77	2,518.56	98.21	26.646	
10,500.00	7,500.00	11,819.75	8,306.88	40.20	67.81	-109.24	-3,730.07	3,890.07	2,608.22	2,508.89	99.32	26.260	
10,600.00	7,500.00	11,903.08	8,308.38	40.73	69.05	-109.32	-3,813.14	3,883.65	2,601.08	2,500.08	100.99	25.755	
10,700.00	7,500.00	11,988.79	8,308.15	41.26	70.33	-109.36	-3,898.66	3,878.00	2,594.35	2,491.62	102.73	25.254	
10,800.00	7,500.00	12,117.04	8,306.39	41.80	72.25	-109.38	-4,026.69	3,870.65	2,588.24	2,483.17	105.07	24.634	
10,900.00	7,500.00	12,315.55	8,298.95	42.35	75.25	-109.35	-4,224.37	3,854.35	2,578.78	2,470.44	108.34	23.803	
11,000.00	7,500.00	12,391.56	8,299.20	42.91	76.41	-109.42	-4,299.89	3,845.86	2,567.92	2,457.93	109.99	23.346	
11,100.00	7,500.00	12,476.32	8,301.69	43.47	77.71	-109.55	-4,384.10	3,836.54	2,558.05	2,446.31	111.74	22.894	
11,200.00	7,500.00	12,602.74	8,303.31	44.03	79.65	-109.69	-4,509.75	3,822.74	2,547.76	2,433.76	114.00	22.348	
11,300.00	7,500.00	12,680.53	8,303.61	44.61	80.85	-109.76	-4,587.06	3,814.12	2,537.10	2,421.39	115.71	21.927	
11,400.00	7,500.00	12,758.00	8,304.77	45.18	82.04	-109.85	-4,664.10	3,806.01	2,527.36	2,409.96	117.41	21.527	
11,500.00	7,500.00	12,821.00	8,305.54	45.77	83.01	-109.92	-4,726.84	3,800.41	2,518.97	2,400.04	118.93	21.180	
11,581.32	7,500.00	12,893.41	8,305.78	46.24	84.13	-109.96	-4,799.06	3,795.18	2,513.16	2,392.70	120.45	20.864	
11,600.00	7,500.00	12,916.38	8,305.60	46.35	84.48	-110.01	-4,821.96	3,793.54	2,511.57	2,390.68	120.89	20.776	
11,650.00	7,500.00	12,963.62	8,304.95	46.65	85.21	-110.20	-4,869.08	3,790.17	2,505.29	2,383.43	121.86	20.559	
11,700.00	7,500.00	12,995.66	8,304.86	46.96	85.70	-110.46	-4,901.04	3,787.93	2,496.47	2,373.86	122.61	20.360	
11,750.00	7,500.00	13,031.84	8,305.27	47.27	86.26	-110.83	-4,937.14	3,785.48	2,485.18	2,361.78	123.40	20.139	
11,800.00	7,500.00	13,075.00	8,305.95	47.59	86.93	-111.32	-4,980.20	3,782.64	2,471.33	2,347.08	124.26	19.889	
11,850.00	7,500.00	13,149.63	8,306.57	47.91	88.09	-112.03	-5,054.65	3,777.46	2,454.52	2,329.01	125.51	19.557	
11,900.00	7,500.00	13,189.11	8,306.40	48.23	88.70	-112.75	-5,094.03	3,774.74	2,434.94	2,308.65	126.29	19.281	
11,950.00	7,500.00	13,231.15	8,305.91	48.56	89.35	-113.62	-5,135.99	3,772.04	2,412.92	2,285.84	127.08	18.988	
12,000.00	7,500.00	13,273.76	8,305.13	48.88	90.01	-114.64	-5,178.51	3,769.42	2,388.49	2,260.63	127.86	18.681	
12,050.00	7,500.00	13,305.00	8,304.53	49.20	90.49	-115.77	-5,209.68	3,767.51	2,361.74	2,233.28	128.46	18.386	
12,100.00	7,500.00	13,305.00	8,304.53	49.52	90.49	-116.84	-5,209.68	3,767.51	2,333.25	2,204.64	128.61	18.143	
12,150.00	7,500.00	13,305.00	8,304.53	49.83	90.49	-118.04	-5,209.68	3,767.51	2,303.27	2,174.56	128.71	17.896	
12,200.00	7,500.00	13,305.00	8,304.53	50.14	90.49	-119.39	-5,209.68	3,767.51	2,271.85	2,143.09	128.76	17.645	
12,250.00	7,500.00	13,305.00	8,304.53	50.44	90.49	-120.91	-5,209.68	3,767.51	2,239.05	2,110.30	128.76	17.390	
12,300.00	7,500.00	13,305.00	8,304.53	50.74	90.49	-122.61	-5,209.68	3,767.51	2,204.94	2,076.23	128.71	17.131	
12,350.00	7,500.00	13,305.00	8,304.53	51.02	90.49	-124.54	-5,209.68	3,767.51	2,169.58	2,040.97	128.62	16.869	
12,400.00	7,500.00	13,305.00	8,304.53	51.30	90.49	-126.70	-5,209.68	3,767.51	2,133.04	2,004.57	128.48	16.603	
12,450.00	7,500.00	13,305.00	8,304.53	51.56	90.49	-129.15	-5,209.68	3,767.51	2,095.40	1,967.11	128.29	16.333	
12,500.00	7,500.00	13,305.00	8,304.53	51.81	90.49	-131.90	-5,209.68	3,767.51	2,056.74	1,928.68	128.06	16.061	
12,550.00	7,500.00	13,305.00	8,304.53	52.05	90.49	-135.00	-5,209.68	3,767.51	2,017.14	1,889.36	127.78	15.786	
12,600.00	7,500.00	13,305.00	8,304.53	52.27	90.49	-138.48	-5,209.68	3,767.51	1,976.70	1,849.24	127.47	15.508	
12,650.00	7,500.00	13,305.00	8,304.53	52.48	90.49	-142.36	-5,209.68	3,767.51	1,935.53	1,808.42	127.11	15.227	
12,700.00	7,500.00	13,305.00	8,304.53	52.67	90.49	-146.68	-5,209.68	3,767.51	1,893.72	1,767.01	126.71	14.945	
12,750.00	7,500.00	13,305.00	8,304.53	52.84	90.49	-151.41	-5,209.68	3,767.51	1,851.40	1,725.12	126.28	14.661	
12,800.00	7,500.00	13,305.00	8,304.53	53.00	90.49	-156.54	-5,209.68	3,767.51	1,808.70	1,682.88	125.82	14.376	
12,850.00	7,500.00	13,305.00	8,304.53	53.14	90.49	-161.99	-5,209.68	3,767.51	1,765.73	1,640.42	125.32	14.090	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,900.00	7,500.00	13,305.00	8,304.53	53.27	90.49	-167.68	-5,209.68	3,767.51	1,722.66	1,597.88	124.78	13.805	
12,950.00	7,500.00	13,305.00	8,304.53	53.37	90.49	-173.47	-5,209.68	3,767.51	1,679.64	1,555.41	124.22	13.521	
13,000.00	7,500.00	13,305.00	8,304.53	53.46	90.49	-179.21	-5,209.68	3,767.51	1,636.83	1,513.19	123.64	13.239	
13,050.00	7,500.00	13,305.00	8,304.53	53.53	90.49	175.23	-5,209.68	3,767.51	1,594.41	1,471.39	123.02	12.960	
13,100.00	7,500.00	13,305.00	8,304.53	53.58	90.49	169.97	-5,209.68	3,767.51	1,552.59	1,430.20	122.38	12.686	
13,150.00	7,500.00	13,305.00	8,304.53	53.62	90.49	165.10	-5,209.68	3,767.51	1,511.56	1,389.84	121.72	12.418	
13,200.00	7,500.00	13,305.00	8,304.53	53.63	90.49	160.67	-5,209.68	3,767.51	1,471.56	1,350.53	121.04	12.158	
13,250.00	7,500.00	13,305.00	8,304.53	53.63	90.49	156.70	-5,209.68	3,767.51	1,432.82	1,312.50	120.33	11.908	
13,300.00	7,500.00	13,305.00	8,304.53	53.62	90.49	153.19	-5,209.68	3,767.51	1,395.60	1,276.01	119.59	11.670	
13,350.00	7,500.00	13,305.00	8,304.53	53.58	90.49	150.11	-5,209.68	3,767.51	1,360.16	1,241.33	118.83	11.446	
13,400.00	7,500.00	13,305.00	8,304.53	53.54	90.49	147.45	-5,209.68	3,767.51	1,326.78	1,208.74	118.04	11.240	
13,450.00	7,500.00	13,305.00	8,304.53	53.48	90.49	145.16	-5,209.68	3,767.51	1,295.75	1,178.53	117.22	11.054	
13,500.00	7,500.00	13,305.00	8,304.53	53.40	90.49	143.21	-5,209.68	3,767.51	1,267.36	1,150.99	116.37	10.891	
13,550.00	7,500.00	13,305.00	8,304.53	53.32	90.49	141.58	-5,209.68	3,767.51	1,241.89	1,126.41	115.48	10.754	
13,600.00	7,500.00	13,305.00	8,304.53	53.22	90.49	140.24	-5,209.68	3,767.51	1,219.63	1,105.08	114.55	10.647	
13,650.00	7,500.00	13,268.96	8,305.23	53.12	89.94	139.94	-5,173.71	3,769.71	1,200.30	1,086.81	113.49	10.577	
13,700.00	7,500.00	13,223.26	8,306.02	53.00	89.23	139.90	-5,128.11	3,772.54	1,183.08	1,070.63	112.45	10.521	
13,750.00	7,500.00	13,175.35	8,306.50	52.88	88.48	139.92	-5,080.31	3,775.66	1,167.85	1,056.36	111.48	10.476	
13,800.00	7,500.00	13,121.93	8,306.49	52.75	87.66	140.00	-5,027.02	3,779.46	1,154.56	1,043.98	110.58	10.441	
13,850.00	7,500.00	13,061.65	8,305.72	52.61	86.72	140.14	-4,966.88	3,783.51	1,142.71	1,032.97	109.74	10.413	
13,900.00	7,500.00	13,018.51	8,305.09	52.48	86.06	140.07	-4,923.84	3,786.37	1,132.81	1,023.78	109.04	10.389	
13,950.00	7,500.00	12,983.02	8,304.84	52.33	85.51	139.97	-4,888.44	3,788.81	1,125.27	1,016.84	108.42	10.378	SF
14,000.00	7,500.00	12,949.49	8,305.13	52.19	84.99	139.93	-4,854.99	3,791.17	1,120.35	1,012.48	107.87	10.386	
14,050.00	7,500.00	12,888.13	8,305.81	52.05	84.05	140.04	-4,793.79	3,795.56	1,117.51	1,010.19	107.32	10.413	
14,100.00	7,500.00	12,826.42	8,305.60	51.90	83.10	140.06	-4,732.24	3,800.02	1,116.10	1,009.26	106.84	10.446	
14,105.32	7,500.00	12,821.00	8,305.54	51.89	83.01	140.05	-4,726.84	3,800.41	1,116.04	1,009.24	106.80	10.450	ES
14,128.08	7,500.00	12,803.55	8,305.33	51.82	82.74	140.04	-4,709.44	3,801.77	1,115.92	1,009.28	106.64	10.464	CC
14,200.00	7,500.00	12,747.24	8,304.64	51.63	81.88	139.94	-4,653.39	3,807.14	1,117.09	1,010.91	106.18	10.521	
14,300.00	7,500.00	12,657.15	8,303.39	51.35	80.49	139.69	-4,563.82	3,816.65	1,121.30	1,015.72	105.58	10.620	
14,333.98	7,500.00	12,633.22	8,303.32	51.26	80.12	139.62	-4,540.04	3,819.31	1,123.66	1,018.26	105.40	10.661	
14,400.00	7,500.00	12,553.80	8,302.97	51.09	78.90	139.25	-4,461.12	3,828.14	1,128.42	1,023.42	104.99	10.748	
14,500.00	7,500.00	12,441.00	8,300.68	50.84	77.17	138.69	-4,349.00	3,840.35	1,134.28	1,029.90	104.38	10.867	
14,600.00	7,500.00	12,359.30	8,298.54	50.59	75.92	138.25	-4,267.85	3,849.57	1,140.22	1,036.40	103.83	10.982	
14,700.00	7,500.00	12,287.38	8,299.88	50.35	74.83	138.00	-4,196.36	3,857.20	1,148.90	1,045.69	103.21	11.131	
14,800.00	7,500.00	12,164.24	8,304.90	50.12	72.96	137.77	-4,073.75	3,867.43	1,157.87	1,055.43	102.44	11.303	
14,900.00	7,500.00	12,031.50	8,307.77	49.90	70.97	137.55	-3,941.29	3,875.53	1,163.82	1,062.23	101.59	11.456	
15,000.00	7,500.00	11,935.10	8,308.42	49.69	69.53	137.34	-3,845.08	3,881.43	1,168.77	1,067.87	100.90	11.584	
15,100.00	7,500.00	11,817.94	8,306.81	49.48	67.78	136.95	-3,728.28	3,890.23	1,173.19	1,073.06	100.13	11.717	
15,200.00	7,500.00	11,742.00	8,303.31	49.28	66.64	136.52	-3,652.92	3,898.88	1,177.94	1,078.37	99.58	11.829	
15,300.00	7,500.00	11,679.00	8,301.06	49.09	65.70	136.09	-3,590.72	3,908.62	1,185.97	1,086.94	99.03	11.975	
15,400.00	7,500.00	11,617.92	8,300.54	48.91	64.79	135.72	-3,530.47	3,918.60	1,196.86	1,098.44	98.43	12.160	
15,500.00	7,500.00	11,484.58	8,301.02	48.74	62.81	135.05	-3,398.56	3,937.97	1,207.72	1,110.06	97.65	12.367	
15,600.00	7,500.00	11,386.81	8,301.33	48.57	61.37	134.63	-3,301.57	3,950.39	1,217.30	1,120.36	96.94	12.558	
15,700.00	7,500.00	11,279.00	8,302.04	48.42	59.79	134.22	-3,194.52	3,963.04	1,226.48	1,130.30	96.18	12.752	
15,800.00	7,500.00	11,177.10	8,301.85	48.27	58.31	133.81	-3,093.33	3,975.12	1,235.23	1,139.80	95.43	12.943	
15,900.00	7,500.00	11,052.86	8,302.79	48.13	56.53	133.45	-2,969.66	3,986.85	1,242.90	1,148.30	94.60	13.139	
16,000.00	7,500.00	10,949.32	8,302.46	48.01	55.06	133.13	-2,866.53	3,996.08	1,249.50	1,155.66	93.84	13.315	
16,100.00	7,500.00	10,843.96	8,302.10	47.89	53.58	132.83	-2,761.56	4,005.02	1,255.82	1,162.75	93.08	13.492	
16,200.00	7,500.00	10,735.06	8,304.79	47.78	52.07	132.73	-2,652.83	4,010.41	1,261.45	1,169.12	92.32	13.663	
16,300.00	7,500.00	10,633.74	8,305.97	47.68	50.69	132.59	-2,551.68	4,016.02	1,266.63	1,175.02	91.61	13.826	
16,400.00	7,500.00	10,552.92	8,303.78	47.59	49.58	132.26	-2,471.30	4,023.98	1,272.47	1,181.49	90.98	13.987	
16,500.00	7,500.00	10,483.06	8,301.26	47.51	48.63	131.89	-2,402.11	4,033.33	1,280.38	1,190.02	90.36	14.170	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	7,500.00	10,416.75	8,300.32	47.44	47.73	131.55	-2,336.53	4,043.06	1,290.80	1,201.06	89.74	14.384	
16,700.00	7,500.00	10,310.63	8,300.29	47.39	46.31	131.07	-2,231.62	4,059.05	1,302.49	1,213.52	88.97	14.639	
16,800.00	7,500.00	10,192.29	8,300.36	47.34	44.75	130.59	-2,114.38	4,075.16	1,313.24	1,225.06	88.18	14.893	
16,900.00	7,500.00	10,076.67	8,301.30	47.31	43.27	130.26	-1,999.44	4,087.52	1,322.22	1,234.79	87.43	15.123	
17,000.00	7,500.00	9,974.95	8,301.25	47.29	42.00	129.94	-1,898.31	4,098.52	1,330.83	1,244.08	86.75	15.342	
17,100.00	7,500.00	9,868.21	8,299.88	47.28	40.69	129.55	-1,792.27	4,110.62	1,339.08	1,253.05	86.04	15.564	
17,200.00	7,500.00	9,768.69	8,297.53	47.28	39.49	129.14	-1,693.47	4,122.35	1,347.08	1,261.72	85.36	15.781	
17,300.00	7,500.00	9,677.57	8,294.94	47.30	38.42	128.73	-1,603.16	4,134.14	1,355.73	1,271.00	84.72	16.002	
17,400.00	7,500.00	9,554.26	8,291.32	47.33	37.03	128.21	-1,480.79	4,148.85	1,363.63	1,279.65	83.98	16.238	
17,500.00	7,500.00	9,454.77	8,289.30	47.37	35.96	127.88	-1,381.79	4,158.58	1,370.44	1,287.05	83.40	16.433	
17,600.00	7,500.00	9,362.50	8,286.94	47.43	35.00	127.53	-1,290.10	4,168.54	1,377.80	1,294.95	82.86	16.629	
17,700.00	7,500.00	9,271.00	8,284.18	47.50	34.08	127.16	-1,199.28	4,179.40	1,385.79	1,303.46	82.33	16.833	
17,800.00	7,500.00	9,184.88	8,280.28	47.59	33.24	126.72	-1,114.10	4,191.37	1,394.59	1,312.79	81.80	17.049	
17,900.00	7,500.00	9,095.33	8,276.03	47.69	32.42	126.25	-1,025.64	4,204.65	1,404.14	1,322.86	81.28	17.275	
18,000.00	7,500.00	9,010.35	8,275.23	47.81	31.68	125.94	-941.44	4,215.99	1,414.76	1,333.89	80.87	17.494	
18,100.00	7,500.00	8,840.27	8,276.33	47.94	30.38	125.56	-772.20	4,232.65	1,423.51	1,342.98	80.53	17.677	
18,200.00	7,500.00	8,780.38	8,273.54	48.08	29.96	125.30	-712.82	4,239.64	1,430.86	1,350.62	80.25	17.831	
18,300.00	7,500.00	8,729.00	8,270.28	48.25	29.61	124.99	-662.30	4,248.44	1,441.62	1,361.70	79.92	18.039	
18,400.00	7,500.00	8,697.00	8,268.05	48.42	29.40	124.75	-631.20	4,255.59	1,456.38	1,376.81	79.57	18.304	
18,461.64	7,500.00	8,666.00	8,265.45	48.54	29.19	124.47	-601.47	4,263.97	1,467.57	1,388.27	79.30	18.507	
18,462.14	7,500.00	8,666.00	8,265.45	49.47	29.19	124.47	-601.47	4,263.97	1,467.67	1,387.54	80.13	18.316	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Survey Program: 156-MWD OWSG Rev5 — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	19,907.00	9,811.90	0.00	171.86	87.31	55.55	1,182.04	9,860.16				
100.00	100.00	19,907.00	9,811.90	0.28	171.86	87.31	55.55	1,182.04	9,760.89	9,666.18	94.72	103.055	
200.00	200.00	19,907.00	9,811.90	0.63	171.86	87.31	55.55	1,182.04	9,661.64	9,566.84	94.79	101.922	
300.00	300.00	19,907.00	9,811.90	0.99	171.86	87.31	55.55	1,182.04	9,562.40	9,467.52	94.88	100.783	
400.00	400.00	19,907.00	9,811.90	1.35	171.86	87.31	55.55	1,182.04	9,463.17	9,368.20	94.98	99.638	
500.00	500.00	19,907.00	9,811.90	1.71	171.86	87.31	55.55	1,182.04	9,363.97	9,268.89	95.08	98.487	
600.00	599.98	19,907.00	9,811.90	2.06	171.86	-23.18	55.55	1,182.04	9,264.58	9,169.40	95.18	97.336	
700.00	699.84	19,907.00	9,811.90	2.40	171.86	-35.36	55.55	1,182.04	9,164.91	9,069.64	95.27	96.198	
750.00	749.68	19,907.00	9,811.90	2.58	171.86	-46.49	55.55	1,182.04	9,114.99	9,019.69	95.31	95.636	
800.00	799.49	19,907.00	9,811.90	2.75	171.86	-46.49	55.55	1,182.04	9,065.06	8,969.72	95.34	95.078	
900.00	899.11	19,907.00	9,811.90	3.10	171.86	-46.49	55.55	1,182.04	8,965.20	8,869.79	95.41	93.961	
1,000.00	998.73	19,907.00	9,811.90	3.46	171.86	-46.49	55.55	1,182.04	8,865.35	8,769.86	95.49	92.841	
1,001.27	1,000.00	19,907.00	9,811.90	3.46	171.86	-46.49	55.55	1,182.04	8,864.08	8,768.58	95.49	92.827	
1,100.00	1,098.18	19,907.00	9,811.90	3.81	171.86	-87.90	55.55	1,182.04	8,765.46	8,669.90	95.56	91.728	
1,200.00	1,197.22	19,907.00	9,811.90	4.18	171.86	-126.18	55.55	1,182.04	8,665.58	8,569.97	95.61	90.637	
1,300.00	1,295.71	19,907.00	9,811.90	4.54	171.86	-145.14	55.55	1,182.04	8,565.84	8,470.20	95.63	89.571	
1,400.00	1,393.53	19,907.00	9,811.90	4.91	171.86	-154.58	55.55	1,182.04	8,466.36	8,370.72	95.63	88.529	
1,414.82	1,407.97	19,907.00	9,811.90	4.97	171.86	-155.57	55.55	1,182.04	8,451.64	8,356.01	95.63	88.380	
1,500.00	1,490.88	19,907.00	9,811.90	5.28	171.86	-155.57	55.55	1,182.04	8,367.11	8,271.49	95.62	87.502	
1,600.00	1,588.22	19,907.00	9,811.90	5.66	171.86	-155.57	55.55	1,182.04	8,267.89	8,172.28	95.62	86.468	
1,700.00	1,685.56	19,907.00	9,811.90	6.04	171.86	-155.57	55.55	1,182.04	8,168.69	8,073.08	95.62	85.431	
1,800.00	1,782.90	19,907.00	9,811.90	6.42	171.86	-155.57	55.55	1,182.04	8,069.51	7,973.89	95.62	84.392	
1,900.00	1,880.24	19,907.00	9,811.90	6.80	171.86	-155.57	55.55	1,182.04	7,970.35	7,874.73	95.62	83.351	
2,000.00	1,977.58	19,907.00	9,811.90	7.18	171.86	-155.57	55.55	1,182.04	7,871.21	7,775.58	95.63	82.309	
2,100.00	2,074.91	19,907.00	9,811.90	7.57	171.86	-155.57	55.55	1,182.04	7,772.09	7,676.46	95.64	81.265	
2,200.00	2,172.25	19,907.00	9,811.90	7.95	171.86	-155.57	55.55	1,182.04	7,673.00	7,577.35	95.65	80.219	
2,300.00	2,269.59	19,907.00	9,811.90	8.34	171.86	-155.57	55.55	1,182.04	7,573.93	7,478.27	95.66	79.173	
2,400.00	2,366.93	19,907.00	9,811.90	8.73	171.86	-155.57	55.55	1,182.04	7,474.88	7,379.21	95.68	78.125	
2,500.00	2,464.27	19,907.00	9,811.90	9.11	171.86	-155.57	55.55	1,182.04	7,375.86	7,280.17	95.69	77.077	
2,600.00	2,561.61	19,907.00	9,811.90	9.50	171.86	-155.57	55.55	1,182.04	7,276.87	7,181.16	95.71	76.028	
2,700.00	2,658.95	19,907.00	9,811.90	9.89	171.86	-155.57	55.55	1,182.04	7,177.90	7,082.17	95.73	74.979	
2,800.00	2,756.29	19,907.00	9,811.90	10.28	171.86	-155.57	55.55	1,182.04	7,078.97	6,983.21	95.75	73.930	
2,900.00	2,853.63	19,907.00	9,811.90	10.67	171.86	-155.57	55.55	1,182.04	6,980.06	6,884.29	95.77	72.880	
3,000.00	2,950.97	19,907.00	9,811.90	11.06	171.86	-155.57	55.55	1,182.04	6,881.19	6,785.39	95.80	71.830	
3,100.00	3,048.31	19,907.00	9,811.90	11.45	171.86	-155.57	55.55	1,182.04	6,782.35	6,686.52	95.82	70.781	
3,200.00	3,145.64	19,907.00	9,811.90	11.84	171.86	-155.57	55.55	1,182.04	6,683.54	6,587.69	95.85	69.731	
3,300.00	3,242.98	19,907.00	9,811.90	12.23	171.86	-155.57	55.55	1,182.04	6,584.77	6,488.89	95.87	68.682	
3,400.00	3,340.32	19,907.00	9,811.90	12.62	171.86	-155.57	55.55	1,182.04	6,486.03	6,390.13	95.90	67.634	
3,500.00	3,437.66	19,907.00	9,811.90	13.01	171.86	-155.57	55.55	1,182.04	6,387.34	6,291.41	95.93	66.586	
3,600.00	3,535.00	19,907.00	9,811.90	13.40	171.86	-155.57	55.55	1,182.04	6,288.69	6,192.73	95.95	65.539	
3,700.00	3,632.34	19,907.00	9,811.90	13.79	171.86	-155.57	55.55	1,182.04	6,190.08	6,094.10	95.98	64.492	
3,800.00	3,729.68	19,907.00	9,811.90	14.19	171.86	-155.57	55.55	1,182.04	6,091.51	5,995.50	96.01	63.446	
3,900.00	3,827.02	19,907.00	9,811.90	14.58	171.86	-155.57	55.55	1,182.04	5,993.00	5,896.96	96.04	62.401	
4,000.00	3,924.36	19,907.00	9,811.90	14.97	171.86	-155.57	55.55	1,182.04	5,894.53	5,798.46	96.07	61.358	
4,100.00	4,021.70	19,907.00	9,811.90	15.36	171.86	-155.57	55.55	1,182.04	5,796.12	5,700.02	96.10	60.315	
4,200.00	4,119.04	19,907.00	9,811.90	15.75	171.86	-155.57	55.55	1,182.04	5,697.76	5,601.63	96.13	59.273	
4,300.00	4,216.37	19,907.00	9,811.90	16.15	171.86	-155.57	55.55	1,182.04	5,599.46	5,503.30	96.16	58.233	
4,400.00	4,313.71	19,907.00	9,811.90	16.54	171.86	-155.57	55.55	1,182.04	5,501.22	5,405.03	96.19	57.193	
4,500.00	4,411.05	19,907.00	9,811.90	16.93	171.86	-155.57	55.55	1,182.04	5,403.04	5,306.83	96.22	56.156	
4,600.00	4,508.39	19,907.00	9,811.90	17.32	171.86	-155.57	55.55	1,182.04	5,304.94	5,208.69	96.25	55.119	
4,700.00	4,605.73	19,907.00	9,811.90	17.72	171.86	-155.57	55.55	1,182.04	5,206.90	5,110.63	96.27	54.084	
4,800.00	4,703.07	19,907.00	9,811.90	18.11	171.86	-155.57	55.55	1,182.04	5,108.94	5,012.64	96.30	53.050	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 156-MWD OWSG Rev5

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	19,907.00	9,811.90	18.50	171.86	-155.57	55.55	1,182.04	5,011.06	4,914.73	96.33	52.018	
5,000.00	4,897.75	19,907.00	9,811.90	18.90	171.86	-155.57	55.55	1,182.04	4,913.27	4,816.91	96.36	50.988	
5,100.00	4,995.09	19,907.00	9,811.90	19.29	171.86	-155.57	55.55	1,182.04	4,815.57	4,719.18	96.39	49.959	
5,200.00	5,092.43	19,907.00	9,811.90	19.68	171.86	-155.57	55.55	1,182.04	4,717.97	4,621.55	96.42	48.932	
5,300.00	5,189.77	19,907.00	9,811.90	20.07	171.86	-155.57	55.55	1,182.04	4,620.46	4,524.02	96.45	47.907	
5,400.00	5,287.10	19,907.00	9,811.90	20.47	171.86	-155.57	55.55	1,182.04	4,523.07	4,426.59	96.48	46.883	
5,500.00	5,384.44	19,907.00	9,811.90	20.86	171.86	-155.57	55.55	1,182.04	4,425.79	4,329.29	96.50	45.861	
5,600.00	5,481.78	19,907.00	9,811.90	21.25	171.86	-155.57	55.55	1,182.04	4,328.64	4,232.10	96.53	44.841	
5,700.00	5,579.12	19,907.00	9,811.90	21.65	171.86	-155.57	55.55	1,182.04	4,231.62	4,135.05	96.56	43.823	
5,800.00	5,676.46	19,907.00	9,811.90	22.04	171.86	-155.57	55.55	1,182.04	4,134.74	4,038.14	96.59	42.806	
5,900.00	5,773.80	19,907.00	9,811.90	22.43	171.86	-155.57	55.55	1,182.04	4,038.01	3,941.39	96.62	41.791	
6,000.00	5,871.14	19,907.00	9,811.90	22.83	171.86	-155.57	55.55	1,182.04	3,941.45	3,844.79	96.66	40.778	
6,100.00	5,968.48	19,907.00	9,811.90	23.22	171.86	-155.57	55.55	1,182.04	3,845.06	3,748.37	96.69	39.767	
6,200.00	6,065.82	19,907.00	9,811.90	23.61	171.86	-155.57	55.55	1,182.04	3,748.86	3,652.13	96.73	38.757	
6,300.00	6,163.16	19,907.00	9,811.90	24.01	171.86	-155.57	55.55	1,182.04	3,652.87	3,556.10	96.77	37.749	
6,400.00	6,260.50	19,907.00	9,811.90	24.40	171.86	-155.57	55.55	1,182.04	3,557.09	3,460.28	96.81	36.742	
6,500.00	6,357.83	19,907.00	9,811.90	24.79	171.86	-155.57	55.55	1,182.04	3,461.56	3,364.70	96.86	35.737	
6,600.00	6,455.17	19,907.00	9,811.90	25.19	171.86	-155.57	55.55	1,182.04	3,366.28	3,269.36	96.92	34.733	
6,700.00	6,552.51	19,907.00	9,811.90	25.58	171.86	-155.57	55.55	1,182.04	3,271.29	3,174.31	96.98	33.731	
6,800.00	6,649.85	19,907.00	9,811.90	25.98	171.86	-155.57	55.55	1,182.04	3,176.60	3,079.55	97.06	32.730	
6,900.00	6,747.19	19,907.00	9,811.90	26.37	171.86	-155.57	55.55	1,182.04	3,082.25	2,985.11	97.14	31.729	
7,000.00	6,844.53	19,907.00	9,811.90	26.76	171.86	-155.57	55.55	1,182.04	2,988.27	2,891.03	97.25	30.729	
7,100.00	6,941.87	19,907.00	9,811.90	27.16	171.86	-155.57	55.55	1,182.04	2,894.69	2,797.32	97.37	29.730	
7,115.01	6,956.48	19,907.00	9,811.90	27.22	171.86	-155.57	55.55	1,182.04	2,880.68	2,783.30	97.39	29.580	
7,150.00	6,990.45	19,907.00	9,811.90	27.35	171.86	-162.49	55.55	1,182.04	2,848.33	2,750.90	97.43	29.235	
7,200.00	7,038.53	19,907.00	9,811.90	27.55	171.86	-169.98	55.55	1,182.04	2,803.33	2,705.85	97.49	28.756	
7,250.00	7,085.72	19,907.00	9,811.90	27.75	171.86	-174.74	55.55	1,182.04	2,760.16	2,662.62	97.54	28.299	
7,300.00	7,131.67	19,907.00	9,811.90	27.94	171.86	-177.70	55.55	1,182.04	2,719.22	2,621.64	97.58	27.867	
7,350.00	7,176.02	19,907.00	9,811.90	28.13	171.86	-179.59	55.55	1,182.04	2,680.96	2,583.34	97.62	27.464	
7,400.00	7,218.44	19,907.00	9,811.90	28.32	171.86	179.14	55.55	1,182.04	2,645.77	2,548.12	97.64	27.096	
7,450.00	7,258.60	19,907.00	9,811.90	28.50	171.86	178.24	55.55	1,182.04	2,614.05	2,516.39	97.66	26.766	
7,500.00	7,296.21	19,907.00	9,811.90	28.67	171.86	177.56	55.55	1,182.04	2,586.19	2,488.52	97.67	26.480	
7,550.00	7,330.97	19,907.00	9,811.90	28.84	171.86	177.02	55.55	1,182.04	2,562.52	2,464.86	97.65	26.241	
7,600.00	7,362.62	19,907.00	9,811.90	28.99	171.86	176.55	55.55	1,182.04	2,543.33	2,445.71	97.62	26.052	
7,650.00	7,390.91	19,907.00	9,811.90	29.15	171.86	176.13	55.55	1,182.04	2,528.89	2,431.31	97.57	25.918	
7,700.00	7,415.64	19,907.00	9,811.90	29.30	171.86	175.72	55.55	1,182.04	2,519.37	2,421.88	97.49	25.842	
7,750.00	7,436.62	19,907.00	9,811.90	29.44	171.86	175.29	55.55	1,182.04	2,514.91	2,417.53	97.38	25.825	
7,768.52	7,443.40	19,907.00	9,811.90	29.49	171.86	175.13	55.55	1,182.04	2,514.56	2,417.23	97.34	25.834	CC, ES
7,800.00	7,453.68	19,907.00	9,811.90	29.57	171.86	174.85	55.55	1,182.04	2,515.58	2,418.33	97.25	25.868	
7,825.96	7,460.95	19,907.00	9,811.90	29.64	171.86	174.59	55.55	1,182.04	2,517.94	2,420.78	97.16	25.915	
7,900.00	7,477.79	19,907.00	9,811.90	29.84	171.86	174.54	55.55	1,182.04	2,530.06	2,433.18	96.89	26.114	
8,000.00	7,493.08	19,907.00	9,811.90	30.11	171.86	174.41	55.55	1,182.04	2,557.07	2,460.62	96.45	26.513	
8,100.00	7,499.70	19,907.00	9,811.90	30.38	171.86	174.20	55.55	1,182.04	2,595.74	2,499.79	95.95	27.054	
8,125.95	7,499.99	19,907.00	9,811.90	30.45	171.86	174.13	55.55	1,182.04	2,607.59	2,511.78	95.81	27.216	
8,200.00	7,499.99	19,907.00	9,811.90	30.65	171.86	174.13	55.55	1,182.04	2,643.23	2,547.84	95.40	27.708	
8,300.00	7,499.99	19,907.00	9,811.90	30.94	171.86	174.13	55.55	1,182.04	2,693.85	2,599.05	94.81	28.414	
8,400.00	7,499.99	19,907.00	9,811.90	31.24	171.86	174.13	55.55	1,182.04	2,747.19	2,652.99	94.19	29.165	
8,500.00	7,499.99	19,907.00	9,811.90	31.56	171.86	174.13	55.55	1,182.04	2,803.07	2,709.51	93.56	29.960	
8,600.00	7,500.00	19,907.00	9,811.90	31.88	171.86	174.13	55.55	1,182.04	2,861.36	2,768.45	92.91	30.797	
8,700.00	7,500.00	19,907.00	9,811.90	32.22	171.86	174.13	55.55	1,182.04	2,921.91	2,829.66	92.25	31.674	
8,800.00	7,500.00	19,907.00	9,811.90	32.58	171.86	174.13	55.55	1,182.04	2,984.58	2,893.00	91.59	32.588	
8,900.00	7,500.00	19,907.00	9,811.90	32.94	171.86	174.13	55.55	1,182.04	3,049.25	2,958.33	90.92	33.538	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 156-MWD OWSG Rev5 **Offset Well Error:** 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	19,907.00	9,811.90	33.32	171.86	174.13	55.55	1,182.04	3,115.78	3,025.53	90.25	34.522	
9,100.00	7,500.00	19,907.00	9,811.90	33.71	171.86	174.13	55.55	1,182.04	3,184.07	3,094.47	89.60	35.538	
9,200.00	7,500.00	19,907.00	9,811.90	34.11	171.86	174.13	55.55	1,182.04	3,253.99	3,165.04	88.95	36.584	
9,300.00	7,500.00	19,907.00	9,811.90	34.52	171.86	174.13	55.55	1,182.04	3,325.45	3,237.15	88.31	37.658	
9,400.00	7,500.00	19,907.00	9,811.90	34.94	171.86	174.13	55.55	1,182.04	3,398.35	3,310.67	87.68	38.758	
9,500.00	7,500.00	19,907.00	9,811.90	35.37	171.86	174.13	55.55	1,182.04	3,472.61	3,385.54	87.07	39.884	
9,600.00	7,500.00	19,907.00	9,811.90	35.81	171.86	174.13	55.55	1,182.04	3,548.12	3,461.65	86.47	41.032	
9,700.00	7,500.00	19,907.00	9,811.90	36.26	171.86	174.13	55.55	1,182.04	3,624.82	3,538.93	85.89	42.202	
9,800.00	7,500.00	19,907.00	9,811.90	36.73	171.86	174.13	55.55	1,182.04	3,702.64	3,617.31	85.33	43.392	
9,900.00	7,500.00	19,907.00	9,811.90	37.20	171.86	174.13	55.55	1,182.04	3,781.49	3,696.71	84.79	44.600	
10,000.00	7,500.00	19,907.00	9,811.90	37.68	171.86	174.13	55.55	1,182.04	3,861.33	3,777.07	84.26	45.826	
10,100.00	7,500.00	19,907.00	9,811.90	38.17	171.86	174.13	55.55	1,182.04	3,942.09	3,858.33	83.75	47.068	
10,200.00	7,500.00	19,907.00	9,811.90	38.66	171.86	174.13	55.55	1,182.04	4,023.71	3,940.44	83.26	48.325	
10,300.00	7,500.00	19,907.00	9,811.90	39.17	171.86	174.13	55.55	1,182.04	4,106.14	4,023.35	82.79	49.595	
10,400.00	7,500.00	19,907.00	9,811.90	39.68	171.86	174.13	55.55	1,182.04	4,189.34	4,107.00	82.34	50.878	
10,500.00	7,500.00	19,907.00	9,811.90	40.20	171.86	174.13	55.55	1,182.04	4,273.26	4,191.36	81.91	52.172	
10,600.00	7,500.00	19,907.00	9,811.90	40.73	171.86	174.13	55.55	1,182.04	4,357.86	4,276.37	81.49	53.477	
10,700.00	7,500.00	19,907.00	9,811.90	41.26	171.86	174.13	55.55	1,182.04	4,443.10	4,362.01	81.09	54.792	
10,800.00	7,500.00	19,907.00	9,811.90	41.80	171.86	174.13	55.55	1,182.04	4,528.94	4,448.23	80.71	56.115	
10,900.00	7,500.00	19,907.00	9,811.90	42.35	171.86	174.13	55.55	1,182.04	4,615.35	4,535.01	80.34	57.447	
11,000.00	7,500.00	19,907.00	9,811.90	42.91	171.86	174.13	55.55	1,182.04	4,702.30	4,622.31	79.99	58.786	
11,100.00	7,500.00	19,907.00	9,811.90	43.47	171.86	174.13	55.55	1,182.04	4,789.76	4,710.11	79.66	60.131	
11,200.00	7,500.00	19,907.00	9,811.90	44.03	171.86	174.13	55.55	1,182.04	4,877.71	4,798.37	79.34	61.482	
11,300.00	7,500.00	19,907.00	9,811.90	44.61	171.86	174.13	55.55	1,182.04	4,966.10	4,887.07	79.03	62.838	
11,400.00	7,500.00	19,907.00	9,811.90	45.18	171.86	174.13	55.55	1,182.04	5,054.94	4,976.20	78.74	64.199	
11,500.00	7,500.00	19,907.00	9,811.90	45.77	171.86	174.13	55.55	1,182.04	5,144.18	5,065.71	78.46	65.563	
11,581.32	7,500.00	19,907.00	9,811.90	46.24	171.86	174.13	55.55	1,182.04	5,217.03	5,138.79	78.24	66.676	
11,600.00	7,500.00	19,907.00	9,811.90	46.35	171.86	176.78	55.55	1,182.04	5,233.81	5,155.62	78.20	66.930	
11,650.00	7,500.00	19,907.00	9,811.90	46.65	171.86	-176.05	55.55	1,182.04	5,278.82	5,200.72	78.10	67.589	
11,700.00	7,500.00	19,907.00	9,811.90	46.96	171.86	-168.94	55.55	1,182.04	5,323.82	5,245.78	78.04	68.217	
11,750.00	7,500.00	19,907.00	9,811.90	47.27	171.86	-162.12	55.55	1,182.04	5,368.66	5,290.63	78.02	68.809	
11,800.00	7,500.00	19,907.00	9,811.90	47.59	171.86	-155.78	55.55	1,182.04	5,413.17	5,335.13	78.04	69.360	
11,850.00	7,500.00	19,907.00	9,811.90	47.91	171.86	-150.03	55.55	1,182.04	5,457.21	5,379.10	78.11	69.867	
11,900.00	7,500.00	19,907.00	9,811.90	48.23	171.86	-144.91	55.55	1,182.04	5,500.62	5,422.40	78.22	70.325	
11,950.00	7,500.00	19,907.00	9,811.90	48.56	171.86	-140.39	55.55	1,182.04	5,543.26	5,464.89	78.37	70.730	
12,000.00	7,500.00	19,907.00	9,811.90	48.88	171.86	-136.45	55.55	1,182.04	5,585.00	5,506.43	78.57	71.079	
12,050.00	7,500.00	19,907.00	9,811.90	49.20	171.86	-133.03	55.55	1,182.04	5,625.70	5,546.87	78.83	71.368	
12,100.00	7,500.00	19,907.00	9,811.90	49.52	171.86	-130.05	55.55	1,182.04	5,665.24	5,586.11	79.13	71.593	
12,150.00	7,500.00	19,907.00	9,811.90	49.83	171.86	-127.46	55.55	1,182.04	5,703.49	5,624.00	79.49	71.753	
12,200.00	7,500.00	19,907.00	9,811.90	50.14	171.86	-125.22	55.55	1,182.04	5,740.35	5,660.45	79.90	71.846	
12,250.00	7,500.00	19,907.00	9,811.90	50.44	171.86	-123.26	55.55	1,182.04	5,775.70	5,695.34	80.36	71.870	
12,300.00	7,500.00	19,907.00	9,811.90	50.74	171.86	-121.56	55.55	1,182.04	5,809.45	5,728.56	80.88	71.824	
12,350.00	7,500.00	19,907.00	9,811.90	51.02	171.86	-120.07	55.55	1,182.04	5,841.49	5,760.03	81.46	71.710	
12,400.00	7,500.00	19,907.00	9,811.90	51.30	171.86	-118.77	55.55	1,182.04	5,871.75	5,789.65	82.09	71.527	
12,450.00	7,500.00	19,907.00	9,811.90	51.56	171.86	-117.64	55.55	1,182.04	5,900.13	5,817.35	82.78	71.276	
12,500.00	7,500.00	19,907.00	9,811.90	51.81	171.86	-116.65	55.55	1,182.04	5,926.56	5,843.04	83.52	70.961	
12,550.00	7,500.00	19,907.00	9,811.90	52.05	171.86	-115.79	55.55	1,182.04	5,950.97	5,866.66	84.31	70.584	
12,600.00	7,500.00	19,907.00	9,811.90	52.27	171.86	-115.05	55.55	1,182.04	5,973.30	5,888.15	85.15	70.147	
12,650.00	7,500.00	19,907.00	9,811.90	52.48	171.86	-114.41	55.55	1,182.04	5,993.49	5,907.44	86.05	69.654	
12,700.00	7,500.00	19,907.00	9,811.90	52.67	171.86	-113.86	55.55	1,182.04	6,011.48	5,924.49	86.99	69.109	
12,750.00	7,500.00	19,907.00	9,811.90	52.84	171.86	-113.40	55.55	1,182.04	6,027.22	5,939.26	87.97	68.517	
12,800.00	7,500.00	19,907.00	9,811.90	53.00	171.86	-113.01	55.55	1,182.04	6,040.69	5,951.70	88.99	67.881	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 156-MWD OWSG Rev5

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,850.00	7,500.00	19,907.00	9,811.90	53.14	171.86	-112.70	55.55	1,182.04	6,051.84	5,961.79	90.05	67.206	
12,900.00	7,500.00	19,907.00	9,811.90	53.27	171.86	-112.47	55.55	1,182.04	6,060.65	5,969.50	91.14	66.497	
12,950.00	7,500.00	19,907.00	9,811.90	53.37	171.86	-112.29	55.55	1,182.04	6,067.09	5,974.82	92.27	65.757	
13,000.00	7,500.00	19,907.00	9,811.90	53.46	171.86	-112.19	55.55	1,182.04	6,071.14	5,977.73	93.41	64.991	
13,050.00	7,500.00	19,907.00	9,811.90	53.53	171.86	-112.14	55.55	1,182.04	6,072.81	5,978.22	94.59	64.204	
13,100.00	7,500.00	19,907.00	9,811.90	53.58	171.86	-112.16	55.55	1,182.04	6,072.08	5,976.30	95.77	63.399	
13,150.00	7,500.00	19,907.00	9,811.90	53.62	171.86	-112.24	55.55	1,182.04	6,068.95	5,971.97	96.98	62.581	
13,200.00	7,500.00	19,907.00	9,811.90	53.63	171.86	-112.39	55.55	1,182.04	6,063.44	5,965.25	98.19	61.752	
13,250.00	7,500.00	19,907.00	9,811.90	53.63	171.86	-112.60	55.55	1,182.04	6,055.55	5,956.14	99.41	60.916	
13,300.00	7,500.00	19,907.00	9,811.90	53.62	171.86	-112.88	55.55	1,182.04	6,045.31	5,944.69	100.63	60.077	
13,350.00	7,500.00	19,907.00	9,811.90	53.58	171.86	-113.24	55.55	1,182.04	6,032.75	5,930.90	101.84	59.237	
13,400.00	7,500.00	19,907.00	9,811.90	53.54	171.86	-113.67	55.55	1,182.04	6,017.88	5,914.83	103.05	58.398	
13,450.00	7,500.00	19,907.00	9,811.90	53.48	171.86	-114.18	55.55	1,182.04	6,000.76	5,896.52	104.25	57.564	
13,500.00	7,500.00	19,907.00	9,811.90	53.40	171.86	-114.79	55.55	1,182.04	5,981.43	5,876.00	105.43	56.735	
13,550.00	7,500.00	19,907.00	9,811.90	53.32	171.86	-115.49	55.55	1,182.04	5,959.93	5,853.34	106.59	55.915	
13,600.00	7,500.00	19,907.00	9,811.90	53.22	171.86	-116.30	55.55	1,182.04	5,936.32	5,828.59	107.73	55.105	
13,650.00	7,500.00	19,907.00	9,811.90	53.12	171.86	-117.24	55.55	1,182.04	5,910.67	5,801.83	108.84	54.307	
13,700.00	7,500.00	19,907.00	9,811.90	53.00	171.86	-118.31	55.55	1,182.04	5,883.03	5,773.11	109.92	53.521	
13,750.00	7,500.00	19,907.00	9,811.90	52.88	171.86	-119.54	55.55	1,182.04	5,853.50	5,742.53	110.97	52.749	
13,800.00	7,500.00	19,907.00	9,811.90	52.75	171.86	-120.95	55.55	1,182.04	5,822.14	5,710.16	111.98	51.993	
13,850.00	7,500.00	19,907.00	9,811.90	52.61	171.86	-122.57	55.55	1,182.04	5,789.05	5,676.10	112.95	51.253	
13,900.00	7,500.00	19,907.00	9,811.90	52.48	171.86	-124.42	55.55	1,182.04	5,754.31	5,640.43	113.88	50.530	
13,950.00	7,500.00	19,907.00	9,811.90	52.33	171.86	-126.55	55.55	1,182.04	5,718.02	5,603.26	114.76	49.826	
14,000.00	7,500.00	19,907.00	9,811.90	52.19	171.86	-129.00	55.55	1,182.04	5,680.30	5,564.71	115.59	49.140	
14,050.00	7,500.00	19,907.00	9,811.90	52.05	171.86	-131.82	55.55	1,182.04	5,641.25	5,524.88	116.38	48.474	
14,100.00	7,500.00	19,907.00	9,811.90	51.90	171.86	-135.06	55.55	1,182.04	5,600.99	5,483.89	117.11	47.828	
14,105.32	7,500.00	19,907.00	9,811.90	51.89	171.86	-135.43	55.55	1,182.04	5,596.64	5,479.46	117.18	47.761	
14,200.00	7,500.00	19,907.00	9,811.90	51.63	171.86	-137.42	55.55	1,182.04	5,518.76	5,400.28	118.48	46.580	
14,300.00	7,500.00	19,907.00	9,811.90	51.35	171.86	-139.65	55.55	1,182.04	5,435.77	5,315.95	119.82	45.367	
14,333.98	7,500.00	19,907.00	9,811.90	51.26	171.86	-140.44	55.55	1,182.04	5,407.41	5,287.14	120.26	44.963	
14,400.00	7,500.00	19,907.00	9,811.90	51.09	171.86	-140.44	55.55	1,182.04	5,352.35	5,231.22	121.14	44.185	
14,500.00	7,500.00	19,907.00	9,811.90	50.84	171.86	-140.44	55.55	1,182.04	5,269.44	5,146.95	122.49	43.019	
14,600.00	7,500.00	19,907.00	9,811.90	50.59	171.86	-140.44	55.55	1,182.04	5,187.13	5,063.24	123.89	41.868	
14,700.00	7,500.00	19,907.00	9,811.90	50.35	171.86	-140.44	55.55	1,182.04	5,105.45	4,980.12	125.34	40.733	
14,800.00	7,500.00	19,907.00	9,811.90	50.12	171.86	-140.44	55.55	1,182.04	5,024.44	4,897.61	126.83	39.615	
14,900.00	7,500.00	19,907.00	9,811.90	49.90	171.86	-140.44	55.55	1,182.04	4,944.12	4,815.75	128.37	38.514	
15,000.00	7,500.00	19,907.00	9,811.90	49.69	171.86	-140.44	55.55	1,182.04	4,864.53	4,734.57	129.96	37.431	
15,100.00	7,500.00	19,907.00	9,811.90	49.48	171.86	-140.44	55.55	1,182.04	4,785.71	4,654.11	131.60	36.366	
15,200.00	7,500.00	19,907.00	9,811.90	49.28	171.86	-140.44	55.55	1,182.04	4,707.69	4,574.40	133.29	35.320	
15,300.00	7,500.00	19,907.00	9,811.90	49.09	171.86	-140.44	55.55	1,182.04	4,630.51	4,495.49	135.03	34.294	
15,400.00	7,500.00	19,907.00	9,811.90	48.91	171.86	-140.44	55.55	1,182.04	4,554.23	4,417.41	136.81	33.288	
15,500.00	7,500.00	19,907.00	9,811.90	48.74	171.86	-140.44	55.55	1,182.04	4,478.88	4,340.22	138.65	32.303	
15,600.00	7,500.00	19,907.00	9,811.90	48.57	171.86	-140.44	55.55	1,182.04	4,404.50	4,263.96	140.54	31.339	
15,700.00	7,500.00	19,907.00	9,811.90	48.42	171.86	-140.44	55.55	1,182.04	4,331.16	4,188.68	142.48	30.398	
15,800.00	7,500.00	19,907.00	9,811.90	48.27	171.86	-140.44	55.55	1,182.04	4,258.91	4,114.44	144.47	29.479	
15,900.00	7,500.00	19,907.00	9,811.90	48.13	171.86	-140.44	55.55	1,182.04	4,187.80	4,041.29	146.51	28.583	
16,000.00	7,500.00	19,907.00	9,811.90	48.01	171.86	-140.44	55.55	1,182.04	4,117.89	3,969.29	148.60	27.711	
16,100.00	7,500.00	19,907.00	9,811.90	47.89	171.86	-140.44	55.55	1,182.04	4,049.24	3,898.51	150.73	26.864	
16,200.00	7,500.00	19,907.00	9,811.90	47.78	171.86	-140.44	55.55	1,182.04	3,981.92	3,829.01	152.91	26.042	
16,300.00	7,500.00	19,907.00	9,811.90	47.68	171.86	-140.44	55.55	1,182.04	3,915.99	3,760.87	155.12	25.245	
16,400.00	7,500.00	19,907.00	9,811.90	47.59	171.86	-140.44	55.55	1,182.04	3,851.53	3,694.16	157.37	24.474	
16,500.00	7,500.00	19,907.00	9,811.90	47.51	171.86	-140.44	55.55	1,182.04	3,788.62	3,628.96	159.66	23.729	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 156-MWD OWSG Rev5 **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	7,500.00	19,907.00	9,811.90	47.44	171.86	-140.44	55.55	1,182.04	3,727.33	3,565.35	161.98	23.012	
16,700.00	7,500.00	19,907.00	9,811.90	47.39	171.86	-140.44	55.55	1,182.04	3,667.74	3,503.42	164.32	22.321	
16,800.00	7,500.00	19,907.00	9,811.90	47.34	171.86	-140.44	55.55	1,182.04	3,609.94	3,443.27	166.67	21.659	
16,900.00	7,500.00	19,907.00	9,811.90	47.31	171.86	-140.44	55.55	1,182.04	3,554.01	3,384.97	169.04	21.025	
17,000.00	7,500.00	19,907.00	9,811.90	47.29	171.86	-140.44	55.55	1,182.04	3,500.04	3,328.64	171.41	20.419	
17,100.00	7,500.00	19,907.00	9,811.90	47.28	171.86	-140.44	55.55	1,182.04	3,448.14	3,274.37	173.77	19.843	
17,200.00	7,500.00	19,907.00	9,811.90	47.28	171.86	-140.44	55.55	1,182.04	3,398.38	3,222.26	176.12	19.296	
17,300.00	7,500.00	19,907.00	9,811.90	47.30	171.86	-140.44	55.55	1,182.04	3,350.87	3,172.43	178.44	18.779	
17,400.00	7,500.00	19,907.00	9,811.90	47.33	171.86	-140.44	55.55	1,182.04	3,305.70	3,124.98	180.72	18.292	
17,500.00	7,500.00	19,907.00	9,811.90	47.37	171.86	-140.44	55.55	1,182.04	3,262.97	3,080.01	182.96	17.835	
17,600.00	7,500.00	19,907.00	9,811.90	47.43	171.86	-140.44	55.55	1,182.04	3,222.78	3,037.65	185.13	17.408	
17,700.00	7,500.00	19,907.00	9,811.90	47.50	171.86	-140.44	55.55	1,182.04	3,185.22	2,998.00	187.23	17.013	
17,800.00	7,500.00	19,907.00	9,811.90	47.59	171.86	-140.44	55.55	1,182.04	3,150.39	2,961.16	189.23	16.648	
17,900.00	7,500.00	19,907.00	9,811.90	47.69	171.86	-140.44	55.55	1,182.04	3,118.38	2,927.24	191.14	16.315	
18,000.00	7,500.00	19,907.00	9,811.90	47.81	171.86	-140.44	55.55	1,182.04	3,089.28	2,896.35	192.92	16.013	
18,100.00	7,500.00	19,907.00	9,811.90	47.94	171.86	-140.44	55.55	1,182.04	3,063.16	2,868.58	194.58	15.742	
18,200.00	7,500.00	19,907.00	9,811.90	48.08	171.86	-140.44	55.55	1,182.04	3,040.12	2,844.02	196.09	15.504	
18,300.00	7,500.00	19,907.00	9,811.90	48.25	171.86	-140.44	55.55	1,182.04	3,020.21	2,822.76	197.44	15.296	
18,400.00	7,500.00	19,907.00	9,811.90	48.42	171.86	-140.44	55.55	1,182.04	3,003.49	2,804.86	198.63	15.121	
18,461.64	7,500.00	19,907.00	9,811.90	48.54	171.86	-140.44	55.55	1,182.04	2,994.81	2,795.54	199.27	15.029	SF
18,462.14	7,500.00	19,907.00	9,811.90	49.47	171.86	-140.44	55.55	1,182.04	2,994.74	2,795.52	199.22	15.032	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	CC, ES
600.00	599.98	599.98	599.98	2.06	2.07	166.20	-0.23	-19.99	21.68	17.56	4.13	5.254	
700.00	699.84	699.84	699.84	2.40	2.43	168.85	-0.23	-19.99	26.79	21.96	4.83	5.547	
750.00	749.68	749.68	749.68	2.58	2.60	170.26	-0.23	-19.99	30.65	25.47	5.18	5.912	
800.00	799.49	799.49	799.49	2.75	2.78	171.47	-0.23	-19.99	34.96	29.42	5.54	6.312	
900.00	899.11	899.11	899.11	3.10	3.14	173.17	-0.23	-19.99	43.59	37.35	6.24	6.982	
1,000.00	998.73	998.73	998.73	3.46	3.50	174.30	-0.23	-19.99	52.26	45.31	6.95	7.517	
1,001.27	1,000.00	1,000.00	1,000.00	3.46	3.50	174.32	-0.23	-19.99	52.37	45.41	6.96	7.523	
1,100.00	1,098.18	1,098.18	1,098.18	3.81	3.85	173.40	-0.23	-19.99	62.59	54.93	7.66	8.167	
1,200.00	1,197.22	1,197.22	1,197.22	4.18	4.21	173.53	-0.23	-19.99	76.35	67.97	8.38	9.111	
1,300.00	1,295.71	1,295.71	1,295.71	4.54	4.56	174.03	-0.23	-19.99	93.54	84.45	9.10	10.284	
1,400.00	1,393.53	1,393.53	1,393.53	4.91	4.91	174.60	-0.23	-19.99	114.15	104.34	9.81	11.634	
1,414.82	1,407.97	1,407.97	1,407.97	4.97	4.96	174.69	-0.23	-19.99	117.50	107.58	9.92	11.843	
1,500.00	1,490.88	1,490.88	1,490.88	5.28	5.26	175.45	-0.23	-19.99	136.95	126.42	10.53	13.011	
1,600.00	1,588.22	1,588.22	1,588.22	5.66	5.61	176.10	-0.23	-19.99	159.80	148.57	11.24	14.221	
1,700.00	1,685.56	1,685.56	1,685.56	6.04	5.96	176.59	-0.23	-19.99	182.68	170.72	11.95	15.285	
1,800.00	1,782.90	1,782.90	1,782.90	6.42	6.31	176.97	-0.23	-19.99	205.56	192.89	12.67	16.227	
1,900.00	1,880.24	1,887.16	1,887.15	6.80	6.67	177.30	-0.57	-18.71	227.22	213.81	13.41	16.942	
2,000.00	1,977.58	1,994.35	1,994.20	7.18	7.04	177.60	-1.90	-13.62	245.31	231.16	14.15	17.336	
2,100.00	2,074.91	2,102.87	2,102.30	7.57	7.41	177.90	-4.29	-4.52	259.70	244.81	14.88	17.449	
2,200.00	2,172.25	2,212.43	2,211.01	7.95	7.78	178.19	-7.76	8.67	270.31	254.70	15.61	17.319	
2,300.00	2,269.59	2,322.72	2,319.83	8.34	8.17	178.50	-12.32	26.01	277.11	260.79	16.32	16.979	
2,400.00	2,366.93	2,433.43	2,428.28	8.73	8.55	178.84	-17.95	47.46	280.06	263.04	17.02	16.455	
2,500.00	2,464.27	2,539.12	2,531.04	9.11	8.93	179.19	-24.23	71.35	279.60	261.87	17.73	15.771	
2,600.00	2,561.61	2,639.10	2,628.12	9.50	9.28	179.54	-30.31	94.48	278.61	260.14	18.47	15.086	
2,700.00	2,658.95	2,739.08	2,725.20	9.89	9.64	179.88	-36.38	117.60	277.63	258.42	19.21	14.452	
2,800.00	2,756.29	2,839.06	2,822.28	10.28	10.01	-179.77	-42.46	140.73	276.66	256.70	19.96	13.863	
2,900.00	2,853.63	2,939.04	2,919.36	10.67	10.37	-179.42	-48.54	163.85	275.70	255.00	20.71	13.315	
3,000.00	2,950.97	3,039.02	3,016.44	11.06	10.74	-179.06	-54.61	186.98	274.75	253.29	21.46	12.804	
3,100.00	3,048.31	3,139.00	3,113.52	11.45	11.11	-178.71	-60.69	210.11	273.81	251.60	22.21	12.327	
3,200.00	3,145.64	3,238.99	3,210.60	11.84	11.48	-178.35	-66.77	233.23	272.89	249.92	22.97	11.881	
3,300.00	3,242.98	3,338.97	3,307.68	12.23	11.85	-177.99	-72.84	256.36	271.97	248.24	23.73	11.462	
3,400.00	3,340.32	3,438.95	3,404.76	12.62	12.23	-177.62	-78.92	279.48	271.06	246.57	24.49	11.069	
3,500.00	3,437.66	3,538.93	3,501.84	13.01	12.60	-177.26	-85.00	302.61	270.17	244.92	25.25	10.700	
3,600.00	3,535.00	3,638.91	3,598.92	13.40	12.98	-176.89	-91.07	325.74	269.28	243.27	26.01	10.352	
3,700.00	3,632.34	3,738.89	3,696.00	13.79	13.36	-176.52	-97.15	348.86	268.41	241.63	26.78	10.023	
3,800.00	3,729.68	3,838.87	3,793.08	14.19	13.74	-176.15	-103.23	371.99	267.55	240.00	27.54	9.713	
3,900.00	3,827.02	3,938.85	3,890.16	14.58	14.12	-175.77	-109.30	395.12	266.70	238.39	28.31	9.420	
4,000.00	3,924.36	4,038.83	3,987.24	14.97	14.50	-175.40	-115.38	418.24	265.86	236.78	29.08	9.142	
4,100.00	4,021.70	4,138.82	4,084.32	15.36	14.88	-175.02	-121.46	441.37	265.03	235.18	29.85	8.879	
4,200.00	4,119.04	4,238.80	4,181.40	15.75	15.26	-174.63	-127.53	464.49	264.22	233.60	30.62	8.629	
4,300.00	4,216.37	4,338.78	4,278.48	16.15	15.65	-174.25	-133.61	487.62	263.41	232.02	31.39	8.392	
4,400.00	4,313.71	4,438.76	4,375.56	16.54	16.03	-173.86	-139.69	510.75	262.62	230.46	32.16	8.166	
4,500.00	4,411.05	4,538.74	4,472.64	16.93	16.41	-173.47	-145.76	533.87	261.84	228.91	32.93	7.951	
4,600.00	4,508.39	4,638.72	4,569.71	17.32	16.80	-173.08	-151.84	557.00	261.07	227.37	33.70	7.746	
4,700.00	4,605.73	4,738.70	4,666.79	17.72	17.19	-172.69	-157.92	580.12	260.32	225.84	34.48	7.550	
4,800.00	4,703.07	4,838.68	4,763.87	18.11	17.57	-172.29	-163.99	603.25	259.58	224.33	35.25	7.364	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	4,938.66	4,860.95	18.50	17.96	-171.89	-170.07	626.38	258.85	222.82	36.02	7.185	
5,000.00	4,897.75	5,038.64	4,958.03	18.90	18.35	-171.49	-176.15	649.50	258.13	221.33	36.80	7.015	
5,100.00	4,995.09	5,138.63	5,055.11	19.29	18.73	-171.09	-182.22	672.63	257.42	219.85	37.57	6.851	
5,200.00	5,092.43	5,238.61	5,152.19	19.68	19.12	-170.68	-188.30	695.76	256.73	218.38	38.35	6.695	
5,300.00	5,189.77	5,338.59	5,249.27	20.07	19.51	-170.28	-194.38	718.88	256.05	216.93	39.12	6.545	
5,400.00	5,287.10	5,438.57	5,346.35	20.47	19.90	-169.87	-200.45	742.01	255.39	215.49	39.90	6.401	
5,500.00	5,384.44	5,538.55	5,443.43	20.86	20.29	-169.45	-206.53	765.13	254.73	214.06	40.67	6.263	
5,600.00	5,481.78	5,638.53	5,540.51	21.25	20.68	-169.04	-212.61	788.26	254.09	212.64	41.45	6.130	
5,700.00	5,579.12	5,738.51	5,637.59	21.65	21.07	-168.63	-218.68	811.39	253.47	211.24	42.23	6.003	
5,800.00	5,676.46	5,838.49	5,734.67	22.04	21.45	-168.21	-224.76	834.51	252.85	209.85	43.00	5.880	
5,900.00	5,773.80	5,938.47	5,831.75	22.43	21.84	-167.79	-230.84	857.64	252.25	208.47	43.78	5.762	
6,000.00	5,871.14	6,038.46	5,928.83	22.83	22.24	-167.37	-236.91	880.76	251.67	207.11	44.56	5.648	
6,100.00	5,968.48	6,138.44	6,025.91	23.22	22.63	-166.94	-242.99	903.89	251.09	205.76	45.33	5.539	
6,200.00	6,065.82	6,238.42	6,122.99	23.61	23.02	-166.52	-249.07	927.02	250.54	204.43	46.11	5.434	
6,300.00	6,163.16	6,338.40	6,220.07	24.01	23.41	-166.09	-255.14	950.14	249.99	203.10	46.89	5.332	
6,400.00	6,260.50	6,438.38	6,317.15	24.40	23.80	-165.66	-261.22	973.27	249.46	201.80	47.66	5.234	
6,500.00	6,357.83	6,538.36	6,414.23	24.79	24.19	-165.23	-267.30	996.39	248.94	200.50	48.44	5.139	
6,600.00	6,455.17	6,638.34	6,511.31	25.19	24.58	-164.80	-273.37	1,019.52	248.44	199.22	49.22	5.048	
6,700.00	6,552.51	6,738.32	6,608.39	25.58	24.97	-164.36	-279.45	1,042.65	247.95	197.96	49.99	4.960	
6,800.00	6,649.85	6,838.30	6,705.47	25.98	25.37	-163.93	-285.53	1,065.77	247.48	196.71	50.77	4.874	
6,900.00	6,747.19	6,938.29	6,802.55	26.37	25.76	-163.49	-291.60	1,088.90	247.02	195.47	51.55	4.792	
7,000.00	6,844.53	7,038.27	6,899.63	26.76	26.15	-163.05	-297.68	1,112.03	246.57	194.25	52.33	4.712	
7,100.00	6,941.87	7,138.25	6,996.71	27.16	26.54	-162.61	-303.76	1,135.15	246.14	193.04	53.10	4.635	
7,115.01	6,956.48	7,153.25	7,011.28	27.22	26.60	-162.54	-304.67	1,138.62	246.08	192.86	53.22	4.624	
7,119.49	6,960.84	7,157.73	7,015.62	27.23	26.62	-164.33	-304.94	1,139.66	246.07	192.81	53.26	4.621	
7,150.00	6,990.45	7,188.20	7,045.21	27.35	26.74	-175.38	-306.79	1,146.71	246.51	193.02	53.49	4.608	SF
7,200.00	7,038.53	7,237.83	7,093.40	27.55	26.93	171.36	-309.81	1,158.19	249.21	195.33	53.88	4.625	
7,250.00	7,085.72	7,286.76	7,140.91	27.75	27.13	163.22	-312.78	1,169.50	254.54	200.28	54.26	4.691	
7,300.00	7,131.67	7,334.61	7,187.37	27.94	27.31	158.52	-315.69	1,180.57	262.80	208.17	54.63	4.811	
7,350.00	7,176.02	7,381.02	7,232.43	28.13	27.50	156.00	-318.51	1,191.31	274.32	219.33	54.99	4.988	
7,400.00	7,218.44	7,425.63	7,275.75	28.32	27.67	154.77	-321.23	1,201.63	289.41	234.07	55.35	5.229	
7,450.00	7,258.60	7,468.12	7,317.00	28.50	27.84	154.24	-323.81	1,211.45	308.29	252.61	55.69	5.536	
7,500.00	7,296.21	7,508.14	7,355.87	28.67	28.00	154.01	-326.24	1,220.71	331.07	275.06	56.01	5.911	
7,550.00	7,330.97	7,545.41	7,392.05	28.84	28.14	153.79	-328.50	1,229.33	357.71	301.40	56.31	6.352	
7,600.00	7,362.62	7,579.63	7,425.28	28.99	28.28	153.37	-330.58	1,237.25	388.08	331.49	56.59	6.858	
7,650.00	7,390.91	7,610.55	7,455.30	29.15	28.40	152.55	-332.46	1,244.40	421.93	365.10	56.83	7.424	
7,700.00	7,415.64	7,637.93	7,481.89	29.30	28.51	151.14	-334.13	1,250.73	458.96	401.92	57.05	8.045	
7,750.00	7,436.62	7,661.55	7,504.83	29.44	28.60	148.89	-335.56	1,256.20	498.82	441.59	57.23	8.716	
7,800.00	7,453.68	7,681.25	7,523.96	29.57	28.68	145.45	-336.76	1,260.75	541.10	483.72	57.38	9.431	
7,825.96	7,460.95	7,689.88	7,532.33	29.64	28.71	143.04	-337.29	1,262.75	563.87	506.43	57.44	9.817	
7,900.00	7,477.79	7,710.69	7,552.53	29.84	28.79	141.76	-338.55	1,267.56	630.89	573.31	57.58	10.956	
8,000.00	7,493.08	7,731.64	7,572.88	30.11	28.87	136.89	-339.82	1,272.41	724.84	667.12	57.72	12.558	
8,100.00	7,499.70	8,992.70	8,289.00	30.38	32.68	179.19	-1,144.30	1,411.46	789.38	757.23	32.15	24.557	
8,125.95	7,499.99	9,018.65	8,289.00	30.45	32.74	179.19	-1,170.25	1,411.57	789.08	756.74	32.34	24.397	
8,125.95	7,499.99	9,018.65	8,289.00	30.45	32.74	179.19	-1,170.25	1,411.57	789.08	756.74	32.34	24.397	
8,200.00	7,499.99	9,092.70	8,289.00	30.65	32.92	179.18	-1,244.30	1,411.90	789.08	756.16	32.92	23.968	
8,300.00	7,499.99	9,192.70	8,289.00	30.94	33.18	179.18	-1,344.30	1,412.34	789.08	755.33	33.75	23.378	
8,400.00	7,499.99	9,292.70	8,289.00	31.24	33.46	179.18	-1,444.30	1,412.79	789.08	754.45	34.64	22.782	
8,500.00	7,499.99	9,392.70	8,289.00	31.56	33.75	179.18	-1,544.30	1,413.23	789.08	753.52	35.57	22.185	
8,600.00	7,500.00	9,492.70	8,289.00	31.88	34.04	179.18	-1,644.29	1,413.67	789.08	752.54	36.54	21.594	
8,700.00	7,500.00	9,592.70	8,289.00	32.22	34.36	179.18	-1,744.29	1,414.11	789.08	751.53	37.56	21.010	
8,800.00	7,500.00	9,692.70	8,289.00	32.58	34.68	179.18	-1,844.29	1,414.56	789.08	750.48	38.61	20.438	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,500.00	9,792.70	8,289.00	32.94	35.02	179.18	-1,944.29	1,415.00	789.09	749.39	39.70	19.879	
9,000.00	7,500.00	9,892.70	8,289.00	33.32	35.37	179.18	-2,044.29	1,415.44	789.09	748.27	40.81	19.334	
9,100.00	7,500.00	9,992.70	8,289.00	33.71	35.73	179.18	-2,144.29	1,415.89	789.09	747.13	41.96	18.806	
9,200.00	7,500.00	10,092.70	8,289.00	34.11	36.10	179.17	-2,244.29	1,416.33	789.09	745.95	43.13	18.294	
9,300.00	7,500.00	10,192.70	8,289.00	34.52	36.48	179.17	-2,344.29	1,416.77	789.09	744.75	44.33	17.800	
9,400.00	7,500.00	10,292.70	8,289.00	34.94	36.87	179.17	-2,444.29	1,417.22	789.09	743.53	45.55	17.323	
9,500.00	7,500.00	10,392.70	8,289.00	35.37	37.28	179.17	-2,544.29	1,417.66	789.09	742.29	46.79	16.863	
9,600.00	7,500.00	10,492.70	8,289.00	35.81	37.69	179.17	-2,644.28	1,418.10	789.09	741.03	48.05	16.421	
9,700.00	7,500.00	10,592.70	8,289.00	36.26	38.11	179.17	-2,744.28	1,418.55	789.09	739.75	49.33	15.995	
9,800.00	7,500.00	10,692.70	8,289.00	36.73	38.55	179.17	-2,844.28	1,418.99	789.09	738.46	50.63	15.586	
9,900.00	7,500.00	10,792.70	8,289.00	37.20	38.99	179.17	-2,944.28	1,419.43	789.09	737.15	51.94	15.193	
10,000.00	7,500.00	10,892.70	8,289.00	37.68	39.45	179.17	-3,044.28	1,419.87	789.09	735.82	53.26	14.815	
10,100.00	7,500.00	10,992.70	8,289.00	38.17	39.91	179.16	-3,144.28	1,420.32	789.09	734.49	54.60	14.452	
10,200.00	7,500.00	11,092.70	8,289.00	38.66	40.38	179.16	-3,244.28	1,420.76	789.09	733.14	55.95	14.104	
10,300.00	7,500.00	11,192.70	8,289.00	39.17	40.86	179.16	-3,344.28	1,421.20	789.09	731.78	57.31	13.769	
10,400.00	7,500.00	11,292.70	8,289.00	39.68	41.34	179.16	-3,444.28	1,421.65	789.09	730.41	58.68	13.448	
10,500.00	7,500.00	11,392.70	8,289.00	40.20	41.84	179.16	-3,544.28	1,422.09	789.09	729.03	60.06	13.138	
10,600.00	7,500.00	11,492.70	8,289.00	40.73	42.34	179.16	-3,644.28	1,422.53	789.09	727.64	61.45	12.841	
10,700.00	7,500.00	11,592.70	8,289.00	41.26	42.85	179.16	-3,744.27	1,422.98	789.09	726.24	62.85	12.556	
10,800.00	7,500.00	11,692.70	8,289.00	41.80	43.37	179.16	-3,844.27	1,423.42	789.09	724.83	64.25	12.281	
10,900.00	7,500.00	11,792.70	8,289.00	42.35	43.89	179.16	-3,944.27	1,423.86	789.09	723.42	65.67	12.016	
11,000.00	7,500.00	11,892.70	8,289.00	42.91	44.42	179.16	-4,044.27	1,424.30	789.09	722.00	67.09	11.762	
11,100.00	7,500.00	11,992.70	8,289.00	43.47	44.96	179.15	-4,144.27	1,424.75	789.09	720.57	68.51	11.517	
11,200.00	7,500.00	12,092.70	8,289.00	44.03	45.51	179.15	-4,244.27	1,425.19	789.09	719.14	69.95	11.281	
11,300.00	7,500.00	12,192.70	8,289.00	44.61	46.06	179.15	-4,344.27	1,425.63	789.09	717.70	71.39	11.054	
11,400.00	7,500.00	12,292.70	8,289.00	45.18	46.61	179.15	-4,444.27	1,426.08	789.09	716.26	72.83	10.835	
11,500.00	7,500.00	12,392.70	8,289.00	45.77	47.17	179.15	-4,544.27	1,426.52	789.09	714.81	74.28	10.623	
11,581.32	7,500.00	12,474.01	8,289.00	46.24	47.63	179.15	-4,625.58	1,426.88	789.09	713.62	75.46	10.457	
11,600.00	7,500.00	12,492.70	8,289.00	46.35	47.74	179.13	-4,644.26	1,426.96	789.09	713.35	75.74	10.418	
11,650.00	7,500.00	12,542.62	8,289.00	46.65	48.03	178.94	-4,694.18	1,427.18	789.13	712.58	76.56	10.308	
11,700.00	7,500.00	12,592.29	8,289.00	46.96	48.31	178.54	-4,743.85	1,427.40	789.26	711.79	77.47	10.188	
11,750.00	7,500.00	12,641.52	8,289.00	47.27	48.59	177.94	-4,793.09	1,427.62	789.53	711.04	78.49	10.059	
11,800.00	7,500.00	12,690.26	8,289.00	47.59	48.87	177.16	-4,841.82	1,427.84	790.04	710.44	79.60	9.925	
11,850.00	7,500.00	12,742.75	8,289.00	47.91	49.18	176.27	-4,894.23	1,430.49	790.77	710.05	80.73	9.796	
11,900.00	7,500.00	12,796.71	8,289.00	48.23	49.51	175.46	-4,947.66	1,437.91	791.59	709.81	81.78	9.679	
11,950.00	7,500.00	12,852.05	8,289.00	48.56	49.85	174.75	-5,001.55	1,450.40	792.43	709.67	82.76	9.575	
12,000.00	7,500.00	12,908.62	8,289.00	48.88	50.21	174.15	-5,055.24	1,468.18	793.22	709.57	83.65	9.483	
12,050.00	7,500.00	12,966.27	8,289.00	49.20	50.57	173.66	-5,108.00	1,491.35	793.91	709.47	84.44	9.402	
12,100.00	7,500.00	13,024.77	8,289.00	49.52	50.94	173.31	-5,159.06	1,519.85	794.45	709.31	85.14	9.331	
12,150.00	7,500.00	13,083.86	8,289.00	49.83	51.30	173.08	-5,207.61	1,553.49	794.79	709.05	85.74	9.270	
12,200.00	7,500.00	13,143.27	8,289.00	50.14	51.66	173.00	-5,252.91	1,591.89	794.92	708.65	86.27	9.214	
12,250.00	7,500.00	13,202.70	8,289.00	50.44	52.00	173.06	-5,294.26	1,634.55	794.83	708.09	86.74	9.163	
12,300.00	7,500.00	13,261.86	8,289.00	50.74	52.33	173.26	-5,331.09	1,680.82	794.51	707.33	87.18	9.113	
12,350.00	7,500.00	13,320.47	8,289.00	51.02	52.62	173.60	-5,362.98	1,729.97	794.01	706.39	87.62	9.062	
12,400.00	7,500.00	13,378.27	8,289.00	51.30	52.90	174.06	-5,389.65	1,781.22	793.34	705.26	88.08	9.007	
12,450.00	7,500.00	13,435.03	8,289.00	51.56	53.14	174.65	-5,410.99	1,833.79	792.56	703.98	88.58	8.947	
12,500.00	7,500.00	13,490.57	8,289.00	51.81	53.35	175.34	-5,427.05	1,886.94	791.72	702.57	89.15	8.881	
12,550.00	7,500.00	13,544.75	8,289.00	52.05	53.53	176.13	-5,437.98	1,939.99	790.90	701.11	89.79	8.808	
12,600.00	7,500.00	13,597.48	8,289.00	52.27	53.68	177.01	-5,444.04	1,992.36	790.15	699.63	90.52	8.729	
12,650.00	7,500.00	13,648.70	8,289.00	52.48	53.80	177.96	-5,445.57	2,043.53	789.54	698.22	91.32	8.646	
12,700.00	7,500.00	13,698.38	8,289.00	52.67	53.89	178.97	-5,442.93	2,093.13	789.14	696.95	92.19	8.560	
12,748.24	7,500.00	13,744.86	8,289.00	52.84	53.95	-180.00	-5,436.80	2,139.19	789.00	695.90	93.09	8.475	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,750.00	7,500.00	13,746.53	8,289.00	52.84	53.95	-179.96	-5,436.52	2,140.84	789.00	695.87	93.13	8.472	
12,800.00	7,500.00	13,793.17	8,289.00	53.00	53.99	-178.85	-5,426.73	2,186.43	789.18	695.06	94.12	8.385	
12,850.00	7,500.00	13,838.37	8,289.00	53.14	54.01	-177.71	-5,413.94	2,229.77	789.72	694.57	95.15	8.300	
12,900.00	7,500.00	13,882.16	8,289.00	53.27	54.02	-176.53	-5,398.51	2,270.74	790.65	694.44	96.21	8.218	
12,950.00	7,500.00	13,924.63	8,289.00	53.37	54.00	-175.33	-5,380.77	2,309.32	792.02	694.73	97.29	8.141	
13,000.00	7,500.00	13,965.84	8,289.00	53.46	53.97	-174.12	-5,361.02	2,345.48	793.83	695.45	98.38	8.069	
13,050.00	7,500.00	14,005.88	8,289.00	53.53	53.94	-172.89	-5,339.54	2,379.26	796.10	696.62	99.48	8.003	
13,100.00	7,500.00	14,044.81	8,289.00	53.58	53.88	-171.66	-5,316.56	2,410.67	798.82	698.25	100.57	7.943	
13,150.00	7,500.00	14,082.71	8,289.00	53.62	53.82	-170.42	-5,292.30	2,439.79	802.00	700.34	101.66	7.889	
13,200.00	7,500.00	14,119.65	8,289.00	53.63	53.76	-169.19	-5,266.95	2,466.66	805.63	702.89	102.74	7.842	
13,250.00	7,500.00	14,150.00	8,289.00	53.63	53.70	-168.11	-5,244.94	2,487.55	809.70	705.82	103.87	7.795	
13,300.00	7,500.00	14,190.94	8,289.00	53.62	53.61	-166.74	-5,213.65	2,513.94	814.11	709.26	104.85	7.765	
13,350.00	7,500.00	14,225.41	8,289.00	53.58	53.53	-165.53	-5,185.98	2,534.48	818.92	713.04	105.88	7.734	
13,400.00	7,500.00	14,259.18	8,289.00	53.54	53.44	-164.34	-5,157.79	2,553.06	824.07	717.18	106.89	7.710	
13,450.00	7,500.00	14,292.29	8,289.00	53.48	53.35	-163.16	-5,129.18	2,569.73	829.51	721.63	107.88	7.690	
13,500.00	7,500.00	14,324.81	8,289.00	53.40	53.27	-162.01	-5,100.25	2,584.56	835.21	726.37	108.84	7.674	
13,550.00	7,500.00	14,350.00	8,289.00	53.32	53.20	-161.04	-5,077.31	2,594.97	841.17	731.35	109.83	7.659	
13,600.00	7,500.00	14,388.21	8,289.00	53.22	53.09	-159.79	-5,041.74	2,608.93	847.23	736.56	110.68	7.655	
13,650.00	7,500.00	14,419.19	8,289.00	53.12	53.00	-158.73	-5,012.32	2,618.59	853.47	741.92	111.55	7.651	
13,700.00	7,500.00	14,450.00	8,289.00	53.00	52.91	-157.69	-4,982.60	2,626.70	859.79	747.40	112.38	7.650	
13,750.00	7,500.00	14,479.87	8,289.00	52.88	52.82	-156.70	-4,953.43	2,633.12	866.16	752.97	113.18	7.653	
13,800.00	7,500.00	14,509.64	8,289.00	52.75	52.73	-155.74	-4,924.07	2,638.08	872.53	758.59	113.94	7.658	
13,850.00	7,500.00	14,542.30	8,289.00	52.61	52.63	-154.77	-4,891.65	2,641.95	878.85	764.20	114.64	7.666	
13,900.00	7,500.00	14,582.80	8,289.00	52.48	52.51	-153.79	-4,851.32	2,645.71	884.62	769.32	115.30	7.673	
13,950.00	7,500.00	14,623.51	8,289.00	52.33	52.40	-152.96	-4,810.72	2,648.69	889.63	773.71	115.92	7.675	
14,000.00	7,500.00	14,664.40	8,289.00	52.19	52.28	-152.28	-4,769.90	2,650.87	893.80	777.28	116.52	7.671	
14,050.00	7,500.00	14,705.42	8,289.00	52.05	52.17	-151.75	-4,728.90	2,652.24	897.09	779.99	117.10	7.661	
14,100.00	7,500.00	14,746.54	8,289.00	51.90	52.05	-151.38	-4,687.78	2,652.78	899.45	781.79	117.66	7.645	
14,105.32	7,500.00	14,750.92	8,289.00	51.89	52.04	-151.35	-4,683.41	2,652.79	899.65	781.93	117.72	7.642	
14,200.00	7,500.00	14,843.06	8,289.00	51.63	51.79	-150.98	-4,591.26	2,652.41	902.52	783.74	118.78	7.598	
14,300.00	7,500.00	14,943.01	8,289.00	51.35	51.53	-150.79	-4,491.31	2,651.98	903.94	784.04	119.91	7.539	
14,333.98	7,500.00	14,976.99	8,289.00	51.26	51.44	-150.78	-4,457.33	2,651.83	904.04	783.75	120.29	7.516	
14,400.00	7,500.00	15,043.01	8,289.00	51.09	51.28	-150.78	-4,391.31	2,651.54	904.04	783.00	121.04	7.469	
14,500.00	7,500.00	15,143.01	8,289.00	50.84	51.03	-150.78	-4,291.31	2,651.10	904.04	781.86	122.18	7.399	
14,600.00	7,500.00	15,243.01	8,289.00	50.59	50.80	-150.78	-4,191.31	2,650.66	904.04	780.70	123.34	7.330	
14,700.00	7,500.00	15,343.01	8,289.00	50.35	50.57	-150.78	-4,091.31	2,650.22	904.04	779.54	124.50	7.261	
14,800.00	7,500.00	15,443.01	8,289.00	50.12	50.35	-150.78	-3,991.32	2,649.78	904.03	778.36	125.67	7.194	
14,900.00	7,500.00	15,543.01	8,289.00	49.90	50.14	-150.78	-3,891.32	2,649.34	904.03	777.18	126.85	7.127	
15,000.00	7,500.00	15,643.01	8,289.00	49.69	49.94	-150.78	-3,791.32	2,648.90	904.03	775.99	128.04	7.061	
15,100.00	7,500.00	15,743.01	8,289.00	49.48	49.74	-150.78	-3,691.32	2,648.46	904.03	774.79	129.23	6.995	
15,200.00	7,500.00	15,843.01	8,289.00	49.28	49.56	-150.78	-3,591.32	2,648.03	904.03	773.59	130.44	6.931	
15,300.00	7,500.00	15,943.01	8,289.00	49.09	49.39	-150.78	-3,491.32	2,647.59	904.03	772.38	131.65	6.867	
15,400.00	7,500.00	16,043.01	8,289.00	48.91	49.22	-150.78	-3,391.32	2,647.15	904.02	771.16	132.87	6.804	
15,500.00	7,500.00	16,143.01	8,289.00	48.74	49.07	-150.78	-3,291.32	2,646.71	904.02	769.93	134.09	6.742	
15,600.00	7,500.00	16,243.01	8,289.00	48.57	48.92	-150.78	-3,191.32	2,646.27	904.02	768.70	135.33	6.680	
15,700.00	7,500.00	16,343.01	8,289.00	48.42	48.78	-150.78	-3,091.32	2,645.83	904.02	767.45	136.56	6.620	
15,800.00	7,500.00	16,443.01	8,289.00	48.27	48.66	-150.78	-2,991.32	2,645.39	904.02	766.21	137.81	6.560	
15,900.00	7,500.00	16,543.01	8,289.00	48.13	48.54	-150.78	-2,891.33	2,644.95	904.02	764.95	139.06	6.501	
16,000.00	7,500.00	16,643.01	8,289.00	48.01	48.44	-150.78	-2,791.33	2,644.52	904.01	763.69	140.32	6.442	
16,100.00	7,500.00	16,743.01	8,289.00	47.89	48.34	-150.78	-2,691.33	2,644.08	904.01	762.43	141.59	6.385	
16,200.00	7,500.00	16,843.01	8,289.00	47.78	48.26	-150.78	-2,591.33	2,643.64	904.01	761.16	142.86	6.328	
16,300.00	7,500.00	16,943.01	8,289.00	47.68	48.18	-150.78	-2,491.33	2,643.20	904.01	759.88	144.13	6.272	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,400.00	7,500.00	17,043.01	8,289.00	47.59	48.12	-150.78	-2,391.33	2,642.76	904.01	758.60	145.41	6.217	
16,500.00	7,500.00	17,143.01	8,289.00	47.51	48.07	-150.78	-2,291.33	2,642.32	904.01	757.31	146.70	6.162	
16,600.00	7,500.00	17,243.01	8,289.00	47.44	48.03	-150.78	-2,191.33	2,641.88	904.00	756.01	147.99	6.108	
16,700.00	7,500.00	17,343.01	8,289.00	47.39	48.01	-150.78	-2,091.33	2,641.44	904.00	754.71	149.29	6.055	
16,800.00	7,500.00	17,443.01	8,289.00	47.34	47.99	-150.78	-1,991.33	2,641.01	904.00	753.41	150.59	6.003	
16,900.00	7,500.00	17,543.01	8,289.00	47.31	47.99	-150.78	-1,891.34	2,640.57	904.00	752.10	151.90	5.951	
17,000.00	7,500.00	17,643.01	8,289.00	47.29	48.00	-150.78	-1,791.34	2,640.13	904.00	750.79	153.21	5.900	
17,100.00	7,500.00	17,743.01	8,289.00	47.28	48.02	-150.78	-1,691.34	2,639.69	904.00	749.47	154.53	5.850	
17,200.00	7,500.00	17,843.01	8,289.00	47.28	48.06	-150.78	-1,591.34	2,639.25	903.99	748.14	155.85	5.800	
17,300.00	7,500.00	17,943.01	8,289.00	47.30	48.11	-150.78	-1,491.34	2,638.81	903.99	746.82	157.18	5.751	
17,400.00	7,500.00	18,043.01	8,289.00	47.33	48.17	-150.79	-1,391.34	2,638.37	903.99	745.49	158.51	5.703	
17,500.00	7,500.00	18,143.01	8,289.00	47.37	48.24	-150.79	-1,291.34	2,637.93	903.99	744.15	159.84	5.656	
17,600.00	7,500.00	18,243.01	8,289.00	47.43	48.33	-150.79	-1,191.34	2,637.50	903.99	742.81	161.18	5.609	
17,700.00	7,500.00	18,343.01	8,289.00	47.50	48.44	-150.79	-1,091.34	2,637.06	903.99	741.47	162.52	5.562	
17,800.00	7,500.00	18,443.01	8,289.00	47.59	48.55	-150.79	-991.34	2,636.62	903.98	740.12	163.87	5.517	
17,900.00	7,500.00	18,543.01	8,289.00	47.69	48.68	-150.79	-891.34	2,636.18	903.98	738.77	165.22	5.472	
18,000.00	7,500.00	18,643.01	8,289.00	47.81	48.83	-150.79	-791.35	2,635.74	903.98	737.41	166.57	5.427	
18,100.00	7,500.00	18,743.01	8,289.00	47.94	48.99	-150.79	-691.35	2,635.30	903.98	736.05	167.93	5.383	
18,200.00	7,500.00	18,843.01	8,289.00	48.08	49.16	-150.79	-591.35	2,634.86	903.98	734.69	169.29	5.340	
18,300.00	7,500.00	18,943.01	8,289.00	48.25	49.35	-150.79	-491.35	2,634.42	903.98	733.32	170.65	5.297	
18,400.00	7,500.00	19,043.01	8,289.00	48.42	49.54	-150.79	-391.35	2,633.99	903.97	732.10	171.87	5.260	
18,458.32	7,500.00	19,101.33	8,289.00	48.53	50.05	-150.79	-333.03	2,633.73	903.97	731.50	172.47	5.241	
18,461.64	7,500.00	19,101.33	8,289.00	48.54	50.05	-150.79	-333.03	2,633.73	903.98	731.51	172.47	5.241	
18,462.14	7,500.00	19,101.33	8,289.00	49.47	50.05	-150.79	-333.03	2,633.73	903.98	731.51	172.48	5.241	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	-90.65	-0.91	-79.97	79.98				
100.00	100.00	101.00	101.00	0.28	0.28	-90.65	-0.91	-79.97	79.98	79.42	0.56	143.936	
200.00	200.00	201.00	201.00	0.63	0.64	-90.65	-0.91	-79.97	79.98	78.70	1.27	62.845	
300.00	300.00	301.00	301.00	0.99	1.00	-90.65	-0.91	-79.97	79.98	77.99	1.99	40.198	
400.00	400.00	401.00	401.00	1.35	1.36	-90.65	-0.91	-79.97	79.98	77.27	2.71	29.550	
500.00	500.00	501.00	501.00	1.71	1.71	-90.65	-0.91	-79.97	79.98	76.55	3.42	23.361	CC, ES
600.00	599.98	600.98	600.98	2.06	2.07	165.34	-0.91	-79.97	81.66	77.53	4.13	19.772	
700.00	699.84	700.84	700.84	2.40	2.43	166.19	-0.91	-79.97	86.74	81.90	4.83	17.945	
750.00	749.68	750.68	750.68	2.58	2.61	166.76	-0.91	-79.97	90.55	85.36	5.19	17.453	
800.00	799.49	800.49	800.49	2.75	2.79	167.36	-0.91	-79.97	94.80	89.26	5.54	17.108	
900.00	899.11	900.11	900.11	3.10	3.14	168.42	-0.91	-79.97	103.32	97.07	6.25	16.539	
1,000.00	998.73	999.73	999.73	3.46	3.50	169.32	-0.91	-79.97	111.87	104.92	6.96	16.083	
1,001.27	1,000.00	1,001.00	1,001.00	3.46	3.51	169.33	-0.91	-79.97	111.98	105.02	6.96	16.078	
1,100.00	1,098.18	1,099.18	1,099.18	3.81	3.86	168.26	-0.91	-79.97	122.07	114.40	7.67	15.919	
1,200.00	1,197.22	1,198.22	1,198.22	4.18	4.21	168.31	-0.91	-79.97	135.63	127.25	8.38	16.177	
1,300.00	1,295.71	1,296.71	1,296.71	4.54	4.57	168.87	-0.91	-79.97	152.59	143.49	9.10	16.767	
1,400.00	1,393.53	1,394.53	1,394.53	4.91	4.92	169.64	-0.91	-79.97	172.95	163.13	9.82	17.618	
1,414.82	1,407.97	1,408.97	1,408.97	4.97	4.97	169.76	-0.91	-79.97	176.26	166.33	9.93	17.757	
1,500.00	1,490.88	1,491.88	1,491.88	5.28	5.27	170.78	-0.91	-79.97	195.51	184.98	10.53	18.566	
1,600.00	1,588.22	1,589.22	1,589.22	5.66	5.61	171.74	-0.91	-79.97	218.17	206.93	11.24	19.406	
1,700.00	1,685.56	1,686.56	1,686.56	6.04	5.96	172.52	-0.91	-79.97	240.88	228.93	11.96	20.146	
1,800.00	1,782.90	1,783.90	1,783.90	6.42	6.31	173.17	-0.91	-79.97	263.63	250.96	12.67	20.801	
1,900.00	1,880.24	1,881.24	1,881.24	6.80	6.66	173.72	-0.91	-79.97	286.40	273.01	13.39	21.385	
2,000.00	1,977.58	1,978.58	1,978.58	7.18	7.01	174.18	-0.91	-79.97	309.20	295.09	14.11	21.909	
2,100.00	2,074.91	2,085.82	2,085.81	7.57	7.39	174.61	-1.28	-78.74	330.87	316.00	14.88	22.243	
2,200.00	2,172.25	2,197.40	2,197.25	7.95	7.76	174.96	-2.85	-73.45	348.87	333.23	15.63	22.314	
2,300.00	2,269.59	2,310.42	2,309.81	8.34	8.15	175.24	-5.69	-63.86	363.01	346.62	16.38	22.155	
2,400.00	2,366.93	2,424.55	2,422.99	8.73	8.54	175.48	-9.85	-49.87	373.22	356.10	17.12	21.797	
2,500.00	2,464.27	2,539.43	2,536.25	9.11	8.94	175.68	-15.32	-31.43	379.46	361.61	17.85	21.263	
2,600.00	2,561.61	2,654.72	2,649.03	9.50	9.34	175.85	-22.11	-8.56	381.69	363.14	18.55	20.577	
2,700.00	2,658.95	2,757.52	2,749.01	9.89	9.70	175.98	-28.93	14.40	381.24	361.96	19.28	19.777	
2,800.00	2,756.29	2,857.51	2,846.23	10.28	10.06	176.12	-35.58	36.80	380.72	360.71	20.02	19.021	
2,900.00	2,853.63	2,957.51	2,943.46	10.67	10.41	176.25	-42.23	59.21	380.21	359.45	20.76	18.316	
3,000.00	2,950.97	3,057.50	3,040.68	11.06	10.78	176.38	-48.88	81.61	379.70	358.20	21.50	17.657	
3,100.00	3,048.31	3,157.50	3,137.91	11.45	11.14	176.51	-55.54	104.02	379.19	356.94	22.25	17.040	
3,200.00	3,145.64	3,257.49	3,235.13	11.84	11.50	176.65	-62.19	126.42	378.69	355.68	23.00	16.462	
3,300.00	3,242.98	3,357.49	3,332.36	12.23	11.87	176.78	-68.84	148.82	378.18	354.42	23.76	15.918	
3,400.00	3,340.32	3,457.48	3,429.58	12.62	12.24	176.91	-75.49	171.23	377.68	353.17	24.51	15.407	
3,500.00	3,437.66	3,557.48	3,526.81	13.01	12.61	177.05	-82.14	193.63	377.18	351.91	25.27	14.925	
3,600.00	3,535.00	3,657.47	3,624.03	13.40	12.98	177.18	-88.80	216.04	376.68	350.65	26.03	14.470	
3,700.00	3,632.34	3,757.47	3,721.26	13.79	13.35	177.32	-95.45	238.44	376.19	349.39	26.79	14.041	
3,800.00	3,729.68	3,857.46	3,818.48	14.19	13.73	177.45	-102.10	260.85	375.69	348.14	27.56	13.634	
3,900.00	3,827.02	3,957.46	3,915.71	14.58	14.10	177.59	-108.75	283.25	375.20	346.88	28.32	13.249	
4,000.00	3,924.36	4,057.45	4,012.94	14.97	14.48	177.72	-115.40	305.65	374.71	345.63	29.09	12.883	
4,100.00	4,021.70	4,157.45	4,110.16	15.36	14.86	177.86	-122.06	328.06	374.23	344.37	29.85	12.536	
4,200.00	4,119.04	4,257.44	4,207.39	15.75	15.24	177.99	-128.71	350.46	373.74	343.12	30.62	12.206	
4,300.00	4,216.37	4,357.44	4,304.61	16.15	15.62	178.13	-135.36	372.87	373.26	341.87	31.39	11.892	
4,400.00	4,313.71	4,457.43	4,401.84	16.54	16.00	178.27	-142.01	395.27	372.78	340.62	32.16	11.592	
4,500.00	4,411.05	4,557.43	4,499.06	16.93	16.38	178.41	-148.66	417.67	372.30	339.37	32.93	11.306	
4,600.00	4,508.39	4,657.42	4,596.29	17.32	16.76	178.54	-155.32	440.08	371.82	338.12	33.70	11.033	
4,700.00	4,605.73	4,757.42	4,693.51	17.72	17.14	178.68	-161.97	462.48	371.35	336.88	34.47	10.773	
4,800.00	4,703.07	4,857.41	4,790.74	18.11	17.52	178.82	-168.62	484.89	370.88	335.63	35.24	10.523	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	4,957.41	4,887.96	18.50	17.91	178.96	-175.27	507.29	370.41	334.39	36.02	10.284	
5,000.00	4,897.75	5,057.40	4,985.19	18.90	18.29	179.10	-181.92	529.70	369.94	333.15	36.79	10.055	
5,100.00	4,995.09	5,157.40	5,082.41	19.29	18.67	179.24	-188.58	552.10	369.47	331.91	37.56	9.836	
5,200.00	5,092.43	5,257.39	5,179.64	19.68	19.06	179.38	-195.23	574.50	369.01	330.67	38.34	9.625	
5,300.00	5,189.77	5,357.39	5,276.87	20.07	19.44	179.52	-201.88	596.91	368.55	329.43	39.11	9.422	
5,400.00	5,287.10	5,457.38	5,374.09	20.47	19.83	179.66	-208.53	619.31	368.09	328.20	39.89	9.227	
5,500.00	5,384.44	5,557.38	5,471.32	20.86	20.22	179.80	-215.18	641.72	367.63	326.96	40.67	9.040	
5,600.00	5,481.78	5,657.37	5,568.54	21.25	20.60	179.94	-221.84	664.12	367.18	325.73	41.44	8.860	
5,700.00	5,579.12	5,757.36	5,665.77	21.65	20.99	-179.91	-228.49	686.53	366.72	324.50	42.22	8.686	
5,800.00	5,676.46	5,857.36	5,762.99	22.04	21.38	-179.77	-235.14	708.93	366.27	323.28	43.00	8.519	
5,900.00	5,773.80	5,957.35	5,860.22	22.43	21.76	-179.63	-241.79	731.33	365.83	322.05	43.77	8.357	
6,000.00	5,871.14	6,057.35	5,957.44	22.83	22.15	-179.49	-248.44	753.74	365.38	320.83	44.55	8.201	
6,100.00	5,968.48	6,157.34	6,054.67	23.22	22.54	-179.34	-255.09	776.14	364.94	319.61	45.33	8.051	
6,200.00	6,065.82	6,257.34	6,151.89	23.61	22.93	-179.20	-261.75	798.55	364.50	318.39	46.11	7.905	
6,300.00	6,163.16	6,357.33	6,249.12	24.01	23.31	-179.06	-268.40	820.95	364.06	317.17	46.89	7.765	
6,400.00	6,260.50	6,457.33	6,346.34	24.40	23.70	-178.91	-275.05	843.35	363.62	315.96	47.66	7.629	
6,500.00	6,357.83	6,557.32	6,443.57	24.79	24.09	-178.77	-281.70	865.76	363.19	314.74	48.44	7.497	
6,600.00	6,455.17	6,657.32	6,540.80	25.19	24.48	-178.62	-288.35	888.16	362.76	313.53	49.22	7.370	
6,700.00	6,552.51	6,757.31	6,638.02	25.58	24.87	-178.48	-295.01	910.57	362.33	312.32	50.00	7.246	
6,800.00	6,649.85	6,857.31	6,735.25	25.98	25.26	-178.33	-301.66	932.97	361.90	311.12	50.78	7.127	
6,900.00	6,747.19	6,957.30	6,832.47	26.37	25.65	-178.19	-308.31	955.38	361.47	309.91	51.56	7.011	
7,000.00	6,844.53	7,057.30	6,929.70	26.76	26.04	-178.04	-314.96	977.78	361.05	308.71	52.34	6.898	
7,100.00	6,941.87	7,157.29	7,026.92	27.16	26.43	-177.89	-321.61	1,000.18	360.63	307.51	53.12	6.789	
7,115.01	6,956.48	7,172.30	7,041.52	27.22	26.49	-177.87	-322.61	1,003.55	360.57	307.33	53.24	6.773	
7,123.09	6,964.34	7,180.38	7,049.37	27.25	26.52	178.89	-323.15	1,005.36	360.55	307.25	53.30	6.765	
7,150.00	6,990.45	7,207.26	7,075.51	27.35	26.62	169.16	-324.94	1,011.38	360.74	307.23	53.51	6.742	
7,200.00	7,038.53	7,256.93	7,123.80	27.55	26.82	155.63	-328.24	1,022.51	362.14	308.25	53.89	6.720	SF
7,250.00	7,085.72	7,300.00	7,165.73	27.75	26.99	146.93	-331.04	1,031.94	365.35	311.07	54.27	6.732	
7,300.00	7,131.67	7,343.65	7,208.37	27.94	27.15	141.59	-333.70	1,040.90	371.04	316.41	54.63	6.792	
7,350.00	7,176.02	7,384.72	7,248.61	28.13	27.31	138.29	-336.03	1,048.75	379.54	324.57	54.97	6.905	
7,400.00	7,218.44	7,424.04	7,287.25	28.32	27.46	136.25	-338.11	1,055.75	391.11	335.84	55.28	7.075	
7,450.00	7,258.60	7,461.28	7,323.93	28.50	27.60	134.91	-339.94	1,061.91	406.03	350.46	55.56	7.308	
7,500.00	7,296.21	7,500.00	7,362.15	28.67	27.75	134.20	-341.70	1,067.83	424.47	368.62	55.85	7.600	
7,550.00	7,330.97	7,528.33	7,390.17	28.84	27.85	132.90	-342.89	1,071.85	446.47	390.42	56.05	7.965	
7,600.00	7,362.62	7,557.63	7,419.19	28.99	27.96	131.70	-344.04	1,075.73	472.05	415.79	56.26	8.391	
7,650.00	7,390.91	7,583.82	7,445.16	29.15	28.05	130.11	-345.00	1,078.95	501.04	444.61	56.43	8.879	
7,700.00	7,415.64	7,606.73	7,467.91	29.30	28.14	127.95	-345.78	1,081.59	533.22	476.63	56.58	9.424	
7,750.00	7,436.62	7,626.21	7,487.26	29.44	28.21	125.04	-346.41	1,083.69	568.26	511.56	56.70	10.022	
7,800.00	7,453.68	7,642.15	7,503.12	29.57	28.27	121.20	-346.89	1,085.31	605.82	549.03	56.80	10.667	
7,825.96	7,460.95	7,649.01	7,509.93	29.64	28.29	118.77	-347.09	1,085.99	626.18	569.35	56.83	11.018	
7,900.00	7,477.79	7,665.10	7,525.95	29.84	28.35	116.27	-347.54	1,087.51	686.86	629.95	56.91	12.068	
8,000.00	7,493.08	7,680.29	7,541.07	30.11	28.40	110.47	-347.94	1,088.86	773.65	716.67	56.98	13.577	
8,100.00	7,499.70	7,688.01	7,548.77	30.38	28.43	101.35	-348.14	1,089.52	864.35	807.34	57.01	15.162	
8,125.95	7,499.99	7,688.81	7,549.56	30.45	28.43	98.39	-348.16	1,089.59	888.34	831.33	57.01	15.583	
8,200.00	7,499.99	7,690.37	7,551.11	30.65	28.44	98.65	-348.20	1,089.72	957.38	900.38	57.00	16.795	
8,300.00	7,499.99	7,700.00	7,560.71	30.94	28.47	100.30	-348.43	1,090.50	1,051.74	994.68	57.06	18.431	
8,400.00	7,499.99	7,700.00	7,560.71	31.24	28.47	100.30	-348.43	1,090.50	1,147.01	1,089.96	57.05	20.105	
8,500.00	7,499.99	7,700.00	7,560.71	31.56	28.47	100.30	-348.43	1,090.50	1,243.02	1,185.98	57.04	21.791	
8,600.00	7,500.00	7,700.00	7,560.71	31.88	28.47	100.30	-348.43	1,090.50	1,339.61	1,282.57	57.04	23.486	
8,700.00	7,500.00	7,700.00	7,560.71	32.22	28.47	100.30	-348.43	1,090.50	1,436.67	1,379.63	57.04	25.188	
8,800.00	7,500.00	7,700.00	7,560.71	32.58	28.47	100.30	-348.43	1,090.50	1,534.11	1,477.07	57.04	26.896	
8,900.00	7,500.00	7,700.00	7,560.71	32.94	28.47	100.30	-348.43	1,090.50	1,631.86	1,574.81	57.04	28.607	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	7,700.00	7,560.71	33.32	28.47	100.30	-348.43	1,090.50	1,729.86	1,672.81	57.05	30.320	
9,100.00	7,500.00	7,700.00	7,560.71	33.71	28.47	100.30	-348.43	1,090.50	1,828.08	1,771.02	57.06	32.036	
9,200.00	7,500.00	7,700.00	7,560.71	34.11	28.47	100.30	-348.43	1,090.50	1,926.49	1,869.41	57.07	33.754	
9,300.00	7,500.00	7,700.00	7,560.71	34.52	28.47	100.30	-348.43	1,090.50	2,025.05	1,967.96	57.09	35.472	
9,400.00	7,500.00	7,713.16	7,573.82	34.94	28.52	102.54	-348.73	1,091.53	2,123.69	2,066.50	57.19	37.135	
9,500.00	7,500.00	7,714.87	7,575.53	35.37	28.53	102.83	-348.77	1,091.66	2,222.49	2,165.27	57.22	38.845	
9,600.00	7,500.00	7,716.56	7,577.21	35.81	28.53	103.11	-348.81	1,091.78	2,321.39	2,264.15	57.24	40.553	
9,700.00	7,500.00	12,158.22	9,888.00	36.26	41.69	172.38	-2,745.63	1,110.59	2,408.28	2,353.53	54.75	43.991	
9,800.00	7,500.00	12,258.22	9,888.00	36.73	42.07	172.38	-2,845.63	1,111.03	2,408.28	2,352.31	55.97	43.028	
9,900.00	7,500.00	12,358.22	9,888.00	37.20	42.47	172.38	-2,945.63	1,111.47	2,408.28	2,351.07	57.21	42.095	
10,000.00	7,500.00	12,458.22	9,888.00	37.68	42.88	172.38	-3,045.63	1,111.91	2,408.29	2,349.82	58.47	41.190	
10,100.00	7,500.00	12,558.22	9,888.00	38.17	43.30	172.38	-3,145.63	1,112.34	2,408.29	2,348.55	59.74	40.313	
10,200.00	7,500.00	12,658.22	9,888.00	38.66	43.73	172.38	-3,245.63	1,112.78	2,408.29	2,347.27	61.02	39.464	
10,300.00	7,500.00	12,758.22	9,888.00	39.17	44.17	172.38	-3,345.63	1,113.22	2,408.29	2,345.97	62.32	38.642	
10,400.00	7,500.00	12,858.22	9,888.00	39.68	44.61	172.38	-3,445.63	1,113.66	2,408.29	2,344.66	63.63	37.847	
10,500.00	7,500.00	12,958.22	9,888.00	40.20	45.06	172.37	-3,545.63	1,114.10	2,408.30	2,343.34	64.95	37.077	
10,600.00	7,500.00	13,058.22	9,888.00	40.73	45.53	172.37	-3,645.63	1,114.54	2,408.30	2,342.01	66.29	36.332	
10,700.00	7,500.00	13,158.22	9,888.00	41.26	45.99	172.37	-3,745.63	1,114.98	2,408.30	2,340.67	67.63	35.611	
10,800.00	7,500.00	13,258.22	9,888.00	41.80	46.47	172.37	-3,845.62	1,115.41	2,408.30	2,339.32	68.98	34.913	
10,900.00	7,500.00	13,358.22	9,888.00	42.35	46.96	172.37	-3,945.62	1,115.85	2,408.31	2,337.97	70.34	34.238	
11,000.00	7,500.00	13,458.22	9,888.00	42.91	47.45	172.37	-4,045.62	1,116.29	2,408.31	2,336.60	71.71	33.584	
11,100.00	7,500.00	13,558.22	9,888.00	43.47	47.95	172.37	-4,145.62	1,116.73	2,408.31	2,335.22	73.09	32.951	
11,200.00	7,500.00	13,658.22	9,888.00	44.03	48.45	172.37	-4,245.62	1,117.17	2,408.31	2,333.84	74.47	32.339	
11,300.00	7,500.00	13,758.22	9,888.00	44.61	48.96	172.37	-4,345.62	1,117.61	2,408.32	2,332.45	75.86	31.746	
11,400.00	7,500.00	13,858.22	9,888.00	45.18	49.48	172.37	-4,445.62	1,118.05	2,408.32	2,331.06	77.26	31.171	
11,500.00	7,500.00	13,958.22	9,888.00	45.77	50.01	172.37	-4,545.62	1,118.49	2,408.32	2,329.65	78.67	30.615	
11,581.32	7,500.00	14,039.53	9,888.00	46.24	50.44	172.37	-4,626.93	1,118.84	2,408.32	2,328.51	79.81	30.175	
11,600.00	7,500.00	14,058.22	9,888.00	46.35	50.54	172.37	-4,645.62	1,118.92	2,408.35	2,328.27	80.08	30.075	
11,650.00	7,500.00	14,108.14	9,888.00	46.65	50.80	172.33	-4,695.54	1,119.14	2,408.71	2,327.89	80.81	29.805	
11,700.00	7,500.00	14,157.81	9,888.00	46.96	51.07	172.25	-4,745.20	1,119.36	2,409.47	2,327.89	81.58	29.533	
11,750.00	7,500.00	14,207.04	9,888.00	47.27	51.34	172.13	-4,794.44	1,119.58	2,410.67	2,328.29	82.38	29.261	
11,800.00	7,500.00	14,308.91	9,888.00	47.59	51.90	171.83	-4,895.88	1,127.78	2,411.80	2,328.40	83.39	28.920	
11,850.00	7,500.00	14,414.59	9,888.00	47.91	52.51	171.71	-4,998.45	1,152.74	2,412.24	2,327.98	84.26	28.628	
11,900.00	7,500.00	14,520.59	9,888.00	48.23	53.13	171.78	-5,095.99	1,193.94	2,411.96	2,326.98	84.97	28.385	
11,950.00	7,500.00	14,624.18	9,888.00	48.56	53.72	172.05	-5,183.70	1,248.84	2,410.98	2,325.42	85.55	28.181	
12,000.00	7,500.00	14,723.08	9,888.00	48.88	54.26	172.48	-5,258.42	1,313.49	2,409.39	2,323.34	86.05	28.000	
12,050.00	7,500.00	14,815.75	9,888.00	49.20	54.74	173.01	-5,318.90	1,383.61	2,407.32	2,320.81	86.51	27.826	
12,100.00	7,500.00	14,901.47	9,888.00	49.52	55.14	173.62	-5,365.55	1,455.44	2,404.92	2,317.94	86.98	27.649	
12,150.00	7,500.00	14,980.15	9,888.00	49.83	55.46	174.27	-5,399.82	1,526.22	2,402.33	2,314.84	87.49	27.460	
12,200.00	7,500.00	15,052.16	9,888.00	50.14	55.73	174.92	-5,423.57	1,594.17	2,399.70	2,311.65	88.04	27.256	
12,250.00	7,500.00	15,118.11	9,888.00	50.44	55.93	175.57	-5,438.67	1,658.33	2,397.13	2,308.48	88.65	27.039	
12,300.00	7,500.00	15,178.69	9,888.00	50.74	56.09	176.21	-5,446.82	1,718.34	2,394.74	2,305.42	89.32	26.811	
12,350.00	7,500.00	15,234.58	9,888.00	51.02	56.21	176.83	-5,449.41	1,774.15	2,392.58	2,302.55	90.03	26.576	
12,400.00	7,500.00	15,286.43	9,888.00	51.30	56.29	177.45	-5,447.56	1,825.95	2,390.73	2,299.95	90.78	26.336	
12,450.00	7,500.00	15,334.80	9,888.00	51.56	56.36	178.05	-5,442.15	1,874.01	2,389.22	2,297.66	91.56	26.095	
12,500.00	7,500.00	15,380.18	9,888.00	51.81	56.39	178.64	-5,433.88	1,918.63	2,388.09	2,295.73	92.36	25.856	
12,550.00	7,500.00	15,423.00	9,888.00	52.05	56.42	179.23	-5,423.28	1,960.10	2,387.35	2,294.17	93.18	25.620	
12,600.00	7,500.00	15,463.62	9,888.00	52.27	56.42	179.82	-5,410.74	1,998.73	2,387.02	2,293.00	94.02	25.389	
12,615.66	7,500.00	15,475.93	9,888.00	52.33	56.42	-180.00	-5,406.47	2,010.28	2,387.00	2,292.71	94.28	25.317	
12,650.00	7,500.00	15,502.32	9,888.00	52.48	56.42	-179.60	-5,396.59	2,034.75	2,387.09	2,292.23	94.86	25.163	
12,700.00	7,500.00	15,539.38	9,888.00	52.67	56.40	-179.01	-5,381.08	2,068.40	2,387.58	2,291.86	95.71	24.945	
12,750.00	7,500.00	15,575.00	9,888.00	52.84	56.38	-178.42	-5,364.40	2,099.87	2,388.46	2,291.89	96.57	24.734	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,800.00	7,500.00	15,609.37	9,888.00	53.00	56.35	-177.83	-5,346.72	2,129.34	2,389.72	2,292.30	97.42	24.530	
12,850.00	7,500.00	15,642.64	9,888.00	53.14	56.31	-177.23	-5,328.16	2,156.95	2,391.36	2,293.09	98.27	24.335	
12,900.00	7,500.00	15,674.95	9,888.00	53.27	56.27	-176.63	-5,308.82	2,182.82	2,393.34	2,294.22	99.12	24.146	
12,950.00	7,500.00	15,706.41	9,888.00	53.37	56.22	-176.03	-5,288.79	2,207.08	2,395.65	2,295.69	99.96	23.966	
13,000.00	7,500.00	15,737.11	9,888.00	53.46	56.17	-175.43	-5,268.14	2,229.80	2,398.27	2,297.47	100.80	23.792	
13,050.00	7,500.00	15,767.15	9,888.00	53.53	56.11	-174.82	-5,246.93	2,251.06	2,401.16	2,299.53	101.63	23.626	
13,100.00	7,500.00	15,800.00	9,888.00	53.58	56.05	-174.18	-5,222.65	2,273.19	2,404.31	2,301.85	102.46	23.465	
13,150.00	7,500.00	15,825.49	9,888.00	53.62	55.99	-173.62	-5,203.07	2,289.50	2,407.67	2,304.40	103.27	23.314	
13,200.00	7,500.00	15,850.00	9,888.00	53.63	55.94	-173.07	-5,183.66	2,304.47	2,411.24	2,307.17	104.07	23.170	
13,250.00	7,500.00	15,881.92	9,888.00	53.63	55.86	-172.43	-5,157.57	2,322.84	2,414.95	2,310.08	104.88	23.027	
13,300.00	7,500.00	15,909.53	9,888.00	53.62	55.80	-171.84	-5,134.30	2,337.71	2,418.81	2,313.15	105.66	22.892	
13,350.00	7,500.00	15,936.80	9,888.00	53.58	55.73	-171.26	-5,110.73	2,351.41	2,422.76	2,316.32	106.44	22.762	
13,400.00	7,500.00	15,963.75	9,888.00	53.54	55.66	-170.70	-5,086.89	2,363.98	2,426.79	2,319.59	107.20	22.637	
13,450.00	7,500.00	16,000.00	9,888.00	53.48	55.56	-170.05	-5,054.05	2,379.33	2,430.89	2,322.90	107.99	22.510	
13,500.00	7,500.00	16,016.84	9,888.00	53.40	55.52	-169.60	-5,038.52	2,385.84	2,434.94	2,326.25	108.69	22.402	
13,550.00	7,500.00	16,050.00	9,888.00	53.32	55.42	-169.02	-5,007.48	2,397.48	2,439.02	2,329.57	109.45	22.285	
13,600.00	7,500.00	16,069.00	9,888.00	53.22	55.37	-168.58	-4,989.44	2,403.44	2,443.02	2,332.89	110.13	22.184	
13,650.00	7,500.00	16,100.00	9,888.00	53.12	55.29	-168.05	-4,959.66	2,412.04	2,446.97	2,336.13	110.84	22.076	
13,700.00	7,500.00	16,120.40	9,888.00	53.00	55.23	-167.63	-4,939.85	2,416.93	2,450.81	2,339.31	111.50	21.981	
13,750.00	7,500.00	16,150.00	9,888.00	52.88	55.15	-167.15	-4,910.87	2,422.92	2,454.54	2,342.36	112.18	21.880	
13,800.00	7,500.00	16,171.18	9,888.00	52.75	55.09	-166.77	-4,889.97	2,426.40	2,458.10	2,345.30	112.80	21.792	
13,850.00	7,500.00	16,200.00	9,888.00	52.61	55.00	-166.35	-4,861.39	2,430.06	2,461.51	2,348.06	113.45	21.697	
13,900.00	7,500.00	16,225.83	9,888.00	52.48	54.93	-165.99	-4,835.65	2,432.27	2,464.72	2,350.66	114.06	21.609	
13,950.00	7,500.00	16,258.86	9,888.00	52.33	54.84	-165.62	-4,802.69	2,434.26	2,467.60	2,352.90	114.70	21.513	
14,000.00	7,500.00	16,300.00	9,888.00	52.19	54.73	-165.29	-4,761.59	2,436.20	2,469.96	2,354.58	115.38	21.407	
14,050.00	7,500.00	16,339.62	9,888.00	52.05	54.63	-165.05	-4,722.00	2,437.51	2,471.76	2,355.72	116.03	21.302	
14,100.00	7,500.00	16,380.26	9,888.00	51.90	54.52	-164.88	-4,681.36	2,438.29	2,472.97	2,356.29	116.68	21.195	
14,105.32	7,500.00	16,384.59	9,888.00	51.89	54.51	-164.87	-4,677.04	2,438.34	2,473.06	2,356.31	116.75	21.183	
14,200.00	7,500.00	16,469.45	9,888.00	51.63	54.29	-164.73	-4,592.17	2,438.29	2,474.53	2,356.52	118.01	20.969	
14,300.00	7,500.00	16,569.40	9,888.00	51.35	54.04	-164.65	-4,492.22	2,437.85	2,475.30	2,355.89	119.41	20.730	
14,333.98	7,500.00	16,603.38	9,888.00	51.26	53.96	-164.65	-4,458.25	2,437.70	2,475.35	2,355.47	119.88	20.648	
14,400.00	7,500.00	16,669.40	9,888.00	51.09	53.80	-164.65	-4,392.22	2,437.42	2,475.35	2,354.55	120.80	20.491	
14,500.00	7,500.00	16,769.40	9,888.00	50.84	53.57	-164.65	-4,292.23	2,436.98	2,475.35	2,353.16	122.19	20.257	
14,600.00	7,500.00	16,869.40	9,888.00	50.59	53.34	-164.65	-4,192.23	2,436.55	2,475.35	2,351.75	123.59	20.028	
14,700.00	7,500.00	16,969.40	9,888.00	50.35	53.12	-164.65	-4,092.23	2,436.11	2,475.35	2,350.35	125.00	19.803	
14,800.00	7,500.00	17,069.40	9,888.00	50.12	52.92	-164.65	-3,992.23	2,435.68	2,475.34	2,348.94	126.40	19.583	
14,900.00	7,500.00	17,169.40	9,888.00	49.90	52.72	-164.65	-3,892.23	2,435.24	2,475.34	2,347.53	127.82	19.367	
15,000.00	7,500.00	17,269.40	9,888.00	49.69	52.53	-164.65	-3,792.23	2,434.81	2,475.34	2,346.11	129.23	19.155	
15,100.00	7,500.00	17,369.40	9,888.00	49.48	52.34	-164.65	-3,692.23	2,434.37	2,475.34	2,344.69	130.65	18.947	
15,200.00	7,500.00	17,469.40	9,888.00	49.28	52.17	-164.65	-3,592.23	2,433.94	2,475.34	2,343.27	132.07	18.743	
15,300.00	7,500.00	17,569.40	9,888.00	49.09	52.01	-164.65	-3,492.23	2,433.50	2,475.34	2,341.84	133.49	18.543	
15,400.00	7,500.00	17,669.40	9,888.00	48.91	51.85	-164.65	-3,392.23	2,433.07	2,475.33	2,340.41	134.92	18.347	
15,500.00	7,500.00	17,769.40	9,888.00	48.74	51.71	-164.65	-3,292.24	2,432.64	2,475.33	2,338.98	136.35	18.154	
15,600.00	7,500.00	17,869.40	9,888.00	48.57	51.57	-164.65	-3,192.24	2,432.20	2,475.33	2,337.54	137.79	17.965	
15,700.00	7,500.00	17,969.40	9,888.00	48.42	51.44	-164.65	-3,092.24	2,431.77	2,475.33	2,336.11	139.22	17.780	
15,800.00	7,500.00	18,069.40	9,888.00	48.27	51.32	-164.65	-2,992.24	2,431.33	2,475.33	2,334.66	140.66	17.598	
15,900.00	7,500.00	18,169.40	9,888.00	48.13	51.22	-164.65	-2,892.24	2,430.90	2,475.32	2,333.22	142.10	17.419	
16,000.00	7,500.00	18,269.40	9,888.00	48.01	51.12	-164.65	-2,792.24	2,430.46	2,475.32	2,331.77	143.55	17.244	
16,100.00	7,500.00	18,369.40	9,888.00	47.89	51.03	-164.65	-2,692.24	2,430.03	2,475.32	2,330.32	145.00	17.072	
16,200.00	7,500.00	18,469.40	9,888.00	47.78	50.95	-164.65	-2,592.24	2,429.59	2,475.32	2,328.87	146.45	16.903	
16,300.00	7,500.00	18,569.40	9,888.00	47.68	50.88	-164.65	-2,492.24	2,429.16	2,475.32	2,327.42	147.90	16.737	
16,400.00	7,500.00	18,669.40	9,888.00	47.59	50.83	-164.65	-2,392.24	2,428.72	2,475.31	2,325.96	149.35	16.574	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,500.00	7,500.00	18,769.40	9,888.00	47.51	50.78	-164.65	-2,292.24	2,428.29	2,475.31	2,324.50	150.81	16.413	
16,600.00	7,500.00	18,869.40	9,888.00	47.44	50.75	-164.65	-2,192.25	2,427.85	2,475.31	2,323.04	152.27	16.256	
16,700.00	7,500.00	18,969.40	9,888.00	47.39	50.72	-164.65	-2,092.25	2,427.42	2,475.31	2,321.58	153.73	16.102	
16,800.00	7,500.00	19,069.40	9,888.00	47.34	50.71	-164.65	-1,992.25	2,426.98	2,475.31	2,320.11	155.19	15.950	
16,900.00	7,500.00	19,169.40	9,888.00	47.31	50.71	-164.65	-1,892.25	2,426.55	2,475.31	2,318.65	156.66	15.801	
17,000.00	7,500.00	7,774.18	7,634.71	47.29	28.74	-93.86	-349.92	1,095.52	2,456.33	2,388.65	67.68	36.296	
17,100.00	7,500.00	7,773.26	7,633.78	47.28	28.73	-93.84	-349.91	1,095.47	2,398.73	2,330.42	68.31	35.117	
17,200.00	7,500.00	7,772.32	7,632.85	47.28	28.73	-93.81	-349.89	1,095.42	2,343.98	2,275.01	68.97	33.984	
17,300.00	7,500.00	7,771.37	7,631.90	47.30	28.73	-93.78	-349.88	1,095.37	2,292.29	2,222.62	69.67	32.902	
17,400.00	7,500.00	7,770.41	7,630.94	47.33	28.72	-93.76	-349.86	1,095.31	2,243.86	2,173.47	70.39	31.876	
17,500.00	7,500.00	7,769.44	7,629.97	47.37	28.72	-93.73	-349.84	1,095.26	2,198.92	2,127.78	71.14	30.910	
17,600.00	7,500.00	7,768.46	7,629.00	47.43	28.72	-93.70	-349.83	1,095.20	2,157.68	2,085.78	71.90	30.009	
17,700.00	7,500.00	7,767.47	7,628.01	47.50	28.71	-93.67	-349.81	1,095.15	2,120.36	2,047.68	72.67	29.177	
17,800.00	7,500.00	7,766.47	7,627.00	47.59	28.71	-93.64	-349.79	1,095.09	2,087.16	2,013.72	73.44	28.419	
17,900.00	7,500.00	7,765.45	7,625.99	47.69	28.70	-93.61	-349.77	1,095.03	2,058.29	1,984.09	74.20	27.738	
18,000.00	7,500.00	7,764.43	7,624.97	47.81	28.70	-93.58	-349.76	1,094.97	2,033.93	1,958.99	74.95	27.139	
18,100.00	7,500.00	7,763.39	7,623.93	47.94	28.70	-93.55	-349.74	1,094.91	2,014.25	1,938.59	75.66	26.623	
18,200.00	7,500.00	7,762.34	7,622.88	48.08	28.69	-93.52	-349.72	1,094.85	1,999.38	1,923.05	76.33	26.195	
18,300.00	7,500.00	7,761.27	7,621.82	48.25	28.69	-93.49	-349.70	1,094.78	1,989.43	1,912.48	76.95	25.854	
18,400.00	7,500.00	7,760.19	7,620.74	48.42	28.69	-93.46	-349.68	1,094.72	1,984.47	1,906.96	77.51	25.603	
18,448.50	7,500.00	7,759.67	7,620.21	48.51	28.68	-93.45	-349.67	1,094.69	1,983.88	1,906.12	77.76	25.513	
18,461.64	7,500.00	7,759.52	7,620.07	48.54	28.68	-93.44	-349.67	1,094.68	1,983.92	1,906.10	77.82	25.493	
18,462.14	7,500.00	7,759.52	7,620.07	49.47	28.68	-93.44	-349.67	1,094.68	1,983.92	1,906.11	77.82	25.495	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	-90.65	-0.68	-59.98	59.98				
100.00	100.00	101.00	101.00	0.28	0.28	-90.65	-0.68	-59.98	59.98	59.43	0.56	107.956	
200.00	200.00	201.00	201.00	0.63	0.64	-90.65	-0.68	-59.98	59.98	58.71	1.27	47.136	
300.00	300.00	301.00	301.00	0.99	1.00	-90.65	-0.68	-59.98	59.98	57.99	1.99	30.150	
400.00	400.00	401.00	401.00	1.35	1.36	-90.65	-0.68	-59.98	59.98	57.28	2.71	22.163	
416.33	416.33	417.33	417.33	1.41	1.41	-90.65	-0.68	-59.98	59.98	57.16	2.82	21.244	CC
500.00	500.00	501.00	501.00	1.71	1.71	-90.65	-0.68	-59.98	59.98	56.56	3.42	17.523	
600.00	599.98	600.93	600.91	2.06	2.06	163.79	-2.46	-59.98	61.70	57.59	4.11	15.005	
700.00	699.84	700.58	700.42	2.40	2.39	160.51	-7.70	-59.98	67.01	62.22	4.79	13.995	
750.00	749.68	750.22	749.90	2.58	2.56	158.39	-11.60	-59.98	71.11	65.97	5.13	13.856	
800.00	799.49	799.94	799.43	2.75	2.73	156.33	-15.93	-59.98	75.75	70.28	5.48	13.835	
900.00	899.11	899.36	898.48	3.10	3.07	152.90	-24.60	-59.98	85.29	79.13	6.17	13.829	
1,000.00	998.73	998.79	997.53	3.46	3.42	150.17	-33.27	-59.98	95.08	88.21	6.87	13.846	
1,001.27	1,000.00	1,000.06	998.79	3.46	3.42	150.14	-33.38	-59.98	95.20	88.33	6.88	13.846	
1,100.00	1,098.18	1,101.77	1,100.13	3.81	3.78	146.24	-41.92	-58.25	104.66	97.08	7.59	13.796	
1,200.00	1,197.22	1,205.29	1,203.18	4.18	4.14	144.41	-49.95	-52.84	113.44	105.13	8.31	13.653	
1,300.00	1,295.71	1,309.20	1,306.43	4.54	4.51	143.95	-57.31	-43.71	121.33	112.30	9.03	13.437	
1,400.00	1,393.53	1,413.44	1,409.65	4.91	4.89	144.51	-63.99	-30.86	128.35	118.60	9.75	13.168	
1,414.82	1,407.97	1,428.92	1,424.94	4.97	4.94	144.67	-64.92	-28.64	129.32	119.46	9.85	13.124	
1,500.00	1,490.88	1,518.02	1,512.72	5.28	5.26	145.93	-69.97	-14.25	133.55	123.09	10.46	12.768	
1,600.00	1,588.22	1,622.88	1,615.44	5.66	5.64	147.22	-75.24	6.11	135.22	124.05	11.17	12.109	
1,700.00	1,685.56	1,727.74	1,717.40	6.04	6.02	148.42	-79.76	30.15	133.29	121.42	11.87	11.230	
1,800.00	1,782.90	1,828.33	1,814.68	6.42	6.38	149.58	-83.64	55.45	129.09	116.48	12.61	10.239	
1,900.00	1,880.24	1,928.20	1,911.25	6.80	6.75	150.82	-87.49	80.61	124.91	111.55	13.36	9.350	
2,000.00	1,977.58	2,028.08	2,007.83	7.18	7.12	152.14	-91.33	105.77	120.79	106.67	14.12	8.557	
2,100.00	2,074.91	2,127.95	2,104.41	7.57	7.50	153.55	-95.18	130.93	116.74	101.86	14.88	7.847	
2,200.00	2,172.25	2,227.83	2,200.99	7.95	7.88	155.07	-99.03	156.09	112.76	97.12	15.64	7.210	
2,300.00	2,269.59	2,327.70	2,297.56	8.34	8.26	156.69	-102.88	181.25	108.87	92.46	16.41	6.636	
2,400.00	2,366.93	2,427.58	2,394.14	8.73	8.64	158.43	-106.72	206.41	105.07	87.90	17.17	6.118	
2,500.00	2,464.27	2,527.45	2,490.72	9.11	9.02	160.30	-110.57	231.57	101.38	83.43	17.94	5.650	
2,600.00	2,561.61	2,627.33	2,587.29	9.50	9.41	162.31	-114.42	256.73	97.80	79.09	18.72	5.226	
2,700.00	2,658.95	2,727.20	2,683.87	9.89	9.80	164.47	-118.26	281.90	94.35	74.87	19.49	4.842	
2,800.00	2,756.29	2,827.08	2,780.45	10.28	10.18	166.79	-122.11	307.06	91.05	70.79	20.26	4.494	
2,900.00	2,853.63	2,926.95	2,877.03	10.67	10.57	169.28	-125.96	332.22	87.91	66.87	21.04	4.179	
3,000.00	2,950.97	3,026.83	2,973.60	11.06	10.96	171.95	-129.80	357.38	84.94	63.13	21.81	3.895	
3,100.00	3,048.31	3,126.70	3,070.18	11.45	11.35	174.80	-133.65	382.54	82.17	59.59	22.58	3.639	
3,200.00	3,145.64	3,226.58	3,166.76	11.84	11.75	177.85	-137.50	407.70	79.62	56.27	23.36	3.409	
3,300.00	3,242.98	3,326.45	3,263.34	12.23	12.14	-178.92	-141.34	432.86	77.31	53.18	24.13	3.204	
3,400.00	3,340.32	3,426.33	3,359.91	12.62	12.53	-175.49	-145.19	458.02	75.27	50.36	24.91	3.022	
3,500.00	3,437.66	3,526.20	3,456.49	13.01	12.92	-171.89	-149.04	483.18	73.50	47.82	25.68	2.862	
3,600.00	3,535.00	3,626.07	3,553.07	13.40	13.32	-168.13	-152.89	508.34	72.04	45.58	26.46	2.723	
3,700.00	3,632.34	3,725.95	3,649.65	13.79	13.71	-164.23	-156.73	533.50	70.90	43.67	27.23	2.603	
3,800.00	3,729.68	3,825.82	3,746.22	14.19	14.11	-160.23	-160.58	558.66	70.10	42.09	28.01	2.502	
3,900.00	3,827.02	3,925.70	3,842.80	14.58	14.50	-156.15	-164.43	583.82	69.65	40.86	28.79	2.419	
3,975.47	3,900.48	4,001.07	3,915.68	14.87	14.80	-153.05	-167.33	602.80	69.55	40.17	29.38	2.367	
4,000.00	3,924.36	4,025.57	3,939.38	14.97	14.90	-152.04	-168.27	608.98	69.56	39.99	29.57	2.352	
4,100.00	4,021.70	4,125.45	4,035.95	15.36	15.29	-147.94	-172.12	634.14	69.83	39.47	30.36	2.300	
4,200.00	4,119.04	4,225.32	4,132.53	15.75	15.69	-143.89	-175.97	659.30	70.45	39.31	31.15	2.262	ES
4,300.00	4,216.37	4,325.20	4,229.11	16.15	16.08	-139.93	-179.81	684.46	71.42	39.48	31.93	2.236	
4,400.00	4,313.71	4,425.07	4,325.69	16.54	16.48	-136.10	-183.66	709.62	72.72	39.99	32.73	2.222	
4,500.00	4,411.05	4,524.95	4,422.26	16.93	16.88	-132.42	-187.51	734.78	74.33	40.81	33.52	2.217	SF
4,600.00	4,508.39	4,624.82	4,518.84	17.32	17.27	-128.90	-191.35	759.94	76.24	41.92	34.32	2.222	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,700.00	4,605.73	4,724.70	4,615.42	17.72	17.67	-125.57	-195.20	785.10	78.42	43.30	35.11	2.233	
4,800.00	4,703.07	4,824.57	4,712.00	18.11	18.07	-122.43	-199.05	810.26	80.85	44.94	35.91	2.251	
4,900.00	4,800.41	4,924.45	4,808.57	18.50	18.46	-119.48	-202.90	835.42	83.51	46.80	36.71	2.275	
5,000.00	4,897.75	5,024.32	4,905.15	18.90	18.86	-116.72	-206.74	860.58	86.37	48.86	37.51	2.303	
5,100.00	4,995.09	5,124.20	5,001.73	19.29	19.26	-114.14	-210.59	885.74	89.43	51.12	38.31	2.334	
5,200.00	5,092.43	5,224.07	5,098.30	19.68	19.66	-111.73	-214.44	910.90	92.65	53.54	39.12	2.369	
5,300.00	5,189.77	5,323.95	5,194.88	20.07	20.06	-109.49	-218.28	936.06	96.03	56.11	39.92	2.406	
5,400.00	5,287.10	5,423.82	5,291.46	20.47	20.45	-107.41	-222.13	961.22	99.54	58.82	40.72	2.445	
5,500.00	5,384.44	5,523.70	5,388.04	20.86	20.85	-105.47	-225.98	986.38	103.18	61.66	41.52	2.485	
5,600.00	5,481.78	5,623.57	5,484.61	21.25	21.25	-103.66	-229.82	1,011.54	106.92	64.60	42.32	2.526	
5,700.00	5,579.12	5,723.45	5,581.19	21.65	21.65	-101.98	-233.67	1,036.70	110.77	67.64	43.12	2.569	
5,800.00	5,676.46	5,823.32	5,677.77	22.04	22.05	-100.41	-237.52	1,061.86	114.70	70.78	43.93	2.611	
5,900.00	5,773.80	5,923.20	5,774.35	22.43	22.45	-98.95	-241.37	1,087.02	118.72	73.99	44.73	2.654	
6,000.00	5,871.14	6,023.07	5,870.92	22.83	22.85	-97.58	-245.21	1,112.18	122.80	77.27	45.53	2.697	
6,100.00	5,968.48	6,122.95	5,967.50	23.22	23.24	-96.30	-249.06	1,137.34	126.95	80.62	46.33	2.740	
6,200.00	6,065.82	6,222.82	6,064.08	23.61	23.64	-95.10	-252.91	1,162.50	131.16	84.03	47.13	2.783	
6,300.00	6,163.16	6,322.70	6,160.66	24.01	24.04	-93.98	-256.75	1,187.66	135.43	87.50	47.93	2.825	
6,400.00	6,260.50	6,422.57	6,257.23	24.40	24.44	-92.93	-260.60	1,212.82	139.74	91.01	48.73	2.867	
6,500.00	6,357.83	6,522.45	6,353.81	24.79	24.84	-91.94	-264.45	1,237.98	144.10	94.56	49.53	2.909	
6,600.00	6,455.17	6,622.32	6,450.39	25.19	25.24	-91.01	-268.29	1,263.14	148.50	98.16	50.33	2.950	
6,700.00	6,552.51	6,722.20	6,546.96	25.58	25.64	-90.13	-272.14	1,288.30	152.93	101.80	51.14	2.991	
6,800.00	6,649.85	6,822.07	6,643.54	25.98	26.04	-89.30	-275.99	1,313.46	157.40	105.46	51.94	3.031	
6,900.00	6,747.19	6,921.95	6,740.12	26.37	26.44	-88.52	-279.83	1,338.62	161.90	109.16	52.74	3.070	
7,000.00	6,844.53	7,021.82	6,836.70	26.76	26.84	-87.78	-283.68	1,363.78	166.43	112.89	53.54	3.109	
7,100.00	6,941.87	7,121.70	6,933.27	27.16	27.24	-87.08	-287.53	1,388.94	170.98	116.65	54.34	3.147	
7,115.01	6,956.48	7,136.69	6,947.77	27.22	27.30	-86.98	-288.11	1,392.72	171.67	117.21	54.46	3.152	
7,150.00	6,990.45	7,171.58	6,981.50	27.35	27.44	-99.94	-289.45	1,401.51	174.28	119.54	54.74	3.184	
7,200.00	7,038.53	7,221.03	7,029.32	27.55	27.64	-114.16	-291.35	1,413.97	181.51	126.38	55.13	3.293	
7,250.00	7,085.72	7,269.68	7,076.37	27.75	27.83	-124.07	-293.23	1,426.22	192.82	137.31	55.51	3.473	
7,300.00	7,131.67	7,317.16	7,122.28	27.94	28.02	-131.09	-295.06	1,438.18	208.15	152.27	55.88	3.725	
7,350.00	7,176.02	7,363.10	7,166.70	28.13	28.20	-136.23	-296.83	1,449.76	227.44	171.21	56.24	4.044	
7,400.00	7,218.44	7,407.16	7,209.30	28.32	28.38	-140.10	-298.52	1,460.85	250.59	194.01	56.58	4.429	
7,450.00	7,258.60	7,448.99	7,249.76	28.50	28.55	-143.04	-300.13	1,471.39	277.44	220.55	56.89	4.876	
7,500.00	7,296.21	7,488.29	7,287.76	28.67	28.71	-145.25	-301.65	1,481.29	307.83	250.64	57.19	5.382	
7,550.00	7,330.97	7,524.75	7,323.02	28.84	28.85	-146.84	-303.05	1,490.48	341.54	284.07	57.47	5.943	
7,600.00	7,362.62	7,558.09	7,355.26	28.99	28.99	-147.87	-304.34	1,498.88	378.31	320.60	57.72	6.555	
7,650.00	7,390.91	7,588.07	7,384.25	29.15	29.11	-148.33	-305.49	1,506.43	417.88	359.94	57.94	7.212	
7,700.00	7,415.64	7,614.45	7,409.75	29.30	29.21	-148.15	-306.51	1,513.08	459.94	401.81	58.13	7.912	
7,750.00	7,436.62	7,637.03	7,431.59	29.44	29.30	-147.16	-307.38	1,518.76	504.16	445.87	58.30	8.648	
7,800.00	7,453.68	7,655.64	7,449.59	29.57	29.38	-144.98	-308.09	1,523.45	550.22	491.78	58.43	9.416	
7,825.96	7,460.95	7,663.69	7,457.37	29.64	29.41	-143.12	-308.40	1,525.48	574.73	516.23	58.49	9.826	
7,900.00	7,477.79	7,682.83	7,475.88	29.84	29.48	-137.59	-309.14	1,530.30	645.76	587.13	58.63	11.015	
8,000.00	7,493.08	7,701.53	7,493.96	30.11	29.56	-124.72	-309.86	1,535.01	743.25	684.49	58.76	12.649	
8,100.00	7,499.70	7,711.88	7,503.97	30.38	29.60	-100.57	-310.26	1,537.62	841.88	783.04	58.84	14.308	
8,125.95	7,499.99	7,713.20	7,505.24	30.45	29.61	-92.04	-310.31	1,537.95	867.58	808.73	58.85	14.742	
8,200.00	7,499.99	7,716.14	7,508.08	30.65	29.62	-93.39	-310.42	1,538.69	940.98	882.09	58.88	15.981	
8,300.00	7,499.99	7,720.10	7,511.92	30.94	29.63	-95.17	-310.58	1,539.69	1,040.23	981.31	58.92	17.655	
8,400.00	7,499.99	7,724.07	7,515.76	31.24	29.65	-96.91	-310.73	1,540.69	1,139.60	1,080.64	58.96	19.329	
8,500.00	7,499.99	7,728.04	7,519.59	31.56	29.67	-98.61	-310.88	1,541.69	1,239.06	1,180.06	59.00	21.001	
8,600.00	7,500.00	7,732.00	7,523.43	31.88	29.68	-100.27	-311.04	1,542.69	1,338.59	1,279.55	59.04	22.673	
8,700.00	7,500.00	7,735.97	7,527.26	32.22	29.70	-101.88	-311.19	1,543.69	1,438.17	1,379.09	59.08	24.343	
8,800.00	7,500.00	7,739.94	7,531.10	32.58	29.71	-103.46	-311.34	1,544.69	1,537.79	1,478.67	59.12	26.012	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,500.00	7,743.91	7,534.94	32.94	29.73	-104.98	-311.49	1,545.69	1,637.46	1,578.30	59.16	27.678	
9,000.00	7,500.00	7,747.87	7,538.77	33.32	29.75	-106.47	-311.65	1,546.69	1,737.15	1,677.95	59.20	29.342	
9,100.00	7,500.00	7,751.84	7,542.61	33.71	29.76	-107.90	-311.80	1,547.69	1,836.87	1,777.62	59.25	31.004	
9,200.00	7,500.00	7,755.81	7,546.45	34.11	29.78	-109.30	-311.95	1,548.69	1,936.60	1,877.31	59.29	32.663	
9,300.00	7,500.00	7,759.78	7,550.28	34.52	29.79	-110.64	-312.11	1,549.69	2,036.36	1,977.02	59.33	34.320	
9,400.00	7,500.00	7,763.74	7,554.12	34.94	29.81	-111.95	-312.26	1,550.68	2,136.13	2,076.75	59.38	35.974	
9,500.00	7,500.00	11,836.74	9,673.00	35.37	42.43	-171.22	-2,542.77	1,764.58	2,197.76	2,151.70	46.07	47.710	
9,600.00	7,500.00	11,936.74	9,673.00	35.81	42.81	-171.22	-2,642.76	1,765.02	2,197.76	2,150.51	47.25	46.515	
9,700.00	7,500.00	12,036.74	9,673.00	36.26	43.20	-171.22	-2,742.76	1,765.45	2,197.76	2,149.31	48.45	45.359	
9,800.00	7,500.00	12,136.74	9,673.00	36.73	43.59	-171.22	-2,842.76	1,765.89	2,197.75	2,148.08	49.68	44.241	
9,900.00	7,500.00	12,236.74	9,673.00	37.20	44.00	-171.22	-2,942.76	1,766.33	2,197.75	2,146.83	50.92	43.161	
10,000.00	7,500.00	12,336.74	9,673.00	37.68	44.41	-171.22	-3,042.76	1,766.77	2,197.75	2,145.57	52.18	42.118	
10,100.00	7,500.00	12,436.74	9,673.00	38.17	44.84	-171.22	-3,142.76	1,767.21	2,197.75	2,144.29	53.46	41.113	
10,200.00	7,500.00	12,536.74	9,673.00	38.66	45.27	-171.22	-3,242.76	1,767.65	2,197.74	2,142.99	54.75	40.143	
10,300.00	7,500.00	12,636.74	9,673.00	39.17	45.71	-171.22	-3,342.76	1,768.08	2,197.74	2,141.69	56.05	39.208	
10,400.00	7,500.00	12,736.74	9,673.00	39.68	46.15	-171.22	-3,442.76	1,768.52	2,197.74	2,140.36	57.37	38.307	
10,500.00	7,500.00	12,836.74	9,673.00	40.20	46.61	-171.22	-3,542.76	1,768.96	2,197.73	2,139.03	58.70	37.439	
10,600.00	7,500.00	12,936.74	9,673.00	40.73	47.07	-171.22	-3,642.75	1,769.40	2,197.73	2,137.69	60.04	36.603	
10,700.00	7,500.00	13,036.74	9,673.00	41.26	47.54	-171.22	-3,742.75	1,769.84	2,197.73	2,136.33	61.39	35.797	
10,800.00	7,500.00	13,136.74	9,673.00	41.80	48.01	-171.23	-3,842.75	1,770.28	2,197.72	2,134.97	62.76	35.020	
10,900.00	7,500.00	13,236.74	9,673.00	42.35	48.50	-171.23	-3,942.75	1,770.71	2,197.72	2,133.59	64.13	34.271	
11,000.00	7,500.00	13,336.74	9,673.00	42.91	48.99	-171.23	-4,042.75	1,771.15	2,197.72	2,132.21	65.51	33.549	
11,100.00	7,500.00	13,436.74	9,673.00	43.47	49.48	-171.23	-4,142.75	1,771.59	2,197.71	2,130.82	66.90	32.853	
11,200.00	7,500.00	13,536.74	9,673.00	44.03	49.99	-171.23	-4,242.75	1,772.03	2,197.71	2,129.42	68.29	32.181	
11,300.00	7,500.00	13,636.74	9,673.00	44.61	50.49	-171.23	-4,342.75	1,772.47	2,197.71	2,128.01	69.69	31.533	
11,400.00	7,500.00	13,736.74	9,673.00	45.18	51.01	-171.23	-4,442.75	1,772.91	2,197.70	2,126.60	71.10	30.908	
11,500.00	7,500.00	13,836.74	9,673.00	45.77	51.53	-171.23	-4,542.75	1,773.34	2,197.70	2,125.18	72.52	30.304	
11,581.32	7,500.00	13,918.06	9,673.00	46.24	51.96	-171.23	-4,624.06	1,773.70	2,197.70	2,124.02	73.68	29.829	
11,600.00	7,500.00	13,936.74	9,673.00	46.35	52.06	-171.24	-4,642.74	1,773.78	2,197.67	2,123.72	73.95	29.720	
11,650.00	7,500.00	13,986.66	9,673.00	46.65	52.32	-171.33	-4,692.66	1,774.00	2,197.26	2,122.58	74.69	29.420	
11,700.00	7,500.00	14,036.33	9,673.00	46.96	52.59	-171.54	-4,742.33	1,774.22	2,196.41	2,120.95	75.46	29.109	
11,750.00	7,500.00	14,084.64	9,673.00	47.27	52.85	-171.84	-4,790.65	1,774.43	2,195.14	2,118.88	76.25	28.787	
11,800.00	7,500.00	14,118.41	9,673.00	47.59	53.03	-172.12	-4,824.40	1,775.44	2,193.66	2,116.62	77.04	28.475	
11,850.00	7,500.00	14,150.00	9,673.00	47.91	53.20	-172.40	-4,855.88	1,777.96	2,192.16	2,114.34	77.83	28.167	
11,900.00	7,500.00	14,185.62	9,673.00	48.23	53.41	-172.72	-4,891.20	1,782.61	2,190.66	2,112.02	78.63	27.859	
11,950.00	7,500.00	14,219.73	9,673.00	48.56	53.60	-173.03	-4,924.72	1,788.84	2,189.15	2,109.71	79.44	27.556	
12,000.00	7,500.00	14,250.00	9,673.00	48.88	53.78	-173.32	-4,954.18	1,795.82	2,187.67	2,107.41	80.26	27.257	
12,050.00	7,500.00	14,289.07	9,673.00	49.20	54.01	-173.68	-4,991.67	1,806.82	2,186.20	2,105.11	81.09	26.959	
12,100.00	7,500.00	14,324.37	9,673.00	49.52	54.22	-174.02	-5,024.91	1,818.66	2,184.77	2,102.84	81.93	26.668	
12,150.00	7,500.00	14,360.13	9,673.00	49.83	54.43	-174.36	-5,057.90	1,832.45	2,183.38	2,100.61	82.76	26.381	
12,200.00	7,500.00	14,400.00	9,673.00	50.14	54.67	-174.74	-5,093.74	1,849.91	2,182.04	2,098.44	83.60	26.100	
12,250.00	7,500.00	14,433.13	9,673.00	50.44	54.87	-175.06	-5,122.67	1,866.06	2,180.76	2,096.31	84.45	25.822	
12,300.00	7,500.00	14,470.45	9,673.00	50.74	55.09	-175.42	-5,154.23	1,885.96	2,179.55	2,094.25	85.30	25.552	
12,350.00	7,500.00	14,508.37	9,673.00	51.02	55.31	-175.78	-5,185.09	1,907.97	2,178.42	2,092.27	86.15	25.287	
12,400.00	7,500.00	14,550.00	9,673.00	51.30	55.55	-176.17	-5,217.45	1,934.15	2,177.37	2,090.39	86.98	25.032	
12,450.00	7,500.00	14,586.12	9,673.00	51.56	55.76	-176.50	-5,244.15	1,958.49	2,176.41	2,088.58	87.83	24.779	
12,500.00	7,500.00	14,626.05	9,673.00	51.81	55.98	-176.87	-5,272.04	1,987.04	2,175.54	2,086.87	88.67	24.535	
12,550.00	7,500.00	14,666.71	9,673.00	52.05	56.20	-177.23	-5,298.62	2,017.81	2,174.77	2,085.27	89.50	24.299	
12,600.00	7,500.00	14,708.17	9,673.00	52.27	56.42	-177.59	-5,323.71	2,050.81	2,174.10	2,083.78	90.32	24.071	
12,650.00	7,500.00	14,750.00	9,673.00	52.48	56.63	-177.94	-5,346.86	2,085.63	2,173.52	2,082.39	91.13	23.850	
12,700.00	7,500.00	14,793.60	9,673.00	52.67	56.84	-178.29	-5,368.59	2,123.42	2,173.05	2,081.12	91.93	23.639	
12,750.00	7,500.00	14,837.64	9,673.00	52.84	57.04	-178.63	-5,387.95	2,162.97	2,172.67	2,079.95	92.71	23.435	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,800.00	7,500.00	14,882.61	9,673.00	53.00	57.23	-178.97	-5,404.94	2,204.60	2,172.38	2,078.90	93.48	23.239	
12,850.00	7,500.00	14,928.55	9,673.00	53.14	57.41	-179.29	-5,419.32	2,248.22	2,172.17	2,077.94	94.23	23.051	
12,900.00	7,500.00	14,975.45	9,673.00	53.27	57.58	-179.61	-5,430.83	2,293.68	2,172.05	2,077.08	94.97	22.870	
12,950.00	7,500.00	15,023.36	9,673.00	53.37	57.74	-179.91	-5,439.20	2,340.83	2,172.00	2,076.30	95.70	22.697	
12,964.66	7,500.00	15,037.59	9,673.00	53.40	57.78	180.00	-5,441.03	2,354.95	2,172.00	2,076.09	95.91	22.647	
13,000.00	7,500.00	15,072.25	9,673.00	53.46	57.88	179.80	-5,444.19	2,389.46	2,172.01	2,075.61	96.40	22.530	
13,050.00	7,500.00	15,122.13	9,673.00	53.53	58.00	179.52	-5,445.55	2,439.31	2,172.08	2,074.98	97.10	22.370	
13,100.00	7,500.00	15,172.98	9,673.00	53.58	58.10	179.27	-5,443.03	2,490.09	2,172.18	2,074.40	97.78	22.214	
13,150.00	7,500.00	15,224.75	9,673.00	53.62	58.19	179.04	-5,436.46	2,541.43	2,172.31	2,073.85	98.46	22.063	
13,200.00	7,500.00	15,277.41	9,673.00	53.63	58.25	178.83	-5,425.65	2,592.95	2,172.46	2,073.33	99.13	21.915	
13,250.00	7,500.00	15,330.87	9,673.00	53.63	58.29	178.64	-5,410.50	2,644.20	2,172.62	2,072.82	99.80	21.769	
13,300.00	7,500.00	15,385.05	9,673.00	53.62	58.30	178.48	-5,390.95	2,694.72	2,172.77	2,072.29	100.48	21.624	
13,350.00	7,500.00	15,439.86	9,673.00	53.58	58.29	178.35	-5,367.01	2,744.00	2,172.91	2,071.74	101.16	21.480	
13,400.00	7,500.00	15,495.16	9,673.00	53.54	58.26	178.25	-5,338.79	2,791.55	2,173.01	2,071.16	101.86	21.334	
13,450.00	7,500.00	15,550.84	9,673.00	53.48	58.21	178.18	-5,306.44	2,836.84	2,173.09	2,070.53	102.57	21.187	
13,500.00	7,500.00	15,606.75	9,673.00	53.40	58.14	178.15	-5,270.22	2,879.41	2,173.13	2,069.84	103.30	21.038	
13,550.00	7,500.00	15,662.75	9,673.00	53.32	58.05	178.14	-5,230.45	2,918.81	2,173.14	2,069.09	104.05	20.886	
13,600.00	7,500.00	15,718.68	9,673.00	53.22	57.94	178.18	-5,187.53	2,954.65	2,173.10	2,068.28	104.82	20.732	
13,650.00	7,500.00	15,774.39	9,673.00	53.12	57.82	178.24	-5,141.91	2,986.59	2,173.03	2,067.41	105.62	20.575	
13,700.00	7,500.00	15,829.75	9,673.00	53.00	57.69	178.34	-5,094.06	3,014.40	2,172.92	2,066.49	106.43	20.416	
13,750.00	7,500.00	15,884.62	9,673.00	52.88	57.55	178.46	-5,044.49	3,037.89	2,172.79	2,065.52	107.27	20.256	
13,800.00	7,500.00	15,938.89	9,673.00	52.75	57.41	178.62	-4,993.71	3,056.99	2,172.64	2,064.52	108.12	20.094	
13,850.00	7,500.00	15,992.44	9,673.00	52.61	57.27	178.80	-4,942.23	3,071.66	2,172.48	2,063.49	108.99	19.933	
13,900.00	7,500.00	16,045.19	9,673.00	52.48	57.12	179.01	-4,890.51	3,081.98	2,172.33	2,062.46	109.87	19.773	
13,950.00	7,500.00	16,097.07	9,673.00	52.33	56.98	179.24	-4,839.00	3,088.06	2,172.19	2,061.44	110.75	19.614	
14,000.00	7,500.00	16,147.18	9,673.00	52.19	56.84	179.47	-4,788.96	3,090.79	2,172.09	2,060.47	111.62	19.460	
14,050.00	7,500.00	16,196.99	9,673.00	52.05	56.71	179.65	-4,739.18	3,092.52	2,172.04	2,059.58	112.45	19.315	
14,100.00	7,500.00	16,246.95	9,673.00	51.90	56.58	179.77	-4,689.23	3,093.39	2,172.01	2,058.75	113.27	19.176	
14,105.32	7,500.00	16,252.27	9,673.00	51.89	56.56	179.78	-4,683.91	3,093.43	2,172.01	2,058.66	113.35	19.162	
14,200.00	7,500.00	16,346.86	9,673.00	51.63	56.32	179.93	-4,589.33	3,093.19	2,172.00	2,057.15	114.85	18.912	
14,275.60	7,500.00	16,422.41	9,673.00	51.42	56.13	180.00	-4,513.77	3,092.86	2,172.00	2,055.98	116.02	18.722	
14,300.00	7,500.00	16,446.81	9,673.00	51.35	56.07	-179.99	-4,489.38	3,092.75	2,172.00	2,055.61	116.39	18.662	
14,333.98	7,500.00	16,480.79	9,673.00	51.26	55.99	-179.99	-4,455.40	3,092.61	2,172.00	2,055.09	116.90	18.579	
14,400.00	7,500.00	16,546.81	9,673.00	51.09	55.83	-179.99	-4,389.38	3,092.32	2,172.00	2,054.10	117.90	18.423	
14,500.00	7,500.00	16,646.81	9,673.00	50.84	55.60	-179.99	-4,289.38	3,091.88	2,172.00	2,052.59	119.41	18.190	
14,600.00	7,500.00	16,746.81	9,673.00	50.59	55.37	-179.99	-4,189.38	3,091.45	2,172.00	2,051.08	120.92	17.963	
14,700.00	7,500.00	16,846.81	9,673.00	50.35	55.15	-179.99	-4,089.38	3,091.01	2,172.00	2,049.57	122.43	17.741	
14,800.00	7,500.00	16,946.81	9,673.00	50.12	54.94	-179.99	-3,989.38	3,090.58	2,172.00	2,048.05	123.94	17.524	
14,900.00	7,500.00	17,046.81	9,673.00	49.90	54.74	-179.99	-3,889.38	3,090.14	2,172.00	2,046.54	125.46	17.312	
15,000.00	7,500.00	17,146.81	9,673.00	49.69	54.54	-179.99	-3,789.38	3,089.71	2,172.00	2,045.02	126.98	17.106	
15,100.00	7,500.00	17,246.81	9,673.00	49.48	54.36	-179.99	-3,689.38	3,089.27	2,172.00	2,043.50	128.49	16.904	
15,200.00	7,500.00	17,346.81	9,673.00	49.28	54.18	-179.99	-3,589.38	3,088.84	2,172.00	2,041.99	130.01	16.706	
15,300.00	7,500.00	17,446.81	9,673.00	49.09	54.00	-179.99	-3,489.39	3,088.40	2,172.00	2,040.47	131.53	16.513	
15,400.00	7,500.00	17,546.81	9,673.00	48.91	53.84	-179.99	-3,389.39	3,087.96	2,172.00	2,038.94	133.05	16.324	
15,500.00	7,500.00	17,646.81	9,673.00	48.74	53.69	-179.99	-3,289.39	3,087.53	2,172.00	2,037.42	134.57	16.140	
15,600.00	7,500.00	17,746.81	9,673.00	48.57	53.54	-179.99	-3,189.39	3,087.09	2,172.00	2,035.90	136.10	15.959	
15,700.00	7,500.00	17,846.81	9,673.00	48.42	53.40	-179.99	-3,089.39	3,086.66	2,172.00	2,034.38	137.62	15.782	
15,800.00	7,500.00	17,946.81	9,673.00	48.27	53.27	-179.99	-2,989.39	3,086.22	2,172.00	2,032.85	139.15	15.609	
15,900.00	7,500.00	18,046.81	9,673.00	48.13	53.15	-179.99	-2,889.39	3,085.79	2,172.00	2,031.32	140.67	15.440	
16,000.00	7,500.00	18,146.81	9,673.00	48.01	53.04	-179.99	-2,789.39	3,085.35	2,172.00	2,029.80	142.20	15.274	
16,100.00	7,500.00	18,246.81	9,673.00	47.89	52.94	-179.99	-2,689.39	3,084.92	2,172.00	2,028.27	143.73	15.112	
16,200.00	7,500.00	18,346.81	9,673.00	47.78	52.84	-179.99	-2,589.39	3,084.48	2,172.00	2,026.74	145.26	14.953	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,300.00	7,500.00	18,446.81	9,673.00	47.68	52.76	-179.99	-2,489.40	3,084.04	2,172.00	2,025.21	146.79	14.797	
16,400.00	7,500.00	18,546.81	9,673.00	47.59	52.69	-179.99	-2,389.40	3,083.61	2,172.00	2,023.68	148.32	14.644	
16,500.00	7,500.00	18,646.81	9,673.00	47.51	52.63	-179.99	-2,289.40	3,083.17	2,172.00	2,022.15	149.85	14.495	
16,600.00	7,500.00	18,746.81	9,673.00	47.44	52.57	-179.99	-2,189.40	3,082.74	2,172.00	2,020.62	151.38	14.348	
16,700.00	7,500.00	18,846.81	9,673.00	47.39	52.53	-179.99	-2,089.40	3,082.30	2,172.00	2,019.08	152.91	14.204	
16,800.00	7,500.00	18,946.81	9,673.00	47.34	52.50	-179.99	-1,989.40	3,081.87	2,172.00	2,017.55	154.45	14.063	
16,900.00	7,500.00	8,083.70	7,864.84	47.31	31.07	-104.10	-323.77	1,625.99	2,168.63	2,096.50	72.13	30.065	
17,000.00	7,500.00	8,081.15	7,862.35	47.29	31.06	-104.00	-323.69	1,625.46	2,097.27	2,024.43	72.84	28.793	
17,100.00	7,500.00	8,078.60	7,859.85	47.28	31.05	-103.90	-323.61	1,624.92	2,028.33	1,954.72	73.60	27.557	
17,200.00	7,500.00	8,076.03	7,857.35	47.28	31.04	-103.80	-323.53	1,624.38	1,962.05	1,887.63	74.42	26.363	
17,300.00	7,500.00	8,073.45	7,854.83	47.30	31.03	-103.70	-323.44	1,623.84	1,898.73	1,823.43	75.30	25.216	
17,400.00	7,500.00	8,070.87	7,852.30	47.33	31.02	-103.60	-323.36	1,623.29	1,838.67	1,762.44	76.22	24.122	
17,500.00	7,500.00	8,068.27	7,849.76	47.37	31.01	-103.51	-323.28	1,622.74	1,782.19	1,705.00	77.19	23.088	
17,600.00	7,500.00	8,065.66	7,847.22	47.43	31.00	-103.41	-323.19	1,622.18	1,729.64	1,651.45	78.19	22.120	
17,700.00	7,500.00	8,063.04	7,844.66	47.50	30.99	-103.30	-323.10	1,621.63	1,681.41	1,602.19	79.22	21.225	
17,800.00	7,500.00	8,060.41	7,842.09	47.59	30.98	-103.20	-323.02	1,621.06	1,637.86	1,557.61	80.25	20.409	
17,900.00	7,500.00	8,057.77	7,839.51	47.69	30.97	-103.10	-322.93	1,620.50	1,599.38	1,518.11	81.27	19.680	
18,000.00	7,500.00	8,055.12	7,836.92	47.81	30.96	-103.00	-322.85	1,619.93	1,566.34	1,484.08	82.25	19.043	
18,100.00	7,500.00	8,052.46	7,834.32	47.94	30.95	-102.90	-322.76	1,619.36	1,539.09	1,455.92	83.17	18.504	
18,200.00	7,500.00	8,049.78	7,831.71	48.08	30.94	-102.80	-322.67	1,618.78	1,517.95	1,433.94	84.01	18.069	
18,300.00	7,500.00	8,047.10	7,829.09	48.25	30.93	-102.69	-322.58	1,618.20	1,503.17	1,418.43	84.74	17.739	
18,400.00	7,500.00	8,044.40	7,826.46	48.42	30.92	-102.59	-322.49	1,617.62	1,494.95	1,409.61	85.33	17.519	
18,461.64	7,500.00	8,042.73	7,824.83	48.54	30.91	-102.53	-322.44	1,617.26	1,493.19	1,407.56	85.63	17.438	
18,462.14	7,500.00	8,042.72	7,824.82	49.47	30.91	-102.53	-322.44	1,617.26	1,493.18	1,407.55	85.63	17.437	

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Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.66	-0.46	-39.98	39.98				
100.00	100.00	100.00	100.00	0.28	0.28	-90.66	-0.46	-39.98	39.98	39.43	0.55	72.426	
200.00	200.00	200.00	200.00	0.63	0.63	-90.66	-0.46	-39.98	39.98	38.71	1.27	31.507	
300.00	300.00	300.00	300.00	0.99	0.99	-90.66	-0.46	-39.98	39.98	38.00	1.99	20.133	
400.00	400.00	400.00	400.00	1.35	1.35	-90.66	-0.46	-39.98	39.98	37.28	2.70	14.793	
500.00	500.00	500.00	500.00	1.71	1.71	-90.66	-0.46	-39.98	39.98	36.56	3.42	11.691	CC, ES
600.00	599.98	599.94	599.92	2.06	2.07	168.03	1.28	-39.98	41.71	37.58	4.13	10.108	
700.00	699.84	699.43	699.27	2.40	2.43	175.62	6.48	-39.98	47.46	42.63	4.83	9.831	
750.00	749.68	748.86	748.55	2.58	2.61	-179.85	10.34	-39.98	52.21	47.03	5.18	10.076	
800.00	799.49	798.38	797.88	2.75	2.79	-175.69	14.66	-39.98	57.81	52.27	5.53	10.448	
900.00	899.11	897.43	896.56	3.10	3.14	-169.44	23.29	-39.98	69.68	63.45	6.23	11.178	
1,000.00	998.73	996.49	995.23	3.46	3.50	-165.03	31.92	-39.98	82.14	75.20	6.94	11.839	
1,001.27	1,000.00	997.75	996.49	3.46	3.50	-164.99	32.03	-39.98	82.30	75.36	6.95	11.847	
1,100.00	1,098.18	1,098.56	1,096.98	3.81	3.86	-163.87	39.93	-38.59	95.01	87.35	7.66	12.401	
1,200.00	1,197.22	1,201.31	1,199.44	4.18	4.23	-162.94	46.02	-34.09	107.91	99.52	8.38	12.870	
1,300.00	1,295.71	1,304.58	1,302.34	4.54	4.59	-162.36	50.14	-26.45	120.69	111.59	9.10	13.264	
1,400.00	1,393.53	1,408.37	1,405.53	4.91	4.96	-162.10	52.24	-15.63	133.28	123.47	9.81	13.589	
1,414.82	1,407.97	1,423.79	1,420.85	4.97	5.01	-162.09	52.38	-13.75	135.13	125.21	9.91	13.629	
1,500.00	1,490.88	1,512.80	1,509.01	5.28	5.32	-161.73	52.30	-1.57	144.41	133.90	10.51	13.740	
1,600.00	1,588.22	1,617.93	1,612.68	5.66	5.69	-161.26	50.27	15.77	151.96	140.75	11.21	13.559	
1,700.00	1,685.56	1,723.51	1,716.13	6.04	6.06	-160.72	46.13	36.39	155.85	143.95	11.90	13.097	
1,800.00	1,782.90	1,827.25	1,817.07	6.42	6.43	-160.09	40.13	59.57	156.30	143.70	12.60	12.403	
1,900.00	1,880.24	1,927.23	1,914.17	6.80	6.80	-159.46	33.92	82.56	155.99	142.65	13.34	11.696	
2,000.00	1,977.58	2,027.22	2,011.28	7.18	7.16	-158.83	27.70	105.56	155.70	141.62	14.08	11.060	
2,100.00	2,074.91	2,127.20	2,108.38	7.57	7.53	-158.19	21.48	128.56	155.42	140.60	14.82	10.486	
2,200.00	2,172.25	2,227.19	2,205.49	7.95	7.90	-157.55	15.26	151.55	155.17	139.60	15.57	9.966	
2,300.00	2,269.59	2,327.17	2,302.59	8.34	8.27	-156.91	9.04	174.55	154.93	138.61	16.32	9.492	
2,400.00	2,366.93	2,427.16	2,399.70	8.73	8.65	-156.26	2.83	197.55	154.71	137.63	17.08	9.060	
2,500.00	2,464.27	2,527.14	2,496.80	9.11	9.03	-155.62	-3.39	220.54	154.51	136.68	17.83	8.664	
2,600.00	2,561.61	2,627.12	2,593.91	9.50	9.41	-154.97	-9.61	243.54	154.34	135.74	18.59	8.300	
2,700.00	2,658.95	2,727.11	2,691.01	9.89	9.79	-154.32	-15.83	266.54	154.18	134.82	19.36	7.966	
2,800.00	2,756.29	2,827.09	2,788.12	10.28	10.17	-153.67	-22.05	289.53	154.04	133.92	20.12	7.656	
2,900.00	2,853.63	2,927.08	2,885.22	10.67	10.55	-153.02	-28.26	312.53	153.92	133.04	20.88	7.371	
3,000.00	2,950.97	3,027.06	2,982.33	11.06	10.94	-152.37	-34.48	335.53	153.82	132.17	21.65	7.105	
3,100.00	3,048.31	3,127.05	3,079.43	11.45	11.32	-151.72	-40.70	358.52	153.74	131.33	22.42	6.859	
3,200.00	3,145.64	3,227.03	3,176.54	11.84	11.71	-151.07	-46.92	381.52	153.69	130.50	23.19	6.629	
3,300.00	3,242.98	3,327.02	3,273.64	12.23	12.09	-150.41	-53.14	404.52	153.65	129.69	23.95	6.414	
3,400.00	3,340.32	3,427.00	3,370.75	12.62	12.48	-149.76	-59.35	427.51	153.63	128.90	24.72	6.214	
3,443.55	3,382.72	3,470.55	3,413.04	12.79	12.65	-149.47	-62.06	437.53	153.63	128.57	25.06	6.130	
3,500.00	3,437.66	3,526.99	3,467.85	13.01	12.87	-149.11	-65.57	450.51	153.63	128.13	25.50	6.026	
3,600.00	3,535.00	3,626.97	3,564.96	13.40	13.26	-148.45	-71.79	473.51	153.65	127.38	26.27	5.849	
3,700.00	3,632.34	3,726.96	3,662.06	13.79	13.64	-147.80	-78.01	496.50	153.69	126.65	27.04	5.684	
3,800.00	3,729.68	3,826.94	3,759.17	14.19	14.03	-147.15	-84.23	519.50	153.75	125.94	27.81	5.528	
3,900.00	3,827.02	3,926.92	3,856.28	14.58	14.42	-146.49	-90.44	542.49	153.84	125.25	28.59	5.381	
4,000.00	3,924.36	4,026.91	3,953.38	14.97	14.81	-145.84	-96.66	565.49	153.94	124.57	29.36	5.243	
4,100.00	4,021.70	4,126.89	4,050.49	15.36	15.20	-145.19	-102.88	588.49	154.06	123.92	30.14	5.112	
4,200.00	4,119.04	4,226.88	4,147.59	15.75	15.59	-144.54	-109.10	611.48	154.20	123.29	30.91	4.988	
4,300.00	4,216.37	4,326.86	4,244.70	16.15	15.98	-143.89	-115.32	634.48	154.36	122.67	31.69	4.871	
4,400.00	4,313.71	4,426.85	4,341.80	16.54	16.38	-143.25	-121.53	657.48	154.54	122.08	32.46	4.760	
4,500.00	4,411.05	4,526.83	4,438.91	16.93	16.77	-142.60	-127.75	680.47	154.74	121.50	33.24	4.655	
4,600.00	4,508.39	4,626.82	4,536.01	17.32	17.16	-141.96	-133.97	703.47	154.96	120.94	34.02	4.555	
4,700.00	4,605.73	4,726.80	4,633.12	17.72	17.55	-141.32	-140.19	726.47	155.20	120.40	34.79	4.460	

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

Anticollision Report

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Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,703.07	4,826.79	4,730.22	18.11	17.94	-140.68	-146.41	749.46	155.46	119.88	35.57	4.370	
4,900.00	4,800.41	4,926.77	4,827.33	18.50	18.34	-140.04	-152.62	772.46	155.73	119.38	36.35	4.284	
5,000.00	4,897.75	5,026.76	4,924.43	18.90	18.73	-139.41	-158.84	795.46	156.03	118.90	37.13	4.202	
5,100.00	4,995.09	5,126.74	5,021.54	19.29	19.12	-138.77	-165.06	818.45	156.35	118.44	37.91	4.124	
5,200.00	5,092.43	5,226.73	5,118.64	19.68	19.51	-138.14	-171.28	841.45	156.68	117.99	38.69	4.050	
5,300.00	5,189.77	5,326.71	5,215.75	20.07	19.91	-137.52	-177.50	864.45	157.04	117.57	39.47	3.979	
5,400.00	5,287.10	5,426.69	5,312.85	20.47	20.30	-136.89	-183.71	887.44	157.41	117.16	40.25	3.911	
5,500.00	5,384.44	5,526.68	5,409.96	20.86	20.69	-136.27	-189.93	910.44	157.80	116.77	41.03	3.846	
5,600.00	5,481.78	5,626.66	5,507.06	21.25	21.09	-135.65	-196.15	933.44	158.21	116.40	41.81	3.784	
5,700.00	5,579.12	5,726.65	5,604.17	21.65	21.48	-135.04	-202.37	956.43	158.64	116.05	42.59	3.725	
5,800.00	5,676.46	5,826.63	5,701.27	22.04	21.87	-134.43	-208.59	979.43	159.08	115.72	43.37	3.668	
5,900.00	5,773.80	5,926.62	5,798.38	22.43	22.27	-133.82	-214.80	1,002.43	159.55	115.40	44.15	3.614	
6,000.00	5,871.14	6,026.60	5,895.48	22.83	22.66	-133.22	-221.02	1,025.42	160.03	115.10	44.93	3.562	
6,100.00	5,968.48	6,126.59	5,992.59	23.22	23.06	-132.62	-227.24	1,048.42	160.53	114.82	45.71	3.512	
6,200.00	6,065.82	6,226.57	6,089.70	23.61	23.45	-132.02	-233.46	1,071.42	161.04	114.55	46.49	3.464	
6,300.00	6,163.16	6,326.56	6,186.80	24.01	23.85	-131.43	-239.68	1,094.41	161.58	114.30	47.28	3.418	
6,400.00	6,260.50	6,426.54	6,283.91	24.40	24.24	-130.84	-245.89	1,117.41	162.13	114.07	48.06	3.374	
6,500.00	6,357.83	6,526.53	6,381.01	24.79	24.63	-130.25	-252.11	1,140.41	162.70	113.86	48.84	3.331	
6,600.00	6,455.17	6,626.51	6,478.12	25.19	25.03	-129.67	-258.33	1,163.40	163.29	113.66	49.62	3.290	
6,700.00	6,552.51	6,726.49	6,575.22	25.58	25.42	-129.10	-264.55	1,186.40	163.89	113.48	50.41	3.251	
6,800.00	6,649.85	6,826.48	6,672.33	25.98	25.82	-128.52	-270.77	1,209.39	164.51	113.32	51.19	3.214	
6,900.00	6,747.19	6,926.46	6,769.43	26.37	26.21	-127.96	-276.98	1,232.39	165.14	113.17	51.97	3.177	
7,000.00	6,844.53	7,026.45	6,866.54	26.76	26.61	-127.39	-283.20	1,255.39	165.79	113.03	52.76	3.142	
7,100.00	6,941.87	7,126.43	6,963.64	27.16	27.00	-126.83	-289.42	1,278.38	166.46	112.92	53.54	3.109	
7,115.01	6,956.48	7,141.44	6,978.22	27.22	27.06	-126.75	-290.35	1,281.84	166.56	112.90	53.66	3.104	SF
7,150.00	6,990.45	7,176.39	7,012.16	27.35	27.20	-139.64	-292.53	1,289.87	167.79	113.86	53.94	3.111	
7,200.00	7,038.53	7,226.03	7,060.37	27.55	27.40	-153.17	-295.61	1,301.29	173.02	118.69	54.34	3.184	
7,250.00	7,085.72	7,274.97	7,107.90	27.75	27.59	-161.87	-298.66	1,312.55	182.36	127.62	54.74	3.332	
7,300.00	7,131.67	7,322.84	7,154.40	27.94	27.78	-167.33	-301.63	1,323.56	195.80	140.67	55.13	3.552	
7,350.00	7,176.02	7,369.28	7,199.50	28.13	27.96	-170.80	-304.52	1,334.24	213.33	157.82	55.52	3.843	
7,400.00	7,218.44	7,413.93	7,242.86	28.32	28.14	-173.07	-307.30	1,344.51	234.87	178.99	55.89	4.203	
7,450.00	7,258.60	7,456.45	7,284.16	28.50	28.31	-174.62	-309.94	1,354.29	260.29	204.05	56.24	4.628	
7,500.00	7,296.21	7,496.53	7,323.08	28.67	28.47	-175.77	-312.44	1,363.51	289.40	232.84	56.57	5.116	
7,550.00	7,330.97	7,533.84	7,359.32	28.84	28.61	-176.70	-314.76	1,372.09	321.99	265.12	56.87	5.662	
7,600.00	7,362.62	7,568.12	7,392.61	28.99	28.75	-177.55	-316.89	1,379.97	357.79	300.65	57.15	6.261	
7,650.00	7,390.91	7,599.10	7,422.69	29.15	28.87	-178.46	-318.81	1,387.10	396.53	339.14	57.39	6.909	
7,700.00	7,415.64	7,626.54	7,449.34	29.30	28.98	-179.52	-320.52	1,393.41	437.89	380.28	57.60	7.602	
7,750.00	7,436.62	7,650.23	7,472.35	29.44	29.07	179.09	-321.99	1,398.86	481.54	423.76	57.78	8.334	
7,800.00	7,453.68	7,670.00	7,491.55	29.57	29.15	177.08	-323.22	1,403.41	527.15	469.22	57.93	9.100	
7,825.96	7,460.95	7,678.66	7,499.97	29.64	29.19	175.62	-323.76	1,405.40	551.48	493.48	58.00	9.509	
7,900.00	7,477.79	7,699.57	7,520.27	29.84	29.27	176.87	-325.06	1,410.21	622.21	564.07	58.14	10.701	
8,000.00	7,493.08	7,719.33	7,539.48	30.11	29.35	178.00	-326.28	1,414.69	719.77	661.48	58.28	12.350	
8,100.00	7,499.70	7,730.99	7,550.83	30.38	29.39	178.62	-326.97	1,417.28	818.89	760.53	58.37	14.030	
8,125.95	7,499.99	7,732.71	7,552.50	30.45	29.40	178.61	-327.08	1,417.66	844.78	786.40	58.38	14.471	
8,200.00	7,499.99	7,736.82	7,556.50	30.65	29.41	179.62	-327.32	1,418.55	918.68	860.27	58.41	15.728	
8,300.00	7,499.99	7,742.29	7,561.83	30.94	29.44	-179.25	-327.64	1,419.74	1,018.49	960.04	58.45	17.425	
8,400.00	7,499.99	7,747.67	7,567.08	31.24	29.46	-178.32	-327.95	1,420.90	1,118.31	1,059.82	58.49	19.118	
8,500.00	7,499.99	7,752.96	7,572.24	31.56	29.48	-177.54	-328.26	1,422.03	1,218.13	1,159.60	58.54	20.810	
8,600.00	7,500.00	10,015.52	8,796.00	31.88	35.98	-176.88	-1,643.93	1,495.71	1,297.94	1,261.79	36.14	35.910	
8,700.00	7,500.00	10,115.52	8,796.00	32.22	36.29	-176.88	-1,743.93	1,496.15	1,297.93	1,260.82	37.12	34.968	
8,800.00	7,500.00	10,215.52	8,796.00	32.58	36.61	-176.88	-1,843.93	1,496.59	1,297.93	1,259.80	38.13	34.039	
8,900.00	7,500.00	10,315.52	8,796.00	32.94	36.93	-176.88	-1,943.93	1,497.03	1,297.93	1,258.75	39.18	33.127	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	10,415.52	8,796.00	33.32	37.27	-176.88	-2,043.93	1,497.47	1,297.93	1,257.67	40.26	32.235	
9,100.00	7,500.00	10,515.52	8,796.00	33.71	37.62	-176.88	-2,143.93	1,497.91	1,297.93	1,256.55	41.38	31.367	
9,200.00	7,500.00	10,615.52	8,796.00	34.11	37.98	-176.88	-2,243.93	1,498.35	1,297.93	1,255.41	42.52	30.523	
9,300.00	7,500.00	10,715.52	8,796.00	34.52	38.35	-176.88	-2,343.93	1,498.80	1,297.93	1,254.24	43.69	29.706	
9,400.00	7,500.00	10,815.52	8,796.00	34.94	38.74	-176.88	-2,443.93	1,499.24	1,297.93	1,253.04	44.89	28.916	
9,500.00	7,500.00	10,915.52	8,796.00	35.37	39.13	-176.88	-2,543.92	1,499.68	1,297.93	1,251.82	46.10	28.152	
9,600.00	7,500.00	11,015.52	8,796.00	35.81	39.53	-176.88	-2,643.92	1,500.12	1,297.92	1,250.58	47.34	27.417	
9,700.00	7,500.00	11,115.52	8,796.00	36.26	39.94	-176.88	-2,743.92	1,500.56	1,297.92	1,249.33	48.60	26.708	
9,800.00	7,500.00	11,215.52	8,796.00	36.73	40.36	-176.88	-2,843.92	1,501.00	1,297.92	1,248.05	49.87	26.025	
9,900.00	7,500.00	11,315.52	8,796.00	37.20	40.79	-176.88	-2,943.92	1,501.44	1,297.92	1,246.76	51.16	25.369	
10,000.00	7,500.00	11,415.52	8,796.00	37.68	41.23	-176.89	-3,043.92	1,501.88	1,297.92	1,245.45	52.47	24.738	
10,100.00	7,500.00	11,515.52	8,796.00	38.17	41.68	-176.89	-3,143.92	1,502.33	1,297.92	1,244.13	53.79	24.131	
10,200.00	7,500.00	11,615.52	8,796.00	38.66	42.14	-176.89	-3,243.92	1,502.77	1,297.92	1,242.80	55.12	23.547	
10,300.00	7,500.00	11,715.52	8,796.00	39.17	42.60	-176.89	-3,343.92	1,503.21	1,297.92	1,241.45	56.46	22.986	
10,400.00	7,500.00	11,815.52	8,796.00	39.68	43.08	-176.89	-3,443.92	1,503.65	1,297.92	1,240.10	57.82	22.447	
10,500.00	7,500.00	11,915.52	8,796.00	40.20	43.56	-176.89	-3,543.91	1,504.09	1,297.92	1,238.73	59.19	21.929	
10,600.00	7,500.00	12,015.52	8,796.00	40.73	44.05	-176.89	-3,643.91	1,504.53	1,297.91	1,237.35	60.56	21.431	
10,700.00	7,500.00	12,115.52	8,796.00	41.26	44.54	-176.89	-3,743.91	1,504.97	1,297.91	1,235.96	61.95	20.951	
10,800.00	7,500.00	12,215.52	8,796.00	41.80	45.04	-176.89	-3,843.91	1,505.42	1,297.91	1,234.57	63.34	20.490	
10,900.00	7,500.00	12,315.52	8,796.00	42.35	45.55	-176.89	-3,943.91	1,505.86	1,297.91	1,233.17	64.75	20.046	
11,000.00	7,500.00	12,415.52	8,796.00	42.91	46.07	-176.89	-4,043.91	1,506.30	1,297.91	1,231.75	66.15	19.619	
11,100.00	7,500.00	12,515.52	8,796.00	43.47	46.59	-176.89	-4,143.91	1,506.74	1,297.91	1,230.34	67.57	19.208	
11,200.00	7,500.00	12,615.52	8,796.00	44.03	47.12	-176.89	-4,243.91	1,507.18	1,297.91	1,228.91	68.99	18.812	
11,300.00	7,500.00	12,715.52	8,796.00	44.61	47.66	-176.89	-4,343.91	1,507.62	1,297.91	1,227.48	70.42	18.430	
11,400.00	7,500.00	12,815.52	8,796.00	45.18	48.20	-176.90	-4,443.91	1,508.06	1,297.91	1,226.05	71.86	18.062	
11,500.00	7,500.00	12,915.52	8,796.00	45.77	48.75	-176.90	-4,543.90	1,508.50	1,297.90	1,224.60	73.30	17.707	
11,581.32	7,500.00	12,996.84	8,796.00	46.24	49.20	-176.90	-4,625.22	1,508.86	1,297.90	1,223.43	74.47	17.427	
11,600.00	7,500.00	13,015.52	8,796.00	46.35	49.30	-176.91	-4,643.90	1,508.95	1,297.89	1,223.14	74.75	17.363	
11,650.00	7,500.00	13,065.44	8,796.00	46.65	49.58	-177.03	-4,693.82	1,509.17	1,297.75	1,222.23	75.52	17.183	
11,700.00	7,500.00	13,115.11	8,796.00	46.96	49.86	-177.30	-4,743.49	1,509.39	1,297.47	1,221.11	76.36	16.992	
11,750.00	7,500.00	13,164.34	8,796.00	47.27	50.14	-177.71	-4,792.72	1,509.60	1,297.08	1,219.84	77.25	16.791	
11,800.00	7,500.00	13,212.72	8,796.00	47.59	50.41	-178.23	-4,841.10	1,509.83	1,296.66	1,218.47	78.19	16.583	
11,850.00	7,500.00	13,258.51	8,796.00	47.91	50.67	-178.76	-4,886.83	1,512.01	1,296.32	1,217.17	79.16	16.377	
11,900.00	7,500.00	13,305.35	8,796.00	48.23	50.95	-179.26	-4,933.30	1,517.76	1,296.11	1,216.01	80.10	16.180	
11,950.00	7,500.00	13,353.23	8,796.00	48.56	51.24	-179.73	-4,980.21	1,527.30	1,296.01	1,214.98	81.03	15.993	
11,980.14	7,500.00	13,382.58	8,796.00	48.75	51.42	180.00	-5,008.55	1,534.95	1,296.00	1,214.42	81.58	15.886	
12,000.00	7,500.00	13,402.12	8,796.00	48.88	51.54	179.83	-5,027.19	1,540.78	1,296.01	1,214.06	81.94	15.816	
12,050.00	7,500.00	13,451.98	8,796.00	49.20	51.84	179.43	-5,073.84	1,558.35	1,296.06	1,213.24	82.82	15.649	
12,100.00	7,500.00	13,502.75	8,796.00	49.52	52.16	179.08	-5,119.71	1,580.06	1,296.17	1,212.50	83.67	15.491	
12,150.00	7,500.00	13,554.34	8,796.00	49.83	52.47	178.78	-5,164.32	1,605.94	1,296.30	1,211.81	84.49	15.343	
12,200.00	7,500.00	13,606.65	8,796.00	50.14	52.79	178.52	-5,207.17	1,635.92	1,296.44	1,211.16	85.28	15.203	
12,250.00	7,500.00	13,659.55	8,796.00	50.44	53.10	178.32	-5,247.75	1,669.84	1,296.56	1,210.52	86.03	15.070	
12,300.00	7,500.00	13,712.91	8,796.00	50.74	53.40	178.18	-5,285.56	1,707.47	1,296.65	1,209.89	86.76	14.945	
12,350.00	7,500.00	13,766.58	8,796.00	51.02	53.69	178.10	-5,320.14	1,748.49	1,296.71	1,209.24	87.47	14.825	
12,400.00	7,500.00	13,820.38	8,796.00	51.30	53.97	178.08	-5,351.07	1,792.49	1,296.73	1,208.57	88.16	14.709	
12,450.00	7,500.00	13,874.16	8,796.00	51.56	54.23	178.12	-5,378.02	1,839.02	1,296.70	1,207.86	88.84	14.596	
12,500.00	7,500.00	13,927.75	8,796.00	51.81	54.47	178.22	-5,400.71	1,887.54	1,296.63	1,207.11	89.52	14.484	
12,550.00	7,500.00	13,980.99	8,796.00	52.05	54.68	178.38	-5,418.97	1,937.53	1,296.52	1,206.31	90.21	14.373	
12,600.00	7,500.00	14,033.72	8,796.00	52.27	54.87	178.60	-5,432.71	1,988.42	1,296.39	1,205.48	90.91	14.261	
12,650.00	7,500.00	14,085.81	8,796.00	52.48	55.03	178.87	-5,441.94	2,039.68	1,296.26	1,204.63	91.63	14.147	
12,700.00	7,500.00	14,137.15	8,796.00	52.67	55.17	179.19	-5,446.75	2,090.77	1,296.13	1,203.76	92.37	14.032	
12,750.00	7,500.00	14,187.64	8,796.00	52.84	55.28	179.56	-5,447.29	2,141.25	1,296.04	1,202.89	93.14	13.914	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,800.00	7,500.00	14,237.20	8,796.00	53.00	55.37	179.96	-5,443.78	2,190.67	1,296.00	1,202.05	93.94	13.795	
12,804.16	7,500.00	14,241.27	8,796.00	53.01	55.37	-180.00	-5,443.31	2,194.72	1,296.00	1,201.99	94.01	13.786	
12,850.00	7,500.00	14,285.77	8,796.00	53.14	55.43	-179.59	-5,436.48	2,238.68	1,296.03	1,201.26	94.77	13.675	
12,900.00	7,500.00	14,333.33	8,796.00	53.27	55.47	-179.11	-5,425.67	2,284.97	1,296.16	1,200.54	95.63	13.554	
12,950.00	7,500.00	14,379.83	8,796.00	53.37	55.49	-178.60	-5,411.65	2,329.31	1,296.41	1,199.90	96.51	13.433	
13,000.00	7,500.00	14,425.29	8,796.00	53.46	55.48	-178.06	-5,394.74	2,371.50	1,296.80	1,199.38	97.41	13.312	
13,050.00	7,500.00	14,469.71	8,796.00	53.53	55.47	-177.50	-5,375.25	2,411.39	1,297.33	1,199.00	98.33	13.193	
13,100.00	7,500.00	14,513.10	8,796.00	53.58	55.43	-176.92	-5,353.46	2,448.91	1,298.03	1,198.76	99.27	13.076	
13,150.00	7,500.00	14,555.50	8,796.00	53.62	55.39	-176.33	-5,329.66	2,483.98	1,298.91	1,198.69	100.22	12.960	
13,200.00	7,500.00	14,600.00	8,796.00	53.63	55.33	-175.68	-5,302.13	2,518.94	1,299.98	1,198.82	101.16	12.850	
13,250.00	7,500.00	14,637.42	8,796.00	53.63	55.27	-175.10	-5,277.07	2,546.72	1,301.23	1,199.09	102.14	12.740	
13,300.00	7,500.00	14,677.04	8,796.00	53.62	55.19	-174.47	-5,248.75	2,574.41	1,302.68	1,199.58	103.11	12.634	
13,350.00	7,500.00	14,715.80	8,796.00	53.58	55.11	-173.84	-5,219.36	2,599.67	1,304.32	1,200.25	104.07	12.533	
13,400.00	7,500.00	14,750.00	8,796.00	53.54	55.04	-173.25	-5,192.15	2,620.38	1,306.16	1,201.13	105.03	12.436	
13,450.00	7,500.00	14,790.97	8,796.00	53.48	54.94	-172.56	-5,158.09	2,643.15	1,308.17	1,202.19	105.98	12.344	
13,500.00	7,500.00	14,827.46	8,796.00	53.40	54.85	-171.92	-5,126.53	2,661.46	1,310.36	1,203.45	106.92	12.256	
13,550.00	7,500.00	14,863.29	8,796.00	53.32	54.75	-171.28	-5,094.55	2,677.59	1,312.72	1,204.88	107.84	12.173	
13,600.00	7,500.00	14,900.00	8,796.00	53.22	54.65	-170.62	-5,060.85	2,692.15	1,315.23	1,206.48	108.76	12.093	
13,650.00	7,500.00	14,933.07	8,796.00	53.12	54.56	-170.01	-5,029.80	2,703.51	1,317.88	1,208.24	109.64	12.020	
13,700.00	7,500.00	14,967.12	8,796.00	53.00	54.46	-169.39	-4,997.24	2,713.45	1,320.65	1,210.14	110.51	11.950	
13,750.00	7,500.00	15,000.00	8,796.00	52.88	54.37	-168.79	-4,965.32	2,721.31	1,323.53	1,212.18	111.36	11.885	
13,800.00	7,500.00	15,033.70	8,796.00	52.75	54.27	-168.17	-4,932.21	2,727.58	1,326.50	1,214.32	112.18	11.825	
13,850.00	7,500.00	15,066.30	8,796.00	52.61	54.18	-167.58	-4,899.90	2,731.90	1,329.55	1,216.58	112.97	11.769	
13,900.00	7,500.00	15,099.11	8,796.00	52.48	54.08	-167.00	-4,867.20	2,734.51	1,332.64	1,218.91	113.73	11.717	
13,950.00	7,500.00	15,141.89	8,796.00	52.33	53.96	-166.36	-4,824.46	2,736.46	1,335.55	1,221.02	114.53	11.661	
14,000.00	7,500.00	15,185.83	8,796.00	52.19	53.84	-165.83	-4,780.54	2,737.79	1,338.03	1,222.72	115.31	11.604	
14,050.00	7,500.00	15,230.01	8,796.00	52.05	53.72	-165.40	-4,736.37	2,738.45	1,340.00	1,223.95	116.05	11.547	
14,100.00	7,500.00	15,275.74	8,796.00	51.90	53.60	-165.10	-4,690.64	2,738.44	1,341.44	1,224.66	116.77	11.488	
14,105.32	7,500.00	15,281.04	8,796.00	51.89	53.58	-165.07	-4,685.34	2,738.42	1,341.55	1,224.70	116.85	11.481	
14,200.00	7,500.00	15,375.53	8,796.00	51.63	53.34	-164.80	-4,590.85	2,738.02	1,343.11	1,224.88	118.23	11.360	
14,300.00	7,500.00	15,475.48	8,796.00	51.35	53.08	-164.66	-4,490.90	2,737.59	1,343.88	1,224.22	119.66	11.231	
14,333.98	7,500.00	15,509.46	8,796.00	51.26	53.00	-164.65	-4,456.93	2,737.44	1,343.93	1,223.79	120.13	11.187	
14,400.00	7,500.00	15,575.48	8,796.00	51.09	52.84	-164.65	-4,390.90	2,737.16	1,343.93	1,222.87	121.06	11.101	
14,500.00	7,500.00	15,675.48	8,796.00	50.84	52.60	-164.65	-4,290.90	2,736.73	1,343.92	1,221.46	122.47	10.974	
14,600.00	7,500.00	15,775.48	8,796.00	50.59	52.37	-164.65	-4,190.91	2,736.30	1,343.92	1,220.05	123.87	10.849	
14,700.00	7,500.00	15,875.48	8,796.00	50.35	52.15	-164.65	-4,090.91	2,735.87	1,343.92	1,218.63	125.29	10.727	
14,800.00	7,500.00	15,975.48	8,796.00	50.12	51.94	-164.65	-3,990.91	2,735.44	1,343.91	1,217.21	126.70	10.607	
14,900.00	7,500.00	16,075.48	8,796.00	49.90	51.73	-164.65	-3,890.91	2,735.01	1,343.91	1,215.79	128.12	10.489	
15,000.00	7,500.00	16,175.48	8,796.00	49.69	51.54	-164.65	-3,790.91	2,734.58	1,343.91	1,214.36	129.55	10.374	
15,100.00	7,500.00	16,275.48	8,796.00	49.48	51.35	-164.66	-3,690.91	2,734.15	1,343.90	1,212.93	130.97	10.261	
15,200.00	7,500.00	16,375.48	8,796.00	49.28	51.17	-164.66	-3,590.91	2,733.72	1,343.90	1,211.50	132.40	10.150	
15,300.00	7,500.00	16,475.48	8,796.00	49.09	51.00	-164.66	-3,490.91	2,733.29	1,343.90	1,210.06	133.84	10.041	
15,400.00	7,500.00	16,575.48	8,796.00	48.91	50.84	-164.66	-3,390.91	2,732.86	1,343.89	1,208.62	135.27	9.935	
15,500.00	7,500.00	16,675.48	8,796.00	48.74	50.69	-164.66	-3,290.91	2,732.43	1,343.89	1,207.18	136.71	9.830	
15,600.00	7,500.00	16,775.48	8,796.00	48.57	50.55	-164.66	-3,190.91	2,732.00	1,343.89	1,205.73	138.16	9.727	
15,700.00	7,500.00	16,875.48	8,796.00	48.42	50.42	-164.66	-3,090.92	2,731.57	1,343.88	1,204.28	139.60	9.627	
15,800.00	7,500.00	16,975.48	8,796.00	48.27	50.29	-164.66	-2,990.92	2,731.14	1,343.88	1,202.83	141.05	9.528	
15,900.00	7,500.00	17,075.48	8,796.00	48.13	50.18	-164.66	-2,890.92	2,730.71	1,343.88	1,201.38	142.50	9.431	
16,000.00	7,500.00	17,175.48	8,796.00	48.01	50.08	-164.66	-2,790.92	2,730.28	1,343.87	1,199.93	143.95	9.336	
16,100.00	7,500.00	17,275.48	8,796.00	47.89	49.99	-164.66	-2,690.92	2,729.85	1,343.87	1,198.47	145.40	9.242	
16,200.00	7,500.00	17,375.48	8,796.00	47.78	49.91	-164.66	-2,590.92	2,729.42	1,343.87	1,197.01	146.86	9.151	
16,300.00	7,500.00	17,475.48	8,796.00	47.68	49.83	-164.66	-2,490.92	2,728.99	1,343.87	1,195.55	148.32	9.061	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

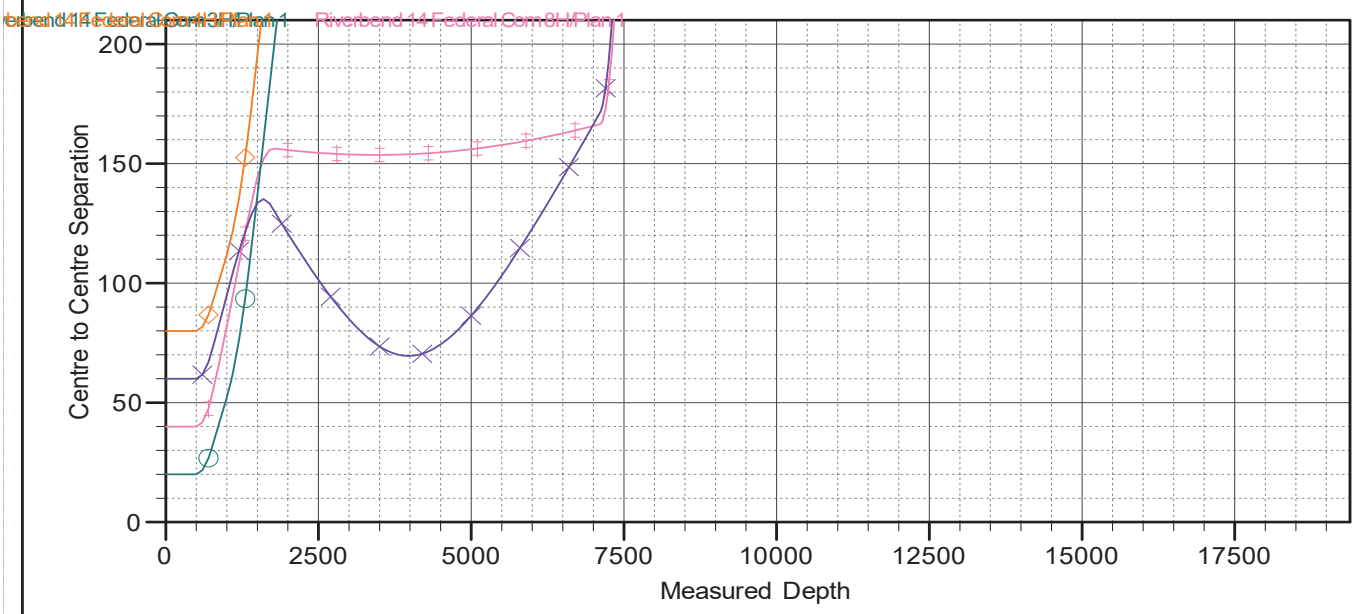
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,400.00	7,500.00	17,575.48	8,796.00	47.59	49.77	-164.66	-2,390.92	2,728.56	1,343.86	1,194.08	149.78	8.972	
16,500.00	7,500.00	17,675.48	8,796.00	47.51	49.73	-164.66	-2,290.92	2,728.13	1,343.86	1,192.61	151.24	8.885	
16,600.00	7,500.00	17,775.48	8,796.00	47.44	49.69	-164.66	-2,190.92	2,727.70	1,343.86	1,191.14	152.71	8.800	
16,700.00	7,500.00	17,875.48	8,796.00	47.39	49.66	-164.66	-2,090.93	2,727.27	1,343.85	1,189.67	154.18	8.716	
16,800.00	7,500.00	17,975.48	8,796.00	47.34	49.65	-164.66	-1,990.93	2,726.84	1,343.85	1,188.20	155.65	8.634	
16,900.00	7,500.00	18,075.48	8,796.00	47.31	49.65	-164.66	-1,890.93	2,726.41	1,343.85	1,186.73	157.12	8.553	
17,000.00	7,500.00	18,175.48	8,796.00	47.29	49.66	-164.67	-1,790.93	2,725.98	1,343.84	1,185.25	158.59	8.474	
17,100.00	7,500.00	18,275.48	8,796.00	47.28	49.68	-164.67	-1,690.93	2,725.55	1,343.84	1,183.77	160.07	8.395	
17,200.00	7,500.00	18,375.48	8,796.00	47.28	49.72	-164.67	-1,590.93	2,725.12	1,343.84	1,182.29	161.55	8.319	
17,300.00	7,500.00	18,475.48	8,796.00	47.30	49.77	-164.67	-1,490.93	2,724.69	1,343.83	1,180.81	163.02	8.243	
17,400.00	7,500.00	18,575.48	8,796.00	47.33	49.83	-164.67	-1,390.93	2,724.26	1,343.83	1,179.33	164.50	8.169	
17,500.00	7,500.00	18,675.48	8,796.00	47.37	49.90	-164.67	-1,290.93	2,723.83	1,343.83	1,177.84	165.99	8.096	
17,600.00	7,500.00	18,775.48	8,796.00	47.43	49.99	-164.67	-1,190.93	2,723.40	1,343.82	1,176.35	167.47	8.024	
17,700.00	7,500.00	18,875.48	8,796.00	47.50	50.09	-164.67	-1,090.93	2,722.97	1,343.82	1,174.87	168.95	7.954	
17,800.00	7,500.00	18,975.48	8,796.00	47.59	50.21	-164.67	-990.94	2,722.54	1,343.82	1,173.38	170.44	7.884	
17,900.00	7,500.00	19,075.48	8,796.00	47.69	50.34	-164.67	-890.94	2,722.11	1,343.81	1,171.88	171.93	7.816	
18,000.00	7,500.00	19,175.48	8,796.00	47.81	50.48	-164.67	-790.94	2,721.68	1,343.81	1,170.39	173.42	7.749	
18,100.00	7,500.00	19,275.48	8,796.00	47.94	50.63	-164.67	-690.94	2,721.25	1,343.81	1,168.90	174.91	7.683	
18,200.00	7,500.00	19,375.48	8,796.00	48.08	50.80	-164.67	-590.94	2,720.82	1,343.80	1,167.40	176.40	7.618	
18,300.00	7,500.00	19,475.48	8,796.00	48.25	50.99	-164.67	-490.94	2,720.39	1,343.80	1,165.91	177.89	7.554	
18,400.00	7,500.00	19,575.48	8,796.00	48.42	51.18	-164.67	-390.94	2,719.96	1,343.80	1,164.41	179.39	7.491	
18,458.97	7,500.00	19,634.41	8,796.00	48.53	51.30	-164.67	-332.01	2,719.71	1,343.80	1,163.52	180.27	7.454	
18,461.64	7,500.00	19,634.41	8,796.00	48.54	51.30	-164.67	-332.01	2,719.71	1,343.80	1,163.53	180.27	7.454	
18,462.14	7,500.00	19,634.41	8,796.00	49.47	51.30	-164.67	-332.01	2,719.71	1,343.80	1,163.53	180.27	7.454	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to 2935' GL + 23 @ 2958.00usft (Cacuts 15	Coordinates are relative to: Riverbend 14 Federal Com 1H
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°

Ladder Plot



LEGEND

Riverbend 14 Federal Com 8H, OH, Plan 1 V0	Riverbend 14 Federal Com 7H, OH, Plan 1 V0	Riverbend 11-14 Fed Com 16H, OH, Svy V0
Hoss 2-11 W1AP Fed Com #2H, OH, Svy V0	Malaga 13 DM Fed Com 1H, OH, Svy V0	Riverbend 11-14 Fed Com 15H, OH, Svy V0
Riverbend 14 Federal Com 3H, OH, Plan 1 V0	Riverbend 14 Fed 2H, OH, OH Svy V0	Riverbend 11-14 Fed Com 17H, OH, Svy V0
Riverbend 14 Federal Com 4H, OH, Plan 1 V0	Riverbend 14 Fed 2H, ST01, ST01 Svy V0	Riverbend 11-14 Fed Com 7H, OH, Svy V0

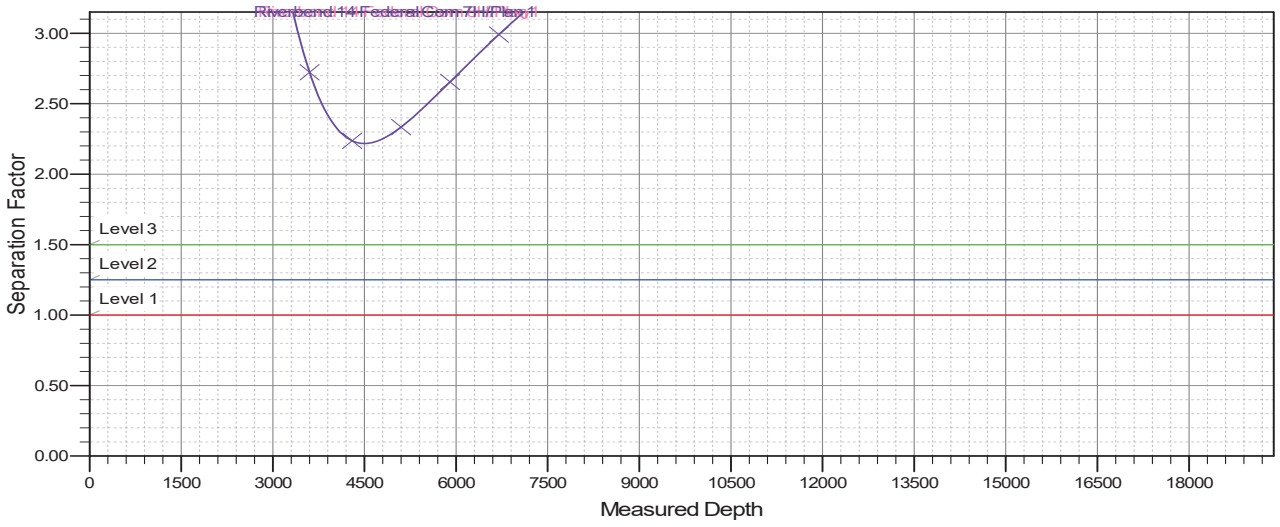
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to 2935' GL + 23 @ 2958.00usft (Cacuts 15
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Riverbend 14 Federal Com 1H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.15°

Separation Factor Plot



LEGEND

- Riverbend 14 Federal Com 8H, OH, Plan 1 V0
- Hoss 2-11 W1AP Fed Com #2H, OH, Svy V0
- Riverbend 14 Federal Com 3H, OH, Plan 1 V0
- Riverbend 14 Federal Com 4H, OH, Plan 1 V0
- Riverbend 14 Federal Com 7H, OH, Plan 1 V0
- Malaga 13 DM Fed Com 1H, OH, Svy V0
- Riverbend 14 Fed 2H, OH, OH Svy V0
- Riverbend 14 Fed 2H, ST01, ST01 Svy V0
- Riverbend 11-14 Fed Com 16H, OH, Svy V0
- Riverbend 11-14 Fed Com 15H, OH, Svy V0
- Riverbend 11-14 Fed Com 17H, OH, Svy V0
- Riverbend 11-14 Fed Com 7H, OH, Svy V0

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

WELL INFO	
MAP DATUM	North American Datum 1983
MAP SYSTEM	US State Plane 1983
MAP ZONE	New Mexico Eastern Zone
WELL LAT	32.138126
WELL LON	-104.060432
WELL EW MAI	625806.83
WELL NS MAP	414092.97
CONVERGENC	0.15
MAGMODEL	HDGM2025
DECLINATION	6.43
NORTH REF	Grid
GROUND ELE\	2935
KB ELEVN	2958
VS AZI	179.75

SURVEY PROGRAM

1 0.00 - 18461.63 PLAN 1 : MWD+IFR1+MS

SURVEY LIST

Measured De	Inclination	Azimuth	Course Length	True Vertical I	SubSea TVD	Local N/-S
MD	INC	AZI	CL	TVD	SSTVD	NS
0.00	0.00	0.00	0.00	0.00	2958.00	0.00
100.00	0.00	0.00	100.00	100.00	2858.00	0.00
200.00	0.00	0.00	100.00	200.00	2758.00	0.00
300.00	0.00	0.00	100.00	300.00	2658.00	0.00
400.00	0.00	0.00	100.00	400.00	2558.00	0.00
500.00	0.00	0.00	100.00	500.00	2458.00	0.00
600.00	2.00	104.32	100.00	599.98	2358.02	-0.43
700.00	4.00	104.32	100.00	699.84	2258.16	-1.73
750.00	5.00	104.32	50.00	749.68	2208.32	-2.70
800.00	5.00	104.32	50.00	799.49	2158.51	-3.77
900.00	5.00	104.32	100.00	899.11	2058.89	-5.93
1001.27	5.00	104.32	101.27	1000.00	1958.00	-8.11
1100.00	6.96	106.33	98.73	1098.18	1859.82	-10.86
1200.00	8.96	107.47	100.00	1197.22	1760.78	-14.90

1300.00	10.95	108.20	100.00	1295.71	1662.30	-20.21
1400.00	12.95	108.70	100.00	1393.53	1564.47	-26.77
1414.82	13.25	108.76	14.82	1407.97	1550.03	-27.85
1500.00	13.25	108.76	85.18	1490.88	1467.12	-34.12
1600.00	13.25	108.76	100.00	1588.22	1369.78	-41.50
1700.00	13.25	108.76	100.00	1685.56	1272.44	-48.87
1800.00	13.25	108.76	100.00	1782.90	1175.10	-56.24
1900.00	13.25	108.76	100.00	1880.24	1077.76	-63.61
2000.00	13.25	108.76	100.00	1977.58	980.43	-70.98
2100.00	13.25	108.76	100.00	2074.92	883.09	-78.35
2200.00	13.25	108.76	100.00	2172.25	785.75	-85.72
2300.00	13.25	108.76	100.00	2269.59	688.41	-93.09
2400.00	13.25	108.76	100.00	2366.93	591.07	-100.46
2500.00	13.25	108.76	100.00	2464.27	493.73	-107.83
2600.00	13.25	108.76	100.00	2561.61	396.39	-115.20
2700.00	13.25	108.76	100.00	2658.95	299.05	-122.58
2800.00	13.25	108.76	100.00	2756.29	201.71	-129.95
2900.00	13.25	108.76	100.00	2853.63	104.37	-137.32
3000.00	13.25	108.76	100.00	2950.97	7.03	-144.69
3100.00	13.25	108.76	100.00	3048.31	-90.31	-152.06
3200.00	13.25	108.76	100.00	3145.65	-187.65	-159.43
3300.00	13.25	108.76	100.00	3242.98	-284.98	-166.80
3400.00	13.25	108.76	100.00	3340.32	-382.32	-174.17
3500.00	13.25	108.76	100.00	3437.66	-479.66	-181.54
3600.00	13.25	108.76	100.00	3535.00	-577.00	-188.91
3700.00	13.25	108.76	100.00	3632.34	-674.34	-196.28
3800.00	13.25	108.76	100.00	3729.68	-771.68	-203.65
3900.00	13.25	108.76	100.00	3827.02	-869.02	-211.03
4000.00	13.25	108.76	100.00	3924.36	-966.36	-218.40
4100.00	13.25	108.76	100.00	4021.70	-1063.70	-225.77
4200.00	13.25	108.76	100.00	4119.04	-1161.04	-233.14
4300.00	13.25	108.76	100.00	4216.38	-1258.38	-240.51
4400.00	13.25	108.76	100.00	4313.71	-1355.71	-247.88
4500.00	13.25	108.76	100.00	4411.05	-1453.05	-255.25
4600.00	13.25	108.76	100.00	4508.39	-1550.39	-262.62
4700.00	13.25	108.76	100.00	4605.73	-1647.73	-269.99
4800.00	13.25	108.76	100.00	4703.07	-1745.07	-277.36
4900.00	13.25	108.76	100.00	4800.41	-1842.41	-284.73
5000.00	13.25	108.76	100.00	4897.75	-1939.75	-292.11
5100.00	13.25	108.76	100.00	4995.09	-2037.09	-299.48
5200.00	13.25	108.76	100.00	5092.43	-2134.43	-306.85
5300.00	13.25	108.76	100.00	5189.77	-2231.77	-314.22
5400.00	13.25	108.76	100.00	5287.11	-2329.11	-321.59
5500.00	13.25	108.76	100.00	5384.44	-2426.44	-328.96

5600.00	13.25	108.76	100.00	5481.78	-2523.78	-336.33
5700.00	13.25	108.76	100.00	5579.12	-2621.12	-343.70
5800.00	13.25	108.76	100.00	5676.46	-2718.46	-351.07
5900.00	13.25	108.76	100.00	5773.80	-2815.80	-358.44
6000.00	13.25	108.76	100.00	5871.14	-2913.14	-365.81
6100.00	13.25	108.76	100.00	5968.48	-3010.48	-373.19
6200.00	13.25	108.76	100.00	6065.82	-3107.82	-380.56
6300.00	13.25	108.76	100.00	6163.16	-3205.16	-387.93
6400.00	13.25	108.76	100.00	6260.50	-3302.50	-395.30
6500.00	13.25	108.76	100.00	6357.84	-3399.84	-402.67
6600.00	13.25	108.76	100.00	6455.17	-3497.17	-410.04
6700.00	13.25	108.76	100.00	6552.51	-3594.51	-417.41
6800.00	13.25	108.76	100.00	6649.85	-3691.85	-424.78
6900.00	13.25	108.76	100.00	6747.19	-3789.19	-432.15
7000.00	13.25	108.76	100.00	6844.53	-3886.53	-439.52
7100.00	13.25	108.76	100.00	6941.87	-3983.87	-446.89
7115.01	13.25	108.76	15.01	6956.48	-3998.48	-448.00
7150.00	14.55	122.33	34.99	6990.45	-4032.45	-451.64
7200.00	17.47	137.14	50.00	7038.53	-4080.53	-460.51
7250.00	21.17	147.38	50.00	7085.72	-4127.72	-473.62
7300.00	25.29	154.56	50.00	7131.67	-4173.67	-490.88
7350.00	29.68	159.79	50.00	7176.02	-4218.02	-512.16
7400.00	34.22	163.76	50.00	7218.44	-4260.44	-537.28
7450.00	38.86	166.89	50.00	7258.60	-4300.60	-566.08
7500.00	43.57	169.45	50.00	7296.21	-4338.21	-598.31
7550.00	48.32	171.59	50.00	7330.97	-4372.97	-633.74
7600.00	53.11	173.44	50.00	7362.62	-4404.62	-672.11
7650.00	57.93	175.07	50.00	7390.92	-4432.92	-713.10
7700.00	62.77	176.54	50.00	7415.65	-4457.65	-756.43
7750.00	67.62	177.88	50.00	7436.62	-4478.62	-801.74
7800.00	72.47	179.14	50.00	7453.68	-4495.68	-848.71
7825.96	75.00	179.76	25.96	7460.95	-4502.95	-873.62
7900.00	78.70	179.75	74.04	7477.79	-4519.79	-945.71
8000.00	83.70	179.75	100.00	7493.08	-4535.08	-1044.51
8100.00	88.70	179.74	100.00	7499.70	-4541.70	-1144.25
8125.95	90.00	179.74	25.95	7499.99	-4541.99	-1170.20
8200.00	90.00	179.74	74.05	7499.99	-4541.99	-1244.25
8300.00	90.00	179.74	100.00	7499.99	-4541.99	-1344.25
8400.00	90.00	179.74	100.00	7499.99	-4541.99	-1444.25
8500.00	90.00	179.74	100.00	7500.00	-4542.00	-1544.25
8600.00	90.00	179.74	100.00	7500.00	-4542.00	-1644.25
8700.00	90.00	179.74	100.00	7500.00	-4542.00	-1744.24
8800.00	90.00	179.74	100.00	7500.00	-4542.00	-1844.24
8900.00	90.00	179.74	100.00	7500.00	-4542.00	-1944.24

9000.00	90.00	179.74	100.00	7500.00	-4542.00	-2044.24
9100.00	90.00	179.74	100.00	7500.00	-4542.00	-2144.24
9200.00	90.00	179.74	100.00	7500.00	-4542.00	-2244.24
9300.00	90.00	179.74	100.00	7500.00	-4542.00	-2344.24
9400.00	90.00	179.74	100.00	7500.00	-4542.00	-2444.24
9500.00	90.00	179.74	100.00	7500.00	-4542.00	-2544.24
9600.00	90.00	179.74	100.00	7500.00	-4542.00	-2644.23
9700.00	90.00	179.74	100.00	7500.00	-4542.00	-2744.23
9800.00	90.00	179.74	100.00	7500.00	-4542.00	-2844.23
9900.00	90.00	179.74	100.00	7500.00	-4542.00	-2944.23
10000.00	90.00	179.74	100.00	7500.00	-4542.00	-3044.23
10100.00	90.00	179.74	100.00	7500.00	-4542.00	-3144.23
10200.00	90.00	179.74	100.00	7500.00	-4542.00	-3244.23
10300.00	90.00	179.74	100.00	7500.00	-4542.00	-3344.23
10400.00	90.00	179.74	100.00	7500.00	-4542.00	-3444.23
10500.00	90.00	179.74	100.00	7500.00	-4542.00	-3544.23
10600.00	90.00	179.74	100.00	7500.00	-4542.00	-3644.22
10700.00	90.00	179.74	100.00	7500.00	-4542.00	-3744.22
10800.00	90.00	179.74	100.00	7500.00	-4542.00	-3844.22
10900.00	90.00	179.74	100.00	7500.00	-4542.00	-3944.22
11000.00	90.00	179.74	100.00	7500.00	-4542.00	-4044.22
11100.00	90.00	179.74	100.00	7500.00	-4542.00	-4144.22
11200.00	90.00	179.74	100.00	7500.00	-4542.00	-4244.22
11300.00	90.00	179.74	100.00	7500.00	-4542.00	-4344.22
11400.00	90.00	179.74	100.00	7500.00	-4542.00	-4444.22
11500.00	90.00	179.74	100.00	7500.00	-4542.00	-4544.21
11581.32	90.00	179.74	81.32	7500.00	-4542.00	-4625.53
11600.00	90.00	178.44	18.68	7500.00	-4542.00	-4644.21
11650.00	90.00	174.96	50.00	7500.00	-4542.00	-4694.12
11700.00	90.00	171.49	50.00	7500.00	-4542.00	-4743.76
11750.00	90.00	168.01	50.00	7500.00	-4542.00	-4792.96
11800.00	90.00	164.54	50.00	7500.00	-4542.00	-4841.52
11850.00	90.00	161.06	50.00	7500.00	-4542.00	-4889.28
11900.00	90.00	157.59	50.00	7500.00	-4542.00	-4936.05
11950.00	90.00	154.11	50.00	7500.00	-4542.00	-4981.67
12000.00	90.00	150.64	50.00	7500.00	-4542.00	-5025.97
12050.00	90.00	147.16	50.00	7500.00	-4542.00	-5068.77
12100.00	90.00	143.69	50.00	7500.00	-4542.00	-5109.94
12150.00	90.00	140.21	50.00	7500.00	-4542.00	-5149.31
12200.00	90.00	136.74	50.00	7500.00	-4542.00	-5186.73
12250.00	90.00	133.26	50.00	7500.00	-4542.00	-5222.09
12300.00	90.00	129.79	50.00	7500.00	-4542.00	-5255.23
12350.00	90.00	126.31	50.00	7500.00	-4542.00	-5286.04
12400.00	90.00	122.84	50.00	7500.00	-4542.00	-5314.41

12450.00	90.00	119.36	50.00	7500.00	-4542.00	-5340.24
12500.00	90.00	115.89	50.00	7500.00	-4542.00	-5363.42
12550.00	90.00	112.41	50.00	7500.00	-4542.00	-5383.87
12600.00	90.00	108.94	50.00	7500.00	-4542.00	-5401.53
12650.00	90.00	105.46	50.00	7500.00	-4542.00	-5416.31
12700.00	90.00	101.99	50.00	7500.00	-4542.00	-5428.17
12750.00	90.00	98.51	50.00	7500.00	-4542.00	-5437.07
12800.00	90.00	95.04	50.00	7500.00	-4542.00	-5442.97
12850.00	90.00	91.56	50.00	7500.00	-4542.00	-5445.85
12900.00	90.00	88.09	50.00	7500.00	-4542.00	-5445.70
12950.00	90.00	84.61	50.00	7500.00	-4542.00	-5442.52
13000.00	90.00	81.14	50.00	7500.00	-4542.00	-5436.32
13050.00	90.00	77.66	50.00	7500.00	-4542.00	-5427.12
13100.00	90.00	74.19	50.00	7500.00	-4542.00	-5414.97
13150.00	90.00	70.71	50.00	7500.00	-4542.00	-5399.89
13200.00	90.00	67.24	50.00	7500.00	-4542.00	-5381.96
13250.00	90.00	63.76	50.00	7500.00	-4542.00	-5361.23
13300.00	90.00	60.29	50.00	7500.00	-4542.00	-5337.78
13350.00	90.00	56.81	50.00	7500.00	-4542.00	-5311.70
13400.00	90.00	53.34	50.00	7500.00	-4542.00	-5283.08
13450.00	90.00	49.86	50.00	7500.00	-4542.00	-5252.03
13500.00	90.00	46.39	50.00	7500.00	-4542.00	-5218.66
13550.00	90.00	42.91	50.00	7500.00	-4542.00	-5183.09
13600.00	90.00	39.44	50.00	7500.00	-4542.00	-5145.47
13650.00	90.00	35.96	50.00	7500.00	-4542.00	-5105.91
13700.00	90.00	32.49	50.00	7500.00	-4542.00	-5064.58
13750.00	90.00	29.01	50.00	7500.00	-4542.00	-5021.61
13800.00	90.00	25.54	50.00	7500.00	-4542.00	-4977.18
13850.00	90.00	22.06	50.00	7500.00	-4542.00	-4931.44
13900.00	90.00	18.59	50.00	7500.00	-4542.00	-4884.56
13950.00	90.00	15.11	50.00	7500.00	-4542.00	-4836.72
14000.00	90.00	11.64	50.00	7500.00	-4542.00	-4788.08
14050.00	90.00	8.16	50.00	7500.00	-4542.00	-4738.83
14100.00	90.00	4.69	50.00	7500.00	-4542.00	-4689.15
14105.32	90.00	4.32	5.32	7500.00	-4542.00	-4683.85
14200.00	90.00	2.43	94.68	7500.00	-4542.00	-4589.34
14300.00	90.00	0.43	100.00	7500.00	-4542.00	-4489.37
14333.98	90.00	359.75	33.98	7500.00	-4542.00	-4455.40
14400.00	90.00	359.75	66.02	7500.00	-4542.00	-4389.38
14500.00	90.00	359.75	100.00	7500.00	-4542.00	-4289.38
14600.00	90.00	359.75	100.00	7500.00	-4542.00	-4189.38
14700.00	90.00	359.75	100.00	7500.00	-4542.00	-4089.38
14800.00	90.00	359.75	100.00	7500.00	-4542.00	-3989.38
14900.00	90.00	359.75	100.00	7500.00	-4542.00	-3889.38

15000.00	90.00	359.75	100.00	7500.00	-4542.00	-3789.38
15100.00	90.00	359.75	100.00	7500.00	-4542.00	-3689.38
15200.00	90.00	359.75	100.00	7500.00	-4542.00	-3589.38
15300.00	90.00	359.75	100.00	7500.00	-4542.00	-3489.38
15400.00	90.00	359.75	100.00	7500.00	-4542.00	-3389.39
15500.00	90.00	359.75	100.00	7500.00	-4542.00	-3289.39
15600.00	90.00	359.75	100.00	7500.00	-4542.00	-3189.39
15700.00	90.00	359.75	100.00	7500.00	-4542.00	-3089.39
15800.00	90.00	359.75	100.00	7500.00	-4542.00	-2989.39
15900.00	90.00	359.75	100.00	7500.00	-4542.00	-2889.39
16000.00	90.00	359.75	100.00	7500.00	-4542.00	-2789.39
16100.00	90.00	359.75	100.00	7500.00	-4542.00	-2689.39
16200.00	90.00	359.75	100.00	7500.00	-4542.00	-2589.39
16300.00	90.00	359.75	100.00	7500.00	-4542.00	-2489.39
16400.00	90.00	359.75	100.00	7500.00	-4542.00	-2389.39
16500.00	90.00	359.75	100.00	7500.00	-4542.00	-2289.40
16600.00	90.00	359.75	100.00	7500.00	-4542.00	-2189.40
16700.00	90.00	359.75	100.00	7500.00	-4542.00	-2089.40
16800.00	90.00	359.75	100.00	7500.00	-4542.00	-1989.40
16900.00	90.00	359.75	100.00	7500.00	-4542.00	-1889.40
17000.00	90.00	359.75	100.00	7500.00	-4542.00	-1789.40
17100.00	90.00	359.75	100.00	7500.00	-4542.00	-1689.40
17200.00	90.00	359.75	100.00	7500.00	-4542.00	-1589.40
17300.00	90.00	359.75	100.00	7500.00	-4542.00	-1489.40
17400.00	90.00	359.75	100.00	7500.00	-4542.00	-1389.40
17500.00	90.00	359.75	100.00	7500.00	-4542.00	-1289.41
17600.00	90.00	359.75	100.00	7500.00	-4542.00	-1189.41
17700.00	90.00	359.75	100.00	7500.00	-4542.00	-1089.41
17800.00	90.00	359.75	100.00	7500.00	-4542.00	-989.41
17900.00	90.00	359.75	100.00	7500.00	-4542.00	-889.41
18000.00	90.00	359.75	100.00	7500.00	-4542.00	-789.41
18100.00	90.00	359.75	100.00	7500.00	-4542.00	-689.41
18200.00	90.00	359.75	100.00	7500.00	-4542.00	-589.41
18300.00	90.00	359.75	100.00	7500.00	-4542.00	-489.41
18400.00	90.00	359.75	100.00	7500.00	-4542.00	-389.41
18461.64	90.00	359.75	61.64	7500.00	-4542.00	-327.78

Local E/-W EW	Easting X	Northing Y	Latitude LAT	Longitude LON	Dogleg Severi DLS	Build Rate BLD
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
1.69	625808.52	414092.54	32.138125	-104.060426	2.00	2.00
6.76	625813.59	414091.24	32.138121	-104.060410	2.00	2.00
10.56	625817.39	414090.27	32.138119	-104.060398	2.00	2.00
14.79	625821.62	414089.20	32.138116	-104.060384	0.00	0.00
23.23	625830.06	414087.04	32.138110	-104.060357	0.00	0.00
31.78	625838.61	414084.86	32.138104	-104.060329	0.00	0.00
41.70	625848.53	414082.11	32.138096	-104.060297	2.00	1.99
54.94	625861.77	414078.07	32.138085	-104.060254	2.00	1.99

71.39	625878.22	414072.76	32.138070	-104.060201	2.00	2.00
91.04	625897.87	414066.20	32.138052	-104.060138	2.00	2.00
94.22	625901.05	414065.12	32.138049	-104.060128	2.00	2.00
112.70	625919.53	414058.85	32.138032	-104.060068	0.00	0.00
134.40	625941.23	414051.48	32.138011	-104.059998	0.00	0.00
156.09	625962.92	414044.10	32.137991	-104.059928	0.00	0.00
177.79	625984.62	414036.73	32.137970	-104.059858	0.00	0.00
199.49	626006.32	414029.36	32.137950	-104.059788	0.00	0.00
221.18	626028.01	414021.99	32.137929	-104.059718	0.00	0.00
242.88	626049.71	414014.62	32.137909	-104.059648	0.00	0.00
264.58	626071.41	414007.25	32.137889	-104.059578	0.00	0.00
286.28	626093.11	413999.88	32.137868	-104.059508	0.00	0.00
307.97	626114.80	413992.51	32.137848	-104.059438	0.00	0.00
329.67	626136.50	413985.14	32.137827	-104.059367	0.00	0.00
351.37	626158.20	413977.77	32.137807	-104.059297	0.00	0.00
373.07	626179.90	413970.40	32.137787	-104.059227	0.00	0.00
394.76	626201.59	413963.02	32.137766	-104.059157	0.00	0.00
416.46	626223.29	413955.65	32.137746	-104.059087	0.00	0.00
438.16	626244.99	413948.28	32.137725	-104.059017	0.00	0.00
459.85	626266.68	413940.91	32.137705	-104.058947	0.00	0.00
481.55	626288.38	413933.54	32.137685	-104.058877	0.00	0.00
503.25	626310.08	413926.17	32.137664	-104.058807	0.00	0.00
524.95	626331.78	413918.80	32.137644	-104.058737	0.00	0.00
546.64	626353.47	413911.43	32.137623	-104.058667	0.00	0.00
568.34	626375.17	413904.06	32.137603	-104.058597	0.00	0.00
590.04	626396.87	413896.69	32.137582	-104.058527	0.00	0.00
611.73	626418.56	413889.32	32.137562	-104.058457	0.00	0.00
633.43	626440.26	413881.95	32.137542	-104.058387	0.00	0.00
655.13	626461.96	413874.57	32.137521	-104.058317	0.00	0.00
676.83	626483.66	413867.20	32.137501	-104.058247	0.00	0.00
698.52	626505.35	413859.83	32.137480	-104.058177	0.00	0.00
720.22	626527.05	413852.46	32.137460	-104.058107	0.00	0.00
741.92	626548.75	413845.09	32.137440	-104.058037	0.00	0.00
763.62	626570.45	413837.72	32.137419	-104.057967	0.00	0.00
785.31	626592.14	413830.35	32.137399	-104.057897	0.00	0.00
807.01	626613.84	413822.98	32.137378	-104.057827	0.00	0.00
828.71	626635.54	413815.61	32.137358	-104.057757	0.00	0.00
850.40	626657.23	413808.24	32.137337	-104.057687	0.00	0.00
872.10	626678.93	413800.87	32.137317	-104.057617	0.00	0.00
893.80	626700.63	413793.49	32.137297	-104.057547	0.00	0.00
915.50	626722.33	413786.12	32.137276	-104.057476	0.00	0.00
937.19	626744.02	413778.75	32.137256	-104.057406	0.00	0.00
958.89	626765.72	413771.38	32.137235	-104.057336	0.00	0.00
980.59	626787.42	413764.01	32.137215	-104.057266	0.00	0.00

1002.29	626809.12	413756.64	32.137195	-104.057196	0.00	0.00
1023.98	626830.81	413749.27	32.137174	-104.057126	0.00	0.00
1045.68	626852.51	413741.90	32.137154	-104.057056	0.00	0.00
1067.38	626874.21	413734.53	32.137133	-104.056986	0.00	0.00
1089.07	626895.90	413727.16	32.137113	-104.056916	0.00	0.00
1110.77	626917.60	413719.79	32.137092	-104.056846	0.00	0.00
1132.47	626939.30	413712.41	32.137072	-104.056776	0.00	0.00
1154.17	626961.00	413705.04	32.137052	-104.056706	0.00	0.00
1175.86	626982.69	413697.67	32.137031	-104.056636	0.00	0.00
1197.56	627004.39	413690.30	32.137011	-104.056566	0.00	0.00
1219.26	627026.09	413682.93	32.136990	-104.056496	0.00	0.00
1240.95	627047.78	413675.56	32.136970	-104.056426	0.00	0.00
1262.65	627069.48	413668.19	32.136950	-104.056356	0.00	0.00
1284.35	627091.18	413660.82	32.136929	-104.056286	0.00	0.00
1306.05	627112.88	413653.45	32.136909	-104.056216	0.00	0.00
1327.74	627134.57	413646.08	32.136888	-104.056146	0.00	0.00
1331.00	627137.83	413644.97	32.136885	-104.056135	0.00	0.00
1338.51	627145.34	413641.33	32.136875	-104.056111	10.00	3.72
1348.93	627155.76	413632.46	32.136851	-104.056077	10.00	5.84
1358.91	627165.74	413619.35	32.136815	-104.056045	10.00	7.39
1368.37	627175.20	413602.09	32.136767	-104.056015	10.00	8.26
1377.24	627184.07	413580.82	32.136709	-104.055986	10.00	8.77
1385.45	627192.28	413555.69	32.136639	-104.055960	10.00	9.08
1392.95	627199.78	413526.90	32.136560	-104.055936	10.00	9.28
1399.66	627206.49	413494.66	32.136472	-104.055915	10.00	9.42
1405.55	627212.38	413459.23	32.136374	-104.055896	10.00	9.51
1410.57	627217.40	413420.87	32.136269	-104.055880	10.00	9.58
1414.67	627221.50	413379.87	32.136156	-104.055867	10.00	9.63
1417.84	627224.67	413336.54	32.136037	-104.055857	10.00	9.67
1420.03	627226.86	413291.23	32.135912	-104.055851	10.00	9.70
1421.25	627228.08	413244.26	32.135783	-104.055847	10.00	9.72
1421.49	627228.32	413219.35	32.135715	-104.055846	10.00	9.73
1421.79	627228.62	413147.26	32.135516	-104.055846	5.00	5.00
1422.22	627229.05	413048.47	32.135245	-104.055846	5.00	5.00
1422.67	627229.50	412948.72	32.134971	-104.055845	5.00	5.00
1422.79	627229.62	412922.77	32.134899	-104.055845	5.00	5.00
1423.13	627229.96	412848.72	32.134696	-104.055844	0.00	0.00
1423.58	627230.41	412748.72	32.134421	-104.055844	0.00	0.00
1424.04	627230.87	412648.72	32.134146	-104.055843	0.00	0.00
1424.50	627231.33	412548.72	32.133871	-104.055842	0.00	0.00
1424.96	627231.79	412448.73	32.133596	-104.055842	0.00	0.00
1425.41	627232.24	412348.73	32.133321	-104.055841	0.00	0.00
1425.87	627232.70	412248.73	32.133046	-104.055840	0.00	0.00
1426.33	627233.16	412148.73	32.132772	-104.055840	0.00	0.00

1426.79	627233.62	412048.73	32.132497	-104.055839	0.00	0.00
1427.24	627234.07	411948.73	32.132222	-104.055838	0.00	0.00
1427.70	627234.53	411848.73	32.131947	-104.055838	0.00	0.00
1428.16	627234.99	411748.73	32.131672	-104.055837	0.00	0.00
1428.62	627235.45	411648.73	32.131397	-104.055837	0.00	0.00
1429.08	627235.91	411548.74	32.131122	-104.055836	0.00	0.00
1429.53	627236.36	411448.74	32.130847	-104.055835	0.00	0.00
1429.99	627236.82	411348.74	32.130572	-104.055835	0.00	0.00
1430.45	627237.28	411248.74	32.130298	-104.055834	0.00	0.00
1430.91	627237.74	411148.74	32.130023	-104.055833	0.00	0.00
1431.36	627238.19	411048.74	32.129748	-104.055833	0.00	0.00
1431.82	627238.65	410948.74	32.129473	-104.055832	0.00	0.00
1432.28	627239.11	410848.74	32.129198	-104.055831	0.00	0.00
1432.74	627239.57	410748.74	32.128923	-104.055831	0.00	0.00
1433.19	627240.02	410648.74	32.128648	-104.055830	0.00	0.00
1433.65	627240.48	410548.75	32.128373	-104.055829	0.00	0.00
1434.11	627240.94	410448.75	32.128098	-104.055829	0.00	0.00
1434.57	627241.40	410348.75	32.127824	-104.055828	0.00	0.00
1435.02	627241.85	410248.75	32.127549	-104.055827	0.00	0.00
1435.48	627242.31	410148.75	32.127274	-104.055827	0.00	0.00
1435.94	627242.77	410048.75	32.126999	-104.055826	0.00	0.00
1436.40	627243.23	409948.75	32.126724	-104.055826	0.00	0.00
1436.86	627243.69	409848.75	32.126449	-104.055825	0.00	0.00
1437.31	627244.14	409748.75	32.126174	-104.055824	0.00	0.00
1437.77	627244.60	409648.75	32.125899	-104.055824	0.00	0.00
1438.23	627245.06	409548.76	32.125624	-104.055823	0.00	0.00
1438.60	627245.43	409467.44	32.125401	-104.055822	0.00	0.00
1438.90	627245.73	409448.76	32.125349	-104.055822	6.95	0.00
1441.77	627248.60	409398.85	32.125212	-104.055813	6.95	0.00
1447.67	627254.50	409349.21	32.125076	-104.055794	6.95	0.00
1456.56	627263.39	409300.01	32.124940	-104.055766	6.95	0.00
1468.42	627275.25	409251.45	32.124807	-104.055728	6.95	0.00
1483.21	627290.04	409203.69	32.124675	-104.055681	6.95	0.00
1500.85	627307.68	409156.92	32.124547	-104.055624	6.95	0.00
1521.31	627328.14	409111.30	32.124421	-104.055558	6.95	0.00
1544.49	627351.32	409067.00	32.124299	-104.055484	6.95	0.00
1570.31	627377.14	409024.20	32.124181	-104.055401	6.95	0.00
1598.68	627405.51	408983.03	32.124068	-104.055309	6.95	0.00
1629.49	627436.32	408943.66	32.123960	-104.055210	6.95	0.00
1662.63	627469.46	408906.24	32.123857	-104.055103	6.95	0.00
1697.98	627504.81	408870.89	32.123759	-104.054990	6.95	0.00
1735.40	627542.23	408837.74	32.123668	-104.054869	6.95	0.00
1774.77	627581.60	408806.93	32.123583	-104.054742	6.95	0.00
1815.93	627622.76	408778.56	32.123504	-104.054609	6.95	0.00

1858.74	627665.57	408752.73	32.123433	-104.054471	6.95	0.00
1903.03	627709.86	408729.55	32.123369	-104.054328	6.95	0.00
1948.65	627755.48	408709.10	32.123313	-104.054181	6.95	0.00
1995.42	627802.25	408691.44	32.123264	-104.054030	6.95	0.00
2043.18	627850.01	408676.66	32.123223	-104.053876	6.95	0.00
2091.74	627898.57	408664.80	32.123190	-104.053719	6.95	0.00
2140.93	627947.76	408655.90	32.123165	-104.053560	6.95	0.00
2190.58	627997.41	408650.00	32.123148	-104.053400	6.95	0.00
2240.49	628047.32	408647.12	32.123140	-104.053239	6.95	0.00
2290.48	628097.31	408647.27	32.123140	-104.053077	6.95	0.00
2340.37	628147.20	408650.45	32.123149	-104.052916	6.95	0.00
2389.98	628196.81	408656.65	32.123165	-104.052756	6.95	0.00
2439.12	628245.95	408665.85	32.123190	-104.052597	6.95	0.00
2487.61	628294.44	408678.00	32.123223	-104.052440	6.95	0.00
2535.27	628342.10	408693.08	32.123264	-104.052286	6.95	0.00
2581.94	628388.77	408711.01	32.123313	-104.052135	6.95	0.00
2627.43	628434.26	408731.74	32.123370	-104.051988	6.95	0.00
2671.58	628478.41	408755.19	32.123434	-104.051846	6.95	0.00
2714.23	628521.06	408781.27	32.123506	-104.051708	6.95	0.00
2755.22	628562.05	408809.89	32.123584	-104.051575	6.95	0.00
2794.40	628601.23	408840.94	32.123669	-104.051448	6.95	0.00
2831.63	628638.46	408874.31	32.123760	-104.051328	6.95	0.00
2866.76	628673.59	408909.88	32.123858	-104.051214	6.95	0.00
2899.67	628706.50	408947.51	32.123961	-104.051107	6.95	0.00
2930.25	628737.08	408987.06	32.124070	-104.051008	6.95	0.00
2958.37	628765.20	409028.39	32.124183	-104.050917	6.95	0.00
2983.93	628790.76	409071.36	32.124301	-104.050834	6.95	0.00
3006.84	628813.67	409115.79	32.124423	-104.050760	6.95	0.00
3027.01	628833.84	409161.53	32.124549	-104.050694	6.95	0.00
3044.38	628851.21	409208.41	32.124677	-104.050637	6.95	0.00
3058.87	628865.70	409256.26	32.124809	-104.050590	6.95	0.00
3070.44	628877.27	409304.89	32.124942	-104.050552	6.95	0.00
3079.04	628885.87	409354.14	32.125078	-104.050524	6.95	0.00
3084.63	628891.46	409403.82	32.125214	-104.050506	6.95	0.00
3085.05	628891.88	409409.12	32.125229	-104.050504	6.95	0.00
3090.62	628897.45	409503.63	32.125489	-104.050486	2.00	0.00
3093.11	628899.94	409603.60	32.125763	-104.050477	2.00	0.00
3093.16	628899.99	409637.57	32.125857	-104.050476	2.00	0.00
3092.87	628899.70	409703.60	32.126038	-104.050477	0.00	0.00
3092.43	628899.26	409803.59	32.126313	-104.050477	0.00	0.00
3091.98	628898.81	409903.59	32.126588	-104.050478	0.00	0.00
3091.54	628898.37	410003.59	32.126863	-104.050478	0.00	0.00
3091.10	628897.93	410103.59	32.127138	-104.050479	0.00	0.00
3090.66	628897.49	410203.59	32.127413	-104.050480	0.00	0.00

3090.21	628897.04	410303.59	32.127688	-104.050480	0.00	0.00
3089.77	628896.60	410403.59	32.127962	-104.050481	0.00	0.00
3089.33	628896.16	410503.59	32.128237	-104.050481	0.00	0.00
3088.89	628895.72	410603.59	32.128512	-104.050482	0.00	0.00
3088.44	628895.27	410703.59	32.128787	-104.050482	0.00	0.00
3088.00	628894.83	410803.58	32.129062	-104.050483	0.00	0.00
3087.56	628894.39	410903.58	32.129337	-104.050484	0.00	0.00
3087.12	628893.95	411003.58	32.129612	-104.050484	0.00	0.00
3086.67	628893.50	411103.58	32.129887	-104.050485	0.00	0.00
3086.23	628893.06	411203.58	32.130162	-104.050485	0.00	0.00
3085.79	628892.62	411303.58	32.130436	-104.050486	0.00	0.00
3085.35	628892.18	411403.58	32.130711	-104.050487	0.00	0.00
3084.91	628891.74	411503.58	32.130986	-104.050487	0.00	0.00
3084.46	628891.29	411603.58	32.131261	-104.050488	0.00	0.00
3084.02	628890.85	411703.58	32.131536	-104.050488	0.00	0.00
3083.58	628890.41	411803.58	32.131811	-104.050489	0.00	0.00
3083.14	628889.97	411903.57	32.132086	-104.050489	0.00	0.00
3082.69	628889.52	412003.57	32.132361	-104.050490	0.00	0.00
3082.25	628889.08	412103.57	32.132636	-104.050491	0.00	0.00
3081.81	628888.64	412203.57	32.132910	-104.050491	0.00	0.00
3081.37	628888.20	412303.57	32.133185	-104.050492	0.00	0.00
3080.92	628887.75	412403.57	32.133460	-104.050492	0.00	0.00
3080.48	628887.31	412503.57	32.133735	-104.050493	0.00	0.00
3080.04	628886.87	412603.57	32.134010	-104.050493	0.00	0.00
3079.60	628886.43	412703.57	32.134285	-104.050494	0.00	0.00
3079.15	628885.98	412803.57	32.134560	-104.050495	0.00	0.00
3078.71	628885.54	412903.56	32.134835	-104.050495	0.00	0.00
3078.27	628885.10	413003.56	32.135110	-104.050496	0.00	0.00
3077.83	628884.66	413103.56	32.135385	-104.050496	0.00	0.00
3077.38	628884.21	413203.56	32.135659	-104.050497	0.00	0.00
3076.94	628883.77	413303.56	32.135934	-104.050498	0.00	0.00
3076.50	628883.33	413403.56	32.136209	-104.050498	0.00	0.00
3076.06	628882.89	413503.56	32.136484	-104.050499	0.00	0.00
3075.62	628882.45	413603.56	32.136759	-104.050499	0.00	0.00
3075.17	628882.00	413703.56	32.137034	-104.050500	0.00	0.00
3074.90	628881.73	413765.19	32.137203	-104.050500	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	0.44
0.00	1.76
0.00	2.74
0.00	3.84
0.00	6.03
0.00	8.25
2.04	11.04
1.14	15.14

0.73	20.52
0.51	27.16
0.42	28.26
0.00	34.62
0.00	42.08
0.00	49.55
0.00	57.01
0.00	64.48
0.00	71.94
0.00	79.41
0.00	86.87
0.00	94.34
0.00	101.81
0.00	109.27
0.00	116.74
0.00	124.20
0.00	131.67
0.00	139.13
0.00	146.60
0.00	154.06
0.00	161.53
0.00	168.99
0.00	176.46
0.00	183.93
0.00	191.39
0.00	198.86
0.00	206.32
0.00	213.79
0.00	221.25
0.00	228.72
0.00	236.18
0.00	243.65
0.00	251.12
0.00	258.58
0.00	266.05
0.00	273.51
0.00	280.98
0.00	288.44
0.00	295.91
0.00	303.37
0.00	310.84
0.00	318.30
0.00	325.77
0.00	333.24

0.00	340.70
0.00	348.17
0.00	355.63
0.00	363.10
0.00	370.56
0.00	378.03
0.00	385.49
0.00	392.96
0.00	400.42
0.00	407.89
0.00	415.36
0.00	422.82
0.00	430.29
0.00	437.75
0.00	445.22
0.00	452.68
0.00	453.80
38.76	457.48
29.62	466.39
20.49	479.54
14.36	496.85
10.46	518.16
7.94	543.32
6.27	572.15
5.11	604.41
4.29	639.87
3.70	678.25
3.26	719.27
2.93	762.61
2.69	807.93
2.51	854.90
2.40	879.82
-0.01	951.91
-0.01	1050.70
-0.01	1150.45
-0.01	1176.40
0.00	1250.45
0.00	1350.45
0.00	1450.45
0.00	1550.45
0.00	1650.45
0.00	1750.45
0.00	1850.45
0.00	1950.45

0.00	2050.45
0.00	2150.45
0.00	2250.45
0.00	2350.45
0.00	2450.45
0.00	2550.45
0.00	2650.45
0.00	2750.45
0.00	2850.45
0.00	2950.45
0.00	3050.45
0.00	3150.45
0.00	3250.45
0.00	3350.45
0.00	3450.45
0.00	3550.45
0.00	3650.45
0.00	3750.45
0.00	3850.45
0.00	3950.45
0.00	4050.45
0.00	4150.45
0.00	4250.45
0.00	4350.45
0.00	4450.45
0.00	4550.45
0.00	4631.76
-6.95	4650.45
-6.95	4700.37
-6.95	4750.04
-6.95	4799.27
-6.95	4847.89
-6.95	4895.71
-6.95	4942.56
-6.95	4988.26
-6.95	5032.66
-6.95	5075.58
-6.95	5116.86
-6.95	5156.37
-6.95	5193.94
-6.95	5229.44
-6.95	5262.75
-6.95	5293.74
-6.95	5322.29

-6.95	5348.30
-6.95	5371.67
-6.95	5392.33
-6.95	5410.18
-6.95	5425.17
-6.95	5437.25
-6.95	5446.36
-6.95	5452.48
-6.95	5455.57
-6.95	5455.64
-6.95	5452.68
-6.95	5446.70
-6.95	5437.71
-6.95	5425.77
-6.95	5410.91
-6.95	5393.17
-6.95	5372.64
-6.95	5349.39
-6.95	5323.49
-6.95	5295.05
-6.95	5264.17
-6.95	5230.96
-6.95	5195.55
-6.95	5158.07
-6.95	5118.65
-6.95	5077.44
-6.95	5034.59
-6.95	4990.25
-6.95	4944.60
-6.95	4897.80
-6.95	4850.02
-6.95	4801.43
-6.95	4752.22
-6.95	4702.57
-6.95	4697.27
-2.00	4602.78
-2.00	4502.83
-2.00	4468.85
0.00	4402.83
0.00	4302.83
0.00	4202.83
0.00	4102.83
0.00	4002.83
0.00	3902.83

0.00	3802.83
0.00	3702.83
0.00	3602.83
0.00	3502.83
0.00	3402.83
0.00	3302.83
0.00	3202.83
0.00	3102.83
0.00	3002.83
0.00	2902.83
0.00	2802.83
0.00	2702.83
0.00	2602.83
0.00	2502.83
0.00	2402.83
0.00	2302.83
0.00	2202.83
0.00	2102.83
0.00	2002.83
0.00	1902.83
0.00	1802.83
0.00	1702.83
0.00	1602.83
0.00	1502.83
0.00	1402.83
0.00	1302.83
0.00	1202.83
0.00	1102.83
0.00	1002.83
0.00	902.83
0.00	802.83
0.00	702.83
0.00	602.83
0.00	502.83
0.00	402.83
0.00	341.19

Well Control Plan

Warning Signs of a Kick

If a kick is ever suspected, perform flow check.

While Drilling:

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

While Tripping:

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

While Out of the Hole:

1. Flow
2. Pit gain

Well Control Procedures with Diverter

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

If rotating head is installed:

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

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

If rotating head is not installed:

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

Well Control Procedures

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

General Well Control

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

Hard Shut-In

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

Flow Check when on Bottom

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

Shutting in while Drilling

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

Flow Check while Tripping

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

Shutting in while Tripping

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

Shutting in while Out of Hole

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

Information to Record while Shut-In

1. Shut in drill pipe pressure every 5 minutes

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

H2S with Annular Diverter:

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

H2S with BOP's:

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

Procedure for Closing Blind Rams

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

Procedure for Opening Blind Rams

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

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

BOP Drills

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

Choke Manifold Freeze Prevention

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

Coterra Energy

Eddy County, NM (NAD 83)
Riverbend 14 Federal Com
Riverbend 14 Federal Com 1H

OH

Plan: Plan 1

Total Directional
"Driven by TOTAL performance"

Standard Plan Report

16 October, 2025

Total Report Version 1.80

COMPASS 5000.16 Build 97

ATTENTION

Pllaneed n Sleaunlldr vayRln RpadapSv neuRvanyRar euRy SSRpanepanyRant t ydWS n Rpaadd nbRva r vSeban1nSh4lRavdoF nyRanepai Rnvr yRi Re addlvCamHREavHdr lpæd a4Rai Sv ngReanvanea doSSlayRudyp2F HSlHaunealelEa4Rad4 nSeRpaf1SnanuRy SSRpalnepavr y1REdyC

9lneeRpa8r y1REa5Rtdy

Company:	@dRyyna eRybE	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di aG8
Project:	. ppEa@dr e E2BUaDBPhaMfT	**TVD Reference:**	0sf(a6)a a0faNa0s(MAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	0sf(a6)a a0faNa0s(MAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di aG8	**North Reference:**	6 yS
Wellbore:	w8	**Survey Calculation Method:**	USaS ri a@ry1n ryR
Design:	9lneaG	**Database:**	@dnlah SRu Slenla9ydpr u Slea x

Project	. ppEa@dr e E2BUaDBPhaMfT		
Map System:	Z3a8 n Ra9lneRaGsMf	**System Datum:**	URnea8Rna)R1RI
Geo Datum:	BdyHaPi RySneahn r i aGsMf		
Map Zone:	BRFaURVSda nv Rye a' deR		

Site	5 SIRy4RepaGLa+RpRynla@di				
Site Position:		**Northing:**	LGL2As0G- r vo	**Latitude:**	f 0CCf MG0C0
From:	Unt	**Easting:**	C0(2MAC0Mf r vo	**Longitude:**	/GALCACALf G-
Position Uncertainty:	ACAA r vo	**Slot Radius:**	Gf/f°GO 7		

Well	5 SIRy4RepaGLa+RpRynla@di aG8						
Well Position	**+N/-S**	ACAA r vo	**Northing:**	LGL2As0G- r vo	**Latitude:**	f 0CCf MG0C0	
	+E/-W	ACAA r vo	**Easting:**	C0(2MAC0Mf r vo	**Longitude:**	/GALCACALf G-	
Position Uncertainty		ACAA r vo	**Wellhead Elevation:**	r vo	**Ground Level:**	02sf(CAA r vo	
Grid Convergence:		ACG(l					

Wellbore	w8				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	8h6U0A0(	G0°Gf °0A0(	OCL0	(sCCf	L-2G0OCMAAAAAAA

Design	9lneaG				
Audit Notes:					
Version:		**Phase:**	9)PB	**Tie On Depth:**	ACAA
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	ACAA	ACAA	ACAA	G-sG(	

Survey Tool Program		**Date**	GA°GO°0A0(		
From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**	
ACAA	GM2LOG0CL	9lneaGaDw8T	U' h,k+5G,U3	w' 36aU' ha,ak+5Ga,aUrlS3 n Slea@dyyRu Sle	

9lneeRpa8r y1REa5 Rt dy

Company:	@d Ryyna eRybE	**Local Co-ordinate Reference:**	' Rla5 SlRy4RepaGLa+RpRynla@di aG8
Project:	. ppEa@dr e E2aBUaDBPhaMf T	**TVD Reference:**	0sf (a6) a a0f aN a0s (MCAAr voaD@nur vaG(OT
Site:	5 SlRy4RepaGLa+RpRynla@di	**MD Reference:**	0sf (a6) a a0f aN a0s (MCAAr voaD@nur vaG(OT
Well:	5 SlRy4RepaGLa+RpRynla@di aG8	**North Reference:**	6 yS
Wellbore:	w8	**Survey Calculation Method:**	U SaS r i a@r y1n r yR
Design:	9lneaG	**Database:**	@nd nlah SRu Slenla9ydpr u Slean x

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
ACAA	ACAA	ACAA	ACAA	ACAA	ACAA	ACAA	ACAA	ACAA	ACAA	
(AACAA	ACAA	ACAA	(AACAA	ACAA	ACAA	ACAA	ACAA	ACAA	ACAA	
- (ACAA	(CAA	GALC0	- LsCCM	/0CA	GAC¢O	0CAA	0CAA	ACAA	GALC0	
G2AAGCD-	(CAA	GALC0	G2AAACAA	/MCGG	f GCM	ACAA	ACAA	ACAA	ACAA	
G2LGLCM0	GfC0(	GAMCO	G2LA-G-	/0- CM(	sLC00	0CAA	GCs	GCA-	- CAs	
- 2GG(CAG	GfC0(	GAMCO	C2s (CCLM	/LLMCAA	GCf f GCAA	ACAA	ACAA	ACAA	ACAA	
- 2M0 (GsO	- (CAA	GsGO	- 2LOAG(	/M- f CC0	G2L0GCLs	GAGAA	MCCs	sGs	- LCM	
MCC0 (Gs (	sACAA	GsGL	- 2Lss Gs	/G2G- ACDA	G2L00Gs	(CAA	(CAA	/ACAG	/ACAs	
GG2 (MCC0	sACAA	GsGL	- 2(AACAA	/L2C0 (C¢f	G2Lf MCDA	ACAA	ACAA	ACAA	ACAA	
GL2GA (C0	sACAA	LC0	- 2(AACAA	/L2CM CM(	f 2AM (CA (	OGs (	ACAA	/OGs (	/sACAA	
GL2f f f GsM	sACAA	f (sG (	- 2(AACAA	/L2 ((CLA	f 2Asf GCO	0CAA	ACAA	/0CAA	/sACAA	
GM2LOGCCL	sACAA	f (sG (	- 2(AACAA	/f 0- GM	f 2A- LGsA	ACAA	ACAA	ACAA	ACAA	

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
ACAA	ACAA	ACAA	ACAA	ACAA	ACAA	LGL2As0Gs-	C0 (2MACDMf	f 0GfM G0C0	/GALGAOALf G-	ACAA	ACAA	ACAA	ACAA
GAACAA	ACAA	ACAA	GAACAA	ACAA	ACAA	LGL2As0Gs-	C0 (2MACDMf	f 0GfM G0C0	/GALGAOALf G-	ACAA	ACAA	ACAA	ACAA
0AACAA	ACAA	ACAA	0AACAA	ACAA	ACAA	LGL2As0Gs-	C0 (2MACDMf	f 0GfM G0C0	/GALGAOALf G-	ACAA	ACAA	ACAA	ACAA
f AACAA	ACAA	ACAA	f AACAA	ACAA	ACAA	LGL2As0Gs-	C0 (2MACDMf	f 0GfM G0C0	/GALGAOALf G-	ACAA	ACAA	ACAA	ACAA
LAACAA	ACAA	ACAA	LAACAA	ACAA	ACAA	LGL2As0Gs-	C0 (2MACDMf	f 0GfM G0C0	/GALGAOALf G-	ACAA	ACAA	ACAA	ACAA
(AACAA	ACAA	ACAA	(AACAA	ACAA	ACAA	LGL2As0Gs-	C0 (2MACDMf	f 0GfM G0C0	/GALGAOALf G-	ACAA	ACAA	ACAA	ACAA
Start Build 2.00													
OAACAA	0CAA	GALC0	(ssGM	/ACf	GCCs	LGL2As0C¢L	C0 (2MAMC¢0	f 0GfM G0 (A	/GALGAOAL0C0	ACCL	0CAA	0CAA	ACAA
- AACAA	LCAA	GALC0	Oss CML	/GGf	OGO	LGL2AsGCDL	C0 (2MGf C¢s	f 0GfM G0GL	/GALGAOALAsM	GGO	0CAA	0CAA	ACAA
- (ACAA	(CAA	GALC0	- LsCCM	/0CA	GAC¢O	LGL2AsACD-	C0 (2MG- C¢s	f 0GfM GGM-	/GALGAOAf s- O	0GL	0CAA	0CAA	ACAA
Start 251.27 hold at 750.00 MD													
MAACAA	(CAA	GALC0	- ssCLs	/f G-	GLGs	LGL2AMsCDA	C0 (2M0GCC0	f 0GfM GGG (-	/GALGAOAf M f s	f CML	ACAA	ACAA	ACAA
sAACAA	(CAA	GALC0	MssGGG	/(Gsf	0f C0f	LGL2AM- CAL	C0 (2Mf AGAO	f 0GfM GAs-	/GALGAOAf (O-	OCAf	ACAA	ACAA	ACAA
G2AAGCD-	(CAA	GALC0	G2AAACAA	/MCGG	f GCM	LGL2AMLCMD	C0 (2Mf MCDG	f 0GfM GAf O	/GALGAOAf 0sA	MD (	ACAA	ACAA	ACAA
Start DLS 2.00 TFO 7.09													
G2As0GO	OCM0	GACC00	G2AsGGAA	/GACC0	LACMD	LGL2AM0C¢ (	C0 (2ML- CCs	f 0GfM AsO-	/GALGAOA0ss-	GAGs	0CAA	GGss	0CAM
Rustler													
G2GAAGAA	OGsO	GACC¢f	G2AsMCGM	/GAGMD	LGGA	LGL2AM0CGG	C0 (2MLMC¢f	f 0GfM AsOA	/GALGAOA0s- A	GGGAL	0CAA	GGss	GCLs
G20AAGAA	MGsO	GA- CL-	G2Gs- C00	/GLGsA	(LGsL	LGL2A- MDA-	C0 (2MDGG -	f 0GfM AMLM	/GALGAOA0 (Lf	G(CCL	0CAA	GGss	GCGL
GfAAGAA	GAGs (	GAMCDA	G20s (GG	/0ACDG	- GCCs	LGL2A- 0GO	C0 (2M- MC0	f 0GfM A- AG	/GALGAOA0AG0	0AC¢0	0CAA	0CAA	AGf
G2LAAGAA	G0Gs (	GAMGA	GfsfC¢f	/0OG -	sGCAL	LGL2ACCCDA	C0 (2Ms- CM	f 0GfM A (Gs	/GALGAOAGf - M	0- CGO	0CAA	0CAA	AC¢G
G2LGLCM0	GfC0(	GAMGO	G2LA-G-	/0- CM(	sLC00	LGL2AC (CG0	C0 (2sAGGA (	f 0GfM ALsA	/GALGAOAG0- (	0MDO	0CAA	0CAA	ACL0
G2 (AACAA	GfC0(	GAMGO	G2LsACDM	/f LCG0	GG0GA	LGL2A (MDM (	C0 (2sGs C¢f	f 0GfM Af GO	/GALGAOAAO- M	f LCC0	ACAA	ACAA	ACAA
G2 (MGCDM	GfC0(	GAMGO	G2 (- AGAA	/LACG0	GfAC f	LGL2A (0CM (	C0 (2sf - GGO	f 0GfM AG (A	/GALGAOAAGAs	LACCM	ACAA	ACAA	ACAA

9lneeRpa8r y1REa5Rt dy

Company:	@d Ryyna eRybE	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di aG8
Project:	. ppEa@dr e E2BUaDBPhaMfT	**TVD Reference:**	0sf (a6)a a0faNa0s(MCAArvoaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	0sf (a6)a a0faNa0s(MCAArvoaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di aG8	**North Reference:**	6 yS
Wellbore:	w8	**Survey Calculation Method:**	USaS ri a@ry1n ryR
Design:	9lneaG	**Database:**	Cmd nlah SRu Slenla9ydpr u Sleah x

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Top Salt													
G2DAAG2AA	Gf C0(	GAMG O	G2(MMC0 0	/LGCLs	GfLCfs	LGL2A(GCLM	C0(2sLGC0 0	f 0CGf MAGG0	/GALGA(sss- M	L0G2AM	AG2AA	AG2AA	AG2AA
G2- AAG2AA	Gf C0(	GAMG O	G2CM(Cf O	/LMCM-	G(CGAs	LGL2ALLCGA	C0(2sCOGs0	f 0CGf - ssA-	/GALGA(ss0- M	LsCf(	AG2AA	AG2AA	AG2AA
G2MAAG2AA	Gf C0(	GAMG O	G2- MCGA	/(COCL	G- - Gs	LGL2Af OGf	C0(2sMLCC0	f 0CGf - s- Af	/GALGA(sM(- -	(- G2AG	AG2AA	AG2AA	AG2AA
G2sAAG2AA	Gf C0(	GAMG O	G2MMACCL	/Cf CCG	GssCLs	LGL2A0sCf O	C0C2AACCf 0	f 0CGf - sLss	/GALGA(s- M-	CLCLM	AG2AA	AG2AA	AG2AA
02AAAG2AA	Gf C0(	GAMG O	G2s- - Cf M	/- AGsM	00GCG M	LGL2A0GGss	C0C2A0MAAG	f 0CGf - s0s(	/GALGA(s- G-	- GGsL	AG2AA	AG2AA	AG2AA
02GAAG2AA	Gf C0(	GAMG O	02A- LGsG	/- MCf (	0L0CMM	LGL2AGLCC0	C0C2ALsG G	f 0CGf - sAsG	/GALGA(sCL- O	- sCLG	AG2AA	AG2AA	AG2AA
02DAAG2AA	Gf C0(	GAMG O	02G- 0CC(	/M(G 0	0CLCf M	LGL2AA- CC(	C0C2A- GCLG	f 0CGf - MMA-	/GALGA(s(- - O	MCCM-	AG2AA	AG2AA	AG2AA
02fAAG2AA	Gf C0(	GAMG O	02C0sCfs	/sf CAs	0MCCCM	LGf 2sssCMM	C0C2Asf CGG	f 0CGf - MCM	/GALGA(s(A- (	sLCfL	AG2AA	AG2AA	AG2AA
02fsLGsf	Gf C0(	GAMG O	02fC0CAA	/GAAGAs	fACCM-	LGf 2ss0CMM	C0C2GGf GA	f 0CGf - MLMs	/GALGA(sLLGA	GAGCLf	AG2AA	AG2AA	AG2AA
Base Salt/Lamar													
02LAAG2AA	Gf C0(	GAMG O	02fCCGsf	/GAAGCLO	fA- Gs-	LGf 2ss0Cf G	C0C2GGLCMA	f 0CGf - ML- s	/GALGA(sLf - (	GAGCMA	AG2AA	AG2AA	AG2AA
02(AAG2AA	Gf C0(	GAMG O	02LCLC0-	/GA- CMf	f 0sCC-	LGf 2sM(CGL	C0C2GfOCf A	f 0CGf - M0- L	/GALGA(sfO- (	GAsC0-	AG2AA	AG2AA	AG2AA
02(MMA-	Gf C0(	GAMG O	02((AG2AA	/GGLCf 0	fLMGM	LGf 2s- MCC(	C0C2G((CCG	f 0CGf - MAs(	/GALGA(sfA(M	GG(CM(	AG2AA	AG2AA	AG2AA
Top Delaware Sands/Bell Canyon													
02DAAG2AA	Gf C0(	GAMG O	02(OGCCG	/GG(C0A	f (GCf -	LGf 2s- - G-	C0C2G(MCDA	f 0CGf - MA- A	/GALGA(s0s- L	GGCG L	AG2AA	AG2AA	AG2AA
02- AAG2AA	Gf C0(	GAMG O	02C(MGs(	/G00Cf -	f - f GAO	LGf 2s- ACLA	C0C2G- sCMs	f 0CGf - - MCO	/GALGA(s00- L	G0LC0A	AG2AA	AG2AA	AG2AA
02MAAG2AA	Gf C0(	GAMG O	02- (CC0s	/G0sGs(	fsLGO	LGf 2sCf GA0	C0C20AGCf s	f 0CGf - - CC0	/GALGA(sG(- L	Gf GCC-	AG2AA	AG2AA	AG2AA
02sAAG2AA	Gf C0(	GAMG O	02M(f CCf	/Gf - Cf 0	LGCCLO	LGf 2s((CC(	C0C20 0f C0s	f 0CGf - - L(M	/GALGA(sAM- f	Gf sCGf	AG2AA	AG2AA	AG2AA
f 2AAAG2AA	Gf C0(	GAMG O	02s(AGs-	/GLLCCs	Lf MCGO	LGf 2sLMC0M	C0C20LLGGs	f 0CGf - - 0(L	/GALGA(sAG- f	GLOCCA	AG2AA	AG2AA	AG2AA
f 2GAAG2AA	Gf C0(	GAMG O	f 2ALMCf G	/G(0GAO	L(sCM(	LGf 2sLAGsG	C0C20COCCM	f 0CGf - - A(A	/GALGA(MsL- 0	G(LGAO	AG2AA	AG2AA	AG2AA
f 20AAG2AA	Gf C0(	GAMG O	f 2GL(CCL	/G(sCLf	LMGCf (	LGf 2sff Cf L	C0C20MMCf M	f 0CGf - CML(	/GALGA(MM- 0	GCGCf	AG2AA	AG2AA	AG2AA
f 2fAAG2AA	Gf C0(	GAMG O	f 20L0GsM	/GCCCMA	(Af C0(	LGf 2s0CCG-	C0C0f GAGAM	f 0CGf - CCLG	/GALGA(MMA- 0	GCMGs	AG2AA	AG2AA	AG2AA
f 2LAAG2AA	Gf C0(	GAMG O	f 2fLACf 0	/G- LGG-	(0LGs(	LGf 2sGMCMA	C0C0f f GGM	f 0CGf - CLf -	/GALGA(M- f - G	G- CCLO	AG2AA	AG2AA	AG2AA
f 2LMCGs	Gf C0(	GAMG O	f 2L0(CAA	/GMACf M	(Lf C0 0	LGf 2sG0Cs	C0C0f (ACC(	f 0CGf - C0CA	/GALGA(MC- C0	GM0G(	AG2AA	AG2AA	AG2AA
Cherry Canyon													
f 2(AAG2AA	Gf C0(	GAMG O	f 2Lf - CCO	/GMGCf L	(LCCCL	LGf 2sGGCLf	C0C0f (f CL-	f 0CGf - C0f f	/GALGA(MCC- G	GMf Gf	AG2AA	AG2AA	AG2AA
f 2DAAG2AA	Gf C0(	GAMG O	f 2(f (CAA	/GMMGG	(CMCf L	LGf 2sALCAO	C0C0f - (CG-	f 0CGf - CA0s	/GALGA(M(s- G	GsGCs	AG2AA	AG2AA	AG2AA
f 2- AAG2AA	Gf C0(	GAMG O	f 2Cf 0Cf L	/GsCC0M	(sACAL	LGf 2MsCCCs	C0C0f sC0M-	f 0CGf - (M0(	/GALGA(M(0- A	GsM0M0	AG2AA	AG2AA	AG2AA
f 2MAAG2AA	Gf C0(	GAMG O	f 2- 0sCC0M	/0Af CC(	CGGG f	LGf 2MMsCf 0	C0C0LGMCf O	f 0CGf - (C0G	/GALGA(ML(- A	0ACCf 0	AG2AA	AG2AA	AG2AA
f 2sAAG2AA	Gf C0(	GAMG O	f 2M0- CA0	/0GGGAf	Cf f Clf	LGf 2MMGGL	C0C0LLACD0	f 0CGf - (LGO	/GALGA(Mf M0s	0Gf Gs	AG2AA	AG2AA	AG2AA
L2AAAG2AA	Gf C0(	GAMG O	f 2s0LCf O	/0GMCLA	C((CGf	LGf 2M- LC-	C0C0LLOGGsO	f 0CGf - (0G0	/GALGA(Mf GOs	00GC0(	AG2AA	AG2AA	AG2AA
L2GAAG2AA	Gf C0(	GAMG O	L2A0GG A	/00(G-	O- COCf	LGf 2M0- C0A	C0C0LLMf CCO	f 0CGf - (AAM	/GALGA(M0LOs	00MG 0	AG2AA	AG2AA	AG2AA
L20AAG2AA	Gf C0(	GAMG O	L2GGsCAL	/0f f GCL	OsMCf 0	LGf 2M(sCMf	C0C0(A(Cf (	f 0CGf - LMAL	/GALGA(MG- CM	0f CCGM	AG2AA	AG2AA	AG2AA
L2fAAG2AA	Gf C0(	GAMG O	L20GCCf -	/0LACf G	- 0ACC0	LGf 2M(0CLO	C0C0(0- CA(	f 0CGf - LOAA	/GALGA(MGACM	0Lf CC(	AG2AA	AG2AA	AG2AA
L2LAAG2AA	Gf C0(	GAMG O	L2fGf GG	/0L- CMM	- LGGs0	LGf 2ML(CAs	C0C0(LMG(	f 0CGf - Lf sO	/GALGA(MAf CM	0(GCGG	AG2AA	AG2AA	AG2AA
L2(AAG2AA	Gf C0(	GAMG O	L2LGGCA(	/0(((C0(	- Cf CCG	LGf 2Mf - G0	C0C0(- ACLL	f 0CGf - LGs0	/GALGA(- sCC-	0(MCM	AG2AA	AG2AA	AG2AA
L20AAG2AA	Gf C0(	GAMG O	L2(AMCf s	/0C0CC0	- M(Cf G	LGf 2MfACf (	C0C0(s0GCL	f 0CGf - fsM-	/GALGA(- MsO-	0CCCA(	AG2AA	AG2AA	AG2AA

9lneeRpa8r y1REa5 Rt dy

Company:	@d Ryyna eRybE	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di aG8
Project:	. ppEa@dr e E2BUaDBPhaMf T	**TVD Reference:**	0sf (a6) a a0f aN a0s (MCAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	0sf (a6) a a0f aN a0s (MCAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di aG8	**North Reference:**	6 yS
Wellbore:	w8	**Survey Calculation Method:**	USaS r i a@r y1n r yR
Design:	9lneaG	**Database:**	Cnd nlah SRu Slenla9ydpr u Slean x

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)
L2 AAGAA	GfC(	GAMG O	L2CA(Gf	/0OsGGs	MA- GAG	LGf 2M00GM	COCQCGf CML	f0CGf - f - Mf	/GALGA(- MOCO	0- f C{ G	AGAA	AGAA	AGAA
L2MAAGAA	GfC(	GAMG O	L2 Af GA-	/0- - C O	M0MG G	LGf 2MG(CCG	COCQCf (C{ L	f0CGf - f (- s	/GALGA(- - (CO	0MAGsM	AGAA	AGAA	AGAA
L2M0L C{ M	GfC(	GAMG O	L2 0- GAA	/0- sGGM	Mf LGAL	LGf 2MGf Gs	COCQCLA CM+	f0CGf - f (0s	/GALGA(- - f sL	0M0CMG	AGAA	AGAA	AGAA
Brushy Canyon													
L2sAAGAA	GfC(	GAMG O	L2MAACLG	/0MLGf	M(ACLA	LGf 2MAMCL	COCQC(- CDf	f0CGf - ff - (	/GALGA(- CMCO	0MMCLL	AGAA	AGAA	AGAA
(2AAGAA	GfC(	GAMG O	L2Ms - G (	/0s0GGG	M+ 0GGA	LGf 2MAACMO	COCQCO - MGsf	f0CGf - fG- G	/GALGA(- OGG(	0s(GsG	AGAA	AGAA	AGAA
(2GAAGAA	GfC(	GAMG O	L2ss(GAs	/0ssCLM	Msf CMA	LGf 2 sf CLs	COCQ2 - AACCf	f0CGf - 0sO-	/GALGA(- (LQ(	f Af C{ -	AGAA	AGAA	AGAA
(2DAAGAA	GfC(	GAMG O	(2As0CLf	/f ACCM(	sG(C{ A	LGf 2 MCGG0	COCQ2 - 00C{ f	f0CGf - 0 - Cf	/GALGA(- L - C(	f GACML	AGAA	AGAA	AGAA
(2f AAGAA	GfC(	GAMG O	(2GMsG -	/f GLC{ 00	sf - GGs	LGf 2 - MG (	COCQ2 LLGA0	f0CGf - 0 ((M	/GALGA(- LACL	f GMC{ A	AGAA	AGAA	AGAA
(2LAAGAA	GfC(	GAMG O	(2M+ GGA	/f 0G{ s	s(MCMs	LGf 2 - GC M	COCQ2 C(G 0	f0CGf - 0f (L	/GALGA(- ffCL	f 0(G -	AGAA	AGAA	AGAA
(2(AAGAA	GfC(	GAMG O	(2f MLCLL	/f 0MGsO	sMA{ s	LGf 2 CLGAG	COCQ2 M+ CL0	f0CGf - 0G(A	/GALGA(- 0CCL	f f f Cf	AGAA	AGAA	AGAA
(2DAAGAA	GfC(	GAMG O	(2LMGG M	/f f OCf	G2AA0CDM	LGf 2 - (OCCL	COCQ2MAsGGG	f0CGf - GsLO	/GALGA(- GsCf	f LAG A	AGAA	AGAA	AGAA
(2 AAGAA	GfC(	GAMG O	(2(- sGG0	/f Lf G A	G2A0f GsM	LGf 2 - LsC0-	COCQ2Mf ACMG	f0CGf - G - L0	/GALGA(- G0Cf	f LMGG-	AGAA	AGAA	AGAA
(2 sf C{ O	GfC(	GAMG O	(2D - AGAA	/f (AC{ M	G2ALLCDL	LGf 2 - L0C{ s	COCQ2M(GGA-	f0CGf - G((G	/GALGA(- AOAs	f ((GGL	AGAA	AGAA	AGAA
Lower Brushy Canyon													
(2MAAGAA	GfC(	GAMG O	(2D - OCLO	/f (GGA-	G2AL(CCM	LGf 2 - LGGsA	COCQ2M(0C{ G	f0CGf - G(f M	/GALGA(- A(C0	f ((CCf	AGAA	AGAA	AGAA
(2sAAGAA	GfC(	GAMG O	(2 - f CMA	/f (MCLL	G2AO - C M	LGf 2 - f LC{ f	COCQ2M+ LCDG	f0CGf - Gf f L	/GALGA(OsMC0	f CfCGA	AGAA	AGAA	AGAA
C2AAAGAA	GfC(	GAMG O	(2M+ GGCL	/f O(CMG	G2AMsGA-	LGf 2 - 0 - GGO	COCQ2Ms (GsA	f0CGf - GG0s	/GALGA(OsGC0	f - AC{ O	AGAA	AGAA	AGAA
C2GAAGAA	GfC(	GAMG O	(2sCMCLM	/f - f GGM	G2GGAG -	LGf 2 GsGs	COCQ2sG - CCA	f0CGf - As0(	/GALGA(CMLCG	f - MCAf	AGAA	AGAA	AGAA
C2DAAGAA	GfC(	GAMG O	C2AC(CM0	/f MAC{ O	G2Gf 0CL -	LGf 2 - G0CLG	COCQ2sf sC{ A	f0CGf - A - 0G	/GALGA(O - - CG	f M(CLs	AGAA	AGAA	AGAA
C2f AAGAA	GfC(	GAMG O	C2GCf GGO	/f M+ Gsf	G2G(LCG-	LGf 2 - A(CAL	COCQ2sOGGAA	f0CGf - A(G -	/GALGA(O - ACG	f s0GsO	AGAA	AGAA	AGAA
C2LAAGAA	GfC(	GAMG O	C2D OAC{ A	/f s(C{ A	G2G - (CMD	LGf 2Ds - CC -	COCQ2sM0CCs	f0CGf - Af Gf	/GALGA(COf OA	LAACL0	AGAA	AGAA	AGAA
C2L - (C{ G	GfC(	GAMG O	C2f f LCAA	/LAACMO	G2Gs0C(	LGf 2Ds0CGG	COCQ2sssCAM	f0CGf - AG(s	/GALGA(C(M+ G	LACCAO	AGAA	AGAA	AGAA
Bone Spring Lime													
C2(AAGAA	GfC(	GAMG O	C2f (- CMf	/LA0CC-	G2Gs - C{ O	LGf 2DsACCA	C0 - 2AALC{ s	f0CGf - AGAs	/GALGA(O(COA	LA- CMs	AGAA	AGAA	AGAA
C2DAAGAA	GfC(	GAMG O	C2L((CG-	/LGAGAL	G2DGsCDO	LGf 2DM0Gf	C0 - 2A0COAs	f0CGf OssAL	/GALGA(CLsOA	LG(C{ O	AGAA	AGAA	AGAA
C2+ AAGAA	GfC(	GAMG O	C2((0C{ G	/LG - CLG	G2DLAGs(	LGf 2D - (C{ O	C0 - 2AL - G M	f0CGf Os - AA	/GALGA(CL0(s	L00CM0	AGAA	AGAA	AGAA
C2MAAGAA	GfC(	GAMG O	C2CLsCM(	/L0LG M	G2DCOCC(	LGf 2DCMCGs	C0 - 2AOsCLM	f0CGf OsLsO	/GALGA(Cf ((s	Lf ACDs	AGAA	AGAA	AGAA
C2sAAGAA	GfC(	GAMG O	C2+ L - CGs	/Lf 0CG(	G2DMLC(	LGf 2DOACM0	C0 - 2AsGCGM	f0CGf Os0s0	/GALGA(CDM(M	Lf - G (	AGAA	AGAA	AGAA
- 2AAAGAA	GfC(	GAMG O	C2MLLC{ f	/Lf s{ C0	G2f AOCA(	LGf 2O(f CL(	C0 - 2GG0CMM	f0CGf OsAMM	/GALGA(C0G(M	LL(CD0	AGAA	AGAA	AGAA
- 2GAAGAA	GfC(	GAMG O	C2sLGCM+	/LLOCMs	G2f 0 - G L	LGf 2CLOCAM	C0 - 2GfLC{ -	f0CGf OMML	/GALGA(OGL(M	L(0CCM	AGAA	AGAA	AGAA
- 2GG(GAG	GfC(	GAMG O	C2s(CCLM	/LLMCAA	G2f f GCAA	LGf 2CLLG -	C0 - 2Gf - CMf	f0CGf OMM(f	/GALGA(OGf (f	L(f CMA	AGAA	AGAA	AGAA
Start DLS 10.00 TFO 74.87													
- 2G(AGAA	GLC(	G00Cf f	C2ssACL(	/L(GCCL	G2f f MC{ G	LGf 2CLGCf f	C0 - 2GL(C{ L	f0CGf OM+ (0	/GALGA(OGGGA	L(- CLM	GACAA	f G 0	f MG O
- 2DAAGAA	G - CL -	Gf - CGL	- 2Af MC{ f	/LOACC{ G	G2f LMGsf	LGf 2Cf 0CLO	C0 - 2G((G O	f0CGf OM(AM	/GALGA(OA - - L	LCOCs	GACAA	(CML	0sCC0
- 20(AGAA	0GGG-	GL - C M	- 2AM(G 0	/L - f CC0	G2f (MGsG	LGf 2DGsC(	C0 - 2GO(G L	f0CGf OMGL -	/GALGA(OAL(f	L - s C{ L	GACAA	- Cs	0ACLs
- 2f AAGAA	0(C0s	G(LC{ O	- 2Gf GCC-	/LsACCM	G2f OMC -	LGf 2DA0Cs	C0 - 2G - (CDA	f0CGf O - O - 0	/GALGA(OAGLs	LsCCM(	GACAA	MCO	GLC{ O
- 2f (AGAA	0sCCM	G(sGs	- 2G - OCA0	/(GCCG(	G2f - - CDL	LGf 2(MACM0	C0 - 2GMLCA-	f0CGf O - AMO	/GALGA((sMCL	(GMCGO	GACAA	MG -	GACLO

9lneeRpa8r y1REa5Rtdy

Company:	@d Ryyna eRybE	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di aG8
Project:	. ppEa@dr e E2BUaDBPhaMfT	**TVD Reference:**	0sf(a6)a a0faNa0s(MAArvoaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	0sf(a6)a a0faNa0s(MAArvoaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di aG8	**North Reference:**	6yS
Wellbore:	w8	**Survey Calculation Method:**	USaS ri a@ry1n ryR
Design:	9lneaG	**Database:**	@nd nlah SRu Slenla9ydpr u Slealn x

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)
-2LAAGAA	fLG0	GGfGO	-20GMGLL	/(f-GM	GfM(GL(	LGf2(((GGs	G0-2Gs0GM	f0GfGGfs(	/GALGA((sGAG	(LfGG0	GAGAA	sGAM	-GsL
-2L(AGAA	fMGMG	GGGGMs	-20(MGGA	/(GGGAM	GfsGsG(	LGf2(0GGMs	G0-2GssGM	f0GfGG(GAf	/GALGA((sfGG	(-0GG(	GAGAA	sGGM	GGG-
-2L(GGMA	fsGAf	GGGGss	-20GAGAA	/(G-GG-	GfsfGGA	LGf2(0(GMA	G0-20AAGAf	f0GfGG((-f	/GALGA((sf(f	(-fGG(	GAGAA	sGG	(GGA
1st Bone Spring Sand													
-2(AAGAA	LfG-	GGsGL(	-20sGGG	/(sMGG	GfssGGG	LGf2LsLGGG	G0-20AGGLs	f0GfGGL-GG	/GALGA((sGL-	GALGLG	GAGAA	sGL0	(GAs
-2((AGAA	LMG0	G-GG(s	-2ffAG-	/GffGL	G2LA(((	LGf2L(sGGf	G0-20GGGM	f0GfGGf-L0	/GALGA((Ms(s	GfsGM-	GAGAA	sG(G	LGGs
-2GAAGAA	(fGGG	G-fGLL	-2fGGGG	/G-0GGG	G2LGA(-	LGf2L0AGMG	G0-20G-GLA	f0GfGGGGM-	/GALGA((MMAG	G-MG(	GAGAA	sG(M	fGA
-2G(AGAA	(-Gf	G-((A-	-2fsAGsG	/-GfGGA	G2LGLGG-	LGf2f-sGM-	G0-200GG(A	f0GfGGG(GA	/GALGA((MG-G	-GsG0-	GAGAA	sGGf	fGGO
-2-AAGAA	G0G-	G-GG(L	-2LG(GGL	/-(GGLf	G2LG-GML	LGf2ffGG(L	G0-200LGG-	f0GfGAfGs	/GALGA((M(-f	-G0GGA	GAGAA	sGG-	0Gsf
-2-(AGAA	G-GGG	G--GMM	-2LfGGG0	/MAGGsL	G2L0AGAf	LGf20sGGDf	G0-200GMG	f0GfGf(sG0f	/GALGA((M(AG	MA-Gsf	GAGAA	sGA	0GGs
-2MAAGAA	-0GL-	G-sGGL	-2L(fGGM	/MLMGG	G2L0GG0(	LGf20LLGGG	G0-200MGAM	f0GfGf(-M(G	/GALGA((ML-A	M(LGsA	GAGAA	sG0	0G(G
-2M0(GsO	-(GAA	G-sGGO	-2LGAG((	/M-fGGf	G2L0GGLs	LGf20GsGGL	G0-200MG(0	f0GfGf(-GL-	/GALGA((MLG(	M-sGM0	GAGAA	sGf	0GLA
Start DLS 5.00 TFO -0.09													
-2sAAGAA	-MGA	G-sG(	-2L--Gs	/sL(GG	G2L0GGs	LGf2GL-GGO	G0-200MGG0	f0GfG((GG(	/GALGA((MLGG	s(GGsG	(GAA	(GAA	/AGAG
M2AAAGAA	MfGA	G-sG(	-2LsfGAM	/G2ALLG(A	G2L00G00	LGf2ALMGL-	G0-200sGA(	f0GfG(0LLs	/GALGA((ML((	G2A(AGA	(GAA	(GAA	/AGAG
MGGAAGAA	MMGA	G-sGL	-2LssGA	/GGGLLG0(	G2L00GG-	LG02sLMG0	G0-200s(GA	f0GfGLs-A-	/GALGA((MLLs	GGG(AGL(	(GAA	(GAA	/AGAG
MGG0(Gs(	sAGAA	G-sGL	-2LssGs	/GGG-AG0A	G2L00Gs	LG02s00G-	G0-200sGG0	f0GfGLMssL	/GALGA((MLL-	GGG-GGLA	(GAA	(GAA	/AGAG
Start 3455.36 hold at 8125.95 MD													
M0AAGAA	sAGAA	G-sGL	-2LssGs	/G0LLG0(	G2L0fGG0	LG02MLMG0	G0-200sGs(	f0GfGLGs(M	/GALGA((MLLf	G0(AGL(	AGAA	AGAA	AGAA
MfAAGAA	sAGAA	G-sGL	-2LssGs	/GfLLG0(	G2L0f(GM	LG02-LMG0	G0-20fAGLG	f0GfGLL0As	/GALGA((MLfO	GfA(AGL(	AGAA	AGAA	AGAA
M2LAAGAA	sAGAA	G-sGL	-2LssGs	/G2LLLG0(	G2L0LGAL	LG02GLMG0	G0-20fAG0M-	f0GfGLGLGA	/GALGA((MLfA	G2L(AGL(	AGAA	AGAA	AGAA
M(AAGAA	sAGAA	G-sGL	-2LssGs	/G(LLG0(	G2L0L(GA	LG02(LMG0	G0-20fGGf	f0GfGfM-G0	/GALGA((ML0f	G((AGL(	AGAA	AGAA	AGAA
M0AAGAA	sAGAA	G-sGL	-2(AAGAA	/G0LLG0L	G2L0LGsO	LG02LLMGf	G0-20fGGs	f0GfGf(sGf	/GALGA((MLG-	G0O(AGL(	AGAA	AGAA	AGAA
M2AAGAA	sAGAA	G-sGL	-2(AAGAA	/G2-LLG0L	G2L0(GLG	LG02fLMGf	G0-20f0GGL	f0GfGfff0GL	/GALGA((MLGA	G2-(AGL(	AGAA	AGAA	AGAA
M0MAAGAA	sAGAA	G-sGL	-2(AAGAA	/G0MLLG0L	G2L0(GM-	LG02DLMGf	G0-20f0GGA	f0GfGfALG(	/GALGA((MLAL	G0M(AGL(	AGAA	AGAA	AGAA
M0sAAGAA	sAGAA	G-sGL	-2(AAGAA	/G0sLLG0L	G2L0GGGf	LG02GLMGf	G0-20ffGGO	f0GfG0--GO	/GALGA((Mfs-	G0s(AGL(	AGAA	AGAA	AGAA
s20AAGAA	sAGAA	G-sGL	-2(AAGAA	/020ALLG0L	G2L0GGs	LG02ALMGf	G0-20ffGG0	f0GfG0LsO-	/GALGA((MfsG	020(AGL(	AGAA	AGAA	AGAA
s2GAAGAA	sAGAA	G-sGL	-2(AAGAA	/02GLLG0L	G2L0-G0L	LGG2sLMGf	G0-20fLGA-	f0GfG000GM	/GALGA((MfML	02G(AGL(	AGAA	AGAA	AGAA
s20AAGAA	sAGAA	G-sGL	-2(AAGAA	/020LLG0L	G2L0-GGA	LGG2MLMGf	G0-20fLG(f	f0GfGsLGs	/GALGA((Mf-M	020(AGL(	AGAA	AGAA	AGAA
s2fAAGAA	sAGAA	G-sGL	-2(AAGAA	/02fLLG0L	G2L0MG0O	LGG2-LMGf	G0-20fLGGs	f0GfGGG-0A	/GALGA((Mf-G	02f(AGL(	AGAA	AGAA	AGAA
s2LAAGAA	sAGAA	G-sGL	-2(AAGAA	/02LLLG0L	G2L0MG00	LGG2GLMGf	G0-20f(GL(	f0GfGGfs-G	/GALGA((MfG(	02L(AGL(	AGAA	AGAA	AGAA
s2(AAGAA	sAGAA	G-sGL	-2(AAGAA	/02(LLG0L	G2L0sGA-	LGG2(LMGf	G0-20f(GGA	f0GfGG000	/GALGA((Mf(s	02((AGL(	AGAA	AGAA	AGAA
s20AAGAA	sAGAA	G-sGL	-2(AAGAA	/020LLG0f	G2L0s(Gf	LGG2LLMGL	G0-20fGGLO	f0GfGAML-f	/GALGA((Mf(0	020(AGL(	AGAA	AGAA	AGAA
s2-AAGAA	sAGAA	G-sGL	-2(AAGAA	/02-LLG0f	G2L0sGGs	LGG2fLMGL	G0-20fGGM0	f0GfGA(-0(	/GALGA((MfLO	02-(AGL(	AGAA	AGAA	AGAA
s2MAAGAA	sAGAA	G-sGL	-2(AAGAA	/02MLLG0f	G2LfAGL(	LGG2DLMGL	G0-20f-GGM	f0GfGA0s-O	/GALGA((Mfs	02M(AGL(	AGAA	AGAA	AGAA
s2sAAGAA	sAGAA	G-sGL	-2(AAGAA	/02sLLG0f	G2LfAGsG	LGG2GLMGL	G0-20f-GGL	f0GfGAA00-	/GALGA((Mfff	02s(AGL(	AGAA	AGAA	AGAA
GA2AAGAA	sAGAA	G-sGL	-2(AAGAA	/f2ALLG0f	G2LfGGfO	LGG2ALMGL	G0-20fMGGs	f0GG0s-L-M	/GALGA((Mf0O	f2A(AGL(	AGAA	AGAA	AGAA
GA2GAAGAA	sAGAA	G-sGL	-2(AAGAA	/f2GLLG0f	G2LfG0M0	LGA2sLMGL	G0-20fMGG(	f0GG0sL-0s	/GALGA((Mf0A	f2G(AGL(	AGAA	AGAA	AGAA

9lneeRpa8r y1REa5 Rt dy

Company:	@d Ryyna eRybE	**Local Co-ordinate Reference:**	' Rla5 SlRy4RepaGLa+RpRynla@di aG8
Project:	. ppEa@dr e E2BUaDBPhaMf T	**TVD Reference:**	0sf (a6) a a0f aN a0s (MAAr voaD@nur vaG(OT
Site:	5 SlRy4RepaGLa+RpRynla@di	**MD Reference:**	0sf (a6) a a0f aN a0s (MAAr voaD@nur vaG(OT
Well:	5 SlRy4RepaGLa+RpRynla@di aG8	**North Reference:**	6 yS
Wellbore:	w8	**Survey Calculation Method:**	USaS r i a@r y1n r yR
Design:	9lneaG	**Database:**	Cmd nlah SRu Slenla9ydpr u Slealn x

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)
GA20AAGAA	sAGAA	G-sGL	-2(AAGAA	/f20LLG0f	G2Lf0G0M	LGA2MLMG L	C0-20fsGGG	f0G20sGsMA	/GALGA((MGf	f20(AGL(	AGAA	AGAA	AGAA
GA2fAAGAA	sAGAA	G-sGL	-2(AAGAA	/f2fLLG0f	G2Lf0GL	LGA2-LMG L	C0-20fsG¢-	f0G20Ms0fG	/GALGA((MA-	f2f(AGL(	AGAA	AGAA	AGAA
GA2LAAGAA	sAGAA	G-sGL	-2(AAGAA	/f2LLG0f	G2Lff G2s	LGA2GLMG L	C0-20LAGA0	f0G20MGLM0	/GALGA((MfAA	f2L(AGL(	AGAA	AGAA	AGAA
GA2(AAGAA	sAGAA	G-sGL	-2(AAGAA	/f2(LLG0f	G2Lff GG(	LGA2(LMG(	C0-20LAGLM	f0G20Mf-ff	/GALGA((M0sL	f2(AGL(	AGAA	AGAA	AGAA
GA20AAGAA	sAGAA	G-sGL	-2(AAGAA	/f20LLG00	G2Lf LGGG	LGA2LLMG (	C0-20LAGsL	f0G20MAsML	/GALGA((M0M-	f20(AGL(	AGAA	AGAA	AGAA
GA2-AAGAA	sAGAA	G-sGL	-2(AAGAA	/f2-LLG00	G2Lf LG¢-	LGA2fLMG (	C0-20LGGLA	f0G20-M0f(	/GALGA((M0MG	f2-(AGL(	AGAA	AGAA	AGAA
GA2MAAGAA	sAGAA	G-sGL	-2(AAGAA	/f2MLLG00	G2Lf(GA0	LGA20LMG (	C0-20LGGM(	f0G20-(LM0	/GALGA((M0-(	f2M(AGL(	AGAA	AGAA	AGAA
GA2sAAGAA	sAGAA	G-sGL	-2(AAGAA	/f2sLLG00	G2Lf(GLM	LGA2GLMG (	C0-20L0¢G	f0G20-0-fM	/GALGA((M0GM	f2s(AGL(	AGAA	AGAA	AGAA
GG2AAAGAA	sAGAA	G-sGL	-2(AAGAA	/L2ALLG00	G2Lf(GsL	LGA2ALMG (	C0-20L0G-	f0G20OssMs	/GALGA((M0G0	L2A(AGL(	AGAA	AGAA	AGAA
GG2GAAGAA	sAGAA	G-sGL	-2(AAGAA	/L2GLLG00	G2Lf OGLA	LAs2sLMG (	C0-20Lf G0f	f0G20O-0LA	/GALGA((M0((	L2G(AGL(	AGAA	AGAA	AGAA
GG20AAGAA	sAGAA	G-sGL	-2(AAGAA	/L20LLG00	G2Lf OGM(	LAs2MLMG (	C0-20Lf GGM	f0G20OLLsG	/GALGA((M0Ls	L20(AGL(	AGAA	AGAA	AGAA
GG2fAAGAA	sAGAA	G-sGL	-2(AAGAA	/L2fLLG00	G2Lf-G¢G	LAs2-LMG (	C0-20LLGGL	f0G20OG-L0	/GALGA((M0L0	L2f(AGL(	AGAA	AGAA	AGAA
GG2LAAGAA	sAGAA	G-sGL	-2(AAGAA	/L2LLG00	G2Lf-G-	LAs2GLMG (	C0-20LLGGA	f0G20(Mssf	/GALGA((M0fO	L2L(AGL(	AGAA	AGAA	AGAA
GG2(AAGAA	sAGAA	G-sGL	-2(AAGAA	/L2(LLG0G	G2Lf M0f	LAs2(LMG O	C0-20L(GAO	f0G20(C0LL	/GALGA((M00s	L2((AGL(	AGAA	AGAA	AGAA
GG2(MGG0	sAGAA	G-sGL	-2(AAGAA	/L200(¢f	G2Lf MGGA	LAs2LO-GLL	C0-20L(GLf	f0G20(LAAs	/GALGA((M00L	L20fGG O	AGAA	AGAA	AGAA
Start Turn -6.95 - 1st Bone Spring Sand LZ													
GG20AAGAA	sAGAA	G-MGL	-2(AAGAA	/L20LLG0G	G2Lf MGsA	LAs2LLMG O	C0-20L(Gf	f0G20(fLs(	/GALGA((M0GO	L20(AGL(	OGs(	AGAA	/OGs(
GG20(AGAA	sAGAA	G-LGsO	-2(AAGAA	/L20sLG00	G2LLGG-	LAs2fsM0M(	C0-20LMGGA	f0G20(0G0f	/GALGA((MG0-	L2-AAG¢-	OGs(	AGAA	/OGs(
GG2-AAGAA	sAGAA	G-GGLs	-2(AAGAA	/L2-LfGGO	G2LL-GG-	LAs2fLs0GG	C0-20(L¢GA	f0G20(A-(M	/GALGA((-sLG	L2-(AGAL	OGs(	AGAA	/OGs(
GG2-(AGAA	sAGAA	GGMAG	-2(AAGAA	/L2-s0GsO	G2L(OG¢O	LAs2fAAGAG	C0-20Gf G¢s	f0G20LsLA(	/GALGA((-0(M	L2-ssG0-	OGs(	AGAA	/OGs(
GG2MAAGAA	sAGAA	GGL¢L	-2(AAGAA	/L2MLGG¢0	G2LGML0	LAs20(GGL(	C0-20-(G0(	f0G20LMAGs	/GALGA((-0-s	L2ML-G0s	OGs(	AGAA	/OGs(
GG2M(AGAA	sAGAA	GGGGAO	-2(AAGAA	/L2MMsG0M	G2LMfG0G	LAs20Af GGs	C0-20sAGAL	f0G20LO-((	/GALGA((GMA(	L2Ms(GG	OGs(	AGAA	/OGs(
GG2sAAGAA	sAGAA	G(-¢s	-2(AAGAA	/L2sfOGA(	G2(AAG0M(	LAs2G(OGs0	C0-2fA-GGM	f0G20L(LGM	/GALGA((G0fs	L2sL0¢O	OGs(	AGAA	/OGs(
GG2s(AGAA	sAGAA	G(LGGG	-2(AAGAA	/L2sMGGG-	G2(0GG¢G	LAs2GGGG¢A	C0-2f0MGGL	f0G20LL0Gf	/GALGA(((M0	L2sMM0O	OGs(	AGAA	/OGs(
G02AAAGAA	sAGAA	G(AGGL	-2(AAGAA	/(2A0(Gs-	G2(LLGs	LAs2AO-GAA	C0-2f(GG¢0	f0G20L0ssL	/GALGA((LMf-	(2Af0GGO	OGs(	AGAA	/OGs(
G02A(AGAA	sAGAA	GL-GGO	-2(AAGAA	/(2AGMG-	G2(-AGG	LAs2A0L0A	C0-2f--GGL	f0G20LGMG(	/GALGA((LAAO	(2A-(¢M	OGs(	AGAA	/OGs(
G02GAAGAA	sAGAA	GLf GGs	-2(AAGAA	/(2GAsGsL	G2(sM0GM	LAM2sMfGAf	C0-2LA(¢G	f0G20LAGMG	/GALGA((fAsf	(2GG0MO	OGs(	AGAA	/OGs(
G02G(AGAA	sAGAA	GLAG0G	-2(AAGAA	/(2GLsG¢G	G2G0sGLs	LAM2sLfGGO	C0-2Lf G0¢0	f0G20fs(s-	/GALGA((0GAG	(2G(OG¢-	OGs(	AGAA	/OGs(
G02DAAGAA	sAGAA	GfGGL	-2(AAGAA	/(2GM0G¢f	G2G00G0f	LAM2sAG0DL	C0-2LOsGLO	f0G20fM(G0	/GALGA((GAfL	(2GsfGsL	OGs(	AGAA	/OGs(
G02D(AGAA	sAGAA	GffG0O	-2(AAGAA	/(2D00GAs	G2Os-GsM	LAM2M-A0MM	C0-2(ALGMG	f0G20f-(sG	/GALGA((LsMs(	(2D0sGLL	OGs(	AGAA	/OGs(
G02fAAGAA	sAGAA	G0sGGs	-2(AAGAA	/(2D((G0f	G2-f(GLA	LAM2Mf-GL	C0-2(L0Gf	f0G20fG0-M	/GALGA((LM0Ms	(2D0G(G	OGs(	AGAA	/OGs(
G02f(AGAA	sAGAA	G0G0¢G	-2(AAGAA	/(2D0MGGAL	G2-LG-	LAM2MAGGsf	C0-2(MGGGA	f0G20f(M0M	/GALGA(L-L0A	(2DsfGL	OGs(	AGAA	/OGs(
G02f(AGAM	sAGAA	G0G0¢G	-2(AAGAA	/(2D0MGAs	G2-LGMf	LAM2MAG0MM	C0-2(MGGGO	f0G20f(M0-	/GALGA(L-LGM	(2DsfGM	AGAA	AGAA	AGAA
330 No-Perf Entry : 12350.08' MD													
G02LAAGAA	sAGAA	G00GML	-2(AAGAA	/(2fGLGLG	G2MG(Gsf	LAM2-M¢O	C0-2000GO	f0G20f(AL(	/GALGA(LOAsf	(2f00Gs	OGsO	AGAA	/OGsO
G02L(AGAA	sAGAA	GGs¢O	-2(AAGAA	/(2fLAG0L	G2M(MGL	LAM2(0Gf	C0-2G0(¢-	f0G20fLff0	/GALGA((LL-G0	(2fLM¢A	OGs(	AGAA	/OGs(
G02(AAGAA	sAGAA	GG(GMs	-2(AAGAA	/(2fOfGL0	G2sAfGAf	LAM20s¢(	C0-2-AsGMO	f0G20ffOs0	/GALGA(Lf0M	(2f-GG0-	OGs(	AGAA	/OGs(
G02((AGAA	sAGAA	GG0GLG	-2(AAGAA	/(2fMf0M-	G2sLMG0(	LAM2-AsGGA	C0-2-((GLM	f0G20ffG0O	/GALGA(LGMGG	(2fs0¢f	OGs(	AGAA	/OGs(

9lneeRpa8r y1REa5Rt dy

Company:	@d Ryyna eRybE	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di aG8
Project:	. ppEa@dr e E2BUaDBPhaMfT	**TVD Reference:**	0sf (a6) a a0f aN a0s (MCAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	0sf (a6) a a0f aN a0s (MCAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di aG8	**North Reference:**	6 yS
Wellbore:	w8	**Survey Calculation Method:**	USeS r i a@r y1n r yR
Design:	9lneaG	**Database:**	Cmd nlah SRu Sdenla9ydpr u Sdeah x

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
G02DAAGAA	sAGAA	GAMSL	-2(AAGAA	/(2LAGCf	Gss(CL0	LAMDOsGCLL	C0-2MA0C(	f0C0f0CfM	/GALGA(LAfA0	(2LGAGCM	OGs(	AGAA	/OGs(
G02C(AGAA	sAGAA	GA(CLO	-2(AAGAA	/(2LGOCG	02ALfCGM	LAMDO-OCCO	C0-2M(AGAG	f0C0f000M	/GALGA(fM-OG	(2L0(CG-	OGs(	AGAA	/OGs(
G02-AAGAA	sAGAA	GAGGss	-2(AAGAA	/(2L0MCG-	02AsGGL	LAMDOCLCMA	C0-2MsMC-	f0C0fGMsM	/GALGA(f-Gsf	(2Lf-C(	OGs(	AGAA	/OGs(
G02-(AGAA	sAGAA	sMCG	-2(AAGAA	/(2Lf-GA-	02GLAGsf	LAMDO((GsA	C0-2sL-GO	f0C0fGC(A	/GALGA(f(OA(	(2LOCCO	OGs(	AGAA	/OGs(
G02MAAGAA	sAGAA	s(GAL	-2(AAGAA	/(2LL0G-	02GsACM	LAMDO(AGAA	C0-2ss-CLG	f0C0fGLML	/GALGA(fLAA0	(2L(0CLM	OGs(	AGAA	/OGs(
G02M(AGAA	sAGAA	sGCO	-2(AAGAA	/(2LL(CM(	02DLACLs	LAMDCL-GC0	C0MDAL-CC0	f0C0fGLA0	/GALGA(f0fsA	(2L((C-	OGs(	AGAA	/OGs(
G02sAAGAA	sAGAA	MMDAs	-2(AAGAA	/(2LL(GA	02DsACLM	LAMDCL-CD-	C0MDAs-CCG	f0C0fGLA0	/GALGA(fA--(	(2L((CCL	OGs(	AGAA	/OGs(
G02s(AGAA	sAGAA	MLCDG	-2(AAGAA	/(2LL0C0	02fLACC-	LAMDO(ACL(	C0MDGL-CDA	f0C0fGLMD	/GALGA(0sGCf	(2L(0CCM	OGs(	AGAA	/OGs(
Gf2AAAGAA	sAGAA	MGCGL	-2(AAGAA	/(2Lf0C0	02fMsGsM	LAMDO(OCC(	C0MDGsC0MG	f0C0fGC(f	/GALGA(0-(OA	(2LLOCCs	OGs(	AGAA	/OGs(
Gf2A(AGAA	sAGAA	--CDO	-2(AAGAA	/(2L0-GC0	02Lf sCC0	LAMDCC(CM(	C0MDDL(G(	f0C0fGsA0	/GALGA(0(s-0	(2Lf-GG	OGs(	AGAA	/OGs(
Gf2GAAGAA	sAGAA	-LCGs	-2(AAGAA	/(2LGLG-	02LM-CCG	LAMDO-MCAA	C0MDDsLCLL	f0C0f00ff	/GALGA(0LLAL	(2L0(G-	OGs(	AGAA	/OGs(
Gf2G(AGAA	sAGAA	-AGG	-2(AAGAA	/(2fssCMs	02(f(CD-	LAMDOsfGAM	C0MfL0CGA	f0C0f0CLL	/GALGA(00MCf	(2LGAGA	OGs(	AGAA	/OGs(
Gf2DAAGAA	sAGAA	O-CDL	-2(AAGAA	/(2fMGGO	02(MGGL	LAM2-GGGAG	C0MfMMG-	f0C0ffGfL	/GALGA(0Gf((	(2fsfCG-	OGs(	AGAA	/OGs(
Gf2D(AGAA	sAGAA	CfGO	-2(AAGAA	/(2fCG0f	02D0-CLf	LAM2-fGGL	C0MLfLCDO	f0C0ff-AA	/GALGA(GsMMf	(2f-0CCL	OGs(	AGAA	/OGs(
Gf2fAAGAA	sAGAA	OADDs	-2(AAGAA	/(2ff-GM	02D-GC(M	LAM2-((CGs	C0ML-MCLG	f0C0fLfL0	/GALGA(GML((	(2fLsCfs	OGs(	AGAA	/OGs(
Gf2f(AGAA	sAGAA	(CDMG	-2(AAGAA	/(2fGGGA	02-GLCDf	LAM2-MG0D-	C0M(0GGAO	f0C0f(A(O	/GALGA(G-A-(	(2f0fCLs	OGs(	AGAA	/OGs(
Gf2LAAGAA	sAGAA	(fCL	-2(AAGAA	/(2DMfGAM	02-((CD0	LAM2MAsGMs	C0M(C0GA(	f0C0f(Mfs	/GALGA(G(-Ls	(2Ds(GA(	OGs(	AGAA	/OGs(
Gf2LAMGsO	sAGAA	(0G0	-2(AAGAA	/(2D--CGs	02-C0CfM	LAM2MG(CDM	C0M(OsCDG	f0C0f(sM-	/GALGA(G((G-	(2DMsCGs	OGs(	AGAA	/OGs(
330 No-Perf Exit : 13408.96' MD													
Gf2L(AGAA	sAGAA	LsCMO	-2(AAGAA	/(2D(0GAf	02-sLCLA	LAM2MLAGsL	C0M2OAGCDf	f0C0fCOsA	/GALGA(GLLMG	(2DCLCG-	OGs(	AGAA	/OGs(
Gf2(AAGAA	sAGAA	LOCfs	-2(AAGAA	/(2DGMCCO	02MfGCCf	LAM2M-LCfG	C0M2CfMCLO	f0C0f-OA(	/GALGA(Gf0-(	(2DfAGsO	OGs(	AGAA	/OGs(
Gf2(AGAA	sAGAA	L0GsG	-2(AAGAA	/(2GMfGAs	02MCOGsO	LAM2sAsCMM	C0M2O-fCs	f0C0fM(MA	/GALGA(GDGf-	(2Gs(C(	OGs(	AGAA	/OGs(
Gf2DAAGAA	sAGAA	fsCLL	-2(AAGAA	/(2GL(CL-	02MssCD-	LAM2sL-CA	C0M2-AOCA	f0C0fsOG0	/GALGA(GGA-G	(2G(MA-	OGs(	AGAA	/OGs(
Gf2D(AGAA	sAGAA	f(GsO	-2(AAGAA	/(2GA(GsG	02sfAD(	LAM2sM-GAO	C0M2-f-GAM	f0C0DLAOs-	/GALGA(GAAMA	(2GGMC(	OGs(	AGAA	/OGs(
Gf2-AAGAA	sAGAA	f0CLs	-2(AAGAA	/(2AOLCM	02s(MC-	LAs2A0MCs	C0M2-O(CDA	f0C0DLGMfG	/GALGA(AsGCM	(2A--CL	OGs(	AGAA	/OGs(
Gf2-(AGAA	sAGAA	0sGAG-	-2(AAGAA	/(2A0GCCG	02sMfGsf	LAs2A-GCCO	C0M2-sAGO	f0C0DLfAGA	/GALGA(AMfs	(2AfLCs	OGs(	AGAA	/OGs(
Gf2MAAGAA	sAGAA	0(CL	-2(AAGAA	/L2s--CGM	f2AAOCML	LAs2GG(Gs	C0MZMGfC0-	f0C0DLL0fA	/GALGA(A-(s(	L2ssAD(	OGs(	AGAA	/OGs(
Gf2M(AGAA	sAGAA	00GAO	-2(AAGAA	/L2sfGCLL	f2A0-GAG	LAs2GCGCf	C0MZMffCML	f0C0DL(LMD	/GALGA(AOsfs	L2sLLCDA	OGs(	AGAA	/OGs(
Gf2sAAGAA	sAGAA	GMCs	-2(AAGAA	/L2MLCO	f2ALLCCM	LAs2DAMCLG	C0MZM(GDG	f0C0DLO-f	/GALGA(ACf-(	L2Ms-CMA	OGs(	AGAA	/OGs(
Gf2s(AGAA	sAGAA	G(GGG	-2(AAGAA	/L2MfOG0	f2A(MDM-	LAs2D(COD(	C0MZMO(GA	f0C0DLMAMM	/GALGA(A(sA0	L2M(AGA0	OGs(	AGAA	/OGs(
GL2AAAGAA	sAGAA	GGCCL	-2(AAGAA	/L2-MAGAM	f2A-ACCL	LAs2fALCMs	C0MZM-CD-	f0C0DLsL0L	/GALGA(A((0(	L2MAGCLf	OGs(	AGAA	/OGs(
GL2A(AGAA	sAGAA	MCGO	-2(AAGAA	/L2-fMCMf	f2A-sCAL	LAs2f(LCGL	C0MZMM(CM-	f0C0D(A---	/GALGA(A(0Lf	L2-(0CD0	OGs(	AGAA	/OGs(
GL2GAAGAA	sAGAA	LCCs	-2(AAGAA	/L2CMsCG(	f2AMLCCf	LAs2LAfCM0	C0MZMsGCLO	f0C0D(0GL0	/GALGA(A(A(M	L2-A0C-	OGs(	AGAA	/OGs(
GL2GA(C0	sAGAA	LC0	-2(AAGAA	/L2CMfCM(	f2AM(CA(	LAs2LAsCG0	C0MZMsGCMM	f0C0D(00MM	/GALGA(A(ALL	L2Cs-CD-	OGs(	AGAA	/OGs(
Start DLS 2.00 TFO -90.00													
GL2DAAGAA	sAGAA	0CLf	-2(AAGAA	/L2(MsCCL	f2AsACC0	LAs2(AfCCf	C0MZMs-CL(	f0C0D(LMM(	/GALGA(ALM(O	L2CA0GM	0GAA	AGAA	/0GAA
GL2fAAGAA	sAGAA	ACLf	-2(AAGAA	/L2LMsC-	f2AsfCGG	LAs2CAfCCA	C0MZMssGL	f0C0D(-Cf	/GALGA(AL-O-	L2(A0CMf	0GAA	AGAA	/0GAA
GL2fffGM	sAGAA	f(sG(	-2(AAGAA	/L2L(((CLA	f2AsfCCO	LAs2Cf-C-	C0MZMssGs	f0C0D(M(O-	/GALGA(AL-C0	L2LCMZM(	0GAA	AGAA	/0GAA

9lneeRpa8r y1REa5Rt dy

Company:	@d Ryyna eRybE	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di aG8
Project:	. ppEa@dr e E2BUaDBPhaMfT	**TVD Reference:**	0sf (a6) a a0faNa0s (MZAArvoaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	0sf (a6) a a0faNa0s (MZAArvoaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di aG8	**North Reference:**	6 yS
Wellbore:	w8	**Survey Calculation Method:**	USaS r i a@ry1n r yR
Design:	9lneaG	**Database:**	@nd nlah SRu Slenla9ydpr u Slean x

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)
GL2LAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/L2f MsCC-	f 2As0CM4	LAs2 Af CCA	COM2MssG A	f 0CG0OAf M0	/GALGA (AL- CO	L2LA0CMf	AGAA	AGAA	AGAA
GL2 (AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/L2DMsCCM	f 2As0CL0	LAs2MAf Cs	COM2MssCD (	f 0CG0Cf GfG	/GALGA (AL- - 0	L2f A0CMf	AGAA	AGAA	AGAA
GL2DAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/L2GMsCCM	f 2AsGGsM	LAs2sAf Cs	COM2MsMDMG	f 0CG0C (MMA	/GALGA (AL- - M	L2DA0CMf	AGAA	AGAA	AGAA
GL2 AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/L2AMsCCM	f 2AsGC L	LGA2AAf Cs	COM2MsMCC-	f 0CG0CMO0s	/GALGA (AL- ML	L2GA0CMf	AGAA	AGAA	AGAA
GL2MAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/f 2sMsCCM	f 2AsGCGA	LGA2GAf Cs	COM2Ms - Gsf	f 0CG0 - Gf - M	/GALGA (AL- sA	L2AA0CMf	AGAA	AGAA	AGAA
GL2sAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/f 2MMsCCM	f 2AsACCO	LGA20Af Cs	COM2Ms - CLs	f 0CG0 - LG0 -	/GALGA (AL- s (	f 2sA0CMf	AGAA	AGAA	AGAA
G(2AAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/f 2 - MsCCM	f 2AsACDG	LGA2f Af Cs	COM2Ms - GAL	f 0CG0 - OM4 O	/GALGA (ALMAG	f 2MA0CMf	AGAA	AGAA	AGAA
G(2GAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/f 2DMsCCM	f 2AMsG -	LGA2LAf Cs	COM2MsOCCA	f 0CG0 - sC0 (	/GALGA (ALMA -	f 2 - A0CMf	AGAA	AGAA	AGAA
G(2DAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/f 2 (MsCCM	f 2AMsCf	LGA2 (Af Cs	COM2MsOCGO	f 0CG0M0f - f	/GALGA (ALMGf	f 2DA0CMf	AGAA	AGAA	AGAA
G(2f AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/f 2LMsCCM	f 2AMMDMs	LGA2DAf Cs	COM2Ms (G 0	f 0CG0M (G00	/GALGA (ALMGs	f 2 (A0CMf	AGAA	AGAA	AGAA
G(2LAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/f 2f MsCCM	f 2AMMCLL	LGA2 - Af Cs	COM2Ms (C0 -	f 0CG0M - M - G	/GALGA (ALM0L	f 2LA0CMf	AGAA	AGAA	AGAA
G(2 (AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/f 20MsCCs	f 2AMMDAA	LGA2MAf CM	COM2MsL0Mf	f 0CG0sAC0A	/GALGA (ALMf A	f 2f A0CMf	AGAA	AGAA	AGAA
G(2DAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/f 2GMsCCs	f 2AM - CfO	LGA2sAf CM	COM2MsLCCs	f 0CG0sf f Os	/GALGA (ALMf O	f 2DA0CMf	AGAA	AGAA	AGAA
G(2 - AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/f 2AMsCCs	f 2AM - CG0	LGG2AAf CM	COM2MsfG (	f 0CG0sOGGM	/GALGA (ALML0	f 2GA0CMf	AGAA	AGAA	AGAA
G(2MAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/02sMsCCs	f 2AMOCC -	LGG2GAf CM	COM2MsfCA	f 0CG0sMM0 -	/GALGA (ALMLM	f 2AA0CMf	AGAA	AGAA	AGAA
G(2sAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/02MMsCCs	f 2AMOCDf	LGG20Af CM	COM2MsfGA0	f 0CGfAGCGO	/GALGA (ALM (f	02sA0CMf	AGAA	AGAA	AGAA
GO2AAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/02 - MsCCs	f 2AM (Gs	LGGGf Af CM	COM2Ms0CC0	f 0CGfALf O (	/GALGA (ALM (s	02MA0CMf	AGAA	AGAA	AGAA
GO2GAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/02DMsCCs	f 2AM (Cf (	LGG2LAf CM	COM2Ms0CGM	f 0CGfA - GGL	/GALGA (ALMO (	02 - A0CMf	AGAA	AGAA	AGAA
GO2DAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/02 (MsCCs	f 2AMLGsA	LGG2 (Af CM	COM2MsGGsf	f 0CGfAsMOf	/GALGA (ALM - G	02DA0CMf	AGAA	AGAA	AGAA
GO2f AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/02LMsCCs	f 2AMLCLO	LGG2OAf CM	COM2MsGD0s	f 0CGfG0CG0	/GALGA (ALM -	02 (A0CMf	AGAA	AGAA	AGAA
GO2LAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/02fMsCCs	f 2AMLGA0	LGG2 - Af CM	COM2MsAC0M (	f 0CGfG (f OG	/GALGA (ALMM0	02LA0CMf	AGAA	AGAA	AGAA
GO2 (AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/020MsCLA	f 2AMf CM	LGG2MAf C -	COM2MsACLG	f 0CGfGMGAs	/GALGA (ALMMM	02f A0CMf	AGAA	AGAA	AGAA
GO2DAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/02GMsCLA	f 2AMfCGL	LGG2sAf C -	COM2MMsG -	f 0CGf0AM (M	/GALGA (ALMsL	02DA0CMf	AGAA	AGAA	AGAA
GO2 - AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/02AMsCLA	f 2AM0CCs	LG02AAf C -	COM2MMsC0	f 0CGf0f OA -	/GALGA (ALsAA	02GA0CMf	AGAA	AGAA	AGAA
GO2MAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/G2sMsCLA	f 2AM0CD (	LG02GAf C -	COM2MMsGAM	f 0CGf0Cf (O	/GALGA (ALsAO	02AA0CMf	AGAA	AGAA	AGAA
GO2sAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/G2MMsCLA	f 2AMGDMG	LG020Af C -	COM2MMMCCL	f 0CGf0sGA (	/GALGA (ALsG0	G2sA0CMf	AGAA	AGAA	AGAA
G - 2AAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/G2 - MsCLA	f 2AMGC -	LG02f Af C -	COM2MMMDA	f 0CGf f GM (L	/GALGA (ALsG -	G2MA0CMf	AGAA	AGAA	AGAA
G - 2GAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/G2DMsCLA	f 2AMAGs0	LG02LAf C -	COM2MM - G (	f 0CGf f LOAf	/GALGA (ALs0f	G2 - A0CMf	AGAA	AGAA	AGAA
G - 2DAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/G2 (MsCLA	f 2AMACLM	LG02 (Af C -	COM2MM - CfG	f 0CGf f - f (0	/GALGA (ALs0s	G2DA0CMf	AGAA	AGAA	AGAA
G - 2f AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/G2LMsCLA	f 2AMACAL	LG020Af C -	COM2MMOCM -	f 0CGf LAGAG	/GALGA (ALsf (	G2 (A0CMf	AGAA	AGAA	AGAA
G - 2LAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/G2fMsCLA	f 2A - sCCA	LG02 - Af C -	COM2MMOCLf	f 0CGf L0M (A	/GALGA (ALsLG	G2LA0CMf	AGAA	AGAA	AGAA
G - 2 (AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/G2DMsCLG	f 2A - sCG (	LG02MAf CO	COM2MM (GsM	f 0CGf L ((ss	/GALGA (ALsLO	G2f A0CMf	AGAA	AGAA	AGAA
G - 2DAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/G2GMsCLG	f 2A - MCG	LG02sAf CO	COM2MM (CL	f 0CGf LMf LM	/GALGA (ALs (0	G2DA0CMf	AGAA	AGAA	AGAA
G - 2 - AAGAA	sAGAA	f (sG (	- 2 (AAGAA	/G2AMsCLG	f 2A - MD -	LGf 2AAf CO	COM2MM (GCA	f 0CGf (GAsO	/GALGA (ALs (M	G2GA0CMf	AGAA	AGAA	AGAA
G - 2MAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/sMsCLG	f 2A - - 0Mf	LGf 2GAf CO	COM2MMLCCO	f 0CGf (f ML (	/GALGA (ALsCL	G2AA0CMf	AGAA	AGAA	AGAA
G - 2sAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/MMsCLG	f 2A - - CCM	LGf 20Af CO	COM2MMLC0G	f 0CGf (C (sL	/GALGA (ALs - A	sA0CMf	AGAA	AGAA	AGAA
GM2AAAGAA	sAGAA	f (sG (	- 2 (AAGAA	/- MsCLG	f 2A - OGsL	LGf 2f Af CO	COM2MMf G -	f 0CGf (sf Lf	/GALGA (ALs - (	MA0CMf	AGAA	AGAA	AGAA

9lneeRpa8r y1REa5Rt dy

Company:	@d Ryyna eRybE	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di aG8
Project:	. ppEa@dr e E2BUaDBPhaMf T	**TVD Reference:**	0sf (a6) a a0f aN a0s (MCAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	0sf (a6) a a0f aN a0s (MCAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di aG8	**North Reference:**	6 yS
Wellbore:	w8	**Survey Calculation Method:**	USeS ri a@ry1n ryR
Design:	9lneaG	**Database:**	@nd nlah SyRu Slenla9ydpr u Sleah x

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 (°)	Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
GM2GAACAA	sACAA	f (sG (	- 2 (AACAA	/CMsCLG	f 2A- OC¢A	LGf 2LAf C¢O	C0M2MMf Cf	f 0CGf C0As0	/GALCA (ALsMG	- A0CMf	ACAA	ACAA	ACAA
GM20AACAA	sACAA	f (sG (	- 2 (AACAA	/(MsCLG	f 2A- OCAO	LGf 2(Af C¢O	C0M2MM0CMs	f 0CGf CLML G	/GALCA (ALsM-	OA0CMf	ACAA	ACAA	ACAA
GM2f AACAA	sACAA	f (sG (	- 2 (AACAA	/LMsCLG	f 2A- (CC0	LGf 2OAf C¢O	C0M2MM0CL (	f 0CGf O- (sA	/GALCA (ALssf	(A0CMf	ACAA	ACAA	ACAA
GM2LAACAA	sACAA	f (sG (	- 2 (AACAA	/f MsCLG	f 2A- (CG-	LGf 2- Af C¢O	C0M2MM0CAA	f 0CGf - Af f s	/GALCA (ALsss	LA0CMf	ACAA	ACAA	ACAA
GM2LOGCCf	sACAA	f (sG (	- 2 (AACAA	/f 0- GM	f 2A- LGsA	LGf 2- O(CGs	C0M2MMGG f	f 0CGf - 0Af f	/GALCA (A(AA0	f LGCDA	ACAA	ACAA	ACAA
TD at 18461.63													

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
@y1a9Rnga0aD5 SIRy4RepaC /a l neai SvvRvanybRauRe Rya4Ea(sAGCC- r voan aACAAr voaJh aDACAAamVh 2aACAAaB 2aACAAa T /a9dSe	ACAA	ACAA	ACAA	/(2LL- CA(	02O- GCL0	LAM2CL (G0	C0M2A- MC0 (	f 0CG0f Gf O-	/GALCA (f Gf sA
)m9aD5 SIRy4RepaGLa+RpF /a l neai SvvRvanybRauRe Rya4Eaf As0C0r voan aACAAr voaJh aDACAAamVh 2aACAAaB 2aACAAa T /a9dSe	ACAA	ACAA	ACAA	/f 0- GM	f 2A- LGsA	LGf 2- O(CGs	C0M2MMGG f	f 0CGf - 0Af f	/GALCA (A(AA0
+m9aD5 SIRy4RepaGLa+RpF /a l neai SvvRvanybRauRe Rya4EaGLOOCGsr voan aACAAr voaJh aDACAAamVh 2aACAAaB 2aACAAa T /a9dSe	ACAA	ACAA	ACAA	/f L- CL-	G2L0AC¢A	LGf 2- L(C¢A	C0- 2O0- CGf	f 0CGf - GCGA	/GALCA ((ML (s
)99aD5 SIRy4RepaGLa+RpF /a l neai SvvRvanybRauRe Rya4Eaf L(GCAMr voan aACAAr voaJh aDACAAamVh 2aACAAaB 2aACAAa T /a9dSe	ACAA	ACAA	ACAA	/G2((OC¢A	f 2AMACGL	LG02(f OCL-	C0M2MMOCG-	f 0CGf f M0 (O	/GALCA (ALsf -
B9" a0aD5 SIRy4RepaGLa+F /a l neai SvvRvanybRauRe Rya4Ea(s(sCCsr voan aACAAr voaJh aDACAAamVh 2aACAAaB 2aACAAa T /a9dSe	ACAA	ACAA	ACAA	/(2O- sC0A	02- O(CLs	LAM2MGf G-	C0M2(- 0C¢0	f 0CG0f (sL (	/GALCA (G(LG-
)9a@y1a0aD5 SIRy4RepaGLa /a l neai SvvRvanybRauRe Rya4Ea(((LCMCr voan aACAAr voaJh aDACAAamVh 2aACAAaB 2aACAAa T /a9dSe	ACAA	ACAA	ACAA	/L2OGf GsO	f 2Asf C0A	LAs2L- sCAG	C0M2sAACAf	f 0CG0 (L0AM	/GALCA (AL- - (
Kw9aD5 SIRy4RepaGLa+F /a l neai SvvRvanybRauRe Rya4EaLMLLCAMr voan aACAAr voaJh aDACAAamVh 2aACAAaB 2aACAAa T /a9dSe	ACAA	ACAA	ACAA	/L2O0 (C¢f	G2Lf MCCA	LAs2LO- CLL	C0- 2OL (CLf	f 0CG0 (LAAs	/GALCA ((M0L
B9" aGaD5 SIRy4RepaGLa+F /a l neai SvvRvanybRauRe Rya4Ea((- OCCr voan aACAAr voaJh aDACAAamVh 2aACAAaB 2aACAAa T /a9dSe	ACAA	ACAA	ACAA	/(2OMOCG0	G2- (C¢s	LAM2MAOCM (	C0- 2(M0CL0	f 0CG0f (M0O	/GALCA (L- f sf

9lneeRpa8r y1REa5Rt dy

Company:	@d Ryyna eRybE	**Local Co-ordinate Reference:**	' Rla5 SlRy4RepaGLa+RpRynla@di aG8
Project:	. ppEa@dr e E2aBUaDBPhaMf T	**TVD Reference:**	0sf (a6) a a0f aNa0s (MCAAr voaD@nur vaG(OT
Site:	5 SlRy4RepaGLa+RpRynla@di	**MD Reference:**	0sf (a6) a a0f aNa0s (MCAAr voaD@nur vaG(OT
Well:	5 SlRy4RepaGLa+RpRynla@di aG8	**North Reference:**	6 yS
Wellbore:	w8	**Survey Calculation Method:**	USeS r i a@r y1n r yR
Design:	9lneaG	**Database:**	Cmd nlah SyRu Slenla9ydpr u Sleah x

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
G2As0G O	G2AsGCAA	5 r v lRy			
G2(MG0M	G2(- ACAA	mdt a8 nl			
02f sLGsf	02f C0CAA	x nvRa8 nl °) ni ny			
02(MMCA-	02((ACAA	mdt ah RlnF nyRa8 nepv°x Rla@neEde			
f 2LMCGss	f 2L0(CAA	@HRyyEa@neEde			
L2M0LC(M	L2- 0- CAA	x yr vHEa@neEde			
(2- sf C O	(2D- ACAA	) dF Ryax yr vHEa@neEde			
C2L- (C(G	C2f f LCAA	x deRa8 t ya8ba) S R			
- 2L(G0MA	- 2DCACAA	Gv ax deRa8 t ya8ba8 nep			
GG2(MG0C 0	- 2(AACAA	Gv ax deRa8 t ya8ba8 nepa) "			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
(AA	(AA	A	A	3 nyax r Spa0CAA
- (A	- (A	/f	GG	3 nya0(GC0- aHdlpan a (ACAAaUh
GAAG	GAAA	/M	f 0	3 nyah) 3a0CAAam+wa CAs
- GG(	Os(O	/LLM	Gf f G	3 nyah) 3aGACAAam+wa LC0M
- M0O	- LCG	/M- L	GL0G	3 nyah) 3a(CAAam+wa lACAs
MG0O	- (AA	/GG- A	GL0f	3 nyaf L((C CaHdlpan aMG0(G(aUh
GG2(MG	- (AA	/LC0O	GLf s	3 nyamr yealCGs (
G02f (A	- (AA	/(0MO	G- - (	f f AaBd/9Ryca e yEaaG0f (ACAMaUh
Gf 2LAs	- (AA	/(0- M	0- C0	f f AaBd/9Ryca V8aaGf LAMGsOaUh
GL2GA(	- (AA	/LCML	f AM(	3 nyah) 3a0CAAam+wa lsACAA
GM2LC0	- (AA	/f 0M	f A- (	mh an aGMLCGCCf

@HRugRpax E: _____ Pt t yd1Rpax E: _____ h n R: _____

Released to Imaging: 12/5/2025 11:40:11 AM

Received by OCD: 11/21/2025 2:37:57 PM

COTERRA

Coterra Energy
Site: Riverbend 14 Federal Com
Well: Riverbend 14 Federal Com 1H
Wellbore: OH
Design: Plan 1
Rig: Cacuts 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

total

SHL

RKB Elevation: 2935' GL + 23 @ 2958.00usft (Cacuts 156)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	414092.97	625806.83	32.1381261	-104.0604317	

SECTION DETAILS

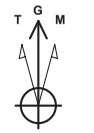
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
750.00	5.00	104.32	749.68	-2.70	10.56	2.00	104.32	2.74	Start 251.27 hold at 750.00 MD
1001.27	5.00	104.32	1000.00	-8.11	31.78	0.00	0.00	8.25	Start DLS 2.00 TFO 7.09
1414.82	13.25	108.76	1407.97	-27.85	94.22	2.00	7.09	28.26	
6955.01	13.25	108.76	6956.48	-448.00	1331.00	0.00	0.00	453.80	Start DLS 10.00 TFO 74.87
7460.96	75.00	179.76	7460.95	-873.62	1421.49	10.00	74.87	879.82	Start DLS 5.00 TFO -0.09
7499.95	90.00	179.74	7499.99	-1170.20	1422.79	5.00	-0.09	1176.40	Start 3455.36 hold at 8125.95 MD
7501.32	90.00	179.74	7500.00	-4625.53	1438.60	0.00	0.00	4631.76	Start Turn -6.95
7505.32	90.00	4.32	7500.00	-4683.85	3085.05	6.95	-90.00	4697.27	Start DLS 2.00 TFO -90.00
7633.98	90.00	359.75	7500.00	-4455.40	3093.16	2.00	-90.00	4468.85	
18461.63	90.00	359.75	7500.00	-327.78	3074.90	0.00	0.00	341.19	TD at 18461.63

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1091.00	1092.76	Rustler
1570.00	1581.28	Top Salt
2362.00	2394.93	Base Salt/Lamar
2550.00	2588.07	Top Delaware Sands/Bell Canyon
3425.00	3486.99	Cherry Canyon
4727.00	4824.58	Brushy Canyon
5670.00	5793.36	Lower Brushy Canyon
6334.00	6475.51	Bone Spring Lime
7260.00	7451.80	1st Bone Spring Sand
7500.00	11581.32	1st Bone Spring Sand LZ

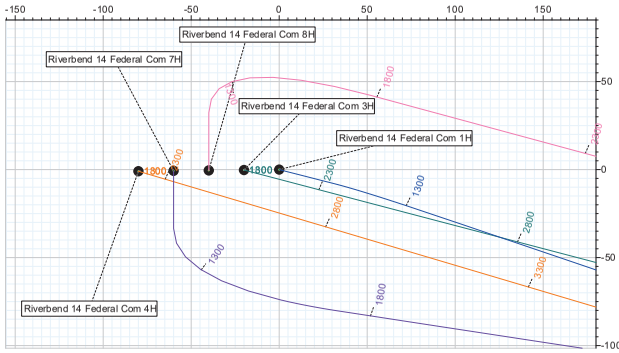
WELLBORE TARGET DETAILS

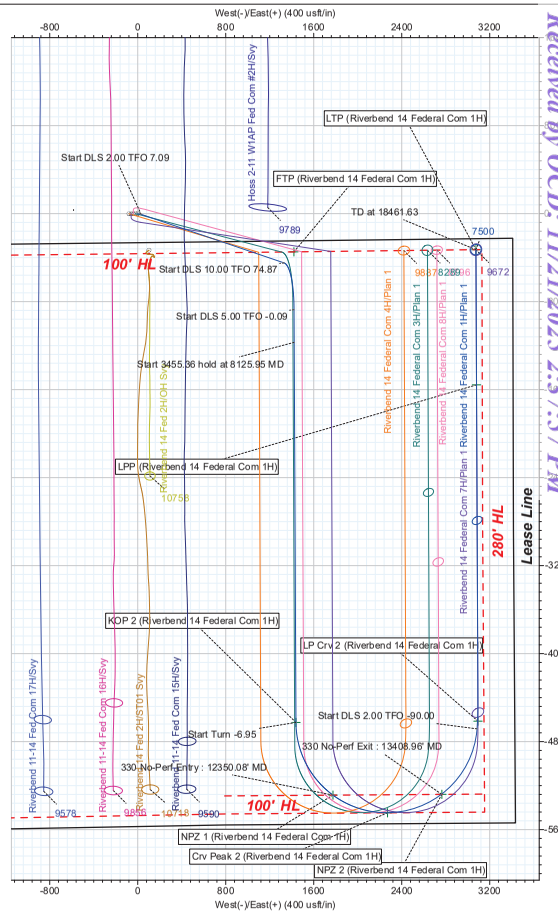
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Crv Peak 2 (Riverbend 14 Federal Com 1H)	0.00	-5447.05	2271.42	408645.92	628078.25	32.1231366	-104.0531391
FTP (Riverbend 14 Federal Com 1H)	0.00	-347.47	1420.30	413745.50	627227.13	32.1371610	-104.0558459
KOP 2 (Riverbend 14 Federal Com 1H)	0.00	-4625.53	1438.60	409467.44	627245.43	32.1254008	-104.0558224
LP Crv 2 (Riverbend 14 Federal Com 1H)	0.00	-4613.96	3093.20	409479.01	628900.03	32.1254206	-104.0504775
LPP (Riverbend 14 Federal Com 1H)	0.00	-1556.50	3080.14	412536.47	628886.97	32.1338256	-104.0504937
LTP (Riverbend 14 Federal Com 1H)	0.00	-327.78	3074.90	413765.19	628881.73	32.1372033	-104.0505002
NPZ 1 (Riverbend 14 Federal Com 1H)	0.00	-5286.12	1775.59	408806.85	627582.42	32.1235825	-104.0547394
NPZ 2 (Riverbend 14 Federal Com 1H)	0.00	-5279.20	2765.49	408813.77	628572.32	32.1235945	-104.0515417

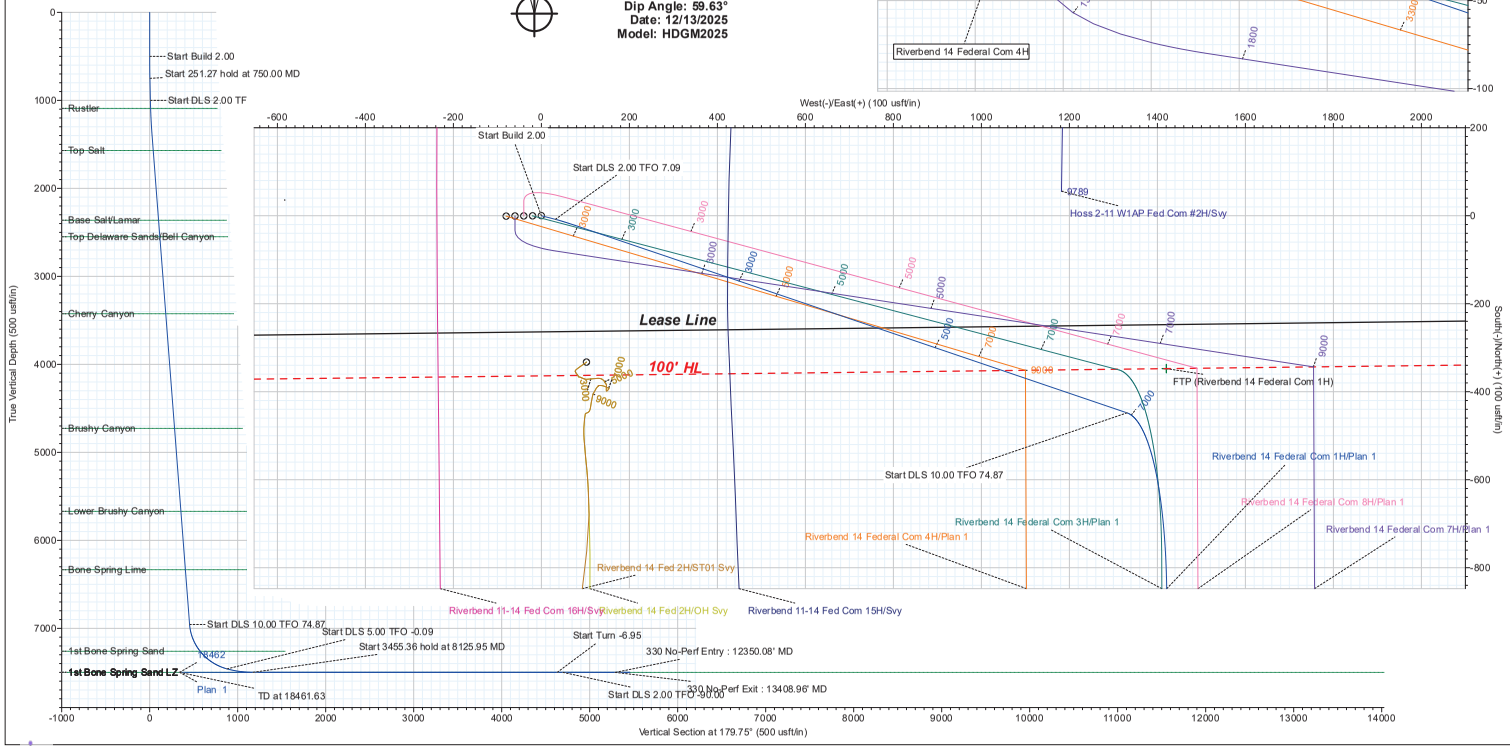


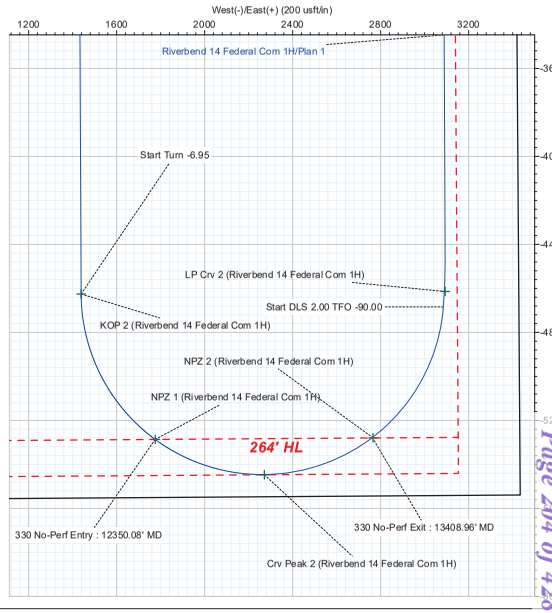
Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.27°

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









Coterra Energy

Eddy County, NM (NAD 83)
Riverbend 14 Federal Com
Riverbend 14 Federal Com 1H

OH
Plan 1

Total Directional
"Driven by TOTAL performance"

Anticollision Report

Minimum Magnetic Interference Warning level is 50' center to center

16 June, 2025

Total Report Version 1.60

COMPASS 5000.16 Build 97

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Well	Riverbend 14 Federal Com 1H						
Well Position	**+N/-S**	0.00 usft	**Northing:**	414,092.97	usft	**Latitude:**	32.1381262
	+E/-W	0.00 usft	**Easting:**	625,806.83	usft	**Longitude:**	-104.0604317
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		usft	**Ground Level:**	2,935.00 usft
Grid Convergence:		0.15 °					

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

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	18,461.64	Plan 1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Offset Listing

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

Summary

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Riverbend 11-14						
Riverbend 11-14 Fed Com 15H - OH - Svy	11,442.50	18,565.74	2,314.23	2,196.88	19.72	CC
Riverbend 11-14 Fed Com 15H - OH - Svy	11,600.00	18,726.74	2,314.62	2,194.96	19.34	ES
Riverbend 11-14 Fed Com 15H - OH - Svy	12,200.00	19,267.73	2,418.09	2,288.70	18.69	SF
Riverbend 11-14 Fed Com 16H - OH - Svy	10,915.97	18,246.90	2,873.90	2,763.33	25.99	CC
Riverbend 11-14 Fed Com 16H - OH - Svy	11,100.00	18,404.00	2,874.96	2,762.01	25.45	ES
Riverbend 11-14 Fed Com 16H - OH - Svy	12,100.00	19,449.94	2,979.15	2,850.96	23.24	SF
Riverbend 11-14 Fed Com 17H - OH - Svy	11,612.15	18,931.18	3,105.30	2,983.81	25.56	CC, ES
Riverbend 11-14 Fed Com 17H - OH - Svy	12,000.00	19,229.23	3,176.09	3,049.58	25.10	SF
Riverbend 11-14 Fed Com 7H - OH - Svy	11,588.65	19,152.00	3,760.38	3,640.26	31.31	CC
Riverbend 11-14 Fed Com 7H - OH - Svy	11,600.00	19,154.70	3,760.45	3,640.23	31.28	ES
Riverbend 11-14 Fed Com 7H - OH - Svy	11,950.00	19,409.88	3,825.59	3,701.05	30.72	SF
Riverbend 14 Fed 2H - OH - OH Svy	0.00	0.00	348.12			
Riverbend 14 Fed 2H - OH - OH Svy	1,808.20	1,788.69	323.15	310.65	25.85	CC
Riverbend 14 Fed 2H - OH - OH Svy	1,900.00	1,879.17	323.67	310.50	24.57	ES
Riverbend 14 Fed 2H - ST01 - ST01 Svy	0.00	0.00	348.12			
Riverbend 14 Fed 2H - ST01 - ST01 Svy	1,808.20	1,788.69	323.15	310.65	25.85	CC
Riverbend 14 Fed 2H - ST01 - ST01 Svy	1,900.00	1,879.17	323.67	310.50	24.57	ES
Riverbend 12-13 Offsets						
Malaga 13 DM Fed Com 1H - OH - Svy	13,950.00	12,983.02	1,125.27	1,016.84	10.38	SF
Malaga 13 DM Fed Com 1H - OH - Svy	14,105.32	12,821.00	1,116.04	1,009.24	10.45	ES
Malaga 13 DM Fed Com 1H - OH - Svy	14,128.08	12,803.55	1,115.92	1,009.28	10.46	CC
Riverbend 14 Federal Com						
Hoss 2-11 W1AP Fed Com #2H - OH - Svy	7,768.52	19,907.00	2,514.56	2,417.23	25.83	CC, ES
Hoss 2-11 W1AP Fed Com #2H - OH - Svy	18,461.64	19,907.00	2,994.81	2,795.54	15.03	SF
Riverbend 14 Federal Com 3H - OH - Plan 1	500.00	500.00	19.99	16.57	5.85	CC, ES
Riverbend 14 Federal Com 3H - OH - Plan 1	7,150.00	7,188.20	246.51	193.02	4.61	SF
Riverbend 14 Federal Com 4H - OH - Plan 1	500.00	501.00	79.98	76.55	23.36	CC, ES
Riverbend 14 Federal Com 4H - OH - Plan 1	7,200.00	7,256.93	362.14	308.25	6.72	SF
Riverbend 14 Federal Com 7H - OH - Plan 1	416.33	417.33	59.98	57.16	21.24	CC
Riverbend 14 Federal Com 7H - OH - Plan 1	4,200.00	4,225.32	70.45	39.31	2.26	ES
Riverbend 14 Federal Com 7H - OH - Plan 1	4,500.00	4,524.95	74.33	40.81	2.22	SF
Riverbend 14 Federal Com 8H - OH - Plan 1	500.00	500.00	39.98	36.56	11.69	CC, ES
Riverbend 14 Federal Com 8H - OH - Plan 1	7,115.01	7,141.44	166.56	112.90	3.10	SF

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	27.96	27.96	0.00	0.04	1.73	4,645.30	140.35	4,647.43				
100.00	100.00	114.54	114.54	0.28	0.18	1.73	4,645.52	140.11	4,647.66	4,647.21	0.46	N/A	
200.00	200.00	201.14	201.13	0.63	0.32	1.72	4,645.99	139.58	4,648.19	4,647.24	0.95	4,870.776	
300.00	300.00	316.75	316.73	0.99	0.73	1.70	4,646.63	138.26	4,648.72	4,646.99	1.73	2,692.557	
400.00	400.00	428.88	428.84	1.35	1.14	1.68	4,646.80	136.10	4,648.80	4,646.31	2.49	1,870.186	
500.00	500.00	508.27	508.22	1.71	1.42	1.66	4,647.04	134.46	4,649.05	4,645.92	3.13	1,486.048	
600.00	599.98	581.47	581.40	2.06	1.68	-102.67	4,647.71	133.13	4,650.27	4,646.53	3.74	1,243.652	
700.00	699.84	672.44	672.35	2.40	2.01	-102.70	4,648.82	131.41	4,652.61	4,648.20	4.41	1,055.339	
750.00	749.68	717.29	717.19	2.58	2.17	-102.73	4,649.45	130.62	4,654.14	4,649.40	4.74	981.227	
800.00	799.49	800.83	800.72	2.75	2.46	-102.83	4,650.47	129.67	4,655.77	4,650.56	5.21	893.839	

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

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Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
900.00	899.11	919.41	919.28	3.10	2.86	-102.93	4,650.72	131.17	4,657.92	4,651.96	5.96	781.748	
1,000.00	998.73	1,027.04	1,026.89	3.46	3.22	-103.02	4,650.89	133.40	4,660.09	4,653.41	6.68	698.134	
1,001.27	1,000.00	1,028.45	1,028.30	3.46	3.22	-103.02	4,650.89	133.44	4,660.11	4,653.43	6.68	697.170	
1,100.00	1,098.18	1,131.83	1,131.66	3.81	3.58	-105.07	4,650.86	135.64	4,662.67	4,655.28	7.39	631.025	
1,200.00	1,197.22	1,224.92	1,224.73	4.18	3.90	-106.26	4,650.88	137.23	4,666.51	4,658.44	8.07	578.302	
1,300.00	1,295.71	1,331.10	1,330.90	4.54	4.27	-107.07	4,650.86	139.11	4,671.56	4,662.76	8.80	530.822	
1,400.00	1,393.53	1,429.08	1,428.85	4.91	4.61	-107.66	4,650.74	141.29	4,677.77	4,668.27	9.51	491.923	
1,414.82	1,407.97	1,441.69	1,441.45	4.97	4.65	-107.73	4,650.73	141.60	4,678.81	4,669.21	9.61	486.957	
1,500.00	1,490.88	1,519.60	1,519.34	5.28	4.92	-107.92	4,650.77	143.60	4,685.00	4,674.80	10.20	459.479	
1,600.00	1,588.22	1,630.37	1,630.10	5.66	5.31	-108.19	4,650.66	145.15	4,692.18	4,681.22	10.96	428.243	
1,700.00	1,685.56	1,718.24	1,717.97	6.04	5.62	-108.43	4,650.49	145.45	4,699.37	4,687.73	11.64	403.777	
1,800.00	1,782.90	1,788.59	1,788.31	6.42	5.86	-108.61	4,650.70	145.65	4,707.13	4,694.87	12.26	383.913	
1,900.00	1,880.24	1,877.80	1,877.53	6.80	6.18	-108.84	4,651.29	145.83	4,715.34	4,702.38	12.95	364.027	
2,000.00	1,977.58	2,036.67	2,036.37	7.18	6.74	-109.23	4,651.41	148.45	4,723.03	4,709.13	13.89	339.922	
2,100.00	2,074.91	2,284.57	2,284.16	7.57	7.60	-109.85	4,645.74	151.17	4,728.29	4,713.16	15.13	312.435	
2,200.00	2,172.25	2,348.00	2,347.54	7.95	7.82	-110.01	4,643.40	151.94	4,732.62	4,716.88	15.74	300.726	
2,300.00	2,269.59	2,407.14	2,406.64	8.34	8.03	-110.15	4,641.68	153.14	4,737.80	4,721.47	16.33	290.164	
2,400.00	2,366.93	2,442.00	2,441.49	8.73	8.15	-110.23	4,641.09	154.02	4,744.24	4,727.41	16.83	281.859	
2,500.00	2,464.27	2,494.00	2,493.47	9.11	8.34	-110.35	4,640.95	155.16	4,751.99	4,734.59	17.40	273.166	
2,600.00	2,561.61	2,558.85	2,558.31	9.50	8.57	-110.51	4,641.44	156.34	4,760.78	4,742.77	18.01	264.405	
2,700.00	2,658.95	2,642.00	2,641.44	9.89	8.86	-110.70	4,642.20	158.04	4,769.88	4,751.20	18.68	255.327	
2,800.00	2,756.29	2,736.00	2,735.41	10.28	9.19	-110.92	4,643.32	160.03	4,779.33	4,759.93	19.40	246.390	
2,900.00	2,853.63	2,781.53	2,780.91	10.67	9.36	-111.02	4,644.18	161.28	4,789.45	4,769.52	19.93	240.263	
3,000.00	2,950.97	2,831.00	2,830.32	11.06	9.53	-111.12	4,645.62	163.33	4,800.62	4,780.13	20.48	234.368	
3,100.00	3,048.31	2,906.97	2,906.10	11.45	9.80	-111.26	4,648.46	167.88	4,812.55	4,791.42	21.13	227.750	
3,200.00	3,145.64	2,999.72	2,998.48	11.84	10.13	-111.41	4,652.36	175.14	4,824.87	4,803.03	21.84	220.897	
3,300.00	3,242.98	3,086.06	3,084.40	12.23	10.44	-111.54	4,656.13	182.80	4,837.34	4,814.81	22.53	214.711	
3,400.00	3,340.32	3,170.53	3,168.33	12.62	10.74	-111.65	4,660.16	191.42	4,850.12	4,826.91	23.21	208.967	
3,500.00	3,437.66	3,321.55	3,318.24	13.01	11.27	-111.83	4,667.06	208.37	4,862.76	4,838.61	24.15	201.377	
3,600.00	3,535.00	3,432.75	3,428.53	13.40	11.67	-111.95	4,671.27	221.85	4,874.49	4,849.56	24.93	195.502	
3,700.00	3,632.34	3,530.47	3,525.58	13.79	12.02	-112.06	4,674.82	232.70	4,886.17	4,860.50	25.67	190.362	
3,800.00	3,729.68	3,624.55	3,619.11	14.19	12.36	-112.18	4,678.22	242.32	4,897.92	4,871.53	26.39	185.605	
3,900.00	3,827.02	3,728.62	3,722.31	14.58	12.73	-112.29	4,682.24	255.11	4,909.78	4,882.63	27.15	180.843	
4,000.00	3,924.36	3,836.55	3,829.13	14.97	13.12	-112.38	4,686.22	269.98	4,921.37	4,893.44	27.93	176.231	
4,100.00	4,021.70	3,967.68	3,958.97	15.36	13.59	-112.50	4,690.68	287.81	4,932.72	4,903.93	28.79	171.319	
4,200.00	4,119.04	4,071.48	4,061.93	15.75	13.97	-112.60	4,693.63	300.66	4,943.61	4,914.06	29.55	167.273	
4,300.00	4,216.37	4,168.04	4,157.86	16.15	14.32	-112.72	4,696.27	311.36	4,954.51	4,924.22	30.29	163.581	
4,400.00	4,313.71	4,268.28	4,257.53	16.54	14.68	-112.84	4,698.92	321.61	4,965.41	4,934.37	31.04	159.991	
4,500.00	4,411.05	4,363.09	4,351.84	16.93	15.02	-112.96	4,701.46	331.02	4,976.39	4,944.63	31.76	156.675	
4,600.00	4,508.39	4,458.95	4,447.21	17.32	15.37	-113.09	4,704.03	340.45	4,987.41	4,954.92	32.49	153.490	
4,700.00	4,605.73	4,544.98	4,532.78	17.72	15.68	-113.20	4,706.53	348.93	4,998.67	4,965.49	33.19	150.625	
4,800.00	4,703.07	14,325.72	9,670.97	18.11	50.84	175.94	-253.33	424.01	4,952.22	4,901.89	50.33	98.392	
4,900.00	4,800.41	14,330.21	9,671.01	18.50	50.87	175.77	-257.81	424.14	4,857.11	4,806.47	50.64	95.917	
5,000.00	4,897.75	14,334.85	9,671.05	18.90	50.89	175.60	-262.45	424.29	4,762.19	4,711.24	50.96	93.457	
5,100.00	4,995.09	14,339.64	9,671.10	19.29	50.92	175.43	-267.24	424.46	4,667.48	4,616.19	51.28	91.013	
5,200.00	5,092.43	14,366.00	9,671.45	19.68	51.07	174.47	-293.57	425.53	4,573.07	4,521.30	51.77	88.340	
5,300.00	5,189.77	14,366.00	9,671.45	20.07	51.07	174.47	-293.57	425.53	4,478.76	4,426.68	52.08	85.994	
5,400.00	5,287.10	14,366.00	9,671.45	20.47	51.07	174.47	-293.57	425.53	4,384.70	4,332.29	52.41	83.664	
5,500.00	5,384.44	14,366.00	9,671.45	20.86	51.07	174.47	-293.57	425.53	4,290.91	4,238.16	52.75	81.350	
5,600.00	5,481.78	14,368.08	9,671.49	21.25	51.08	174.39	-295.65	425.62	4,197.40	4,144.29	53.11	79.031	
5,700.00	5,579.12	14,410.42	9,671.99	21.65	51.33	172.83	-337.95	427.49	4,104.15	4,050.39	53.76	76.346	
5,800.00	5,676.46	14,445.60	9,672.13	22.04	51.54	171.52	-373.09	428.91	4,011.13	3,956.76	54.37	73.774	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,900.00	5,773.80	14,475.27	9,672.06	22.43	51.71	170.40	-402.75	430.01	3,918.39	3,863.43	54.96	71.293	
6,000.00	5,871.14	14,439.27	9,671.97	22.83	51.50	171.75	-366.78	428.59	3,825.97	3,770.85	55.13	69.404	
6,100.00	5,968.48	14,448.23	9,672.03	23.22	51.55	171.42	-375.73	428.96	3,734.03	3,678.42	55.61	67.147	
6,200.00	6,065.82	14,457.19	9,672.10	23.61	51.60	171.08	-384.68	429.34	3,642.49	3,586.38	56.11	64.916	
6,300.00	6,163.16	14,481.50	9,672.12	24.01	51.75	170.16	-408.97	430.29	3,551.28	3,494.55	56.73	62.594	
6,400.00	6,260.50	14,486.64	9,672.13	24.40	51.78	169.96	-414.11	430.50	3,460.61	3,403.36	57.25	60.447	
6,500.00	6,357.83	14,491.94	9,672.15	24.79	51.81	169.76	-419.40	430.72	3,370.45	3,312.66	57.79	58.323	
6,600.00	6,455.17	14,497.41	9,672.18	25.19	51.84	169.56	-424.86	430.96	3,280.85	3,222.50	58.35	56.224	
6,700.00	6,552.51	14,503.05	9,672.22	25.58	51.87	169.34	-430.50	431.20	3,191.86	3,132.91	58.94	54.151	
6,800.00	6,649.85	14,508.88	9,672.27	25.98	51.91	169.12	-436.32	431.46	3,103.51	3,043.95	59.56	52.105	
6,900.00	6,747.19	14,514.89	9,672.32	26.37	51.94	168.89	-442.33	431.73	3,015.88	2,955.67	60.21	50.087	
7,000.00	6,844.53	14,521.11	9,672.39	26.76	51.98	168.65	-448.54	432.02	2,929.02	2,868.12	60.90	48.098	
7,100.00	6,941.87	14,527.54	9,672.46	27.16	52.02	168.41	-454.96	432.32	2,843.00	2,781.38	61.62	46.141	
7,115.01	6,956.48	14,528.52	9,672.48	27.22	52.02	168.37	-455.94	432.37	2,830.17	2,768.44	61.73	45.850	
7,150.00	6,990.45	14,531.56	9,672.52	27.35	52.04	160.72	-458.98	432.51	2,800.38	2,738.39	61.99	45.173	
7,200.00	7,038.53	14,538.47	9,672.62	27.55	52.08	153.80	-465.88	432.85	2,758.36	2,695.96	62.40	44.208	
7,250.00	7,085.72	14,553.00	9,672.86	27.75	52.16	150.47	-480.39	433.58	2,717.26	2,654.41	62.85	43.233	
7,300.00	7,131.67	14,571.95	9,673.18	27.94	52.28	149.33	-499.31	434.54	2,677.37	2,614.03	63.34	42.271	
7,350.00	7,176.02	14,606.84	9,673.62	28.13	52.48	149.05	-534.15	436.26	2,638.87	2,574.94	63.93	41.278	
7,400.00	7,218.44	14,646.77	9,673.86	28.32	52.72	149.35	-574.04	438.14	2,601.98	2,537.43	64.55	40.308	
7,450.00	7,258.60	14,676.67	9,673.93	28.50	52.90	150.17	-603.91	439.46	2,566.97	2,501.86	65.11	39.425	
7,500.00	7,296.21	14,710.15	9,673.93	28.67	53.10	151.03	-637.36	440.83	2,534.15	2,468.46	65.69	38.580	
7,550.00	7,330.97	14,740.00	9,673.89	28.84	53.27	151.94	-667.19	441.94	2,503.72	2,437.49	66.23	37.802	
7,600.00	7,362.62	14,768.04	9,673.93	28.99	53.44	152.80	-695.22	442.96	2,476.02	2,409.27	66.76	37.089	
7,650.00	7,390.91	14,793.93	9,674.18	29.15	53.60	153.57	-721.08	443.95	2,451.37	2,384.11	67.26	36.447	
7,700.00	7,415.64	14,834.00	9,674.94	29.30	53.84	154.16	-761.11	445.57	2,429.99	2,362.16	67.83	35.825	
7,750.00	7,436.62	14,856.70	9,675.53	29.44	53.98	154.74	-783.78	446.52	2,411.89	2,343.61	68.28	35.325	
7,800.00	7,453.68	14,898.17	9,676.72	29.57	54.23	155.16	-825.19	448.31	2,397.18	2,328.36	68.82	34.832	
7,825.96	7,460.95	14,920.13	9,677.40	29.64	54.36	155.34	-847.13	449.29	2,390.90	2,321.80	69.09	34.603	
7,900.00	7,477.79	14,987.53	9,678.81	29.84	54.77	155.53	-914.49	450.43	2,376.52	2,306.61	69.92	33.990	
8,000.00	7,493.08	15,153.05	9,675.54	30.11	55.77	155.35	-1,079.80	443.10	2,362.87	2,291.25	71.61	32.994	
8,100.00	7,499.70	15,237.52	9,673.09	30.38	56.28	155.36	-1,164.20	440.92	2,355.53	2,282.83	72.69	32.404	
8,125.95	7,499.99	15,251.65	9,672.85	30.45	56.37	155.35	-1,178.32	440.59	2,355.15	2,282.24	72.91	32.302	
8,133.96	7,499.99	15,256.01	9,672.79	30.47	56.40	155.35	-1,182.68	440.49	2,355.15	2,282.17	72.98	32.272	
8,200.00	7,499.99	15,303.00	9,672.61	30.65	56.68	155.32	-1,229.66	439.36	2,355.62	2,282.01	73.61	32.002	
8,300.00	7,499.99	15,431.58	9,671.94	30.94	57.48	155.23	-1,358.20	436.35	2,356.46	2,281.47	74.99	31.425	
8,400.00	7,499.99	15,548.88	9,669.33	31.24	58.20	155.15	-1,475.46	434.51	2,355.22	2,278.91	76.31	30.865	
8,500.00	7,499.99	15,638.41	9,667.57	31.56	58.76	155.09	-1,564.96	432.97	2,354.35	2,276.90	77.45	30.399	
8,600.00	7,500.00	15,738.12	9,666.37	31.88	59.39	155.05	-1,664.65	432.32	2,353.73	2,275.06	78.67	29.920	
8,685.21	7,500.00	15,807.47	9,665.56	32.17	59.83	155.03	-1,734.00	431.77	2,353.31	2,273.70	79.61	29.561	
8,700.00	7,500.00	15,817.42	9,665.48	32.22	59.89	155.02	-1,743.94	431.60	2,353.32	2,273.56	79.76	29.505	
8,800.00	7,500.00	15,929.84	9,664.76	32.58	60.60	154.95	-1,856.33	429.08	2,353.96	2,272.84	81.11	29.020	
8,900.00	7,500.00	16,037.64	9,663.49	32.94	61.28	154.92	-1,964.12	428.90	2,353.13	2,270.70	82.43	28.546	
9,000.00	7,500.00	16,123.27	9,662.62	33.32	61.83	154.88	-2,049.74	428.17	2,352.77	2,269.16	83.61	28.140	
9,006.16	7,500.00	16,128.50	9,662.56	33.34	61.86	154.88	-2,054.97	428.08	2,352.77	2,269.09	83.68	28.115	
9,100.00	7,500.00	16,187.94	9,662.06	33.71	62.24	154.83	-2,114.39	426.47	2,353.36	2,268.71	84.65	27.800	
9,200.00	7,500.00	16,378.49	9,660.69	34.11	63.47	154.73	-2,304.80	423.39	2,354.22	2,267.59	86.63	27.175	
9,300.00	7,500.00	16,465.45	9,659.41	34.52	64.04	154.76	-2,391.73	425.39	2,352.11	2,264.27	87.84	26.778	
9,400.00	7,500.00	16,555.47	9,658.21	34.94	64.63	154.76	-2,481.73	426.51	2,350.56	2,261.48	89.08	26.387	
9,500.00	7,500.00	16,656.90	9,656.57	35.37	65.29	154.74	-2,583.15	426.81	2,349.16	2,258.74	90.42	25.979	
9,600.00	7,500.00	16,740.16	9,655.81	35.81	65.84	154.76	-2,666.40	428.34	2,347.81	2,256.18	91.63	25.622	
9,643.49	7,500.00	16,766.07	9,655.69	36.01	66.01	154.75	-2,692.30	428.42	2,347.65	2,255.56	92.09	25.494	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.00	7,500.00	16,805.00	9,655.59	36.26	66.26	154.74	-2,731.23	427.87	2,347.93	2,255.21	92.72	25.323	
9,800.00	7,500.00	16,986.60	9,653.37	36.73	67.46	154.77	-2,912.74	431.35	2,345.60	2,250.94	94.66	24.780	
9,900.00	7,500.00	17,077.07	9,652.20	37.20	68.07	154.82	-3,003.14	434.69	2,343.06	2,247.13	95.93	24.424	
10,000.00	7,500.00	17,192.77	9,650.15	37.68	68.84	154.86	-3,118.77	437.97	2,340.44	2,243.05	97.40	24.030	
10,100.00	7,500.00	17,291.57	9,648.00	38.17	69.51	154.90	-3,217.51	440.98	2,337.38	2,238.63	98.76	23.668	
10,200.00	7,500.00	17,369.00	9,646.87	38.66	70.03	154.93	-3,294.89	443.37	2,334.94	2,234.97	99.97	23.357	
10,300.00	7,500.00	17,488.78	9,645.17	39.17	70.84	154.98	-3,414.60	447.07	2,332.54	2,231.06	101.48	22.985	
10,400.00	7,500.00	17,581.84	9,643.52	39.68	71.47	155.03	-3,507.58	450.48	2,329.59	2,226.77	102.81	22.659	
10,500.00	7,500.00	17,651.00	9,642.88	40.20	71.94	155.05	-3,576.72	452.04	2,327.91	2,223.92	103.98	22.387	
10,600.00	7,500.00	17,745.29	9,642.16	40.73	72.57	155.05	-3,671.00	452.74	2,327.09	2,221.73	105.35	22.089	
10,700.00	7,500.00	17,859.74	9,640.43	41.26	73.35	155.03	-3,785.44	453.27	2,325.70	2,218.82	106.88	21.760	
10,800.00	7,500.00	17,953.54	9,638.96	41.80	73.99	155.02	-3,879.23	453.60	2,324.32	2,216.05	108.26	21.470	
10,900.00	7,500.00	18,061.34	9,636.98	42.35	74.73	154.99	-3,987.01	453.71	2,322.80	2,213.05	109.75	21.164	
11,000.00	7,500.00	18,162.19	9,634.87	42.91	75.42	154.96	-4,087.84	453.67	2,321.11	2,209.91	111.20	20.873	
11,100.00	7,500.00	18,275.37	9,632.20	43.47	76.19	154.91	-4,200.98	453.33	2,319.31	2,206.57	112.75	20.571	
11,200.00	7,500.00	18,366.80	9,629.13	44.03	76.82	154.84	-4,292.36	452.16	2,317.03	2,202.88	114.14	20.299	
11,300.00	7,500.00	18,455.59	9,627.40	44.61	77.43	154.81	-4,381.13	452.06	2,315.49	2,199.98	115.51	20.046	
11,400.00	7,500.00	18,536.61	9,625.41	45.18	77.99	154.75	-4,462.11	450.46	2,314.35	2,197.52	116.83	19.810	
11,442.50	7,500.00	18,565.74	9,625.07	45.43	78.19	154.73	-4,491.23	450.07	2,314.23	2,196.88	117.34	19.722	CC
11,500.00	7,500.00	18,614.20	9,625.04	45.77	78.52	154.72	-4,539.69	449.83	2,314.41	2,196.31	118.11	19.596	
11,581.32	7,500.00	18,705.64	9,625.17	46.24	79.15	154.72	-4,631.13	450.16	2,314.55	2,195.18	119.37	19.390	
11,582.32	7,500.00	18,706.77	9,625.17	46.25	79.16	154.72	-4,632.26	450.16	2,314.55	2,195.17	119.38	19.387	
11,600.00	7,500.00	18,726.74	9,625.13	46.35	79.30	154.72	-4,652.23	450.21	2,314.62	2,194.96	119.66	19.343	ES
11,650.00	7,500.00	18,783.09	9,624.74	46.65	79.69	154.70	-4,708.58	450.03	2,315.61	2,195.15	120.46	19.223	
11,700.00	7,500.00	18,836.90	9,624.29	46.96	80.06	154.69	-4,762.38	449.97	2,317.79	2,196.53	121.27	19.113	
11,750.00	7,500.00	18,885.26	9,623.98	47.27	80.40	154.72	-4,810.75	450.28	2,321.21	2,199.17	122.04	19.020	
11,800.00	7,500.00	18,923.07	9,623.77	47.59	80.66	154.82	-4,848.55	450.33	2,326.12	2,203.36	122.76	18.949	
11,850.00	7,500.00	18,966.00	9,623.57	47.91	80.96	154.94	-4,891.48	449.95	2,332.60	2,209.07	123.53	18.882	
11,900.00	7,500.00	19,024.16	9,623.03	48.23	81.36	154.94	-4,949.63	449.08	2,340.41	2,215.96	124.46	18.805	
11,950.00	7,500.00	19,061.00	9,622.38	48.56	81.62	155.17	-4,986.46	448.50	2,349.34	2,224.12	125.22	18.761	
12,000.00	7,500.00	19,100.24	9,621.86	48.88	81.89	155.43	-5,025.69	447.95	2,359.80	2,233.78	126.02	18.726	
12,050.00	7,500.00	19,126.13	9,621.84	49.20	82.07	155.92	-5,051.58	447.70	2,372.07	2,245.36	126.71	18.721	
12,100.00	7,500.00	19,155.00	9,622.11	49.52	82.27	156.47	-5,080.45	447.51	2,386.07	2,258.64	127.43	18.725	
12,150.00	7,500.00	19,207.91	9,622.60	49.83	82.64	156.74	-5,133.35	447.22	2,401.53	2,273.16	128.38	18.707	
12,200.00	7,500.00	19,267.73	9,622.47	50.14	83.06	156.94	-5,193.17	446.76	2,418.09	2,288.70	129.39	18.688	SF
12,250.00	7,500.00	19,289.47	9,622.30	50.44	83.21	157.81	-5,214.91	446.26	2,436.18	2,306.10	130.08	18.729	
12,300.00	7,500.00	19,307.00	9,622.17	50.74	83.33	158.87	-5,232.43	445.93	2,455.77	2,325.05	130.72	18.787	
12,350.00	7,500.00	19,307.00	9,622.17	51.02	83.33	160.41	-5,232.43	445.93	2,477.14	2,345.96	131.18	18.884	
12,400.00	7,500.00	19,307.00	9,622.17	51.30	83.33	162.12	-5,232.43	445.93	2,500.23	2,368.61	131.62	18.995	
12,450.00	7,500.00	19,307.00	9,622.17	51.56	83.33	164.01	-5,232.43	445.93	2,524.91	2,392.86	132.05	19.121	
12,500.00	7,500.00	19,307.00	9,622.17	51.81	83.33	166.07	-5,232.43	445.93	2,551.05	2,418.58	132.46	19.259	
12,550.00	7,500.00	19,307.00	9,622.17	52.05	83.33	168.29	-5,232.43	445.93	2,578.49	2,445.63	132.86	19.407	
12,600.00	7,500.00	19,307.00	9,622.17	52.27	83.33	170.68	-5,232.43	445.93	2,607.11	2,473.86	133.25	19.565	
12,650.00	7,500.00	19,307.00	9,622.17	52.48	83.33	173.21	-5,232.43	445.93	2,636.77	2,503.14	133.63	19.732	
12,700.00	7,500.00	19,307.00	9,622.17	52.67	83.33	175.88	-5,232.43	445.93	2,667.31	2,533.31	134.00	19.905	
12,750.00	7,500.00	19,307.00	9,622.17	52.84	83.33	178.67	-5,232.43	445.93	2,698.60	2,564.24	134.36	20.085	
12,800.00	7,500.00	19,307.00	9,622.17	53.00	83.33	-178.45	-5,232.43	445.93	2,730.50	2,595.79	134.72	20.268	
12,850.00	7,500.00	19,307.00	9,622.17	53.14	83.33	-175.50	-5,232.43	445.93	2,762.88	2,627.82	135.07	20.456	
12,900.00	7,500.00	19,307.00	9,622.17	53.27	83.33	-172.51	-5,232.43	445.93	2,795.60	2,660.19	135.41	20.646	
12,950.00	7,500.00	19,307.00	9,622.17	53.37	83.33	-169.51	-5,232.43	445.93	2,828.53	2,692.79	135.74	20.838	
13,000.00	7,500.00	19,307.00	9,622.17	53.46	83.33	-166.52	-5,232.43	445.93	2,861.54	2,725.47	136.07	21.030	
13,050.00	7,500.00	19,307.00	9,622.17	53.53	83.33	-163.58	-5,232.43	445.93	2,894.52	2,758.12	136.39	21.222	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,100.00	7,500.00	19,307.00	9,622.17	53.58	83.33	-160.70	-5,232.43	445.93	2,927.34	2,790.63	136.70	21.414	
13,150.00	7,500.00	19,307.00	9,622.17	53.62	83.33	-157.91	-5,232.43	445.93	2,959.89	2,822.88	137.01	21.604	
13,200.00	7,500.00	19,307.00	9,622.17	53.63	83.33	-155.23	-5,232.43	445.93	2,992.06	2,854.76	137.30	21.792	
13,250.00	7,500.00	19,307.00	9,622.17	53.63	83.33	-152.67	-5,232.43	445.93	3,023.75	2,886.16	137.59	21.977	
13,300.00	7,500.00	19,307.00	9,622.17	53.62	83.33	-150.25	-5,232.43	445.93	3,054.86	2,917.00	137.86	22.159	
13,350.00	7,500.00	19,307.00	9,622.17	53.58	83.33	-147.96	-5,232.43	445.93	3,085.29	2,947.16	138.12	22.337	
13,400.00	7,500.00	19,307.00	9,622.17	53.54	83.33	-145.82	-5,232.43	445.93	3,114.95	2,976.58	138.37	22.511	
13,450.00	7,500.00	19,298.74	9,622.23	53.48	83.27	-143.70	-5,224.17	446.09	3,143.75	3,005.23	138.52	22.695	
13,500.00	7,500.00	19,268.00	9,622.47	53.40	83.06	-141.49	-5,193.44	446.67	3,171.35	3,032.93	138.42	22.911	
13,550.00	7,500.00	19,246.51	9,622.60	53.32	82.91	-139.59	-5,171.96	446.94	3,197.65	3,059.23	138.42	23.101	
13,600.00	7,500.00	19,189.80	9,622.49	53.22	82.51	-137.53	-5,115.24	447.33	3,222.39	3,084.35	138.04	23.343	
13,650.00	7,500.00	19,155.00	9,622.11	53.12	82.27	-135.91	-5,080.45	447.51	3,245.29	3,107.39	137.90	23.534	
13,700.00	7,500.00	19,115.52	9,621.82	53.00	82.00	-134.45	-5,040.97	447.79	3,266.44	3,128.73	137.71	23.720	
13,750.00	7,500.00	19,086.00	9,621.99	52.88	81.79	-133.24	-5,011.46	448.13	3,285.90	3,148.28	137.62	23.877	
13,800.00	7,500.00	19,049.36	9,622.61	52.75	81.53	-132.15	-4,974.82	448.69	3,303.57	3,166.10	137.46	24.033	
13,850.00	7,500.00	18,983.96	9,623.46	52.61	81.08	-131.10	-4,909.44	449.69	3,319.04	3,182.03	137.01	24.224	
13,900.00	7,500.00	18,945.43	9,623.66	52.48	80.81	-130.33	-4,870.91	450.19	3,332.24	3,195.39	136.85	24.350	
13,950.00	7,500.00	18,916.86	9,623.80	52.33	80.62	-129.73	-4,842.34	450.34	3,343.48	3,206.69	136.78	24.443	
14,000.00	7,500.00	18,872.00	9,624.05	52.19	80.30	-129.20	-4,797.48	450.18	3,352.80	3,216.23	136.56	24.551	
14,050.00	7,500.00	18,837.37	9,624.28	52.05	80.06	-128.83	-4,762.85	449.97	3,359.90	3,223.45	136.45	24.624	
14,100.00	7,500.00	18,767.97	9,624.88	51.90	79.58	-128.56	-4,693.46	450.13	3,364.45	3,228.45	136.00	24.739	
14,105.32	7,500.00	18,763.29	9,624.92	51.89	79.55	-128.54	-4,688.78	450.15	3,364.78	3,228.81	135.98	24.745	
14,200.00	7,500.00	18,676.55	9,625.14	51.63	78.95	-128.43	-4,602.04	449.98	3,369.44	3,233.86	135.58	24.852	
14,300.00	7,500.00	18,552.95	9,625.18	51.35	78.10	-128.38	-4,478.45	450.21	3,371.22	3,236.36	134.86	24.997	
14,333.98	7,500.00	18,521.52	9,625.69	51.26	77.88	-128.39	-4,447.02	450.73	3,371.17	3,236.44	134.73	25.022	
14,400.00	7,500.00	18,471.98	9,627.00	51.09	77.54	-128.42	-4,397.51	451.83	3,370.89	3,236.30	134.59	25.046	
14,409.67	7,500.00	18,465.85	9,627.15	51.07	77.50	-128.42	-4,391.38	451.93	3,370.89	3,236.31	134.58	25.048	
14,500.00	7,500.00	18,403.00	9,628.41	50.84	77.07	-128.44	-4,328.55	452.21	3,371.34	3,236.91	134.42	25.080	
14,600.00	7,500.00	18,298.34	9,631.39	50.59	76.35	-128.50	-4,223.94	453.00	3,372.18	3,238.24	133.94	25.177	
14,700.00	7,500.00	18,206.86	9,633.95	50.35	75.72	-128.54	-4,132.50	453.67	3,373.00	3,239.41	133.59	25.249	
14,800.00	7,500.00	18,106.99	9,636.04	50.12	75.04	-128.58	-4,032.65	453.70	3,373.93	3,240.77	133.16	25.336	
14,900.00	7,500.00	18,005.23	9,638.08	49.90	74.34	-128.61	-3,930.91	453.67	3,374.86	3,242.12	132.74	25.425	
15,000.00	7,500.00	17,905.61	9,639.68	49.69	73.66	-128.63	-3,831.30	453.47	3,375.68	3,243.34	132.34	25.508	
15,100.00	7,500.00	17,810.63	9,641.26	49.48	73.02	-128.65	-3,736.34	452.98	3,376.77	3,244.78	131.99	25.584	
15,200.00	7,500.00	17,699.12	9,642.61	49.28	72.26	-128.67	-3,624.84	452.53	3,377.48	3,245.98	131.50	25.684	
15,300.00	7,500.00	17,651.00	9,642.88	49.09	71.94	-128.67	-3,576.72	452.04	3,378.62	3,247.06	131.56	25.681	
15,400.00	7,500.00	17,557.00	9,643.94	48.91	71.30	-128.66	-3,482.76	449.59	3,381.01	3,249.78	131.24	25.763	
15,500.00	7,500.00	17,491.56	9,645.13	48.74	70.86	-128.66	-3,417.38	447.17	3,384.43	3,253.29	131.14	25.807	
15,600.00	7,500.00	17,369.00	9,646.87	48.57	70.03	-128.64	-3,294.89	443.37	3,387.37	3,256.77	130.60	25.936	
15,700.00	7,500.00	17,292.16	9,647.99	48.42	69.51	-128.64	-3,218.09	441.00	3,390.38	3,259.94	130.43	25.994	
15,800.00	7,500.00	17,176.42	9,650.53	48.27	68.73	-128.64	-3,102.44	437.57	3,393.73	3,263.76	129.97	26.111	
15,900.00	7,500.00	17,077.92	9,652.19	48.13	68.07	-128.64	-3,003.99	434.71	3,396.71	3,267.06	129.65	26.199	
16,000.00	7,500.00	16,998.00	9,653.21	48.01	67.54	-128.62	-2,924.13	431.80	3,400.01	3,270.54	129.47	26.260	
16,100.00	7,500.00	16,764.40	9,655.70	47.89	66.00	-128.63	-2,690.63	428.43	3,401.18	3,273.05	128.13	26.545	
16,117.16	7,500.00	16,757.75	9,655.73	47.87	65.95	-128.63	-2,683.98	428.44	3,401.15	3,272.99	128.17	26.537	
16,200.00	7,500.00	16,711.00	9,656.00	47.78	65.64	-128.63	-2,637.24	427.80	3,401.85	3,273.64	128.21	26.534	
16,300.00	7,500.00	16,600.53	9,657.49	47.68	64.92	-128.64	-2,526.79	426.66	3,403.19	3,275.35	127.84	26.620	
16,400.00	7,500.00	16,523.00	9,658.65	47.59	64.41	-128.66	-2,449.27	426.23	3,404.23	3,276.49	127.74	26.650	
16,500.00	7,500.00	16,448.02	9,659.65	47.51	63.92	-128.66	-2,374.30	425.04	3,405.97	3,278.31	127.65	26.681	
16,600.00	7,500.00	16,180.33	9,662.09	47.44	62.20	-128.73	-2,106.78	426.75	3,405.76	3,279.65	126.11	27.006	
16,700.00	7,500.00	16,147.00	9,662.36	47.39	61.98	-128.74	-2,073.47	427.71	3,403.87	3,277.46	126.41	26.927	
16,800.00	7,500.00	16,053.00	9,663.33	47.34	61.38	-128.77	-1,979.48	428.86	3,403.21	3,276.98	126.23	26.960	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,821.65	7,500.00	16,053.00	9,663.33	47.33	61.38	-128.77	-1,979.48	428.86	3,403.14	3,276.79	126.35	26.935	
16,900.00	7,500.00	15,988.28	9,664.04	47.31	60.97	-128.78	-1,914.77	428.96	3,403.32	3,277.04	126.27	26.952	
17,000.00	7,500.00	15,825.24	9,665.41	47.29	59.94	-128.84	-1,751.77	431.45	3,402.00	3,276.40	125.60	27.086	
17,100.00	7,500.00	15,772.00	9,665.95	47.28	59.60	-128.85	-1,698.53	432.14	3,401.27	3,275.52	125.75	27.049	
17,200.00	7,500.00	15,670.63	9,667.14	47.28	58.96	-128.88	-1,597.17	432.68	3,401.24	3,275.70	125.54	27.093	
17,300.00	7,500.00	15,561.18	9,669.05	47.30	58.28	-128.93	-1,487.75	434.29	3,400.83	3,275.54	125.30	27.142	
17,355.04	7,500.00	15,519.48	9,670.01	47.31	58.02	-128.95	-1,446.06	434.99	3,400.73	3,275.43	125.30	27.141	
17,400.00	7,500.00	15,469.19	9,671.24	47.33	57.71	-128.97	-1,395.80	435.69	3,400.78	3,275.59	125.19	27.165	
17,500.00	7,500.00	15,303.00	9,672.61	47.37	56.68	-129.04	-1,229.66	439.36	3,398.96	3,274.40	124.56	27.287	
17,600.00	7,500.00	15,241.60	9,673.01	47.43	56.31	-129.06	-1,168.28	440.82	3,397.29	3,272.60	124.69	27.247	
17,700.00	7,500.00	15,078.66	9,677.54	47.50	55.32	-129.19	-1,005.50	446.34	3,396.48	3,272.35	124.13	27.361	
17,800.00	7,500.00	15,022.00	9,678.74	47.59	54.98	-129.24	-948.93	449.13	3,393.95	3,269.63	124.32	27.299	
17,900.00	7,500.00	14,928.00	9,677.66	47.69	54.41	-129.23	-854.98	449.65	3,392.45	3,268.23	124.22	27.310	
17,946.05	7,500.00	14,928.00	9,677.66	47.74	54.41	-129.23	-854.98	449.65	3,392.14	3,267.67	124.47	27.253	
18,000.00	7,500.00	14,912.39	9,677.16	47.81	54.31	-129.22	-839.40	448.94	3,392.53	3,267.90	124.63	27.220	
18,100.00	7,500.00	14,834.00	9,674.94	47.94	53.84	-129.16	-761.11	445.57	3,393.80	3,269.21	124.59	27.239	
18,200.00	7,500.00	14,740.00	9,673.89	48.08	53.27	-129.11	-667.19	441.94	3,395.73	3,271.26	124.47	27.281	
18,300.00	7,500.00	14,672.79	9,673.92	48.25	52.87	-129.08	-600.03	439.30	3,398.37	3,273.85	124.53	27.290	
18,400.00	7,500.00	14,559.35	9,672.98	48.42	52.20	-129.02	-486.73	433.90	3,401.22	3,276.92	124.30	27.364	
18,461.64	7,500.00	14,500.89	9,672.20	48.54	51.86	-128.98	-428.34	431.11	3,402.78	3,278.56	124.23	27.392	
18,462.14	7,500.00	14,500.42	9,672.20	49.47	51.86	-128.98	-427.87	431.09	3,402.80	3,278.55	124.25	27.387	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	29.59	29.59	0.00	0.05	1.48	4,644.90	120.37	4,646.46				
100.00	100.00	122.07	122.07	0.28	0.19	1.48	4,645.03	120.19	4,646.59	4,646.12	0.47	9,889.354	
200.00	200.00	229.58	229.58	0.63	0.42	1.48	4,645.32	119.70	4,646.86	4,645.81	1.05	4,405.383	
300.00	300.00	405.57	405.56	0.99	1.04	1.46	4,643.88	118.40	4,645.97	4,643.93	2.03	2,285.016	
400.00	400.00	506.30	506.27	1.35	1.39	1.46	4,642.20	118.31	4,644.30	4,641.56	2.74	1,692.761	
500.00	500.00	592.01	591.97	1.71	1.69	1.47	4,640.99	118.73	4,642.90	4,639.50	3.40	1,365.015	
600.00	599.98	720.00	719.93	2.06	2.14	-102.89	4,638.83	119.73	4,641.60	4,637.40	4.20	1,105.174	
685.76	685.63	785.02	784.95	2.35	2.37	-102.94	4,637.67	119.93	4,641.05	4,636.33	4.73	982.178	
700.00	699.84	794.04	793.96	2.40	2.41	-102.94	4,637.55	119.93	4,641.07	4,636.26	4.81	965.628	
750.00	749.68	839.00	838.92	2.58	2.57	-102.98	4,637.07	119.78	4,641.41	4,636.27	5.14	902.991	
800.00	799.49	858.17	858.09	2.75	2.63	-103.01	4,636.95	119.67	4,641.98	4,636.60	5.38	862.438	
900.00	899.11	933.00	932.92	3.10	2.90	-103.09	4,636.83	119.09	4,643.75	4,637.75	6.00	774.288	
1,000.00	998.73	1,023.33	1,023.24	3.46	3.21	-103.20	4,637.03	118.11	4,645.92	4,639.26	6.67	696.879	
1,001.27	1,000.00	1,024.64	1,024.56	3.46	3.22	-103.20	4,637.03	118.10	4,645.95	4,639.28	6.68	695.933	
1,100.00	1,098.18	1,150.81	1,150.71	3.81	3.66	-105.33	4,636.85	116.57	4,648.35	4,640.88	7.47	621.937	
1,200.00	1,197.22	1,265.91	1,265.80	4.18	4.07	-106.60	4,636.18	115.27	4,651.61	4,643.37	8.24	564.245	
1,300.00	1,295.71	1,379.47	1,379.35	4.54	4.48	-107.48	4,635.09	114.08	4,655.78	4,646.77	9.01	516.571	
1,400.00	1,393.53	1,483.77	1,483.64	4.91	4.85	-108.14	4,633.86	113.16	4,661.04	4,651.29	9.75	477.908	
1,414.82	1,407.97	1,498.91	1,498.78	4.97	4.91	-108.23	4,633.67	113.03	4,661.92	4,652.06	9.86	472.709	
1,500.00	1,490.88	1,545.44	1,545.31	5.28	5.07	-108.36	4,633.26	112.70	4,667.44	4,657.10	10.34	451.363	
1,600.00	1,588.22	1,594.00	1,593.87	5.66	5.24	-108.49	4,633.23	112.52	4,674.85	4,663.97	10.88	429.566	
1,700.00	1,685.56	1,663.17	1,663.03	6.04	5.48	-108.68	4,633.74	112.30	4,683.13	4,671.64	11.49	407.483	
1,800.00	1,782.90	1,734.50	1,734.36	6.42	5.72	-108.87	4,634.81	111.89	4,692.20	4,680.08	12.11	387.394	
1,900.00	1,880.24	1,814.25	1,814.09	6.80	6.00	-109.10	4,636.32	110.87	4,701.79	4,689.02	12.76	368.378	
2,000.00	1,977.58	1,911.82	1,911.62	7.18	6.33	-109.37	4,638.43	109.14	4,711.76	4,698.28	13.48	349.547	
2,100.00	2,074.91	2,097.03	2,096.72	7.57	6.97	-109.81	4,640.95	113.39	4,721.09	4,706.59	14.50	325.679	
2,200.00	2,172.25	2,329.57	2,329.12	7.95	7.76	-110.34	4,637.33	120.34	4,726.90	4,711.22	15.68	301.492	
2,300.00	2,269.59	2,402.80	2,402.32	8.34	8.02	-110.51	4,635.58	121.87	4,732.60	4,716.28	16.32	290.068	
2,400.00	2,366.93	2,473.99	2,473.49	8.73	8.27	-110.69	4,634.31	122.48	4,738.99	4,722.04	16.95	279.640	
2,500.00	2,464.27	2,559.70	2,559.19	9.11	8.57	-110.91	4,633.10	122.63	4,745.87	4,728.24	17.63	269.181	
2,600.00	2,561.61	2,650.39	2,649.87	9.50	8.89	-111.14	4,631.97	122.89	4,753.01	4,734.67	18.33	259.259	
2,700.00	2,658.95	2,738.98	2,738.46	9.89	9.20	-111.37	4,631.03	123.27	4,760.40	4,741.37	19.03	250.182	
2,800.00	2,756.29	2,845.73	2,845.20	10.28	9.58	-111.64	4,629.85	123.67	4,767.85	4,748.06	19.79	240.942	
2,900.00	2,853.63	2,937.79	2,937.26	10.67	9.90	-111.87	4,628.84	123.98	4,775.40	4,754.90	20.50	232.977	
3,000.00	2,950.97	3,041.51	3,040.97	11.06	10.27	-112.13	4,627.66	124.33	4,783.01	4,761.76	21.25	225.095	
3,100.00	3,048.31	3,138.21	3,137.66	11.45	10.61	-112.38	4,626.45	124.03	4,790.64	4,768.66	21.98	217.993	
3,200.00	3,145.64	3,232.20	3,231.63	11.84	10.95	-112.64	4,625.28	122.46	4,798.47	4,775.77	22.69	211.449	
3,300.00	3,242.98	3,331.71	3,331.07	12.23	11.30	-112.93	4,623.81	119.06	4,806.31	4,782.88	23.43	205.140	
3,400.00	3,340.32	3,411.11	3,410.38	12.62	11.58	-113.18	4,622.71	115.47	4,814.48	4,790.39	24.09	199.836	
3,500.00	3,437.66	3,492.00	3,491.14	13.01	11.86	-113.43	4,621.94	111.00	4,823.24	4,798.48	24.76	194.805	
3,600.00	3,535.00	3,562.31	3,561.30	13.40	12.11	-113.66	4,621.50	106.43	4,832.54	4,807.16	25.39	190.357	
3,700.00	3,632.34	3,634.25	3,633.04	13.79	12.36	-113.90	4,621.22	101.15	4,842.35	4,816.33	26.02	186.108	
3,800.00	3,729.68	3,680.00	3,678.65	14.19	12.52	-114.06	4,621.24	97.48	4,852.93	4,826.38	26.55	182.771	
3,900.00	3,827.02	3,755.47	3,753.81	14.58	12.79	-114.32	4,621.71	90.64	4,864.26	4,837.07	27.19	178.872	
4,000.00	3,924.36	3,817.35	3,815.33	14.97	13.00	-114.55	4,622.54	84.09	4,876.54	4,848.76	27.78	175.521	
4,100.00	4,021.70	3,885.56	3,883.03	15.36	13.24	-114.81	4,623.75	75.84	4,889.60	4,861.20	28.39	172.201	
4,200.00	4,119.04	3,964.00	3,960.71	15.75	13.52	-115.12	4,625.20	65.08	4,903.15	4,874.11	29.04	168.815	
4,300.00	4,216.37	4,040.01	4,035.83	16.15	13.78	-115.43	4,626.70	53.59	4,917.24	4,887.56	29.68	165.651	
4,400.00	4,313.71	4,101.04	4,096.06	16.54	14.00	-115.69	4,628.17	43.86	4,932.09	4,901.83	30.26	162.970	
4,500.00	4,411.05	4,153.00	4,147.31	16.93	14.18	-115.91	4,629.75	35.41	4,947.83	4,917.02	30.80	160.621	
4,600.00	4,508.39	4,225.28	4,218.56	17.32	14.43	-116.21	4,632.37	23.54	4,964.36	4,932.93	31.43	157.973	
4,700.00	4,605.73	4,316.54	4,308.48	17.72	14.75	-116.59	4,636.01	8.38	4,981.47	4,949.35	32.12	155.072	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,703.07	4,410.95	4,401.46	18.11	15.08	-116.99	4,639.61	-7.58	4,998.73	4,965.89	32.84	152.234	
4,900.00	4,800.41	4,500.04	4,489.17	18.50	15.40	-117.36	4,642.98	-22.83	5,016.25	4,982.72	33.53	149.620	
5,000.00	4,897.75	4,595.73	4,583.31	18.90	15.74	-117.76	4,646.55	-39.60	5,034.04	4,999.80	34.25	146.998	
5,100.00	4,995.09	14,510.06	9,897.58	19.29	51.26	172.18	-231.68	-236.51	5,000.39	4,948.22	52.17	95.850	
5,200.00	5,092.43	14,515.84	9,897.68	19.68	51.30	172.03	-237.46	-236.45	4,910.78	4,858.22	52.56	93.440	
5,300.00	5,189.77	14,521.73	9,897.78	20.07	51.33	171.88	-243.34	-236.38	4,821.56	4,768.61	52.95	91.051	
5,400.00	5,287.10	14,527.73	9,897.90	20.47	51.36	171.73	-249.35	-236.31	4,732.76	4,679.40	53.37	88.684	
5,500.00	5,384.44	14,533.86	9,898.01	20.86	51.40	171.57	-255.47	-236.23	4,644.41	4,590.62	53.79	86.339	
5,600.00	5,481.78	14,553.00	9,898.42	21.25	51.51	171.08	-274.61	-235.98	4,556.55	4,502.23	54.32	83.887	
5,700.00	5,579.12	14,553.00	9,898.42	21.65	51.51	171.08	-274.61	-235.98	4,469.14	4,414.41	54.73	81.656	
5,800.00	5,676.46	14,553.00	9,898.42	22.04	51.51	171.08	-274.61	-235.98	4,382.26	4,327.10	55.16	79.446	
5,900.00	5,773.80	14,593.72	9,899.16	22.43	51.74	170.03	-315.32	-235.48	4,295.92	4,240.04	55.87	76.889	
6,000.00	5,871.14	14,627.62	9,899.51	22.83	51.94	169.16	-349.22	-235.16	4,210.09	4,153.54	56.56	74.442	
6,100.00	5,968.48	14,656.28	9,899.62	23.22	52.10	168.41	-377.88	-234.96	4,124.84	4,067.62	57.22	72.085	
6,200.00	6,065.82	14,624.60	9,899.33	23.61	51.92	169.23	-346.20	-235.24	4,040.21	3,982.70	57.51	70.250	
6,300.00	6,163.16	14,668.22	9,899.67	24.01	52.17	168.10	-389.81	-234.85	3,956.36	3,898.05	58.31	67.847	
6,400.00	6,260.50	14,677.60	9,899.69	24.40	52.22	167.85	-399.19	-234.77	3,873.21	3,814.30	58.91	65.747	
6,500.00	6,357.83	14,687.00	9,899.72	24.79	52.28	167.61	-408.59	-234.68	3,790.86	3,731.33	59.53	63.679	
6,600.00	6,455.17	14,696.41	9,899.74	25.19	52.33	167.36	-418.00	-234.57	3,709.35	3,649.18	60.17	61.644	
6,700.00	6,552.51	14,705.85	9,899.76	25.58	52.39	167.12	-427.44	-234.47	3,628.75	3,567.91	60.84	59.644	
6,800.00	6,649.85	14,715.30	9,899.78	25.98	52.44	166.87	-436.89	-234.35	3,549.12	3,487.58	61.53	57.679	
6,900.00	6,747.19	14,724.77	9,899.80	26.37	52.50	166.62	-446.36	-234.22	3,470.52	3,408.26	62.25	55.750	
7,000.00	6,844.53	14,734.27	9,899.82	26.76	52.55	166.37	-455.86	-234.09	3,393.02	3,330.02	63.00	53.860	
7,100.00	6,941.87	14,743.78	9,899.84	27.16	52.61	166.12	-465.37	-233.95	3,316.70	3,252.93	63.77	52.009	
7,115.01	6,956.48	14,745.21	9,899.84	27.22	52.61	166.08	-466.80	-233.93	3,305.36	3,241.47	63.89	51.734	
7,150.00	6,990.45	14,748.62	9,899.85	27.35	52.63	156.81	-470.21	-233.87	3,279.05	3,214.88	64.17	51.098	
7,200.00	7,038.53	14,758.32	9,899.87	27.55	52.69	147.80	-479.90	-233.72	3,241.97	3,177.36	64.61	50.179	
7,250.00	7,085.72	14,772.55	9,899.91	27.75	52.77	142.91	-494.13	-233.48	3,205.73	3,140.65	65.08	49.260	
7,300.00	7,131.67	14,791.23	9,899.95	27.94	52.88	140.62	-512.81	-233.15	3,170.59	3,105.01	65.58	48.349	
7,350.00	7,176.02	14,814.22	9,900.02	28.13	53.02	139.79	-535.80	-232.71	3,136.78	3,070.67	66.11	47.451	
7,400.00	7,218.44	14,834.00	9,900.09	28.32	53.13	139.89	-555.57	-232.30	3,104.53	3,037.92	66.61	46.606	
7,450.00	7,258.60	14,863.17	9,900.18	28.50	53.30	140.28	-584.74	-231.76	3,074.07	3,006.89	67.18	45.762	
7,500.00	7,296.21	14,889.42	9,900.24	28.67	53.46	140.96	-610.98	-231.40	3,045.64	2,977.92	67.72	44.976	
7,550.00	7,330.97	14,918.15	9,900.29	28.84	53.62	141.69	-639.71	-231.16	3,019.42	2,951.15	68.27	44.230	
7,600.00	7,362.62	14,954.71	9,900.33	28.99	53.84	142.35	-676.28	-231.01	2,995.56	2,926.71	68.86	43.505	
7,650.00	7,390.91	14,996.53	9,900.37	29.15	54.09	142.94	-718.10	-230.83	2,974.14	2,904.67	69.47	42.815	
7,700.00	7,415.64	15,041.39	9,900.42	29.30	54.35	143.49	-762.95	-230.60	2,955.25	2,885.17	70.08	42.171	
7,750.00	7,436.62	15,089.21	9,900.52	29.44	54.64	143.98	-810.77	-230.24	2,938.98	2,868.29	70.69	41.575	
7,800.00	7,453.68	15,138.79	9,900.65	29.57	54.93	144.41	-860.35	-229.73	2,925.40	2,854.10	71.29	41.032	
7,825.96	7,460.95	15,165.08	9,900.70	29.64	55.09	144.61	-886.63	-229.47	2,919.43	2,847.83	71.60	40.773	
7,900.00	7,477.79	15,238.55	9,900.73	29.84	55.53	144.84	-960.10	-228.77	2,905.37	2,832.91	72.46	40.095	
8,000.00	7,493.08	15,340.74	9,900.79	30.11	56.14	145.04	-1,062.29	-227.82	2,892.57	2,818.95	73.62	39.292	
8,100.00	7,499.70	15,440.56	9,900.59	30.38	56.75	145.14	-1,162.10	-226.79	2,886.64	2,811.91	74.73	38.629	
8,125.95	7,499.99	15,462.56	9,900.52	30.45	56.88	145.15	-1,184.11	-226.68	2,886.32	2,811.33	74.99	38.491	
8,200.00	7,499.99	15,536.36	9,900.27	30.65	57.33	145.14	-1,257.90	-226.54	2,886.22	2,810.43	75.80	38.078	
8,300.00	7,499.99	15,647.12	9,900.05	30.94	58.01	145.14	-1,368.66	-225.56	2,885.82	2,808.84	76.98	37.490	
8,400.00	7,499.99	15,753.08	9,899.61	31.24	58.67	145.15	-1,474.61	-224.39	2,885.11	2,806.97	78.14	36.921	
8,500.00	7,499.99	15,874.19	9,898.93	31.56	59.42	145.17	-1,595.70	-222.46	2,884.01	2,804.58	79.42	36.312	
8,600.00	7,500.00	15,942.69	9,898.68	31.88	59.85	145.17	-1,664.19	-221.46	2,883.10	2,802.71	80.39	35.865	
8,700.00	7,500.00	16,053.62	9,898.31	32.22	60.55	145.18	-1,775.12	-220.54	2,882.63	2,800.99	81.64	35.309	
8,800.00	7,500.00	16,133.83	9,898.13	32.58	61.06	145.18	-1,855.33	-219.79	2,882.17	2,799.46	82.71	34.846	
8,900.00	7,500.00	16,254.42	9,898.04	32.94	61.82	145.19	-1,975.90	-218.43	2,881.74	2,797.68	84.06	34.284	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	16,351.69	9,897.77	33.32	62.44	145.21	-2,073.17	-217.01	2,880.93	2,795.67	85.26	33.789	
9,100.00	7,500.00	16,445.01	9,897.33	33.71	63.04	145.21	-2,166.48	-216.21	2,880.32	2,793.86	86.46	33.314	
9,200.00	7,500.00	16,539.38	9,896.95	34.11	63.65	145.21	-2,260.85	-215.54	2,879.85	2,792.17	87.68	32.847	
9,243.79	7,500.00	16,574.09	9,896.80	34.29	63.87	145.20	-2,295.55	-215.51	2,879.78	2,791.61	88.17	32.662	
9,300.00	7,500.00	16,622.30	9,896.53	34.52	64.18	145.19	-2,343.77	-215.84	2,879.89	2,791.06	88.83	32.420	
9,400.00	7,500.00	16,751.54	9,895.45	34.94	65.02	145.18	-2,472.99	-215.42	2,879.17	2,788.86	90.31	31.881	
9,500.00	7,500.00	16,852.61	9,894.95	35.37	65.68	145.17	-2,574.07	-214.85	2,878.70	2,787.09	91.61	31.424	
9,600.00	7,500.00	16,954.96	9,893.86	35.81	66.35	145.17	-2,676.41	-214.01	2,877.62	2,784.69	92.92	30.967	
9,700.00	7,500.00	17,033.65	9,893.51	36.26	66.86	145.16	-2,755.09	-213.46	2,877.12	2,783.03	94.09	30.580	
9,714.75	7,500.00	17,045.06	9,893.45	36.33	66.94	145.16	-2,766.50	-213.48	2,877.11	2,782.85	94.26	30.524	
9,800.00	7,500.00	17,136.10	9,892.78	36.73	67.53	145.13	-2,857.54	-214.29	2,877.26	2,781.83	95.43	30.151	
9,900.00	7,500.00	17,269.25	9,891.50	37.20	68.41	145.12	-2,990.67	-213.49	2,876.36	2,779.37	96.99	29.657	
10,000.00	7,500.00	17,370.00	9,890.04	37.68	69.08	145.12	-3,091.40	-212.33	2,874.77	2,776.44	98.33	29.236	
10,075.04	7,500.00	17,400.73	9,889.38	38.04	69.29	145.10	-3,122.12	-212.69	2,874.25	2,775.22	99.03	29.024	
10,100.00	7,500.00	17,409.49	9,889.19	38.17	69.34	145.09	-3,130.88	-212.98	2,874.36	2,775.11	99.25	28.961	
10,200.00	7,500.00	17,464.00	9,888.11	38.66	69.70	145.02	-3,185.24	-216.65	2,876.40	2,776.12	100.28	28.684	
10,300.00	7,500.00	17,526.01	9,887.84	39.17	70.12	144.94	-3,247.09	-221.00	2,879.98	2,778.62	101.36	28.413	
10,400.00	7,500.00	17,766.00	9,890.01	39.68	71.72	144.98	-3,487.01	-218.97	2,879.53	2,775.78	103.75	27.754	
10,500.00	7,500.00	17,868.15	9,890.26	40.20	72.41	145.03	-3,589.11	-215.84	2,878.23	2,773.11	105.13	27.379	
10,600.00	7,500.00	17,963.20	9,890.80	40.73	73.05	145.08	-3,684.10	-212.64	2,877.03	2,770.58	106.45	27.026	
10,700.00	7,500.00	18,068.66	9,891.14	41.26	73.77	145.12	-3,789.52	-209.61	2,875.91	2,768.05	107.86	26.663	
10,800.00	7,500.00	18,162.05	9,891.22	41.80	74.40	145.16	-3,882.87	-206.69	2,874.49	2,765.30	109.19	26.325	
10,900.00	7,500.00	18,234.30	9,891.56	42.35	74.89	145.19	-3,955.10	-205.17	2,873.91	2,763.54	110.38	26.037	
10,915.97	7,500.00	18,246.90	9,891.62	42.44	74.98	145.19	-3,967.70	-205.01	2,873.90	2,763.33	110.58	25.990	CC
11,000.00	7,500.00	18,310.00	9,891.89	42.91	75.41	145.19	-4,030.79	-204.65	2,874.17	2,762.57	111.59	25.756	
11,100.00	7,500.00	18,404.00	9,892.43	43.47	76.05	145.19	-4,124.79	-204.77	2,874.96	2,762.01	112.95	25.453	ES
11,200.00	7,500.00	18,475.57	9,892.94	44.03	76.54	145.18	-4,196.35	-205.54	2,876.42	2,762.28	114.14	25.201	
11,300.00	7,500.00	18,565.45	9,893.18	44.61	77.15	145.13	-4,286.19	-208.25	2,878.61	2,763.13	115.48	24.927	
11,400.00	7,500.00	18,691.84	9,892.09	45.18	78.01	145.02	-4,412.47	-213.49	2,880.57	2,763.44	117.13	24.593	
11,500.00	7,500.00	18,795.85	9,891.46	45.77	78.72	144.96	-4,516.42	-216.73	2,882.14	2,763.54	118.60	24.302	
11,581.32	7,500.00	18,873.00	9,891.13	46.24	79.25	144.92	-4,593.56	-218.37	2,883.06	2,763.33	119.73	24.080	
11,600.00	7,500.00	18,895.08	9,891.08	46.35	79.41	144.93	-4,615.64	-218.78	2,883.39	2,763.37	120.03	24.023	
11,650.00	7,500.00	18,933.88	9,890.99	46.65	79.67	145.00	-4,654.42	-219.70	2,885.64	2,764.97	120.66	23.915	
11,700.00	7,500.00	18,983.02	9,890.89	46.96	80.01	145.12	-4,703.54	-221.16	2,889.80	2,768.40	121.40	23.804	
11,750.00	7,500.00	19,073.68	9,890.37	47.27	80.64	145.14	-4,794.18	-222.70	2,895.15	2,772.67	122.48	23.638	
11,800.00	7,500.00	19,110.87	9,890.15	47.59	80.89	145.39	-4,831.37	-223.11	2,902.12	2,778.97	123.14	23.567	
11,850.00	7,500.00	19,156.00	9,890.00	47.91	81.20	145.67	-4,876.49	-223.78	2,911.03	2,787.16	123.88	23.499	
11,900.00	7,500.00	19,201.49	9,889.82	48.23	81.52	146.01	-4,921.97	-224.54	2,921.72	2,797.10	124.63	23.444	
11,950.00	7,500.00	19,261.46	9,889.28	48.56	81.93	146.31	-4,981.93	-225.52	2,933.97	2,808.47	125.50	23.378	
12,000.00	7,500.00	19,327.10	9,888.71	48.88	82.39	146.61	-5,047.58	-225.87	2,947.67	2,821.25	126.42	23.317	
12,050.00	7,500.00	19,399.04	9,888.33	49.20	82.89	146.90	-5,119.50	-224.95	2,962.73	2,835.35	127.38	23.259	
12,100.00	7,500.00	19,449.94	9,888.19	49.52	83.25	147.45	-5,170.38	-223.43	2,979.15	2,850.96	128.19	23.240	SF
12,150.00	7,500.00	19,474.24	9,888.13	49.83	83.42	148.35	-5,194.67	-222.81	2,997.40	2,868.60	128.80	23.271	
12,200.00	7,500.00	19,505.13	9,888.02	50.14	83.63	149.29	-5,225.56	-222.29	3,017.49	2,888.03	129.46	23.308	
12,250.00	7,500.00	19,524.00	9,887.95	50.44	83.76	150.51	-5,244.43	-221.98	3,039.28	2,909.26	130.03	23.374	
12,300.00	7,500.00	19,524.00	9,887.95	50.74	83.76	152.16	-5,244.43	-221.98	3,063.00	2,932.57	130.43	23.484	
12,350.00	7,500.00	19,524.00	9,887.95	51.02	83.76	154.00	-5,244.43	-221.98	3,088.57	2,957.75	130.82	23.610	
12,400.00	7,500.00	19,524.00	9,887.95	51.30	83.76	156.05	-5,244.43	-221.98	3,115.85	2,984.66	131.19	23.751	
12,450.00	7,500.00	19,524.00	9,887.95	51.56	83.76	158.32	-5,244.43	-221.98	3,144.69	3,013.15	131.54	23.906	
12,500.00	7,500.00	19,524.00	9,887.95	51.81	83.76	160.79	-5,244.43	-221.98	3,174.96	3,043.07	131.88	24.074	
12,550.00	7,500.00	19,524.00	9,887.95	52.05	83.76	163.48	-5,244.43	-221.98	3,206.49	3,074.28	132.21	24.253	
12,600.00	7,500.00	19,524.00	9,887.95	52.27	83.76	166.37	-5,244.43	-221.98	3,239.14	3,106.62	132.53	24.442	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,650.00	7,500.00	19,524.00	9,887.95	52.48	83.76	169.46	-5,244.43	-221.98	3,272.76	3,139.93	132.83	24.639	
12,700.00	7,500.00	19,524.00	9,887.95	52.67	83.76	172.72	-5,244.43	-221.98	3,307.20	3,174.08	133.12	24.843	
12,750.00	7,500.00	19,524.00	9,887.95	52.84	83.76	176.13	-5,244.43	-221.98	3,342.30	3,208.90	133.41	25.053	
12,800.00	7,500.00	19,524.00	9,887.95	53.00	83.76	179.66	-5,244.43	-221.98	3,377.92	3,244.24	133.68	25.268	
12,850.00	7,500.00	19,524.00	9,887.95	53.14	83.76	-176.74	-5,244.43	-221.98	3,413.92	3,279.97	133.95	25.487	
12,900.00	7,500.00	19,524.00	9,887.95	53.27	83.76	-173.10	-5,244.43	-221.98	3,450.14	3,315.94	134.21	25.708	
12,950.00	7,500.00	19,524.00	9,887.95	53.37	83.76	-169.47	-5,244.43	-221.98	3,486.46	3,352.00	134.45	25.931	
13,000.00	7,500.00	19,524.00	9,887.95	53.46	83.76	-165.90	-5,244.43	-221.98	3,522.73	3,388.04	134.69	26.154	
13,050.00	7,500.00	19,524.00	9,887.95	53.53	83.76	-162.41	-5,244.43	-221.98	3,558.84	3,423.91	134.93	26.376	
13,100.00	7,500.00	19,524.00	9,887.95	53.58	83.76	-159.04	-5,244.43	-221.98	3,594.64	3,459.49	135.15	26.598	
13,150.00	7,500.00	19,524.00	9,887.95	53.62	83.76	-155.83	-5,244.43	-221.98	3,630.03	3,494.67	135.36	26.817	
13,200.00	7,500.00	19,524.00	9,887.95	53.63	83.76	-152.78	-5,244.43	-221.98	3,664.89	3,529.32	135.57	27.034	
13,250.00	7,500.00	19,524.00	9,887.95	53.63	83.76	-149.92	-5,244.43	-221.98	3,699.09	3,563.33	135.76	27.247	
13,300.00	7,500.00	19,524.00	9,887.95	53.62	83.76	-147.25	-5,244.43	-221.98	3,732.55	3,596.60	135.95	27.455	
13,350.00	7,500.00	19,524.00	9,887.95	53.58	83.76	-144.78	-5,244.43	-221.98	3,765.15	3,629.03	136.13	27.659	
13,400.00	7,500.00	19,524.00	9,887.95	53.54	83.76	-142.49	-5,244.43	-221.98	3,796.80	3,660.51	136.29	27.858	
13,450.00	7,500.00	19,524.00	9,887.95	53.48	83.76	-140.38	-5,244.43	-221.98	3,827.42	3,690.97	136.45	28.051	
13,500.00	7,500.00	19,524.00	9,887.95	53.40	83.76	-138.46	-5,244.43	-221.98	3,856.90	3,720.31	136.59	28.237	
13,550.00	7,500.00	19,521.03	9,887.96	53.32	83.74	-136.67	-5,241.46	-222.03	3,885.17	3,748.48	136.70	28.422	
13,600.00	7,500.00	19,485.00	9,888.09	53.22	83.49	-134.79	-5,205.43	-222.61	3,911.96	3,775.45	136.51	28.657	
13,650.00	7,500.00	19,466.56	9,888.15	53.12	83.36	-133.25	-5,186.99	-222.98	3,937.11	3,800.64	136.47	28.850	
13,700.00	7,500.00	19,420.18	9,888.29	53.00	83.04	-131.71	-5,140.63	-224.19	3,960.62	3,824.43	136.19	29.082	
13,750.00	7,500.00	19,326.10	9,888.72	52.88	82.38	-130.14	-5,046.57	-225.88	3,982.16	3,846.67	135.49	29.390	
13,800.00	7,500.00	19,222.26	9,889.67	52.75	81.66	-128.81	-4,942.75	-224.88	4,000.47	3,865.78	134.70	29.700	
13,850.00	7,500.00	19,162.49	9,889.99	52.61	81.25	-127.88	-4,882.98	-223.88	4,016.31	3,882.01	134.30	29.905	
13,900.00	7,500.00	19,126.85	9,890.08	52.48	81.00	-127.18	-4,847.34	-223.33	4,029.87	3,895.73	134.13	30.044	
13,950.00	7,500.00	19,093.65	9,890.24	52.33	80.77	-126.61	-4,814.15	-222.91	4,041.27	3,907.28	133.99	30.161	
14,000.00	7,500.00	18,967.00	9,890.93	52.19	79.90	-126.03	-4,687.53	-220.68	4,050.44	3,917.44	133.00	30.455	
14,050.00	7,500.00	18,934.33	9,890.99	52.05	79.68	-125.75	-4,654.87	-219.71	4,056.30	3,923.43	132.88	30.527	
14,100.00	7,500.00	18,902.25	9,891.06	51.90	79.46	-125.58	-4,622.80	-218.93	4,059.94	3,927.17	132.77	30.579	
14,105.32	7,500.00	18,898.84	9,891.07	51.89	79.43	-125.56	-4,619.39	-218.86	4,060.19	3,927.43	132.76	30.584	
14,200.00	7,500.00	18,800.09	9,891.43	51.63	78.75	-125.50	-4,520.67	-216.84	4,063.36	3,931.15	132.22	30.733	
14,300.00	7,500.00	18,663.03	9,892.44	51.35	77.82	-125.52	-4,383.68	-212.36	4,063.12	3,931.76	131.37	30.930	
14,333.98	7,500.00	18,607.99	9,892.95	51.26	77.44	-125.56	-4,328.69	-210.07	4,062.19	3,931.19	131.00	31.008	
14,400.00	7,500.00	18,550.81	9,893.21	51.09	77.05	-125.58	-4,271.56	-207.69	4,059.91	3,929.15	130.76	31.048	
14,500.00	7,500.00	18,498.00	9,893.08	50.84	76.69	-125.60	-4,218.78	-206.05	4,057.04	3,926.34	130.70	31.041	
14,600.00	7,500.00	18,426.50	9,892.60	50.59	76.20	-125.61	-4,147.29	-204.87	4,055.05	3,924.58	130.47	31.081	
14,700.00	7,500.00	18,351.92	9,892.08	50.35	75.70	-125.60	-4,072.71	-204.69	4,054.06	3,923.84	130.21	31.134	
14,800.00	7,500.00	18,277.52	9,891.77	50.12	75.19	-125.60	-3,998.31	-204.74	4,053.53	3,923.56	129.96	31.190	
14,815.05	7,500.00	18,268.11	9,891.73	50.09	75.12	-125.60	-3,988.91	-204.80	4,053.52	3,923.58	129.94	31.195	
14,900.00	7,500.00	18,216.00	9,891.45	49.90	74.77	-125.59	-3,936.80	-205.47	4,053.85	3,924.03	129.82	31.228	
15,000.00	7,500.00	18,156.25	9,891.21	49.69	74.36	-125.58	-3,877.07	-206.85	4,055.14	3,925.46	129.68	31.270	
15,100.00	7,500.00	18,059.87	9,891.12	49.48	73.71	-125.56	-3,780.74	-209.86	4,057.26	3,928.00	129.26	31.388	
15,200.00	7,500.00	17,961.67	9,890.79	49.28	73.04	-125.54	-3,682.57	-212.69	4,059.05	3,930.21	128.84	31.505	
15,300.00	7,500.00	17,868.11	9,890.26	49.09	72.41	-125.51	-3,589.06	-215.84	4,061.10	3,932.64	128.46	31.614	
15,400.00	7,500.00	17,755.40	9,890.00	48.91	71.65	-125.48	-3,476.41	-219.26	4,063.08	3,935.14	127.94	31.757	
15,500.00	7,500.00	17,464.00	9,888.11	48.74	69.70	-125.49	-3,185.24	-216.65	4,059.90	3,933.85	126.05	32.209	
15,600.00	7,500.00	17,370.00	9,890.04	48.57	69.08	-125.55	-3,091.40	-212.33	4,056.99	3,931.25	125.74	32.264	
15,700.00	7,500.00	17,370.00	9,890.04	48.42	69.08	-125.55	-3,091.40	-212.33	4,055.45	3,929.28	126.17	32.144	
15,712.58	7,500.00	17,370.00	9,890.04	48.40	69.08	-125.55	-3,091.40	-212.33	4,055.43	3,929.21	126.22	32.131	
15,800.00	7,500.00	17,338.48	9,890.66	48.27	68.87	-125.56	-3,059.89	-212.54	4,056.24	3,929.93	126.31	32.113	
15,900.00	7,500.00	17,219.62	9,891.94	48.13	68.09	-125.57	-2,941.04	-214.12	4,057.62	3,931.80	125.82	32.250	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,000.00	7,500.00	17,059.86	9,893.37	48.01	67.03	-125.59	-2,781.30	-213.56	4,057.32	3,932.27	125.04	32.447	
16,055.19	7,500.00	17,027.35	9,893.54	47.94	66.82	-125.60	-2,748.79	-213.47	4,057.16	3,932.13	125.03	32.450	
16,100.00	7,500.00	16,992.00	9,893.68	47.89	66.59	-125.60	-2,713.44	-213.66	4,057.28	3,932.33	124.95	32.472	
16,200.00	7,500.00	16,922.55	9,894.16	47.78	66.13	-125.60	-2,643.99	-214.30	4,058.02	3,933.18	124.84	32.505	
16,300.00	7,500.00	16,804.00	9,895.21	47.68	65.36	-125.61	-2,525.45	-215.11	4,058.72	3,934.32	124.40	32.627	
16,400.00	7,500.00	16,686.55	9,896.00	47.59	64.60	-125.62	-2,408.01	-215.79	4,059.26	3,935.29	123.97	32.743	
16,500.00	7,500.00	16,572.44	9,896.81	47.51	63.86	-125.63	-2,293.91	-215.50	4,059.09	3,935.51	123.58	32.845	
16,527.22	7,500.00	16,555.30	9,896.88	47.49	63.75	-125.63	-2,276.77	-215.50	4,059.06	3,935.48	123.58	32.846	
16,600.00	7,500.00	16,501.94	9,897.09	47.44	63.40	-125.64	-2,223.41	-215.80	4,059.28	3,935.78	123.50	32.868	
16,700.00	7,500.00	16,405.60	9,897.52	47.39	62.79	-125.64	-2,127.07	-216.49	4,059.77	3,936.52	123.25	32.939	
16,800.00	7,500.00	16,320.49	9,897.90	47.34	62.24	-125.64	-2,041.97	-217.39	4,060.52	3,937.44	123.08	32.990	
16,900.00	7,500.00	16,221.34	9,898.05	47.31	61.61	-125.63	-1,942.83	-219.03	4,061.60	3,938.78	122.82	33.069	
17,000.00	7,500.00	16,100.80	9,898.19	47.29	60.85	-125.63	-1,822.30	-220.01	4,061.90	3,939.46	122.44	33.175	
17,100.00	7,500.00	16,004.13	9,898.47	47.28	60.24	-125.63	-1,725.63	-221.11	4,062.62	3,940.40	122.22	33.241	
17,200.00	7,500.00	15,918.08	9,898.76	47.28	59.70	-125.63	-1,639.59	-221.70	4,063.07	3,940.99	122.08	33.283	
17,300.00	7,500.00	15,851.87	9,899.02	47.30	59.29	-125.62	-1,573.39	-223.00	4,064.47	3,942.41	122.06	33.300	
17,400.00	7,500.00	15,714.36	9,899.83	47.33	58.43	-125.62	-1,435.89	-224.78	4,065.42	3,943.81	121.61	33.430	
17,500.00	7,500.00	15,605.13	9,900.14	47.37	57.76	-125.62	-1,326.67	-226.00	4,066.14	3,944.80	121.35	33.508	
17,600.00	7,500.00	15,491.00	9,900.42	47.43	57.06	-125.62	-1,212.54	-226.63	4,066.35	3,945.28	121.07	33.587	
17,700.00	7,500.00	15,397.00	9,900.71	47.50	56.48	-125.62	-1,118.55	-227.19	4,066.66	3,945.74	120.92	33.630	
17,800.00	7,500.00	15,295.62	9,900.77	47.59	55.87	-125.62	-1,017.17	-228.25	4,067.18	3,946.45	120.74	33.687	
17,900.00	7,500.00	15,198.16	9,900.73	47.69	55.29	-125.62	-919.72	-229.15	4,067.55	3,946.96	120.58	33.733	
18,000.00	7,500.00	15,092.57	9,900.53	47.81	54.66	-125.61	-814.13	-230.21	4,067.89	3,947.50	120.39	33.790	
18,100.00	7,500.00	14,980.00	9,900.36	47.94	53.99	-125.61	-701.57	-230.90	4,067.94	3,947.78	120.17	33.852	
18,154.34	7,500.00	14,928.00	9,900.30	48.02	53.68	-125.60	-649.56	-231.12	4,067.90	3,947.79	120.10	33.870	
18,200.00	7,500.00	14,895.84	9,900.25	48.08	53.49	-125.60	-617.40	-231.34	4,067.96	3,947.84	120.12	33.866	
18,300.00	7,500.00	14,829.14	9,900.07	48.25	53.10	-125.60	-550.71	-232.40	4,068.72	3,948.56	120.16	33.860	
18,400.00	7,500.00	14,700.15	9,899.75	48.42	52.35	-125.58	-421.74	-234.53	4,069.57	3,949.70	119.88	33.948	
18,461.64	7,500.00	14,613.39	9,899.40	48.54	51.86	-125.57	-334.99	-235.28	4,069.63	3,949.97	119.67	34.008	
18,462.14	7,500.00	14,612.73	9,899.39	49.47	51.85	-125.57	-334.33	-235.29	4,069.63	3,949.97	119.66	34.009	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	31.31	31.31	0.00	0.05	1.24	4,644.50	100.38	4,645.59				
100.00	100.00	128.54	128.54	0.28	0.20	1.24	4,644.55	100.23	4,645.64	4,645.16	0.48	9,677.014	
200.00	200.00	223.77	223.77	0.63	0.40	1.23	4,644.67	99.91	4,645.75	4,644.72	1.04	4,487.757	
300.00	300.00	314.75	314.75	0.99	0.73	1.22	4,644.95	99.26	4,646.04	4,644.32	1.72	2,701.396	
400.00	400.00	409.62	409.61	1.35	1.07	1.21	4,645.34	98.29	4,646.43	4,644.02	2.42	1,921.934	
500.00	500.00	478.00	477.99	1.71	1.31	1.21	4,645.81	97.95	4,647.16	4,644.14	3.02	1,539.601	
600.00	599.98	569.00	568.98	2.06	1.63	-103.10	4,646.94	97.97	4,648.80	4,645.12	3.69	1,261.067	
700.00	699.84	635.22	635.19	2.40	1.86	-103.08	4,648.13	98.00	4,651.76	4,647.50	4.26	1,090.846	
750.00	749.68	669.61	669.57	2.58	1.99	-103.08	4,648.91	97.93	4,653.78	4,649.22	4.56	1,020.484	
800.00	799.49	703.96	703.91	2.75	2.11	-103.12	4,649.80	97.81	4,656.06	4,651.21	4.86	958.660	
900.00	899.11	811.64	811.54	3.10	2.49	-103.24	4,652.93	97.27	4,660.99	4,655.40	5.59	833.569	
1,000.00	998.73	993.28	993.15	3.46	3.14	-103.42	4,656.02	97.39	4,664.73	4,658.13	6.59	707.702	
1,001.27	1,000.00	995.68	995.55	3.46	3.14	-103.43	4,656.04	97.38	4,664.76	4,658.16	6.60	706.312	
1,100.00	1,098.18	1,172.38	1,172.24	3.81	3.76	-105.62	4,655.65	95.75	4,667.01	4,659.44	7.57	616.411	
1,200.00	1,197.22	1,286.29	1,286.14	4.18	4.15	-106.89	4,654.50	94.57	4,669.92	4,661.59	8.32	561.181	
1,300.00	1,295.71	1,391.87	1,391.70	4.54	4.51	-107.76	4,653.12	93.44	4,673.81	4,664.76	9.05	516.552	
1,400.00	1,393.53	1,478.40	1,478.22	4.91	4.81	-108.37	4,652.02	92.68	4,679.08	4,669.37	9.71	481.642	
1,414.82	1,407.97	1,490.85	1,490.67	4.97	4.86	-108.45	4,651.89	92.58	4,680.00	4,670.19	9.81	476.920	
1,500.00	1,490.88	1,578.35	1,578.16	5.28	5.16	-108.69	4,650.91	91.92	4,685.41	4,674.98	10.43	449.129	
1,600.00	1,588.22	1,640.33	1,640.14	5.66	5.38	-108.86	4,650.35	91.48	4,692.08	4,681.06	11.02	425.664	
1,700.00	1,685.56	1,689.00	1,688.81	6.04	5.55	-109.00	4,650.34	91.09	4,699.74	4,688.18	11.57	406.255	
1,800.00	1,782.90	1,768.69	1,768.49	6.42	5.83	-109.22	4,650.88	90.23	4,708.16	4,695.93	12.23	385.024	
1,900.00	1,880.24	1,871.25	1,871.04	6.80	6.20	-109.50	4,651.88	89.05	4,716.96	4,703.99	12.97	363.644	
2,000.00	1,977.58	2,002.78	2,002.55	7.18	6.65	-109.84	4,652.61	90.09	4,725.41	4,711.60	13.81	342.282	
2,100.00	2,074.91	2,115.96	2,115.68	7.57	7.04	-110.09	4,652.58	93.73	4,733.29	4,718.72	14.57	324.874	
2,200.00	2,172.25	2,225.54	2,225.25	7.95	7.41	-110.36	4,652.38	95.29	4,741.17	4,725.84	15.32	309.406	
2,300.00	2,269.59	2,328.05	2,327.75	8.34	7.76	-110.61	4,651.84	95.96	4,748.82	4,732.77	16.05	295.787	
2,400.00	2,366.93	2,390.75	2,390.45	8.73	7.97	-110.77	4,651.67	96.24	4,756.85	4,740.20	16.65	285.662	
2,500.00	2,464.27	2,442.00	2,441.70	9.11	8.15	-110.91	4,651.98	96.08	4,765.86	4,748.65	17.21	276.943	
2,600.00	2,561.61	2,495.00	2,494.68	9.50	8.34	-111.06	4,653.01	95.10	4,776.12	4,758.35	17.77	268.724	
2,700.00	2,658.95	2,540.97	2,540.61	9.89	8.50	-111.19	4,654.35	93.73	4,787.46	4,769.15	18.31	261.462	
2,800.00	2,756.29	2,628.09	2,627.66	10.28	8.81	-111.44	4,657.04	91.31	4,799.29	4,780.29	19.00	252.603	
2,900.00	2,853.63	2,726.03	2,725.51	10.67	9.16	-111.72	4,660.17	88.71	4,811.34	4,791.61	19.73	243.868	
3,000.00	2,950.97	2,915.50	2,914.77	11.06	9.83	-112.29	4,664.33	81.07	4,822.74	4,801.94	20.80	231.849	
3,100.00	3,048.31	3,019.68	3,018.81	11.45	10.20	-112.61	4,665.27	75.78	4,833.01	4,811.46	21.56	224.209	
3,200.00	3,145.64	3,118.15	3,117.13	11.84	10.55	-112.92	4,666.08	70.44	4,843.37	4,821.08	22.29	217.292	
3,300.00	3,242.98	3,219.50	3,218.32	12.23	10.91	-113.24	4,666.81	64.73	4,853.79	4,830.76	23.03	210.717	
3,400.00	3,340.32	3,324.22	3,322.69	12.62	11.29	-113.59	4,667.24	56.37	4,864.29	4,840.50	23.79	204.448	
3,500.00	3,437.66	3,442.56	3,440.36	13.01	11.71	-114.03	4,666.78	43.79	4,874.41	4,849.81	24.60	198.139	
3,600.00	3,535.00	3,527.35	3,524.64	13.40	12.01	-114.35	4,666.40	34.50	4,884.76	4,859.47	25.29	193.184	
3,700.00	3,632.34	3,613.41	3,610.00	13.79	12.32	-114.68	4,666.04	23.57	4,895.52	4,869.54	25.97	188.472	
3,800.00	3,729.68	3,680.00	3,675.93	14.19	12.56	-114.95	4,665.67	14.18	4,906.61	4,880.02	26.59	184.527	
3,900.00	3,827.02	3,741.82	3,737.02	14.58	12.78	-115.21	4,665.60	4.72	4,918.51	4,891.32	27.19	180.919	
4,000.00	3,924.36	3,799.81	3,794.20	14.97	12.99	-115.46	4,666.08	-4.90	4,931.54	4,903.77	27.77	177.612	
4,100.00	4,021.70	3,915.63	3,908.11	15.36	13.41	-115.97	4,666.99	-25.85	4,945.10	4,916.53	28.57	173.082	
4,200.00	4,119.04	4,078.35	4,067.58	15.75	13.99	-116.72	4,665.68	-58.13	4,957.61	4,928.05	29.56	167.716	
4,300.00	4,216.37	4,183.64	4,170.80	16.15	14.38	-117.20	4,664.11	-78.86	4,969.90	4,939.57	30.33	163.879	
4,400.00	4,313.71	4,300.56	4,285.15	16.54	14.80	-117.74	4,661.68	-103.13	4,982.12	4,950.98	31.14	159.990	
4,500.00	4,411.05	4,370.85	4,353.62	16.93	15.06	-118.08	4,659.80	-118.90	4,994.45	4,962.68	31.77	157.194	
4,600.00	4,508.39	4,435.00	4,416.07	17.32	15.30	-118.39	4,658.73	-133.52	5,007.94	4,975.56	32.38	154.664	
4,700.00	4,605.73	4,472.21	4,452.28	17.72	15.43	-118.57	4,658.40	-142.07	5,022.37	4,989.50	32.88	152.768	
4,800.00	4,703.07	4,530.00	4,508.48	18.11	15.65	-118.86	4,658.04	-155.55	5,037.70	5,004.25	33.45	150.594	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	4,586.63	4,563.52	18.50	15.86	-119.13	4,658.05	-168.87	5,053.95	5,019.93	34.02	148.550	
5,000.00	4,897.75	14,436.09	9,663.45	18.90	51.57	168.85	-258.53	-896.63	5,053.28	5,000.49	52.79	95.728	
5,100.00	4,995.09	14,444.28	9,663.50	19.29	51.61	168.68	-266.72	-896.67	4,970.04	4,916.82	53.22	93.385	
5,200.00	5,092.43	14,452.55	9,663.54	19.68	51.66	168.51	-274.99	-896.71	4,887.42	4,833.75	53.67	91.068	
5,300.00	5,189.77	14,463.41	9,663.60	20.07	51.72	168.29	-285.85	-896.75	4,805.44	4,751.29	54.15	88.751	
5,400.00	5,287.10	14,474.22	9,663.64	20.47	51.78	168.07	-296.66	-896.80	4,724.14	4,669.50	54.64	86.465	
5,500.00	5,384.44	14,484.81	9,663.68	20.86	51.84	167.85	-307.25	-896.84	4,643.55	4,588.41	55.14	84.212	
5,600.00	5,481.78	14,495.19	9,663.71	21.25	51.90	167.64	-317.63	-896.89	4,563.71	4,508.05	55.66	81.992	
5,700.00	5,579.12	14,505.38	9,663.73	21.65	51.96	167.43	-327.82	-896.94	4,484.66	4,428.47	56.20	79.805	
5,800.00	5,676.46	14,515.37	9,663.74	22.04	52.01	167.23	-337.81	-896.98	4,406.45	4,349.70	56.75	77.653	
5,900.00	5,773.80	14,525.18	9,663.75	22.43	52.07	167.03	-347.62	-897.03	4,329.12	4,271.80	57.31	75.536	
6,000.00	5,871.14	14,534.80	9,663.75	22.83	52.12	166.83	-357.24	-897.08	4,252.71	4,194.82	57.90	73.453	
6,100.00	5,968.48	14,544.24	9,663.74	23.22	52.18	166.63	-366.68	-897.12	4,177.29	4,118.79	58.50	71.407	
6,200.00	6,065.82	14,553.51	9,663.73	23.61	52.23	166.44	-375.95	-897.17	4,102.90	4,043.78	59.12	69.397	
6,300.00	6,163.16	14,557.83	9,663.73	24.01	52.25	166.35	-380.26	-897.19	4,029.61	3,969.87	59.74	67.457	
6,400.00	6,260.50	14,564.56	9,663.73	24.40	52.29	166.21	-387.00	-897.23	3,957.48	3,897.09	60.39	65.536	
6,500.00	6,357.83	14,571.33	9,663.72	24.79	52.33	166.07	-393.77	-897.26	3,886.57	3,825.51	61.06	63.651	
6,600.00	6,455.17	14,578.13	9,663.72	25.19	52.37	165.93	-400.57	-897.29	3,816.94	3,755.19	61.76	61.805	
6,700.00	6,552.51	14,584.97	9,663.72	25.58	52.41	165.79	-407.41	-897.32	3,748.68	3,686.20	62.48	59.998	
6,800.00	6,649.85	14,591.84	9,663.72	25.98	52.45	165.65	-414.28	-897.36	3,681.86	3,618.63	63.23	58.231	
6,900.00	6,747.19	14,598.75	9,663.72	26.37	52.49	165.51	-421.19	-897.39	3,616.56	3,552.55	64.00	56.506	
7,000.00	6,844.53	14,605.70	9,663.73	26.76	52.53	165.37	-428.13	-897.42	3,552.85	3,488.05	64.80	54.825	
7,100.00	6,941.87	14,612.68	9,663.73	27.16	52.57	165.22	-435.11	-897.45	3,490.83	3,425.20	65.63	53.190	
7,115.01	6,956.48	14,613.73	9,663.73	27.22	52.57	165.20	-436.16	-897.45	3,481.67	3,415.92	65.76	52.948	
7,150.00	6,990.45	14,617.19	9,663.74	27.35	52.59	154.62	-439.63	-897.47	3,460.50	3,394.44	66.06	52.384	
7,200.00	7,038.53	14,625.66	9,663.74	27.55	52.64	143.88	-448.10	-897.51	3,430.80	3,364.28	66.52	51.575	
7,250.00	7,085.72	14,639.00	9,663.76	27.75	52.72	137.45	-461.44	-897.56	3,401.93	3,334.92	67.01	50.765	
7,300.00	7,131.67	14,653.68	9,663.78	27.94	52.80	133.86	-476.11	-897.63	3,374.10	3,306.58	67.52	49.973	
7,350.00	7,176.02	14,672.61	9,663.79	28.13	52.91	131.94	-495.05	-897.75	3,347.50	3,279.45	68.05	49.192	
7,400.00	7,218.44	14,694.92	9,663.80	28.32	53.04	131.00	-517.35	-897.93	3,322.28	3,253.69	68.60	48.431	
7,450.00	7,258.60	14,720.40	9,663.79	28.50	53.18	130.64	-542.84	-898.18	3,298.61	3,229.45	69.16	47.695	
7,500.00	7,296.21	14,763.10	9,663.70	28.67	53.43	130.44	-585.54	-898.64	3,276.58	3,206.77	69.81	46.935	
7,550.00	7,330.97	14,820.39	9,663.32	28.84	53.76	130.32	-642.82	-899.06	3,256.08	3,185.55	70.53	46.166	
7,600.00	7,362.62	14,857.36	9,662.95	28.99	53.98	130.60	-679.79	-899.28	3,237.26	3,166.14	71.13	45.513	
7,650.00	7,390.91	14,893.66	9,662.53	29.15	54.19	130.96	-716.08	-899.61	3,220.38	3,148.67	71.71	44.908	
7,700.00	7,415.64	14,937.26	9,661.96	29.30	54.45	131.28	-759.68	-900.12	3,205.51	3,133.19	72.32	44.326	
7,750.00	7,436.62	14,995.11	9,661.24	29.44	54.79	131.52	-817.52	-900.57	3,192.52	3,119.54	72.98	43.746	
7,800.00	7,453.68	15,042.24	9,660.71	29.57	55.07	131.85	-864.64	-900.71	3,181.45	3,107.89	73.56	43.249	
7,825.96	7,460.95	15,064.12	9,660.49	29.64	55.20	132.02	-886.52	-900.78	3,176.55	3,102.71	73.84	43.019	
7,900.00	7,477.79	15,124.65	9,660.01	29.84	55.56	132.25	-947.05	-901.01	3,165.12	3,090.51	74.61	42.422	
8,000.00	7,493.08	15,202.00	9,659.69	30.11	56.02	132.44	-1,024.40	-901.69	3,155.42	3,079.82	75.60	41.739	
8,100.00	7,499.70	15,308.45	9,659.48	30.38	56.65	132.46	-1,130.84	-902.86	3,151.96	3,075.26	76.70	41.093	
8,125.95	7,499.99	15,358.33	9,659.26	30.45	56.96	132.44	-1,180.72	-903.09	3,151.86	3,074.76	77.10	40.878	
8,136.20	7,499.99	15,378.03	9,659.13	30.48	57.07	132.44	-1,200.42	-903.08	3,151.85	3,074.59	77.26	40.795	
8,180.79	7,499.99	15,413.29	9,658.92	30.60	57.29	132.44	-1,235.68	-902.98	3,151.73	3,074.06	77.68	40.575	
8,200.00	7,499.99	15,425.29	9,658.89	30.65	57.36	132.44	-1,247.68	-902.97	3,151.76	3,073.92	77.84	40.491	
8,300.00	7,499.99	15,496.06	9,659.28	30.94	57.79	132.44	-1,318.44	-903.12	3,152.57	3,073.84	78.73	40.041	
8,400.00	7,499.99	15,683.69	9,658.02	31.24	58.94	132.41	-1,506.06	-902.99	3,152.46	3,072.16	80.30	39.258	
8,500.00	7,499.99	15,772.27	9,657.02	31.56	59.49	132.40	-1,594.63	-901.95	3,151.15	3,069.81	81.34	38.742	
8,600.00	7,500.00	15,876.06	9,655.74	31.88	60.13	132.40	-1,698.41	-900.74	3,149.80	3,067.33	82.48	38.191	
8,700.00	7,500.00	15,972.63	9,654.44	32.22	60.74	132.38	-1,794.96	-899.79	3,148.50	3,064.91	83.59	37.666	
8,800.00	7,500.00	16,071.29	9,652.96	32.58	61.36	132.37	-1,893.61	-898.93	3,147.19	3,062.45	84.73	37.143	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,500.00	16,166.43	9,651.94	32.94	61.96	132.36	-1,988.74	-898.09	3,146.15	3,060.28	85.87	36.640	
9,000.00	7,500.00	16,284.67	9,650.03	33.32	62.71	132.34	-2,106.96	-896.99	3,144.70	3,057.54	87.15	36.083	
9,100.00	7,500.00	16,385.46	9,648.44	33.71	63.35	132.33	-2,207.73	-895.65	3,142.99	3,054.64	88.35	35.575	
9,200.00	7,500.00	16,496.31	9,645.68	34.11	64.06	132.30	-2,318.54	-894.99	3,141.22	3,051.59	89.62	35.049	
9,300.00	7,500.00	16,606.60	9,643.17	34.52	64.77	132.27	-2,428.80	-893.47	3,139.00	3,048.10	90.90	34.531	
9,400.00	7,500.00	16,684.50	9,641.92	34.94	65.28	132.27	-2,506.67	-892.13	3,136.99	3,044.99	92.00	34.097	
9,500.00	7,500.00	16,762.71	9,641.34	35.37	65.78	132.27	-2,584.86	-890.93	3,135.69	3,042.58	93.11	33.678	
9,600.00	7,500.00	16,885.20	9,640.32	35.81	66.58	132.27	-2,707.35	-889.53	3,134.68	3,040.19	94.49	33.175	
9,700.00	7,500.00	16,959.20	9,639.31	36.26	67.06	132.26	-2,781.34	-888.78	3,133.37	3,037.78	95.59	32.779	
9,800.00	7,500.00	17,064.33	9,638.22	36.73	67.75	132.25	-2,886.45	-888.25	3,132.64	3,035.75	96.89	32.331	
9,900.00	7,500.00	17,204.81	9,633.99	37.20	68.67	132.19	-3,026.86	-887.63	3,130.49	3,032.06	98.43	31.804	
10,000.00	7,500.00	17,268.00	9,632.79	37.68	69.09	132.18	-3,090.04	-886.95	3,128.76	3,029.27	99.49	31.447	
10,100.00	7,500.00	17,342.80	9,632.48	38.17	69.58	132.18	-3,164.83	-886.14	3,128.02	3,027.40	100.63	31.085	
10,200.00	7,500.00	17,453.89	9,631.93	38.66	70.32	132.18	-3,275.92	-885.23	3,127.41	3,025.41	102.00	30.661	
10,300.00	7,500.00	17,549.00	9,631.58	39.17	70.95	132.18	-3,371.02	-884.34	3,126.81	3,023.54	103.28	30.276	
10,316.19	7,500.00	17,549.00	9,631.58	39.25	70.95	132.18	-3,371.02	-884.34	3,126.77	3,023.39	103.38	30.244	
10,400.00	7,500.00	17,631.08	9,631.83	39.68	71.50	132.18	-3,453.10	-883.79	3,126.81	3,022.34	104.47	29.929	
10,500.00	7,500.00	17,774.38	9,630.89	40.20	72.46	132.17	-3,596.39	-882.73	3,126.15	3,020.08	106.08	29.470	
10,600.00	7,500.00	17,893.52	9,629.47	40.73	73.26	132.17	-3,715.50	-880.79	3,124.48	3,016.95	107.53	29.056	
10,700.00	7,500.00	17,984.33	9,628.51	41.26	73.87	132.18	-3,806.29	-878.90	3,122.58	3,013.77	108.81	28.697	
10,800.00	7,500.00	18,089.67	9,627.34	41.80	74.58	132.18	-3,911.61	-877.24	3,121.01	3,010.82	110.19	28.324	
10,900.00	7,500.00	18,202.50	9,625.99	42.35	75.34	132.18	-4,024.41	-874.81	3,118.95	3,007.33	111.62	27.942	
11,000.00	7,500.00	18,301.00	9,624.71	42.91	76.01	132.19	-4,122.87	-872.54	3,116.70	3,003.74	112.97	27.589	
11,100.00	7,500.00	18,395.00	9,623.54	43.47	76.65	132.19	-4,216.84	-870.41	3,114.53	3,000.24	114.29	27.251	
11,200.00	7,500.00	18,489.00	9,622.39	44.03	77.29	132.19	-4,310.82	-868.54	3,112.58	2,996.96	115.62	26.921	
11,300.00	7,500.00	18,555.81	9,621.94	44.61	77.75	132.20	-4,377.62	-867.49	3,111.31	2,994.54	116.77	26.644	
11,400.00	7,500.00	18,660.16	9,622.39	45.18	78.46	132.22	-4,481.95	-865.90	3,110.82	2,992.65	118.18	26.323	
11,500.00	7,500.00	18,831.93	9,620.46	45.77	79.64	132.24	-4,653.65	-861.47	3,108.28	2,988.27	120.02	25.898	
11,581.32	7,500.00	18,905.55	9,618.92	46.24	80.15	132.24	-4,727.22	-859.44	3,105.76	2,984.66	121.10	25.646	
11,600.00	7,500.00	18,921.08	9,618.69	46.35	80.26	132.22	-4,742.74	-858.97	3,105.37	2,984.04	121.34	25.593	
11,612.15	7,500.00	18,931.18	9,618.56	46.43	80.33	132.21	-4,752.83	-858.66	3,105.30	2,983.81	121.50	25.559	CC, ES
11,650.00	7,500.00	18,966.00	9,618.25	46.65	80.57	132.22	-4,787.64	-857.54	3,105.99	2,983.98	122.01	25.457	
11,700.00	7,500.00	19,026.72	9,617.50	46.96	80.99	132.28	-4,848.32	-855.66	3,108.81	2,986.03	122.78	25.319	
11,750.00	7,500.00	19,061.00	9,616.74	47.27	81.22	132.44	-4,882.58	-854.73	3,113.74	2,990.34	123.40	25.232	
11,800.00	7,500.00	19,095.60	9,616.02	47.59	81.46	132.70	-4,917.17	-853.97	3,121.14	2,997.11	124.03	25.164	
11,850.00	7,500.00	19,118.52	9,615.73	47.91	81.62	133.10	-4,940.08	-853.61	3,131.19	3,006.61	124.58	25.134	
11,900.00	7,500.00	19,155.00	9,615.58	48.23	81.87	133.55	-4,976.56	-853.26	3,143.87	3,018.65	125.22	25.106	
11,950.00	7,500.00	19,174.95	9,615.53	48.56	82.01	134.19	-4,996.51	-853.19	3,158.91	3,033.16	125.75	25.121	
12,000.00	7,500.00	19,229.23	9,614.76	48.88	82.39	134.73	-5,050.78	-853.41	3,176.09	3,049.58	126.52	25.104	SF
12,050.00	7,500.00	19,281.10	9,613.32	49.20	82.75	135.36	-5,102.63	-854.02	3,195.24	3,067.97	127.27	25.106	
12,100.00	7,500.00	19,331.18	9,611.96	49.52	83.09	136.09	-5,152.69	-854.39	3,216.33	3,088.32	128.01	25.125	
12,150.00	7,500.00	19,369.30	9,611.05	49.83	83.36	137.05	-5,190.80	-854.49	3,239.37	3,110.70	128.66	25.177	
12,200.00	7,500.00	19,404.33	9,610.44	50.14	83.60	138.17	-5,225.82	-854.44	3,264.39	3,135.11	129.29	25.249	
12,250.00	7,500.00	19,430.00	9,610.03	50.44	83.78	139.56	-5,251.49	-854.39	3,291.32	3,161.49	129.83	25.350	
12,300.00	7,500.00	19,430.00	9,610.03	50.74	83.78	141.47	-5,251.49	-854.39	3,320.30	3,190.12	130.18	25.506	
12,350.00	7,500.00	19,430.00	9,610.03	51.02	83.78	143.65	-5,251.49	-854.39	3,351.27	3,220.77	130.50	25.680	
12,400.00	7,500.00	19,430.00	9,610.03	51.30	83.78	146.12	-5,251.49	-854.39	3,384.07	3,253.26	130.81	25.871	
12,450.00	7,500.00	19,430.00	9,610.03	51.56	83.78	148.91	-5,251.49	-854.39	3,418.52	3,287.43	131.09	26.077	
12,500.00	7,500.00	19,430.00	9,610.03	51.81	83.78	152.03	-5,251.49	-854.39	3,454.45	3,323.09	131.36	26.297	
12,550.00	7,500.00	19,430.00	9,610.03	52.05	83.78	155.51	-5,251.49	-854.39	3,491.69	3,360.07	131.62	26.529	
12,600.00	7,500.00	19,430.00	9,610.03	52.27	83.78	159.35	-5,251.49	-854.39	3,530.05	3,398.20	131.85	26.772	
12,650.00	7,500.00	19,430.00	9,610.03	52.48	83.78	163.54	-5,251.49	-854.39	3,569.37	3,437.29	132.08	27.024	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,700.00	7,500.00	19,430.00	9,610.03	52.67	83.78	168.07	-5,251.49	-854.39	3,609.47	3,477.17	132.29	27.284	
12,750.00	7,500.00	19,430.00	9,610.03	52.84	83.78	172.87	-5,251.49	-854.39	3,650.17	3,517.68	132.49	27.550	
12,800.00	7,500.00	19,430.00	9,610.03	53.00	83.78	177.89	-5,251.49	-854.39	3,691.32	3,558.64	132.68	27.821	
12,850.00	7,500.00	19,430.00	9,610.03	53.14	83.78	-176.97	-5,251.49	-854.39	3,732.74	3,599.89	132.86	28.096	
12,900.00	7,500.00	19,430.00	9,610.03	53.27	83.78	-171.81	-5,251.49	-854.39	3,774.29	3,641.27	133.02	28.373	
12,950.00	7,500.00	19,430.00	9,610.03	53.37	83.78	-166.73	-5,251.49	-854.39	3,815.80	3,682.62	133.18	28.652	
13,000.00	7,500.00	19,430.00	9,610.03	53.46	83.78	-161.82	-5,251.49	-854.39	3,857.12	3,723.80	133.33	28.930	
13,050.00	7,500.00	19,430.00	9,610.03	53.53	83.78	-157.16	-5,251.49	-854.39	3,898.12	3,764.66	133.46	29.207	
13,100.00	7,500.00	19,430.00	9,610.03	53.58	83.78	-152.80	-5,251.49	-854.39	3,938.66	3,805.06	133.59	29.483	
13,150.00	7,500.00	19,430.00	9,610.03	53.62	83.78	-148.78	-5,251.49	-854.39	3,978.59	3,844.88	133.71	29.755	
13,200.00	7,500.00	19,430.00	9,610.03	53.63	83.78	-145.10	-5,251.49	-854.39	4,017.80	3,883.98	133.82	30.024	
13,250.00	7,500.00	19,430.00	9,610.03	53.63	83.78	-141.76	-5,251.49	-854.39	4,056.16	3,922.24	133.92	30.287	
13,300.00	7,500.00	19,430.00	9,610.03	53.62	83.78	-138.75	-5,251.49	-854.39	4,093.56	3,959.55	134.01	30.546	
13,350.00	7,500.00	19,430.00	9,610.03	53.58	83.78	-136.04	-5,251.49	-854.39	4,129.89	3,995.80	134.10	30.798	
13,400.00	7,500.00	19,430.00	9,610.03	53.54	83.78	-133.62	-5,251.49	-854.39	4,165.05	4,030.88	134.17	31.043	
13,450.00	7,500.00	19,430.00	9,610.03	53.48	83.78	-131.45	-5,251.49	-854.39	4,198.93	4,064.69	134.23	31.281	
13,500.00	7,500.00	19,430.00	9,610.03	53.40	83.78	-129.52	-5,251.49	-854.39	4,231.44	4,097.15	134.29	31.510	
13,550.00	7,500.00	19,403.42	9,610.46	53.32	83.60	-127.62	-5,224.91	-854.45	4,262.42	4,128.31	134.12	31.782	
13,600.00	7,500.00	19,364.83	9,611.14	53.22	83.33	-125.89	-5,186.33	-854.49	4,291.55	4,157.71	133.84	32.065	
13,650.00	7,500.00	19,315.67	9,612.38	53.12	82.99	-124.34	-5,137.19	-854.31	4,318.67	4,185.20	133.48	32.356	
13,700.00	7,500.00	19,253.78	9,614.11	53.00	82.56	-122.97	-5,075.32	-853.70	4,343.53	4,210.53	133.00	32.657	
13,750.00	7,500.00	19,212.91	9,615.09	52.88	82.27	-121.88	-5,034.46	-853.28	4,366.09	4,233.38	132.71	32.899	
13,800.00	7,500.00	19,172.94	9,615.54	52.75	82.00	-120.94	-4,994.49	-853.19	4,386.39	4,253.96	132.43	33.123	
13,850.00	7,500.00	19,155.00	9,615.58	52.61	81.87	-120.20	-4,976.56	-853.26	4,404.43	4,272.10	132.33	33.283	
13,900.00	7,500.00	19,125.18	9,615.67	52.48	81.67	-119.55	-4,946.74	-853.52	4,420.22	4,288.08	132.14	33.452	
13,950.00	7,500.00	19,105.57	9,615.87	52.33	81.53	-119.03	-4,927.13	-853.80	4,433.83	4,301.80	132.02	33.584	
14,000.00	7,500.00	19,061.00	9,616.74	52.19	81.22	-118.59	-4,882.58	-854.73	4,445.35	4,313.64	131.72	33.750	
14,050.00	7,500.00	19,061.00	9,616.74	52.05	81.22	-118.29	-4,882.58	-854.73	4,454.26	4,322.50	131.76	33.806	
14,100.00	7,500.00	19,017.77	9,617.66	51.90	80.92	-118.04	-4,839.38	-855.91	4,460.90	4,329.43	131.47	33.931	
14,105.32	7,500.00	19,011.83	9,617.76	51.89	80.88	-118.02	-4,833.44	-856.09	4,461.44	4,330.01	131.43	33.946	
14,200.00	7,500.00	18,917.00	9,618.74	51.63	80.23	-117.91	-4,738.66	-859.10	4,469.48	4,338.68	130.80	34.171	
14,300.00	7,500.00	18,821.61	9,620.70	51.35	79.57	-117.85	-4,643.33	-861.75	4,475.09	4,344.91	130.18	34.376	
14,333.98	7,500.00	18,754.64	9,621.92	51.26	79.11	-117.84	-4,576.39	-863.51	4,476.25	4,346.54	129.71	34.508	
14,400.00	7,500.00	18,616.91	9,622.14	51.09	78.17	-117.82	-4,438.71	-866.70	4,477.55	4,348.81	128.75	34.778	
14,500.00	7,500.00	18,535.59	9,622.00	50.84	77.61	-117.82	-4,357.40	-867.77	4,478.29	4,350.01	128.27	34.912	
14,600.00	7,500.00	18,467.43	9,622.65	50.59	77.14	-117.82	-4,289.25	-868.93	4,479.82	4,351.91	127.91	35.023	
14,700.00	7,500.00	18,381.21	9,623.70	50.35	76.56	-117.82	-4,203.06	-870.71	4,481.82	4,354.40	127.42	35.174	
14,800.00	7,500.00	18,286.75	9,624.89	50.12	75.91	-117.83	-4,108.63	-872.87	4,484.04	4,357.16	126.88	35.342	
14,900.00	7,500.00	18,182.86	9,626.24	49.90	75.21	-117.83	-4,004.77	-875.26	4,486.29	4,360.01	126.28	35.528	
15,000.00	7,500.00	18,054.93	9,627.73	49.69	74.34	-117.84	-3,876.88	-877.85	4,488.25	4,362.73	125.52	35.759	
15,100.00	7,500.00	17,965.21	9,628.72	49.48	73.74	-117.84	-3,787.18	-879.24	4,489.77	4,364.72	125.04	35.905	
15,200.00	7,500.00	17,866.40	9,629.78	49.28	73.07	-117.84	-3,688.40	-881.33	4,491.74	4,367.22	124.52	36.073	
15,300.00	7,500.00	17,717.11	9,631.56	49.09	72.07	-117.86	-3,539.13	-883.26	4,493.07	4,369.42	123.65	36.338	
15,400.00	7,500.00	17,587.80	9,631.72	48.91	71.21	-117.86	-3,409.82	-884.06	4,493.23	4,370.30	122.93	36.551	
15,500.00	7,500.00	17,508.91	9,631.54	48.74	70.68	-117.85	-3,330.93	-884.69	4,493.46	4,370.87	122.59	36.655	
15,600.00	7,500.00	17,417.00	9,632.27	48.57	70.07	-117.86	-3,239.03	-885.59	4,494.30	4,372.13	122.16	36.789	
15,700.00	7,500.00	17,314.65	9,632.55	48.42	69.40	-117.86	-3,136.69	-886.39	4,494.71	4,373.03	121.68	36.940	
15,800.00	7,500.00	17,246.20	9,633.03	48.27	68.95	-117.86	-3,068.24	-887.23	4,495.73	4,374.30	121.43	37.023	
15,900.00	7,500.00	17,173.94	9,635.13	48.13	68.47	-117.88	-2,996.02	-887.80	4,497.40	4,376.23	121.17	37.116	
16,000.00	7,500.00	17,006.16	9,638.93	48.01	67.37	-117.93	-2,828.29	-888.51	4,498.32	4,378.03	120.29	37.395	
16,100.00	7,500.00	16,931.40	9,639.62	47.89	66.88	-117.93	-2,753.54	-889.01	4,498.98	4,378.95	120.04	37.479	
16,200.00	7,500.00	16,827.96	9,641.01	47.78	66.20	-117.94	-2,650.12	-890.20	4,500.25	4,380.64	119.61	37.626	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,300.00	7,500.00	16,738.40	9,641.48	47.68	65.62	-117.95	-2,560.56	-891.26	4,501.16	4,381.89	119.27	37.739	
16,400.00	7,500.00	16,664.07	9,642.17	47.59	65.14	-117.95	-2,486.25	-892.47	4,502.65	4,383.61	119.04	37.825	
16,500.00	7,500.00	16,574.49	9,643.87	47.51	64.56	-117.96	-2,396.70	-893.99	4,504.63	4,385.90	118.73	37.941	
16,600.00	7,500.00	16,439.97	9,647.10	47.44	63.70	-117.99	-2,262.22	-895.39	4,506.30	4,388.15	118.15	38.140	
16,700.00	7,500.00	16,352.90	9,649.05	47.39	63.14	-118.01	-2,175.17	-895.99	4,507.59	4,389.71	117.88	38.239	
16,800.00	7,500.00	16,241.72	9,650.76	47.34	62.43	-118.03	-2,064.02	-897.46	4,509.10	4,391.63	117.47	38.385	
16,900.00	7,500.00	16,122.83	9,652.36	47.31	61.68	-118.04	-1,945.15	-898.48	4,510.08	4,393.06	117.03	38.539	
17,000.00	7,500.00	16,034.69	9,653.50	47.29	61.13	-118.05	-1,857.02	-899.25	4,511.08	4,394.30	116.78	38.629	
17,100.00	7,500.00	15,933.47	9,654.99	47.28	60.49	-118.07	-1,755.81	-900.13	4,512.14	4,395.68	116.46	38.743	
17,200.00	7,500.00	15,841.45	9,656.17	47.28	59.92	-118.08	-1,663.80	-901.16	4,513.35	4,397.13	116.21	38.837	
17,300.00	7,500.00	15,737.45	9,657.43	47.30	59.27	-118.09	-1,559.82	-902.32	4,514.51	4,398.60	115.90	38.951	
17,400.00	7,500.00	15,555.92	9,659.31	47.33	58.16	-118.10	-1,378.31	-903.44	4,515.45	4,400.28	115.17	39.208	
17,500.00	7,500.00	15,451.97	9,658.94	47.37	57.52	-118.11	-1,274.36	-902.98	4,514.49	4,399.61	114.88	39.297	
17,600.00	7,500.00	15,364.21	9,659.17	47.43	56.99	-118.11	-1,186.60	-902.97	4,514.17	4,399.47	114.70	39.355	
17,700.00	7,500.00	15,224.30	9,659.65	47.50	56.15	-118.13	-1,046.69	-901.96	4,513.32	4,399.07	114.25	39.505	
17,800.00	7,500.00	15,148.16	9,659.88	47.59	55.70	-118.14	-970.57	-901.16	4,512.17	4,398.01	114.16	39.525	
17,900.00	7,500.00	15,072.88	9,660.41	47.69	55.25	-118.15	-895.28	-900.81	4,511.69	4,397.61	114.08	39.547	
18,000.00	7,500.00	14,960.30	9,661.67	47.81	54.58	-118.17	-782.71	-900.35	4,511.49	4,397.67	113.82	39.637	
18,100.00	7,500.00	14,860.11	9,662.92	47.94	54.00	-118.19	-682.54	-899.30	4,510.77	4,397.13	113.63	39.695	
18,200.00	7,500.00	14,732.00	9,663.78	48.08	53.25	-118.21	-554.43	-898.31	4,510.04	4,396.72	113.31	39.801	
18,300.00	7,500.00	14,639.00	9,663.76	48.25	52.72	-118.21	-461.44	-897.56	4,508.93	4,395.75	113.19	39.837	
18,400.00	7,500.00	14,549.58	9,663.74	48.42	52.21	-118.22	-372.02	-897.15	4,508.12	4,395.03	113.08	39.865	
18,461.64	7,500.00	14,480.76	9,663.67	48.54	51.82	-118.22	-303.20	-896.83	4,507.59	4,394.63	112.96	39.906	
18,462.14	7,500.00	14,480.20	9,663.66	49.47	51.82	-118.22	-302.64	-896.82	4,507.59	4,394.63	112.95	39.907	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	29.14	29.14	0.00	0.05	0.99	4,644.12	80.40	4,644.82				
100.00	100.00	119.08	119.08	0.28	0.19	0.99	4,644.28	80.38	4,645.00	4,644.53	0.47	9,986.255	
200.00	200.00	209.04	209.04	0.63	0.35	0.99	4,644.64	80.34	4,645.39	4,644.41	0.98	4,728.302	
300.00	300.00	300.00	300.00	0.99	0.67	0.99	4,645.19	80.16	4,646.00	4,644.33	1.67	2,787.404	
400.00	400.00	389.00	388.99	1.35	0.99	0.98	4,645.97	79.75	4,646.86	4,644.52	2.34	1,982.481	
500.00	500.00	460.86	460.84	1.71	1.25	0.98	4,646.90	79.21	4,648.13	4,645.17	2.96	1,570.348	
600.00	599.98	630.60	630.58	2.06	1.85	-103.36	4,648.23	78.92	4,649.31	4,645.40	3.91	1,190.415	
700.00	699.84	760.16	760.13	2.40	2.29	-103.42	4,648.11	79.51	4,650.49	4,645.81	4.69	991.981	
750.00	749.68	855.45	855.41	2.58	2.61	-103.51	4,646.97	78.63	4,650.74	4,645.56	5.18	897.200	
800.00	799.49	895.81	895.76	2.75	2.75	-103.56	4,646.38	78.00	4,651.03	4,645.53	5.50	846.065	
900.00	899.11	991.88	991.81	3.10	3.08	-103.68	4,645.20	76.22	4,651.82	4,645.64	6.18	752.473	
1,000.00	998.73	1,086.34	1,086.23	3.46	3.41	-103.81	4,644.00	74.01	4,652.60	4,645.74	6.87	677.598	
1,001.27	1,000.00	1,087.45	1,087.34	3.46	3.41	-103.81	4,643.99	73.99	4,652.62	4,645.74	6.87	676.772	
1,100.00	1,098.18	1,172.72	1,172.59	3.81	3.71	-105.90	4,643.11	72.58	4,654.26	4,646.73	7.53	618.422	
1,200.00	1,197.22	1,271.94	1,271.80	4.18	4.06	-107.15	4,642.29	71.42	4,657.41	4,649.18	8.23	565.575	
1,300.00	1,295.71	1,377.56	1,377.41	4.54	4.44	-108.01	4,641.23	70.11	4,661.70	4,652.73	8.97	519.675	
1,400.00	1,393.53	1,463.84	1,463.68	4.91	4.74	-108.62	4,640.38	69.33	4,667.35	4,657.71	9.64	484.137	
1,414.82	1,407.97	1,475.77	1,475.61	4.97	4.78	-108.69	4,640.29	69.29	4,668.33	4,658.60	9.74	479.423	
1,500.00	1,490.88	1,548.69	1,548.53	5.28	5.03	-108.88	4,639.83	69.45	4,674.22	4,663.92	10.31	453.559	
1,600.00	1,588.22	1,650.43	1,650.26	5.66	5.38	-109.14	4,639.31	70.34	4,681.34	4,670.31	11.03	424.456	
1,700.00	1,685.56	1,799.28	1,799.09	6.04	5.90	-109.52	4,637.71	72.28	4,688.03	4,676.11	11.92	393.314	
1,800.00	1,782.90	1,950.33	1,950.09	6.42	6.43	-109.90	4,634.14	73.71	4,693.47	4,680.64	12.82	365.988	
1,900.00	1,880.24	2,033.49	2,033.21	6.80	6.72	-110.10	4,631.83	75.09	4,698.64	4,685.14	13.49	348.188	
2,000.00	1,977.58	2,065.00	2,064.70	7.18	6.83	-110.18	4,631.08	75.81	4,704.62	4,690.64	13.98	336.414	
2,100.00	2,074.91	2,125.68	2,125.37	7.57	7.04	-110.33	4,630.27	76.66	4,711.59	4,697.01	14.58	323.265	
2,200.00	2,172.25	2,171.36	2,171.05	7.95	7.20	-110.45	4,630.41	76.49	4,720.00	4,704.88	15.11	312.347	
2,300.00	2,269.59	2,279.08	2,278.76	8.34	7.57	-110.73	4,631.13	76.14	4,728.95	4,713.08	15.87	298.049	
2,400.00	2,366.93	2,449.05	2,448.72	8.73	8.17	-111.15	4,630.78	78.04	4,737.09	4,720.24	16.84	281.235	
2,500.00	2,464.27	2,528.84	2,528.51	9.11	8.45	-111.36	4,630.08	77.97	4,744.70	4,727.19	17.51	271.031	
2,600.00	2,561.61	2,606.74	2,606.40	9.50	8.72	-111.57	4,629.69	77.15	4,752.83	4,734.67	18.16	261.700	
2,700.00	2,658.95	2,698.28	2,697.89	9.89	9.04	-111.84	4,629.38	74.40	4,761.34	4,742.47	18.87	252.388	
2,800.00	2,756.29	2,788.16	2,787.61	10.28	9.36	-112.13	4,628.94	68.87	4,770.03	4,750.46	19.56	243.830	
2,900.00	2,853.63	2,865.18	2,864.33	10.67	9.63	-112.41	4,628.60	62.16	4,779.12	4,758.90	20.21	236.425	
3,000.00	2,950.97	2,926.00	2,924.78	11.06	9.84	-112.64	4,628.53	55.52	4,788.88	4,768.08	20.81	230.175	
3,100.00	3,048.31	3,006.17	3,004.26	11.45	10.12	-112.97	4,628.67	45.00	4,799.31	4,777.84	21.47	223.569	
3,200.00	3,145.64	3,081.94	3,079.10	11.84	10.39	-113.29	4,628.99	33.22	4,810.38	4,788.27	22.11	217.551	
3,300.00	3,242.98	3,159.01	3,154.91	12.23	10.66	-113.64	4,629.38	19.38	4,822.03	4,799.27	22.76	211.858	
3,400.00	3,340.32	3,239.08	3,233.31	12.62	10.94	-114.03	4,629.81	3.09	4,834.26	4,810.84	23.42	206.408	
3,500.00	3,437.66	3,330.50	3,322.51	13.01	11.26	-114.48	4,630.26	-16.93	4,846.94	4,822.81	24.12	200.910	
3,600.00	3,535.00	3,447.61	3,436.59	13.40	11.68	-115.07	4,630.37	-43.40	4,859.72	4,834.79	24.93	194.939	
3,700.00	3,632.34	3,602.33	3,587.77	13.79	12.24	-115.82	4,629.35	-76.27	4,872.03	4,846.15	25.88	188.242	
3,800.00	3,729.68	3,670.60	3,654.41	14.19	12.48	-116.16	4,628.62	-91.06	4,884.30	4,857.80	26.50	184.285	
3,900.00	3,827.02	3,771.05	3,752.12	14.58	12.85	-116.66	4,627.33	-114.32	4,896.97	4,869.72	27.25	179.694	
4,000.00	3,924.36	3,870.00	3,848.04	14.97	13.21	-117.17	4,625.34	-138.55	4,909.54	4,881.54	28.00	175.369	
4,100.00	4,021.70	3,933.71	3,909.71	15.36	13.45	-117.50	4,624.11	-154.48	4,922.73	4,894.12	28.60	172.119	
4,200.00	4,119.04	3,964.00	3,939.06	15.75	13.56	-117.66	4,623.78	-161.97	4,937.12	4,908.05	29.07	169.843	
4,300.00	4,216.37	4,033.25	4,006.22	16.15	13.81	-118.01	4,623.63	-178.82	4,952.47	4,922.77	29.69	166.794	
4,400.00	4,313.71	4,099.13	4,070.23	16.54	14.06	-118.34	4,624.16	-194.45	4,968.87	4,938.57	30.30	163.986	
4,500.00	4,411.05	4,189.71	4,158.35	16.93	14.39	-118.78	4,625.18	-215.33	4,985.81	4,954.79	31.01	160.773	
4,600.00	4,508.39	4,294.91	4,260.90	17.32	14.78	-119.28	4,626.28	-238.83	5,002.86	4,971.07	31.78	157.397	
4,700.00	4,605.73	4,391.43	4,354.88	17.72	15.14	-119.74	4,626.98	-260.78	5,020.03	4,987.51	32.52	154.354	
4,800.00	4,703.07	4,493.00	4,453.69	18.11	15.52	-120.22	4,627.48	-284.31	5,037.43	5,004.14	33.28	151.349	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	4,565.01	4,523.68	18.50	15.79	-120.57	4,627.67	-301.24	5,055.05	5,021.13	33.92	149.036	
5,000.00	4,897.75	4,625.00	4,582.05	18.90	16.01	-120.85	4,628.36	-315.05	5,073.61	5,039.11	34.50	147.063	
5,100.00	4,995.09	4,699.33	4,654.46	19.29	16.29	-121.20	4,629.65	-331.79	5,092.89	5,057.75	35.14	144.924	
5,200.00	5,092.43	4,843.47	4,795.14	19.68	16.83	-121.85	4,631.81	-363.10	5,112.12	5,076.03	36.09	141.648	
5,300.00	5,189.77	4,969.25	4,918.30	20.07	17.30	-122.39	4,632.94	-388.59	5,130.74	5,093.78	36.96	138.826	
5,400.00	5,287.10	5,055.81	5,003.20	20.47	17.63	-122.76	4,633.59	-405.48	5,149.31	5,111.65	37.65	136.751	
5,500.00	5,384.44	14,845.31	9,860.50	20.86	53.84	165.69	-367.68	-1,558.64	5,118.13	5,061.83	56.30	90.916	
5,600.00	5,481.78	14,844.49	9,860.50	21.25	53.84	165.71	-366.86	-1,558.66	5,044.79	4,988.03	56.75	88.888	
5,700.00	5,579.12	14,851.14	9,860.48	21.65	53.87	165.60	-373.51	-1,558.62	4,972.36	4,915.09	57.27	86.818	
5,800.00	5,676.46	14,857.80	9,860.47	22.04	53.91	165.49	-380.16	-1,558.57	4,900.90	4,843.09	57.81	84.777	
5,900.00	5,773.80	14,864.47	9,860.45	22.43	53.95	165.38	-386.83	-1,558.52	4,830.43	4,772.07	58.36	82.767	
6,000.00	5,871.14	14,871.14	9,860.43	22.83	53.98	165.27	-393.51	-1,558.48	4,761.02	4,702.09	58.93	80.788	
6,100.00	5,968.48	14,877.82	9,860.41	23.22	54.02	165.16	-400.19	-1,558.44	4,692.70	4,633.18	59.52	78.840	
6,200.00	6,065.82	14,884.52	9,860.40	23.61	54.06	165.05	-406.88	-1,558.39	4,625.52	4,565.39	60.13	76.926	
6,300.00	6,163.16	14,891.22	9,860.38	24.01	54.10	164.93	-413.58	-1,558.35	4,559.53	4,498.78	60.76	75.045	
6,400.00	6,260.50	14,897.93	9,860.37	24.40	54.13	164.82	-420.29	-1,558.31	4,494.79	4,433.39	61.41	73.199	
6,500.00	6,357.83	14,904.65	9,860.35	24.79	54.17	164.71	-427.01	-1,558.27	4,431.35	4,369.28	62.07	71.388	
6,600.00	6,455.17	14,911.38	9,860.34	25.19	54.21	164.60	-433.74	-1,558.22	4,369.27	4,306.50	62.76	69.614	
6,700.00	6,552.51	14,918.11	9,860.32	25.58	54.24	164.49	-440.48	-1,558.18	4,308.60	4,245.12	63.48	67.879	
6,800.00	6,649.85	14,926.00	9,860.31	25.98	54.29	164.36	-448.36	-1,558.14	4,249.41	4,185.19	64.21	66.176	
6,900.00	6,747.19	14,946.59	9,860.28	26.37	54.40	164.02	-468.95	-1,557.96	4,191.74	4,126.70	65.04	64.450	
7,000.00	6,844.53	14,973.02	9,860.26	26.76	54.55	163.58	-495.38	-1,557.54	4,135.64	4,069.73	65.91	62.747	
7,100.00	6,941.87	15,001.43	9,860.28	27.16	54.70	163.11	-523.78	-1,556.87	4,081.17	4,014.36	66.81	61.087	
7,115.01	6,956.48	15,005.88	9,860.29	27.22	54.73	163.04	-528.23	-1,556.74	4,073.14	4,006.20	66.95	60.842	
7,150.00	6,990.45	15,020.39	9,860.31	27.35	54.81	151.82	-542.73	-1,556.29	4,054.55	3,987.26	67.29	60.256	
7,200.00	7,038.53	14,994.46	9,860.31	27.55	54.67	141.06	-516.81	-1,556.81	4,028.29	3,960.73	67.57	59.618	
7,250.00	7,085.72	15,007.76	9,860.31	27.75	54.74	134.13	-530.11	-1,556.56	4,002.84	3,934.80	68.04	58.830	
7,300.00	7,131.67	15,041.60	9,860.32	27.94	54.93	129.82	-563.94	-1,555.69	3,978.10	3,909.48	68.61	57.978	
7,350.00	7,176.02	15,053.43	9,860.31	28.13	54.99	127.67	-575.76	-1,555.43	3,954.38	3,885.29	69.09	57.237	
7,400.00	7,218.44	15,067.26	9,860.27	28.32	55.07	126.58	-589.59	-1,555.18	3,931.83	3,862.25	69.57	56.513	
7,450.00	7,258.60	15,082.98	9,860.21	28.50	55.16	126.13	-605.31	-1,555.00	3,910.59	3,840.53	70.07	55.812	
7,500.00	7,296.21	15,113.00	9,860.01	28.67	55.33	125.94	-635.33	-1,554.90	3,890.86	3,820.24	70.62	55.093	
7,550.00	7,330.97	15,123.72	9,859.92	28.84	55.39	126.19	-646.05	-1,554.93	3,872.64	3,801.56	71.09	54.478	
7,600.00	7,362.62	15,157.52	9,859.67	28.99	55.58	126.36	-679.84	-1,555.02	3,856.07	3,784.43	71.65	53.821	
7,650.00	7,390.91	15,193.75	9,859.47	29.15	55.78	126.61	-716.07	-1,555.12	3,841.16	3,768.96	72.20	53.198	
7,700.00	7,415.64	15,227.71	9,859.33	29.30	55.98	126.91	-750.03	-1,555.25	3,827.99	3,755.26	72.74	52.626	
7,750.00	7,436.62	15,260.84	9,859.24	29.44	56.16	127.23	-783.17	-1,555.46	3,816.68	3,743.42	73.25	52.102	
7,800.00	7,453.68	15,301.00	9,859.20	29.57	56.39	127.50	-823.32	-1,555.84	3,807.28	3,733.50	73.78	51.603	
7,825.96	7,460.95	15,301.00	9,859.20	29.64	56.39	127.71	-823.32	-1,555.84	3,803.19	3,729.24	73.95	51.430	
7,900.00	7,477.79	15,345.60	9,859.28	29.84	56.65	127.94	-867.91	-1,556.60	3,794.09	3,719.47	74.62	50.844	
8,000.00	7,493.08	15,556.52	9,859.53	30.11	57.87	127.86	-1,078.79	-1,559.48	3,786.75	3,710.55	76.20	49.694	
8,100.00	7,499.70	15,640.75	9,859.50	30.38	58.36	127.97	-1,163.01	-1,558.55	3,782.17	3,705.01	77.16	49.019	
8,124.75	7,499.99	15,657.93	9,859.58	30.44	58.46	127.98	-1,180.19	-1,558.40	3,781.98	3,704.61	77.37	48.882	
8,125.95	7,499.99	15,658.77	9,859.58	30.45	58.47	127.98	-1,181.03	-1,558.39	3,781.98	3,704.60	77.38	48.875	
8,200.00	7,499.99	15,712.33	9,859.94	30.65	58.78	127.98	-1,234.59	-1,558.11	3,782.24	3,704.21	78.03	48.473	
8,300.00	7,499.99	15,884.33	9,860.15	30.94	59.80	127.98	-1,406.59	-1,557.35	3,782.62	3,703.23	79.39	47.645	
8,400.00	7,499.99	15,973.89	9,859.34	31.24	60.33	127.98	-1,496.13	-1,556.24	3,781.46	3,701.07	80.39	47.039	
8,500.00	7,499.99	16,167.65	9,856.83	31.56	61.50	127.98	-1,689.83	-1,552.64	3,779.88	3,697.98	81.90	46.150	
8,600.00	7,500.00	16,239.00	9,856.10	31.88	61.93	127.98	-1,761.14	-1,550.49	3,777.11	3,694.26	82.85	45.588	
8,700.00	7,500.00	16,283.29	9,856.14	32.22	62.20	127.99	-1,805.42	-1,549.40	3,775.32	3,691.64	83.68	45.117	
8,800.00	7,500.00	16,333.00	9,855.99	32.58	62.51	128.00	-1,855.12	-1,548.68	3,774.54	3,690.00	84.54	44.649	
8,839.16	7,500.00	16,374.89	9,855.72	32.72	62.76	127.99	-1,897.01	-1,548.53	3,774.40	3,689.41	84.99	44.407	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,500.00	16,427.00	9,855.19	32.94	63.08	127.98	-1,949.11	-1,548.98	3,774.63	3,688.99	85.64	44.076	
9,000.00	7,500.00	16,709.00	9,844.53	33.32	64.84	127.84	-2,230.73	-1,549.32	3,773.32	3,685.58	87.74	43.004	
9,100.00	7,500.00	16,755.95	9,843.11	33.71	65.14	127.83	-2,277.63	-1,547.62	3,769.22	3,680.57	88.65	42.519	
9,200.00	7,500.00	16,803.00	9,842.00	34.11	65.43	127.82	-2,324.66	-1,547.07	3,766.97	3,677.41	89.55	42.063	
9,300.00	7,500.00	16,848.74	9,841.16	34.52	65.72	127.81	-2,370.39	-1,547.19	3,766.13	3,675.67	90.46	41.634	
9,344.13	7,500.00	16,880.34	9,840.66	34.70	65.92	127.80	-2,401.99	-1,547.37	3,766.06	3,675.14	90.92	41.422	
9,400.00	7,500.00	16,930.24	9,839.98	34.94	66.23	127.79	-2,451.88	-1,547.75	3,766.13	3,674.57	91.56	41.133	
9,500.00	7,500.00	17,012.41	9,839.08	35.37	66.75	127.77	-2,534.04	-1,548.29	3,766.37	3,673.70	92.67	40.642	
9,600.00	7,500.00	17,085.00	9,839.94	35.81	67.21	127.77	-2,606.62	-1,548.62	3,767.70	3,673.97	93.73	40.196	
9,700.00	7,500.00	17,300.29	9,841.08	36.26	68.58	127.80	-2,821.87	-1,546.05	3,767.34	3,671.75	95.59	39.411	
9,800.00	7,500.00	17,461.00	9,837.37	36.73	69.62	127.77	-2,982.51	-1,544.25	3,765.75	3,668.58	97.16	38.757	
9,900.00	7,500.00	17,497.05	9,837.14	37.20	69.85	127.77	-3,018.54	-1,543.06	3,763.22	3,665.14	98.07	38.371	
10,000.00	7,500.00	17,555.00	9,837.78	37.68	70.22	127.78	-3,076.48	-1,542.33	3,762.80	3,663.70	99.10	37.970	
10,018.65	7,500.00	17,555.00	9,837.78	37.77	70.22	127.78	-3,076.48	-1,542.33	3,762.76	3,663.53	99.23	37.920	
10,100.00	7,500.00	17,614.79	9,838.44	38.17	70.61	127.79	-3,136.26	-1,541.98	3,763.16	3,663.03	100.13	37.581	
10,200.00	7,500.00	17,743.00	9,840.82	38.66	71.44	127.84	-3,264.41	-1,539.52	3,763.08	3,661.52	101.56	37.051	
10,205.70	7,500.00	17,743.00	9,840.82	38.69	71.44	127.84	-3,264.41	-1,539.52	3,763.07	3,661.47	101.60	37.037	
10,300.00	7,500.00	17,802.98	9,842.48	39.17	71.84	127.87	-3,324.35	-1,538.32	3,763.52	3,660.91	102.61	36.678	
10,400.00	7,500.00	17,911.89	9,842.41	39.68	72.55	127.85	-3,433.25	-1,539.31	3,764.57	3,660.62	103.96	36.213	
10,500.00	7,500.00	17,992.24	9,842.52	40.20	73.07	127.85	-3,513.60	-1,539.63	3,765.37	3,660.23	105.14	35.813	
10,600.00	7,500.00	18,066.61	9,843.26	40.73	73.56	127.85	-3,587.97	-1,540.17	3,766.91	3,660.62	106.29	35.441	
10,700.00	7,500.00	18,157.06	9,843.88	41.26	74.16	127.84	-3,678.41	-1,541.68	3,769.00	3,661.46	107.54	35.047	
10,800.00	7,500.00	18,266.64	9,844.52	41.80	74.88	127.82	-3,787.97	-1,543.39	3,770.94	3,662.02	108.92	34.620	
10,900.00	7,500.00	18,366.77	9,845.00	42.35	75.55	127.81	-3,888.09	-1,544.88	3,772.77	3,662.52	110.25	34.220	
11,000.00	7,500.00	18,486.20	9,845.70	42.91	76.34	127.80	-4,007.51	-1,546.32	3,774.47	3,662.76	111.71	33.789	
11,100.00	7,500.00	18,740.25	9,847.24	43.47	78.04	127.85	-4,261.46	-1,541.52	3,773.62	3,659.67	113.95	33.116	
11,200.00	7,500.00	18,870.00	9,845.21	44.03	78.91	127.87	-4,391.09	-1,536.89	3,770.12	3,654.66	115.46	32.652	
11,300.00	7,500.00	18,953.29	9,846.06	44.61	79.47	127.91	-4,474.27	-1,532.69	3,767.07	3,650.36	116.72	32.275	
11,400.00	7,500.00	19,056.95	9,847.02	45.18	80.17	127.97	-4,577.79	-1,527.33	3,763.93	3,645.84	118.09	31.874	
11,500.00	7,500.00	19,105.40	9,847.55	45.77	80.49	128.00	-4,626.18	-1,525.15	3,761.41	3,642.26	119.16	31.567	
11,581.32	7,500.00	19,152.00	9,848.14	46.24	80.81	128.01	-4,672.76	-1,523.80	3,760.41	3,640.35	120.06	31.321	
11,588.65	7,500.00	19,152.00	9,848.14	46.29	80.81	128.01	-4,672.76	-1,523.80	3,760.38	3,640.26	120.12	31.306	CC
11,600.00	7,500.00	19,154.70	9,848.17	46.35	80.83	128.02	-4,675.46	-1,523.75	3,760.45	3,640.23	120.22	31.280	ES
11,650.00	7,500.00	19,203.14	9,848.75	46.65	81.16	128.09	-4,723.89	-1,522.79	3,762.32	3,641.42	120.90	31.119	
11,700.00	7,500.00	19,246.00	9,849.17	46.96	81.45	128.23	-4,766.74	-1,522.05	3,766.58	3,645.03	121.55	30.987	
11,750.00	7,500.00	19,283.61	9,849.50	47.27	81.70	128.48	-4,804.34	-1,521.54	3,773.35	3,651.17	122.18	30.884	
11,800.00	7,500.00	19,316.94	9,849.79	47.59	81.93	128.82	-4,837.67	-1,521.27	3,782.67	3,659.89	122.78	30.809	
11,850.00	7,500.00	19,340.00	9,849.99	47.91	82.09	129.29	-4,860.73	-1,521.18	3,794.52	3,671.21	123.31	30.771	
11,900.00	7,500.00	19,380.04	9,850.33	48.23	82.36	129.82	-4,900.76	-1,521.26	3,808.83	3,684.87	123.96	30.726	
11,950.00	7,500.00	19,409.88	9,850.56	48.56	82.56	130.49	-4,930.60	-1,521.50	3,825.59	3,701.05	124.54	30.718	SF
12,000.00	7,500.00	19,434.00	9,850.74	48.88	82.73	131.32	-4,954.72	-1,521.82	3,844.74	3,719.66	125.07	30.740	
12,050.00	7,500.00	19,471.47	9,851.05	49.20	82.98	132.20	-4,992.18	-1,522.44	3,866.15	3,740.45	125.70	30.758	
12,100.00	7,500.00	19,502.16	9,851.35	49.52	83.19	133.26	-5,022.86	-1,523.03	3,889.75	3,763.48	126.27	30.805	
12,150.00	7,500.00	19,529.00	9,851.65	49.83	83.37	134.51	-5,049.70	-1,523.59	3,915.45	3,788.64	126.81	30.877	
12,200.00	7,500.00	19,556.89	9,851.93	50.14	83.56	135.92	-5,077.58	-1,524.28	3,943.17	3,815.82	127.35	30.963	
12,250.00	7,500.00	19,580.83	9,852.12	50.44	83.73	137.56	-5,101.51	-1,525.01	3,972.82	3,844.96	127.85	31.073	
12,300.00	7,500.00	19,602.94	9,852.24	50.74	83.88	139.43	-5,123.60	-1,525.78	4,004.28	3,875.95	128.33	31.202	
12,350.00	7,500.00	19,622.00	9,852.30	51.02	84.01	141.59	-5,142.65	-1,526.53	4,037.46	3,908.68	128.78	31.351	
12,400.00	7,500.00	19,622.00	9,852.30	51.30	84.01	144.28	-5,142.65	-1,526.53	4,072.28	3,943.21	129.07	31.551	
12,450.00	7,500.00	19,648.70	9,852.39	51.56	84.19	146.91	-5,169.33	-1,527.71	4,108.48	3,978.93	129.55	31.713	
12,500.00	7,500.00	19,659.38	9,852.44	51.81	84.26	150.12	-5,179.99	-1,528.24	4,146.06	4,016.16	129.90	31.918	
12,550.00	7,500.00	19,668.53	9,852.49	52.05	84.33	153.72	-5,189.13	-1,528.70	4,184.82	4,054.60	130.22	32.137	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.00	7,500.00	19,676.14	9,852.53	52.27	84.38	157.73	-5,196.73	-1,529.11	4,224.60	4,094.09	130.51	32.369	
12,650.00	7,500.00	19,682.21	9,852.56	52.48	84.42	162.16	-5,202.79	-1,529.44	4,265.25	4,134.47	130.78	32.614	
12,700.00	7,500.00	19,686.74	9,852.59	52.67	84.45	166.99	-5,207.31	-1,529.70	4,306.61	4,175.59	131.02	32.870	
12,750.00	7,500.00	19,709.00	9,852.75	52.84	84.60	171.70	-5,229.53	-1,531.02	4,348.60	4,217.21	131.40	33.095	
12,800.00	7,500.00	19,709.00	9,852.75	53.00	84.60	177.18	-5,229.53	-1,531.02	4,390.88	4,259.31	131.57	33.372	
12,850.00	7,500.00	19,709.00	9,852.75	53.14	84.60	-177.20	-5,229.53	-1,531.02	4,433.41	4,301.67	131.74	33.653	
12,900.00	7,500.00	19,709.00	9,852.75	53.27	84.60	-171.58	-5,229.53	-1,531.02	4,476.00	4,344.11	131.89	33.938	
12,950.00	7,500.00	19,709.00	9,852.75	53.37	84.60	-166.07	-5,229.53	-1,531.02	4,518.52	4,386.50	132.03	34.224	
13,000.00	7,500.00	19,682.53	9,852.57	53.46	84.42	-160.23	-5,203.11	-1,529.46	4,560.65	4,428.72	131.93	34.569	
13,050.00	7,500.00	19,676.86	9,852.53	53.53	84.38	-155.20	-5,197.45	-1,529.15	4,602.49	4,470.49	132.00	34.868	
13,100.00	7,500.00	19,669.87	9,852.49	53.58	84.34	-150.54	-5,190.46	-1,528.77	4,643.76	4,511.72	132.04	35.168	
13,150.00	7,500.00	19,661.60	9,852.45	53.62	84.28	-146.29	-5,182.20	-1,528.35	4,684.34	4,552.27	132.07	35.469	
13,200.00	7,500.00	19,652.10	9,852.41	53.63	84.21	-142.46	-5,172.72	-1,527.88	4,724.06	4,591.99	132.07	35.768	
13,250.00	7,500.00	19,622.00	9,852.30	53.63	84.01	-138.78	-5,142.65	-1,526.53	4,762.89	4,630.99	131.90	36.110	
13,300.00	7,500.00	19,622.00	9,852.30	53.62	84.01	-135.87	-5,142.65	-1,526.53	4,800.43	4,668.46	131.97	36.375	
13,350.00	7,500.00	19,622.00	9,852.30	53.58	84.01	-133.29	-5,142.65	-1,526.53	4,836.79	4,704.76	132.03	36.633	
13,400.00	7,500.00	19,596.80	9,852.21	53.54	83.84	-130.79	-5,117.47	-1,525.56	4,871.75	4,739.87	131.88	36.941	
13,450.00	7,500.00	19,577.27	9,852.10	53.48	83.70	-128.64	-5,097.95	-1,524.89	4,905.20	4,773.43	131.77	37.226	
13,500.00	7,500.00	19,556.58	9,851.93	53.40	83.56	-126.74	-5,077.27	-1,524.28	4,937.01	4,805.37	131.64	37.503	
13,550.00	7,500.00	19,529.00	9,851.65	53.32	83.37	-125.05	-5,049.70	-1,523.59	4,967.08	4,835.62	131.46	37.784	
13,600.00	7,500.00	19,508.76	9,851.42	53.22	83.24	-123.61	-5,029.47	-1,523.16	4,995.27	4,863.94	131.33	38.035	
13,650.00	7,500.00	19,480.42	9,851.13	53.12	83.04	-122.32	-5,001.13	-1,522.60	5,021.49	4,890.35	131.14	38.291	
13,700.00	7,500.00	19,450.94	9,850.87	53.00	82.84	-121.19	-4,971.66	-1,522.09	5,045.63	4,914.69	130.94	38.535	
13,750.00	7,500.00	19,434.00	9,850.74	52.88	82.73	-120.27	-4,954.72	-1,521.82	5,067.63	4,936.80	130.83	38.734	
13,800.00	7,500.00	19,398.35	9,850.47	52.75	82.48	-119.42	-4,919.08	-1,521.39	5,087.40	4,956.82	130.58	38.960	
13,850.00	7,500.00	19,372.87	9,850.27	52.61	82.31	-118.72	-4,893.59	-1,521.22	5,104.94	4,974.53	130.41	39.145	
13,900.00	7,500.00	19,340.00	9,849.99	52.48	82.09	-118.13	-4,860.73	-1,521.18	5,120.17	4,989.99	130.18	39.330	
13,950.00	7,500.00	19,319.22	9,849.81	52.33	81.94	-117.66	-4,839.95	-1,521.26	5,133.03	5,002.98	130.05	39.470	
14,000.00	7,500.00	19,290.78	9,849.56	52.19	81.75	-117.28	-4,811.51	-1,521.47	5,143.48	5,013.62	129.86	39.608	
14,050.00	7,500.00	19,246.00	9,849.17	52.05	81.45	-116.98	-4,766.74	-1,522.05	5,151.52	5,021.97	129.55	39.764	
14,100.00	7,500.00	19,226.00	9,848.98	51.90	81.31	-116.80	-4,746.74	-1,522.38	5,156.98	5,027.55	129.43	39.844	
14,105.32	7,500.00	19,221.23	9,848.94	51.89	81.28	-116.78	-4,741.97	-1,522.47	5,157.41	5,028.02	129.40	39.857	
14,200.00	7,500.00	19,152.00	9,848.14	51.63	80.81	-116.69	-4,672.76	-1,523.80	5,163.57	5,034.62	128.95	40.045	
14,300.00	7,500.00	19,107.73	9,847.58	51.35	80.51	-116.63	-4,628.51	-1,525.06	5,167.87	5,039.19	128.68	40.161	
14,333.98	7,500.00	19,094.93	9,847.43	51.26	80.42	-116.62	-4,615.72	-1,525.55	5,168.90	5,040.30	128.60	40.193	
14,400.00	7,500.00	19,058.00	9,847.03	51.09	80.17	-116.61	-4,578.83	-1,527.28	5,170.99	5,042.62	128.37	40.281	
14,500.00	7,500.00	18,984.77	9,846.33	50.84	79.68	-116.58	-4,505.70	-1,531.09	5,174.74	5,046.83	127.91	40.456	
14,600.00	7,500.00	18,874.52	9,845.26	50.59	78.94	-116.55	-4,395.60	-1,536.66	5,178.43	5,051.22	127.21	40.706	
14,700.00	7,500.00	18,736.41	9,847.28	50.35	78.01	-116.54	-4,257.63	-1,541.64	5,182.02	5,055.67	126.35	41.013	
14,800.00	7,500.00	18,383.41	9,845.05	50.12	75.66	-116.51	-3,904.72	-1,545.15	5,181.73	5,057.72	124.01	41.785	
14,900.00	7,500.00	18,289.01	9,844.65	49.90	75.03	-116.52	-3,810.34	-1,543.71	5,179.77	5,056.29	123.48	41.948	
15,000.00	7,500.00	18,177.44	9,844.00	49.69	74.29	-116.52	-3,698.79	-1,542.03	5,177.78	5,054.93	122.84	42.149	
15,100.00	7,500.00	18,083.55	9,843.41	49.48	73.67	-116.53	-3,604.91	-1,540.39	5,175.55	5,053.20	122.35	42.303	
15,200.00	7,500.00	18,025.00	9,842.83	49.28	73.29	-116.53	-3,546.36	-1,539.81	5,173.86	5,051.75	122.10	42.374	
15,300.00	7,500.00	17,949.72	9,842.36	49.09	72.79	-116.52	-3,471.09	-1,539.45	5,172.78	5,051.04	121.75	42.488	
15,400.00	7,500.00	17,837.00	9,842.64	48.91	72.06	-116.53	-3,358.37	-1,538.53	5,171.75	5,050.60	121.15	42.688	
15,500.00	7,500.00	17,782.55	9,842.11	48.74	71.70	-116.53	-3,303.92	-1,538.51	5,171.03	5,050.08	120.95	42.753	
15,510.13	7,500.00	17,778.34	9,842.01	48.72	71.68	-116.53	-3,299.72	-1,538.57	5,171.02	5,050.08	120.94	42.757	
15,600.00	7,500.00	17,737.44	9,840.59	48.57	71.41	-116.51	-3,258.86	-1,539.72	5,171.48	5,050.67	120.81	42.808	
15,700.00	7,500.00	17,555.00	9,837.78	48.42	70.22	-116.47	-3,076.48	-1,542.33	5,171.72	5,051.93	119.79	43.174	
15,765.85	7,500.00	17,555.00	9,837.78	48.32	70.22	-116.47	-3,076.48	-1,542.33	5,171.72	5,051.82	119.90	43.134	
15,800.00	7,500.00	17,519.45	9,837.24	48.27	69.99	-116.47	-3,040.94	-1,542.60	5,171.57	5,051.84	119.73	43.194	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,900.00	7,500.00	17,461.00	9,837.37	48.13	69.62	-116.46	-2,982.51	-1,544.25	5,173.29	5,053.76	119.52	43.283	
16,000.00	7,500.00	17,337.11	9,840.49	48.01	68.82	-116.49	-2,858.68	-1,545.64	5,175.15	5,056.21	118.94	43.511	
16,100.00	7,500.00	17,253.31	9,841.16	47.89	68.28	-116.49	-2,774.91	-1,547.11	5,176.61	5,058.01	118.60	43.647	
16,200.00	7,500.00	17,032.35	9,839.11	47.78	66.88	-116.47	-2,553.98	-1,548.39	5,175.86	5,058.42	117.44	44.071	
16,300.00	7,500.00	16,965.03	9,839.54	47.68	66.45	-116.48	-2,486.66	-1,548.00	5,175.19	5,057.95	117.24	44.142	
16,400.00	7,500.00	16,873.57	9,840.76	47.59	65.87	-116.49	-2,395.21	-1,547.32	5,174.73	5,057.83	116.90	44.264	
16,442.40	7,500.00	16,845.83	9,841.21	47.56	65.70	-116.50	-2,367.48	-1,547.18	5,174.67	5,057.84	116.83	44.292	
16,500.00	7,500.00	16,803.00	9,842.00	47.51	65.43	-116.51	-2,324.66	-1,547.07	5,174.79	5,058.09	116.70	44.343	
16,600.00	7,500.00	16,803.00	9,842.00	47.44	65.43	-116.51	-2,324.66	-1,547.07	5,176.04	5,059.15	116.89	44.281	
16,700.00	7,500.00	16,751.91	9,843.22	47.39	65.11	-116.52	-2,273.58	-1,547.72	5,178.27	5,061.48	116.79	44.339	
16,800.00	7,500.00	16,427.00	9,855.19	47.34	63.08	-116.64	-1,949.11	-1,548.98	5,181.24	5,066.00	115.23	44.963	
16,900.00	7,500.00	16,376.38	9,855.70	47.31	62.77	-116.65	-1,898.49	-1,548.53	5,180.52	5,065.34	115.18	44.976	
16,922.29	7,500.00	16,365.45	9,855.79	47.30	62.70	-116.65	-1,887.57	-1,548.52	5,180.50	5,065.32	115.18	44.979	
17,000.00	7,500.00	16,333.00	9,855.99	47.29	62.51	-116.65	-1,855.12	-1,548.68	5,180.80	5,065.63	115.17	44.983	
17,100.00	7,500.00	16,271.01	9,856.14	47.28	62.13	-116.65	-1,793.14	-1,549.66	5,181.97	5,066.92	115.06	45.038	
17,200.00	7,500.00	16,239.00	9,856.10	47.28	61.93	-116.64	-1,761.14	-1,550.49	5,184.11	5,069.01	115.10	45.041	
17,300.00	7,500.00	16,104.85	9,858.07	47.30	61.12	-116.65	-1,627.06	-1,554.22	5,186.91	5,072.28	114.63	45.249	
17,400.00	7,500.00	15,942.07	9,859.67	47.33	60.14	-116.65	-1,464.31	-1,556.57	5,188.04	5,074.01	114.03	45.495	
17,500.00	7,500.00	15,742.64	9,860.12	47.37	58.96	-116.66	-1,264.90	-1,558.12	5,188.76	5,075.50	113.26	45.812	
17,600.00	7,500.00	15,676.00	9,859.69	47.43	58.57	-116.65	-1,198.26	-1,558.27	5,188.25	5,075.07	113.18	45.840	
17,631.33	7,500.00	15,659.42	9,859.58	47.45	58.47	-116.65	-1,181.69	-1,558.39	5,188.23	5,075.05	113.18	45.840	
17,700.00	7,500.00	15,615.10	9,859.44	47.50	58.21	-116.65	-1,137.36	-1,558.80	5,188.43	5,075.30	113.13	45.861	
17,800.00	7,500.00	15,347.80	9,859.29	47.59	56.66	-116.66	-870.12	-1,556.65	5,187.20	5,075.12	112.08	46.281	
17,900.00	7,500.00	15,301.00	9,859.20	47.69	56.39	-116.67	-823.32	-1,555.84	5,185.09	5,072.94	112.14	46.236	
18,000.00	7,500.00	15,244.03	9,859.28	47.81	56.07	-116.67	-766.36	-1,555.34	5,183.91	5,071.75	112.16	46.219	
18,100.00	7,500.00	15,167.92	9,859.61	47.94	55.64	-116.68	-690.24	-1,555.05	5,183.35	5,071.27	112.09	46.244	
18,174.57	7,500.00	15,113.00	9,860.01	48.05	55.33	-116.68	-635.33	-1,554.90	5,183.14	5,071.10	112.04	46.260	
18,200.00	7,500.00	15,113.00	9,860.01	48.08	55.33	-116.68	-635.33	-1,554.90	5,183.21	5,071.09	112.11	46.231	
18,300.00	7,500.00	15,057.70	9,860.30	48.25	55.02	-116.69	-580.03	-1,555.34	5,183.93	5,071.79	112.14	46.227	
18,400.00	7,500.00	14,900.81	9,860.36	48.42	54.15	-116.68	-423.17	-1,558.29	5,185.51	5,073.78	111.73	46.411	
18,461.64	7,500.00	14,807.26	9,860.59	48.54	53.63	-116.68	-329.62	-1,558.74	5,185.66	5,074.16	111.50	46.507	
18,462.14	7,500.00	14,806.75	9,860.59	49.47	53.63	-116.68	-329.12	-1,558.74	5,185.66	5,074.16	111.50	46.508	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	162.86	-332.67	102.57	348.12				
100.00	100.00	95.97	95.96	0.28	0.16	163.05	-333.40	101.63	348.55	348.12	0.43	812.516	
200.00	200.00	193.86	193.79	0.63	0.42	163.56	-335.48	98.97	349.82	348.77	1.05	334.372	
300.00	300.00	294.04	293.86	0.99	0.78	164.27	-338.07	95.21	351.26	349.49	1.77	198.610	
400.00	400.00	393.40	393.09	1.35	1.14	165.06	-340.85	90.94	352.82	350.33	2.49	141.712	
500.00	500.00	492.71	492.28	1.71	1.50	165.84	-343.80	86.72	354.63	351.42	3.21	110.458	
600.00	599.98	591.75	591.19	2.06	1.87	62.48	-346.82	82.77	355.84	351.92	3.92	90.790	
700.00	699.84	691.38	690.68	2.40	2.23	63.98	-350.05	78.70	355.77	351.14	4.62	76.932	
750.00	749.68	741.46	740.72	2.58	2.41	64.82	-351.48	77.35	355.21	350.23	4.98	71.354	
800.00	799.49	791.65	790.90	2.75	2.59	65.60	-352.71	76.75	354.48	349.15	5.33	66.523	
900.00	899.11	892.37	891.60	3.10	2.94	66.87	-354.67	77.26	352.96	346.93	6.03	58.563	
1,000.00	998.73	992.57	991.78	3.46	3.28	68.08	-356.32	78.14	351.37	344.64	6.72	52.252	
1,001.27	1,000.00	993.85	993.05	3.46	3.29	68.09	-356.34	78.15	351.35	344.62	6.73	52.180	
1,100.00	1,098.18	1,093.60	1,092.79	3.81	3.63	67.62	-357.74	78.91	348.90	341.47	7.43	46.959	
1,200.00	1,197.22	1,193.25	1,192.44	4.18	3.98	68.55	-358.81	79.78	344.83	336.69	8.13	42.394	
1,300.00	1,295.71	1,290.37	1,289.54	4.54	4.32	70.41	-360.09	80.70	340.05	331.21	8.83	38.491	
1,400.00	1,393.53	1,389.24	1,388.40	4.91	4.66	73.14	-361.45	81.79	334.83	325.29	9.55	35.071	
1,414.82	1,407.97	1,403.82	1,402.97	4.97	4.71	73.61	-361.63	81.95	334.03	324.38	9.65	34.603	
1,500.00	1,490.88	1,487.36	1,486.50	5.28	5.01	76.67	-362.60	82.70	329.86	319.60	10.26	32.141	
1,600.00	1,588.22	1,585.07	1,584.20	5.66	5.35	80.37	-363.63	83.39	326.17	315.18	10.98	29.696	
1,700.00	1,685.56	1,682.62	1,681.75	6.04	5.70	84.17	-364.62	83.82	323.93	312.22	11.71	27.666	
1,800.00	1,782.90	1,780.61	1,779.74	6.42	6.05	88.08	-365.46	83.97	323.15	310.71	12.44	25.978	
1,808.20	1,790.88	1,788.69	1,787.81	6.45	6.08	88.40	-365.52	83.98	323.15	310.65	12.50	25.853	CC
1,900.00	1,880.24	1,879.17	1,878.29	6.80	6.40	92.02	-366.02	84.13	323.67	310.50	13.17	24.571	ES
2,000.00	1,977.58	1,979.26	1,978.38	7.18	6.75	95.92	-366.33	84.90	325.28	311.37	13.91	23.388	
2,100.00	2,074.91	2,076.70	2,075.80	7.57	7.09	99.46	-366.46	87.09	327.54	312.91	14.63	22.384	
2,200.00	2,172.25	2,173.62	2,172.67	7.95	7.42	102.75	-367.75	89.76	331.82	316.46	15.36	21.604	
2,300.00	2,269.59	2,273.50	2,272.45	8.34	7.77	105.84	-369.41	93.77	336.78	320.68	16.10	20.920	
2,400.00	2,366.93	2,371.99	2,370.81	8.73	8.12	108.69	-371.17	98.43	342.36	325.53	16.83	20.338	
2,500.00	2,464.27	2,468.36	2,467.14	9.11	8.46	111.73	-371.74	101.16	349.11	331.55	17.56	19.883	
2,600.00	2,561.61	2,567.43	2,566.20	9.50	8.80	114.95	-371.57	102.72	357.19	338.90	18.29	19.528	
2,700.00	2,658.95	2,665.17	2,663.91	9.89	9.14	117.94	-371.34	104.86	365.86	346.84	19.02	19.236	
2,800.00	2,756.29	2,762.69	2,761.42	10.28	9.48	120.76	-371.32	106.89	375.72	355.97	19.75	19.026	
2,900.00	2,853.63	2,861.07	2,859.77	10.67	9.82	123.46	-371.23	109.00	386.39	365.91	20.48	18.867	
3,000.00	2,950.97	2,959.40	2,958.08	11.06	10.17	126.01	-371.09	111.27	397.71	376.50	21.21	18.751	
3,100.00	3,048.31	3,057.08	3,055.73	11.45	10.51	128.42	-370.85	113.52	409.74	387.80	21.94	18.677	
3,200.00	3,145.64	3,154.28	3,152.90	11.84	10.85	130.67	-370.63	115.68	422.53	399.87	22.66	18.644	
3,300.00	3,242.98	3,253.84	3,252.44	12.23	11.20	132.85	-370.34	117.95	435.88	412.48	23.40	18.627	
3,400.00	3,340.32	3,351.53	3,350.10	12.62	11.55	134.84	-370.15	120.50	449.56	425.43	24.13	18.632	
3,500.00	3,437.66	3,448.00	3,446.54	13.01	11.89	136.68	-370.00	122.88	463.88	439.03	24.85	18.667	
3,600.00	3,535.00	3,544.20	3,542.71	13.40	12.23	138.43	-369.84	124.91	479.00	453.43	25.57	18.733	
3,700.00	3,632.34	3,642.78	3,641.27	13.79	12.58	140.13	-369.66	126.88	494.65	468.34	26.30	18.806	
3,800.00	3,729.68	3,739.42	3,737.89	14.19	12.92	141.68	-369.50	128.79	510.71	483.69	27.02	18.899	
3,900.00	3,827.02	3,835.29	3,833.75	14.58	13.26	143.12	-369.53	130.41	527.46	499.72	27.74	19.014	
4,000.00	3,924.36	3,933.94	3,932.38	14.97	13.61	144.49	-369.77	132.13	544.54	516.06	28.48	19.122	
4,100.00	4,021.70	4,029.62	4,028.06	15.36	13.95	145.75	-369.98	133.63	562.06	532.87	29.19	19.253	
4,200.00	4,119.04	4,127.41	4,125.84	15.75	14.30	146.95	-370.28	135.06	579.97	550.05	29.92	19.381	
4,300.00	4,216.37	4,224.39	4,222.80	16.15	14.65	148.06	-370.74	136.47	598.15	567.50	30.65	19.515	
4,400.00	4,313.71	4,320.54	4,318.94	16.54	14.99	149.07	-371.49	137.72	616.74	585.37	31.37	19.659	
4,500.00	4,411.05	4,417.51	4,415.90	16.93	15.34	150.03	-372.20	138.80	635.70	603.60	32.10	19.804	
4,600.00	4,508.39	4,515.25	4,513.63	17.32	15.69	150.95	-372.96	139.87	654.83	622.00	32.83	19.945	
4,700.00	4,605.73	4,612.37	4,610.74	17.72	16.04	151.80	-373.74	140.91	674.16	640.60	33.56	20.087	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,703.07	4,708.87	4,707.24	18.11	16.38	152.61	-374.49	141.85	693.71	659.43	34.29	20.234	
4,900.00	4,800.41	4,804.53	4,802.89	18.50	16.72	153.36	-375.31	142.53	713.65	678.65	35.00	20.388	
5,000.00	4,897.75	4,901.09	4,899.44	18.90	17.07	154.07	-376.33	143.07	733.89	698.16	35.73	20.542	
5,100.00	4,995.09	4,998.48	4,996.83	19.29	17.42	154.74	-377.33	143.51	754.32	717.86	36.46	20.691	
5,200.00	5,092.43	5,097.72	5,096.06	19.68	17.77	155.39	-378.41	144.06	774.76	737.56	37.20	20.827	
5,300.00	5,189.77	5,196.41	5,194.74	20.07	18.12	156.00	-379.47	144.89	795.01	757.07	37.94	20.954	
5,400.00	5,287.10	5,294.66	5,292.99	20.47	18.47	156.57	-380.63	145.71	815.35	776.67	38.68	21.080	
5,500.00	5,384.44	5,392.38	5,390.69	20.86	18.82	157.09	-382.00	146.71	835.60	796.19	39.41	21.201	
5,600.00	5,481.78	5,486.48	5,484.77	21.25	19.16	157.57	-383.45	147.46	856.13	816.01	40.12	21.339	
5,700.00	5,579.12	5,580.96	5,579.24	21.65	19.50	158.02	-384.91	147.77	877.18	836.35	40.83	21.485	
5,800.00	5,676.46	5,677.62	5,675.89	22.04	19.84	158.45	-386.60	147.91	898.48	856.92	41.55	21.623	
5,900.00	5,773.80	5,774.45	5,772.70	22.43	20.18	158.86	-388.32	148.00	919.86	877.59	42.28	21.758	
6,000.00	5,871.14	5,869.47	5,867.70	22.83	20.52	159.24	-390.06	147.95	941.44	898.45	42.99	21.900	
6,100.00	5,968.48	5,966.29	5,964.51	23.22	20.86	159.60	-392.07	147.66	963.30	919.59	43.71	22.037	
6,200.00	6,065.82	6,065.99	6,064.18	23.61	21.21	159.95	-394.19	147.50	985.07	940.61	44.46	22.157	
6,300.00	6,163.16	6,165.26	6,163.44	24.01	21.56	160.32	-395.68	147.56	1,006.64	961.43	45.20	22.269	
6,400.00	6,260.50	6,261.97	6,260.14	24.40	21.91	160.67	-396.89	147.68	1,028.18	982.25	45.93	22.386	
6,500.00	6,357.83	6,360.40	6,358.56	24.79	22.26	161.02	-398.10	147.76	1,049.81	1,003.14	46.67	22.496	
6,600.00	6,455.17	6,467.60	6,465.75	25.19	22.64	161.43	-398.62	148.36	1,071.02	1,023.56	47.46	22.565	
6,700.00	6,552.51	6,570.04	6,568.18	25.58	22.99	161.89	-397.54	149.73	1,091.53	1,043.31	48.22	22.638	
6,800.00	6,649.85	6,669.12	6,667.24	25.98	23.33	162.35	-395.99	151.36	1,111.81	1,062.87	48.95	22.715	
6,900.00	6,747.19	6,760.00	6,758.09	26.37	23.64	162.76	-394.25	152.62	1,132.43	1,082.81	49.62	22.823	
7,000.00	6,844.53	6,855.00	6,853.07	26.76	23.97	163.17	-392.76	153.65	1,153.38	1,103.06	50.32	22.921	
7,100.00	6,941.87	6,933.12	6,931.19	27.16	24.23	163.46	-392.03	153.78	1,175.29	1,124.39	50.89	23.093	
7,115.01	6,956.48	6,949.00	6,947.07	27.22	24.28	163.52	-391.90	153.62	1,178.74	1,127.73	51.01	23.108	
7,150.00	6,990.45	6,974.79	6,972.85	27.35	24.37	149.66	-391.74	153.29	1,186.85	1,135.65	51.20	23.182	
7,200.00	7,038.53	7,018.78	7,016.84	27.55	24.52	134.59	-391.58	152.61	1,198.48	1,146.96	51.52	23.264	
7,250.00	7,085.72	7,065.86	7,063.91	27.75	24.67	124.31	-391.56	151.76	1,210.12	1,158.26	51.86	23.333	
7,300.00	7,131.67	7,117.00	7,115.05	27.94	24.84	117.39	-391.41	151.00	1,221.53	1,169.29	52.24	23.383	
7,350.00	7,176.02	7,162.98	7,161.03	28.13	25.00	112.52	-391.11	150.50	1,232.78	1,180.20	52.58	23.447	
7,400.00	7,218.44	7,204.54	7,202.58	28.32	25.14	108.97	-390.81	150.04	1,244.15	1,191.27	52.88	23.526	
7,450.00	7,258.60	7,242.95	7,240.98	28.50	25.26	106.29	-390.51	149.60	1,255.79	1,202.62	53.17	23.619	
7,500.00	7,296.21	7,276.69	7,274.72	28.67	25.38	104.14	-390.24	149.14	1,267.88	1,214.46	53.42	23.736	
7,550.00	7,330.97	7,307.81	7,305.84	28.84	25.48	102.35	-389.99	148.63	1,280.56	1,226.92	53.65	23.870	
7,600.00	7,362.62	7,337.10	7,335.12	28.99	25.58	100.83	-389.77	148.08	1,293.94	1,240.08	53.86	24.023	
7,650.00	7,390.91	7,365.09	7,363.10	29.15	25.67	99.48	-389.54	147.55	1,308.06	1,253.99	54.07	24.191	
7,700.00	7,415.64	7,389.47	7,387.48	29.30	25.75	98.16	-389.34	147.09	1,322.99	1,268.73	54.25	24.385	
7,750.00	7,436.62	7,410.05	7,408.06	29.44	25.82	96.78	-389.16	146.70	1,338.79	1,284.39	54.41	24.607	
7,800.00	7,453.68	7,426.46	7,424.46	29.57	25.88	95.29	-389.01	146.39	1,355.50	1,300.97	54.53	24.860	
7,825.96	7,460.95	7,433.15	7,431.15	29.64	25.90	94.45	-388.95	146.26	1,364.52	1,309.95	54.57	25.004	
7,900.00	7,477.79	7,448.50	7,446.49	29.84	25.95	93.62	-388.81	145.97	1,392.40	1,337.73	54.68	25.466	
8,000.00	7,493.08	7,462.08	7,460.08	30.11	26.00	91.83	-388.67	145.70	1,435.50	1,380.73	54.76	26.213	
8,100.00	7,499.70	7,467.41	7,465.40	30.38	26.02	89.28	-388.62	145.59	1,484.25	1,429.48	54.78	27.096	
8,125.95	7,499.99	7,467.44	7,465.43	30.45	26.02	88.49	-388.62	145.59	1,497.74	1,442.97	54.77	27.347	
8,200.00	7,499.99	7,466.74	7,464.73	30.65	26.01	88.46	-388.63	145.61	1,537.96	1,483.22	54.74	28.096	
8,300.00	7,499.99	7,465.80	7,463.79	30.94	26.01	88.42	-388.64	145.62	1,596.12	1,541.42	54.70	29.180	
8,400.00	7,499.99	7,464.86	7,462.85	31.24	26.01	88.37	-388.65	145.64	1,658.28	1,603.63	54.66	30.340	
8,500.00	7,499.99	7,463.92	7,461.91	31.56	26.00	88.33	-388.66	145.66	1,724.00	1,669.39	54.61	31.568	
8,600.00	7,500.00	7,462.98	7,460.98	31.88	26.00	88.29	-388.66	145.68	1,792.89	1,738.32	54.57	32.855	
8,700.00	7,500.00	7,462.05	7,460.04	32.22	26.00	88.25	-388.67	145.70	1,864.61	1,810.08	54.53	34.194	
8,800.00	7,500.00	7,461.12	7,459.12	32.58	25.99	88.21	-388.68	145.72	1,938.82	1,884.33	54.49	35.579	
8,900.00	7,500.00	7,460.20	7,458.19	32.94	25.99	88.16	-388.69	145.74	2,015.27	1,960.81	54.46	37.006	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	7,459.28	7,457.27	33.32	25.99	88.12	-388.70	145.76	2,093.70	2,039.28	54.43	38.468	
9,100.00	7,500.00	7,458.36	7,456.36	33.71	25.98	88.08	-388.71	145.77	2,173.91	2,119.51	54.40	39.962	
9,200.00	7,500.00	7,457.45	7,455.44	34.11	25.98	88.04	-388.72	145.79	2,255.69	2,201.32	54.37	41.484	
9,300.00	7,500.00	7,456.54	7,454.53	34.52	25.98	88.00	-388.73	145.81	2,338.89	2,284.54	54.35	43.031	
9,400.00	7,500.00	7,455.63	7,453.62	34.94	25.98	87.96	-388.74	145.83	2,423.36	2,369.03	54.34	44.600	
9,500.00	7,500.00	7,454.72	7,452.72	35.37	25.97	87.92	-388.75	145.85	2,508.98	2,454.65	54.32	46.188	
9,600.00	7,500.00	7,453.82	7,451.82	35.81	25.97	87.88	-388.75	145.86	2,595.62	2,541.31	54.31	47.793	
9,700.00	7,500.00	7,452.92	7,450.92	36.26	25.97	87.84	-388.76	145.88	2,683.19	2,628.89	54.30	49.414	
9,800.00	7,500.00	7,452.03	7,450.02	36.73	25.96	87.80	-388.77	145.90	2,771.60	2,717.30	54.29	51.047	
9,900.00	7,500.00	7,451.13	7,449.13	37.20	25.96	87.76	-388.78	145.92	2,860.77	2,806.48	54.29	52.693	
10,000.00	7,500.00	7,450.25	7,448.24	37.68	25.96	87.72	-388.79	145.93	2,950.64	2,896.35	54.29	54.348	
10,100.00	7,500.00	7,449.36	7,447.36	38.17	25.95	87.68	-388.80	145.95	3,041.14	2,986.85	54.29	56.013	
10,200.00	7,500.00	7,448.48	7,446.47	38.66	25.95	87.64	-388.81	145.97	3,132.22	3,077.92	54.30	57.686	
10,300.00	7,500.00	7,447.60	7,445.59	39.17	25.95	87.60	-388.81	145.99	3,223.82	3,169.52	54.30	59.366	
10,400.00	7,500.00	7,446.72	7,444.72	39.68	25.95	87.56	-388.82	146.00	3,315.92	3,261.60	54.31	61.052	
10,500.00	7,500.00	7,445.85	7,443.84	40.20	25.94	87.52	-388.83	146.02	3,408.45	3,354.13	54.32	62.744	
10,600.00	7,500.00	7,444.98	7,442.97	40.73	25.94	87.48	-388.84	146.04	3,501.40	3,447.06	54.34	64.440	
10,700.00	7,500.00	7,444.11	7,442.10	41.26	25.94	87.44	-388.85	146.05	3,594.73	3,540.37	54.35	66.139	
10,800.00	7,500.00	7,443.24	7,441.24	41.80	25.93	87.40	-388.86	146.07	3,688.40	3,634.03	54.37	67.842	
10,900.00	7,500.00	7,442.38	7,440.38	42.35	25.93	87.36	-388.86	146.09	3,782.40	3,728.01	54.39	69.548	
11,000.00	7,500.00	7,441.52	7,439.52	42.91	25.93	87.33	-388.87	146.10	3,876.70	3,822.29	54.41	71.256	
11,100.00	7,500.00	12,455.00	10,757.23	43.47	47.99	157.99	-2,385.07	111.54	3,932.67	3,863.35	69.32	56.735	
11,200.00	7,500.00	12,455.00	10,757.23	44.03	47.99	157.99	-2,385.07	111.54	3,978.56	3,908.66	69.90	56.919	
11,300.00	7,500.00	12,455.00	10,757.23	44.61	47.99	157.99	-2,385.07	111.54	4,026.41	3,955.95	70.46	57.144	
11,400.00	7,500.00	12,455.00	10,757.23	45.18	47.99	157.99	-2,385.07	111.54	4,076.15	4,005.15	71.00	57.409	
11,500.00	7,500.00	12,455.00	10,757.23	45.77	47.99	157.99	-2,385.07	111.54	4,127.72	4,056.19	71.52	57.711	
11,581.32	7,500.00	12,455.00	10,757.23	46.24	47.99	157.99	-2,385.07	111.54	4,170.95	4,099.01	71.93	57.984	
11,600.00	7,500.00	12,455.00	10,757.23	46.35	47.99	158.78	-2,385.07	111.54	4,181.10	4,109.08	72.03	58.050	
11,650.00	7,500.00	12,455.00	10,757.23	46.65	47.99	160.99	-2,385.07	111.54	4,209.19	4,136.91	72.28	58.233	
11,700.00	7,500.00	12,455.00	10,757.23	46.96	47.99	163.38	-2,385.07	111.54	4,238.48	4,165.93	72.55	58.425	
11,750.00	7,500.00	12,455.00	10,757.23	47.27	47.99	165.95	-2,385.07	111.54	4,268.85	4,196.03	72.82	58.625	
11,800.00	7,500.00	12,455.00	10,757.23	47.59	47.99	168.67	-2,385.07	111.54	4,300.16	4,227.06	73.09	58.830	
11,850.00	7,500.00	12,455.00	10,757.23	47.91	47.99	171.54	-2,385.07	111.54	4,332.27	4,258.89	73.38	59.041	
11,900.00	7,500.00	12,455.00	10,757.23	48.23	47.99	174.53	-2,385.07	111.54	4,365.06	4,291.39	73.67	59.255	
11,950.00	7,500.00	12,455.00	10,757.23	48.56	47.99	177.63	-2,385.07	111.54	4,398.39	4,324.43	73.96	59.470	
12,000.00	7,500.00	12,455.00	10,757.23	48.88	47.99	-179.19	-2,385.07	111.54	4,432.12	4,357.86	74.26	59.685	
12,050.00	7,500.00	12,455.00	10,757.23	49.20	47.99	-175.97	-2,385.07	111.54	4,466.13	4,391.57	74.56	59.899	
12,100.00	7,500.00	12,455.00	10,757.23	49.52	47.99	-172.74	-2,385.07	111.54	4,500.28	4,425.41	74.87	60.109	
12,150.00	7,500.00	12,455.00	10,757.23	49.83	47.99	-169.52	-2,385.07	111.54	4,534.45	4,459.27	75.18	60.315	
12,200.00	7,500.00	12,455.00	10,757.23	50.14	47.99	-166.36	-2,385.07	111.54	4,568.50	4,493.01	75.49	60.515	
12,250.00	7,500.00	12,455.00	10,757.23	50.44	47.99	-163.28	-2,385.07	111.54	4,602.33	4,526.52	75.81	60.707	
12,300.00	7,500.00	12,455.00	10,757.23	50.74	47.99	-160.31	-2,385.07	111.54	4,635.81	4,559.68	76.13	60.890	
12,350.00	7,500.00	12,455.00	10,757.23	51.02	47.99	-157.46	-2,385.07	111.54	4,668.83	4,592.37	76.46	61.062	
12,400.00	7,500.00	12,455.00	10,757.23	51.30	47.99	-154.75	-2,385.07	111.54	4,701.28	4,624.49	76.79	61.222	
12,450.00	7,500.00	12,455.00	10,757.23	51.56	47.99	-152.19	-2,385.07	111.54	4,733.05	4,655.92	77.12	61.369	
12,500.00	7,500.00	12,455.00	10,757.23	51.81	47.99	-149.79	-2,385.07	111.54	4,764.04	4,686.57	77.46	61.502	
12,550.00	7,500.00	12,455.00	10,757.23	52.05	47.99	-147.55	-2,385.07	111.54	4,794.14	4,716.34	77.80	61.619	
12,600.00	7,500.00	12,455.00	10,757.23	52.27	47.99	-145.47	-2,385.07	111.54	4,823.28	4,745.13	78.15	61.719	
12,650.00	7,500.00	12,455.00	10,757.23	52.48	47.99	-143.55	-2,385.07	111.54	4,851.36	4,772.86	78.50	61.802	
12,700.00	7,500.00	12,455.00	10,757.23	52.67	47.99	-141.78	-2,385.07	111.54	4,878.29	4,799.44	78.85	61.866	
12,750.00	7,500.00	12,455.00	10,757.23	52.84	47.99	-140.17	-2,385.07	111.54	4,904.00	4,824.78	79.21	61.910	
12,800.00	7,500.00	12,455.00	10,757.23	53.00	47.99	-138.69	-2,385.07	111.54	4,928.40	4,848.83	79.57	61.934	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,850.00	7,500.00	12,455.00	10,757.23	53.14	47.99	-137.35	-2,385.07	111.54	4,951.44	4,871.50	79.94	61.937	
12,900.00	7,500.00	12,455.00	10,757.23	53.27	47.99	-136.14	-2,385.07	111.54	4,973.05	4,892.74	80.31	61.919	
12,950.00	7,500.00	12,455.00	10,757.23	53.37	47.99	-135.04	-2,385.07	111.54	4,993.16	4,912.47	80.69	61.880	
13,000.00	7,500.00	12,455.00	10,757.23	53.46	47.99	-134.07	-2,385.07	111.54	5,011.73	4,930.65	81.07	61.818	
13,050.00	7,500.00	12,455.00	10,757.23	53.53	47.99	-133.20	-2,385.07	111.54	5,028.69	4,947.23	81.46	61.734	
13,100.00	7,500.00	12,455.00	10,757.23	53.58	47.99	-132.44	-2,385.07	111.54	5,044.01	4,962.16	81.85	61.628	
13,150.00	7,500.00	12,455.00	10,757.23	53.62	47.99	-131.78	-2,385.07	111.54	5,057.63	4,975.40	82.24	61.499	
13,200.00	7,500.00	12,455.00	10,757.23	53.63	47.99	-131.22	-2,385.07	111.54	5,069.54	4,986.90	82.63	61.349	
13,250.00	7,500.00	12,455.00	10,757.23	53.63	47.99	-130.75	-2,385.07	111.54	5,079.69	4,996.66	83.03	61.176	
13,300.00	7,500.00	12,455.00	10,757.23	53.62	47.99	-130.36	-2,385.07	111.54	5,088.06	5,004.62	83.44	60.982	
13,350.00	7,500.00	12,455.00	10,757.23	53.58	47.99	-130.07	-2,385.07	111.54	5,094.62	5,010.78	83.84	60.766	
13,400.00	7,500.00	12,455.00	10,757.23	53.54	47.99	-129.85	-2,385.07	111.54	5,099.36	5,015.12	84.25	60.530	
13,450.00	7,500.00	12,455.00	10,757.23	53.48	47.99	-129.72	-2,385.07	111.54	5,102.27	5,017.62	84.65	60.273	
13,500.00	7,500.00	12,455.00	10,757.23	53.40	47.99	-129.68	-2,385.07	111.54	5,103.34	5,018.28	85.06	59.997	
13,550.00	7,500.00	12,455.00	10,757.23	53.32	47.99	-129.71	-2,385.07	111.54	5,102.57	5,017.10	85.47	59.701	
13,600.00	7,500.00	12,455.00	10,757.23	53.22	47.99	-129.83	-2,385.07	111.54	5,099.95	5,014.07	85.88	59.387	
13,650.00	7,500.00	12,455.00	10,757.23	53.12	47.99	-130.03	-2,385.07	111.54	5,095.50	5,009.21	86.28	59.054	
13,700.00	7,500.00	12,455.00	10,757.23	53.00	47.99	-130.31	-2,385.07	111.54	5,089.22	5,002.53	86.69	58.705	
13,750.00	7,500.00	12,455.00	10,757.23	52.88	47.99	-130.68	-2,385.07	111.54	5,081.14	4,994.04	87.10	58.339	
13,800.00	7,500.00	12,455.00	10,757.23	52.75	47.99	-131.14	-2,385.07	111.54	5,071.27	4,983.77	87.50	57.958	
13,850.00	7,500.00	12,455.00	10,757.23	52.61	47.99	-131.69	-2,385.07	111.54	5,059.64	4,971.74	87.90	57.562	
13,900.00	7,500.00	12,455.00	10,757.23	52.48	47.99	-132.33	-2,385.07	111.54	5,046.29	4,957.99	88.30	57.151	
13,950.00	7,500.00	12,455.00	10,757.23	52.33	47.99	-133.08	-2,385.07	111.54	5,031.24	4,942.55	88.69	56.727	
14,000.00	7,500.00	12,455.00	10,757.23	52.19	47.99	-133.92	-2,385.07	111.54	5,014.53	4,925.45	89.08	56.291	
14,050.00	7,500.00	12,455.00	10,757.23	52.05	47.99	-134.88	-2,385.07	111.54	4,996.22	4,906.75	89.47	55.843	
14,100.00	7,500.00	12,455.00	10,757.23	51.90	47.99	-135.95	-2,385.07	111.54	4,976.35	4,886.50	89.85	55.383	
14,105.32	7,500.00	12,455.00	10,757.23	51.89	47.99	-136.07	-2,385.07	111.54	4,974.15	4,884.26	89.89	55.334	
14,200.00	7,500.00	12,455.00	10,757.23	51.63	47.99	-136.71	-2,385.07	111.54	4,934.54	4,843.93	90.61	54.458	
14,300.00	7,500.00	12,455.00	10,757.23	51.35	47.99	-137.39	-2,385.07	111.54	4,892.22	4,800.85	91.37	53.542	
14,333.98	7,500.00	12,455.00	10,757.23	51.26	47.99	-137.63	-2,385.07	111.54	4,877.74	4,786.11	91.63	53.233	
14,400.00	7,500.00	12,455.00	10,757.23	51.09	47.99	-137.63	-2,385.07	111.54	4,849.90	4,757.77	92.13	52.642	
14,500.00	7,500.00	12,455.00	10,757.23	50.84	47.99	-137.63	-2,385.07	111.54	4,809.16	4,716.27	92.89	51.771	
14,600.00	7,500.00	12,455.00	10,757.23	50.59	47.99	-137.63	-2,385.07	111.54	4,770.17	4,676.51	93.66	50.930	
14,700.00	7,500.00	7,412.72	7,410.72	50.35	25.83	-88.27	-389.14	146.65	4,729.90	4,671.77	58.13	81.368	
14,800.00	7,500.00	7,413.59	7,411.59	50.12	25.83	-88.29	-389.13	146.63	4,651.81	4,593.57	58.24	79.869	
14,900.00	7,500.00	7,414.46	7,412.47	49.90	25.84	-88.31	-389.12	146.62	4,574.57	4,516.20	58.37	78.373	
15,000.00	7,500.00	7,415.34	7,413.34	49.69	25.84	-88.32	-389.11	146.60	4,498.22	4,439.71	58.51	76.879	
15,100.00	7,500.00	7,416.22	7,414.22	49.48	25.84	-88.34	-389.10	146.58	4,422.82	4,364.16	58.67	75.388	
15,200.00	7,500.00	7,417.10	7,415.10	49.28	25.85	-88.36	-389.10	146.57	4,348.42	4,289.58	58.84	73.903	
15,300.00	7,500.00	7,417.99	7,415.99	49.09	25.85	-88.38	-389.09	146.55	4,275.05	4,216.02	59.03	72.423	
15,400.00	7,500.00	7,418.87	7,416.88	48.91	25.85	-88.39	-389.08	146.53	4,202.79	4,143.55	59.24	70.949	
15,500.00	7,500.00	7,419.76	7,417.77	48.74	25.86	-88.41	-389.07	146.52	4,131.68	4,072.21	59.46	69.484	
15,600.00	7,500.00	7,420.66	7,418.66	48.57	25.86	-88.43	-389.06	146.50	4,061.78	4,002.08	59.71	68.028	
15,700.00	7,500.00	7,422.00	7,420.00	48.42	25.86	-88.45	-389.05	146.47	3,993.17	3,933.20	59.98	66.579	
15,800.00	7,500.00	7,422.00	7,420.00	48.27	25.86	-88.45	-389.05	146.47	3,925.91	3,865.66	60.25	65.157	
15,900.00	7,500.00	7,422.00	7,420.00	48.13	25.86	-88.45	-389.05	146.47	3,860.06	3,799.51	60.55	63.748	
16,000.00	7,500.00	7,422.00	7,420.00	48.01	25.86	-88.45	-389.05	146.47	3,795.71	3,734.84	60.87	62.356	
16,100.00	7,500.00	7,422.00	7,420.00	47.89	25.86	-88.45	-389.05	146.47	3,732.93	3,671.72	61.21	60.983	
16,200.00	7,500.00	7,422.00	7,420.00	47.78	25.86	-88.45	-389.05	146.47	3,671.80	3,610.22	61.58	59.630	
16,300.00	7,500.00	7,426.43	7,424.43	47.68	25.88	-88.54	-389.01	146.39	3,612.40	3,550.39	62.01	58.258	
16,400.00	7,500.00	7,427.24	7,425.24	47.59	25.88	-88.56	-389.00	146.38	3,554.82	3,492.40	62.42	56.946	
16,500.00	7,500.00	7,428.06	7,426.06	47.51	25.88	-88.57	-389.00	146.36	3,499.15	3,436.29	62.86	55.662	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	7,500.00	7,428.88	7,426.88	47.44	25.89	-88.59	-388.99	146.35	3,445.49	3,382.16	63.33	54.409	
16,700.00	7,500.00	7,429.70	7,427.70	47.39	25.89	-88.61	-388.98	146.33	3,393.92	3,330.12	63.81	53.190	
16,800.00	7,500.00	7,430.53	7,428.53	47.34	25.89	-88.62	-388.97	146.31	3,344.55	3,280.25	64.31	52.007	
16,900.00	7,500.00	7,431.36	7,429.36	47.31	25.89	-88.64	-388.97	146.30	3,297.48	3,232.65	64.83	50.863	
17,000.00	7,500.00	7,432.19	7,430.19	47.29	25.90	-88.65	-388.96	146.28	3,252.80	3,187.43	65.37	49.760	
17,100.00	7,500.00	7,433.02	7,431.02	47.28	25.90	-88.67	-388.95	146.27	3,210.61	3,144.68	65.92	48.702	
17,200.00	7,500.00	7,433.86	7,431.86	47.28	25.90	-88.69	-388.94	146.25	3,171.01	3,104.52	66.49	47.692	
17,300.00	7,500.00	7,434.70	7,432.69	47.30	25.91	-88.70	-388.94	146.23	3,134.11	3,067.04	67.07	46.731	
17,400.00	7,500.00	7,435.54	7,433.54	47.33	25.91	-88.72	-388.93	146.22	3,099.99	3,032.34	67.65	45.822	
17,500.00	7,500.00	7,436.38	7,434.38	47.37	25.91	-88.74	-388.92	146.20	3,068.75	3,000.51	68.24	44.967	
17,600.00	7,500.00	7,437.23	7,435.23	47.43	25.91	-88.75	-388.91	146.19	3,040.49	2,971.65	68.84	44.170	
17,700.00	7,500.00	7,438.08	7,436.08	47.50	25.92	-88.77	-388.90	146.17	3,015.27	2,945.85	69.43	43.431	
17,800.00	7,500.00	7,438.94	7,436.93	47.59	25.92	-88.79	-388.90	146.15	2,993.19	2,923.18	70.01	42.752	
17,900.00	7,500.00	7,439.79	7,437.79	47.69	25.92	-88.80	-388.89	146.14	2,974.30	2,903.71	70.59	42.135	
18,000.00	7,500.00	7,440.65	7,438.65	47.81	25.93	-88.82	-388.88	146.12	2,958.68	2,887.53	71.15	41.582	
18,100.00	7,500.00	7,441.51	7,439.51	47.94	25.93	-88.84	-388.87	146.10	2,946.37	2,874.67	71.70	41.092	
18,200.00	7,500.00	7,442.38	7,440.38	48.08	25.93	-88.85	-388.86	146.09	2,937.41	2,865.18	72.23	40.668	
18,300.00	7,500.00	7,443.25	7,441.25	48.25	25.93	-88.87	-388.86	146.07	2,931.84	2,859.10	72.74	40.308	
18,400.00	7,500.00	7,444.12	7,442.12	48.42	25.94	-88.89	-388.85	146.05	2,929.67	2,856.46	73.21	40.015	
18,413.53	7,500.00	7,444.24	7,442.24	48.45	25.94	-88.89	-388.85	146.05	2,929.64	2,856.36	73.28	39.980	
18,461.64	7,500.00	7,444.66	7,442.66	48.54	25.94	-88.90	-388.84	146.04	2,930.04	2,856.54	73.50	39.867	
18,462.14	7,500.00	7,444.66	7,442.66	49.47	25.94	-88.90	-388.84	146.04	2,930.04	2,856.57	73.47	39.879	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	162.86	-332.67	102.57	348.12				
100.00	100.00	95.97	95.96	0.28	0.16	163.05	-333.40	101.63	348.55	348.12	0.43	812.516	
200.00	200.00	193.86	193.79	0.63	0.42	163.56	-335.48	98.97	349.82	348.77	1.05	334.372	
300.00	300.00	294.04	293.86	0.99	0.78	164.27	-338.07	95.21	351.26	349.49	1.77	198.610	
400.00	400.00	393.40	393.09	1.35	1.14	165.06	-340.85	90.94	352.82	350.33	2.49	141.712	
500.00	500.00	492.71	492.28	1.71	1.50	165.84	-343.80	86.72	354.63	351.42	3.21	110.458	
600.00	599.98	591.75	591.19	2.06	1.87	62.48	-346.82	82.77	355.84	351.92	3.92	90.790	
700.00	699.84	691.38	690.68	2.40	2.23	63.98	-350.05	78.70	355.77	351.14	4.62	76.932	
750.00	749.68	741.46	740.72	2.58	2.41	64.82	-351.48	77.35	355.21	350.23	4.98	71.354	
800.00	799.49	791.65	790.90	2.75	2.59	65.60	-352.71	76.75	354.48	349.15	5.33	66.523	
900.00	899.11	892.37	891.60	3.10	2.94	66.87	-354.67	77.26	352.96	346.93	6.03	58.563	
1,000.00	998.73	992.57	991.78	3.46	3.28	68.08	-356.32	78.14	351.37	344.64	6.72	52.252	
1,001.27	1,000.00	993.85	993.05	3.46	3.29	68.09	-356.34	78.15	351.35	344.62	6.73	52.180	
1,100.00	1,098.18	1,093.60	1,092.79	3.81	3.63	67.62	-357.74	78.91	348.90	341.47	7.43	46.959	
1,200.00	1,197.22	1,193.25	1,192.44	4.18	3.98	68.55	-358.81	79.78	344.83	336.69	8.13	42.394	
1,300.00	1,295.71	1,290.37	1,289.54	4.54	4.32	70.41	-360.09	80.70	340.05	331.21	8.83	38.491	
1,400.00	1,393.53	1,389.24	1,388.40	4.91	4.66	73.14	-361.45	81.79	334.83	325.29	9.55	35.071	
1,414.82	1,407.97	1,403.82	1,402.97	4.97	4.71	73.61	-361.63	81.95	334.03	324.38	9.65	34.603	
1,500.00	1,490.88	1,487.36	1,486.50	5.28	5.01	76.67	-362.60	82.70	329.86	319.60	10.26	32.141	
1,600.00	1,588.22	1,585.07	1,584.20	5.66	5.35	80.37	-363.63	83.39	326.17	315.18	10.98	29.696	
1,700.00	1,685.56	1,682.62	1,681.75	6.04	5.70	84.17	-364.62	83.82	323.93	312.22	11.71	27.666	
1,800.00	1,782.90	1,780.61	1,779.74	6.42	6.05	88.08	-365.46	83.97	323.15	310.71	12.44	25.978	
1,808.20	1,790.88	1,788.69	1,787.81	6.45	6.08	88.40	-365.52	83.98	323.15	310.65	12.50	25.853	CC
1,900.00	1,880.24	1,879.17	1,878.29	6.80	6.40	92.02	-366.02	84.13	323.67	310.50	13.17	24.571	ES
2,000.00	1,977.58	1,979.26	1,978.38	7.18	6.75	95.92	-366.33	84.90	325.28	311.37	13.91	23.388	
2,100.00	2,074.91	2,076.70	2,075.80	7.57	7.09	99.46	-366.46	87.09	327.54	312.91	14.63	22.384	
2,200.00	2,172.25	2,173.62	2,172.67	7.95	7.42	102.75	-367.75	89.76	331.82	316.46	15.36	21.604	
2,300.00	2,269.59	2,273.50	2,272.45	8.34	7.77	105.84	-369.41	93.77	336.78	320.68	16.10	20.920	
2,400.00	2,366.93	2,371.99	2,370.81	8.73	8.12	108.69	-371.17	98.43	342.36	325.53	16.83	20.338	
2,500.00	2,464.27	2,468.36	2,467.14	9.11	8.46	111.73	-371.74	101.16	349.11	331.55	17.56	19.883	
2,600.00	2,561.61	2,567.43	2,566.20	9.50	8.80	114.95	-371.57	102.72	357.19	338.90	18.29	19.528	
2,700.00	2,658.95	2,665.17	2,663.91	9.89	9.14	117.94	-371.34	104.86	365.86	346.84	19.02	19.236	
2,800.00	2,756.29	2,762.69	2,761.42	10.28	9.48	120.76	-371.32	106.89	375.72	355.97	19.75	19.026	
2,900.00	2,853.63	2,861.07	2,859.77	10.67	9.82	123.46	-371.23	109.00	386.39	365.91	20.48	18.867	
3,000.00	2,950.97	2,959.40	2,958.08	11.06	10.17	126.01	-371.09	111.27	397.71	376.50	21.21	18.751	
3,100.00	3,048.31	3,057.08	3,055.73	11.45	10.51	128.42	-370.85	113.52	409.74	387.80	21.94	18.677	
3,200.00	3,145.64	3,154.28	3,152.90	11.84	10.85	130.67	-370.63	115.68	422.53	399.87	22.66	18.644	
3,300.00	3,242.98	3,253.84	3,252.44	12.23	11.20	132.85	-370.34	117.95	435.88	412.48	23.40	18.627	
3,400.00	3,340.32	3,351.53	3,350.10	12.62	11.55	134.84	-370.15	120.50	449.56	425.43	24.13	18.632	
3,500.00	3,437.66	3,448.00	3,446.54	13.01	11.89	136.68	-370.00	122.88	463.88	439.03	24.85	18.667	
3,600.00	3,535.00	3,544.20	3,542.71	13.40	12.23	138.43	-369.84	124.91	479.00	453.43	25.57	18.733	
3,700.00	3,632.34	3,642.78	3,641.27	13.79	12.58	140.13	-369.66	126.88	494.65	468.34	26.30	18.806	
3,800.00	3,729.68	3,739.42	3,737.89	14.19	12.92	141.68	-369.50	128.79	510.71	483.69	27.02	18.899	
3,900.00	3,827.02	3,835.29	3,833.75	14.58	13.26	143.12	-369.53	130.41	527.46	499.72	27.74	19.014	
4,000.00	3,924.36	3,933.94	3,932.38	14.97	13.61	144.49	-369.77	132.13	544.54	516.06	28.48	19.122	
4,100.00	4,021.70	4,029.62	4,028.06	15.36	13.95	145.75	-369.98	133.63	562.06	532.87	29.19	19.253	
4,200.00	4,119.04	4,127.41	4,125.84	15.75	14.30	146.95	-370.28	135.06	579.97	550.05	29.92	19.381	
4,300.00	4,216.37	4,224.39	4,222.80	16.15	14.65	148.06	-370.74	136.47	598.15	567.50	30.65	19.515	
4,400.00	4,313.71	4,320.54	4,318.94	16.54	14.99	149.07	-371.49	137.72	616.74	585.37	31.37	19.659	
4,500.00	4,411.05	4,417.51	4,415.90	16.93	15.34	150.03	-372.20	138.80	635.70	603.60	32.10	19.804	
4,600.00	4,508.39	4,515.25	4,513.63	17.32	15.69	150.95	-372.96	139.87	654.83	622.00	32.83	19.945	
4,700.00	4,605.73	4,612.37	4,610.74	17.72	16.04	151.80	-373.74	140.91	674.16	640.60	33.56	20.087	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,703.07	4,708.87	4,707.24	18.11	16.38	152.61	-374.49	141.85	693.71	659.43	34.29	20.234	
4,900.00	4,800.41	4,804.53	4,802.89	18.50	16.72	153.36	-375.31	142.53	713.65	678.65	35.00	20.388	
5,000.00	4,897.75	4,901.09	4,899.44	18.90	17.07	154.07	-376.33	143.07	733.89	698.16	35.73	20.542	
5,100.00	4,995.09	4,998.48	4,996.83	19.29	17.42	154.74	-377.33	143.51	754.32	717.86	36.46	20.691	
5,200.00	5,092.43	5,097.72	5,096.06	19.68	17.77	155.39	-378.41	144.06	774.76	737.56	37.20	20.827	
5,300.00	5,189.77	5,196.41	5,194.74	20.07	18.12	156.00	-379.47	144.89	795.01	757.07	37.94	20.954	
5,400.00	5,287.10	5,294.66	5,292.99	20.47	18.47	156.57	-380.63	145.71	815.35	776.67	38.68	21.080	
5,500.00	5,384.44	5,392.38	5,390.69	20.86	18.82	157.09	-382.00	146.71	835.60	796.19	39.41	21.201	
5,600.00	5,481.78	5,486.48	5,484.77	21.25	19.16	157.57	-383.45	147.46	856.13	816.01	40.12	21.339	
5,700.00	5,579.12	5,580.96	5,579.24	21.65	19.50	158.02	-384.91	147.77	877.18	836.35	40.83	21.485	
5,800.00	5,676.46	5,677.62	5,675.89	22.04	19.84	158.45	-386.60	147.91	898.48	856.92	41.55	21.623	
5,900.00	5,773.80	5,774.45	5,772.70	22.43	20.18	158.86	-388.32	148.00	919.86	877.59	42.28	21.758	
6,000.00	5,871.14	5,869.47	5,867.70	22.83	20.52	159.24	-390.06	147.95	941.44	898.45	42.99	21.900	
6,100.00	5,968.48	5,966.29	5,964.51	23.22	20.86	159.60	-392.07	147.66	963.30	919.59	43.71	22.037	
6,200.00	6,065.82	6,065.99	6,064.18	23.61	21.21	159.95	-394.19	147.50	985.07	940.61	44.46	22.157	
6,300.00	6,163.16	6,165.26	6,163.44	24.01	21.56	160.32	-395.68	147.56	1,006.64	961.43	45.20	22.269	
6,400.00	6,260.50	6,261.97	6,260.14	24.40	21.91	160.67	-396.89	147.68	1,028.18	982.25	45.93	22.386	
6,500.00	6,357.83	6,360.40	6,358.56	24.79	22.26	161.02	-398.10	147.76	1,049.81	1,003.14	46.67	22.496	
6,600.00	6,455.17	6,467.60	6,465.75	25.19	22.64	161.43	-398.62	148.36	1,071.02	1,023.56	47.46	22.565	
6,700.00	6,552.51	6,570.04	6,568.18	25.58	22.99	161.89	-397.54	149.73	1,091.53	1,043.31	48.22	22.638	
6,800.00	6,649.85	6,669.12	6,667.24	25.98	23.33	162.35	-395.99	151.36	1,111.81	1,062.87	48.95	22.715	
6,900.00	6,747.19	6,760.00	6,758.09	26.37	23.64	162.76	-394.25	152.62	1,132.43	1,082.81	49.62	22.823	
7,000.00	6,844.53	6,855.00	6,853.07	26.76	23.97	163.17	-392.76	153.65	1,153.38	1,103.06	50.32	22.921	
7,100.00	6,941.87	6,933.12	6,931.19	27.16	24.23	163.46	-392.03	153.78	1,175.29	1,124.39	50.89	23.093	
7,115.01	6,956.48	6,949.00	6,947.07	27.22	24.28	163.52	-391.90	153.62	1,178.74	1,127.73	51.01	23.108	
7,150.00	6,990.45	6,974.79	6,972.85	27.35	24.37	149.66	-391.74	153.29	1,186.85	1,135.65	51.20	23.182	
7,200.00	7,038.53	7,018.78	7,016.84	27.55	24.52	134.59	-391.58	152.61	1,198.48	1,146.96	51.52	23.264	
7,250.00	7,085.72	7,065.86	7,063.91	27.75	24.67	124.31	-391.56	151.76	1,210.12	1,158.26	51.86	23.333	
7,300.00	7,131.67	7,117.00	7,115.05	27.94	24.84	117.39	-391.41	151.00	1,221.53	1,169.29	52.24	23.383	
7,350.00	7,176.02	7,162.98	7,161.03	28.13	25.00	112.52	-391.11	150.50	1,232.78	1,180.20	52.58	23.447	
7,400.00	7,218.44	7,204.54	7,202.58	28.32	25.14	108.97	-390.81	150.04	1,244.15	1,191.27	52.88	23.526	
7,450.00	7,258.60	7,242.95	7,240.98	28.50	25.26	106.29	-390.51	149.60	1,255.79	1,202.62	53.17	23.619	
7,500.00	7,296.21	7,276.69	7,274.72	28.67	25.38	104.14	-390.24	149.14	1,267.88	1,214.46	53.42	23.736	
7,550.00	7,330.97	7,307.81	7,305.84	28.84	25.48	102.35	-389.99	148.63	1,280.56	1,226.92	53.65	23.870	
7,600.00	7,362.62	7,337.10	7,335.12	28.99	25.58	100.83	-389.77	148.08	1,293.94	1,240.08	53.86	24.023	
7,650.00	7,390.91	7,365.09	7,363.10	29.15	25.67	99.48	-389.54	147.55	1,308.06	1,253.99	54.07	24.191	
7,700.00	7,415.64	7,389.47	7,387.48	29.30	25.75	98.16	-389.34	147.09	1,322.99	1,268.73	54.25	24.385	
7,750.00	7,436.62	7,410.05	7,408.06	29.44	25.82	96.78	-389.16	146.70	1,338.79	1,284.39	54.41	24.607	
7,800.00	7,453.68	7,426.46	7,424.46	29.57	25.88	95.29	-389.01	146.39	1,355.50	1,300.97	54.53	24.860	
7,825.96	7,460.95	7,433.15	7,431.15	29.64	25.90	94.45	-388.95	146.26	1,364.52	1,309.95	54.57	25.004	
7,900.00	7,477.79	7,448.50	7,446.49	29.84	25.95	93.62	-388.81	145.97	1,392.40	1,337.73	54.68	25.466	
8,000.00	7,493.08	7,462.08	7,460.08	30.11	26.00	91.83	-388.67	145.70	1,435.50	1,380.73	54.76	26.213	
8,100.00	7,499.70	7,467.41	7,465.40	30.38	26.02	89.28	-388.62	145.59	1,484.25	1,429.48	54.78	27.096	
8,125.95	7,499.99	7,467.44	7,465.43	30.45	26.02	88.49	-388.62	145.59	1,497.74	1,442.97	54.77	27.347	
8,200.00	7,499.99	7,466.74	7,464.73	30.65	26.01	88.46	-388.63	145.61	1,537.96	1,483.22	54.74	28.096	
8,300.00	7,499.99	7,465.80	7,463.79	30.94	26.01	88.42	-388.64	145.62	1,596.12	1,541.42	54.70	29.180	
8,400.00	7,499.99	7,464.86	7,462.85	31.24	26.01	88.37	-388.65	145.64	1,658.28	1,603.63	54.66	30.340	
8,500.00	7,499.99	7,463.92	7,461.91	31.56	26.00	88.33	-388.66	145.66	1,724.00	1,669.39	54.61	31.568	
8,600.00	7,500.00	7,462.98	7,460.98	31.88	26.00	88.29	-388.66	145.68	1,792.89	1,738.32	54.57	32.855	
8,700.00	7,500.00	7,462.05	7,460.04	32.22	26.00	88.25	-388.67	145.70	1,864.61	1,810.08	54.53	34.194	
8,800.00	7,500.00	7,461.12	7,459.12	32.58	25.99	88.21	-388.68	145.72	1,938.82	1,884.33	54.49	35.579	
8,900.00	7,500.00	7,460.20	7,458.19	32.94	25.99	88.16	-388.69	145.74	2,015.27	1,960.81	54.46	37.006	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	7,459.28	7,457.27	33.32	25.99	88.12	-388.70	145.76	2,093.70	2,039.28	54.43	38.468	
9,100.00	7,500.00	7,458.36	7,456.36	33.71	25.98	88.08	-388.71	145.77	2,173.91	2,119.51	54.40	39.962	
9,200.00	7,500.00	7,457.45	7,455.44	34.11	25.98	88.04	-388.72	145.79	2,255.69	2,201.32	54.37	41.484	
9,300.00	7,500.00	7,456.54	7,454.53	34.52	25.98	88.00	-388.73	145.81	2,338.89	2,284.54	54.35	43.031	
9,400.00	7,500.00	7,455.63	7,453.62	34.94	25.98	87.96	-388.74	145.83	2,423.36	2,369.03	54.34	44.600	
9,500.00	7,500.00	7,454.72	7,452.72	35.37	25.97	87.92	-388.75	145.85	2,508.98	2,454.65	54.32	46.188	
9,600.00	7,500.00	7,453.82	7,451.82	35.81	25.97	87.88	-388.75	145.86	2,595.62	2,541.31	54.31	47.793	
9,700.00	7,500.00	7,452.92	7,450.92	36.26	25.97	87.84	-388.76	145.88	2,683.19	2,628.89	54.30	49.414	
9,800.00	7,500.00	7,452.03	7,450.02	36.73	25.96	87.80	-388.77	145.90	2,771.60	2,717.30	54.29	51.047	
9,900.00	7,500.00	7,451.13	7,449.13	37.20	25.96	87.76	-388.78	145.92	2,860.77	2,806.48	54.29	52.693	
10,000.00	7,500.00	7,450.25	7,448.24	37.68	25.96	87.72	-388.79	145.93	2,950.64	2,896.35	54.29	54.348	
10,100.00	7,500.00	7,449.36	7,447.36	38.17	25.95	87.68	-388.80	145.95	3,041.14	2,986.85	54.29	56.013	
10,200.00	7,500.00	7,448.48	7,446.47	38.66	25.95	87.64	-388.81	145.97	3,132.22	3,077.92	54.30	57.686	
10,300.00	7,500.00	7,447.60	7,445.59	39.17	25.95	87.60	-388.81	145.99	3,223.82	3,169.52	54.30	59.366	
10,400.00	7,500.00	7,446.72	7,444.72	39.68	25.95	87.56	-388.82	146.00	3,315.92	3,261.60	54.31	61.052	
10,500.00	7,500.00	7,445.85	7,443.84	40.20	25.94	87.52	-388.83	146.02	3,408.45	3,354.13	54.32	62.744	
10,600.00	7,500.00	7,444.98	7,442.97	40.73	25.94	87.48	-388.84	146.04	3,501.40	3,447.06	54.34	64.440	
10,700.00	7,500.00	13,863.13	10,743.42	41.26	60.86	157.74	-3,775.73	106.86	3,505.72	3,432.78	72.94	48.066	
10,770.22	7,500.00	13,908.00	10,742.23	41.64	61.36	157.70	-3,820.53	104.65	3,505.44	3,431.68	73.76	47.525	
10,800.00	7,500.00	13,908.00	10,742.23	41.80	61.36	157.70	-3,820.53	104.65	3,505.57	3,431.61	73.96	47.399	
10,900.00	7,500.00	14,003.00	10,740.20	42.35	62.43	157.57	-3,915.25	97.68	3,506.56	3,431.15	75.41	46.500	
11,000.00	7,500.00	14,107.10	10,738.29	42.91	63.62	157.43	-4,019.01	89.44	3,508.09	3,431.13	76.96	45.586	
11,100.00	7,500.00	14,277.64	10,734.13	43.47	65.59	157.27	-4,189.27	81.38	3,507.73	3,428.70	79.03	44.385	
11,200.00	7,500.00	14,486.56	10,729.62	44.03	68.08	157.30	-4,398.05	86.46	3,504.88	3,423.60	81.27	43.124	
11,300.00	7,500.00	14,557.98	10,728.37	44.61	68.95	157.35	-4,469.34	90.61	3,501.15	3,418.67	82.48	42.449	
11,400.00	7,500.00	14,630.64	10,727.63	45.18	69.84	157.41	-4,541.86	94.88	3,498.14	3,414.44	83.69	41.797	
11,500.00	7,500.00	14,727.00	10,726.37	45.77	71.02	157.45	-4,638.15	98.25	3,495.75	3,410.64	85.11	41.073	
11,581.32	7,500.00	14,787.24	10,724.81	46.24	71.75	157.44	-4,698.37	98.67	3,493.79	3,407.64	86.15	40.553	
11,600.00	7,500.00	14,796.22	10,724.62	46.35	71.86	157.42	-4,707.34	98.65	3,493.54	3,407.19	86.36	40.454	
11,612.39	7,500.00	14,802.17	10,724.50	46.43	71.94	157.41	-4,713.29	98.63	3,493.50	3,407.00	86.50	40.389	
11,650.00	7,500.00	14,820.19	10,724.19	46.65	72.16	157.42	-4,731.32	98.53	3,493.93	3,407.00	86.93	40.192	
11,700.00	7,500.00	14,857.00	10,723.82	46.96	72.61	157.46	-4,768.12	98.11	3,495.91	3,408.27	87.64	39.888	
11,750.00	7,500.00	14,899.54	10,723.45	47.27	73.13	157.54	-4,810.65	97.45	3,499.22	3,410.78	88.44	39.564	
11,800.00	7,500.00	15,014.15	10,721.57	47.59	74.55	157.37	-4,925.20	97.98	3,502.86	3,413.00	89.86	38.980	
11,850.00	7,500.00	15,103.29	10,720.35	47.91	75.67	157.31	-5,014.21	102.22	3,507.11	3,416.04	91.07	38.510	
11,900.00	7,500.00	15,150.63	10,719.69	48.23	76.27	157.44	-5,061.47	104.95	3,512.42	3,420.43	91.99	38.182	
11,950.00	7,500.00	15,196.86	10,718.98	48.56	76.85	157.60	-5,107.62	107.45	3,518.96	3,426.02	92.94	37.862	
12,000.00	7,500.00	15,237.00	10,718.30	48.88	77.36	157.85	-5,147.71	109.48	3,526.75	3,432.87	93.88	37.566	
12,050.00	7,500.00	15,264.04	10,717.92	49.20	77.70	158.26	-5,174.71	110.79	3,535.93	3,441.18	94.75	37.317	
12,100.00	7,500.00	15,293.64	10,717.67	49.52	78.08	158.72	-5,204.28	112.21	3,546.60	3,450.92	95.68	37.069	
12,150.00	7,500.00	15,325.00	10,717.45	49.83	78.48	159.24	-5,235.60	113.71	3,558.57	3,461.93	96.64	36.823	
12,200.00	7,500.00	15,325.00	10,717.45	50.14	78.48	160.16	-5,235.60	113.71	3,572.11	3,474.73	97.37	36.685	
12,250.00	7,500.00	15,325.00	10,717.45	50.44	78.48	161.20	-5,235.60	113.71	3,587.27	3,489.15	98.12	36.561	
12,300.00	7,500.00	15,325.00	10,717.45	50.74	78.48	162.37	-5,235.60	113.71	3,603.98	3,505.10	98.88	36.449	
12,350.00	7,500.00	15,325.00	10,717.45	51.02	78.48	163.67	-5,235.60	113.71	3,622.16	3,522.52	99.65	36.350	
12,400.00	7,500.00	15,325.00	10,717.45	51.30	78.48	165.09	-5,235.60	113.71	3,641.73	3,541.30	100.42	36.263	
12,450.00	7,500.00	15,325.00	10,717.45	51.56	78.48	166.64	-5,235.60	113.71	3,662.58	3,561.37	101.21	36.189	
12,500.00	7,500.00	15,325.00	10,717.45	51.81	78.48	168.30	-5,235.60	113.71	3,684.62	3,582.62	101.99	36.126	
12,550.00	7,500.00	15,325.00	10,717.45	52.05	78.48	170.08	-5,235.60	113.71	3,707.75	3,604.96	102.78	36.074	
12,600.00	7,500.00	15,325.00	10,717.45	52.27	78.48	171.97	-5,235.60	113.71	3,731.86	3,628.29	103.57	36.032	
12,650.00	7,500.00	15,325.00	10,717.45	52.48	78.48	173.96	-5,235.60	113.71	3,756.85	3,652.49	104.35	36.001	
12,700.00	7,500.00	15,325.00	10,717.45	52.67	78.48	176.04	-5,235.60	113.71	3,782.60	3,677.47	105.13	35.979	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,750.00	7,500.00	15,325.00	10,717.45	52.84	78.48	178.20	-5,235.60	113.71	3,809.02	3,703.11	105.91	35.966	
12,800.00	7,500.00	15,325.00	10,717.45	53.00	78.48	-179.57	-5,235.60	113.71	3,835.98	3,729.31	106.67	35.961	
12,850.00	7,500.00	15,325.00	10,717.45	53.14	78.48	-177.29	-5,235.60	113.71	3,863.39	3,755.97	107.42	35.964	
12,900.00	7,500.00	15,325.00	10,717.45	53.27	78.48	-174.98	-5,235.60	113.71	3,891.13	3,782.96	108.16	35.975	
12,950.00	7,500.00	15,325.00	10,717.45	53.37	78.48	-172.65	-5,235.60	113.71	3,919.08	3,810.20	108.89	35.992	
13,000.00	7,500.00	15,325.00	10,717.45	53.46	78.48	-170.32	-5,235.60	113.71	3,947.16	3,837.56	109.60	36.014	
13,050.00	7,500.00	15,325.00	10,717.45	53.53	78.48	-168.00	-5,235.60	113.71	3,975.25	3,864.95	110.29	36.043	
13,100.00	7,500.00	15,325.00	10,717.45	53.58	78.48	-165.72	-5,235.60	113.71	4,003.24	3,892.27	110.97	36.075	
13,150.00	7,500.00	15,325.00	10,717.45	53.62	78.48	-163.48	-5,235.60	113.71	4,031.05	3,919.42	111.62	36.112	
13,200.00	7,500.00	15,325.00	10,717.45	53.63	78.48	-161.29	-5,235.60	113.71	4,058.57	3,946.31	112.26	36.153	
13,250.00	7,500.00	15,325.00	10,717.45	53.63	78.48	-159.18	-5,235.60	113.71	4,085.70	3,972.83	112.87	36.197	
13,300.00	7,500.00	15,325.00	10,717.45	53.62	78.48	-157.15	-5,235.60	113.71	4,112.36	3,998.90	113.47	36.243	
13,350.00	7,500.00	15,325.00	10,717.45	53.58	78.48	-155.20	-5,235.60	113.71	4,138.46	4,024.43	114.04	36.291	
13,400.00	7,500.00	15,325.00	10,717.45	53.54	78.48	-153.35	-5,235.60	113.71	4,163.92	4,049.34	114.58	36.341	
13,450.00	7,500.00	15,325.00	10,717.45	53.48	78.48	-151.60	-5,235.60	113.71	4,188.65	4,073.55	115.10	36.391	
13,500.00	7,500.00	15,325.00	10,717.45	53.40	78.48	-149.94	-5,235.60	113.71	4,212.57	4,096.97	115.60	36.442	
13,550.00	7,500.00	15,325.00	10,717.45	53.32	78.48	-148.39	-5,235.60	113.71	4,235.61	4,119.55	116.06	36.493	
13,600.00	7,500.00	15,325.00	10,717.45	53.22	78.48	-146.95	-5,235.60	113.71	4,257.71	4,141.20	116.51	36.544	
13,650.00	7,500.00	15,325.00	10,717.45	53.12	78.48	-145.60	-5,235.60	113.71	4,278.79	4,161.87	116.93	36.594	
13,700.00	7,500.00	15,313.46	10,717.53	53.00	78.33	-144.28	-5,224.07	113.16	4,298.79	4,181.59	117.19	36.681	
13,750.00	7,500.00	15,280.00	10,717.77	52.88	77.91	-142.95	-5,190.65	111.56	4,317.36	4,200.15	117.20	36.837	
13,800.00	7,500.00	15,252.03	10,718.07	52.75	77.55	-141.79	-5,162.71	110.21	4,334.43	4,217.18	117.25	36.968	
13,850.00	7,500.00	15,221.94	10,718.56	52.61	77.17	-140.77	-5,132.67	108.73	4,349.99	4,232.74	117.25	37.099	
13,900.00	7,500.00	15,181.35	10,719.22	52.48	76.66	-139.83	-5,092.14	106.63	4,363.86	4,246.73	117.13	37.258	
13,950.00	7,500.00	15,139.87	10,719.84	52.33	76.13	-139.03	-5,050.73	104.35	4,375.94	4,258.96	116.97	37.409	
14,000.00	7,500.00	14,857.00	10,723.82	52.19	72.61	-137.89	-4,768.12	98.11	4,385.72	4,271.56	114.16	38.417	
14,050.00	7,500.00	14,857.00	10,723.82	52.05	72.61	-137.58	-4,768.12	98.11	4,391.61	4,277.15	114.45	38.371	
14,100.00	7,500.00	14,812.99	10,724.31	51.90	72.07	-137.33	-4,724.11	98.58	4,395.49	4,281.25	114.23	38.478	
14,105.32	7,500.00	14,810.79	10,724.34	51.89	72.04	-137.31	-4,721.91	98.59	4,395.81	4,281.58	114.24	38.479	
14,200.00	7,500.00	14,762.00	10,725.47	51.63	71.44	-137.22	-4,673.14	98.63	4,401.04	4,286.85	114.19	38.542	
14,300.00	7,500.00	14,709.09	10,726.73	51.35	70.80	-137.15	-4,620.25	97.88	4,405.31	4,291.20	114.11	38.607	
14,333.98	7,500.00	14,685.70	10,727.09	51.26	70.51	-137.13	-4,596.87	97.21	4,406.39	4,292.37	114.02	38.646	
14,400.00	7,500.00	14,667.00	10,727.30	51.09	70.28	-137.13	-4,578.19	96.52	4,408.58	4,294.46	114.13	38.628	
14,500.00	7,500.00	14,572.00	10,728.21	50.84	69.12	-137.09	-4,483.33	91.51	4,412.58	4,298.97	113.62	38.838	
14,600.00	7,500.00	14,511.08	10,729.11	50.59	68.38	-137.07	-4,422.53	87.80	4,417.36	4,303.91	113.45	38.935	
14,700.00	7,500.00	14,003.00	10,740.20	50.35	62.43	-137.28	-3,915.25	97.68	4,415.75	4,307.07	108.69	40.629	
14,800.00	7,500.00	13,942.40	10,741.35	50.12	61.75	-137.34	-3,854.84	102.39	4,411.72	4,303.11	108.61	40.620	
14,900.00	7,500.00	13,908.00	10,742.23	49.90	61.36	-137.37	-3,820.53	104.65	4,409.02	4,300.22	108.81	40.521	
15,000.00	7,500.00	13,856.42	10,743.59	49.69	60.78	-137.41	-3,769.03	107.10	4,407.57	4,298.75	108.83	40.500	
15,037.53	7,500.00	13,840.75	10,743.96	49.61	60.61	-137.41	-3,753.37	107.55	4,407.38	4,298.51	108.87	40.482	
15,100.00	7,500.00	13,813.00	10,744.57	49.48	60.30	-137.42	-3,725.63	108.02	4,407.47	4,298.55	108.93	40.462	
15,200.00	7,500.00	7,417.10	7,415.10	49.28	25.85	-88.36	-389.10	146.57	4,348.42	4,289.58	58.84	73.903	
15,300.00	7,500.00	7,417.99	7,415.99	49.09	25.85	-88.38	-389.09	146.55	4,275.05	4,216.02	59.03	72.423	
15,400.00	7,500.00	7,418.87	7,416.88	48.91	25.85	-88.39	-389.08	146.53	4,202.79	4,143.55	59.24	70.949	
15,500.00	7,500.00	7,419.76	7,417.77	48.74	25.86	-88.41	-389.07	146.52	4,131.68	4,072.21	59.46	69.484	
15,600.00	7,500.00	7,420.66	7,418.66	48.57	25.86	-88.43	-389.06	146.50	4,061.78	4,002.08	59.71	68.028	
15,700.00	7,500.00	7,422.00	7,420.00	48.42	25.86	-88.45	-389.05	146.47	3,993.17	3,933.20	59.98	66.579	
15,800.00	7,500.00	7,422.00	7,420.00	48.27	25.86	-88.45	-389.05	146.47	3,925.91	3,865.66	60.25	65.157	
15,900.00	7,500.00	7,422.00	7,420.00	48.13	25.86	-88.45	-389.05	146.47	3,860.06	3,799.51	60.55	63.748	
16,000.00	7,500.00	7,422.00	7,420.00	48.01	25.86	-88.45	-389.05	146.47	3,795.71	3,734.84	60.87	62.356	
16,100.00	7,500.00	7,422.00	7,420.00	47.89	25.86	-88.45	-389.05	146.47	3,732.93	3,671.72	61.21	60.983	
16,200.00	7,500.00	7,422.00	7,420.00	47.78	25.86	-88.45	-389.05	146.47	3,671.80	3,610.22	61.58	59.630	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM, 10829-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,300.00	7,500.00	7,426.43	7,424.43	47.68	25.88	-88.54	-389.01	146.39	3,612.40	3,550.39	62.01	58.258	
16,400.00	7,500.00	7,427.24	7,425.24	47.59	25.88	-88.56	-389.00	146.38	3,554.82	3,492.40	62.42	56.946	
16,500.00	7,500.00	7,428.06	7,426.06	47.51	25.88	-88.57	-389.00	146.36	3,499.15	3,436.29	62.86	55.662	
16,600.00	7,500.00	7,428.88	7,426.88	47.44	25.89	-88.59	-388.99	146.35	3,445.49	3,382.16	63.33	54.409	
16,700.00	7,500.00	7,429.70	7,427.70	47.39	25.89	-88.61	-388.98	146.33	3,393.92	3,330.12	63.81	53.190	
16,800.00	7,500.00	7,430.53	7,428.53	47.34	25.89	-88.62	-388.97	146.31	3,344.55	3,280.25	64.31	52.007	
16,900.00	7,500.00	7,431.36	7,429.36	47.31	25.89	-88.64	-388.97	146.30	3,297.48	3,232.65	64.83	50.863	
17,000.00	7,500.00	7,432.19	7,430.19	47.29	25.90	-88.65	-388.96	146.28	3,252.80	3,187.43	65.37	49.760	
17,100.00	7,500.00	7,433.02	7,431.02	47.28	25.90	-88.67	-388.95	146.27	3,210.61	3,144.68	65.92	48.702	
17,200.00	7,500.00	7,433.86	7,431.86	47.28	25.90	-88.69	-388.94	146.25	3,171.01	3,104.52	66.49	47.692	
17,300.00	7,500.00	7,434.70	7,432.69	47.30	25.91	-88.70	-388.94	146.23	3,134.11	3,067.04	67.07	46.731	
17,400.00	7,500.00	7,435.54	7,433.54	47.33	25.91	-88.72	-388.93	146.22	3,099.99	3,032.34	67.65	45.822	
17,500.00	7,500.00	7,436.38	7,434.38	47.37	25.91	-88.74	-388.92	146.20	3,068.75	3,000.51	68.24	44.967	
17,600.00	7,500.00	7,437.23	7,435.23	47.43	25.91	-88.75	-388.91	146.19	3,040.49	2,971.65	68.84	44.170	
17,700.00	7,500.00	7,438.08	7,436.08	47.50	25.92	-88.77	-388.90	146.17	3,015.27	2,945.85	69.43	43.431	
17,800.00	7,500.00	7,438.94	7,436.93	47.59	25.92	-88.79	-388.90	146.15	2,993.19	2,923.18	70.01	42.752	
17,900.00	7,500.00	7,439.79	7,437.79	47.69	25.92	-88.80	-388.89	146.14	2,974.30	2,903.71	70.59	42.135	
18,000.00	7,500.00	7,440.65	7,438.65	47.81	25.93	-88.82	-388.88	146.12	2,958.68	2,887.53	71.15	41.582	
18,100.00	7,500.00	7,441.51	7,439.51	47.94	25.93	-88.84	-388.87	146.10	2,946.37	2,874.67	71.70	41.092	
18,200.00	7,500.00	7,442.38	7,440.38	48.08	25.93	-88.85	-388.86	146.09	2,937.41	2,865.18	72.23	40.668	
18,300.00	7,500.00	7,443.25	7,441.25	48.25	25.93	-88.87	-388.86	146.07	2,931.84	2,859.10	72.74	40.308	
18,400.00	7,500.00	7,444.12	7,442.12	48.42	25.94	-88.89	-388.85	146.05	2,929.67	2,856.46	73.21	40.015	
18,413.53	7,500.00	7,444.24	7,442.24	48.45	25.94	-88.89	-388.85	146.05	2,929.64	2,856.36	73.28	39.980	
18,461.64	7,500.00	7,444.66	7,442.66	48.54	25.94	-88.90	-388.84	146.04	2,930.04	2,856.54	73.50	39.867	
18,462.14	7,500.00	7,444.66	7,442.66	49.47	25.94	-88.90	-388.84	146.04	2,930.04	2,856.57	73.47	39.879	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.71	89.28	57.35	4,576.74	4,577.37				
100.00	100.00	53.91	53.91	0.28	0.71	89.28	57.32	4,576.72	4,577.08	4,576.09	0.99	4,636.648	
200.00	200.00	184.23	184.23	0.63	0.83	89.28	57.22	4,576.03	4,576.52	4,575.05	1.46	3,124.088	
300.00	300.00	343.01	342.98	0.99	1.22	89.28	57.76	4,573.34	4,574.65	4,572.44	2.21	2,067.763	
400.00	400.00	442.61	442.56	1.35	1.53	89.27	58.34	4,571.32	4,572.63	4,569.76	2.87	1,593.876	
500.00	500.00	528.12	528.05	1.71	1.80	89.27	58.60	4,569.62	4,570.67	4,567.17	3.50	1,306.688	
600.00	599.98	600.00	599.92	2.06	2.03	-15.08	59.19	4,568.69	4,567.66	4,563.58	4.08	1,119.404	
700.00	699.84	666.34	666.25	2.40	2.25	-15.14	60.08	4,568.27	4,561.95	4,557.31	4.64	982.157	
750.00	749.68	704.55	704.46	2.58	2.37	-15.17	60.69	4,568.18	4,558.06	4,553.11	4.95	921.152	
800.00	799.49	757.79	757.69	2.75	2.55	-15.20	61.66	4,568.09	4,553.78	4,548.48	5.30	858.942	
900.00	899.11	866.46	866.33	3.10	2.92	-15.26	63.91	4,567.76	4,545.10	4,539.08	6.02	755.104	
1,000.00	998.73	990.00	989.84	3.46	3.34	-15.33	66.89	4,566.96	4,536.09	4,529.30	6.79	667.575	
1,001.27	1,000.00	991.64	991.48	3.46	3.35	-15.34	66.94	4,566.95	4,535.98	4,529.17	6.81	666.562	
1,100.00	1,098.18	1,139.04	1,138.80	3.81	3.86	-17.53	71.21	4,564.71	4,524.66	4,517.00	7.67	590.201	
1,200.00	1,197.22	1,262.65	1,262.35	4.18	4.28	-18.88	73.17	4,561.78	4,509.17	4,500.72	8.45	533.441	
1,300.00	1,295.71	1,372.05	1,371.72	4.54	4.66	-19.83	73.14	4,558.84	4,490.19	4,481.00	9.19	488.449	
1,400.00	1,393.53	1,487.77	1,487.38	4.91	5.06	-20.60	72.19	4,555.40	4,467.78	4,457.82	9.96	448.702	
1,414.82	1,407.97	1,505.24	1,504.85	4.97	5.12	-20.70	71.98	4,554.84	4,464.15	4,454.08	10.08	443.084	
1,500.00	1,490.88	1,589.55	1,589.10	5.28	5.41	-20.78	70.86	4,552.08	4,443.09	4,432.42	10.67	416.233	
1,600.00	1,588.22	1,701.48	1,700.94	5.66	5.81	-20.88	69.11	4,548.20	4,418.19	4,406.77	11.42	386.720	
1,700.00	1,685.56	1,773.56	1,772.98	6.04	6.06	-20.94	67.83	4,545.79	4,393.40	4,381.35	12.04	364.774	
1,800.00	1,782.90	1,838.70	1,838.07	6.42	6.29	-21.00	66.55	4,543.99	4,369.19	4,356.55	12.64	345.569	
1,900.00	1,880.24	1,900.00	1,899.35	6.80	6.50	-21.05	65.30	4,542.80	4,345.78	4,332.55	13.23	328.409	
2,000.00	1,977.58	1,960.29	1,959.63	7.18	6.71	-21.10	64.07	4,542.14	4,323.19	4,309.36	13.82	312.808	
2,100.00	2,074.91	2,026.74	2,026.06	7.57	6.94	-21.16	62.79	4,541.97	4,301.40	4,286.97	14.43	298.072	
2,200.00	2,172.25	2,100.00	2,099.31	7.95	7.19	-21.23	61.48	4,542.16	4,280.17	4,265.11	15.06	284.114	
2,300.00	2,269.59	2,160.50	2,159.80	8.34	7.40	-21.28	60.42	4,542.75	4,259.66	4,244.00	15.66	272.048	
2,400.00	2,366.93	2,200.00	2,199.29	8.73	7.53	-21.31	59.70	4,543.45	4,240.14	4,223.96	16.18	262.034	
2,500.00	2,464.27	2,275.61	2,274.86	9.11	7.79	-21.38	58.33	4,545.53	4,221.43	4,204.61	16.83	250.877	
2,600.00	2,561.61	2,336.91	2,336.10	9.50	8.01	-21.44	57.23	4,547.88	4,203.72	4,186.30	17.42	241.248	
2,700.00	2,658.95	2,403.62	2,402.72	9.89	8.24	-21.49	55.67	4,551.02	4,186.83	4,168.79	18.04	232.056	
2,800.00	2,756.29	2,625.23	2,624.13	10.28	9.02	-21.68	51.13	4,558.78	4,168.76	4,149.58	19.18	217.387	
2,900.00	2,853.63	2,739.71	2,738.59	10.67	9.42	-21.80	49.65	4,560.79	4,149.05	4,129.10	19.95	207.937	
3,000.00	2,950.97	2,836.09	2,834.95	11.06	9.75	-21.90	48.69	4,562.35	4,129.25	4,108.58	20.67	199.753	
3,100.00	3,048.31	2,938.40	2,937.24	11.45	10.11	-22.01	47.70	4,564.04	4,109.50	4,088.09	21.41	191.944	
3,200.00	3,145.64	3,055.90	3,054.73	11.84	10.52	-22.14	46.69	4,565.55	4,089.41	4,067.21	22.20	184.237	
3,300.00	3,242.98	3,159.58	3,158.40	12.23	10.88	-22.26	46.01	4,566.48	4,068.95	4,046.01	22.94	177.379	
3,400.00	3,340.32	3,255.26	3,254.07	12.62	11.21	-22.37	45.42	4,567.36	4,048.53	4,024.87	23.66	171.131	
3,500.00	3,437.66	3,359.53	3,358.34	13.01	11.57	-22.48	44.43	4,568.30	4,028.11	4,003.71	24.40	165.066	
3,600.00	3,535.00	3,478.55	3,477.34	13.40	11.98	-22.61	42.97	4,568.97	4,007.35	3,982.16	25.19	159.061	
3,700.00	3,632.34	3,582.08	3,580.87	13.79	12.35	-22.73	41.90	4,569.11	3,986.19	3,960.26	25.94	153.688	
3,800.00	3,729.68	3,679.34	3,678.13	14.19	12.68	-22.85	40.99	4,569.20	3,965.02	3,938.36	26.66	148.718	
3,900.00	3,827.02	3,784.09	3,782.87	14.58	13.05	-22.97	39.98	4,569.22	3,943.79	3,916.38	27.41	143.890	
4,000.00	3,924.36	3,883.52	3,882.29	14.97	13.40	-23.09	38.97	4,569.10	3,922.43	3,894.29	28.14	139.392	
4,100.00	4,021.70	3,988.01	3,986.78	15.36	13.76	-23.21	37.98	4,568.87	3,901.00	3,872.12	28.89	135.049	
4,200.00	4,119.04	4,089.90	4,088.66	15.75	14.11	-23.34	37.08	4,568.47	3,879.42	3,849.80	29.62	130.953	
4,300.00	4,216.37	4,193.68	4,192.44	16.15	14.48	-23.47	36.15	4,567.93	3,857.73	3,827.36	30.37	127.030	
4,400.00	4,313.71	4,299.75	4,298.50	16.54	14.85	-23.61	35.21	4,567.16	3,835.86	3,804.74	31.12	123.263	
4,500.00	4,411.05	4,395.44	4,394.19	16.93	15.18	-23.73	34.21	4,566.38	3,813.91	3,782.07	31.84	119.781	
4,600.00	4,508.39	4,494.25	4,492.98	17.32	15.53	-23.85	32.90	4,565.60	3,791.98	3,759.41	32.57	116.422	
4,700.00	4,605.73	4,592.94	4,591.66	17.72	15.87	-23.97	31.43	4,564.79	3,770.02	3,736.72	33.30	113.210	
4,800.00	4,703.07	4,687.28	4,685.98	18.11	16.20	-24.08	29.94	4,564.04	3,748.10	3,714.08	34.02	110.174	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Offset Well Error: 0.50 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	4,777.46	4,776.14	18.50	16.51	-24.19	28.33	4,563.46	3,726.32	3,691.59	34.73	107.302	
5,000.00	4,897.75	4,874.96	4,873.62	18.90	16.86	-24.30	26.19	4,562.99	3,704.68	3,669.22	35.46	104.489	
5,100.00	4,995.09	4,971.74	4,970.37	19.29	17.19	-24.41	23.82	4,562.51	3,683.02	3,646.84	36.18	101.793	
5,200.00	5,092.43	5,068.10	5,066.70	19.68	17.53	-24.52	21.39	4,562.08	3,661.41	3,624.50	36.91	99.207	
5,300.00	5,189.77	5,160.07	5,158.64	20.07	17.85	-24.63	19.06	4,561.72	3,639.87	3,602.25	37.62	96.752	
5,400.00	5,287.10	5,254.77	5,253.32	20.47	18.18	-24.74	17.04	4,561.48	3,618.51	3,580.17	38.34	94.375	
5,500.00	5,384.44	5,352.65	5,351.18	20.86	18.53	-24.86	14.94	4,561.23	3,597.16	3,558.09	39.07	92.066	
5,600.00	5,481.78	5,456.57	5,455.07	21.25	18.89	-24.99	12.72	4,560.91	3,575.78	3,535.96	39.82	89.805	
5,700.00	5,579.12	5,554.28	5,552.76	21.65	19.23	-25.11	10.54	4,560.41	3,554.20	3,513.66	40.55	87.657	
5,800.00	5,676.46	5,649.86	5,648.31	22.04	19.56	-25.23	8.30	4,560.06	3,532.78	3,491.51	41.27	85.600	
5,900.00	5,773.80	5,748.31	5,746.73	22.43	19.91	-25.35	5.98	4,559.65	3,511.31	3,469.31	42.00	83.598	
6,000.00	5,871.14	5,836.63	5,835.03	22.83	20.22	-25.46	3.99	4,559.34	3,489.94	3,447.23	42.71	81.714	
6,100.00	5,968.48	5,920.68	5,919.07	23.22	20.51	-25.58	2.48	4,559.37	3,469.00	3,425.59	43.41	79.921	
6,200.00	6,065.82	6,018.91	6,017.28	23.61	20.86	-25.71	0.78	4,559.52	3,448.21	3,404.07	44.14	78.125	
6,300.00	6,163.16	6,115.73	6,114.08	24.01	21.19	-25.85	-0.81	4,559.67	3,427.44	3,382.57	44.87	76.393	
6,400.00	6,260.50	6,212.50	6,210.84	24.40	21.53	-25.99	-2.33	4,559.83	3,406.70	3,361.11	45.59	74.718	
6,500.00	6,357.83	6,309.89	6,308.22	24.79	21.87	-26.13	-3.86	4,559.99	3,386.00	3,339.68	46.32	73.094	
6,600.00	6,455.17	6,408.72	6,407.04	25.19	22.22	-26.28	-5.44	4,560.19	3,365.34	3,318.28	47.06	71.515	
6,700.00	6,552.51	6,548.72	6,547.03	25.58	22.71	-26.51	-6.47	4,559.33	3,344.02	3,296.14	47.89	69.833	
6,800.00	6,649.85	6,770.38	6,768.53	25.98	23.48	-26.96	-5.21	4,551.55	3,319.84	3,270.98	48.86	67.944	
6,900.00	6,747.19	6,841.04	6,839.08	26.37	23.73	-27.12	-3.97	4,547.89	3,294.56	3,245.02	49.54	66.501	
7,000.00	6,844.53	6,900.00	6,897.98	26.76	23.94	-27.25	-3.02	4,545.58	3,270.45	3,220.25	50.20	65.150	
7,100.00	6,941.87	8,804.96	8,275.10	27.16	30.13	-15.07	-737.10	4,236.16	3,233.65	3,183.11	50.54	63.984	
7,115.01	6,956.48	8,805.30	8,275.12	27.22	30.13	-15.06	-737.43	4,236.12	3,224.39	3,173.72	50.67	63.633	
7,150.00	6,990.45	8,806.32	8,275.18	27.35	30.14	-30.91	-738.44	4,236.00	3,202.99	3,152.01	50.98	62.823	
7,200.00	7,038.53	8,808.58	8,275.29	27.55	30.16	-48.85	-740.68	4,235.73	3,172.98	3,121.55	51.43	61.691	
7,250.00	7,085.72	8,824.00	8,275.91	27.75	30.26	-61.75	-756.00	4,234.10	3,143.97	3,092.01	51.96	60.506	
7,300.00	7,131.67	8,824.00	8,275.91	27.94	30.26	-71.68	-756.00	4,234.10	3,115.92	3,063.54	52.38	59.489	
7,350.00	7,176.02	8,824.00	8,275.91	28.13	30.26	-79.38	-756.00	4,234.10	3,089.24	3,036.46	52.78	58.531	
7,400.00	7,218.44	8,831.73	8,276.13	28.32	30.32	-85.39	-763.70	4,233.40	3,064.16	3,010.94	53.22	57.580	
7,450.00	7,258.60	8,945.49	8,276.57	28.50	31.16	-88.60	-876.96	4,222.93	3,040.73	2,986.31	54.42	55.880	
7,500.00	7,296.21	9,030.00	8,274.98	28.67	31.85	-91.64	-960.94	4,213.59	3,017.95	2,962.50	55.45	54.425	
7,550.00	7,330.97	9,078.75	8,275.54	28.84	32.27	-94.70	-1,009.23	4,207.02	2,996.39	2,940.22	56.18	53.339	
7,600.00	7,362.62	9,115.46	8,276.80	28.99	32.60	-97.45	-1,045.54	4,201.72	2,976.51	2,919.73	56.78	52.423	
7,650.00	7,390.91	9,155.51	8,278.76	29.15	32.97	-99.76	-1,085.10	4,195.76	2,958.44	2,901.05	57.38	51.554	
7,700.00	7,415.64	9,197.00	8,280.91	29.30	33.36	-101.70	-1,126.06	4,189.56	2,942.24	2,884.26	57.98	50.746	
7,750.00	7,436.62	9,223.95	8,282.24	29.44	33.62	-103.41	-1,152.70	4,185.66	2,928.13	2,869.71	58.42	50.118	
7,800.00	7,453.68	9,260.00	8,283.77	29.57	33.97	-104.74	-1,188.38	4,180.80	2,916.35	2,857.42	58.92	49.493	
7,825.96	7,460.95	9,260.00	8,283.77	29.64	33.97	-105.38	-1,188.38	4,180.80	2,911.14	2,852.14	59.00	49.344	
7,900.00	7,477.79	9,324.00	8,285.89	29.84	34.60	-105.82	-1,251.87	4,172.95	2,898.09	2,838.30	59.80	48.466	
8,000.00	7,493.08	9,395.86	8,287.82	30.11	35.34	-106.42	-1,323.25	4,164.85	2,883.28	2,822.57	60.72	47.489	
8,100.00	7,499.70	9,473.92	8,289.74	30.38	36.16	-106.97	-1,400.84	4,156.62	2,871.59	2,809.93	61.66	46.571	
8,125.95	7,499.99	9,491.86	8,290.12	30.45	36.35	-107.10	-1,418.69	4,154.86	2,869.11	2,807.23	61.87	46.369	
8,200.00	7,499.99	9,642.49	8,293.79	30.65	38.02	-107.27	-1,568.40	4,138.71	2,862.07	2,798.52	63.55	45.035	
8,300.00	7,499.99	9,741.37	8,296.77	30.94	39.17	-107.41	-1,666.37	4,125.75	2,850.00	2,785.23	64.77	44.003	
8,400.00	7,499.99	9,818.76	8,298.82	31.24	40.09	-107.51	-1,743.17	4,116.36	2,838.74	2,772.95	65.79	43.146	
8,500.00	7,499.99	9,914.20	8,300.63	31.56	41.25	-107.61	-1,837.96	4,105.39	2,827.90	2,760.83	67.07	42.164	
8,600.00	7,500.00	10,012.25	8,301.41	31.88	42.46	-107.70	-1,935.39	4,094.40	2,817.02	2,748.60	68.42	41.170	
8,700.00	7,500.00	10,107.00	8,301.13	32.22	43.66	-107.76	-2,029.60	4,084.35	2,806.38	2,736.59	69.79	40.210	
8,800.00	7,500.00	10,313.63	8,300.30	32.58	46.35	-107.91	-2,234.59	4,058.60	2,794.04	2,721.50	72.54	38.518	
8,900.00	7,500.00	10,421.67	8,300.33	32.94	47.80	-108.02	-2,341.39	4,042.32	2,779.25	2,705.10	74.14	37.486	
9,000.00	7,500.00	10,469.00	8,300.91	33.32	48.44	-108.08	-2,388.20	4,035.34	2,765.30	2,690.26	75.04	36.849	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Offset Well Error: 0.50 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	7,500.00	10,532.00	8,302.95	33.71	49.30	-108.18	-2,450.56	4,026.63	2,752.85	2,676.70	76.15	36.151	
9,200.00	7,500.00	10,577.82	8,304.67	34.11	49.92	-108.25	-2,496.02	4,021.14	2,742.22	2,665.15	77.07	35.581	
9,300.00	7,500.00	10,623.94	8,305.85	34.52	50.55	-108.30	-2,541.92	4,016.78	2,733.60	2,655.58	78.02	35.039	
9,400.00	7,500.00	10,678.68	8,305.87	34.94	51.30	-108.33	-2,596.53	4,013.19	2,726.85	2,647.75	79.10	34.474	
9,500.00	7,500.00	10,764.54	8,304.01	35.37	52.48	-108.32	-2,682.28	4,009.09	2,721.19	2,640.57	80.63	33.751	
9,600.00	7,500.00	10,960.05	8,302.56	35.81	55.21	-108.39	-2,877.22	3,995.08	2,713.51	2,629.93	83.59	32.464	
9,700.00	7,500.00	11,046.11	8,302.82	36.26	56.43	-108.45	-2,962.93	3,987.42	2,704.73	2,619.58	85.15	31.765	
9,800.00	7,500.00	11,236.36	8,301.90	36.73	59.17	-108.57	-3,152.19	3,968.21	2,694.59	2,606.54	88.05	30.604	
9,900.00	7,500.00	11,331.66	8,301.93	37.20	60.56	-108.65	-3,246.80	3,956.77	2,682.79	2,593.02	89.77	29.886	
10,000.00	7,500.00	11,454.67	8,301.13	37.68	62.37	-108.74	-3,368.88	3,941.70	2,670.51	2,578.66	91.85	29.074	
10,100.00	7,500.00	11,638.21	8,300.55	38.17	65.09	-108.92	-3,550.49	3,915.31	2,656.35	2,561.71	94.64	28.067	
10,200.00	7,500.00	11,701.02	8,301.64	38.66	66.03	-109.02	-3,612.45	3,905.07	2,641.13	2,545.11	96.02	27.505	
10,300.00	7,500.00	11,742.00	8,303.31	39.17	66.64	-109.10	-3,652.92	3,898.88	2,627.80	2,530.65	97.15	27.050	
10,400.00	7,500.00	11,778.24	8,305.08	39.68	67.19	-109.17	-3,688.81	3,894.19	2,616.77	2,518.56	98.21	26.646	
10,500.00	7,500.00	11,819.75	8,306.88	40.20	67.81	-109.24	-3,730.07	3,890.07	2,608.22	2,508.89	99.32	26.260	
10,600.00	7,500.00	11,903.08	8,308.38	40.73	69.05	-109.32	-3,813.14	3,883.65	2,601.08	2,500.08	100.99	25.755	
10,700.00	7,500.00	11,988.79	8,308.15	41.26	70.33	-109.36	-3,898.66	3,878.00	2,594.35	2,491.62	102.73	25.254	
10,800.00	7,500.00	12,117.04	8,306.39	41.80	72.25	-109.38	-4,026.69	3,870.65	2,588.24	2,483.17	105.07	24.634	
10,900.00	7,500.00	12,315.55	8,298.95	42.35	75.25	-109.35	-4,224.37	3,854.35	2,578.78	2,470.44	108.34	23.803	
11,000.00	7,500.00	12,391.56	8,299.20	42.91	76.41	-109.42	-4,299.89	3,845.86	2,567.92	2,457.93	109.99	23.346	
11,100.00	7,500.00	12,476.32	8,301.69	43.47	77.71	-109.55	-4,384.10	3,836.54	2,558.05	2,446.31	111.74	22.894	
11,200.00	7,500.00	12,602.74	8,303.31	44.03	79.65	-109.69	-4,509.75	3,822.74	2,547.76	2,433.76	114.00	22.348	
11,300.00	7,500.00	12,680.53	8,303.61	44.61	80.85	-109.76	-4,587.06	3,814.12	2,537.10	2,421.39	115.71	21.927	
11,400.00	7,500.00	12,758.00	8,304.77	45.18	82.04	-109.85	-4,664.10	3,806.01	2,527.36	2,409.96	117.41	21.527	
11,500.00	7,500.00	12,821.00	8,305.54	45.77	83.01	-109.92	-4,726.84	3,800.41	2,518.97	2,400.04	118.93	21.180	
11,581.32	7,500.00	12,893.41	8,305.78	46.24	84.13	-109.96	-4,799.06	3,795.18	2,513.16	2,392.70	120.45	20.864	
11,600.00	7,500.00	12,916.38	8,305.60	46.35	84.48	-110.01	-4,821.96	3,793.54	2,511.57	2,390.68	120.89	20.776	
11,650.00	7,500.00	12,963.62	8,304.95	46.65	85.21	-110.20	-4,869.08	3,790.17	2,505.29	2,383.43	121.86	20.559	
11,700.00	7,500.00	12,995.66	8,304.86	46.96	85.70	-110.46	-4,901.04	3,787.93	2,496.47	2,373.86	122.61	20.360	
11,750.00	7,500.00	13,031.84	8,305.27	47.27	86.26	-110.83	-4,937.14	3,785.48	2,485.18	2,361.78	123.40	20.139	
11,800.00	7,500.00	13,075.00	8,305.95	47.59	86.93	-111.32	-4,980.20	3,782.64	2,471.33	2,347.08	124.26	19.889	
11,850.00	7,500.00	13,149.63	8,306.57	47.91	88.09	-112.03	-5,054.65	3,777.46	2,454.52	2,329.01	125.51	19.557	
11,900.00	7,500.00	13,189.11	8,306.40	48.23	88.70	-112.75	-5,094.03	3,774.74	2,434.94	2,308.65	126.29	19.281	
11,950.00	7,500.00	13,231.15	8,305.91	48.56	89.35	-113.62	-5,135.99	3,772.04	2,412.92	2,285.84	127.08	18.988	
12,000.00	7,500.00	13,273.76	8,305.13	48.88	90.01	-114.64	-5,178.51	3,769.42	2,388.49	2,260.63	127.86	18.681	
12,050.00	7,500.00	13,305.00	8,304.53	49.20	90.49	-115.77	-5,209.68	3,767.51	2,361.74	2,233.28	128.46	18.386	
12,100.00	7,500.00	13,305.00	8,304.53	49.52	90.49	-116.84	-5,209.68	3,767.51	2,333.25	2,204.64	128.61	18.143	
12,150.00	7,500.00	13,305.00	8,304.53	49.83	90.49	-118.04	-5,209.68	3,767.51	2,303.27	2,174.56	128.71	17.896	
12,200.00	7,500.00	13,305.00	8,304.53	50.14	90.49	-119.39	-5,209.68	3,767.51	2,271.85	2,143.09	128.76	17.645	
12,250.00	7,500.00	13,305.00	8,304.53	50.44	90.49	-120.91	-5,209.68	3,767.51	2,239.05	2,110.30	128.76	17.390	
12,300.00	7,500.00	13,305.00	8,304.53	50.74	90.49	-122.61	-5,209.68	3,767.51	2,204.94	2,076.23	128.71	17.131	
12,350.00	7,500.00	13,305.00	8,304.53	51.02	90.49	-124.54	-5,209.68	3,767.51	2,169.58	2,040.97	128.62	16.869	
12,400.00	7,500.00	13,305.00	8,304.53	51.30	90.49	-126.70	-5,209.68	3,767.51	2,133.04	2,004.57	128.48	16.603	
12,450.00	7,500.00	13,305.00	8,304.53	51.56	90.49	-129.15	-5,209.68	3,767.51	2,095.40	1,967.11	128.29	16.333	
12,500.00	7,500.00	13,305.00	8,304.53	51.81	90.49	-131.90	-5,209.68	3,767.51	2,056.74	1,928.68	128.06	16.061	
12,550.00	7,500.00	13,305.00	8,304.53	52.05	90.49	-135.00	-5,209.68	3,767.51	2,017.14	1,889.36	127.78	15.786	
12,600.00	7,500.00	13,305.00	8,304.53	52.27	90.49	-138.48	-5,209.68	3,767.51	1,976.70	1,849.24	127.47	15.508	
12,650.00	7,500.00	13,305.00	8,304.53	52.48	90.49	-142.36	-5,209.68	3,767.51	1,935.53	1,808.42	127.11	15.227	
12,700.00	7,500.00	13,305.00	8,304.53	52.67	90.49	-146.68	-5,209.68	3,767.51	1,893.72	1,767.01	126.71	14.945	
12,750.00	7,500.00	13,305.00	8,304.53	52.84	90.49	-151.41	-5,209.68	3,767.51	1,851.40	1,725.12	126.28	14.661	
12,800.00	7,500.00	13,305.00	8,304.53	53.00	90.49	-156.54	-5,209.68	3,767.51	1,808.70	1,682.88	125.82	14.376	
12,850.00	7,500.00	13,305.00	8,304.53	53.14	90.49	-161.99	-5,209.68	3,767.51	1,765.73	1,640.42	125.32	14.090	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,900.00	7,500.00	13,305.00	8,304.53	53.27	90.49	-167.68	-5,209.68	3,767.51	1,722.66	1,597.88	124.78	13.805	
12,950.00	7,500.00	13,305.00	8,304.53	53.37	90.49	-173.47	-5,209.68	3,767.51	1,679.64	1,555.41	124.22	13.521	
13,000.00	7,500.00	13,305.00	8,304.53	53.46	90.49	-179.21	-5,209.68	3,767.51	1,636.83	1,513.19	123.64	13.239	
13,050.00	7,500.00	13,305.00	8,304.53	53.53	90.49	175.23	-5,209.68	3,767.51	1,594.41	1,471.39	123.02	12.960	
13,100.00	7,500.00	13,305.00	8,304.53	53.58	90.49	169.97	-5,209.68	3,767.51	1,552.59	1,430.20	122.38	12.686	
13,150.00	7,500.00	13,305.00	8,304.53	53.62	90.49	165.10	-5,209.68	3,767.51	1,511.56	1,389.84	121.72	12.418	
13,200.00	7,500.00	13,305.00	8,304.53	53.63	90.49	160.67	-5,209.68	3,767.51	1,471.56	1,350.53	121.04	12.158	
13,250.00	7,500.00	13,305.00	8,304.53	53.63	90.49	156.70	-5,209.68	3,767.51	1,432.82	1,312.50	120.33	11.908	
13,300.00	7,500.00	13,305.00	8,304.53	53.62	90.49	153.19	-5,209.68	3,767.51	1,395.60	1,276.01	119.59	11.670	
13,350.00	7,500.00	13,305.00	8,304.53	53.58	90.49	150.11	-5,209.68	3,767.51	1,360.16	1,241.33	118.83	11.446	
13,400.00	7,500.00	13,305.00	8,304.53	53.54	90.49	147.45	-5,209.68	3,767.51	1,326.78	1,208.74	118.04	11.240	
13,450.00	7,500.00	13,305.00	8,304.53	53.48	90.49	145.16	-5,209.68	3,767.51	1,295.75	1,178.53	117.22	11.054	
13,500.00	7,500.00	13,305.00	8,304.53	53.40	90.49	143.21	-5,209.68	3,767.51	1,267.36	1,150.99	116.37	10.891	
13,550.00	7,500.00	13,305.00	8,304.53	53.32	90.49	141.58	-5,209.68	3,767.51	1,241.89	1,126.41	115.48	10.754	
13,600.00	7,500.00	13,305.00	8,304.53	53.22	90.49	140.24	-5,209.68	3,767.51	1,219.63	1,105.08	114.55	10.647	
13,650.00	7,500.00	13,268.96	8,305.23	53.12	89.94	139.94	-5,173.71	3,769.71	1,200.30	1,086.81	113.49	10.577	
13,700.00	7,500.00	13,223.26	8,306.02	53.00	89.23	139.90	-5,128.11	3,772.54	1,183.08	1,070.63	112.45	10.521	
13,750.00	7,500.00	13,175.35	8,306.50	52.88	88.48	139.92	-5,080.31	3,775.66	1,167.85	1,056.36	111.48	10.476	
13,800.00	7,500.00	13,121.93	8,306.49	52.75	87.66	140.00	-5,027.02	3,779.46	1,154.56	1,043.98	110.58	10.441	
13,850.00	7,500.00	13,061.65	8,305.72	52.61	86.72	140.14	-4,966.88	3,783.51	1,142.71	1,032.97	109.74	10.413	
13,900.00	7,500.00	13,018.51	8,305.09	52.48	86.06	140.07	-4,923.84	3,786.37	1,132.81	1,023.78	109.04	10.389	
13,950.00	7,500.00	12,983.02	8,304.84	52.33	85.51	139.97	-4,888.44	3,788.81	1,125.27	1,016.84	108.42	10.378	SF
14,000.00	7,500.00	12,949.49	8,305.13	52.19	84.99	139.93	-4,854.99	3,791.17	1,120.35	1,012.48	107.87	10.386	
14,050.00	7,500.00	12,888.13	8,305.81	52.05	84.05	140.04	-4,793.79	3,795.56	1,117.51	1,010.19	107.32	10.413	
14,100.00	7,500.00	12,826.42	8,305.60	51.90	83.10	140.06	-4,732.24	3,800.02	1,116.10	1,009.26	106.84	10.446	
14,105.32	7,500.00	12,821.00	8,305.54	51.89	83.01	140.05	-4,726.84	3,800.41	1,116.04	1,009.24	106.80	10.450	ES
14,128.08	7,500.00	12,803.55	8,305.33	51.82	82.74	140.04	-4,709.44	3,801.77	1,115.92	1,009.28	106.64	10.464	CC
14,200.00	7,500.00	12,747.24	8,304.64	51.63	81.88	139.94	-4,653.39	3,807.14	1,117.09	1,010.91	106.18	10.521	
14,300.00	7,500.00	12,657.15	8,303.39	51.35	80.49	139.69	-4,563.82	3,816.65	1,121.30	1,015.72	105.58	10.620	
14,333.98	7,500.00	12,633.22	8,303.32	51.26	80.12	139.62	-4,540.04	3,819.31	1,123.66	1,018.26	105.40	10.661	
14,400.00	7,500.00	12,553.80	8,302.97	51.09	78.90	139.25	-4,461.12	3,828.14	1,128.42	1,023.42	104.99	10.748	
14,500.00	7,500.00	12,441.00	8,300.68	50.84	77.17	138.69	-4,349.00	3,840.35	1,134.28	1,029.90	104.38	10.867	
14,600.00	7,500.00	12,359.30	8,298.54	50.59	75.92	138.25	-4,267.85	3,849.57	1,140.22	1,036.40	103.83	10.982	
14,700.00	7,500.00	12,287.38	8,299.88	50.35	74.83	138.00	-4,196.36	3,857.20	1,148.90	1,045.69	103.21	11.131	
14,800.00	7,500.00	12,164.24	8,304.90	50.12	72.96	137.77	-4,073.75	3,867.43	1,157.87	1,055.43	102.44	11.303	
14,900.00	7,500.00	12,031.50	8,307.77	49.90	70.97	137.55	-3,941.29	3,875.53	1,163.82	1,062.23	101.59	11.456	
15,000.00	7,500.00	11,935.10	8,308.42	49.69	69.53	137.34	-3,845.08	3,881.43	1,168.77	1,067.87	100.90	11.584	
15,100.00	7,500.00	11,817.94	8,306.81	49.48	67.78	136.95	-3,728.28	3,890.23	1,173.19	1,073.06	100.13	11.717	
15,200.00	7,500.00	11,742.00	8,303.31	49.28	66.64	136.52	-3,652.92	3,898.88	1,177.94	1,078.37	99.58	11.829	
15,300.00	7,500.00	11,679.00	8,301.06	49.09	65.70	136.09	-3,590.72	3,908.62	1,185.97	1,086.94	99.03	11.975	
15,400.00	7,500.00	11,617.92	8,300.54	48.91	64.79	135.72	-3,530.47	3,918.60	1,196.86	1,098.44	98.43	12.160	
15,500.00	7,500.00	11,484.58	8,301.02	48.74	62.81	135.05	-3,398.56	3,937.97	1,207.72	1,110.06	97.65	12.367	
15,600.00	7,500.00	11,386.81	8,301.33	48.57	61.37	134.63	-3,301.57	3,950.39	1,217.30	1,120.36	96.94	12.558	
15,700.00	7,500.00	11,279.00	8,302.04	48.42	59.79	134.22	-3,194.52	3,963.04	1,226.48	1,130.30	96.18	12.752	
15,800.00	7,500.00	11,177.10	8,301.85	48.27	58.31	133.81	-3,093.33	3,975.12	1,235.23	1,139.80	95.43	12.943	
15,900.00	7,500.00	11,052.86	8,302.79	48.13	56.53	133.45	-2,969.66	3,986.85	1,242.90	1,148.30	94.60	13.139	
16,000.00	7,500.00	10,949.32	8,302.46	48.01	55.06	133.13	-2,866.53	3,996.08	1,249.50	1,155.66	93.84	13.315	
16,100.00	7,500.00	10,843.96	8,302.10	47.89	53.58	132.83	-2,761.56	4,005.02	1,255.82	1,162.75	93.08	13.492	
16,200.00	7,500.00	10,735.06	8,304.79	47.78	52.07	132.73	-2,652.83	4,010.41	1,261.45	1,169.12	92.32	13.663	
16,300.00	7,500.00	10,633.74	8,305.97	47.68	50.69	132.59	-2,551.68	4,016.02	1,266.63	1,175.02	91.61	13.826	
16,400.00	7,500.00	10,552.92	8,303.78	47.59	49.58	132.26	-2,471.30	4,023.98	1,272.47	1,181.49	90.98	13.987	
16,500.00	7,500.00	10,483.06	8,301.26	47.51	48.63	131.89	-2,402.11	4,033.33	1,280.38	1,190.02	90.36	14.170	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy

Offset Site Error: 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	7,500.00	10,416.75	8,300.32	47.44	47.73	131.55	-2,336.53	4,043.06	1,290.80	1,201.06	89.74	14.384	
16,700.00	7,500.00	10,310.63	8,300.29	47.39	46.31	131.07	-2,231.62	4,059.05	1,302.49	1,213.52	88.97	14.639	
16,800.00	7,500.00	10,192.29	8,300.36	47.34	44.75	130.59	-2,114.38	4,075.16	1,313.24	1,225.06	88.18	14.893	
16,900.00	7,500.00	10,076.67	8,301.30	47.31	43.27	130.26	-1,999.44	4,087.52	1,322.22	1,234.79	87.43	15.123	
17,000.00	7,500.00	9,974.95	8,301.25	47.29	42.00	129.94	-1,898.31	4,098.52	1,330.83	1,244.08	86.75	15.342	
17,100.00	7,500.00	9,868.21	8,299.88	47.28	40.69	129.55	-1,792.27	4,110.62	1,339.08	1,253.05	86.04	15.564	
17,200.00	7,500.00	9,768.69	8,297.53	47.28	39.49	129.14	-1,693.47	4,122.35	1,347.08	1,261.72	85.36	15.781	
17,300.00	7,500.00	9,677.57	8,294.94	47.30	38.42	128.73	-1,603.16	4,134.14	1,355.73	1,271.00	84.72	16.002	
17,400.00	7,500.00	9,554.26	8,291.32	47.33	37.03	128.21	-1,480.79	4,148.85	1,363.63	1,279.65	83.98	16.238	
17,500.00	7,500.00	9,454.77	8,289.30	47.37	35.96	127.88	-1,381.79	4,158.58	1,370.44	1,287.05	83.40	16.433	
17,600.00	7,500.00	9,362.50	8,286.94	47.43	35.00	127.53	-1,290.10	4,168.54	1,377.80	1,294.95	82.86	16.629	
17,700.00	7,500.00	9,271.00	8,284.18	47.50	34.08	127.16	-1,199.28	4,179.40	1,385.79	1,303.46	82.33	16.833	
17,800.00	7,500.00	9,184.88	8,280.28	47.59	33.24	126.72	-1,114.10	4,191.37	1,394.59	1,312.79	81.80	17.049	
17,900.00	7,500.00	9,095.33	8,276.03	47.69	32.42	126.25	-1,025.64	4,204.65	1,404.14	1,322.86	81.28	17.275	
18,000.00	7,500.00	9,010.35	8,275.23	47.81	31.68	125.94	-941.44	4,215.99	1,414.76	1,333.89	80.87	17.494	
18,100.00	7,500.00	8,840.27	8,276.33	47.94	30.38	125.56	-772.20	4,232.65	1,423.51	1,342.98	80.53	17.677	
18,200.00	7,500.00	8,780.38	8,273.54	48.08	29.96	125.30	-712.82	4,239.64	1,430.86	1,350.62	80.25	17.831	
18,300.00	7,500.00	8,729.00	8,270.28	48.25	29.61	124.99	-662.30	4,248.44	1,441.62	1,361.70	79.92	18.039	
18,400.00	7,500.00	8,697.00	8,268.05	48.42	29.40	124.75	-631.20	4,255.59	1,456.38	1,376.81	79.57	18.304	
18,461.64	7,500.00	8,666.00	8,265.45	48.54	29.19	124.47	-601.47	4,263.97	1,467.57	1,388.27	79.30	18.507	
18,462.14	7,500.00	8,666.00	8,265.45	49.47	29.19	124.47	-601.47	4,263.97	1,467.67	1,387.54	80.13	18.316	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 156-MWD OWSG Rev5 **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	19,907.00	9,811.90	0.00	171.86	87.31	55.55	1,182.04	9,860.16				
100.00	100.00	19,907.00	9,811.90	0.28	171.86	87.31	55.55	1,182.04	9,760.89	9,666.18	94.72	103.055	
200.00	200.00	19,907.00	9,811.90	0.63	171.86	87.31	55.55	1,182.04	9,661.64	9,566.84	94.79	101.922	
300.00	300.00	19,907.00	9,811.90	0.99	171.86	87.31	55.55	1,182.04	9,562.40	9,467.52	94.88	100.783	
400.00	400.00	19,907.00	9,811.90	1.35	171.86	87.31	55.55	1,182.04	9,463.17	9,368.20	94.98	99.638	
500.00	500.00	19,907.00	9,811.90	1.71	171.86	87.31	55.55	1,182.04	9,363.97	9,268.89	95.08	98.487	
600.00	599.98	19,907.00	9,811.90	2.06	171.86	-23.18	55.55	1,182.04	9,264.58	9,169.40	95.18	97.336	
700.00	699.84	19,907.00	9,811.90	2.40	171.86	-35.36	55.55	1,182.04	9,164.91	9,069.64	95.27	96.198	
750.00	749.68	19,907.00	9,811.90	2.58	171.86	-46.49	55.55	1,182.04	9,114.99	9,019.69	95.31	95.636	
800.00	799.49	19,907.00	9,811.90	2.75	171.86	-46.49	55.55	1,182.04	9,065.06	8,969.72	95.34	95.078	
900.00	899.11	19,907.00	9,811.90	3.10	171.86	-46.49	55.55	1,182.04	8,965.20	8,869.79	95.41	93.961	
1,000.00	998.73	19,907.00	9,811.90	3.46	171.86	-46.49	55.55	1,182.04	8,865.35	8,769.86	95.49	92.841	
1,001.27	1,000.00	19,907.00	9,811.90	3.46	171.86	-46.49	55.55	1,182.04	8,864.08	8,768.58	95.49	92.827	
1,100.00	1,098.18	19,907.00	9,811.90	3.81	171.86	-87.90	55.55	1,182.04	8,765.46	8,669.90	95.56	91.728	
1,200.00	1,197.22	19,907.00	9,811.90	4.18	171.86	-126.18	55.55	1,182.04	8,665.58	8,569.97	95.61	90.637	
1,300.00	1,295.71	19,907.00	9,811.90	4.54	171.86	-145.14	55.55	1,182.04	8,565.84	8,470.20	95.63	89.571	
1,400.00	1,393.53	19,907.00	9,811.90	4.91	171.86	-154.58	55.55	1,182.04	8,466.36	8,370.72	95.63	88.529	
1,414.82	1,407.97	19,907.00	9,811.90	4.97	171.86	-155.57	55.55	1,182.04	8,451.64	8,356.01	95.63	88.380	
1,500.00	1,490.88	19,907.00	9,811.90	5.28	171.86	-155.57	55.55	1,182.04	8,367.11	8,271.49	95.62	87.502	
1,600.00	1,588.22	19,907.00	9,811.90	5.66	171.86	-155.57	55.55	1,182.04	8,267.89	8,172.28	95.62	86.468	
1,700.00	1,685.56	19,907.00	9,811.90	6.04	171.86	-155.57	55.55	1,182.04	8,168.69	8,073.08	95.62	85.431	
1,800.00	1,782.90	19,907.00	9,811.90	6.42	171.86	-155.57	55.55	1,182.04	8,069.51	7,973.89	95.62	84.392	
1,900.00	1,880.24	19,907.00	9,811.90	6.80	171.86	-155.57	55.55	1,182.04	7,970.35	7,874.73	95.62	83.351	
2,000.00	1,977.58	19,907.00	9,811.90	7.18	171.86	-155.57	55.55	1,182.04	7,871.21	7,775.58	95.63	82.309	
2,100.00	2,074.91	19,907.00	9,811.90	7.57	171.86	-155.57	55.55	1,182.04	7,772.09	7,676.46	95.64	81.265	
2,200.00	2,172.25	19,907.00	9,811.90	7.95	171.86	-155.57	55.55	1,182.04	7,673.00	7,577.35	95.65	80.219	
2,300.00	2,269.59	19,907.00	9,811.90	8.34	171.86	-155.57	55.55	1,182.04	7,573.93	7,478.27	95.66	79.173	
2,400.00	2,366.93	19,907.00	9,811.90	8.73	171.86	-155.57	55.55	1,182.04	7,474.88	7,379.21	95.68	78.125	
2,500.00	2,464.27	19,907.00	9,811.90	9.11	171.86	-155.57	55.55	1,182.04	7,375.86	7,280.17	95.69	77.077	
2,600.00	2,561.61	19,907.00	9,811.90	9.50	171.86	-155.57	55.55	1,182.04	7,276.87	7,181.16	95.71	76.028	
2,700.00	2,658.95	19,907.00	9,811.90	9.89	171.86	-155.57	55.55	1,182.04	7,177.90	7,082.17	95.73	74.979	
2,800.00	2,756.29	19,907.00	9,811.90	10.28	171.86	-155.57	55.55	1,182.04	7,078.97	6,983.21	95.75	73.930	
2,900.00	2,853.63	19,907.00	9,811.90	10.67	171.86	-155.57	55.55	1,182.04	6,980.06	6,884.29	95.77	72.880	
3,000.00	2,950.97	19,907.00	9,811.90	11.06	171.86	-155.57	55.55	1,182.04	6,881.19	6,785.39	95.80	71.830	
3,100.00	3,048.31	19,907.00	9,811.90	11.45	171.86	-155.57	55.55	1,182.04	6,782.35	6,686.52	95.82	70.781	
3,200.00	3,145.64	19,907.00	9,811.90	11.84	171.86	-155.57	55.55	1,182.04	6,683.54	6,587.69	95.85	69.731	
3,300.00	3,242.98	19,907.00	9,811.90	12.23	171.86	-155.57	55.55	1,182.04	6,584.77	6,488.89	95.87	68.682	
3,400.00	3,340.32	19,907.00	9,811.90	12.62	171.86	-155.57	55.55	1,182.04	6,486.03	6,390.13	95.90	67.634	
3,500.00	3,437.66	19,907.00	9,811.90	13.01	171.86	-155.57	55.55	1,182.04	6,387.34	6,291.41	95.93	66.586	
3,600.00	3,535.00	19,907.00	9,811.90	13.40	171.86	-155.57	55.55	1,182.04	6,288.69	6,192.73	95.95	65.539	
3,700.00	3,632.34	19,907.00	9,811.90	13.79	171.86	-155.57	55.55	1,182.04	6,190.08	6,094.10	95.98	64.492	
3,800.00	3,729.68	19,907.00	9,811.90	14.19	171.86	-155.57	55.55	1,182.04	6,091.51	5,995.50	96.01	63.446	
3,900.00	3,827.02	19,907.00	9,811.90	14.58	171.86	-155.57	55.55	1,182.04	5,993.00	5,896.96	96.04	62.401	
4,000.00	3,924.36	19,907.00	9,811.90	14.97	171.86	-155.57	55.55	1,182.04	5,894.53	5,798.46	96.07	61.358	
4,100.00	4,021.70	19,907.00	9,811.90	15.36	171.86	-155.57	55.55	1,182.04	5,796.12	5,700.02	96.10	60.315	
4,200.00	4,119.04	19,907.00	9,811.90	15.75	171.86	-155.57	55.55	1,182.04	5,697.76	5,601.63	96.13	59.273	
4,300.00	4,216.37	19,907.00	9,811.90	16.15	171.86	-155.57	55.55	1,182.04	5,599.46	5,503.30	96.16	58.233	
4,400.00	4,313.71	19,907.00	9,811.90	16.54	171.86	-155.57	55.55	1,182.04	5,501.22	5,405.03	96.19	57.193	
4,500.00	4,411.05	19,907.00	9,811.90	16.93	171.86	-155.57	55.55	1,182.04	5,403.04	5,306.83	96.22	56.156	
4,600.00	4,508.39	19,907.00	9,811.90	17.32	171.86	-155.57	55.55	1,182.04	5,304.94	5,208.69	96.25	55.119	
4,700.00	4,605.73	19,907.00	9,811.90	17.72	171.86	-155.57	55.55	1,182.04	5,206.90	5,110.63	96.27	54.084	
4,800.00	4,703.07	19,907.00	9,811.90	18.11	171.86	-155.57	55.55	1,182.04	5,108.94	5,012.64	96.30	53.050	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Survey Program: 156-MWD OWSG Rev5 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	19,907.00	9,811.90	18.50	171.86	-155.57	55.55	1,182.04	5,011.06	4,914.73	96.33	52.018	
5,000.00	4,897.75	19,907.00	9,811.90	18.90	171.86	-155.57	55.55	1,182.04	4,913.27	4,816.91	96.36	50.988	
5,100.00	4,995.09	19,907.00	9,811.90	19.29	171.86	-155.57	55.55	1,182.04	4,815.57	4,719.18	96.39	49.959	
5,200.00	5,092.43	19,907.00	9,811.90	19.68	171.86	-155.57	55.55	1,182.04	4,717.97	4,621.55	96.42	48.932	
5,300.00	5,189.77	19,907.00	9,811.90	20.07	171.86	-155.57	55.55	1,182.04	4,620.46	4,524.02	96.45	47.907	
5,400.00	5,287.10	19,907.00	9,811.90	20.47	171.86	-155.57	55.55	1,182.04	4,523.07	4,426.59	96.48	46.883	
5,500.00	5,384.44	19,907.00	9,811.90	20.86	171.86	-155.57	55.55	1,182.04	4,425.79	4,329.29	96.50	45.861	
5,600.00	5,481.78	19,907.00	9,811.90	21.25	171.86	-155.57	55.55	1,182.04	4,328.64	4,232.10	96.53	44.841	
5,700.00	5,579.12	19,907.00	9,811.90	21.65	171.86	-155.57	55.55	1,182.04	4,231.62	4,135.05	96.56	43.823	
5,800.00	5,676.46	19,907.00	9,811.90	22.04	171.86	-155.57	55.55	1,182.04	4,134.74	4,038.14	96.59	42.806	
5,900.00	5,773.80	19,907.00	9,811.90	22.43	171.86	-155.57	55.55	1,182.04	4,038.01	3,941.39	96.62	41.791	
6,000.00	5,871.14	19,907.00	9,811.90	22.83	171.86	-155.57	55.55	1,182.04	3,941.45	3,844.79	96.66	40.778	
6,100.00	5,968.48	19,907.00	9,811.90	23.22	171.86	-155.57	55.55	1,182.04	3,845.06	3,748.37	96.69	39.767	
6,200.00	6,065.82	19,907.00	9,811.90	23.61	171.86	-155.57	55.55	1,182.04	3,748.86	3,652.13	96.73	38.757	
6,300.00	6,163.16	19,907.00	9,811.90	24.01	171.86	-155.57	55.55	1,182.04	3,652.87	3,556.10	96.77	37.749	
6,400.00	6,260.50	19,907.00	9,811.90	24.40	171.86	-155.57	55.55	1,182.04	3,557.09	3,460.28	96.81	36.742	
6,500.00	6,357.83	19,907.00	9,811.90	24.79	171.86	-155.57	55.55	1,182.04	3,461.56	3,364.70	96.86	35.737	
6,600.00	6,455.17	19,907.00	9,811.90	25.19	171.86	-155.57	55.55	1,182.04	3,366.28	3,269.36	96.92	34.733	
6,700.00	6,552.51	19,907.00	9,811.90	25.58	171.86	-155.57	55.55	1,182.04	3,271.29	3,174.31	96.98	33.731	
6,800.00	6,649.85	19,907.00	9,811.90	25.98	171.86	-155.57	55.55	1,182.04	3,176.60	3,079.55	97.06	32.730	
6,900.00	6,747.19	19,907.00	9,811.90	26.37	171.86	-155.57	55.55	1,182.04	3,082.25	2,985.11	97.14	31.729	
7,000.00	6,844.53	19,907.00	9,811.90	26.76	171.86	-155.57	55.55	1,182.04	2,988.27	2,891.03	97.25	30.729	
7,100.00	6,941.87	19,907.00	9,811.90	27.16	171.86	-155.57	55.55	1,182.04	2,894.69	2,797.32	97.37	29.730	
7,115.01	6,956.48	19,907.00	9,811.90	27.22	171.86	-155.57	55.55	1,182.04	2,880.68	2,783.30	97.39	29.580	
7,150.00	6,990.45	19,907.00	9,811.90	27.35	171.86	-162.49	55.55	1,182.04	2,848.33	2,750.90	97.43	29.235	
7,200.00	7,038.53	19,907.00	9,811.90	27.55	171.86	-169.98	55.55	1,182.04	2,803.33	2,705.85	97.49	28.756	
7,250.00	7,085.72	19,907.00	9,811.90	27.75	171.86	-174.74	55.55	1,182.04	2,760.16	2,662.62	97.54	28.299	
7,300.00	7,131.67	19,907.00	9,811.90	27.94	171.86	-177.70	55.55	1,182.04	2,719.22	2,621.64	97.58	27.867	
7,350.00	7,176.02	19,907.00	9,811.90	28.13	171.86	-179.59	55.55	1,182.04	2,680.96	2,583.34	97.62	27.464	
7,400.00	7,218.44	19,907.00	9,811.90	28.32	171.86	179.14	55.55	1,182.04	2,645.77	2,548.12	97.64	27.096	
7,450.00	7,258.60	19,907.00	9,811.90	28.50	171.86	178.24	55.55	1,182.04	2,614.05	2,516.39	97.66	26.766	
7,500.00	7,296.21	19,907.00	9,811.90	28.67	171.86	177.56	55.55	1,182.04	2,586.19	2,488.52	97.67	26.480	
7,550.00	7,330.97	19,907.00	9,811.90	28.84	171.86	177.02	55.55	1,182.04	2,562.52	2,464.86	97.65	26.241	
7,600.00	7,362.62	19,907.00	9,811.90	28.99	171.86	176.55	55.55	1,182.04	2,543.33	2,445.71	97.62	26.052	
7,650.00	7,390.91	19,907.00	9,811.90	29.15	171.86	176.13	55.55	1,182.04	2,528.89	2,431.31	97.57	25.918	
7,700.00	7,415.64	19,907.00	9,811.90	29.30	171.86	175.72	55.55	1,182.04	2,519.37	2,421.88	97.49	25.842	
7,750.00	7,436.62	19,907.00	9,811.90	29.44	171.86	175.29	55.55	1,182.04	2,514.91	2,417.53	97.38	25.825	
7,768.52	7,443.40	19,907.00	9,811.90	29.49	171.86	175.13	55.55	1,182.04	2,514.56	2,417.23	97.34	25.834	CC, ES
7,800.00	7,453.68	19,907.00	9,811.90	29.57	171.86	174.85	55.55	1,182.04	2,515.58	2,418.33	97.25	25.868	
7,825.96	7,460.95	19,907.00	9,811.90	29.64	171.86	174.59	55.55	1,182.04	2,517.94	2,420.78	97.16	25.915	
7,900.00	7,477.79	19,907.00	9,811.90	29.84	171.86	174.54	55.55	1,182.04	2,530.06	2,433.18	96.89	26.114	
8,000.00	7,493.08	19,907.00	9,811.90	30.11	171.86	174.41	55.55	1,182.04	2,557.07	2,460.62	96.45	26.513	
8,100.00	7,499.70	19,907.00	9,811.90	30.38	171.86	174.20	55.55	1,182.04	2,595.74	2,499.79	95.95	27.054	
8,125.95	7,499.99	19,907.00	9,811.90	30.45	171.86	174.13	55.55	1,182.04	2,607.59	2,511.78	95.81	27.216	
8,200.00	7,499.99	19,907.00	9,811.90	30.65	171.86	174.13	55.55	1,182.04	2,643.23	2,547.84	95.40	27.708	
8,300.00	7,499.99	19,907.00	9,811.90	30.94	171.86	174.13	55.55	1,182.04	2,693.85	2,599.05	94.81	28.414	
8,400.00	7,499.99	19,907.00	9,811.90	31.24	171.86	174.13	55.55	1,182.04	2,747.19	2,652.99	94.19	29.165	
8,500.00	7,499.99	19,907.00	9,811.90	31.56	171.86	174.13	55.55	1,182.04	2,803.07	2,709.51	93.56	29.960	
8,600.00	7,500.00	19,907.00	9,811.90	31.88	171.86	174.13	55.55	1,182.04	2,861.36	2,768.45	92.91	30.797	
8,700.00	7,500.00	19,907.00	9,811.90	32.22	171.86	174.13	55.55	1,182.04	2,921.91	2,829.66	92.25	31.674	
8,800.00	7,500.00	19,907.00	9,811.90	32.58	171.86	174.13	55.55	1,182.04	2,984.58	2,893.00	91.59	32.588	
8,900.00	7,500.00	19,907.00	9,811.90	32.94	171.86	174.13	55.55	1,182.04	3,049.25	2,958.33	90.92	33.538	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 156-MWD OWSG Rev5 **Offset Well Error:** 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	19,907.00	9,811.90	33.32	171.86	174.13	55.55	1,182.04	3,115.78	3,025.53	90.25	34.522	
9,100.00	7,500.00	19,907.00	9,811.90	33.71	171.86	174.13	55.55	1,182.04	3,184.07	3,094.47	89.60	35.538	
9,200.00	7,500.00	19,907.00	9,811.90	34.11	171.86	174.13	55.55	1,182.04	3,253.99	3,165.04	88.95	36.584	
9,300.00	7,500.00	19,907.00	9,811.90	34.52	171.86	174.13	55.55	1,182.04	3,325.45	3,237.15	88.31	37.658	
9,400.00	7,500.00	19,907.00	9,811.90	34.94	171.86	174.13	55.55	1,182.04	3,398.35	3,310.67	87.68	38.758	
9,500.00	7,500.00	19,907.00	9,811.90	35.37	171.86	174.13	55.55	1,182.04	3,472.61	3,385.54	87.07	39.884	
9,600.00	7,500.00	19,907.00	9,811.90	35.81	171.86	174.13	55.55	1,182.04	3,548.12	3,461.65	86.47	41.032	
9,700.00	7,500.00	19,907.00	9,811.90	36.26	171.86	174.13	55.55	1,182.04	3,624.82	3,538.93	85.89	42.202	
9,800.00	7,500.00	19,907.00	9,811.90	36.73	171.86	174.13	55.55	1,182.04	3,702.64	3,617.31	85.33	43.392	
9,900.00	7,500.00	19,907.00	9,811.90	37.20	171.86	174.13	55.55	1,182.04	3,781.49	3,696.71	84.79	44.600	
10,000.00	7,500.00	19,907.00	9,811.90	37.68	171.86	174.13	55.55	1,182.04	3,861.33	3,777.07	84.26	45.826	
10,100.00	7,500.00	19,907.00	9,811.90	38.17	171.86	174.13	55.55	1,182.04	3,942.09	3,858.33	83.75	47.068	
10,200.00	7,500.00	19,907.00	9,811.90	38.66	171.86	174.13	55.55	1,182.04	4,023.71	3,940.44	83.26	48.325	
10,300.00	7,500.00	19,907.00	9,811.90	39.17	171.86	174.13	55.55	1,182.04	4,106.14	4,023.35	82.79	49.595	
10,400.00	7,500.00	19,907.00	9,811.90	39.68	171.86	174.13	55.55	1,182.04	4,189.34	4,107.00	82.34	50.878	
10,500.00	7,500.00	19,907.00	9,811.90	40.20	171.86	174.13	55.55	1,182.04	4,273.26	4,191.36	81.91	52.172	
10,600.00	7,500.00	19,907.00	9,811.90	40.73	171.86	174.13	55.55	1,182.04	4,357.86	4,276.37	81.49	53.477	
10,700.00	7,500.00	19,907.00	9,811.90	41.26	171.86	174.13	55.55	1,182.04	4,443.10	4,362.01	81.09	54.792	
10,800.00	7,500.00	19,907.00	9,811.90	41.80	171.86	174.13	55.55	1,182.04	4,528.94	4,448.23	80.71	56.115	
10,900.00	7,500.00	19,907.00	9,811.90	42.35	171.86	174.13	55.55	1,182.04	4,615.35	4,535.01	80.34	57.447	
11,000.00	7,500.00	19,907.00	9,811.90	42.91	171.86	174.13	55.55	1,182.04	4,702.30	4,622.31	79.99	58.786	
11,100.00	7,500.00	19,907.00	9,811.90	43.47	171.86	174.13	55.55	1,182.04	4,789.76	4,710.11	79.66	60.131	
11,200.00	7,500.00	19,907.00	9,811.90	44.03	171.86	174.13	55.55	1,182.04	4,877.71	4,798.37	79.34	61.482	
11,300.00	7,500.00	19,907.00	9,811.90	44.61	171.86	174.13	55.55	1,182.04	4,966.10	4,887.07	79.03	62.838	
11,400.00	7,500.00	19,907.00	9,811.90	45.18	171.86	174.13	55.55	1,182.04	5,054.94	4,976.20	78.74	64.199	
11,500.00	7,500.00	19,907.00	9,811.90	45.77	171.86	174.13	55.55	1,182.04	5,144.18	5,065.71	78.46	65.563	
11,581.32	7,500.00	19,907.00	9,811.90	46.24	171.86	174.13	55.55	1,182.04	5,217.03	5,138.79	78.24	66.676	
11,600.00	7,500.00	19,907.00	9,811.90	46.35	171.86	176.78	55.55	1,182.04	5,233.81	5,155.62	78.20	66.930	
11,650.00	7,500.00	19,907.00	9,811.90	46.65	171.86	-176.05	55.55	1,182.04	5,278.82	5,200.72	78.10	67.589	
11,700.00	7,500.00	19,907.00	9,811.90	46.96	171.86	-168.94	55.55	1,182.04	5,323.82	5,245.78	78.04	68.217	
11,750.00	7,500.00	19,907.00	9,811.90	47.27	171.86	-162.12	55.55	1,182.04	5,368.66	5,290.63	78.02	68.809	
11,800.00	7,500.00	19,907.00	9,811.90	47.59	171.86	-155.78	55.55	1,182.04	5,413.17	5,335.13	78.04	69.360	
11,850.00	7,500.00	19,907.00	9,811.90	47.91	171.86	-150.03	55.55	1,182.04	5,457.21	5,379.10	78.11	69.867	
11,900.00	7,500.00	19,907.00	9,811.90	48.23	171.86	-144.91	55.55	1,182.04	5,500.62	5,422.40	78.22	70.325	
11,950.00	7,500.00	19,907.00	9,811.90	48.56	171.86	-140.39	55.55	1,182.04	5,543.26	5,464.89	78.37	70.730	
12,000.00	7,500.00	19,907.00	9,811.90	48.88	171.86	-136.45	55.55	1,182.04	5,585.00	5,506.43	78.57	71.079	
12,050.00	7,500.00	19,907.00	9,811.90	49.20	171.86	-133.03	55.55	1,182.04	5,625.70	5,546.87	78.83	71.368	
12,100.00	7,500.00	19,907.00	9,811.90	49.52	171.86	-130.05	55.55	1,182.04	5,665.24	5,586.11	79.13	71.593	
12,150.00	7,500.00	19,907.00	9,811.90	49.83	171.86	-127.46	55.55	1,182.04	5,703.49	5,624.00	79.49	71.753	
12,200.00	7,500.00	19,907.00	9,811.90	50.14	171.86	-125.22	55.55	1,182.04	5,740.35	5,660.45	79.90	71.846	
12,250.00	7,500.00	19,907.00	9,811.90	50.44	171.86	-123.26	55.55	1,182.04	5,775.70	5,695.34	80.36	71.870	
12,300.00	7,500.00	19,907.00	9,811.90	50.74	171.86	-121.56	55.55	1,182.04	5,809.45	5,728.56	80.88	71.824	
12,350.00	7,500.00	19,907.00	9,811.90	51.02	171.86	-120.07	55.55	1,182.04	5,841.49	5,760.03	81.46	71.710	
12,400.00	7,500.00	19,907.00	9,811.90	51.30	171.86	-118.77	55.55	1,182.04	5,871.75	5,789.65	82.09	71.527	
12,450.00	7,500.00	19,907.00	9,811.90	51.56	171.86	-117.64	55.55	1,182.04	5,900.13	5,817.35	82.78	71.276	
12,500.00	7,500.00	19,907.00	9,811.90	51.81	171.86	-116.65	55.55	1,182.04	5,926.56	5,843.04	83.52	70.961	
12,550.00	7,500.00	19,907.00	9,811.90	52.05	171.86	-115.79	55.55	1,182.04	5,950.97	5,866.66	84.31	70.584	
12,600.00	7,500.00	19,907.00	9,811.90	52.27	171.86	-115.05	55.55	1,182.04	5,973.30	5,888.15	85.15	70.147	
12,650.00	7,500.00	19,907.00	9,811.90	52.48	171.86	-114.41	55.55	1,182.04	5,993.49	5,907.44	86.05	69.654	
12,700.00	7,500.00	19,907.00	9,811.90	52.67	171.86	-113.86	55.55	1,182.04	6,011.48	5,924.49	86.99	69.109	
12,750.00	7,500.00	19,907.00	9,811.90	52.84	171.86	-113.40	55.55	1,182.04	6,027.22	5,939.26	87.97	68.517	
12,800.00	7,500.00	19,907.00	9,811.90	53.00	171.86	-113.01	55.55	1,182.04	6,040.69	5,951.70	88.99	67.881	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 156-MWD OWSG Rev5 **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,850.00	7,500.00	19,907.00	9,811.90	53.14	171.86	-112.70	55.55	1,182.04	6,051.84	5,961.79	90.05	67.206	
12,900.00	7,500.00	19,907.00	9,811.90	53.27	171.86	-112.47	55.55	1,182.04	6,060.65	5,969.50	91.14	66.497	
12,950.00	7,500.00	19,907.00	9,811.90	53.37	171.86	-112.29	55.55	1,182.04	6,067.09	5,974.82	92.27	65.757	
13,000.00	7,500.00	19,907.00	9,811.90	53.46	171.86	-112.19	55.55	1,182.04	6,071.14	5,977.73	93.41	64.991	
13,050.00	7,500.00	19,907.00	9,811.90	53.53	171.86	-112.14	55.55	1,182.04	6,072.81	5,978.22	94.59	64.204	
13,100.00	7,500.00	19,907.00	9,811.90	53.58	171.86	-112.16	55.55	1,182.04	6,072.08	5,976.30	95.77	63.399	
13,150.00	7,500.00	19,907.00	9,811.90	53.62	171.86	-112.24	55.55	1,182.04	6,068.95	5,971.97	96.98	62.581	
13,200.00	7,500.00	19,907.00	9,811.90	53.63	171.86	-112.39	55.55	1,182.04	6,063.44	5,965.25	98.19	61.752	
13,250.00	7,500.00	19,907.00	9,811.90	53.63	171.86	-112.60	55.55	1,182.04	6,055.55	5,956.14	99.41	60.916	
13,300.00	7,500.00	19,907.00	9,811.90	53.62	171.86	-112.88	55.55	1,182.04	6,045.31	5,944.69	100.63	60.077	
13,350.00	7,500.00	19,907.00	9,811.90	53.58	171.86	-113.24	55.55	1,182.04	6,032.75	5,930.90	101.84	59.237	
13,400.00	7,500.00	19,907.00	9,811.90	53.54	171.86	-113.67	55.55	1,182.04	6,017.88	5,914.83	103.05	58.398	
13,450.00	7,500.00	19,907.00	9,811.90	53.48	171.86	-114.18	55.55	1,182.04	6,000.76	5,896.52	104.25	57.564	
13,500.00	7,500.00	19,907.00	9,811.90	53.40	171.86	-114.79	55.55	1,182.04	5,981.43	5,876.00	105.43	56.735	
13,550.00	7,500.00	19,907.00	9,811.90	53.32	171.86	-115.49	55.55	1,182.04	5,959.93	5,853.34	106.59	55.915	
13,600.00	7,500.00	19,907.00	9,811.90	53.22	171.86	-116.30	55.55	1,182.04	5,936.32	5,828.59	107.73	55.105	
13,650.00	7,500.00	19,907.00	9,811.90	53.12	171.86	-117.24	55.55	1,182.04	5,910.67	5,801.83	108.84	54.307	
13,700.00	7,500.00	19,907.00	9,811.90	53.00	171.86	-118.31	55.55	1,182.04	5,883.03	5,773.11	109.92	53.521	
13,750.00	7,500.00	19,907.00	9,811.90	52.88	171.86	-119.54	55.55	1,182.04	5,853.50	5,742.53	110.97	52.749	
13,800.00	7,500.00	19,907.00	9,811.90	52.75	171.86	-120.95	55.55	1,182.04	5,822.14	5,710.16	111.98	51.993	
13,850.00	7,500.00	19,907.00	9,811.90	52.61	171.86	-122.57	55.55	1,182.04	5,789.05	5,676.10	112.95	51.253	
13,900.00	7,500.00	19,907.00	9,811.90	52.48	171.86	-124.42	55.55	1,182.04	5,754.31	5,640.43	113.88	50.530	
13,950.00	7,500.00	19,907.00	9,811.90	52.33	171.86	-126.55	55.55	1,182.04	5,718.02	5,603.26	114.76	49.826	
14,000.00	7,500.00	19,907.00	9,811.90	52.19	171.86	-129.00	55.55	1,182.04	5,680.30	5,564.71	115.59	49.140	
14,050.00	7,500.00	19,907.00	9,811.90	52.05	171.86	-131.82	55.55	1,182.04	5,641.25	5,524.88	116.38	48.474	
14,100.00	7,500.00	19,907.00	9,811.90	51.90	171.86	-135.06	55.55	1,182.04	5,600.99	5,483.89	117.11	47.828	
14,105.32	7,500.00	19,907.00	9,811.90	51.89	171.86	-135.43	55.55	1,182.04	5,596.64	5,479.46	117.18	47.761	
14,200.00	7,500.00	19,907.00	9,811.90	51.63	171.86	-137.42	55.55	1,182.04	5,518.76	5,400.28	118.48	46.580	
14,300.00	7,500.00	19,907.00	9,811.90	51.35	171.86	-139.65	55.55	1,182.04	5,435.77	5,315.95	119.82	45.367	
14,333.98	7,500.00	19,907.00	9,811.90	51.26	171.86	-140.44	55.55	1,182.04	5,407.41	5,287.14	120.26	44.963	
14,400.00	7,500.00	19,907.00	9,811.90	51.09	171.86	-140.44	55.55	1,182.04	5,352.35	5,231.22	121.14	44.185	
14,500.00	7,500.00	19,907.00	9,811.90	50.84	171.86	-140.44	55.55	1,182.04	5,269.44	5,146.95	122.49	43.019	
14,600.00	7,500.00	19,907.00	9,811.90	50.59	171.86	-140.44	55.55	1,182.04	5,187.13	5,063.24	123.89	41.868	
14,700.00	7,500.00	19,907.00	9,811.90	50.35	171.86	-140.44	55.55	1,182.04	5,105.45	4,980.12	125.34	40.733	
14,800.00	7,500.00	19,907.00	9,811.90	50.12	171.86	-140.44	55.55	1,182.04	5,024.44	4,897.61	126.83	39.615	
14,900.00	7,500.00	19,907.00	9,811.90	49.90	171.86	-140.44	55.55	1,182.04	4,944.12	4,815.75	128.37	38.514	
15,000.00	7,500.00	19,907.00	9,811.90	49.69	171.86	-140.44	55.55	1,182.04	4,864.53	4,734.57	129.96	37.431	
15,100.00	7,500.00	19,907.00	9,811.90	49.48	171.86	-140.44	55.55	1,182.04	4,785.71	4,654.11	131.60	36.366	
15,200.00	7,500.00	19,907.00	9,811.90	49.28	171.86	-140.44	55.55	1,182.04	4,707.69	4,574.40	133.29	35.320	
15,300.00	7,500.00	19,907.00	9,811.90	49.09	171.86	-140.44	55.55	1,182.04	4,630.51	4,495.49	135.03	34.294	
15,400.00	7,500.00	19,907.00	9,811.90	48.91	171.86	-140.44	55.55	1,182.04	4,554.23	4,417.41	136.81	33.288	
15,500.00	7,500.00	19,907.00	9,811.90	48.74	171.86	-140.44	55.55	1,182.04	4,478.88	4,340.22	138.65	32.303	
15,600.00	7,500.00	19,907.00	9,811.90	48.57	171.86	-140.44	55.55	1,182.04	4,404.50	4,263.96	140.54	31.339	
15,700.00	7,500.00	19,907.00	9,811.90	48.42	171.86	-140.44	55.55	1,182.04	4,331.16	4,188.68	142.48	30.398	
15,800.00	7,500.00	19,907.00	9,811.90	48.27	171.86	-140.44	55.55	1,182.04	4,258.91	4,114.44	144.47	29.479	
15,900.00	7,500.00	19,907.00	9,811.90	48.13	171.86	-140.44	55.55	1,182.04	4,187.80	4,041.29	146.51	28.583	
16,000.00	7,500.00	19,907.00	9,811.90	48.01	171.86	-140.44	55.55	1,182.04	4,117.89	3,969.29	148.60	27.711	
16,100.00	7,500.00	19,907.00	9,811.90	47.89	171.86	-140.44	55.55	1,182.04	4,049.24	3,898.51	150.73	26.864	
16,200.00	7,500.00	19,907.00	9,811.90	47.78	171.86	-140.44	55.55	1,182.04	3,981.92	3,829.01	152.91	26.042	
16,300.00	7,500.00	19,907.00	9,811.90	47.68	171.86	-140.44	55.55	1,182.04	3,915.99	3,760.87	155.12	25.245	
16,400.00	7,500.00	19,907.00	9,811.90	47.59	171.86	-140.44	55.55	1,182.04	3,851.53	3,694.16	157.37	24.474	
16,500.00	7,500.00	19,907.00	9,811.90	47.51	171.86	-140.44	55.55	1,182.04	3,788.62	3,628.96	159.66	23.729	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 156-MWD OWSG Rev5 **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	7,500.00	19,907.00	9,811.90	47.44	171.86	-140.44	55.55	1,182.04	3,727.33	3,565.35	161.98	23.012	
16,700.00	7,500.00	19,907.00	9,811.90	47.39	171.86	-140.44	55.55	1,182.04	3,667.74	3,503.42	164.32	22.321	
16,800.00	7,500.00	19,907.00	9,811.90	47.34	171.86	-140.44	55.55	1,182.04	3,609.94	3,443.27	166.67	21.659	
16,900.00	7,500.00	19,907.00	9,811.90	47.31	171.86	-140.44	55.55	1,182.04	3,554.01	3,384.97	169.04	21.025	
17,000.00	7,500.00	19,907.00	9,811.90	47.29	171.86	-140.44	55.55	1,182.04	3,500.04	3,328.64	171.41	20.419	
17,100.00	7,500.00	19,907.00	9,811.90	47.28	171.86	-140.44	55.55	1,182.04	3,448.14	3,274.37	173.77	19.843	
17,200.00	7,500.00	19,907.00	9,811.90	47.28	171.86	-140.44	55.55	1,182.04	3,398.38	3,222.26	176.12	19.296	
17,300.00	7,500.00	19,907.00	9,811.90	47.30	171.86	-140.44	55.55	1,182.04	3,350.87	3,172.43	178.44	18.779	
17,400.00	7,500.00	19,907.00	9,811.90	47.33	171.86	-140.44	55.55	1,182.04	3,305.70	3,124.98	180.72	18.292	
17,500.00	7,500.00	19,907.00	9,811.90	47.37	171.86	-140.44	55.55	1,182.04	3,262.97	3,080.01	182.96	17.835	
17,600.00	7,500.00	19,907.00	9,811.90	47.43	171.86	-140.44	55.55	1,182.04	3,222.78	3,037.65	185.13	17.408	
17,700.00	7,500.00	19,907.00	9,811.90	47.50	171.86	-140.44	55.55	1,182.04	3,185.22	2,998.00	187.23	17.013	
17,800.00	7,500.00	19,907.00	9,811.90	47.59	171.86	-140.44	55.55	1,182.04	3,150.39	2,961.16	189.23	16.648	
17,900.00	7,500.00	19,907.00	9,811.90	47.69	171.86	-140.44	55.55	1,182.04	3,118.38	2,927.24	191.14	16.315	
18,000.00	7,500.00	19,907.00	9,811.90	47.81	171.86	-140.44	55.55	1,182.04	3,089.28	2,896.35	192.92	16.013	
18,100.00	7,500.00	19,907.00	9,811.90	47.94	171.86	-140.44	55.55	1,182.04	3,063.16	2,868.58	194.58	15.742	
18,200.00	7,500.00	19,907.00	9,811.90	48.08	171.86	-140.44	55.55	1,182.04	3,040.12	2,844.02	196.09	15.504	
18,300.00	7,500.00	19,907.00	9,811.90	48.25	171.86	-140.44	55.55	1,182.04	3,020.21	2,822.76	197.44	15.296	
18,400.00	7,500.00	19,907.00	9,811.90	48.42	171.86	-140.44	55.55	1,182.04	3,003.49	2,804.86	198.63	15.121	
18,461.64	7,500.00	19,907.00	9,811.90	48.54	171.86	-140.44	55.55	1,182.04	2,994.81	2,795.54	199.27	15.029	SF
18,462.14	7,500.00	19,907.00	9,811.90	49.47	171.86	-140.44	55.55	1,182.04	2,994.74	2,795.52	199.22	15.032	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-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	CC, ES
600.00	599.98	599.98	599.98	2.06	2.07	166.20	-0.23	-19.99	21.68	17.56	4.13	5.254	
700.00	699.84	699.84	699.84	2.40	2.43	168.85	-0.23	-19.99	26.79	21.96	4.83	5.547	
750.00	749.68	749.68	749.68	2.58	2.60	170.26	-0.23	-19.99	30.65	25.47	5.18	5.912	
800.00	799.49	799.49	799.49	2.75	2.78	171.47	-0.23	-19.99	34.96	29.42	5.54	6.312	
900.00	899.11	899.11	899.11	3.10	3.14	173.17	-0.23	-19.99	43.59	37.35	6.24	6.982	
1,000.00	998.73	998.73	998.73	3.46	3.50	174.30	-0.23	-19.99	52.26	45.31	6.95	7.517	
1,001.27	1,000.00	1,000.00	1,000.00	3.46	3.50	174.32	-0.23	-19.99	52.37	45.41	6.96	7.523	
1,100.00	1,098.18	1,098.18	1,098.18	3.81	3.85	173.40	-0.23	-19.99	62.59	54.93	7.66	8.167	
1,200.00	1,197.22	1,197.22	1,197.22	4.18	4.21	173.53	-0.23	-19.99	76.35	67.97	8.38	9.111	
1,300.00	1,295.71	1,295.71	1,295.71	4.54	4.56	174.03	-0.23	-19.99	93.54	84.45	9.10	10.284	
1,400.00	1,393.53	1,393.53	1,393.53	4.91	4.91	174.60	-0.23	-19.99	114.15	104.34	9.81	11.634	
1,414.82	1,407.97	1,407.97	1,407.97	4.97	4.96	174.69	-0.23	-19.99	117.50	107.58	9.92	11.843	
1,500.00	1,490.88	1,490.88	1,490.88	5.28	5.26	175.45	-0.23	-19.99	136.95	126.42	10.53	13.011	
1,600.00	1,588.22	1,588.22	1,588.22	5.66	5.61	176.10	-0.23	-19.99	159.80	148.57	11.24	14.221	
1,700.00	1,685.56	1,685.56	1,685.56	6.04	5.96	176.59	-0.23	-19.99	182.68	170.72	11.95	15.285	
1,800.00	1,782.90	1,782.90	1,782.90	6.42	6.31	176.97	-0.23	-19.99	205.56	192.89	12.67	16.227	
1,900.00	1,880.24	1,887.16	1,887.15	6.80	6.67	177.30	-0.57	-18.71	227.22	213.81	13.41	16.942	
2,000.00	1,977.58	1,994.35	1,994.20	7.18	7.04	177.60	-1.90	-13.62	245.31	231.16	14.15	17.336	
2,100.00	2,074.91	2,102.87	2,102.30	7.57	7.41	177.90	-4.29	-4.52	259.70	244.81	14.88	17.449	
2,200.00	2,172.25	2,212.43	2,211.01	7.95	7.78	178.19	-7.76	8.67	270.31	254.70	15.61	17.319	
2,300.00	2,269.59	2,322.72	2,319.83	8.34	8.17	178.50	-12.32	26.01	277.11	260.79	16.32	16.979	
2,400.00	2,366.93	2,433.43	2,428.28	8.73	8.55	178.84	-17.95	47.46	280.06	263.04	17.02	16.455	
2,500.00	2,464.27	2,539.12	2,531.04	9.11	8.93	179.19	-24.23	71.35	279.60	261.87	17.73	15.771	
2,600.00	2,561.61	2,639.10	2,628.12	9.50	9.28	179.54	-30.31	94.48	278.61	260.14	18.47	15.086	
2,700.00	2,658.95	2,739.08	2,725.20	9.89	9.64	179.88	-36.38	117.60	277.63	258.42	19.21	14.452	
2,800.00	2,756.29	2,839.06	2,822.28	10.28	10.01	-179.77	-42.46	140.73	276.66	256.70	19.96	13.863	
2,900.00	2,853.63	2,939.04	2,919.36	10.67	10.37	-179.42	-48.54	163.85	275.70	255.00	20.71	13.315	
3,000.00	2,950.97	3,039.02	3,016.44	11.06	10.74	-179.06	-54.61	186.98	274.75	253.29	21.46	12.804	
3,100.00	3,048.31	3,139.00	3,113.52	11.45	11.11	-178.71	-60.69	210.11	273.81	251.60	22.21	12.327	
3,200.00	3,145.64	3,238.99	3,210.60	11.84	11.48	-178.35	-66.77	233.23	272.89	249.92	22.97	11.881	
3,300.00	3,242.98	3,338.97	3,307.68	12.23	11.85	-177.99	-72.84	256.36	271.97	248.24	23.73	11.462	
3,400.00	3,340.32	3,438.95	3,404.76	12.62	12.23	-177.62	-78.92	279.48	271.06	246.57	24.49	11.069	
3,500.00	3,437.66	3,538.93	3,501.84	13.01	12.60	-177.26	-85.00	302.61	270.17	244.92	25.25	10.700	
3,600.00	3,535.00	3,638.91	3,598.92	13.40	12.98	-176.89	-91.07	325.74	269.28	243.27	26.01	10.352	
3,700.00	3,632.34	3,738.89	3,696.00	13.79	13.36	-176.52	-97.15	348.86	268.41	241.63	26.78	10.023	
3,800.00	3,729.68	3,838.87	3,793.08	14.19	13.74	-176.15	-103.23	371.99	267.55	240.00	27.54	9.713	
3,900.00	3,827.02	3,938.85	3,890.16	14.58	14.12	-175.77	-109.30	395.12	266.70	238.39	28.31	9.420	
4,000.00	3,924.36	4,038.83	3,987.24	14.97	14.50	-175.40	-115.38	418.24	265.86	236.78	29.08	9.142	
4,100.00	4,021.70	4,138.82	4,084.32	15.36	14.88	-175.02	-121.46	441.37	265.03	235.18	29.85	8.879	
4,200.00	4,119.04	4,238.80	4,181.40	15.75	15.26	-174.63	-127.53	464.49	264.22	233.60	30.62	8.629	
4,300.00	4,216.37	4,338.78	4,278.48	16.15	15.65	-174.25	-133.61	487.62	263.41	232.02	31.39	8.392	
4,400.00	4,313.71	4,438.76	4,375.56	16.54	16.03	-173.86	-139.69	510.75	262.62	230.46	32.16	8.166	
4,500.00	4,411.05	4,538.74	4,472.64	16.93	16.41	-173.47	-145.76	533.87	261.84	228.91	32.93	7.951	
4,600.00	4,508.39	4,638.72	4,569.71	17.32	16.80	-173.08	-151.84	557.00	261.07	227.37	33.70	7.746	
4,700.00	4,605.73	4,738.70	4,666.79	17.72	17.19	-172.69	-157.92	580.12	260.32	225.84	34.48	7.550	
4,800.00	4,703.07	4,838.68	4,763.87	18.11	17.57	-172.29	-163.99	603.25	259.58	224.33	35.25	7.364	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	4,938.66	4,860.95	18.50	17.96	-171.89	-170.07	626.38	258.85	222.82	36.02	7.185	
5,000.00	4,897.75	5,038.64	4,958.03	18.90	18.35	-171.49	-176.15	649.50	258.13	221.33	36.80	7.015	
5,100.00	4,995.09	5,138.63	5,055.11	19.29	18.73	-171.09	-182.22	672.63	257.42	219.85	37.57	6.851	
5,200.00	5,092.43	5,238.61	5,152.19	19.68	19.12	-170.68	-188.30	695.76	256.73	218.38	38.35	6.695	
5,300.00	5,189.77	5,338.59	5,249.27	20.07	19.51	-170.28	-194.38	718.88	256.05	216.93	39.12	6.545	
5,400.00	5,287.10	5,438.57	5,346.35	20.47	19.90	-169.87	-200.45	742.01	255.39	215.49	39.90	6.401	
5,500.00	5,384.44	5,538.55	5,443.43	20.86	20.29	-169.45	-206.53	765.13	254.73	214.06	40.67	6.263	
5,600.00	5,481.78	5,638.53	5,540.51	21.25	20.68	-169.04	-212.61	788.26	254.09	212.64	41.45	6.130	
5,700.00	5,579.12	5,738.51	5,637.59	21.65	21.07	-168.63	-218.68	811.39	253.47	211.24	42.23	6.003	
5,800.00	5,676.46	5,838.49	5,734.67	22.04	21.45	-168.21	-224.76	834.51	252.85	209.85	43.00	5.880	
5,900.00	5,773.80	5,938.47	5,831.75	22.43	21.84	-167.79	-230.84	857.64	252.25	208.47	43.78	5.762	
6,000.00	5,871.14	6,038.46	5,928.83	22.83	22.24	-167.37	-236.91	880.76	251.67	207.11	44.56	5.648	
6,100.00	5,968.48	6,138.44	6,025.91	23.22	22.63	-166.94	-242.99	903.89	251.09	205.76	45.33	5.539	
6,200.00	6,065.82	6,238.42	6,122.99	23.61	23.02	-166.52	-249.07	927.02	250.54	204.43	46.11	5.434	
6,300.00	6,163.16	6,338.40	6,220.07	24.01	23.41	-166.09	-255.14	950.14	249.99	203.10	46.89	5.332	
6,400.00	6,260.50	6,438.38	6,317.15	24.40	23.80	-165.66	-261.22	973.27	249.46	201.80	47.66	5.234	
6,500.00	6,357.83	6,538.36	6,414.23	24.79	24.19	-165.23	-267.30	996.39	248.94	200.50	48.44	5.139	
6,600.00	6,455.17	6,638.34	6,511.31	25.19	24.58	-164.80	-273.37	1,019.52	248.44	199.22	49.22	5.048	
6,700.00	6,552.51	6,738.32	6,608.39	25.58	24.97	-164.36	-279.45	1,042.65	247.95	197.96	49.99	4.960	
6,800.00	6,649.85	6,838.30	6,705.47	25.98	25.37	-163.93	-285.53	1,065.77	247.48	196.71	50.77	4.874	
6,900.00	6,747.19	6,938.29	6,802.55	26.37	25.76	-163.49	-291.60	1,088.90	247.02	195.47	51.55	4.792	
7,000.00	6,844.53	7,038.27	6,899.63	26.76	26.15	-163.05	-297.68	1,112.03	246.57	194.25	52.33	4.712	
7,100.00	6,941.87	7,138.25	6,996.71	27.16	26.54	-162.61	-303.76	1,135.15	246.14	193.04	53.10	4.635	
7,115.01	6,956.48	7,153.25	7,011.28	27.22	26.60	-162.54	-304.67	1,138.62	246.08	192.86	53.22	4.624	
7,119.49	6,960.84	7,157.73	7,015.62	27.23	26.62	-164.33	-304.94	1,139.66	246.07	192.81	53.26	4.621	
7,150.00	6,990.45	7,188.20	7,045.21	27.35	26.74	-175.38	-306.79	1,146.71	246.51	193.02	53.49	4.608	SF
7,200.00	7,038.53	7,237.83	7,093.40	27.55	26.93	171.36	-309.81	1,158.19	249.21	195.33	53.88	4.625	
7,250.00	7,085.72	7,286.76	7,140.91	27.75	27.13	163.22	-312.78	1,169.50	254.54	200.28	54.26	4.691	
7,300.00	7,131.67	7,334.61	7,187.37	27.94	27.31	158.52	-315.69	1,180.57	262.80	208.17	54.63	4.811	
7,350.00	7,176.02	7,381.02	7,232.43	28.13	27.50	156.00	-318.51	1,191.31	274.32	219.33	54.99	4.988	
7,400.00	7,218.44	7,425.63	7,275.75	28.32	27.67	154.77	-321.23	1,201.63	289.41	234.07	55.35	5.229	
7,450.00	7,258.60	7,468.12	7,317.00	28.50	27.84	154.24	-323.81	1,211.45	308.29	252.61	55.69	5.536	
7,500.00	7,296.21	7,508.14	7,355.87	28.67	28.00	154.01	-326.24	1,220.71	331.07	275.06	56.01	5.911	
7,550.00	7,330.97	7,545.41	7,392.05	28.84	28.14	153.79	-328.50	1,229.33	357.71	301.40	56.31	6.352	
7,600.00	7,362.62	7,579.63	7,425.28	28.99	28.28	153.37	-330.58	1,237.25	388.08	331.49	56.59	6.858	
7,650.00	7,390.91	7,610.55	7,455.30	29.15	28.40	152.55	-332.46	1,244.40	421.93	365.10	56.83	7.424	
7,700.00	7,415.64	7,637.93	7,481.89	29.30	28.51	151.14	-334.13	1,250.73	458.96	401.92	57.05	8.045	
7,750.00	7,436.62	7,661.55	7,504.83	29.44	28.60	148.89	-335.56	1,256.20	498.82	441.59	57.23	8.716	
7,800.00	7,453.68	7,681.25	7,523.96	29.57	28.68	145.45	-336.76	1,260.75	541.10	483.72	57.38	9.431	
7,825.96	7,460.95	7,689.88	7,532.33	29.64	28.71	143.04	-337.29	1,262.75	563.87	506.43	57.44	9.817	
7,900.00	7,477.79	7,710.69	7,552.53	29.84	28.79	141.76	-338.55	1,267.56	630.89	573.31	57.58	10.956	
8,000.00	7,493.08	7,731.64	7,572.88	30.11	28.87	136.89	-339.82	1,272.41	724.84	667.12	57.72	12.558	
8,100.00	7,499.70	8,992.70	8,289.00	30.38	32.68	179.19	-1,144.30	1,411.46	789.38	757.23	32.15	24.557	
8,125.95	7,499.99	9,018.65	8,289.00	30.45	32.74	179.19	-1,170.25	1,411.57	789.08	756.74	32.34	24.397	
8,125.95	7,499.99	9,018.65	8,289.00	30.45	32.74	179.19	-1,170.25	1,411.57	789.08	756.74	32.34	24.397	
8,200.00	7,499.99	9,092.70	8,289.00	30.65	32.92	179.18	-1,244.30	1,411.90	789.08	756.16	32.92	23.968	
8,300.00	7,499.99	9,192.70	8,289.00	30.94	33.18	179.18	-1,344.30	1,412.34	789.08	755.33	33.75	23.378	
8,400.00	7,499.99	9,292.70	8,289.00	31.24	33.46	179.18	-1,444.30	1,412.79	789.08	754.45	34.64	22.782	
8,500.00	7,499.99	9,392.70	8,289.00	31.56	33.75	179.18	-1,544.30	1,413.23	789.08	753.52	35.57	22.185	
8,600.00	7,500.00	9,492.70	8,289.00	31.88	34.04	179.18	-1,644.29	1,413.67	789.08	752.54	36.54	21.594	
8,700.00	7,500.00	9,592.70	8,289.00	32.22	34.36	179.18	-1,744.29	1,414.11	789.08	751.53	37.56	21.010	
8,800.00	7,500.00	9,692.70	8,289.00	32.58	34.68	179.18	-1,844.29	1,414.56	789.08	750.48	38.61	20.438	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,500.00	9,792.70	8,289.00	32.94	35.02	179.18	-1,944.29	1,415.00	789.09	749.39	39.70	19.879	
9,000.00	7,500.00	9,892.70	8,289.00	33.32	35.37	179.18	-2,044.29	1,415.44	789.09	748.27	40.81	19.334	
9,100.00	7,500.00	9,992.70	8,289.00	33.71	35.73	179.18	-2,144.29	1,415.89	789.09	747.13	41.96	18.806	
9,200.00	7,500.00	10,092.70	8,289.00	34.11	36.10	179.17	-2,244.29	1,416.33	789.09	745.95	43.13	18.294	
9,300.00	7,500.00	10,192.70	8,289.00	34.52	36.48	179.17	-2,344.29	1,416.77	789.09	744.75	44.33	17.800	
9,400.00	7,500.00	10,292.70	8,289.00	34.94	36.87	179.17	-2,444.29	1,417.22	789.09	743.53	45.55	17.323	
9,500.00	7,500.00	10,392.70	8,289.00	35.37	37.28	179.17	-2,544.29	1,417.66	789.09	742.29	46.79	16.863	
9,600.00	7,500.00	10,492.70	8,289.00	35.81	37.69	179.17	-2,644.28	1,418.10	789.09	741.03	48.05	16.421	
9,700.00	7,500.00	10,592.70	8,289.00	36.26	38.11	179.17	-2,744.28	1,418.55	789.09	739.75	49.33	15.995	
9,800.00	7,500.00	10,692.70	8,289.00	36.73	38.55	179.17	-2,844.28	1,418.99	789.09	738.46	50.63	15.586	
9,900.00	7,500.00	10,792.70	8,289.00	37.20	38.99	179.17	-2,944.28	1,419.43	789.09	737.15	51.94	15.193	
10,000.00	7,500.00	10,892.70	8,289.00	37.68	39.45	179.17	-3,044.28	1,419.87	789.09	735.82	53.26	14.815	
10,100.00	7,500.00	10,992.70	8,289.00	38.17	39.91	179.16	-3,144.28	1,420.32	789.09	734.49	54.60	14.452	
10,200.00	7,500.00	11,092.70	8,289.00	38.66	40.38	179.16	-3,244.28	1,420.76	789.09	733.14	55.95	14.104	
10,300.00	7,500.00	11,192.70	8,289.00	39.17	40.86	179.16	-3,344.28	1,421.20	789.09	731.78	57.31	13.769	
10,400.00	7,500.00	11,292.70	8,289.00	39.68	41.34	179.16	-3,444.28	1,421.65	789.09	730.41	58.68	13.448	
10,500.00	7,500.00	11,392.70	8,289.00	40.20	41.84	179.16	-3,544.28	1,422.09	789.09	729.03	60.06	13.138	
10,600.00	7,500.00	11,492.70	8,289.00	40.73	42.34	179.16	-3,644.28	1,422.53	789.09	727.64	61.45	12.841	
10,700.00	7,500.00	11,592.70	8,289.00	41.26	42.85	179.16	-3,744.27	1,422.98	789.09	726.24	62.85	12.556	
10,800.00	7,500.00	11,692.70	8,289.00	41.80	43.37	179.16	-3,844.27	1,423.42	789.09	724.83	64.25	12.281	
10,900.00	7,500.00	11,792.70	8,289.00	42.35	43.89	179.16	-3,944.27	1,423.86	789.09	723.42	65.67	12.016	
11,000.00	7,500.00	11,892.70	8,289.00	42.91	44.42	179.16	-4,044.27	1,424.30	789.09	722.00	67.09	11.762	
11,100.00	7,500.00	11,992.70	8,289.00	43.47	44.96	179.15	-4,144.27	1,424.75	789.09	720.57	68.51	11.517	
11,200.00	7,500.00	12,092.70	8,289.00	44.03	45.51	179.15	-4,244.27	1,425.19	789.09	719.14	69.95	11.281	
11,300.00	7,500.00	12,192.70	8,289.00	44.61	46.06	179.15	-4,344.27	1,425.63	789.09	717.70	71.39	11.054	
11,400.00	7,500.00	12,292.70	8,289.00	45.18	46.61	179.15	-4,444.27	1,426.08	789.09	716.26	72.83	10.835	
11,500.00	7,500.00	12,392.70	8,289.00	45.77	47.17	179.15	-4,544.27	1,426.52	789.09	714.81	74.28	10.623	
11,581.32	7,500.00	12,474.01	8,289.00	46.24	47.63	179.15	-4,625.58	1,426.88	789.09	713.62	75.46	10.457	
11,600.00	7,500.00	12,492.70	8,289.00	46.35	47.74	179.13	-4,644.26	1,426.96	789.09	713.35	75.74	10.418	
11,650.00	7,500.00	12,542.62	8,289.00	46.65	48.03	178.94	-4,694.18	1,427.18	789.13	712.58	76.56	10.308	
11,700.00	7,500.00	12,592.29	8,289.00	46.96	48.31	178.54	-4,743.85	1,427.40	789.26	711.79	77.47	10.188	
11,750.00	7,500.00	12,641.52	8,289.00	47.27	48.59	177.94	-4,793.09	1,427.62	789.53	711.04	78.49	10.059	
11,800.00	7,500.00	12,690.26	8,289.00	47.59	48.87	177.16	-4,841.82	1,427.84	790.04	710.44	79.60	9.925	
11,850.00	7,500.00	12,742.75	8,289.00	47.91	49.18	176.27	-4,894.23	1,430.49	790.77	710.05	80.73	9.796	
11,900.00	7,500.00	12,796.71	8,289.00	48.23	49.51	175.46	-4,947.66	1,437.91	791.59	709.81	81.78	9.679	
11,950.00	7,500.00	12,852.05	8,289.00	48.56	49.85	174.75	-5,001.55	1,450.40	792.43	709.67	82.76	9.575	
12,000.00	7,500.00	12,908.62	8,289.00	48.88	50.21	174.15	-5,055.24	1,468.18	793.22	709.57	83.65	9.483	
12,050.00	7,500.00	12,966.27	8,289.00	49.20	50.57	173.66	-5,108.00	1,491.35	793.91	709.47	84.44	9.402	
12,100.00	7,500.00	13,024.77	8,289.00	49.52	50.94	173.31	-5,159.06	1,519.85	794.45	709.31	85.14	9.331	
12,150.00	7,500.00	13,083.86	8,289.00	49.83	51.30	173.08	-5,207.61	1,553.49	794.79	709.05	85.74	9.270	
12,200.00	7,500.00	13,143.27	8,289.00	50.14	51.66	173.00	-5,252.91	1,591.89	794.92	708.65	86.27	9.214	
12,250.00	7,500.00	13,202.70	8,289.00	50.44	52.00	173.06	-5,294.26	1,634.55	794.83	708.09	86.74	9.163	
12,300.00	7,500.00	13,261.86	8,289.00	50.74	52.33	173.26	-5,331.09	1,680.82	794.51	707.33	87.18	9.113	
12,350.00	7,500.00	13,320.47	8,289.00	51.02	52.62	173.60	-5,362.98	1,729.97	794.01	706.39	87.62	9.062	
12,400.00	7,500.00	13,378.27	8,289.00	51.30	52.90	174.06	-5,389.65	1,781.22	793.34	705.26	88.08	9.007	
12,450.00	7,500.00	13,435.03	8,289.00	51.56	53.14	174.65	-5,410.99	1,833.79	792.56	703.98	88.58	8.947	
12,500.00	7,500.00	13,490.57	8,289.00	51.81	53.35	175.34	-5,427.05	1,886.94	791.72	702.57	89.15	8.881	
12,550.00	7,500.00	13,544.75	8,289.00	52.05	53.53	176.13	-5,437.98	1,939.99	790.90	701.11	89.79	8.808	
12,600.00	7,500.00	13,597.48	8,289.00	52.27	53.68	177.01	-5,444.04	1,992.36	790.15	699.63	90.52	8.729	
12,650.00	7,500.00	13,648.70	8,289.00	52.48	53.80	177.96	-5,445.57	2,043.53	789.54	698.22	91.32	8.646	
12,700.00	7,500.00	13,698.38	8,289.00	52.67	53.89	178.97	-5,442.93	2,093.13	789.14	696.95	92.19	8.560	
12,748.24	7,500.00	13,744.86	8,289.00	52.84	53.95	-180.00	-5,436.80	2,139.19	789.00	695.90	93.09	8.475	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,750.00	7,500.00	13,746.53	8,289.00	52.84	53.95	-179.96	-5,436.52	2,140.84	789.00	695.87	93.13	8.472	
12,800.00	7,500.00	13,793.17	8,289.00	53.00	53.99	-178.85	-5,426.73	2,186.43	789.18	695.06	94.12	8.385	
12,850.00	7,500.00	13,838.37	8,289.00	53.14	54.01	-177.71	-5,413.94	2,229.77	789.72	694.57	95.15	8.300	
12,900.00	7,500.00	13,882.16	8,289.00	53.27	54.02	-176.53	-5,398.51	2,270.74	790.65	694.44	96.21	8.218	
12,950.00	7,500.00	13,924.63	8,289.00	53.37	54.00	-175.33	-5,380.77	2,309.32	792.02	694.73	97.29	8.141	
13,000.00	7,500.00	13,965.84	8,289.00	53.46	53.97	-174.12	-5,361.02	2,345.48	793.83	695.45	98.38	8.069	
13,050.00	7,500.00	14,005.88	8,289.00	53.53	53.94	-172.89	-5,339.54	2,379.26	796.10	696.62	99.48	8.003	
13,100.00	7,500.00	14,044.81	8,289.00	53.58	53.88	-171.66	-5,316.56	2,410.67	798.82	698.25	100.57	7.943	
13,150.00	7,500.00	14,082.71	8,289.00	53.62	53.82	-170.42	-5,292.30	2,439.79	802.00	700.34	101.66	7.889	
13,200.00	7,500.00	14,119.65	8,289.00	53.63	53.76	-169.19	-5,266.95	2,466.66	805.63	702.89	102.74	7.842	
13,250.00	7,500.00	14,150.00	8,289.00	53.63	53.70	-168.11	-5,244.94	2,487.55	809.70	705.82	103.87	7.795	
13,300.00	7,500.00	14,190.94	8,289.00	53.62	53.61	-166.74	-5,213.65	2,513.94	814.11	709.26	104.85	7.765	
13,350.00	7,500.00	14,225.41	8,289.00	53.58	53.53	-165.53	-5,185.98	2,534.48	818.92	713.04	105.88	7.734	
13,400.00	7,500.00	14,259.18	8,289.00	53.54	53.44	-164.34	-5,157.79	2,553.06	824.07	717.18	106.89	7.710	
13,450.00	7,500.00	14,292.29	8,289.00	53.48	53.35	-163.16	-5,129.18	2,569.73	829.51	721.63	107.88	7.690	
13,500.00	7,500.00	14,324.81	8,289.00	53.40	53.27	-162.01	-5,100.25	2,584.56	835.21	726.37	108.84	7.674	
13,550.00	7,500.00	14,350.00	8,289.00	53.32	53.20	-161.04	-5,077.31	2,594.97	841.17	731.35	109.83	7.659	
13,600.00	7,500.00	14,388.21	8,289.00	53.22	53.09	-159.79	-5,041.74	2,608.93	847.23	736.56	110.68	7.655	
13,650.00	7,500.00	14,419.19	8,289.00	53.12	53.00	-158.73	-5,012.32	2,618.59	853.47	741.92	111.55	7.651	
13,700.00	7,500.00	14,450.00	8,289.00	53.00	52.91	-157.69	-4,982.60	2,626.70	859.79	747.40	112.38	7.650	
13,750.00	7,500.00	14,479.87	8,289.00	52.88	52.82	-156.70	-4,953.43	2,633.12	866.16	752.97	113.18	7.653	
13,800.00	7,500.00	14,509.64	8,289.00	52.75	52.73	-155.74	-4,924.07	2,638.08	872.53	758.59	113.94	7.658	
13,850.00	7,500.00	14,542.30	8,289.00	52.61	52.63	-154.77	-4,891.65	2,641.95	878.85	764.20	114.64	7.666	
13,900.00	7,500.00	14,582.80	8,289.00	52.48	52.51	-153.79	-4,851.32	2,645.71	884.62	769.32	115.30	7.673	
13,950.00	7,500.00	14,623.51	8,289.00	52.33	52.40	-152.96	-4,810.72	2,648.69	889.63	773.71	115.92	7.675	
14,000.00	7,500.00	14,664.40	8,289.00	52.19	52.28	-152.28	-4,769.90	2,650.87	893.80	777.28	116.52	7.671	
14,050.00	7,500.00	14,705.42	8,289.00	52.05	52.17	-151.75	-4,728.90	2,652.24	897.09	779.99	117.10	7.661	
14,100.00	7,500.00	14,746.54	8,289.00	51.90	52.05	-151.38	-4,687.78	2,652.78	899.45	781.79	117.66	7.645	
14,105.32	7,500.00	14,750.92	8,289.00	51.89	52.04	-151.35	-4,683.41	2,652.79	899.65	781.93	117.72	7.642	
14,200.00	7,500.00	14,843.06	8,289.00	51.63	51.79	-150.98	-4,591.26	2,652.41	902.52	783.74	118.78	7.598	
14,300.00	7,500.00	14,943.01	8,289.00	51.35	51.53	-150.79	-4,491.31	2,651.98	903.94	784.04	119.91	7.539	
14,333.98	7,500.00	14,976.99	8,289.00	51.26	51.44	-150.78	-4,457.33	2,651.83	904.04	783.75	120.29	7.516	
14,400.00	7,500.00	15,043.01	8,289.00	51.09	51.28	-150.78	-4,391.31	2,651.54	904.04	783.00	121.04	7.469	
14,500.00	7,500.00	15,143.01	8,289.00	50.84	51.03	-150.78	-4,291.31	2,651.10	904.04	781.86	122.18	7.399	
14,600.00	7,500.00	15,243.01	8,289.00	50.59	50.80	-150.78	-4,191.31	2,650.66	904.04	780.70	123.34	7.330	
14,700.00	7,500.00	15,343.01	8,289.00	50.35	50.57	-150.78	-4,091.31	2,650.22	904.04	779.54	124.50	7.261	
14,800.00	7,500.00	15,443.01	8,289.00	50.12	50.35	-150.78	-3,991.32	2,649.78	904.03	778.36	125.67	7.194	
14,900.00	7,500.00	15,543.01	8,289.00	49.90	50.14	-150.78	-3,891.32	2,649.34	904.03	777.18	126.85	7.127	
15,000.00	7,500.00	15,643.01	8,289.00	49.69	49.94	-150.78	-3,791.32	2,648.90	904.03	775.99	128.04	7.061	
15,100.00	7,500.00	15,743.01	8,289.00	49.48	49.74	-150.78	-3,691.32	2,648.46	904.03	774.79	129.23	6.995	
15,200.00	7,500.00	15,843.01	8,289.00	49.28	49.56	-150.78	-3,591.32	2,648.03	904.03	773.59	130.44	6.931	
15,300.00	7,500.00	15,943.01	8,289.00	49.09	49.39	-150.78	-3,491.32	2,647.59	904.03	772.38	131.65	6.867	
15,400.00	7,500.00	16,043.01	8,289.00	48.91	49.22	-150.78	-3,391.32	2,647.15	904.02	771.16	132.87	6.804	
15,500.00	7,500.00	16,143.01	8,289.00	48.74	49.07	-150.78	-3,291.32	2,646.71	904.02	769.93	134.09	6.742	
15,600.00	7,500.00	16,243.01	8,289.00	48.57	48.92	-150.78	-3,191.32	2,646.27	904.02	768.70	135.33	6.680	
15,700.00	7,500.00	16,343.01	8,289.00	48.42	48.78	-150.78	-3,091.32	2,645.83	904.02	767.45	136.56	6.620	
15,800.00	7,500.00	16,443.01	8,289.00	48.27	48.66	-150.78	-2,991.32	2,645.39	904.02	766.21	137.81	6.560	
15,900.00	7,500.00	16,543.01	8,289.00	48.13	48.54	-150.78	-2,891.33	2,644.95	904.02	764.95	139.06	6.501	
16,000.00	7,500.00	16,643.01	8,289.00	48.01	48.44	-150.78	-2,791.33	2,644.52	904.01	763.69	140.32	6.442	
16,100.00	7,500.00	16,743.01	8,289.00	47.89	48.34	-150.78	-2,691.33	2,644.08	904.01	762.43	141.59	6.385	
16,200.00	7,500.00	16,843.01	8,289.00	47.78	48.26	-150.78	-2,591.33	2,643.64	904.01	761.16	142.86	6.328	
16,300.00	7,500.00	16,943.01	8,289.00	47.68	48.18	-150.78	-2,491.33	2,643.20	904.01	759.88	144.13	6.272	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 3H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,400.00	7,500.00	17,043.01	8,289.00	47.59	48.12	-150.78	-2,391.33	2,642.76	904.01	758.60	145.41	6.217	
16,500.00	7,500.00	17,143.01	8,289.00	47.51	48.07	-150.78	-2,291.33	2,642.32	904.01	757.31	146.70	6.162	
16,600.00	7,500.00	17,243.01	8,289.00	47.44	48.03	-150.78	-2,191.33	2,641.88	904.00	756.01	147.99	6.108	
16,700.00	7,500.00	17,343.01	8,289.00	47.39	48.01	-150.78	-2,091.33	2,641.44	904.00	754.71	149.29	6.055	
16,800.00	7,500.00	17,443.01	8,289.00	47.34	47.99	-150.78	-1,991.33	2,641.01	904.00	753.41	150.59	6.003	
16,900.00	7,500.00	17,543.01	8,289.00	47.31	47.99	-150.78	-1,891.34	2,640.57	904.00	752.10	151.90	5.951	
17,000.00	7,500.00	17,643.01	8,289.00	47.29	48.00	-150.78	-1,791.34	2,640.13	904.00	750.79	153.21	5.900	
17,100.00	7,500.00	17,743.01	8,289.00	47.28	48.02	-150.78	-1,691.34	2,639.69	904.00	749.47	154.53	5.850	
17,200.00	7,500.00	17,843.01	8,289.00	47.28	48.06	-150.78	-1,591.34	2,639.25	903.99	748.14	155.85	5.800	
17,300.00	7,500.00	17,943.01	8,289.00	47.30	48.11	-150.78	-1,491.34	2,638.81	903.99	746.82	157.18	5.751	
17,400.00	7,500.00	18,043.01	8,289.00	47.33	48.17	-150.79	-1,391.34	2,638.37	903.99	745.49	158.51	5.703	
17,500.00	7,500.00	18,143.01	8,289.00	47.37	48.24	-150.79	-1,291.34	2,637.93	903.99	744.15	159.84	5.656	
17,600.00	7,500.00	18,243.01	8,289.00	47.43	48.33	-150.79	-1,191.34	2,637.50	903.99	742.81	161.18	5.609	
17,700.00	7,500.00	18,343.01	8,289.00	47.50	48.44	-150.79	-1,091.34	2,637.06	903.99	741.47	162.52	5.562	
17,800.00	7,500.00	18,443.01	8,289.00	47.59	48.55	-150.79	-991.34	2,636.62	903.98	740.12	163.87	5.517	
17,900.00	7,500.00	18,543.01	8,289.00	47.69	48.68	-150.79	-891.34	2,636.18	903.98	738.77	165.22	5.472	
18,000.00	7,500.00	18,643.01	8,289.00	47.81	48.83	-150.79	-791.35	2,635.74	903.98	737.41	166.57	5.427	
18,100.00	7,500.00	18,743.01	8,289.00	47.94	48.99	-150.79	-691.35	2,635.30	903.98	736.05	167.93	5.383	
18,200.00	7,500.00	18,843.01	8,289.00	48.08	49.16	-150.79	-591.35	2,634.86	903.98	734.69	169.29	5.340	
18,300.00	7,500.00	18,943.01	8,289.00	48.25	49.35	-150.79	-491.35	2,634.42	903.98	733.32	170.65	5.297	
18,400.00	7,500.00	19,043.01	8,289.00	48.42	49.54	-150.79	-391.35	2,633.99	903.97	732.10	171.87	5.260	
18,458.32	7,500.00	19,101.33	8,289.00	48.53	50.05	-150.79	-333.03	2,633.73	903.97	731.50	172.47	5.241	
18,461.64	7,500.00	19,101.33	8,289.00	48.54	50.05	-150.79	-333.03	2,633.73	903.98	731.51	172.47	5.241	
18,462.14	7,500.00	19,101.33	8,289.00	49.47	50.05	-150.79	-333.03	2,633.73	903.98	731.51	172.48	5.241	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	-90.65	-0.91	-79.97	79.98				
100.00	100.00	101.00	101.00	0.28	0.28	-90.65	-0.91	-79.97	79.98	79.42	0.56	143.936	
200.00	200.00	201.00	201.00	0.63	0.64	-90.65	-0.91	-79.97	79.98	78.70	1.27	62.845	
300.00	300.00	301.00	301.00	0.99	1.00	-90.65	-0.91	-79.97	79.98	77.99	1.99	40.198	
400.00	400.00	401.00	401.00	1.35	1.36	-90.65	-0.91	-79.97	79.98	77.27	2.71	29.550	
500.00	500.00	501.00	501.00	1.71	1.71	-90.65	-0.91	-79.97	79.98	76.55	3.42	23.361	CC, ES
600.00	599.98	600.98	600.98	2.06	2.07	165.34	-0.91	-79.97	81.66	77.53	4.13	19.772	
700.00	699.84	700.84	700.84	2.40	2.43	166.19	-0.91	-79.97	86.74	81.90	4.83	17.945	
750.00	749.68	750.68	750.68	2.58	2.61	166.76	-0.91	-79.97	90.55	85.36	5.19	17.453	
800.00	799.49	800.49	800.49	2.75	2.79	167.36	-0.91	-79.97	94.80	89.26	5.54	17.108	
900.00	899.11	900.11	900.11	3.10	3.14	168.42	-0.91	-79.97	103.32	97.07	6.25	16.539	
1,000.00	998.73	999.73	999.73	3.46	3.50	169.32	-0.91	-79.97	111.87	104.92	6.96	16.083	
1,001.27	1,000.00	1,001.00	1,001.00	3.46	3.51	169.33	-0.91	-79.97	111.98	105.02	6.96	16.078	
1,100.00	1,098.18	1,099.18	1,099.18	3.81	3.86	168.26	-0.91	-79.97	122.07	114.40	7.67	15.919	
1,200.00	1,197.22	1,198.22	1,198.22	4.18	4.21	168.31	-0.91	-79.97	135.63	127.25	8.38	16.177	
1,300.00	1,295.71	1,296.71	1,296.71	4.54	4.57	168.87	-0.91	-79.97	152.59	143.49	9.10	16.767	
1,400.00	1,393.53	1,394.53	1,394.53	4.91	4.92	169.64	-0.91	-79.97	172.95	163.13	9.82	17.618	
1,414.82	1,407.97	1,408.97	1,408.97	4.97	4.97	169.76	-0.91	-79.97	176.26	166.33	9.93	17.757	
1,500.00	1,490.88	1,491.88	1,491.88	5.28	5.27	170.78	-0.91	-79.97	195.51	184.98	10.53	18.566	
1,600.00	1,588.22	1,589.22	1,589.22	5.66	5.61	171.74	-0.91	-79.97	218.17	206.93	11.24	19.406	
1,700.00	1,685.56	1,686.56	1,686.56	6.04	5.96	172.52	-0.91	-79.97	240.88	228.93	11.96	20.146	
1,800.00	1,782.90	1,783.90	1,783.90	6.42	6.31	173.17	-0.91	-79.97	263.63	250.96	12.67	20.801	
1,900.00	1,880.24	1,881.24	1,881.24	6.80	6.66	173.72	-0.91	-79.97	286.40	273.01	13.39	21.385	
2,000.00	1,977.58	1,978.58	1,978.58	7.18	7.01	174.18	-0.91	-79.97	309.20	295.09	14.11	21.909	
2,100.00	2,074.91	2,085.82	2,085.81	7.57	7.39	174.61	-1.28	-78.74	330.87	316.00	14.88	22.243	
2,200.00	2,172.25	2,197.40	2,197.25	7.95	7.76	174.96	-2.85	-73.45	348.87	333.23	15.63	22.314	
2,300.00	2,269.59	2,310.42	2,309.81	8.34	8.15	175.24	-5.69	-63.86	363.01	346.62	16.38	22.155	
2,400.00	2,366.93	2,424.55	2,422.99	8.73	8.54	175.48	-9.85	-49.87	373.22	356.10	17.12	21.797	
2,500.00	2,464.27	2,539.43	2,536.25	9.11	8.94	175.68	-15.32	-31.43	379.46	361.61	17.85	21.263	
2,600.00	2,561.61	2,654.72	2,649.03	9.50	9.34	175.85	-22.11	-8.56	381.69	363.14	18.55	20.577	
2,700.00	2,658.95	2,757.52	2,749.01	9.89	9.70	175.98	-28.93	14.40	381.24	361.96	19.28	19.777	
2,800.00	2,756.29	2,857.51	2,846.23	10.28	10.06	176.12	-35.58	36.80	380.72	360.71	20.02	19.021	
2,900.00	2,853.63	2,957.51	2,943.46	10.67	10.41	176.25	-42.23	59.21	380.21	359.45	20.76	18.316	
3,000.00	2,950.97	3,057.50	3,040.68	11.06	10.78	176.38	-48.88	81.61	379.70	358.20	21.50	17.657	
3,100.00	3,048.31	3,157.50	3,137.91	11.45	11.14	176.51	-55.54	104.02	379.19	356.94	22.25	17.040	
3,200.00	3,145.64	3,257.49	3,235.13	11.84	11.50	176.65	-62.19	126.42	378.69	355.68	23.00	16.462	
3,300.00	3,242.98	3,357.49	3,332.36	12.23	11.87	176.78	-68.84	148.82	378.18	354.42	23.76	15.918	
3,400.00	3,340.32	3,457.48	3,429.58	12.62	12.24	176.91	-75.49	171.23	377.68	353.17	24.51	15.407	
3,500.00	3,437.66	3,557.48	3,526.81	13.01	12.61	177.05	-82.14	193.63	377.18	351.91	25.27	14.925	
3,600.00	3,535.00	3,657.47	3,624.03	13.40	12.98	177.18	-88.80	216.04	376.68	350.65	26.03	14.470	
3,700.00	3,632.34	3,757.47	3,721.26	13.79	13.35	177.32	-95.45	238.44	376.19	349.39	26.79	14.041	
3,800.00	3,729.68	3,857.46	3,818.48	14.19	13.73	177.45	-102.10	260.85	375.69	348.14	27.56	13.634	
3,900.00	3,827.02	3,957.46	3,915.71	14.58	14.10	177.59	-108.75	283.25	375.20	346.88	28.32	13.249	
4,000.00	3,924.36	4,057.45	4,012.94	14.97	14.48	177.72	-115.40	305.65	374.71	345.63	29.09	12.883	
4,100.00	4,021.70	4,157.45	4,110.16	15.36	14.86	177.86	-122.06	328.06	374.23	344.37	29.85	12.536	
4,200.00	4,119.04	4,257.44	4,207.39	15.75	15.24	177.99	-128.71	350.46	373.74	343.12	30.62	12.206	
4,300.00	4,216.37	4,357.44	4,304.61	16.15	15.62	178.13	-135.36	372.87	373.26	341.87	31.39	11.892	
4,400.00	4,313.71	4,457.43	4,401.84	16.54	16.00	178.27	-142.01	395.27	372.78	340.62	32.16	11.592	
4,500.00	4,411.05	4,557.43	4,499.06	16.93	16.38	178.41	-148.66	417.67	372.30	339.37	32.93	11.306	
4,600.00	4,508.39	4,657.42	4,596.29	17.32	16.76	178.54	-155.32	440.08	371.82	338.12	33.70	11.033	
4,700.00	4,605.73	4,757.42	4,693.51	17.72	17.14	178.68	-161.97	462.48	371.35	336.88	34.47	10.773	
4,800.00	4,703.07	4,857.41	4,790.74	18.11	17.52	178.82	-168.62	484.89	370.88	335.63	35.24	10.523	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,800.41	4,957.41	4,887.96	18.50	17.91	178.96	-175.27	507.29	370.41	334.39	36.02	10.284	
5,000.00	4,897.75	5,057.40	4,985.19	18.90	18.29	179.10	-181.92	529.70	369.94	333.15	36.79	10.055	
5,100.00	4,995.09	5,157.40	5,082.41	19.29	18.67	179.24	-188.58	552.10	369.47	331.91	37.56	9.836	
5,200.00	5,092.43	5,257.39	5,179.64	19.68	19.06	179.38	-195.23	574.50	369.01	330.67	38.34	9.625	
5,300.00	5,189.77	5,357.39	5,276.87	20.07	19.44	179.52	-201.88	596.91	368.55	329.43	39.11	9.422	
5,400.00	5,287.10	5,457.38	5,374.09	20.47	19.83	179.66	-208.53	619.31	368.09	328.20	39.89	9.227	
5,500.00	5,384.44	5,557.38	5,471.32	20.86	20.22	179.80	-215.18	641.72	367.63	326.96	40.67	9.040	
5,600.00	5,481.78	5,657.37	5,568.54	21.25	20.60	179.94	-221.84	664.12	367.18	325.73	41.44	8.860	
5,700.00	5,579.12	5,757.36	5,665.77	21.65	20.99	-179.91	-228.49	686.53	366.72	324.50	42.22	8.686	
5,800.00	5,676.46	5,857.36	5,762.99	22.04	21.38	-179.77	-235.14	708.93	366.27	323.28	43.00	8.519	
5,900.00	5,773.80	5,957.35	5,860.22	22.43	21.76	-179.63	-241.79	731.33	365.83	322.05	43.77	8.357	
6,000.00	5,871.14	6,057.35	5,957.44	22.83	22.15	-179.49	-248.44	753.74	365.38	320.83	44.55	8.201	
6,100.00	5,968.48	6,157.34	6,054.67	23.22	22.54	-179.34	-255.09	776.14	364.94	319.61	45.33	8.051	
6,200.00	6,065.82	6,257.34	6,151.89	23.61	22.93	-179.20	-261.75	798.55	364.50	318.39	46.11	7.905	
6,300.00	6,163.16	6,357.33	6,249.12	24.01	23.31	-179.06	-268.40	820.95	364.06	317.17	46.89	7.765	
6,400.00	6,260.50	6,457.33	6,346.34	24.40	23.70	-178.91	-275.05	843.35	363.62	315.96	47.66	7.629	
6,500.00	6,357.83	6,557.32	6,443.57	24.79	24.09	-178.77	-281.70	865.76	363.19	314.74	48.44	7.497	
6,600.00	6,455.17	6,657.32	6,540.80	25.19	24.48	-178.62	-288.35	888.16	362.76	313.53	49.22	7.370	
6,700.00	6,552.51	6,757.31	6,638.02	25.58	24.87	-178.48	-295.01	910.57	362.33	312.32	50.00	7.246	
6,800.00	6,649.85	6,857.31	6,735.25	25.98	25.26	-178.33	-301.66	932.97	361.90	311.12	50.78	7.127	
6,900.00	6,747.19	6,957.30	6,832.47	26.37	25.65	-178.19	-308.31	955.38	361.47	309.91	51.56	7.011	
7,000.00	6,844.53	7,057.30	6,929.70	26.76	26.04	-178.04	-314.96	977.78	361.05	308.71	52.34	6.898	
7,100.00	6,941.87	7,157.29	7,026.92	27.16	26.43	-177.89	-321.61	1,000.18	360.63	307.51	53.12	6.789	
7,115.01	6,956.48	7,172.30	7,041.52	27.22	26.49	-177.87	-322.61	1,003.55	360.57	307.33	53.24	6.773	
7,123.09	6,964.34	7,180.38	7,049.37	27.25	26.52	178.89	-323.15	1,005.36	360.55	307.25	53.30	6.765	
7,150.00	6,990.45	7,207.26	7,075.51	27.35	26.62	169.16	-324.94	1,011.38	360.74	307.23	53.51	6.742	
7,200.00	7,038.53	7,256.93	7,123.80	27.55	26.82	155.63	-328.24	1,022.51	362.14	308.25	53.89	6.720	SF
7,250.00	7,085.72	7,300.00	7,165.73	27.75	26.99	146.93	-331.04	1,031.94	365.35	311.07	54.27	6.732	
7,300.00	7,131.67	7,343.65	7,208.37	27.94	27.15	141.59	-333.70	1,040.90	371.04	316.41	54.63	6.792	
7,350.00	7,176.02	7,384.72	7,248.61	28.13	27.31	138.29	-336.03	1,048.75	379.54	324.57	54.97	6.905	
7,400.00	7,218.44	7,424.04	7,287.25	28.32	27.46	136.25	-338.11	1,055.75	391.11	335.84	55.28	7.075	
7,450.00	7,258.60	7,461.28	7,323.93	28.50	27.60	134.91	-339.94	1,061.91	406.03	350.46	55.56	7.308	
7,500.00	7,296.21	7,500.00	7,362.15	28.67	27.75	134.20	-341.70	1,067.83	424.47	368.62	55.85	7.600	
7,550.00	7,330.97	7,528.33	7,390.17	28.84	27.85	132.90	-342.89	1,071.85	446.47	390.42	56.05	7.965	
7,600.00	7,362.62	7,557.63	7,419.19	28.99	27.96	131.70	-344.04	1,075.73	472.05	415.79	56.26	8.391	
7,650.00	7,390.91	7,583.82	7,445.16	29.15	28.05	130.11	-345.00	1,078.95	501.04	444.61	56.43	8.879	
7,700.00	7,415.64	7,606.73	7,467.91	29.30	28.14	127.95	-345.78	1,081.59	533.22	476.63	56.58	9.424	
7,750.00	7,436.62	7,626.21	7,487.26	29.44	28.21	125.04	-346.41	1,083.69	568.26	511.56	56.70	10.022	
7,800.00	7,453.68	7,642.15	7,503.12	29.57	28.27	121.20	-346.89	1,085.31	605.82	549.03	56.80	10.667	
7,825.96	7,460.95	7,649.01	7,509.93	29.64	28.29	118.77	-347.09	1,085.99	626.18	569.35	56.83	11.018	
7,900.00	7,477.79	7,665.10	7,525.95	29.84	28.35	116.27	-347.54	1,087.51	686.86	629.95	56.91	12.068	
8,000.00	7,493.08	7,680.29	7,541.07	30.11	28.40	110.47	-347.94	1,088.86	773.65	716.67	56.98	13.577	
8,100.00	7,499.70	7,688.01	7,548.77	30.38	28.43	101.35	-348.14	1,089.52	864.35	807.34	57.01	15.162	
8,125.95	7,499.99	7,688.81	7,549.56	30.45	28.43	98.39	-348.16	1,089.59	888.34	831.33	57.01	15.583	
8,200.00	7,499.99	7,690.37	7,551.11	30.65	28.44	98.65	-348.20	1,089.72	957.38	900.38	57.00	16.795	
8,300.00	7,499.99	7,700.00	7,560.71	30.94	28.47	100.30	-348.43	1,090.50	1,051.74	994.68	57.06	18.431	
8,400.00	7,499.99	7,700.00	7,560.71	31.24	28.47	100.30	-348.43	1,090.50	1,147.01	1,089.96	57.05	20.105	
8,500.00	7,499.99	7,700.00	7,560.71	31.56	28.47	100.30	-348.43	1,090.50	1,243.02	1,185.98	57.04	21.791	
8,600.00	7,500.00	7,700.00	7,560.71	31.88	28.47	100.30	-348.43	1,090.50	1,339.61	1,282.57	57.04	23.486	
8,700.00	7,500.00	7,700.00	7,560.71	32.22	28.47	100.30	-348.43	1,090.50	1,436.67	1,379.63	57.04	25.188	
8,800.00	7,500.00	7,700.00	7,560.71	32.58	28.47	100.30	-348.43	1,090.50	1,534.11	1,477.07	57.04	26.896	
8,900.00	7,500.00	7,700.00	7,560.71	32.94	28.47	100.30	-348.43	1,090.50	1,631.86	1,574.81	57.04	28.607	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	7,700.00	7,560.71	33.32	28.47	100.30	-348.43	1,090.50	1,729.86	1,672.81	57.05	30.320	
9,100.00	7,500.00	7,700.00	7,560.71	33.71	28.47	100.30	-348.43	1,090.50	1,828.08	1,771.02	57.06	32.036	
9,200.00	7,500.00	7,700.00	7,560.71	34.11	28.47	100.30	-348.43	1,090.50	1,926.49	1,869.41	57.07	33.754	
9,300.00	7,500.00	7,700.00	7,560.71	34.52	28.47	100.30	-348.43	1,090.50	2,025.05	1,967.96	57.09	35.472	
9,400.00	7,500.00	7,713.16	7,573.82	34.94	28.52	102.54	-348.73	1,091.53	2,123.69	2,066.50	57.19	37.135	
9,500.00	7,500.00	7,714.87	7,575.53	35.37	28.53	102.83	-348.77	1,091.66	2,222.49	2,165.27	57.22	38.845	
9,600.00	7,500.00	7,716.56	7,577.21	35.81	28.53	103.11	-348.81	1,091.78	2,321.39	2,264.15	57.24	40.553	
9,700.00	7,500.00	12,158.22	9,888.00	36.26	41.69	172.38	-2,745.63	1,110.59	2,408.28	2,353.53	54.75	43.991	
9,800.00	7,500.00	12,258.22	9,888.00	36.73	42.07	172.38	-2,845.63	1,111.03	2,408.28	2,352.31	55.97	43.028	
9,900.00	7,500.00	12,358.22	9,888.00	37.20	42.47	172.38	-2,945.63	1,111.47	2,408.28	2,351.07	57.21	42.095	
10,000.00	7,500.00	12,458.22	9,888.00	37.68	42.88	172.38	-3,045.63	1,111.91	2,408.29	2,349.82	58.47	41.190	
10,100.00	7,500.00	12,558.22	9,888.00	38.17	43.30	172.38	-3,145.63	1,112.34	2,408.29	2,348.55	59.74	40.313	
10,200.00	7,500.00	12,658.22	9,888.00	38.66	43.73	172.38	-3,245.63	1,112.78	2,408.29	2,347.27	61.02	39.464	
10,300.00	7,500.00	12,758.22	9,888.00	39.17	44.17	172.38	-3,345.63	1,113.22	2,408.29	2,345.97	62.32	38.642	
10,400.00	7,500.00	12,858.22	9,888.00	39.68	44.61	172.38	-3,445.63	1,113.66	2,408.29	2,344.66	63.63	37.847	
10,500.00	7,500.00	12,958.22	9,888.00	40.20	45.06	172.37	-3,545.63	1,114.10	2,408.30	2,343.34	64.95	37.077	
10,600.00	7,500.00	13,058.22	9,888.00	40.73	45.53	172.37	-3,645.63	1,114.54	2,408.30	2,342.01	66.29	36.332	
10,700.00	7,500.00	13,158.22	9,888.00	41.26	45.99	172.37	-3,745.63	1,114.98	2,408.30	2,340.67	67.63	35.611	
10,800.00	7,500.00	13,258.22	9,888.00	41.80	46.47	172.37	-3,845.62	1,115.41	2,408.30	2,339.32	68.98	34.913	
10,900.00	7,500.00	13,358.22	9,888.00	42.35	46.96	172.37	-3,945.62	1,115.85	2,408.31	2,337.97	70.34	34.238	
11,000.00	7,500.00	13,458.22	9,888.00	42.91	47.45	172.37	-4,045.62	1,116.29	2,408.31	2,336.60	71.71	33.584	
11,100.00	7,500.00	13,558.22	9,888.00	43.47	47.95	172.37	-4,145.62	1,116.73	2,408.31	2,335.22	73.09	32.951	
11,200.00	7,500.00	13,658.22	9,888.00	44.03	48.45	172.37	-4,245.62	1,117.17	2,408.31	2,333.84	74.47	32.339	
11,300.00	7,500.00	13,758.22	9,888.00	44.61	48.96	172.37	-4,345.62	1,117.61	2,408.32	2,332.45	75.86	31.746	
11,400.00	7,500.00	13,858.22	9,888.00	45.18	49.48	172.37	-4,445.62	1,118.05	2,408.32	2,331.06	77.26	31.171	
11,500.00	7,500.00	13,958.22	9,888.00	45.77	50.01	172.37	-4,545.62	1,118.49	2,408.32	2,329.65	78.67	30.615	
11,581.32	7,500.00	14,039.53	9,888.00	46.24	50.44	172.37	-4,626.93	1,118.84	2,408.32	2,328.51	79.81	30.175	
11,600.00	7,500.00	14,058.22	9,888.00	46.35	50.54	172.37	-4,645.62	1,118.92	2,408.35	2,328.27	80.08	30.075	
11,650.00	7,500.00	14,108.14	9,888.00	46.65	50.80	172.33	-4,695.54	1,119.14	2,408.71	2,327.89	80.81	29.805	
11,700.00	7,500.00	14,157.81	9,888.00	46.96	51.07	172.25	-4,745.20	1,119.36	2,409.47	2,327.89	81.58	29.533	
11,750.00	7,500.00	14,207.04	9,888.00	47.27	51.34	172.13	-4,794.44	1,119.58	2,410.67	2,328.29	82.38	29.261	
11,800.00	7,500.00	14,308.91	9,888.00	47.59	51.90	171.83	-4,895.88	1,127.78	2,411.80	2,328.40	83.39	28.920	
11,850.00	7,500.00	14,414.59	9,888.00	47.91	52.51	171.71	-4,998.45	1,152.74	2,412.24	2,327.98	84.26	28.628	
11,900.00	7,500.00	14,520.59	9,888.00	48.23	53.13	171.78	-5,095.99	1,193.94	2,411.96	2,326.98	84.97	28.385	
11,950.00	7,500.00	14,624.18	9,888.00	48.56	53.72	172.05	-5,183.70	1,248.84	2,410.98	2,325.42	85.55	28.181	
12,000.00	7,500.00	14,723.08	9,888.00	48.88	54.26	172.48	-5,258.42	1,313.49	2,409.39	2,323.34	86.05	28.000	
12,050.00	7,500.00	14,815.75	9,888.00	49.20	54.74	173.01	-5,318.90	1,383.61	2,407.32	2,320.81	86.51	27.826	
12,100.00	7,500.00	14,901.47	9,888.00	49.52	55.14	173.62	-5,365.55	1,455.44	2,404.92	2,317.94	86.98	27.649	
12,150.00	7,500.00	14,980.15	9,888.00	49.83	55.46	174.27	-5,399.82	1,526.22	2,402.33	2,314.84	87.49	27.460	
12,200.00	7,500.00	15,052.16	9,888.00	50.14	55.73	174.92	-5,423.57	1,594.17	2,399.70	2,311.65	88.04	27.256	
12,250.00	7,500.00	15,118.11	9,888.00	50.44	55.93	175.57	-5,438.67	1,658.33	2,397.13	2,308.48	88.65	27.039	
12,300.00	7,500.00	15,178.69	9,888.00	50.74	56.09	176.21	-5,446.82	1,718.34	2,394.74	2,305.42	89.32	26.811	
12,350.00	7,500.00	15,234.58	9,888.00	51.02	56.21	176.83	-5,449.41	1,774.15	2,392.58	2,302.55	90.03	26.576	
12,400.00	7,500.00	15,286.43	9,888.00	51.30	56.29	177.45	-5,447.56	1,825.95	2,390.73	2,299.95	90.78	26.336	
12,450.00	7,500.00	15,334.80	9,888.00	51.56	56.36	178.05	-5,442.15	1,874.01	2,389.22	2,297.66	91.56	26.095	
12,500.00	7,500.00	15,380.18	9,888.00	51.81	56.39	178.64	-5,433.88	1,918.63	2,388.09	2,295.73	92.36	25.856	
12,550.00	7,500.00	15,423.00	9,888.00	52.05	56.42	179.23	-5,423.28	1,960.10	2,387.35	2,294.17	93.18	25.620	
12,600.00	7,500.00	15,463.62	9,888.00	52.27	56.42	179.82	-5,410.74	1,998.73	2,387.02	2,293.00	94.02	25.389	
12,615.66	7,500.00	15,475.93	9,888.00	52.33	56.42	-180.00	-5,406.47	2,010.28	2,387.00	2,292.71	94.28	25.317	
12,650.00	7,500.00	15,502.32	9,888.00	52.48	56.42	-179.60	-5,396.59	2,034.75	2,387.09	2,292.23	94.86	25.163	
12,700.00	7,500.00	15,539.38	9,888.00	52.67	56.40	-179.01	-5,381.08	2,068.40	2,387.58	2,291.86	95.71	24.945	
12,750.00	7,500.00	15,575.00	9,888.00	52.84	56.38	-178.42	-5,364.40	2,099.87	2,388.46	2,291.89	96.57	24.734	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,800.00	7,500.00	15,609.37	9,888.00	53.00	56.35	-177.83	-5,346.72	2,129.34	2,389.72	2,292.30	97.42	24.530	
12,850.00	7,500.00	15,642.64	9,888.00	53.14	56.31	-177.23	-5,328.16	2,156.95	2,391.36	2,293.09	98.27	24.335	
12,900.00	7,500.00	15,674.95	9,888.00	53.27	56.27	-176.63	-5,308.82	2,182.82	2,393.34	2,294.22	99.12	24.146	
12,950.00	7,500.00	15,706.41	9,888.00	53.37	56.22	-176.03	-5,288.79	2,207.08	2,395.65	2,295.69	99.96	23.966	
13,000.00	7,500.00	15,737.11	9,888.00	53.46	56.17	-175.43	-5,268.14	2,229.80	2,398.27	2,297.47	100.80	23.792	
13,050.00	7,500.00	15,767.15	9,888.00	53.53	56.11	-174.82	-5,246.93	2,251.06	2,401.16	2,299.53	101.63	23.626	
13,100.00	7,500.00	15,800.00	9,888.00	53.58	56.05	-174.18	-5,222.65	2,273.19	2,404.31	2,301.85	102.46	23.465	
13,150.00	7,500.00	15,825.49	9,888.00	53.62	55.99	-173.62	-5,203.07	2,289.50	2,407.67	2,304.40	103.27	23.314	
13,200.00	7,500.00	15,850.00	9,888.00	53.63	55.94	-173.07	-5,183.66	2,304.47	2,411.24	2,307.17	104.07	23.170	
13,250.00	7,500.00	15,881.92	9,888.00	53.63	55.86	-172.43	-5,157.57	2,322.84	2,414.95	2,310.08	104.88	23.027	
13,300.00	7,500.00	15,909.53	9,888.00	53.62	55.80	-171.84	-5,134.30	2,337.71	2,418.81	2,313.15	105.66	22.892	
13,350.00	7,500.00	15,936.80	9,888.00	53.58	55.73	-171.26	-5,110.73	2,351.41	2,422.76	2,316.32	106.44	22.762	
13,400.00	7,500.00	15,963.75	9,888.00	53.54	55.66	-170.70	-5,086.89	2,363.98	2,426.79	2,319.59	107.20	22.637	
13,450.00	7,500.00	16,000.00	9,888.00	53.48	55.56	-170.05	-5,054.05	2,379.33	2,430.89	2,322.90	107.99	22.510	
13,500.00	7,500.00	16,016.84	9,888.00	53.40	55.52	-169.60	-5,038.52	2,385.84	2,434.94	2,326.25	108.69	22.402	
13,550.00	7,500.00	16,050.00	9,888.00	53.32	55.42	-169.02	-5,007.48	2,397.48	2,439.02	2,329.57	109.45	22.285	
13,600.00	7,500.00	16,069.00	9,888.00	53.22	55.37	-168.58	-4,989.44	2,403.44	2,443.02	2,332.89	110.13	22.184	
13,650.00	7,500.00	16,100.00	9,888.00	53.12	55.29	-168.05	-4,959.66	2,412.04	2,446.97	2,336.13	110.84	22.076	
13,700.00	7,500.00	16,120.40	9,888.00	53.00	55.23	-167.63	-4,939.85	2,416.93	2,450.81	2,339.31	111.50	21.981	
13,750.00	7,500.00	16,150.00	9,888.00	52.88	55.15	-167.15	-4,910.87	2,422.92	2,454.54	2,342.36	112.18	21.880	
13,800.00	7,500.00	16,171.18	9,888.00	52.75	55.09	-166.77	-4,889.97	2,426.40	2,458.10	2,345.30	112.80	21.792	
13,850.00	7,500.00	16,200.00	9,888.00	52.61	55.00	-166.35	-4,861.39	2,430.06	2,461.51	2,348.06	113.45	21.697	
13,900.00	7,500.00	16,225.83	9,888.00	52.48	54.93	-165.99	-4,835.65	2,432.27	2,464.72	2,350.66	114.06	21.609	
13,950.00	7,500.00	16,258.86	9,888.00	52.33	54.84	-165.62	-4,802.69	2,434.26	2,467.60	2,352.90	114.70	21.513	
14,000.00	7,500.00	16,300.00	9,888.00	52.19	54.73	-165.29	-4,761.59	2,436.20	2,469.96	2,354.58	115.38	21.407	
14,050.00	7,500.00	16,339.62	9,888.00	52.05	54.63	-165.05	-4,722.00	2,437.51	2,471.76	2,355.72	116.03	21.302	
14,100.00	7,500.00	16,380.26	9,888.00	51.90	54.52	-164.88	-4,681.36	2,438.29	2,472.97	2,356.29	116.68	21.195	
14,105.32	7,500.00	16,384.59	9,888.00	51.89	54.51	-164.87	-4,677.04	2,438.34	2,473.06	2,356.31	116.75	21.183	
14,200.00	7,500.00	16,469.45	9,888.00	51.63	54.29	-164.73	-4,592.17	2,438.29	2,474.53	2,356.52	118.01	20.969	
14,300.00	7,500.00	16,569.40	9,888.00	51.35	54.04	-164.65	-4,492.22	2,437.85	2,475.30	2,355.89	119.41	20.730	
14,333.98	7,500.00	16,603.38	9,888.00	51.26	53.96	-164.65	-4,458.25	2,437.70	2,475.35	2,355.47	119.88	20.648	
14,400.00	7,500.00	16,669.40	9,888.00	51.09	53.80	-164.65	-4,392.22	2,437.42	2,475.35	2,354.55	120.80	20.491	
14,500.00	7,500.00	16,769.40	9,888.00	50.84	53.57	-164.65	-4,292.23	2,436.98	2,475.35	2,353.16	122.19	20.257	
14,600.00	7,500.00	16,869.40	9,888.00	50.59	53.34	-164.65	-4,192.23	2,436.55	2,475.35	2,351.75	123.59	20.028	
14,700.00	7,500.00	16,969.40	9,888.00	50.35	53.12	-164.65	-4,092.23	2,436.11	2,475.35	2,350.35	125.00	19.803	
14,800.00	7,500.00	17,069.40	9,888.00	50.12	52.92	-164.65	-3,992.23	2,435.68	2,475.34	2,348.94	126.40	19.583	
14,900.00	7,500.00	17,169.40	9,888.00	49.90	52.72	-164.65	-3,892.23	2,435.24	2,475.34	2,347.53	127.82	19.367	
15,000.00	7,500.00	17,269.40	9,888.00	49.69	52.53	-164.65	-3,792.23	2,434.81	2,475.34	2,346.11	129.23	19.155	
15,100.00	7,500.00	17,369.40	9,888.00	49.48	52.34	-164.65	-3,692.23	2,434.37	2,475.34	2,344.69	130.65	18.947	
15,200.00	7,500.00	17,469.40	9,888.00	49.28	52.17	-164.65	-3,592.23	2,433.94	2,475.34	2,343.27	132.07	18.743	
15,300.00	7,500.00	17,569.40	9,888.00	49.09	52.01	-164.65	-3,492.23	2,433.50	2,475.34	2,341.84	133.49	18.543	
15,400.00	7,500.00	17,669.40	9,888.00	48.91	51.85	-164.65	-3,392.23	2,433.07	2,475.33	2,340.41	134.92	18.347	
15,500.00	7,500.00	17,769.40	9,888.00	48.74	51.71	-164.65	-3,292.24	2,432.64	2,475.33	2,338.98	136.35	18.154	
15,600.00	7,500.00	17,869.40	9,888.00	48.57	51.57	-164.65	-3,192.24	2,432.20	2,475.33	2,337.54	137.79	17.965	
15,700.00	7,500.00	17,969.40	9,888.00	48.42	51.44	-164.65	-3,092.24	2,431.77	2,475.33	2,336.11	139.22	17.780	
15,800.00	7,500.00	18,069.40	9,888.00	48.27	51.32	-164.65	-2,992.24	2,431.33	2,475.33	2,334.66	140.66	17.598	
15,900.00	7,500.00	18,169.40	9,888.00	48.13	51.22	-164.65	-2,892.24	2,430.90	2,475.32	2,333.22	142.10	17.419	
16,000.00	7,500.00	18,269.40	9,888.00	48.01	51.12	-164.65	-2,792.24	2,430.46	2,475.32	2,331.77	143.55	17.244	
16,100.00	7,500.00	18,369.40	9,888.00	47.89	51.03	-164.65	-2,692.24	2,430.03	2,475.32	2,330.32	145.00	17.072	
16,200.00	7,500.00	18,469.40	9,888.00	47.78	50.95	-164.65	-2,592.24	2,429.59	2,475.32	2,328.87	146.45	16.903	
16,300.00	7,500.00	18,569.40	9,888.00	47.68	50.88	-164.65	-2,492.24	2,429.16	2,475.32	2,327.42	147.90	16.737	
16,400.00	7,500.00	18,669.40	9,888.00	47.59	50.83	-164.65	-2,392.24	2,428.72	2,475.31	2,325.96	149.35	16.574	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 4H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,500.00	7,500.00	18,769.40	9,888.00	47.51	50.78	-164.65	-2,292.24	2,428.29	2,475.31	2,324.50	150.81	16.413	
16,600.00	7,500.00	18,869.40	9,888.00	47.44	50.75	-164.65	-2,192.25	2,427.85	2,475.31	2,323.04	152.27	16.256	
16,700.00	7,500.00	18,969.40	9,888.00	47.39	50.72	-164.65	-2,092.25	2,427.42	2,475.31	2,321.58	153.73	16.102	
16,800.00	7,500.00	19,069.40	9,888.00	47.34	50.71	-164.65	-1,992.25	2,426.98	2,475.31	2,320.11	155.19	15.950	
16,900.00	7,500.00	19,169.40	9,888.00	47.31	50.71	-164.65	-1,892.25	2,426.55	2,475.31	2,318.65	156.66	15.801	
17,000.00	7,500.00	7,774.18	7,634.71	47.29	28.74	-93.86	-349.92	1,095.52	2,456.33	2,388.65	67.68	36.296	
17,100.00	7,500.00	7,773.26	7,633.78	47.28	28.73	-93.84	-349.91	1,095.47	2,398.73	2,330.42	68.31	35.117	
17,200.00	7,500.00	7,772.32	7,632.85	47.28	28.73	-93.81	-349.89	1,095.42	2,343.98	2,275.01	68.97	33.984	
17,300.00	7,500.00	7,771.37	7,631.90	47.30	28.73	-93.78	-349.88	1,095.37	2,292.29	2,222.62	69.67	32.902	
17,400.00	7,500.00	7,770.41	7,630.94	47.33	28.72	-93.76	-349.86	1,095.31	2,243.86	2,173.47	70.39	31.876	
17,500.00	7,500.00	7,769.44	7,629.97	47.37	28.72	-93.73	-349.84	1,095.26	2,198.92	2,127.78	71.14	30.910	
17,600.00	7,500.00	7,768.46	7,629.00	47.43	28.72	-93.70	-349.83	1,095.20	2,157.68	2,085.78	71.90	30.009	
17,700.00	7,500.00	7,767.47	7,628.01	47.50	28.71	-93.67	-349.81	1,095.15	2,120.36	2,047.68	72.67	29.177	
17,800.00	7,500.00	7,766.47	7,627.00	47.59	28.71	-93.64	-349.79	1,095.09	2,087.16	2,013.72	73.44	28.419	
17,900.00	7,500.00	7,765.45	7,625.99	47.69	28.70	-93.61	-349.77	1,095.03	2,058.29	1,984.09	74.20	27.738	
18,000.00	7,500.00	7,764.43	7,624.97	47.81	28.70	-93.58	-349.76	1,094.97	2,033.93	1,958.99	74.95	27.139	
18,100.00	7,500.00	7,763.39	7,623.93	47.94	28.70	-93.55	-349.74	1,094.91	2,014.25	1,938.59	75.66	26.623	
18,200.00	7,500.00	7,762.34	7,622.88	48.08	28.69	-93.52	-349.72	1,094.85	1,999.38	1,923.05	76.33	26.195	
18,300.00	7,500.00	7,761.27	7,621.82	48.25	28.69	-93.49	-349.70	1,094.78	1,989.43	1,912.48	76.95	25.854	
18,400.00	7,500.00	7,760.19	7,620.74	48.42	28.69	-93.46	-349.68	1,094.72	1,984.47	1,906.96	77.51	25.603	
18,448.50	7,500.00	7,759.67	7,620.21	48.51	28.68	-93.45	-349.67	1,094.69	1,983.88	1,906.12	77.76	25.513	
18,461.64	7,500.00	7,759.52	7,620.07	48.54	28.68	-93.44	-349.67	1,094.68	1,983.92	1,906.10	77.82	25.493	
18,462.14	7,500.00	7,759.52	7,620.07	49.47	28.68	-93.44	-349.67	1,094.68	1,983.92	1,906.11	77.82	25.495	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	-90.65	-0.68	-59.98	59.98				
100.00	100.00	101.00	101.00	0.28	0.28	-90.65	-0.68	-59.98	59.98	59.43	0.56	107.956	
200.00	200.00	201.00	201.00	0.63	0.64	-90.65	-0.68	-59.98	59.98	58.71	1.27	47.136	
300.00	300.00	301.00	301.00	0.99	1.00	-90.65	-0.68	-59.98	59.98	57.99	1.99	30.150	
400.00	400.00	401.00	401.00	1.35	1.36	-90.65	-0.68	-59.98	59.98	57.28	2.71	22.163	
416.33	416.33	417.33	417.33	1.41	1.41	-90.65	-0.68	-59.98	59.98	57.16	2.82	21.244	CC
500.00	500.00	501.00	501.00	1.71	1.71	-90.65	-0.68	-59.98	59.98	56.56	3.42	17.523	
600.00	599.98	600.93	600.91	2.06	2.06	163.79	-2.46	-59.98	61.70	57.59	4.11	15.005	
700.00	699.84	700.58	700.42	2.40	2.39	160.51	-7.70	-59.98	67.01	62.22	4.79	13.995	
750.00	749.68	750.22	749.90	2.58	2.56	158.39	-11.60	-59.98	71.11	65.97	5.13	13.856	
800.00	799.49	799.94	799.43	2.75	2.73	156.33	-15.93	-59.98	75.75	70.28	5.48	13.835	
900.00	899.11	899.36	898.48	3.10	3.07	152.90	-24.60	-59.98	85.29	79.13	6.17	13.829	
1,000.00	998.73	998.79	997.53	3.46	3.42	150.17	-33.27	-59.98	95.08	88.21	6.87	13.846	
1,001.27	1,000.00	1,000.06	998.79	3.46	3.42	150.14	-33.38	-59.98	95.20	88.33	6.88	13.846	
1,100.00	1,098.18	1,101.77	1,100.13	3.81	3.78	146.24	-41.92	-58.25	104.66	97.08	7.59	13.796	
1,200.00	1,197.22	1,205.29	1,203.18	4.18	4.14	144.41	-49.95	-52.84	113.44	105.13	8.31	13.653	
1,300.00	1,295.71	1,309.20	1,306.43	4.54	4.51	143.95	-57.31	-43.71	121.33	112.30	9.03	13.437	
1,400.00	1,393.53	1,413.44	1,409.65	4.91	4.89	144.51	-63.99	-30.86	128.35	118.60	9.75	13.168	
1,414.82	1,407.97	1,428.92	1,424.94	4.97	4.94	144.67	-64.92	-28.64	129.32	119.46	9.85	13.124	
1,500.00	1,490.88	1,518.02	1,512.72	5.28	5.26	145.93	-69.97	-14.25	133.55	123.09	10.46	12.768	
1,600.00	1,588.22	1,622.88	1,615.44	5.66	5.64	147.22	-75.24	6.11	135.22	124.05	11.17	12.109	
1,700.00	1,685.56	1,727.74	1,717.40	6.04	6.02	148.42	-79.76	30.15	133.29	121.42	11.87	11.230	
1,800.00	1,782.90	1,828.33	1,814.68	6.42	6.38	149.58	-83.64	55.45	129.09	116.48	12.61	10.239	
1,900.00	1,880.24	1,928.20	1,911.25	6.80	6.75	150.82	-87.49	80.61	124.91	111.55	13.36	9.350	
2,000.00	1,977.58	2,028.08	2,007.83	7.18	7.12	152.14	-91.33	105.77	120.79	106.67	14.12	8.557	
2,100.00	2,074.91	2,127.95	2,104.41	7.57	7.50	153.55	-95.18	130.93	116.74	101.86	14.88	7.847	
2,200.00	2,172.25	2,227.83	2,200.99	7.95	7.88	155.07	-99.03	156.09	112.76	97.12	15.64	7.210	
2,300.00	2,269.59	2,327.70	2,297.56	8.34	8.26	156.69	-102.88	181.25	108.87	92.46	16.41	6.636	
2,400.00	2,366.93	2,427.58	2,394.14	8.73	8.64	158.43	-106.72	206.41	105.07	87.90	17.17	6.118	
2,500.00	2,464.27	2,527.45	2,490.72	9.11	9.02	160.30	-110.57	231.57	101.38	83.43	17.94	5.650	
2,600.00	2,561.61	2,627.33	2,587.29	9.50	9.41	162.31	-114.42	256.73	97.80	79.09	18.72	5.226	
2,700.00	2,658.95	2,727.20	2,683.87	9.89	9.80	164.47	-118.26	281.90	94.35	74.87	19.49	4.842	
2,800.00	2,756.29	2,827.08	2,780.45	10.28	10.18	166.79	-122.11	307.06	91.05	70.79	20.26	4.494	
2,900.00	2,853.63	2,926.95	2,877.03	10.67	10.57	169.28	-125.96	332.22	87.91	66.87	21.04	4.179	
3,000.00	2,950.97	3,026.83	2,973.60	11.06	10.96	171.95	-129.80	357.38	84.94	63.13	21.81	3.895	
3,100.00	3,048.31	3,126.70	3,070.18	11.45	11.35	174.80	-133.65	382.54	82.17	59.59	22.58	3.639	
3,200.00	3,145.64	3,226.58	3,166.76	11.84	11.75	177.85	-137.50	407.70	79.62	56.27	23.36	3.409	
3,300.00	3,242.98	3,326.45	3,263.34	12.23	12.14	-178.92	-141.34	432.86	77.31	53.18	24.13	3.204	
3,400.00	3,340.32	3,426.33	3,359.91	12.62	12.53	-175.49	-145.19	458.02	75.27	50.36	24.91	3.022	
3,500.00	3,437.66	3,526.20	3,456.49	13.01	12.92	-171.89	-149.04	483.18	73.50	47.82	25.68	2.862	
3,600.00	3,535.00	3,626.07	3,553.07	13.40	13.32	-168.13	-152.89	508.34	72.04	45.58	26.46	2.723	
3,700.00	3,632.34	3,725.95	3,649.65	13.79	13.71	-164.23	-156.73	533.50	70.90	43.67	27.23	2.603	
3,800.00	3,729.68	3,825.82	3,746.22	14.19	14.11	-160.23	-160.58	558.66	70.10	42.09	28.01	2.502	
3,900.00	3,827.02	3,925.70	3,842.80	14.58	14.50	-156.15	-164.43	583.82	69.65	40.86	28.79	2.419	
3,975.47	3,900.48	4,001.07	3,915.68	14.87	14.80	-153.05	-167.33	602.80	69.55	40.17	29.38	2.367	
4,000.00	3,924.36	4,025.57	3,939.38	14.97	14.90	-152.04	-168.27	608.98	69.56	39.99	29.57	2.352	
4,100.00	4,021.70	4,125.45	4,035.95	15.36	15.29	-147.94	-172.12	634.14	69.83	39.47	30.36	2.300	
4,200.00	4,119.04	4,225.32	4,132.53	15.75	15.69	-143.89	-175.97	659.30	70.45	39.31	31.15	2.262	ES
4,300.00	4,216.37	4,325.20	4,229.11	16.15	16.08	-139.93	-179.81	684.46	71.42	39.48	31.93	2.236	
4,400.00	4,313.71	4,425.07	4,325.69	16.54	16.48	-136.10	-183.66	709.62	72.72	39.99	32.73	2.222	
4,500.00	4,411.05	4,524.95	4,422.26	16.93	16.88	-132.42	-187.51	734.78	74.33	40.81	33.52	2.217	SF
4,600.00	4,508.39	4,624.82	4,518.84	17.32	17.27	-128.90	-191.35	759.94	76.24	41.92	34.32	2.222	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,700.00	4,605.73	4,724.70	4,615.42	17.72	17.67	-125.57	-195.20	785.10	78.42	43.30	35.11	2.233	
4,800.00	4,703.07	4,824.57	4,712.00	18.11	18.07	-122.43	-199.05	810.26	80.85	44.94	35.91	2.251	
4,900.00	4,800.41	4,924.45	4,808.57	18.50	18.46	-119.48	-202.90	835.42	83.51	46.80	36.71	2.275	
5,000.00	4,897.75	5,024.32	4,905.15	18.90	18.86	-116.72	-206.74	860.58	86.37	48.86	37.51	2.303	
5,100.00	4,995.09	5,124.20	5,001.73	19.29	19.26	-114.14	-210.59	885.74	89.43	51.12	38.31	2.334	
5,200.00	5,092.43	5,224.07	5,098.30	19.68	19.66	-111.73	-214.44	910.90	92.65	53.54	39.12	2.369	
5,300.00	5,189.77	5,323.95	5,194.88	20.07	20.06	-109.49	-218.28	936.06	96.03	56.11	39.92	2.406	
5,400.00	5,287.10	5,423.82	5,291.46	20.47	20.45	-107.41	-222.13	961.22	99.54	58.82	40.72	2.445	
5,500.00	5,384.44	5,523.70	5,388.04	20.86	20.85	-105.47	-225.98	986.38	103.18	61.66	41.52	2.485	
5,600.00	5,481.78	5,623.57	5,484.61	21.25	21.25	-103.66	-229.82	1,011.54	106.92	64.60	42.32	2.526	
5,700.00	5,579.12	5,723.45	5,581.19	21.65	21.65	-101.98	-233.67	1,036.70	110.77	67.64	43.12	2.569	
5,800.00	5,676.46	5,823.32	5,677.77	22.04	22.05	-100.41	-237.52	1,061.86	114.70	70.78	43.93	2.611	
5,900.00	5,773.80	5,923.20	5,774.35	22.43	22.45	-98.95	-241.37	1,087.02	118.72	73.99	44.73	2.654	
6,000.00	5,871.14	6,023.07	5,870.92	22.83	22.85	-97.58	-245.21	1,112.18	122.80	77.27	45.53	2.697	
6,100.00	5,968.48	6,122.95	5,967.50	23.22	23.24	-96.30	-249.06	1,137.34	126.95	80.62	46.33	2.740	
6,200.00	6,065.82	6,222.82	6,064.08	23.61	23.64	-95.10	-252.91	1,162.50	131.16	84.03	47.13	2.783	
6,300.00	6,163.16	6,322.70	6,160.66	24.01	24.04	-93.98	-256.75	1,187.66	135.43	87.50	47.93	2.825	
6,400.00	6,260.50	6,422.57	6,257.23	24.40	24.44	-92.93	-260.60	1,212.82	139.74	91.01	48.73	2.867	
6,500.00	6,357.83	6,522.45	6,353.81	24.79	24.84	-91.94	-264.45	1,237.98	144.10	94.56	49.53	2.909	
6,600.00	6,455.17	6,622.32	6,450.39	25.19	25.24	-91.01	-268.29	1,263.14	148.50	98.16	50.33	2.950	
6,700.00	6,552.51	6,722.20	6,546.96	25.58	25.64	-90.13	-272.14	1,288.30	152.93	101.80	51.14	2.991	
6,800.00	6,649.85	6,822.07	6,643.54	25.98	26.04	-89.30	-275.99	1,313.46	157.40	105.46	51.94	3.031	
6,900.00	6,747.19	6,921.95	6,740.12	26.37	26.44	-88.52	-279.83	1,338.62	161.90	109.16	52.74	3.070	
7,000.00	6,844.53	7,021.82	6,836.70	26.76	26.84	-87.78	-283.68	1,363.78	166.43	112.89	53.54	3.109	
7,100.00	6,941.87	7,121.70	6,933.27	27.16	27.24	-87.08	-287.53	1,388.94	170.98	116.65	54.34	3.147	
7,115.01	6,956.48	7,136.69	6,947.77	27.22	27.30	-86.98	-288.11	1,392.72	171.67	117.21	54.46	3.152	
7,150.00	6,990.45	7,171.58	6,981.50	27.35	27.44	-99.94	-289.45	1,401.51	174.28	119.54	54.74	3.184	
7,200.00	7,038.53	7,221.03	7,029.32	27.55	27.64	-114.16	-291.35	1,413.97	181.51	126.38	55.13	3.293	
7,250.00	7,085.72	7,269.68	7,076.37	27.75	27.83	-124.07	-293.23	1,426.22	192.82	137.31	55.51	3.473	
7,300.00	7,131.67	7,317.16	7,122.28	27.94	28.02	-131.09	-295.06	1,438.18	208.15	152.27	55.88	3.725	
7,350.00	7,176.02	7,363.10	7,166.70	28.13	28.20	-136.23	-296.83	1,449.76	227.44	171.21	56.24	4.044	
7,400.00	7,218.44	7,407.16	7,209.30	28.32	28.38	-140.10	-298.52	1,460.85	250.59	194.01	56.58	4.429	
7,450.00	7,258.60	7,448.99	7,249.76	28.50	28.55	-143.04	-300.13	1,471.39	277.44	220.55	56.89	4.876	
7,500.00	7,296.21	7,488.29	7,287.76	28.67	28.71	-145.25	-301.65	1,481.29	307.83	250.64	57.19	5.382	
7,550.00	7,330.97	7,524.75	7,323.02	28.84	28.85	-146.84	-303.05	1,490.48	341.54	284.07	57.47	5.943	
7,600.00	7,362.62	7,558.09	7,355.26	28.99	28.99	-147.87	-304.34	1,498.88	378.31	320.60	57.72	6.555	
7,650.00	7,390.91	7,588.07	7,384.25	29.15	29.11	-148.33	-305.49	1,506.43	417.88	359.94	57.94	7.212	
7,700.00	7,415.64	7,614.45	7,409.75	29.30	29.21	-148.15	-306.51	1,513.08	459.94	401.81	58.13	7.912	
7,750.00	7,436.62	7,637.03	7,431.59	29.44	29.30	-147.16	-307.38	1,518.76	504.16	445.87	58.30	8.648	
7,800.00	7,453.68	7,655.64	7,449.59	29.57	29.38	-144.98	-308.09	1,523.45	550.22	491.78	58.43	9.416	
7,825.96	7,460.95	7,663.69	7,457.37	29.64	29.41	-143.12	-308.40	1,525.48	574.73	516.23	58.49	9.826	
7,900.00	7,477.79	7,682.83	7,475.88	29.84	29.48	-137.59	-309.14	1,530.30	645.76	587.13	58.63	11.015	
8,000.00	7,493.08	7,701.53	7,493.96	30.11	29.56	-124.72	-309.86	1,535.01	743.25	684.49	58.76	12.649	
8,100.00	7,499.70	7,711.88	7,503.97	30.38	29.60	-100.57	-310.26	1,537.62	841.88	783.04	58.84	14.308	
8,125.95	7,499.99	7,713.20	7,505.24	30.45	29.61	-92.04	-310.31	1,537.95	867.58	808.73	58.85	14.742	
8,200.00	7,499.99	7,716.14	7,508.08	30.65	29.62	-93.39	-310.42	1,538.69	940.98	882.09	58.88	15.981	
8,300.00	7,499.99	7,720.10	7,511.92	30.94	29.63	-95.17	-310.58	1,539.69	1,040.23	981.31	58.92	17.655	
8,400.00	7,499.99	7,724.07	7,515.76	31.24	29.65	-96.91	-310.73	1,540.69	1,139.60	1,080.64	58.96	19.329	
8,500.00	7,499.99	7,728.04	7,519.59	31.56	29.67	-98.61	-310.88	1,541.69	1,239.06	1,180.06	59.00	21.001	
8,600.00	7,500.00	7,732.00	7,523.43	31.88	29.68	-100.27	-311.04	1,542.69	1,338.59	1,279.55	59.04	22.673	
8,700.00	7,500.00	7,735.97	7,527.26	32.22	29.70	-101.88	-311.19	1,543.69	1,438.17	1,379.09	59.08	24.343	
8,800.00	7,500.00	7,739.94	7,531.10	32.58	29.71	-103.46	-311.34	1,544.69	1,537.79	1,478.67	59.12	26.012	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,500.00	7,743.91	7,534.94	32.94	29.73	-104.98	-311.49	1,545.69	1,637.46	1,578.30	59.16	27.678	
9,000.00	7,500.00	7,747.87	7,538.77	33.32	29.75	-106.47	-311.65	1,546.69	1,737.15	1,677.95	59.20	29.342	
9,100.00	7,500.00	7,751.84	7,542.61	33.71	29.76	-107.90	-311.80	1,547.69	1,836.87	1,777.62	59.25	31.004	
9,200.00	7,500.00	7,755.81	7,546.45	34.11	29.78	-109.30	-311.95	1,548.69	1,936.60	1,877.31	59.29	32.663	
9,300.00	7,500.00	7,759.78	7,550.28	34.52	29.79	-110.64	-312.11	1,549.69	2,036.36	1,977.02	59.33	34.320	
9,400.00	7,500.00	7,763.74	7,554.12	34.94	29.81	-111.95	-312.26	1,550.68	2,136.13	2,076.75	59.38	35.974	
9,500.00	7,500.00	11,836.74	9,673.00	35.37	42.43	-171.22	-2,542.77	1,764.58	2,197.76	2,151.70	46.07	47.710	
9,600.00	7,500.00	11,936.74	9,673.00	35.81	42.81	-171.22	-2,642.76	1,765.02	2,197.76	2,150.51	47.25	46.515	
9,700.00	7,500.00	12,036.74	9,673.00	36.26	43.20	-171.22	-2,742.76	1,765.45	2,197.76	2,149.31	48.45	45.359	
9,800.00	7,500.00	12,136.74	9,673.00	36.73	43.59	-171.22	-2,842.76	1,765.89	2,197.75	2,148.08	49.68	44.241	
9,900.00	7,500.00	12,236.74	9,673.00	37.20	44.00	-171.22	-2,942.76	1,766.33	2,197.75	2,146.83	50.92	43.161	
10,000.00	7,500.00	12,336.74	9,673.00	37.68	44.41	-171.22	-3,042.76	1,766.77	2,197.75	2,145.57	52.18	42.118	
10,100.00	7,500.00	12,436.74	9,673.00	38.17	44.84	-171.22	-3,142.76	1,767.21	2,197.75	2,144.29	53.46	41.113	
10,200.00	7,500.00	12,536.74	9,673.00	38.66	45.27	-171.22	-3,242.76	1,767.65	2,197.74	2,142.99	54.75	40.143	
10,300.00	7,500.00	12,636.74	9,673.00	39.17	45.71	-171.22	-3,342.76	1,768.08	2,197.74	2,141.69	56.05	39.208	
10,400.00	7,500.00	12,736.74	9,673.00	39.68	46.15	-171.22	-3,442.76	1,768.52	2,197.74	2,140.36	57.37	38.307	
10,500.00	7,500.00	12,836.74	9,673.00	40.20	46.61	-171.22	-3,542.76	1,768.96	2,197.73	2,139.03	58.70	37.439	
10,600.00	7,500.00	12,936.74	9,673.00	40.73	47.07	-171.22	-3,642.75	1,769.40	2,197.73	2,137.69	60.04	36.603	
10,700.00	7,500.00	13,036.74	9,673.00	41.26	47.54	-171.22	-3,742.75	1,769.84	2,197.73	2,136.33	61.39	35.797	
10,800.00	7,500.00	13,136.74	9,673.00	41.80	48.01	-171.23	-3,842.75	1,770.28	2,197.72	2,134.97	62.76	35.020	
10,900.00	7,500.00	13,236.74	9,673.00	42.35	48.50	-171.23	-3,942.75	1,770.71	2,197.72	2,133.59	64.13	34.271	
11,000.00	7,500.00	13,336.74	9,673.00	42.91	48.99	-171.23	-4,042.75	1,771.15	2,197.72	2,132.21	65.51	33.549	
11,100.00	7,500.00	13,436.74	9,673.00	43.47	49.48	-171.23	-4,142.75	1,771.59	2,197.71	2,130.82	66.90	32.853	
11,200.00	7,500.00	13,536.74	9,673.00	44.03	49.99	-171.23	-4,242.75	1,772.03	2,197.71	2,129.42	68.29	32.181	
11,300.00	7,500.00	13,636.74	9,673.00	44.61	50.49	-171.23	-4,342.75	1,772.47	2,197.71	2,128.01	69.69	31.533	
11,400.00	7,500.00	13,736.74	9,673.00	45.18	51.01	-171.23	-4,442.75	1,772.91	2,197.70	2,126.60	71.10	30.908	
11,500.00	7,500.00	13,836.74	9,673.00	45.77	51.53	-171.23	-4,542.75	1,773.34	2,197.70	2,125.18	72.52	30.304	
11,581.32	7,500.00	13,918.06	9,673.00	46.24	51.96	-171.23	-4,624.06	1,773.70	2,197.70	2,124.02	73.68	29.829	
11,600.00	7,500.00	13,936.74	9,673.00	46.35	52.06	-171.24	-4,642.74	1,773.78	2,197.67	2,123.72	73.95	29.720	
11,650.00	7,500.00	13,986.66	9,673.00	46.65	52.32	-171.33	-4,692.66	1,774.00	2,197.26	2,122.58	74.69	29.420	
11,700.00	7,500.00	14,036.33	9,673.00	46.96	52.59	-171.54	-4,742.33	1,774.22	2,196.41	2,120.95	75.46	29.109	
11,750.00	7,500.00	14,084.64	9,673.00	47.27	52.85	-171.84	-4,790.65	1,774.43	2,195.14	2,118.88	76.25	28.787	
11,800.00	7,500.00	14,118.41	9,673.00	47.59	53.03	-172.12	-4,824.40	1,775.44	2,193.66	2,116.62	77.04	28.475	
11,850.00	7,500.00	14,150.00	9,673.00	47.91	53.20	-172.40	-4,855.88	1,777.96	2,192.16	2,114.34	77.83	28.167	
11,900.00	7,500.00	14,185.62	9,673.00	48.23	53.41	-172.72	-4,891.20	1,782.61	2,190.66	2,112.02	78.63	27.859	
11,950.00	7,500.00	14,219.73	9,673.00	48.56	53.60	-173.03	-4,924.72	1,788.84	2,189.15	2,109.71	79.44	27.556	
12,000.00	7,500.00	14,250.00	9,673.00	48.88	53.78	-173.32	-4,954.18	1,795.82	2,187.67	2,107.41	80.26	27.257	
12,050.00	7,500.00	14,289.07	9,673.00	49.20	54.01	-173.68	-4,991.67	1,806.82	2,186.20	2,105.11	81.09	26.959	
12,100.00	7,500.00	14,324.37	9,673.00	49.52	54.22	-174.02	-5,024.91	1,818.66	2,184.77	2,102.84	81.93	26.668	
12,150.00	7,500.00	14,360.13	9,673.00	49.83	54.43	-174.36	-5,057.90	1,832.45	2,183.38	2,100.61	82.76	26.381	
12,200.00	7,500.00	14,400.00	9,673.00	50.14	54.67	-174.74	-5,093.74	1,849.91	2,182.04	2,098.44	83.60	26.100	
12,250.00	7,500.00	14,433.13	9,673.00	50.44	54.87	-175.06	-5,122.67	1,866.06	2,180.76	2,096.31	84.45	25.822	
12,300.00	7,500.00	14,470.45	9,673.00	50.74	55.09	-175.42	-5,154.23	1,885.96	2,179.55	2,094.25	85.30	25.552	
12,350.00	7,500.00	14,508.37	9,673.00	51.02	55.31	-175.78	-5,185.09	1,907.97	2,178.42	2,092.27	86.15	25.287	
12,400.00	7,500.00	14,550.00	9,673.00	51.30	55.55	-176.17	-5,217.45	1,934.15	2,177.37	2,090.39	86.98	25.032	
12,450.00	7,500.00	14,586.12	9,673.00	51.56	55.76	-176.50	-5,244.15	1,958.49	2,176.41	2,088.58	87.83	24.779	
12,500.00	7,500.00	14,626.05	9,673.00	51.81	55.98	-176.87	-5,272.04	1,987.04	2,175.54	2,086.87	88.67	24.535	
12,550.00	7,500.00	14,666.71	9,673.00	52.05	56.20	-177.23	-5,298.62	2,017.81	2,174.77	2,085.27	89.50	24.299	
12,600.00	7,500.00	14,708.17	9,673.00	52.27	56.42	-177.59	-5,323.71	2,050.81	2,174.10	2,083.78	90.32	24.071	
12,650.00	7,500.00	14,750.00	9,673.00	52.48	56.63	-177.94	-5,346.86	2,085.63	2,173.52	2,082.39	91.13	23.850	
12,700.00	7,500.00	14,793.60	9,673.00	52.67	56.84	-178.29	-5,368.59	2,123.42	2,173.05	2,081.12	91.93	23.639	
12,750.00	7,500.00	14,837.64	9,673.00	52.84	57.04	-178.63	-5,387.95	2,162.97	2,172.67	2,079.95	92.71	23.435	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,800.00	7,500.00	14,882.61	9,673.00	53.00	57.23	-178.97	-5,404.94	2,204.60	2,172.38	2,078.90	93.48	23.239	
12,850.00	7,500.00	14,928.55	9,673.00	53.14	57.41	-179.29	-5,419.32	2,248.22	2,172.17	2,077.94	94.23	23.051	
12,900.00	7,500.00	14,975.45	9,673.00	53.27	57.58	-179.61	-5,430.83	2,293.68	2,172.05	2,077.08	94.97	22.870	
12,950.00	7,500.00	15,023.36	9,673.00	53.37	57.74	-179.91	-5,439.20	2,340.83	2,172.00	2,076.30	95.70	22.697	
12,964.66	7,500.00	15,037.59	9,673.00	53.40	57.78	180.00	-5,441.03	2,354.95	2,172.00	2,076.09	95.91	22.647	
13,000.00	7,500.00	15,072.25	9,673.00	53.46	57.88	179.80	-5,444.19	2,389.46	2,172.01	2,075.61	96.40	22.530	
13,050.00	7,500.00	15,122.13	9,673.00	53.53	58.00	179.52	-5,445.55	2,439.31	2,172.08	2,074.98	97.10	22.370	
13,100.00	7,500.00	15,172.98	9,673.00	53.58	58.10	179.27	-5,443.03	2,490.09	2,172.18	2,074.40	97.78	22.214	
13,150.00	7,500.00	15,224.75	9,673.00	53.62	58.19	179.04	-5,436.46	2,541.43	2,172.31	2,073.85	98.46	22.063	
13,200.00	7,500.00	15,277.41	9,673.00	53.63	58.25	178.83	-5,425.65	2,592.95	2,172.46	2,073.33	99.13	21.915	
13,250.00	7,500.00	15,330.87	9,673.00	53.63	58.29	178.64	-5,410.50	2,644.20	2,172.62	2,072.82	99.80	21.769	
13,300.00	7,500.00	15,385.05	9,673.00	53.62	58.30	178.48	-5,390.95	2,694.72	2,172.77	2,072.29	100.48	21.624	
13,350.00	7,500.00	15,439.86	9,673.00	53.58	58.29	178.35	-5,367.01	2,744.00	2,172.91	2,071.74	101.16	21.480	
13,400.00	7,500.00	15,495.16	9,673.00	53.54	58.26	178.25	-5,338.79	2,791.55	2,173.01	2,071.16	101.86	21.334	
13,450.00	7,500.00	15,550.84	9,673.00	53.48	58.21	178.18	-5,306.44	2,836.84	2,173.09	2,070.53	102.57	21.187	
13,500.00	7,500.00	15,606.75	9,673.00	53.40	58.14	178.15	-5,270.22	2,879.41	2,173.13	2,069.84	103.30	21.038	
13,550.00	7,500.00	15,662.75	9,673.00	53.32	58.05	178.14	-5,230.45	2,918.81	2,173.14	2,069.09	104.05	20.886	
13,600.00	7,500.00	15,718.68	9,673.00	53.22	57.94	178.18	-5,187.53	2,954.65	2,173.10	2,068.28	104.82	20.732	
13,650.00	7,500.00	15,774.39	9,673.00	53.12	57.82	178.24	-5,141.91	2,986.59	2,173.03	2,067.41	105.62	20.575	
13,700.00	7,500.00	15,829.75	9,673.00	53.00	57.69	178.34	-5,094.06	3,014.40	2,172.92	2,066.49	106.43	20.416	
13,750.00	7,500.00	15,884.62	9,673.00	52.88	57.55	178.46	-5,044.49	3,037.89	2,172.79	2,065.52	107.27	20.256	
13,800.00	7,500.00	15,938.89	9,673.00	52.75	57.41	178.62	-4,993.71	3,056.99	2,172.64	2,064.52	108.12	20.094	
13,850.00	7,500.00	15,992.44	9,673.00	52.61	57.27	178.80	-4,942.23	3,071.66	2,172.48	2,063.49	108.99	19.933	
13,900.00	7,500.00	16,045.19	9,673.00	52.48	57.12	179.01	-4,890.51	3,081.98	2,172.33	2,062.46	109.87	19.773	
13,950.00	7,500.00	16,097.07	9,673.00	52.33	56.98	179.24	-4,839.00	3,088.06	2,172.19	2,061.44	110.75	19.614	
14,000.00	7,500.00	16,147.18	9,673.00	52.19	56.84	179.47	-4,788.96	3,090.79	2,172.09	2,060.47	111.62	19.460	
14,050.00	7,500.00	16,196.99	9,673.00	52.05	56.71	179.65	-4,739.18	3,092.52	2,172.04	2,059.58	112.45	19.315	
14,100.00	7,500.00	16,246.95	9,673.00	51.90	56.58	179.77	-4,689.23	3,093.39	2,172.01	2,058.75	113.27	19.176	
14,105.32	7,500.00	16,252.27	9,673.00	51.89	56.56	179.78	-4,683.91	3,093.43	2,172.01	2,058.66	113.35	19.162	
14,200.00	7,500.00	16,346.86	9,673.00	51.63	56.32	179.93	-4,589.33	3,093.19	2,172.00	2,057.15	114.85	18.912	
14,275.60	7,500.00	16,422.41	9,673.00	51.42	56.13	180.00	-4,513.77	3,092.86	2,172.00	2,055.98	116.02	18.722	
14,300.00	7,500.00	16,446.81	9,673.00	51.35	56.07	-179.99	-4,489.38	3,092.75	2,172.00	2,055.61	116.39	18.662	
14,333.98	7,500.00	16,480.79	9,673.00	51.26	55.99	-179.99	-4,455.40	3,092.61	2,172.00	2,055.09	116.90	18.579	
14,400.00	7,500.00	16,546.81	9,673.00	51.09	55.83	-179.99	-4,389.38	3,092.32	2,172.00	2,054.10	117.90	18.423	
14,500.00	7,500.00	16,646.81	9,673.00	50.84	55.60	-179.99	-4,289.38	3,091.88	2,172.00	2,052.59	119.41	18.190	
14,600.00	7,500.00	16,746.81	9,673.00	50.59	55.37	-179.99	-4,189.38	3,091.45	2,172.00	2,051.08	120.92	17.963	
14,700.00	7,500.00	16,846.81	9,673.00	50.35	55.15	-179.99	-4,089.38	3,091.01	2,172.00	2,049.57	122.43	17.741	
14,800.00	7,500.00	16,946.81	9,673.00	50.12	54.94	-179.99	-3,989.38	3,090.58	2,172.00	2,048.05	123.94	17.524	
14,900.00	7,500.00	17,046.81	9,673.00	49.90	54.74	-179.99	-3,889.38	3,090.14	2,172.00	2,046.54	125.46	17.312	
15,000.00	7,500.00	17,146.81	9,673.00	49.69	54.54	-179.99	-3,789.38	3,089.71	2,172.00	2,045.02	126.98	17.106	
15,100.00	7,500.00	17,246.81	9,673.00	49.48	54.36	-179.99	-3,689.38	3,089.27	2,172.00	2,043.50	128.49	16.904	
15,200.00	7,500.00	17,346.81	9,673.00	49.28	54.18	-179.99	-3,589.38	3,088.84	2,172.00	2,041.99	130.01	16.706	
15,300.00	7,500.00	17,446.81	9,673.00	49.09	54.00	-179.99	-3,489.39	3,088.40	2,172.00	2,040.47	131.53	16.513	
15,400.00	7,500.00	17,546.81	9,673.00	48.91	53.84	-179.99	-3,389.39	3,087.96	2,172.00	2,038.94	133.05	16.324	
15,500.00	7,500.00	17,646.81	9,673.00	48.74	53.69	-179.99	-3,289.39	3,087.53	2,172.00	2,037.42	134.57	16.140	
15,600.00	7,500.00	17,746.81	9,673.00	48.57	53.54	-179.99	-3,189.39	3,087.09	2,172.00	2,035.90	136.10	15.959	
15,700.00	7,500.00	17,846.81	9,673.00	48.42	53.40	-179.99	-3,089.39	3,086.66	2,172.00	2,034.38	137.62	15.782	
15,800.00	7,500.00	17,946.81	9,673.00	48.27	53.27	-179.99	-2,989.39	3,086.22	2,172.00	2,032.85	139.15	15.609	
15,900.00	7,500.00	18,046.81	9,673.00	48.13	53.15	-179.99	-2,889.39	3,085.79	2,172.00	2,031.32	140.67	15.440	
16,000.00	7,500.00	18,146.81	9,673.00	48.01	53.04	-179.99	-2,789.39	3,085.35	2,172.00	2,029.80	142.20	15.274	
16,100.00	7,500.00	18,246.81	9,673.00	47.89	52.94	-179.99	-2,689.39	3,084.92	2,172.00	2,028.27	143.73	15.112	
16,200.00	7,500.00	18,346.81	9,673.00	47.78	52.84	-179.99	-2,589.39	3,084.48	2,172.00	2,026.74	145.26	14.953	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 7H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,300.00	7,500.00	18,446.81	9,673.00	47.68	52.76	-179.99	-2,489.40	3,084.04	2,172.00	2,025.21	146.79	14.797	
16,400.00	7,500.00	18,546.81	9,673.00	47.59	52.69	-179.99	-2,389.40	3,083.61	2,172.00	2,023.68	148.32	14.644	
16,500.00	7,500.00	18,646.81	9,673.00	47.51	52.63	-179.99	-2,289.40	3,083.17	2,172.00	2,022.15	149.85	14.495	
16,600.00	7,500.00	18,746.81	9,673.00	47.44	52.57	-179.99	-2,189.40	3,082.74	2,172.00	2,020.62	151.38	14.348	
16,700.00	7,500.00	18,846.81	9,673.00	47.39	52.53	-179.99	-2,089.40	3,082.30	2,172.00	2,019.08	152.91	14.204	
16,800.00	7,500.00	18,946.81	9,673.00	47.34	52.50	-179.99	-1,989.40	3,081.87	2,172.00	2,017.55	154.45	14.063	
16,900.00	7,500.00	8,083.70	7,864.84	47.31	31.07	-104.10	-323.77	1,625.99	2,168.63	2,096.50	72.13	30.065	
17,000.00	7,500.00	8,081.15	7,862.35	47.29	31.06	-104.00	-323.69	1,625.46	2,097.27	2,024.43	72.84	28.793	
17,100.00	7,500.00	8,078.60	7,859.85	47.28	31.05	-103.90	-323.61	1,624.92	2,028.33	1,954.72	73.60	27.557	
17,200.00	7,500.00	8,076.03	7,857.35	47.28	31.04	-103.80	-323.53	1,624.38	1,962.05	1,887.63	74.42	26.363	
17,300.00	7,500.00	8,073.45	7,854.83	47.30	31.03	-103.70	-323.44	1,623.84	1,898.73	1,823.43	75.30	25.216	
17,400.00	7,500.00	8,070.87	7,852.30	47.33	31.02	-103.60	-323.36	1,623.29	1,838.67	1,762.44	76.22	24.122	
17,500.00	7,500.00	8,068.27	7,849.76	47.37	31.01	-103.51	-323.28	1,622.74	1,782.19	1,705.00	77.19	23.088	
17,600.00	7,500.00	8,065.66	7,847.22	47.43	31.00	-103.41	-323.19	1,622.18	1,729.64	1,651.45	78.19	22.120	
17,700.00	7,500.00	8,063.04	7,844.66	47.50	30.99	-103.30	-323.10	1,621.63	1,681.41	1,602.19	79.22	21.225	
17,800.00	7,500.00	8,060.41	7,842.09	47.59	30.98	-103.20	-323.02	1,621.06	1,637.86	1,557.61	80.25	20.409	
17,900.00	7,500.00	8,057.77	7,839.51	47.69	30.97	-103.10	-322.93	1,620.50	1,599.38	1,518.11	81.27	19.680	
18,000.00	7,500.00	8,055.12	7,836.92	47.81	30.96	-103.00	-322.85	1,619.93	1,566.34	1,484.08	82.25	19.043	
18,100.00	7,500.00	8,052.46	7,834.32	47.94	30.95	-102.90	-322.76	1,619.36	1,539.09	1,455.92	83.17	18.504	
18,200.00	7,500.00	8,049.78	7,831.71	48.08	30.94	-102.80	-322.67	1,618.78	1,517.95	1,433.94	84.01	18.069	
18,300.00	7,500.00	8,047.10	7,829.09	48.25	30.93	-102.69	-322.58	1,618.20	1,503.17	1,418.43	84.74	17.739	
18,400.00	7,500.00	8,044.40	7,826.46	48.42	30.92	-102.59	-322.49	1,617.62	1,494.95	1,409.61	85.33	17.519	
18,461.64	7,500.00	8,042.73	7,824.83	48.54	30.91	-102.53	-322.44	1,617.26	1,493.19	1,407.56	85.63	17.438	
18,462.14	7,500.00	8,042.72	7,824.82	49.47	30.91	-102.53	-322.44	1,617.26	1,493.18	1,407.55	85.63	17.437	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.66	-0.46	-39.98	39.98				
100.00	100.00	100.00	100.00	0.28	0.28	-90.66	-0.46	-39.98	39.98	39.43	0.55	72.426	
200.00	200.00	200.00	200.00	0.63	0.63	-90.66	-0.46	-39.98	39.98	38.71	1.27	31.507	
300.00	300.00	300.00	300.00	0.99	0.99	-90.66	-0.46	-39.98	39.98	38.00	1.99	20.133	
400.00	400.00	400.00	400.00	1.35	1.35	-90.66	-0.46	-39.98	39.98	37.28	2.70	14.793	
500.00	500.00	500.00	500.00	1.71	1.71	-90.66	-0.46	-39.98	39.98	36.56	3.42	11.691	CC, ES
600.00	599.98	599.94	599.92	2.06	2.07	168.03	1.28	-39.98	41.71	37.58	4.13	10.108	
700.00	699.84	699.43	699.27	2.40	2.43	175.62	6.48	-39.98	47.46	42.63	4.83	9.831	
750.00	749.68	748.86	748.55	2.58	2.61	-179.85	10.34	-39.98	52.21	47.03	5.18	10.076	
800.00	799.49	798.38	797.88	2.75	2.79	-175.69	14.66	-39.98	57.81	52.27	5.53	10.448	
900.00	899.11	897.43	896.56	3.10	3.14	-169.44	23.29	-39.98	69.68	63.45	6.23	11.178	
1,000.00	998.73	996.49	995.23	3.46	3.50	-165.03	31.92	-39.98	82.14	75.20	6.94	11.839	
1,001.27	1,000.00	997.75	996.49	3.46	3.50	-164.99	32.03	-39.98	82.30	75.36	6.95	11.847	
1,100.00	1,098.18	1,098.56	1,096.98	3.81	3.86	-163.87	39.93	-38.59	95.01	87.35	7.66	12.401	
1,200.00	1,197.22	1,201.31	1,199.44	4.18	4.23	-162.94	46.02	-34.09	107.91	99.52	8.38	12.870	
1,300.00	1,295.71	1,304.58	1,302.34	4.54	4.59	-162.36	50.14	-26.45	120.69	111.59	9.10	13.264	
1,400.00	1,393.53	1,408.37	1,405.53	4.91	4.96	-162.10	52.24	-15.63	133.28	123.47	9.81	13.589	
1,414.82	1,407.97	1,423.79	1,420.85	4.97	5.01	-162.09	52.38	-13.75	135.13	125.21	9.91	13.629	
1,500.00	1,490.88	1,512.80	1,509.01	5.28	5.32	-161.73	52.30	-1.57	144.41	133.90	10.51	13.740	
1,600.00	1,588.22	1,617.93	1,612.68	5.66	5.69	-161.26	50.27	15.77	151.96	140.75	11.21	13.559	
1,700.00	1,685.56	1,723.51	1,716.13	6.04	6.06	-160.72	46.13	36.39	155.85	143.95	11.90	13.097	
1,800.00	1,782.90	1,827.25	1,817.07	6.42	6.43	-160.09	40.13	59.57	156.30	143.70	12.60	12.403	
1,900.00	1,880.24	1,927.23	1,914.17	6.80	6.80	-159.46	33.92	82.56	155.99	142.65	13.34	11.696	
2,000.00	1,977.58	2,027.22	2,011.28	7.18	7.16	-158.83	27.70	105.56	155.70	141.62	14.08	11.060	
2,100.00	2,074.91	2,127.20	2,108.38	7.57	7.53	-158.19	21.48	128.56	155.42	140.60	14.82	10.486	
2,200.00	2,172.25	2,227.19	2,205.49	7.95	7.90	-157.55	15.26	151.55	155.17	139.60	15.57	9.966	
2,300.00	2,269.59	2,327.17	2,302.59	8.34	8.27	-156.91	9.04	174.55	154.93	138.61	16.32	9.492	
2,400.00	2,366.93	2,427.16	2,399.70	8.73	8.65	-156.26	2.83	197.55	154.71	137.63	17.08	9.060	
2,500.00	2,464.27	2,527.14	2,496.80	9.11	9.03	-155.62	-3.39	220.54	154.51	136.68	17.83	8.664	
2,600.00	2,561.61	2,627.12	2,593.91	9.50	9.41	-154.97	-9.61	243.54	154.34	135.74	18.59	8.300	
2,700.00	2,658.95	2,727.11	2,691.01	9.89	9.79	-154.32	-15.83	266.54	154.18	134.82	19.36	7.966	
2,800.00	2,756.29	2,827.09	2,788.12	10.28	10.17	-153.67	-22.05	289.53	154.04	133.92	20.12	7.656	
2,900.00	2,853.63	2,927.08	2,885.22	10.67	10.55	-153.02	-28.26	312.53	153.92	133.04	20.88	7.371	
3,000.00	2,950.97	3,027.06	2,982.33	11.06	10.94	-152.37	-34.48	335.53	153.82	132.17	21.65	7.105	
3,100.00	3,048.31	3,127.05	3,079.43	11.45	11.32	-151.72	-40.70	358.52	153.74	131.33	22.42	6.859	
3,200.00	3,145.64	3,227.03	3,176.54	11.84	11.71	-151.07	-46.92	381.52	153.69	130.50	23.19	6.629	
3,300.00	3,242.98	3,327.02	3,273.64	12.23	12.09	-150.41	-53.14	404.52	153.65	129.69	23.95	6.414	
3,400.00	3,340.32	3,427.00	3,370.75	12.62	12.48	-149.76	-59.35	427.51	153.63	128.90	24.72	6.214	
3,443.55	3,382.72	3,470.55	3,413.04	12.79	12.65	-149.47	-62.06	437.53	153.63	128.57	25.06	6.130	
3,500.00	3,437.66	3,526.99	3,467.85	13.01	12.87	-149.11	-65.57	450.51	153.63	128.13	25.50	6.026	
3,600.00	3,535.00	3,626.97	3,564.96	13.40	13.26	-148.45	-71.79	473.51	153.65	127.38	26.27	5.849	
3,700.00	3,632.34	3,726.96	3,662.06	13.79	13.64	-147.80	-78.01	496.50	153.69	126.65	27.04	5.684	
3,800.00	3,729.68	3,826.94	3,759.17	14.19	14.03	-147.15	-84.23	519.50	153.75	125.94	27.81	5.528	
3,900.00	3,827.02	3,926.92	3,856.28	14.58	14.42	-146.49	-90.44	542.49	153.84	125.25	28.59	5.381	
4,000.00	3,924.36	4,026.91	3,953.38	14.97	14.81	-145.84	-96.66	565.49	153.94	124.57	29.36	5.243	
4,100.00	4,021.70	4,126.89	4,050.49	15.36	15.20	-145.19	-102.88	588.49	154.06	123.92	30.14	5.112	
4,200.00	4,119.04	4,226.88	4,147.59	15.75	15.59	-144.54	-109.10	611.48	154.20	123.29	30.91	4.988	
4,300.00	4,216.37	4,326.86	4,244.70	16.15	15.98	-143.89	-115.32	634.48	154.36	122.67	31.69	4.871	
4,400.00	4,313.71	4,426.85	4,341.80	16.54	16.38	-143.25	-121.53	657.48	154.54	122.08	32.46	4.760	
4,500.00	4,411.05	4,526.83	4,438.91	16.93	16.77	-142.60	-127.75	680.47	154.74	121.50	33.24	4.655	
4,600.00	4,508.39	4,626.82	4,536.01	17.32	17.16	-141.96	-133.97	703.47	154.96	120.94	34.02	4.555	
4,700.00	4,605.73	4,726.80	4,633.12	17.72	17.55	-141.32	-140.19	726.47	155.20	120.40	34.79	4.460	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,703.07	4,826.79	4,730.22	18.11	17.94	-140.68	-146.41	749.46	155.46	119.88	35.57	4.370	
4,900.00	4,800.41	4,926.77	4,827.33	18.50	18.34	-140.04	-152.62	772.46	155.73	119.38	36.35	4.284	
5,000.00	4,897.75	5,026.76	4,924.43	18.90	18.73	-139.41	-158.84	795.46	156.03	118.90	37.13	4.202	
5,100.00	4,995.09	5,126.74	5,021.54	19.29	19.12	-138.77	-165.06	818.45	156.35	118.44	37.91	4.124	
5,200.00	5,092.43	5,226.73	5,118.64	19.68	19.51	-138.14	-171.28	841.45	156.68	117.99	38.69	4.050	
5,300.00	5,189.77	5,326.71	5,215.75	20.07	19.91	-137.52	-177.50	864.45	157.04	117.57	39.47	3.979	
5,400.00	5,287.10	5,426.69	5,312.85	20.47	20.30	-136.89	-183.71	887.44	157.41	117.16	40.25	3.911	
5,500.00	5,384.44	5,526.68	5,409.96	20.86	20.69	-136.27	-189.93	910.44	157.80	116.77	41.03	3.846	
5,600.00	5,481.78	5,626.66	5,507.06	21.25	21.09	-135.65	-196.15	933.44	158.21	116.40	41.81	3.784	
5,700.00	5,579.12	5,726.65	5,604.17	21.65	21.48	-135.04	-202.37	956.43	158.64	116.05	42.59	3.725	
5,800.00	5,676.46	5,826.63	5,701.27	22.04	21.87	-134.43	-208.59	979.43	159.08	115.72	43.37	3.668	
5,900.00	5,773.80	5,926.62	5,798.38	22.43	22.27	-133.82	-214.80	1,002.43	159.55	115.40	44.15	3.614	
6,000.00	5,871.14	6,026.60	5,895.48	22.83	22.66	-133.22	-221.02	1,025.42	160.03	115.10	44.93	3.562	
6,100.00	5,968.48	6,126.59	5,992.59	23.22	23.06	-132.62	-227.24	1,048.42	160.53	114.82	45.71	3.512	
6,200.00	6,065.82	6,226.57	6,089.70	23.61	23.45	-132.02	-233.46	1,071.42	161.04	114.55	46.49	3.464	
6,300.00	6,163.16	6,326.56	6,186.80	24.01	23.85	-131.43	-239.68	1,094.41	161.58	114.30	47.28	3.418	
6,400.00	6,260.50	6,426.54	6,283.91	24.40	24.24	-130.84	-245.89	1,117.41	162.13	114.07	48.06	3.374	
6,500.00	6,357.83	6,526.53	6,381.01	24.79	24.63	-130.25	-252.11	1,140.41	162.70	113.86	48.84	3.331	
6,600.00	6,455.17	6,626.51	6,478.12	25.19	25.03	-129.67	-258.33	1,163.40	163.29	113.66	49.62	3.290	
6,700.00	6,552.51	6,726.49	6,575.22	25.58	25.42	-129.10	-264.55	1,186.40	163.89	113.48	50.41	3.251	
6,800.00	6,649.85	6,826.48	6,672.33	25.98	25.82	-128.52	-270.77	1,209.39	164.51	113.32	51.19	3.214	
6,900.00	6,747.19	6,926.46	6,769.43	26.37	26.21	-127.96	-276.98	1,232.39	165.14	113.17	51.97	3.177	
7,000.00	6,844.53	7,026.45	6,866.54	26.76	26.61	-127.39	-283.20	1,255.39	165.79	113.03	52.76	3.142	
7,100.00	6,941.87	7,126.43	6,963.64	27.16	27.00	-126.83	-289.42	1,278.38	166.46	112.92	53.54	3.109	
7,115.01	6,956.48	7,141.44	6,978.22	27.22	27.06	-126.75	-290.35	1,281.84	166.56	112.90	53.66	3.104	SF
7,150.00	6,990.45	7,176.39	7,012.16	27.35	27.20	-139.64	-292.53	1,289.87	167.79	113.86	53.94	3.111	
7,200.00	7,038.53	7,226.03	7,060.37	27.55	27.40	-153.17	-295.61	1,301.29	173.02	118.69	54.34	3.184	
7,250.00	7,085.72	7,274.97	7,107.90	27.75	27.59	-161.87	-298.66	1,312.55	182.36	127.62	54.74	3.332	
7,300.00	7,131.67	7,322.84	7,154.40	27.94	27.78	-167.33	-301.63	1,323.56	195.80	140.67	55.13	3.552	
7,350.00	7,176.02	7,369.28	7,199.50	28.13	27.96	-170.80	-304.52	1,334.24	213.33	157.82	55.52	3.843	
7,400.00	7,218.44	7,413.93	7,242.86	28.32	28.14	-173.07	-307.30	1,344.51	234.87	178.99	55.89	4.203	
7,450.00	7,258.60	7,456.45	7,284.16	28.50	28.31	-174.62	-309.94	1,354.29	260.29	204.05	56.24	4.628	
7,500.00	7,296.21	7,496.53	7,323.08	28.67	28.47	-175.77	-312.44	1,363.51	289.40	232.84	56.57	5.116	
7,550.00	7,330.97	7,533.84	7,359.32	28.84	28.61	-176.70	-314.76	1,372.09	321.99	265.12	56.87	5.662	
7,600.00	7,362.62	7,568.12	7,392.61	28.99	28.75	-177.55	-316.89	1,379.97	357.79	300.65	57.15	6.261	
7,650.00	7,390.91	7,599.10	7,422.69	29.15	28.87	-178.46	-318.81	1,387.10	396.53	339.14	57.39	6.909	
7,700.00	7,415.64	7,626.54	7,449.34	29.30	28.98	-179.52	-320.52	1,393.41	437.89	380.28	57.60	7.602	
7,750.00	7,436.62	7,650.23	7,472.35	29.44	29.07	179.09	-321.99	1,398.86	481.54	423.76	57.78	8.334	
7,800.00	7,453.68	7,670.00	7,491.55	29.57	29.15	177.08	-323.22	1,403.41	527.15	469.22	57.93	9.100	
7,825.96	7,460.95	7,678.66	7,499.97	29.64	29.19	175.62	-323.76	1,405.40	551.48	493.48	58.00	9.509	
7,900.00	7,477.79	7,699.57	7,520.27	29.84	29.27	176.87	-325.06	1,410.21	622.21	564.07	58.14	10.701	
8,000.00	7,493.08	7,719.33	7,539.48	30.11	29.35	178.00	-326.28	1,414.69	719.77	661.48	58.28	12.350	
8,100.00	7,499.70	7,730.99	7,550.83	30.38	29.39	178.62	-326.97	1,417.28	818.89	760.53	58.37	14.030	
8,125.95	7,499.99	7,732.71	7,552.50	30.45	29.40	178.61	-327.08	1,417.66	844.78	786.40	58.38	14.471	
8,200.00	7,499.99	7,736.82	7,556.50	30.65	29.41	179.62	-327.32	1,418.55	918.68	860.27	58.41	15.728	
8,300.00	7,499.99	7,742.29	7,561.83	30.94	29.44	-179.25	-327.64	1,419.74	1,018.49	960.04	58.45	17.425	
8,400.00	7,499.99	7,747.67	7,567.08	31.24	29.46	-178.32	-327.95	1,420.90	1,118.31	1,059.82	58.49	19.118	
8,500.00	7,499.99	7,752.96	7,572.24	31.56	29.48	-177.54	-328.26	1,422.03	1,218.13	1,159.60	58.54	20.810	
8,600.00	7,500.00	10,015.52	8,796.00	31.88	35.98	-176.88	-1,643.93	1,495.71	1,297.94	1,261.79	36.14	35.910	
8,700.00	7,500.00	10,115.52	8,796.00	32.22	36.29	-176.88	-1,743.93	1,496.15	1,297.93	1,260.82	37.12	34.968	
8,800.00	7,500.00	10,215.52	8,796.00	32.58	36.61	-176.88	-1,843.93	1,496.59	1,297.93	1,259.80	38.13	34.039	
8,900.00	7,500.00	10,315.52	8,796.00	32.94	36.93	-176.88	-1,943.93	1,497.03	1,297.93	1,258.75	39.18	33.127	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,500.00	10,415.52	8,796.00	33.32	37.27	-176.88	-2,043.93	1,497.47	1,297.93	1,257.67	40.26	32.235	
9,100.00	7,500.00	10,515.52	8,796.00	33.71	37.62	-176.88	-2,143.93	1,497.91	1,297.93	1,256.55	41.38	31.367	
9,200.00	7,500.00	10,615.52	8,796.00	34.11	37.98	-176.88	-2,243.93	1,498.35	1,297.93	1,255.41	42.52	30.523	
9,300.00	7,500.00	10,715.52	8,796.00	34.52	38.35	-176.88	-2,343.93	1,498.80	1,297.93	1,254.24	43.69	29.706	
9,400.00	7,500.00	10,815.52	8,796.00	34.94	38.74	-176.88	-2,443.93	1,499.24	1,297.93	1,253.04	44.89	28.916	
9,500.00	7,500.00	10,915.52	8,796.00	35.37	39.13	-176.88	-2,543.92	1,499.68	1,297.93	1,251.82	46.10	28.152	
9,600.00	7,500.00	11,015.52	8,796.00	35.81	39.53	-176.88	-2,643.92	1,500.12	1,297.92	1,250.58	47.34	27.417	
9,700.00	7,500.00	11,115.52	8,796.00	36.26	39.94	-176.88	-2,743.92	1,500.56	1,297.92	1,249.33	48.60	26.708	
9,800.00	7,500.00	11,215.52	8,796.00	36.73	40.36	-176.88	-2,843.92	1,501.00	1,297.92	1,248.05	49.87	26.025	
9,900.00	7,500.00	11,315.52	8,796.00	37.20	40.79	-176.88	-2,943.92	1,501.44	1,297.92	1,246.76	51.16	25.369	
10,000.00	7,500.00	11,415.52	8,796.00	37.68	41.23	-176.89	-3,043.92	1,501.88	1,297.92	1,245.45	52.47	24.738	
10,100.00	7,500.00	11,515.52	8,796.00	38.17	41.68	-176.89	-3,143.92	1,502.33	1,297.92	1,244.13	53.79	24.131	
10,200.00	7,500.00	11,615.52	8,796.00	38.66	42.14	-176.89	-3,243.92	1,502.77	1,297.92	1,242.80	55.12	23.547	
10,300.00	7,500.00	11,715.52	8,796.00	39.17	42.60	-176.89	-3,343.92	1,503.21	1,297.92	1,241.45	56.46	22.986	
10,400.00	7,500.00	11,815.52	8,796.00	39.68	43.08	-176.89	-3,443.92	1,503.65	1,297.92	1,240.10	57.82	22.447	
10,500.00	7,500.00	11,915.52	8,796.00	40.20	43.56	-176.89	-3,543.91	1,504.09	1,297.92	1,238.73	59.19	21.929	
10,600.00	7,500.00	12,015.52	8,796.00	40.73	44.05	-176.89	-3,643.91	1,504.53	1,297.91	1,237.35	60.56	21.431	
10,700.00	7,500.00	12,115.52	8,796.00	41.26	44.54	-176.89	-3,743.91	1,504.97	1,297.91	1,235.96	61.95	20.951	
10,800.00	7,500.00	12,215.52	8,796.00	41.80	45.04	-176.89	-3,843.91	1,505.42	1,297.91	1,234.57	63.34	20.490	
10,900.00	7,500.00	12,315.52	8,796.00	42.35	45.55	-176.89	-3,943.91	1,505.86	1,297.91	1,233.17	64.75	20.046	
11,000.00	7,500.00	12,415.52	8,796.00	42.91	46.07	-176.89	-4,043.91	1,506.30	1,297.91	1,231.75	66.15	19.619	
11,100.00	7,500.00	12,515.52	8,796.00	43.47	46.59	-176.89	-4,143.91	1,506.74	1,297.91	1,230.34	67.57	19.208	
11,200.00	7,500.00	12,615.52	8,796.00	44.03	47.12	-176.89	-4,243.91	1,507.18	1,297.91	1,228.91	68.99	18.812	
11,300.00	7,500.00	12,715.52	8,796.00	44.61	47.66	-176.89	-4,343.91	1,507.62	1,297.91	1,227.48	70.42	18.430	
11,400.00	7,500.00	12,815.52	8,796.00	45.18	48.20	-176.90	-4,443.91	1,508.06	1,297.91	1,226.05	71.86	18.062	
11,500.00	7,500.00	12,915.52	8,796.00	45.77	48.75	-176.90	-4,543.90	1,508.50	1,297.90	1,224.60	73.30	17.707	
11,581.32	7,500.00	12,996.84	8,796.00	46.24	49.20	-176.90	-4,625.22	1,508.86	1,297.90	1,223.43	74.47	17.427	
11,600.00	7,500.00	13,015.52	8,796.00	46.35	49.30	-176.91	-4,643.90	1,508.95	1,297.89	1,223.14	74.75	17.363	
11,650.00	7,500.00	13,065.44	8,796.00	46.65	49.58	-177.03	-4,693.82	1,509.17	1,297.75	1,222.23	75.52	17.183	
11,700.00	7,500.00	13,115.11	8,796.00	46.96	49.86	-177.30	-4,743.49	1,509.39	1,297.47	1,221.11	76.36	16.992	
11,750.00	7,500.00	13,164.34	8,796.00	47.27	50.14	-177.71	-4,792.72	1,509.60	1,297.08	1,219.84	77.25	16.791	
11,800.00	7,500.00	13,212.72	8,796.00	47.59	50.41	-178.23	-4,841.10	1,509.83	1,296.66	1,218.47	78.19	16.583	
11,850.00	7,500.00	13,258.51	8,796.00	47.91	50.67	-178.76	-4,886.83	1,512.01	1,296.32	1,217.17	79.16	16.377	
11,900.00	7,500.00	13,305.35	8,796.00	48.23	50.95	-179.26	-4,933.30	1,517.76	1,296.11	1,216.01	80.10	16.180	
11,950.00	7,500.00	13,353.23	8,796.00	48.56	51.24	-179.73	-4,980.21	1,527.30	1,296.01	1,214.98	81.03	15.993	
11,980.14	7,500.00	13,382.58	8,796.00	48.75	51.42	180.00	-5,008.55	1,534.95	1,296.00	1,214.42	81.58	15.886	
12,000.00	7,500.00	13,402.12	8,796.00	48.88	51.54	179.83	-5,027.19	1,540.78	1,296.01	1,214.06	81.94	15.816	
12,050.00	7,500.00	13,451.98	8,796.00	49.20	51.84	179.43	-5,073.84	1,558.35	1,296.06	1,213.24	82.82	15.649	
12,100.00	7,500.00	13,502.75	8,796.00	49.52	52.16	179.08	-5,119.71	1,580.06	1,296.17	1,212.50	83.67	15.491	
12,150.00	7,500.00	13,554.34	8,796.00	49.83	52.47	178.78	-5,164.32	1,605.94	1,296.30	1,211.81	84.49	15.343	
12,200.00	7,500.00	13,606.65	8,796.00	50.14	52.79	178.52	-5,207.17	1,635.92	1,296.44	1,211.16	85.28	15.203	
12,250.00	7,500.00	13,659.55	8,796.00	50.44	53.10	178.32	-5,247.75	1,669.84	1,296.56	1,210.52	86.03	15.070	
12,300.00	7,500.00	13,712.91	8,796.00	50.74	53.40	178.18	-5,285.56	1,707.47	1,296.65	1,209.89	86.76	14.945	
12,350.00	7,500.00	13,766.58	8,796.00	51.02	53.69	178.10	-5,320.14	1,748.49	1,296.71	1,209.24	87.47	14.825	
12,400.00	7,500.00	13,820.38	8,796.00	51.30	53.97	178.08	-5,351.07	1,792.49	1,296.73	1,208.57	88.16	14.709	
12,450.00	7,500.00	13,874.16	8,796.00	51.56	54.23	178.12	-5,378.02	1,839.02	1,296.70	1,207.86	88.84	14.596	
12,500.00	7,500.00	13,927.75	8,796.00	51.81	54.47	178.22	-5,400.71	1,887.54	1,296.63	1,207.11	89.52	14.484	
12,550.00	7,500.00	13,980.99	8,796.00	52.05	54.68	178.38	-5,418.97	1,937.53	1,296.52	1,206.31	90.21	14.373	
12,600.00	7,500.00	14,033.72	8,796.00	52.27	54.87	178.60	-5,432.71	1,988.42	1,296.39	1,205.48	90.91	14.261	
12,650.00	7,500.00	14,085.81	8,796.00	52.48	55.03	178.87	-5,441.94	2,039.68	1,296.26	1,204.63	91.63	14.147	
12,700.00	7,500.00	14,137.15	8,796.00	52.67	55.17	179.19	-5,446.75	2,090.77	1,296.13	1,203.76	92.37	14.032	
12,750.00	7,500.00	14,187.64	8,796.00	52.84	55.28	179.56	-5,447.29	2,141.25	1,296.04	1,202.89	93.14	13.914	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,800.00	7,500.00	14,237.20	8,796.00	53.00	55.37	179.96	-5,443.78	2,190.67	1,296.00	1,202.05	93.94	13.795	
12,804.16	7,500.00	14,241.27	8,796.00	53.01	55.37	-180.00	-5,443.31	2,194.72	1,296.00	1,201.99	94.01	13.786	
12,850.00	7,500.00	14,285.77	8,796.00	53.14	55.43	-179.59	-5,436.48	2,238.68	1,296.03	1,201.26	94.77	13.675	
12,900.00	7,500.00	14,333.33	8,796.00	53.27	55.47	-179.11	-5,425.67	2,284.97	1,296.16	1,200.54	95.63	13.554	
12,950.00	7,500.00	14,379.83	8,796.00	53.37	55.49	-178.60	-5,411.65	2,329.31	1,296.41	1,199.90	96.51	13.433	
13,000.00	7,500.00	14,425.29	8,796.00	53.46	55.48	-178.06	-5,394.74	2,371.50	1,296.80	1,199.38	97.41	13.312	
13,050.00	7,500.00	14,469.71	8,796.00	53.53	55.47	-177.50	-5,375.25	2,411.39	1,297.33	1,199.00	98.33	13.193	
13,100.00	7,500.00	14,513.10	8,796.00	53.58	55.43	-176.92	-5,353.46	2,448.91	1,298.03	1,198.76	99.27	13.076	
13,150.00	7,500.00	14,555.50	8,796.00	53.62	55.39	-176.33	-5,329.66	2,483.98	1,298.91	1,198.69	100.22	12.960	
13,200.00	7,500.00	14,600.00	8,796.00	53.63	55.33	-175.68	-5,302.13	2,518.94	1,299.98	1,198.82	101.16	12.850	
13,250.00	7,500.00	14,637.42	8,796.00	53.63	55.27	-175.10	-5,277.07	2,546.72	1,301.23	1,199.09	102.14	12.740	
13,300.00	7,500.00	14,677.04	8,796.00	53.62	55.19	-174.47	-5,248.75	2,574.41	1,302.68	1,199.58	103.11	12.634	
13,350.00	7,500.00	14,715.80	8,796.00	53.58	55.11	-173.84	-5,219.36	2,599.67	1,304.32	1,200.25	104.07	12.533	
13,400.00	7,500.00	14,750.00	8,796.00	53.54	55.04	-173.25	-5,192.15	2,620.38	1,306.16	1,201.13	105.03	12.436	
13,450.00	7,500.00	14,790.97	8,796.00	53.48	54.94	-172.56	-5,158.09	2,643.15	1,308.17	1,202.19	105.98	12.344	
13,500.00	7,500.00	14,827.46	8,796.00	53.40	54.85	-171.92	-5,126.53	2,661.46	1,310.36	1,203.45	106.92	12.256	
13,550.00	7,500.00	14,863.29	8,796.00	53.32	54.75	-171.28	-5,094.55	2,677.59	1,312.72	1,204.88	107.84	12.173	
13,600.00	7,500.00	14,900.00	8,796.00	53.22	54.65	-170.62	-5,060.85	2,692.15	1,315.23	1,206.48	108.76	12.093	
13,650.00	7,500.00	14,933.07	8,796.00	53.12	54.56	-170.01	-5,029.80	2,703.51	1,317.88	1,208.24	109.64	12.020	
13,700.00	7,500.00	14,967.12	8,796.00	53.00	54.46	-169.39	-4,997.24	2,713.45	1,320.65	1,210.14	110.51	11.950	
13,750.00	7,500.00	15,000.00	8,796.00	52.88	54.37	-168.79	-4,965.32	2,721.31	1,323.53	1,212.18	111.36	11.885	
13,800.00	7,500.00	15,033.70	8,796.00	52.75	54.27	-168.17	-4,932.21	2,727.58	1,326.50	1,214.32	112.18	11.825	
13,850.00	7,500.00	15,066.30	8,796.00	52.61	54.18	-167.58	-4,899.90	2,731.90	1,329.55	1,216.58	112.97	11.769	
13,900.00	7,500.00	15,099.11	8,796.00	52.48	54.08	-167.00	-4,867.20	2,734.51	1,332.64	1,218.91	113.73	11.717	
13,950.00	7,500.00	15,141.89	8,796.00	52.33	53.96	-166.36	-4,824.46	2,736.46	1,335.55	1,221.02	114.53	11.661	
14,000.00	7,500.00	15,185.83	8,796.00	52.19	53.84	-165.83	-4,780.54	2,737.79	1,338.03	1,222.72	115.31	11.604	
14,050.00	7,500.00	15,230.01	8,796.00	52.05	53.72	-165.40	-4,736.37	2,738.45	1,340.00	1,223.95	116.05	11.547	
14,100.00	7,500.00	15,275.74	8,796.00	51.90	53.60	-165.10	-4,690.64	2,738.44	1,341.44	1,224.66	116.77	11.488	
14,105.32	7,500.00	15,281.04	8,796.00	51.89	53.58	-165.07	-4,685.34	2,738.42	1,341.55	1,224.70	116.85	11.481	
14,200.00	7,500.00	15,375.53	8,796.00	51.63	53.34	-164.80	-4,590.85	2,738.02	1,343.11	1,224.88	118.23	11.360	
14,300.00	7,500.00	15,475.48	8,796.00	51.35	53.08	-164.66	-4,490.90	2,737.59	1,343.88	1,224.22	119.66	11.231	
14,333.98	7,500.00	15,509.46	8,796.00	51.26	53.00	-164.65	-4,456.93	2,737.44	1,343.93	1,223.79	120.13	11.187	
14,400.00	7,500.00	15,575.48	8,796.00	51.09	52.84	-164.65	-4,390.90	2,737.16	1,343.93	1,222.87	121.06	11.101	
14,500.00	7,500.00	15,675.48	8,796.00	50.84	52.60	-164.65	-4,290.90	2,736.73	1,343.92	1,221.46	122.47	10.974	
14,600.00	7,500.00	15,775.48	8,796.00	50.59	52.37	-164.65	-4,190.91	2,736.30	1,343.92	1,220.05	123.87	10.849	
14,700.00	7,500.00	15,875.48	8,796.00	50.35	52.15	-164.65	-4,090.91	2,735.87	1,343.92	1,218.63	125.29	10.727	
14,800.00	7,500.00	15,975.48	8,796.00	50.12	51.94	-164.65	-3,990.91	2,735.44	1,343.91	1,217.21	126.70	10.607	
14,900.00	7,500.00	16,075.48	8,796.00	49.90	51.73	-164.65	-3,890.91	2,735.01	1,343.91	1,215.79	128.12	10.489	
15,000.00	7,500.00	16,175.48	8,796.00	49.69	51.54	-164.65	-3,790.91	2,734.58	1,343.91	1,214.36	129.55	10.374	
15,100.00	7,500.00	16,275.48	8,796.00	49.48	51.35	-164.66	-3,690.91	2,734.15	1,343.90	1,212.93	130.97	10.261	
15,200.00	7,500.00	16,375.48	8,796.00	49.28	51.17	-164.66	-3,590.91	2,733.72	1,343.90	1,211.50	132.40	10.150	
15,300.00	7,500.00	16,475.48	8,796.00	49.09	51.00	-164.66	-3,490.91	2,733.29	1,343.90	1,210.06	133.84	10.041	
15,400.00	7,500.00	16,575.48	8,796.00	48.91	50.84	-164.66	-3,390.91	2,732.86	1,343.89	1,208.62	135.27	9.935	
15,500.00	7,500.00	16,675.48	8,796.00	48.74	50.69	-164.66	-3,290.91	2,732.43	1,343.89	1,207.18	136.71	9.830	
15,600.00	7,500.00	16,775.48	8,796.00	48.57	50.55	-164.66	-3,190.91	2,732.00	1,343.89	1,205.73	138.16	9.727	
15,700.00	7,500.00	16,875.48	8,796.00	48.42	50.42	-164.66	-3,090.92	2,731.57	1,343.88	1,204.28	139.60	9.627	
15,800.00	7,500.00	16,975.48	8,796.00	48.27	50.29	-164.66	-2,990.92	2,731.14	1,343.88	1,202.83	141.05	9.528	
15,900.00	7,500.00	17,075.48	8,796.00	48.13	50.18	-164.66	-2,890.92	2,730.71	1,343.88	1,201.38	142.50	9.431	
16,000.00	7,500.00	17,175.48	8,796.00	48.01	50.08	-164.66	-2,790.92	2,730.28	1,343.87	1,199.93	143.95	9.336	
16,100.00	7,500.00	17,275.48	8,796.00	47.89	49.99	-164.66	-2,690.92	2,729.85	1,343.87	1,198.47	145.40	9.242	
16,200.00	7,500.00	17,375.48	8,796.00	47.78	49.91	-164.66	-2,590.92	2,729.42	1,343.87	1,197.01	146.86	9.151	
16,300.00	7,500.00	17,475.48	8,796.00	47.68	49.83	-164.66	-2,490.92	2,728.99	1,343.87	1,195.55	148.32	9.061	

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 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 14 Federal Com - Riverbend 14 Federal Com 8H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,400.00	7,500.00	17,575.48	8,796.00	47.59	49.77	-164.66	-2,390.92	2,728.56	1,343.86	1,194.08	149.78	8.972	
16,500.00	7,500.00	17,675.48	8,796.00	47.51	49.73	-164.66	-2,290.92	2,728.13	1,343.86	1,192.61	151.24	8.885	
16,600.00	7,500.00	17,775.48	8,796.00	47.44	49.69	-164.66	-2,190.92	2,727.70	1,343.86	1,191.14	152.71	8.800	
16,700.00	7,500.00	17,875.48	8,796.00	47.39	49.66	-164.66	-2,090.93	2,727.27	1,343.85	1,189.67	154.18	8.716	
16,800.00	7,500.00	17,975.48	8,796.00	47.34	49.65	-164.66	-1,990.93	2,726.84	1,343.85	1,188.20	155.65	8.634	
16,900.00	7,500.00	18,075.48	8,796.00	47.31	49.65	-164.66	-1,890.93	2,726.41	1,343.85	1,186.73	157.12	8.553	
17,000.00	7,500.00	18,175.48	8,796.00	47.29	49.66	-164.67	-1,790.93	2,725.98	1,343.84	1,185.25	158.59	8.474	
17,100.00	7,500.00	18,275.48	8,796.00	47.28	49.68	-164.67	-1,690.93	2,725.55	1,343.84	1,183.77	160.07	8.395	
17,200.00	7,500.00	18,375.48	8,796.00	47.28	49.72	-164.67	-1,590.93	2,725.12	1,343.84	1,182.29	161.55	8.319	
17,300.00	7,500.00	18,475.48	8,796.00	47.30	49.77	-164.67	-1,490.93	2,724.69	1,343.83	1,180.81	163.02	8.243	
17,400.00	7,500.00	18,575.48	8,796.00	47.33	49.83	-164.67	-1,390.93	2,724.26	1,343.83	1,179.33	164.50	8.169	
17,500.00	7,500.00	18,675.48	8,796.00	47.37	49.90	-164.67	-1,290.93	2,723.83	1,343.83	1,177.84	165.99	8.096	
17,600.00	7,500.00	18,775.48	8,796.00	47.43	49.99	-164.67	-1,190.93	2,723.40	1,343.82	1,176.35	167.47	8.024	
17,700.00	7,500.00	18,875.48	8,796.00	47.50	50.09	-164.67	-1,090.93	2,722.97	1,343.82	1,174.87	168.95	7.954	
17,800.00	7,500.00	18,975.48	8,796.00	47.59	50.21	-164.67	-990.94	2,722.54	1,343.82	1,173.38	170.44	7.884	
17,900.00	7,500.00	19,075.48	8,796.00	47.69	50.34	-164.67	-890.94	2,722.11	1,343.81	1,171.88	171.93	7.816	
18,000.00	7,500.00	19,175.48	8,796.00	47.81	50.48	-164.67	-790.94	2,721.68	1,343.81	1,170.39	173.42	7.749	
18,100.00	7,500.00	19,275.48	8,796.00	47.94	50.63	-164.67	-690.94	2,721.25	1,343.81	1,168.90	174.91	7.683	
18,200.00	7,500.00	19,375.48	8,796.00	48.08	50.80	-164.67	-590.94	2,720.82	1,343.80	1,167.40	176.40	7.618	
18,300.00	7,500.00	19,475.48	8,796.00	48.25	50.99	-164.67	-490.94	2,720.39	1,343.80	1,165.91	177.89	7.554	
18,400.00	7,500.00	19,575.48	8,796.00	48.42	51.18	-164.67	-390.94	2,719.96	1,343.80	1,164.41	179.39	7.491	
18,458.97	7,500.00	19,634.41	8,796.00	48.53	51.30	-164.67	-332.01	2,719.71	1,343.80	1,163.52	180.27	7.454	
18,461.64	7,500.00	19,634.41	8,796.00	48.54	51.30	-164.67	-332.01	2,719.71	1,343.80	1,163.53	180.27	7.454	
18,462.14	7,500.00	19,634.41	8,796.00	49.47	51.30	-164.67	-332.01	2,719.71	1,343.80	1,163.53	180.27	7.454	

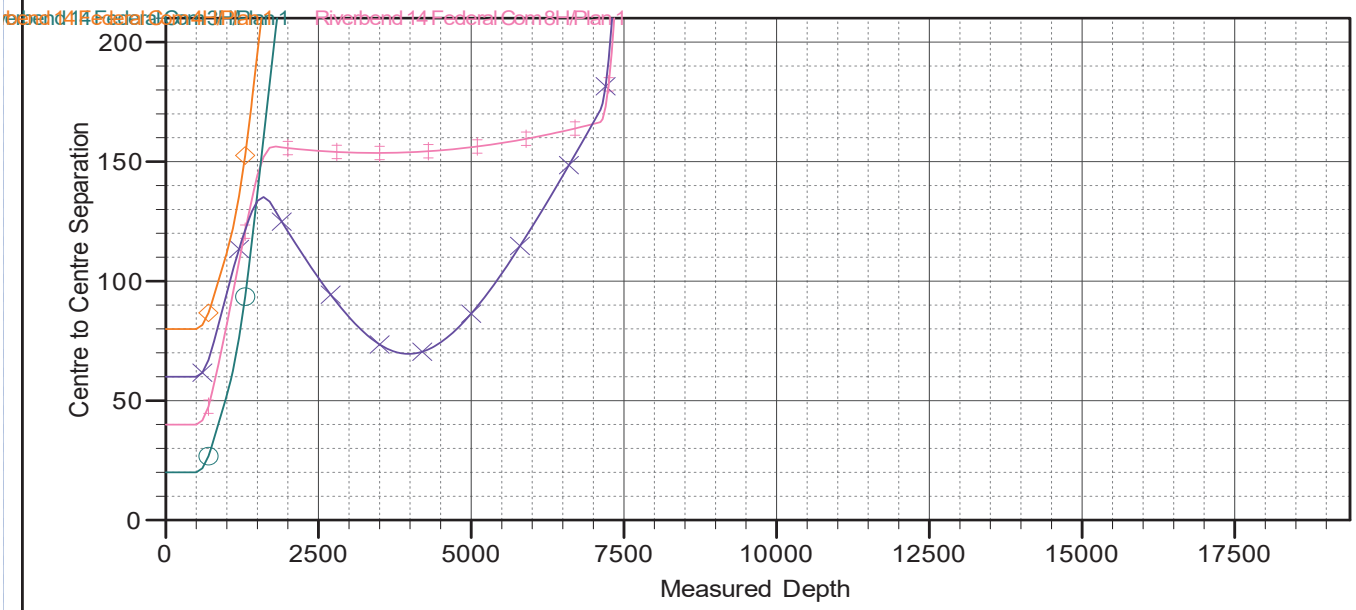
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to 2935' GL + 23 @ 2958.00usft (Cacuts 15
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Riverbend 14 Federal Com 1H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.15°

Ladder Plot



LEGEND

Riverbend 14 Federal Com 8H, OH, Plan 1 V0	Riverbend 14 Federal Com 7H, OH, Plan 1 V0	Riverbend 11-14 Fed Com 16H, OH, Svy V0
Hoss 2-11 W1AP Fed Com #2H, OH, Svy V0	Malaga 13 DM Fed Com 1H, OH, Svy V0	Riverbend 11-14 Fed Com 15H, OH, Svy V0
Riverbend 14 Federal Com 3H, OH, Plan 1 V0	Riverbend 14 Fed 2H, OH, OH Svy V0	Riverbend 11-14 Fed Com 17H, OH, Svy V0
Riverbend 14 Federal Com 4H, OH, Plan 1 V0	Riverbend 14 Fed 2H, ST01, ST01 Svy V0	Riverbend 11-14 Fed Com 7H, OH, Svy V0

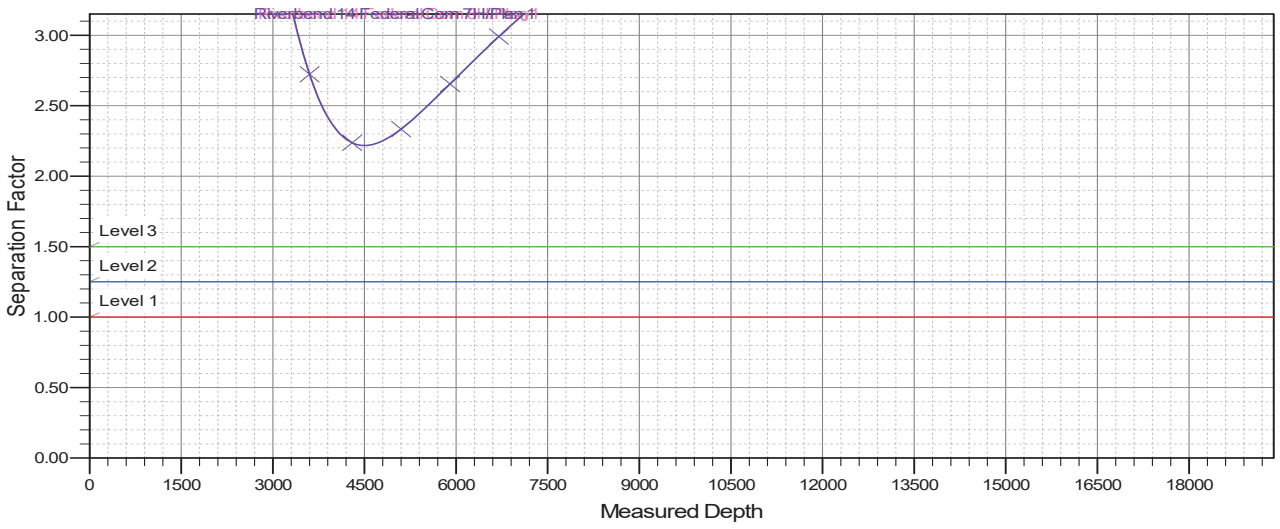
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 1H
Project:	Eddy County, NM (NAD 83)	**TVD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Reference Site:	Riverbend 14 Federal Com	**MD Reference:**	2935' GL + 23 @ 2958.00usft (Cacuts 156)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Riverbend 14 Federal Com 1H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to 2935' GL + 23 @ 2958.00usft (Cacuts 15
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Riverbend 14 Federal Com 1H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.15°

Separation Factor Plot



LEGEND

- Riverbend 14 Federal Com 8H, OH, Plan 1 V0
- Hoss 2-11 W1AP Fed Com #2H, OH, Svy V0
- Riverbend 14 Federal Com 3H, OH, Plan 1 V0
- Riverbend 14 Federal Com 4H, OH, Plan 1 V0
- Riverbend 14 Federal Com 7H, OH, Plan 1 V0
- Malaga 13 DM Fed Com 1H, OH, Svy V0
- Riverbend 14 Fed 2H, OH, OH Svy V0
- Riverbend 14 Fed 2H, ST01, ST01 Svy V0
- Riverbend 11-14 Fed Com 16H, OH, Svy V0
- Riverbend 11-14 Fed Com 15H, OH, Svy V0
- Riverbend 11-14 Fed Com 17H, OH, Svy V0
- Riverbend 11-14 Fed Com 7H, OH, Svy V0

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

WELL INFO	
MAP DATUM	North American Datum 1983
MAP SYSTEM	US State Plane 1983
MAP ZONE	New Mexico Eastern Zone
WELL LAT	32.138126
WELL LON	-104.060432
WELL EW MAI	625806.83
WELL NS MAP	414092.97
CONVERGENC	0.15
MAGMODEL	HDGM2025
DECLINATION	6.43
NORTH REF	Grid
GROUND ELEV	2935
KB ELEVN	2958
VS AZI	179.75

SURVEY PROGRAM

1 0.00 - 18461.63 PLAN 1 : MWD+IFR1+MS

SURVEY LIST

Measured Dep	Inclination	Azimuth	Course Length	True Vertical D	SubSea TVD	Local N/-S
MD	INC	AZI	CL	TVD	SSTVD	NS
0.00	0.00	0.00	0.00	0.00	2958.00	0.00
100.00	0.00	0.00	100.00	100.00	2858.00	0.00
200.00	0.00	0.00	100.00	200.00	2758.00	0.00
300.00	0.00	0.00	100.00	300.00	2658.00	0.00
400.00	0.00	0.00	100.00	400.00	2558.00	0.00
500.00	0.00	0.00	100.00	500.00	2458.00	0.00
600.00	2.00	104.32	100.00	599.98	2358.02	-0.43
700.00	4.00	104.32	100.00	699.84	2258.16	-1.73
750.00	5.00	104.32	50.00	749.68	2208.32	-2.70
800.00	5.00	104.32	50.00	799.49	2158.51	-3.77
900.00	5.00	104.32	100.00	899.11	2058.89	-5.93
1001.27	5.00	104.32	101.27	1000.00	1958.00	-8.11
1100.00	6.96	106.33	98.73	1098.18	1859.82	-10.86
1200.00	8.96	107.47	100.00	1197.22	1760.78	-14.90

1300.00	10.95	108.20	100.00	1295.71	1662.30	-20.21
1400.00	12.95	108.70	100.00	1393.53	1564.47	-26.77
1414.82	13.25	108.76	14.82	1407.97	1550.03	-27.85
1500.00	13.25	108.76	85.18	1490.88	1467.12	-34.12
1600.00	13.25	108.76	100.00	1588.22	1369.78	-41.50
1700.00	13.25	108.76	100.00	1685.56	1272.44	-48.87
1800.00	13.25	108.76	100.00	1782.90	1175.10	-56.24
1900.00	13.25	108.76	100.00	1880.24	1077.76	-63.61
2000.00	13.25	108.76	100.00	1977.58	980.43	-70.98
2100.00	13.25	108.76	100.00	2074.92	883.09	-78.35
2200.00	13.25	108.76	100.00	2172.25	785.75	-85.72
2300.00	13.25	108.76	100.00	2269.59	688.41	-93.09
2400.00	13.25	108.76	100.00	2366.93	591.07	-100.46
2500.00	13.25	108.76	100.00	2464.27	493.73	-107.83
2600.00	13.25	108.76	100.00	2561.61	396.39	-115.20
2700.00	13.25	108.76	100.00	2658.95	299.05	-122.58
2800.00	13.25	108.76	100.00	2756.29	201.71	-129.95
2900.00	13.25	108.76	100.00	2853.63	104.37	-137.32
3000.00	13.25	108.76	100.00	2950.97	7.03	-144.69
3100.00	13.25	108.76	100.00	3048.31	-90.31	-152.06
3200.00	13.25	108.76	100.00	3145.65	-187.65	-159.43
3300.00	13.25	108.76	100.00	3242.98	-284.98	-166.80
3400.00	13.25	108.76	100.00	3340.32	-382.32	-174.17
3500.00	13.25	108.76	100.00	3437.66	-479.66	-181.54
3600.00	13.25	108.76	100.00	3535.00	-577.00	-188.91
3700.00	13.25	108.76	100.00	3632.34	-674.34	-196.28
3800.00	13.25	108.76	100.00	3729.68	-771.68	-203.65
3900.00	13.25	108.76	100.00	3827.02	-869.02	-211.03
4000.00	13.25	108.76	100.00	3924.36	-966.36	-218.40
4100.00	13.25	108.76	100.00	4021.70	-1063.70	-225.77
4200.00	13.25	108.76	100.00	4119.04	-1161.04	-233.14
4300.00	13.25	108.76	100.00	4216.38	-1258.38	-240.51
4400.00	13.25	108.76	100.00	4313.71	-1355.71	-247.88
4500.00	13.25	108.76	100.00	4411.05	-1453.05	-255.25
4600.00	13.25	108.76	100.00	4508.39	-1550.39	-262.62
4700.00	13.25	108.76	100.00	4605.73	-1647.73	-269.99
4800.00	13.25	108.76	100.00	4703.07	-1745.07	-277.36
4900.00	13.25	108.76	100.00	4800.41	-1842.41	-284.73
5000.00	13.25	108.76	100.00	4897.75	-1939.75	-292.11
5100.00	13.25	108.76	100.00	4995.09	-2037.09	-299.48
5200.00	13.25	108.76	100.00	5092.43	-2134.43	-306.85
5300.00	13.25	108.76	100.00	5189.77	-2231.77	-314.22
5400.00	13.25	108.76	100.00	5287.11	-2329.11	-321.59
5500.00	13.25	108.76	100.00	5384.44	-2426.44	-328.96

5600.00	13.25	108.76	100.00	5481.78	-2523.78	-336.33
5700.00	13.25	108.76	100.00	5579.12	-2621.12	-343.70
5800.00	13.25	108.76	100.00	5676.46	-2718.46	-351.07
5900.00	13.25	108.76	100.00	5773.80	-2815.80	-358.44
6000.00	13.25	108.76	100.00	5871.14	-2913.14	-365.81
6100.00	13.25	108.76	100.00	5968.48	-3010.48	-373.19
6200.00	13.25	108.76	100.00	6065.82	-3107.82	-380.56
6300.00	13.25	108.76	100.00	6163.16	-3205.16	-387.93
6400.00	13.25	108.76	100.00	6260.50	-3302.50	-395.30
6500.00	13.25	108.76	100.00	6357.84	-3399.84	-402.67
6600.00	13.25	108.76	100.00	6455.17	-3497.17	-410.04
6700.00	13.25	108.76	100.00	6552.51	-3594.51	-417.41
6800.00	13.25	108.76	100.00	6649.85	-3691.85	-424.78
6900.00	13.25	108.76	100.00	6747.19	-3789.19	-432.15
7000.00	13.25	108.76	100.00	6844.53	-3886.53	-439.52
7100.00	13.25	108.76	100.00	6941.87	-3983.87	-446.89
7115.01	13.25	108.76	15.01	6956.48	-3998.48	-448.00
7150.00	14.55	122.33	34.99	6990.45	-4032.45	-451.64
7200.00	17.47	137.14	50.00	7038.53	-4080.53	-460.51
7250.00	21.17	147.38	50.00	7085.72	-4127.72	-473.62
7300.00	25.29	154.56	50.00	7131.67	-4173.67	-490.88
7350.00	29.68	159.79	50.00	7176.02	-4218.02	-512.16
7400.00	34.22	163.76	50.00	7218.44	-4260.44	-537.28
7450.00	38.86	166.89	50.00	7258.60	-4300.60	-566.08
7500.00	43.57	169.45	50.00	7296.21	-4338.21	-598.31
7550.00	48.32	171.59	50.00	7330.97	-4372.97	-633.74
7600.00	53.11	173.44	50.00	7362.62	-4404.62	-672.11
7650.00	57.93	175.07	50.00	7390.92	-4432.92	-713.10
7700.00	62.77	176.54	50.00	7415.65	-4457.65	-756.43
7750.00	67.62	177.88	50.00	7436.62	-4478.62	-801.74
7800.00	72.47	179.14	50.00	7453.68	-4495.68	-848.71
7825.96	75.00	179.76	25.96	7460.95	-4502.95	-873.62
7900.00	78.70	179.75	74.04	7477.79	-4519.79	-945.71
8000.00	83.70	179.75	100.00	7493.08	-4535.08	-1044.51
8100.00	88.70	179.74	100.00	7499.70	-4541.70	-1144.25
8125.95	90.00	179.74	25.95	7499.99	-4541.99	-1170.20
8200.00	90.00	179.74	74.05	7499.99	-4541.99	-1244.25
8300.00	90.00	179.74	100.00	7499.99	-4541.99	-1344.25
8400.00	90.00	179.74	100.00	7499.99	-4541.99	-1444.25
8500.00	90.00	179.74	100.00	7500.00	-4542.00	-1544.25
8600.00	90.00	179.74	100.00	7500.00	-4542.00	-1644.25
8700.00	90.00	179.74	100.00	7500.00	-4542.00	-1744.24
8800.00	90.00	179.74	100.00	7500.00	-4542.00	-1844.24
8900.00	90.00	179.74	100.00	7500.00	-4542.00	-1944.24

9000.00	90.00	179.74	100.00	7500.00	-4542.00	-2044.24
9100.00	90.00	179.74	100.00	7500.00	-4542.00	-2144.24
9200.00	90.00	179.74	100.00	7500.00	-4542.00	-2244.24
9300.00	90.00	179.74	100.00	7500.00	-4542.00	-2344.24
9400.00	90.00	179.74	100.00	7500.00	-4542.00	-2444.24
9500.00	90.00	179.74	100.00	7500.00	-4542.00	-2544.24
9600.00	90.00	179.74	100.00	7500.00	-4542.00	-2644.23
9700.00	90.00	179.74	100.00	7500.00	-4542.00	-2744.23
9800.00	90.00	179.74	100.00	7500.00	-4542.00	-2844.23
9900.00	90.00	179.74	100.00	7500.00	-4542.00	-2944.23
10000.00	90.00	179.74	100.00	7500.00	-4542.00	-3044.23
10100.00	90.00	179.74	100.00	7500.00	-4542.00	-3144.23
10200.00	90.00	179.74	100.00	7500.00	-4542.00	-3244.23
10300.00	90.00	179.74	100.00	7500.00	-4542.00	-3344.23
10400.00	90.00	179.74	100.00	7500.00	-4542.00	-3444.23
10500.00	90.00	179.74	100.00	7500.00	-4542.00	-3544.23
10600.00	90.00	179.74	100.00	7500.00	-4542.00	-3644.22
10700.00	90.00	179.74	100.00	7500.00	-4542.00	-3744.22
10800.00	90.00	179.74	100.00	7500.00	-4542.00	-3844.22
10900.00	90.00	179.74	100.00	7500.00	-4542.00	-3944.22
11000.00	90.00	179.74	100.00	7500.00	-4542.00	-4044.22
11100.00	90.00	179.74	100.00	7500.00	-4542.00	-4144.22
11200.00	90.00	179.74	100.00	7500.00	-4542.00	-4244.22
11300.00	90.00	179.74	100.00	7500.00	-4542.00	-4344.22
11400.00	90.00	179.74	100.00	7500.00	-4542.00	-4444.22
11500.00	90.00	179.74	100.00	7500.00	-4542.00	-4544.21
11581.32	90.00	179.74	81.32	7500.00	-4542.00	-4625.53
11600.00	90.00	178.44	18.68	7500.00	-4542.00	-4644.21
11650.00	90.00	174.96	50.00	7500.00	-4542.00	-4694.12
11700.00	90.00	171.49	50.00	7500.00	-4542.00	-4743.76
11750.00	90.00	168.01	50.00	7500.00	-4542.00	-4792.96
11800.00	90.00	164.54	50.00	7500.00	-4542.00	-4841.52
11850.00	90.00	161.06	50.00	7500.00	-4542.00	-4889.28
11900.00	90.00	157.59	50.00	7500.00	-4542.00	-4936.05
11950.00	90.00	154.11	50.00	7500.00	-4542.00	-4981.67
12000.00	90.00	150.64	50.00	7500.00	-4542.00	-5025.97
12050.00	90.00	147.16	50.00	7500.00	-4542.00	-5068.77
12100.00	90.00	143.69	50.00	7500.00	-4542.00	-5109.94
12150.00	90.00	140.21	50.00	7500.00	-4542.00	-5149.31
12200.00	90.00	136.74	50.00	7500.00	-4542.00	-5186.73
12250.00	90.00	133.26	50.00	7500.00	-4542.00	-5222.09
12300.00	90.00	129.79	50.00	7500.00	-4542.00	-5255.23
12350.00	90.00	126.31	50.00	7500.00	-4542.00	-5286.04
12400.00	90.00	122.84	50.00	7500.00	-4542.00	-5314.41

12450.00	90.00	119.36	50.00	7500.00	-4542.00	-5340.24
12500.00	90.00	115.89	50.00	7500.00	-4542.00	-5363.42
12550.00	90.00	112.41	50.00	7500.00	-4542.00	-5383.87
12600.00	90.00	108.94	50.00	7500.00	-4542.00	-5401.53
12650.00	90.00	105.46	50.00	7500.00	-4542.00	-5416.31
12700.00	90.00	101.99	50.00	7500.00	-4542.00	-5428.17
12750.00	90.00	98.51	50.00	7500.00	-4542.00	-5437.07
12800.00	90.00	95.04	50.00	7500.00	-4542.00	-5442.97
12850.00	90.00	91.56	50.00	7500.00	-4542.00	-5445.85
12900.00	90.00	88.09	50.00	7500.00	-4542.00	-5445.70
12950.00	90.00	84.61	50.00	7500.00	-4542.00	-5442.52
13000.00	90.00	81.14	50.00	7500.00	-4542.00	-5436.32
13050.00	90.00	77.66	50.00	7500.00	-4542.00	-5427.12
13100.00	90.00	74.19	50.00	7500.00	-4542.00	-5414.97
13150.00	90.00	70.71	50.00	7500.00	-4542.00	-5399.89
13200.00	90.00	67.24	50.00	7500.00	-4542.00	-5381.96
13250.00	90.00	63.76	50.00	7500.00	-4542.00	-5361.23
13300.00	90.00	60.29	50.00	7500.00	-4542.00	-5337.78
13350.00	90.00	56.81	50.00	7500.00	-4542.00	-5311.70
13400.00	90.00	53.34	50.00	7500.00	-4542.00	-5283.08
13450.00	90.00	49.86	50.00	7500.00	-4542.00	-5252.03
13500.00	90.00	46.39	50.00	7500.00	-4542.00	-5218.66
13550.00	90.00	42.91	50.00	7500.00	-4542.00	-5183.09
13600.00	90.00	39.44	50.00	7500.00	-4542.00	-5145.47
13650.00	90.00	35.96	50.00	7500.00	-4542.00	-5105.91
13700.00	90.00	32.49	50.00	7500.00	-4542.00	-5064.58
13750.00	90.00	29.01	50.00	7500.00	-4542.00	-5021.61
13800.00	90.00	25.54	50.00	7500.00	-4542.00	-4977.18
13850.00	90.00	22.06	50.00	7500.00	-4542.00	-4931.44
13900.00	90.00	18.59	50.00	7500.00	-4542.00	-4884.56
13950.00	90.00	15.11	50.00	7500.00	-4542.00	-4836.72
14000.00	90.00	11.64	50.00	7500.00	-4542.00	-4788.08
14050.00	90.00	8.16	50.00	7500.00	-4542.00	-4738.83
14100.00	90.00	4.69	50.00	7500.00	-4542.00	-4689.15
14105.32	90.00	4.32	5.32	7500.00	-4542.00	-4683.85
14200.00	90.00	2.43	94.68	7500.00	-4542.00	-4589.34
14300.00	90.00	0.43	100.00	7500.00	-4542.00	-4489.37
14333.98	90.00	359.75	33.98	7500.00	-4542.00	-4455.40
14400.00	90.00	359.75	66.02	7500.00	-4542.00	-4389.38
14500.00	90.00	359.75	100.00	7500.00	-4542.00	-4289.38
14600.00	90.00	359.75	100.00	7500.00	-4542.00	-4189.38
14700.00	90.00	359.75	100.00	7500.00	-4542.00	-4089.38
14800.00	90.00	359.75	100.00	7500.00	-4542.00	-3989.38
14900.00	90.00	359.75	100.00	7500.00	-4542.00	-3889.38

15000.00	90.00	359.75	100.00	7500.00	-4542.00	-3789.38
15100.00	90.00	359.75	100.00	7500.00	-4542.00	-3689.38
15200.00	90.00	359.75	100.00	7500.00	-4542.00	-3589.38
15300.00	90.00	359.75	100.00	7500.00	-4542.00	-3489.38
15400.00	90.00	359.75	100.00	7500.00	-4542.00	-3389.39
15500.00	90.00	359.75	100.00	7500.00	-4542.00	-3289.39
15600.00	90.00	359.75	100.00	7500.00	-4542.00	-3189.39
15700.00	90.00	359.75	100.00	7500.00	-4542.00	-3089.39
15800.00	90.00	359.75	100.00	7500.00	-4542.00	-2989.39
15900.00	90.00	359.75	100.00	7500.00	-4542.00	-2889.39
16000.00	90.00	359.75	100.00	7500.00	-4542.00	-2789.39
16100.00	90.00	359.75	100.00	7500.00	-4542.00	-2689.39
16200.00	90.00	359.75	100.00	7500.00	-4542.00	-2589.39
16300.00	90.00	359.75	100.00	7500.00	-4542.00	-2489.39
16400.00	90.00	359.75	100.00	7500.00	-4542.00	-2389.39
16500.00	90.00	359.75	100.00	7500.00	-4542.00	-2289.40
16600.00	90.00	359.75	100.00	7500.00	-4542.00	-2189.40
16700.00	90.00	359.75	100.00	7500.00	-4542.00	-2089.40
16800.00	90.00	359.75	100.00	7500.00	-4542.00	-1989.40
16900.00	90.00	359.75	100.00	7500.00	-4542.00	-1889.40
17000.00	90.00	359.75	100.00	7500.00	-4542.00	-1789.40
17100.00	90.00	359.75	100.00	7500.00	-4542.00	-1689.40
17200.00	90.00	359.75	100.00	7500.00	-4542.00	-1589.40
17300.00	90.00	359.75	100.00	7500.00	-4542.00	-1489.40
17400.00	90.00	359.75	100.00	7500.00	-4542.00	-1389.40
17500.00	90.00	359.75	100.00	7500.00	-4542.00	-1289.41
17600.00	90.00	359.75	100.00	7500.00	-4542.00	-1189.41
17700.00	90.00	359.75	100.00	7500.00	-4542.00	-1089.41
17800.00	90.00	359.75	100.00	7500.00	-4542.00	-989.41
17900.00	90.00	359.75	100.00	7500.00	-4542.00	-889.41
18000.00	90.00	359.75	100.00	7500.00	-4542.00	-789.41
18100.00	90.00	359.75	100.00	7500.00	-4542.00	-689.41
18200.00	90.00	359.75	100.00	7500.00	-4542.00	-589.41
18300.00	90.00	359.75	100.00	7500.00	-4542.00	-489.41
18400.00	90.00	359.75	100.00	7500.00	-4542.00	-389.41
18461.64	90.00	359.75	61.64	7500.00	-4542.00	-327.78

Local E/-W	Easting	Northing	Latitude	Longitude	Dogleg Severit	Build Rate
EW	X	Y	LAT	LON	DLS	BLD
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
0.00	625806.83	414092.97	32.138126	-104.060432	0.00	0.00
1.69	625808.52	414092.54	32.138125	-104.060426	2.00	2.00
6.76	625813.59	414091.24	32.138121	-104.060410	2.00	2.00
10.56	625817.39	414090.27	32.138119	-104.060398	2.00	2.00
14.79	625821.62	414089.20	32.138116	-104.060384	0.00	0.00
23.23	625830.06	414087.04	32.138110	-104.060357	0.00	0.00
31.78	625838.61	414084.86	32.138104	-104.060329	0.00	0.00
41.70	625848.53	414082.11	32.138096	-104.060297	2.00	1.99
54.94	625861.77	414078.07	32.138085	-104.060254	2.00	1.99

71.39	625878.22	414072.76	32.138070	-104.060201	2.00	2.00
91.04	625897.87	414066.20	32.138052	-104.060138	2.00	2.00
94.22	625901.05	414065.12	32.138049	-104.060128	2.00	2.00
112.70	625919.53	414058.85	32.138032	-104.060068	0.00	0.00
134.40	625941.23	414051.48	32.138011	-104.059998	0.00	0.00
156.09	625962.92	414044.10	32.137991	-104.059928	0.00	0.00
177.79	625984.62	414036.73	32.137970	-104.059858	0.00	0.00
199.49	626006.32	414029.36	32.137950	-104.059788	0.00	0.00
221.18	626028.01	414021.99	32.137929	-104.059718	0.00	0.00
242.88	626049.71	414014.62	32.137909	-104.059648	0.00	0.00
264.58	626071.41	414007.25	32.137889	-104.059578	0.00	0.00
286.28	626093.11	413999.88	32.137868	-104.059508	0.00	0.00
307.97	626114.80	413992.51	32.137848	-104.059438	0.00	0.00
329.67	626136.50	413985.14	32.137827	-104.059367	0.00	0.00
351.37	626158.20	413977.77	32.137807	-104.059297	0.00	0.00
373.07	626179.90	413970.40	32.137787	-104.059227	0.00	0.00
394.76	626201.59	413963.02	32.137766	-104.059157	0.00	0.00
416.46	626223.29	413955.65	32.137746	-104.059087	0.00	0.00
438.16	626244.99	413948.28	32.137725	-104.059017	0.00	0.00
459.85	626266.68	413940.91	32.137705	-104.058947	0.00	0.00
481.55	626288.38	413933.54	32.137685	-104.058877	0.00	0.00
503.25	626310.08	413926.17	32.137664	-104.058807	0.00	0.00
524.95	626331.78	413918.80	32.137644	-104.058737	0.00	0.00
546.64	626353.47	413911.43	32.137623	-104.058667	0.00	0.00
568.34	626375.17	413904.06	32.137603	-104.058597	0.00	0.00
590.04	626396.87	413896.69	32.137582	-104.058527	0.00	0.00
611.73	626418.56	413889.32	32.137562	-104.058457	0.00	0.00
633.43	626440.26	413881.95	32.137542	-104.058387	0.00	0.00
655.13	626461.96	413874.57	32.137521	-104.058317	0.00	0.00
676.83	626483.66	413867.20	32.137501	-104.058247	0.00	0.00
698.52	626505.35	413859.83	32.137480	-104.058177	0.00	0.00
720.22	626527.05	413852.46	32.137460	-104.058107	0.00	0.00
741.92	626548.75	413845.09	32.137440	-104.058037	0.00	0.00
763.62	626570.45	413837.72	32.137419	-104.057967	0.00	0.00
785.31	626592.14	413830.35	32.137399	-104.057897	0.00	0.00
807.01	626613.84	413822.98	32.137378	-104.057827	0.00	0.00
828.71	626635.54	413815.61	32.137358	-104.057757	0.00	0.00
850.40	626657.23	413808.24	32.137337	-104.057687	0.00	0.00
872.10	626678.93	413800.87	32.137317	-104.057617	0.00	0.00
893.80	626700.63	413793.49	32.137297	-104.057547	0.00	0.00
915.50	626722.33	413786.12	32.137276	-104.057476	0.00	0.00
937.19	626744.02	413778.75	32.137256	-104.057406	0.00	0.00
958.89	626765.72	413771.38	32.137235	-104.057336	0.00	0.00
980.59	626787.42	413764.01	32.137215	-104.057266	0.00	0.00

1002.29	626809.12	413756.64	32.137195	-104.057196	0.00	0.00
1023.98	626830.81	413749.27	32.137174	-104.057126	0.00	0.00
1045.68	626852.51	413741.90	32.137154	-104.057056	0.00	0.00
1067.38	626874.21	413734.53	32.137133	-104.056986	0.00	0.00
1089.07	626895.90	413727.16	32.137113	-104.056916	0.00	0.00
1110.77	626917.60	413719.79	32.137092	-104.056846	0.00	0.00
1132.47	626939.30	413712.41	32.137072	-104.056776	0.00	0.00
1154.17	626961.00	413705.04	32.137052	-104.056706	0.00	0.00
1175.86	626982.69	413697.67	32.137031	-104.056636	0.00	0.00
1197.56	627004.39	413690.30	32.137011	-104.056566	0.00	0.00
1219.26	627026.09	413682.93	32.136990	-104.056496	0.00	0.00
1240.95	627047.78	413675.56	32.136970	-104.056426	0.00	0.00
1262.65	627069.48	413668.19	32.136950	-104.056356	0.00	0.00
1284.35	627091.18	413660.82	32.136929	-104.056286	0.00	0.00
1306.05	627112.88	413653.45	32.136909	-104.056216	0.00	0.00
1327.74	627134.57	413646.08	32.136888	-104.056146	0.00	0.00
1331.00	627137.83	413644.97	32.136885	-104.056135	0.00	0.00
1338.51	627145.34	413641.33	32.136875	-104.056111	10.00	3.72
1348.93	627155.76	413632.46	32.136851	-104.056077	10.00	5.84
1358.91	627165.74	413619.35	32.136815	-104.056045	10.00	7.39
1368.37	627175.20	413602.09	32.136767	-104.056015	10.00	8.26
1377.24	627184.07	413580.82	32.136709	-104.055986	10.00	8.77
1385.45	627192.28	413555.69	32.136639	-104.055960	10.00	9.08
1392.95	627199.78	413526.90	32.136560	-104.055936	10.00	9.28
1399.66	627206.49	413494.66	32.136472	-104.055915	10.00	9.42
1405.55	627212.38	413459.23	32.136374	-104.055896	10.00	9.51
1410.57	627217.40	413420.87	32.136269	-104.055880	10.00	9.58
1414.67	627221.50	413379.87	32.136156	-104.055867	10.00	9.63
1417.84	627224.67	413336.54	32.136037	-104.055857	10.00	9.67
1420.03	627226.86	413291.23	32.135912	-104.055851	10.00	9.70
1421.25	627228.08	413244.26	32.135783	-104.055847	10.00	9.72
1421.49	627228.32	413219.35	32.135715	-104.055846	10.00	9.73
1421.79	627228.62	413147.26	32.135516	-104.055846	5.00	5.00
1422.22	627229.05	413048.47	32.135245	-104.055846	5.00	5.00
1422.67	627229.50	412948.72	32.134971	-104.055845	5.00	5.00
1422.79	627229.62	412922.77	32.134899	-104.055845	5.00	5.00
1423.13	627229.96	412848.72	32.134696	-104.055844	0.00	0.00
1423.58	627230.41	412748.72	32.134421	-104.055844	0.00	0.00
1424.04	627230.87	412648.72	32.134146	-104.055843	0.00	0.00
1424.50	627231.33	412548.72	32.133871	-104.055842	0.00	0.00
1424.96	627231.79	412448.73	32.133596	-104.055842	0.00	0.00
1425.41	627232.24	412348.73	32.133321	-104.055841	0.00	0.00
1425.87	627232.70	412248.73	32.133046	-104.055840	0.00	0.00
1426.33	627233.16	412148.73	32.132772	-104.055840	0.00	0.00

1426.79	627233.62	412048.73	32.132497	-104.055839	0.00	0.00
1427.24	627234.07	411948.73	32.132222	-104.055838	0.00	0.00
1427.70	627234.53	411848.73	32.131947	-104.055838	0.00	0.00
1428.16	627234.99	411748.73	32.131672	-104.055837	0.00	0.00
1428.62	627235.45	411648.73	32.131397	-104.055837	0.00	0.00
1429.08	627235.91	411548.74	32.131122	-104.055836	0.00	0.00
1429.53	627236.36	411448.74	32.130847	-104.055835	0.00	0.00
1429.99	627236.82	411348.74	32.130572	-104.055835	0.00	0.00
1430.45	627237.28	411248.74	32.130298	-104.055834	0.00	0.00
1430.91	627237.74	411148.74	32.130023	-104.055833	0.00	0.00
1431.36	627238.19	411048.74	32.129748	-104.055833	0.00	0.00
1431.82	627238.65	410948.74	32.129473	-104.055832	0.00	0.00
1432.28	627239.11	410848.74	32.129198	-104.055831	0.00	0.00
1432.74	627239.57	410748.74	32.128923	-104.055831	0.00	0.00
1433.19	627240.02	410648.74	32.128648	-104.055830	0.00	0.00
1433.65	627240.48	410548.75	32.128373	-104.055829	0.00	0.00
1434.11	627240.94	410448.75	32.128098	-104.055829	0.00	0.00
1434.57	627241.40	410348.75	32.127824	-104.055828	0.00	0.00
1435.02	627241.85	410248.75	32.127549	-104.055827	0.00	0.00
1435.48	627242.31	410148.75	32.127274	-104.055827	0.00	0.00
1435.94	627242.77	410048.75	32.126999	-104.055826	0.00	0.00
1436.40	627243.23	409948.75	32.126724	-104.055826	0.00	0.00
1436.86	627243.69	409848.75	32.126449	-104.055825	0.00	0.00
1437.31	627244.14	409748.75	32.126174	-104.055824	0.00	0.00
1437.77	627244.60	409648.75	32.125899	-104.055824	0.00	0.00
1438.23	627245.06	409548.76	32.125624	-104.055823	0.00	0.00
1438.60	627245.43	409467.44	32.125401	-104.055822	0.00	0.00
1438.90	627245.73	409448.76	32.125349	-104.055822	6.95	0.00
1441.77	627248.60	409398.85	32.125212	-104.055813	6.95	0.00
1447.67	627254.50	409349.21	32.125076	-104.055794	6.95	0.00
1456.56	627263.39	409300.01	32.124940	-104.055766	6.95	0.00
1468.42	627275.25	409251.45	32.124807	-104.055728	6.95	0.00
1483.21	627290.04	409203.69	32.124675	-104.055681	6.95	0.00
1500.85	627307.68	409156.92	32.124547	-104.055624	6.95	0.00
1521.31	627328.14	409111.30	32.124421	-104.055558	6.95	0.00
1544.49	627351.32	409067.00	32.124299	-104.055484	6.95	0.00
1570.31	627377.14	409024.20	32.124181	-104.055401	6.95	0.00
1598.68	627405.51	408983.03	32.124068	-104.055309	6.95	0.00
1629.49	627436.32	408943.66	32.123960	-104.055210	6.95	0.00
1662.63	627469.46	408906.24	32.123857	-104.055103	6.95	0.00
1697.98	627504.81	408870.89	32.123759	-104.054990	6.95	0.00
1735.40	627542.23	408837.74	32.123668	-104.054869	6.95	0.00
1774.77	627581.60	408806.93	32.123583	-104.054742	6.95	0.00
1815.93	627622.76	408778.56	32.123504	-104.054609	6.95	0.00

1858.74	627665.57	408752.73	32.123433	-104.054471	6.95	0.00
1903.03	627709.86	408729.55	32.123369	-104.054328	6.95	0.00
1948.65	627755.48	408709.10	32.123313	-104.054181	6.95	0.00
1995.42	627802.25	408691.44	32.123264	-104.054030	6.95	0.00
2043.18	627850.01	408676.66	32.123223	-104.053876	6.95	0.00
2091.74	627898.57	408664.80	32.123190	-104.053719	6.95	0.00
2140.93	627947.76	408655.90	32.123165	-104.053560	6.95	0.00
2190.58	627997.41	408650.00	32.123148	-104.053400	6.95	0.00
2240.49	628047.32	408647.12	32.123140	-104.053239	6.95	0.00
2290.48	628097.31	408647.27	32.123140	-104.053077	6.95	0.00
2340.37	628147.20	408650.45	32.123149	-104.052916	6.95	0.00
2389.98	628196.81	408656.65	32.123165	-104.052756	6.95	0.00
2439.12	628245.95	408665.85	32.123190	-104.052597	6.95	0.00
2487.61	628294.44	408678.00	32.123223	-104.052440	6.95	0.00
2535.27	628342.10	408693.08	32.123264	-104.052286	6.95	0.00
2581.94	628388.77	408711.01	32.123313	-104.052135	6.95	0.00
2627.43	628434.26	408731.74	32.123370	-104.051988	6.95	0.00
2671.58	628478.41	408755.19	32.123434	-104.051846	6.95	0.00
2714.23	628521.06	408781.27	32.123506	-104.051708	6.95	0.00
2755.22	628562.05	408809.89	32.123584	-104.051575	6.95	0.00
2794.40	628601.23	408840.94	32.123669	-104.051448	6.95	0.00
2831.63	628638.46	408874.31	32.123760	-104.051328	6.95	0.00
2866.76	628673.59	408909.88	32.123858	-104.051214	6.95	0.00
2899.67	628706.50	408947.51	32.123961	-104.051107	6.95	0.00
2930.25	628737.08	408987.06	32.124070	-104.051008	6.95	0.00
2958.37	628765.20	409028.39	32.124183	-104.050917	6.95	0.00
2983.93	628790.76	409071.36	32.124301	-104.050834	6.95	0.00
3006.84	628813.67	409115.79	32.124423	-104.050760	6.95	0.00
3027.01	628833.84	409161.53	32.124549	-104.050694	6.95	0.00
3044.38	628851.21	409208.41	32.124677	-104.050637	6.95	0.00
3058.87	628865.70	409256.26	32.124809	-104.050590	6.95	0.00
3070.44	628877.27	409304.89	32.124942	-104.050552	6.95	0.00
3079.04	628885.87	409354.14	32.125078	-104.050524	6.95	0.00
3084.63	628891.46	409403.82	32.125214	-104.050506	6.95	0.00
3085.05	628891.88	409409.12	32.125229	-104.050504	6.95	0.00
3090.62	628897.45	409503.63	32.125489	-104.050486	2.00	0.00
3093.11	628899.94	409603.60	32.125763	-104.050477	2.00	0.00
3093.16	628899.99	409637.57	32.125857	-104.050476	2.00	0.00
3092.87	628899.70	409703.60	32.126038	-104.050477	0.00	0.00
3092.43	628899.26	409803.59	32.126313	-104.050477	0.00	0.00
3091.98	628898.81	409903.59	32.126588	-104.050478	0.00	0.00
3091.54	628898.37	410003.59	32.126863	-104.050478	0.00	0.00
3091.10	628897.93	410103.59	32.127138	-104.050479	0.00	0.00
3090.66	628897.49	410203.59	32.127413	-104.050480	0.00	0.00

3090.21	628897.04	410303.59	32.127688	-104.050480	0.00	0.00
3089.77	628896.60	410403.59	32.127962	-104.050481	0.00	0.00
3089.33	628896.16	410503.59	32.128237	-104.050481	0.00	0.00
3088.89	628895.72	410603.59	32.128512	-104.050482	0.00	0.00
3088.44	628895.27	410703.59	32.128787	-104.050482	0.00	0.00
3088.00	628894.83	410803.58	32.129062	-104.050483	0.00	0.00
3087.56	628894.39	410903.58	32.129337	-104.050484	0.00	0.00
3087.12	628893.95	411003.58	32.129612	-104.050484	0.00	0.00
3086.67	628893.50	411103.58	32.129887	-104.050485	0.00	0.00
3086.23	628893.06	411203.58	32.130162	-104.050485	0.00	0.00
3085.79	628892.62	411303.58	32.130436	-104.050486	0.00	0.00
3085.35	628892.18	411403.58	32.130711	-104.050487	0.00	0.00
3084.91	628891.74	411503.58	32.130986	-104.050487	0.00	0.00
3084.46	628891.29	411603.58	32.131261	-104.050488	0.00	0.00
3084.02	628890.85	411703.58	32.131536	-104.050488	0.00	0.00
3083.58	628890.41	411803.58	32.131811	-104.050489	0.00	0.00
3083.14	628889.97	411903.57	32.132086	-104.050489	0.00	0.00
3082.69	628889.52	412003.57	32.132361	-104.050490	0.00	0.00
3082.25	628889.08	412103.57	32.132636	-104.050491	0.00	0.00
3081.81	628888.64	412203.57	32.132910	-104.050491	0.00	0.00
3081.37	628888.20	412303.57	32.133185	-104.050492	0.00	0.00
3080.92	628887.75	412403.57	32.133460	-104.050492	0.00	0.00
3080.48	628887.31	412503.57	32.133735	-104.050493	0.00	0.00
3080.04	628886.87	412603.57	32.134010	-104.050493	0.00	0.00
3079.60	628886.43	412703.57	32.134285	-104.050494	0.00	0.00
3079.15	628885.98	412803.57	32.134560	-104.050495	0.00	0.00
3078.71	628885.54	412903.56	32.134835	-104.050495	0.00	0.00
3078.27	628885.10	413003.56	32.135110	-104.050496	0.00	0.00
3077.83	628884.66	413103.56	32.135385	-104.050496	0.00	0.00
3077.38	628884.21	413203.56	32.135659	-104.050497	0.00	0.00
3076.94	628883.77	413303.56	32.135934	-104.050498	0.00	0.00
3076.50	628883.33	413403.56	32.136209	-104.050498	0.00	0.00
3076.06	628882.89	413503.56	32.136484	-104.050499	0.00	0.00
3075.62	628882.45	413603.56	32.136759	-104.050499	0.00	0.00
3075.17	628882.00	413703.56	32.137034	-104.050500	0.00	0.00
3074.90	628881.73	413765.19	32.137203	-104.050500	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	0.44
0.00	1.76
0.00	2.74
0.00	3.84
0.00	6.03
0.00	8.25
2.04	11.04
1.14	15.14

0.73	20.52
0.51	27.16
0.42	28.26
0.00	34.62
0.00	42.08
0.00	49.55
0.00	57.01
0.00	64.48
0.00	71.94
0.00	79.41
0.00	86.87
0.00	94.34
0.00	101.81
0.00	109.27
0.00	116.74
0.00	124.20
0.00	131.67
0.00	139.13
0.00	146.60
0.00	154.06
0.00	161.53
0.00	168.99
0.00	176.46
0.00	183.93
0.00	191.39
0.00	198.86
0.00	206.32
0.00	213.79
0.00	221.25
0.00	228.72
0.00	236.18
0.00	243.65
0.00	251.12
0.00	258.58
0.00	266.05
0.00	273.51
0.00	280.98
0.00	288.44
0.00	295.91
0.00	303.37
0.00	310.84
0.00	318.30
0.00	325.77
0.00	333.24

0.00	340.70
0.00	348.17
0.00	355.63
0.00	363.10
0.00	370.56
0.00	378.03
0.00	385.49
0.00	392.96
0.00	400.42
0.00	407.89
0.00	415.36
0.00	422.82
0.00	430.29
0.00	437.75
0.00	445.22
0.00	452.68
0.00	453.80
38.76	457.48
29.62	466.39
20.49	479.54
14.36	496.85
10.46	518.16
7.94	543.32
6.27	572.15
5.11	604.41
4.29	639.87
3.70	678.25
3.26	719.27
2.93	762.61
2.69	807.93
2.51	854.90
2.40	879.82
-0.01	951.91
-0.01	1050.70
-0.01	1150.45
-0.01	1176.40
0.00	1250.45
0.00	1350.45
0.00	1450.45
0.00	1550.45
0.00	1650.45
0.00	1750.45
0.00	1850.45
0.00	1950.45

0.00	2050.45
0.00	2150.45
0.00	2250.45
0.00	2350.45
0.00	2450.45
0.00	2550.45
0.00	2650.45
0.00	2750.45
0.00	2850.45
0.00	2950.45
0.00	3050.45
0.00	3150.45
0.00	3250.45
0.00	3350.45
0.00	3450.45
0.00	3550.45
0.00	3650.45
0.00	3750.45
0.00	3850.45
0.00	3950.45
0.00	4050.45
0.00	4150.45
0.00	4250.45
0.00	4350.45
0.00	4450.45
0.00	4550.45
0.00	4631.76
-6.95	4650.45
-6.95	4700.37
-6.95	4750.04
-6.95	4799.27
-6.95	4847.89
-6.95	4895.71
-6.95	4942.56
-6.95	4988.26
-6.95	5032.66
-6.95	5075.58
-6.95	5116.86
-6.95	5156.37
-6.95	5193.94
-6.95	5229.44
-6.95	5262.75
-6.95	5293.74
-6.95	5322.29

-6.95	5348.30
-6.95	5371.67
-6.95	5392.33
-6.95	5410.18
-6.95	5425.17
-6.95	5437.25
-6.95	5446.36
-6.95	5452.48
-6.95	5455.57
-6.95	5455.64
-6.95	5452.68
-6.95	5446.70
-6.95	5437.71
-6.95	5425.77
-6.95	5410.91
-6.95	5393.17
-6.95	5372.64
-6.95	5349.39
-6.95	5323.49
-6.95	5295.05
-6.95	5264.17
-6.95	5230.96
-6.95	5195.55
-6.95	5158.07
-6.95	5118.65
-6.95	5077.44
-6.95	5034.59
-6.95	4990.25
-6.95	4944.60
-6.95	4897.80
-6.95	4850.02
-6.95	4801.43
-6.95	4752.22
-6.95	4702.57
-6.95	4697.27
-2.00	4602.78
-2.00	4502.83
-2.00	4468.85
0.00	4402.83
0.00	4302.83
0.00	4202.83
0.00	4102.83
0.00	4002.83
0.00	3902.83

0.00	3802.83
0.00	3702.83
0.00	3602.83
0.00	3502.83
0.00	3402.83
0.00	3302.83
0.00	3202.83
0.00	3102.83
0.00	3002.83
0.00	2902.83
0.00	2802.83
0.00	2702.83
0.00	2602.83
0.00	2502.83
0.00	2402.83
0.00	2302.83
0.00	2202.83
0.00	2102.83
0.00	2002.83
0.00	1902.83
0.00	1802.83
0.00	1702.83
0.00	1602.83
0.00	1502.83
0.00	1402.83
0.00	1302.83
0.00	1202.83
0.00	1102.83
0.00	1002.83
0.00	902.83
0.00	802.83
0.00	702.83
0.00	602.83
0.00	502.83
0.00	402.83
0.00	341.19

1. Geological Formations

TVD of target 7,500
MD at TD 18,462

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 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	
1st Bone Spring Sand - Target	7500	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1050	1050	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.63	3.80	6.39
12 1/4	0	2340	2340	9-5/8"	36.00	J-55	LT&C	1.61	2.81	5.38
8 3/4	0	7115	7115							
8 3/4	7115	18461	7500	5-1/2"	20.00	P-110	BT&C	3.00	3.34	83.25
					BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

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

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

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	509	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	136	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	416	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	137	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	513	10.30	3.64	22.18		Lead: Tuned Light + LCM
	3307	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

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

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

4. Pressure Control Equipment

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

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

X	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.	
X	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.	
	Y	Are anchors required by manufacturer?

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1050'	FW Spud Mud	7.83 - 8.33	30-32	N/C
1050' to 2340'	Brine Water	9.80 - 10.30	30-32	N/C
2340' to 18461'	Cut Brine or OBM	9.00 - 9.50	27-70	N/C

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

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

6. Logging and Testing Procedures

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

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	3705 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.

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Cimarex Energy Co. of Colorado **OGRID:** 162683 **Date:** 5/14/2025

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Riverbend 14 Fed Com 1H		Sec 11 T25S, R28E	264 FSL/1880 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 1H		12/4/2025	3/27/2026	8/26/2026	9/19/2026	9/19/2026

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Shelly Bowen
Printed Name:	Shelly Bowen
Title:	Sr. Regulatory Analyst
E-mail Address:	shelly.bowen@coterra.com
Date:	5/14/2025
Phone:	432/6201644

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

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

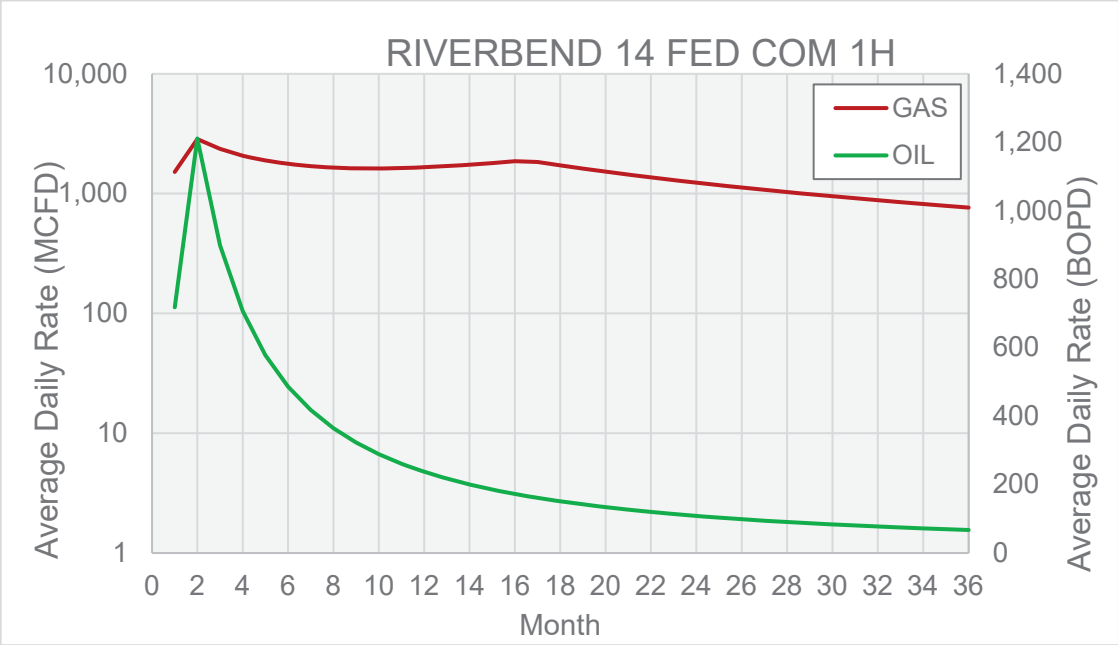
From State of New Mexico, Natural Gas Management Plan

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

XEC Standard Response

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

RIVERBEND 14 FED COM 1H	RIVERBEND 14 FED COM 1H
GAS MCFD	OIL BOPD
1,517	718
2,853	1,211
2,360	899
2,070	707
1,887	578
1,769	486
1,694	417
1,650	365
1,628	323
1,623	289
1,634	261
1,658	237
1,693	217
1,739	200
1,795	185
1,861	172
1,834	161
1,719	151
1,616	142
1,524	134
1,440	126
1,365	120
1,296	114
1,234	108
1,176	103
1,124	99
1,075	94
1,030	90
988	87
949	83
913	80
880	77
848	74
819	72
791	69
765	67


RIVERBEND 14 FED COM 1H
GAS
OIL
Average Daily Rate (MCFD)
Average Daily Rate (BOPD)
Month
10,000
1,000
100
10
1
1,400
1,200
1,000
800
600
400
200
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36

Cimarex
VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
    a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
5. Under routine production operations, Cimarex will not flare/vent unless:
    a. Venting or flaring occurs due to an emergency or equipment malfunction.
    b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
    c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
    d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
    e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
    f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
    g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
    h. Venting or flaring occurs as a result of normal dehydration unit operations.

i. Venting or flaring occurs as a result of bradenhead testing.
j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
k. Venting or flaring occurs as a result of a packer leakage test.
l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.

6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc…
9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
    a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
    b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
    a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

- **Workovers:**
  - Always strive to kill well when performing downhole maintenance.
  - If vapors or trapped pressure is present and must be relieved then:
    - Initial blowdown to production facility:
      - Route vapors to LP flare if possible/applicable
    - Blowdown to portable gas buster tank:
      - Vent to existing or portable flare if applicable.

- **Stock tank servicing:**
  - Minimize time spent with thief hatches open.
  - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
    - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
  - Isolate the vent lines and overflows on the tank being serviced from other tanks.

- **Pressure vessel/compressor servicing and associated blowdowns:**
  - Route to flare where possible.
  - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
  - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
  - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

- **Flare/combustor maintenance:**
  - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
  - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
  - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.

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

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

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

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

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

5 F-4.3' El. 33.9'

180'

120'

6 F-8.4' El. 29.8'

Alternate Egress

7 F-12.3' El. 25.9'

Approximate Topsoil Fill Area

80'

N00°24'38"W 110'

F-2.5' El. 35.7'

4H 7H 8H 3H 1H

F-3.7' El. 34.5'

260'

140'

20' 20' 20' 20'

4 F-0.1' El. 38.1'

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

8 F-7.1' El. 31.1'

60'

69'

20' 20'

80'

4'

C-0.3' El. 38.5'

SHL SHL SHL

F-0.5' El. 37.7'

9 C-0.2' El. 38.4'

86'

81'

250'

36'

34'

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Satellite Pad

100'

Approx. Top of Cut Slope

3 C-5.7' El. 43.9'

230'

35'

35'

1

180'

10

Section Line

2 C-1.0' El. 39.2'

Section 11

Section 14

Existing Anchor

Existing Power Pole (Typ.)

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Power Line

Existing Edge of Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

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

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)

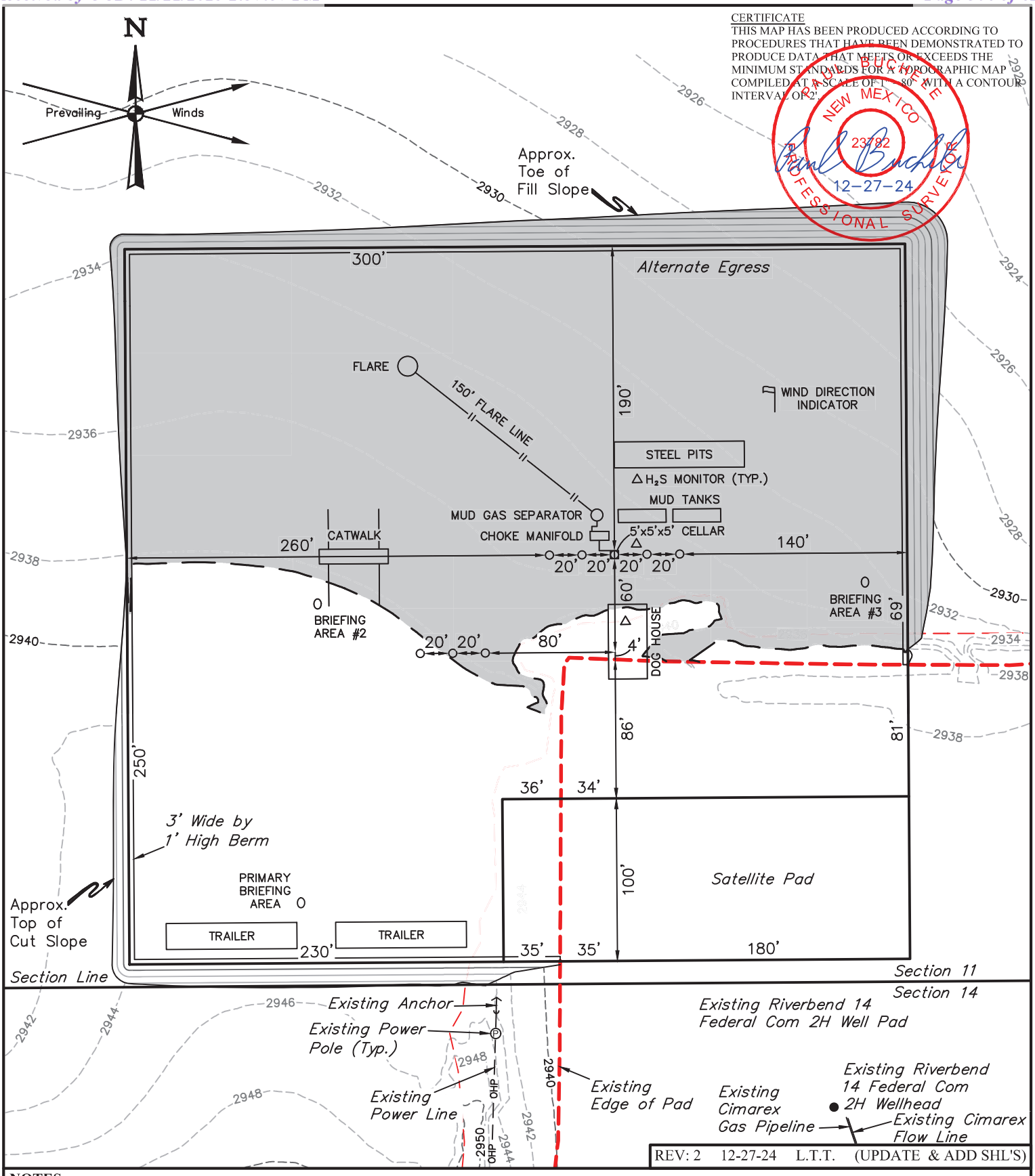
UINTAH ENGINEERING & LAND SURVEYING

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

CIMAREX ENERGY CO.

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

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



REV: 2 12-27-24 L.T.T. (UPDATE & ADD SHL'S)

NOTES:

- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

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

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

TYPICAL RIG LAYOUT **EXHIBIT K**

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Cimarex Energy Co. of Colorado **OGRID:** 162683 **Date:** 5/14/2025

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Riverbend 14 Fed Com 1H		Sec 11 T25S, R28E	264 FSL/1880 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 1H		12/4/2025	3/27/2026	8/26/2026	9/19/2026	9/19/2026

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Shelly Bowen
Printed Name:	Shelly Bowen
Title:	Sr. Regulatory Analyst
E-mail Address:	shelly.bowen@coterra.com
Date:	5/14/2025
Phone:	432/6201644

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

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

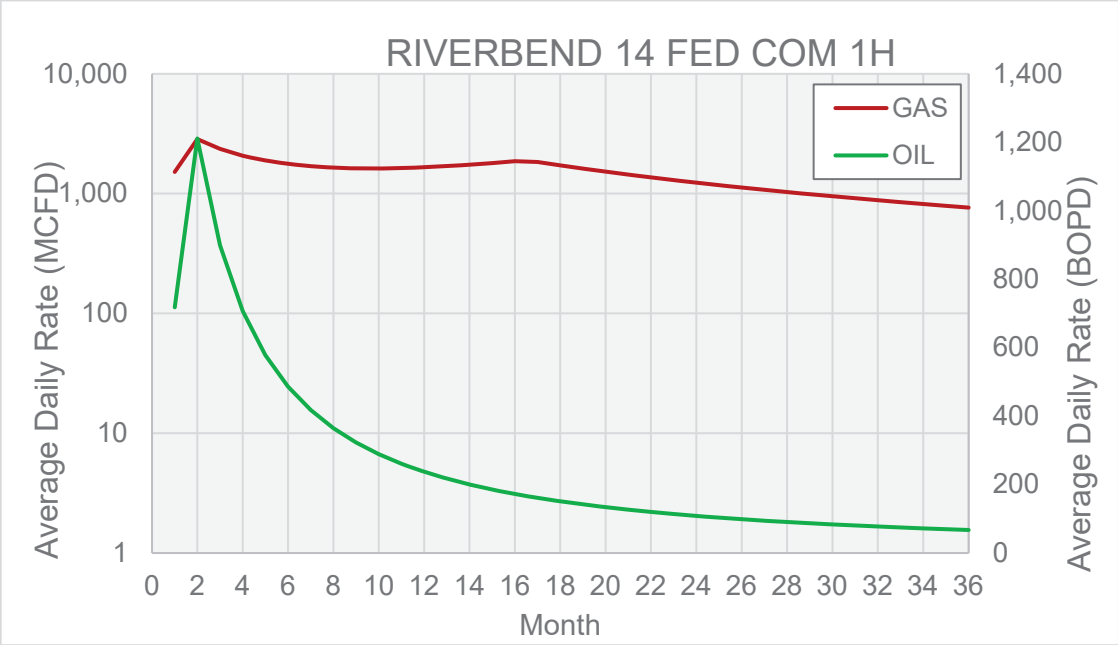
From State of New Mexico, Natural Gas Management Plan

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

XEC Standard Response

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

RIVERBEND 14 FED COM 1H	RIVERBEND 14 FED COM 1H
GAS MCFD	OIL BOPD
1,517	718
2,853	1,211
2,360	899
2,070	707
1,887	578
1,769	486
1,694	417
1,650	365
1,628	323
1,623	289
1,634	261
1,658	237
1,693	217
1,739	200
1,795	185
1,861	172
1,834	161
1,719	151
1,616	142
1,524	134
1,440	126
1,365	120
1,296	114
1,234	108
1,176	103
1,124	99
1,075	94
1,030	90
988	87
949	83
913	80
880	77
848	74
819	72
791	69
765	67


RIVERBEND 14 FED COM 1H
GAS
OIL
Average Daily Rate (MCFD)
Average Daily Rate (BOPD)
Month
10,000
1,000
100
10
1
1,400
1,200
1,000
800
600
400
200
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36

Cimarex
VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
    a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
5. Under routine production operations, Cimarex will not flare/vent unless:
    a. Venting or flaring occurs due to an emergency or equipment malfunction.
    b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
    c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
    d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
    e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
    f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
    g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
    h. Venting or flaring occurs as a result of normal dehydration unit operations.

i. Venting or flaring occurs as a result of bradenhead testing.
j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
k. Venting or flaring occurs as a result of a packer leakage test.
l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.

6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc…
9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
    a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
    b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
    a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

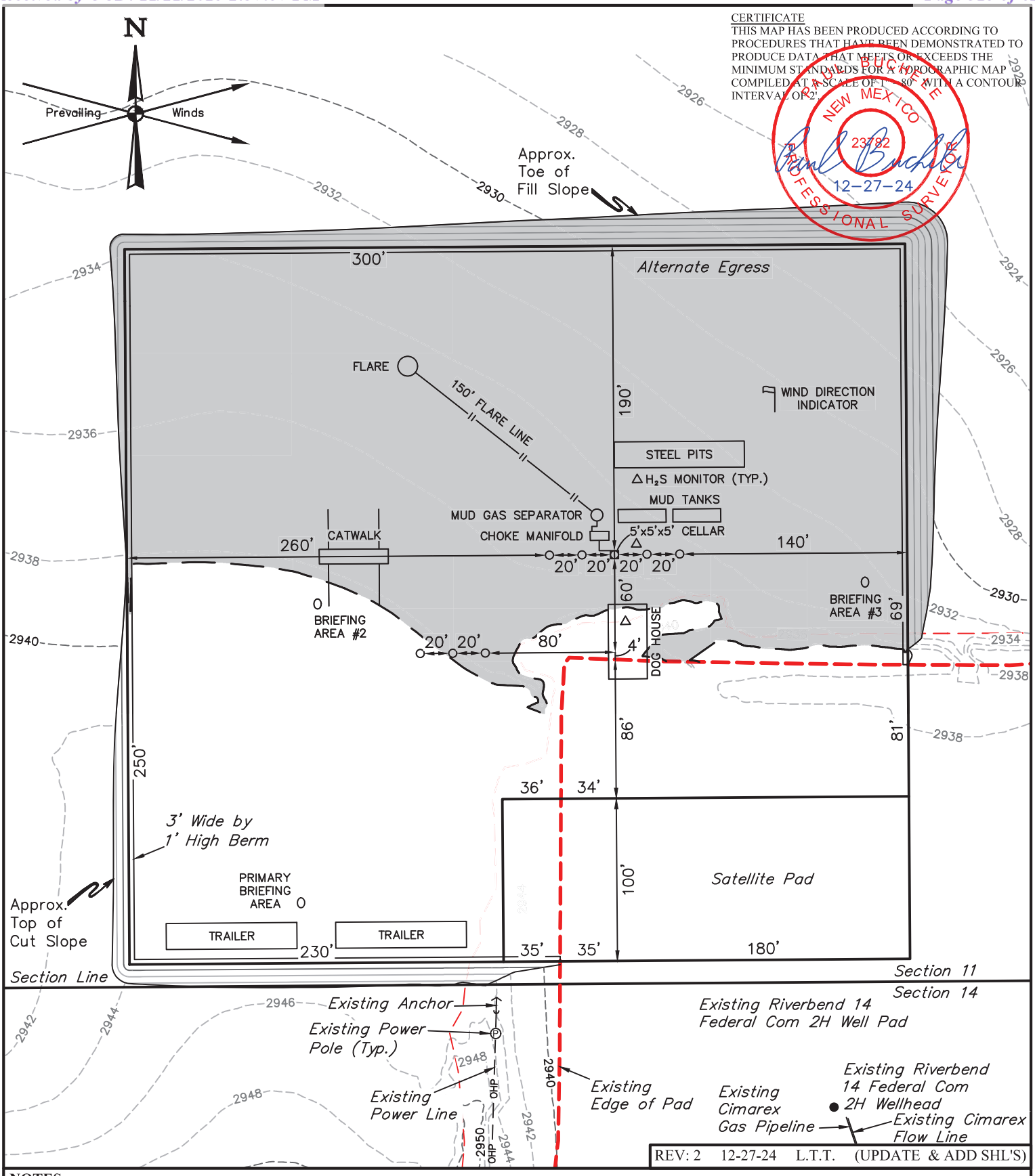
- **Workovers:**
  - Always strive to kill well when performing downhole maintenance.
  - If vapors or trapped pressure is present and must be relieved then:
    - Initial blowdown to production facility:
      - Route vapors to LP flare if possible/applicable
    - Blowdown to portable gas buster tank:
      - Vent to existing or portable flare if applicable.

- **Stock tank servicing:**
  - Minimize time spent with thief hatches open.
  - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
    - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
  - Isolate the vent lines and overflows on the tank being serviced from other tanks.

- **Pressure vessel/compressor servicing and associated blowdowns:**
  - Route to flare where possible.
  - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
  - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
  - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

- **Flare/combustor maintenance:**
  - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
  - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
  - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.



REV: 2 12-27-24 L.T.T. (UPDATE & ADD SHL'S)

NOTES:

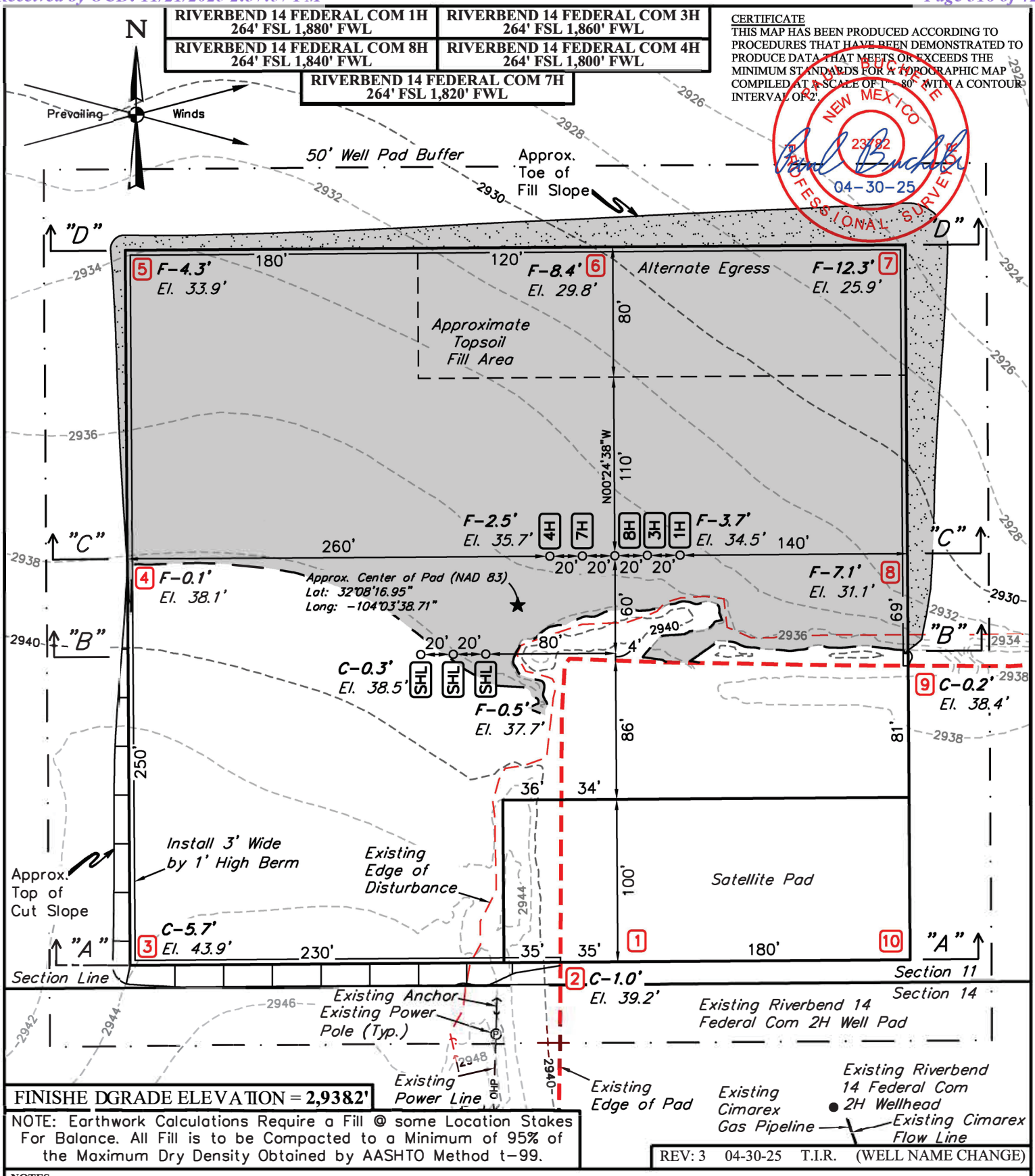
- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

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

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

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



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

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

FINISHED GRADE ELEVATION = 2,938'

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

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

NOTES:

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

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LOCATION LAYOUT			EXHIBIT J

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

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

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

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

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

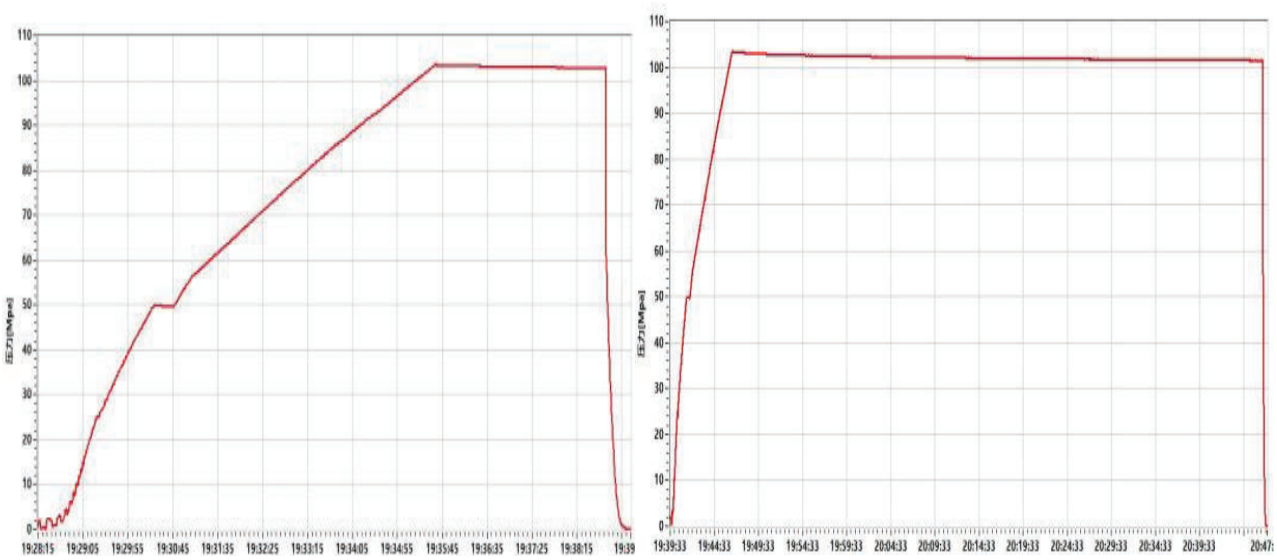
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

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

Graph of pressure testing：



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

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

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

Serial Number：VTC-7660257

customer number：PO890145-001

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

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

QC Manager： Jane C Date:Sep 3, 2024

16C-0403

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE

Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

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

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

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

Variance Request #4: Utilize Co-Flex Choke Line

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

Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

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

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

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

Variance Request #4: Utilize Co-Flex Choke Line

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

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

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

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

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

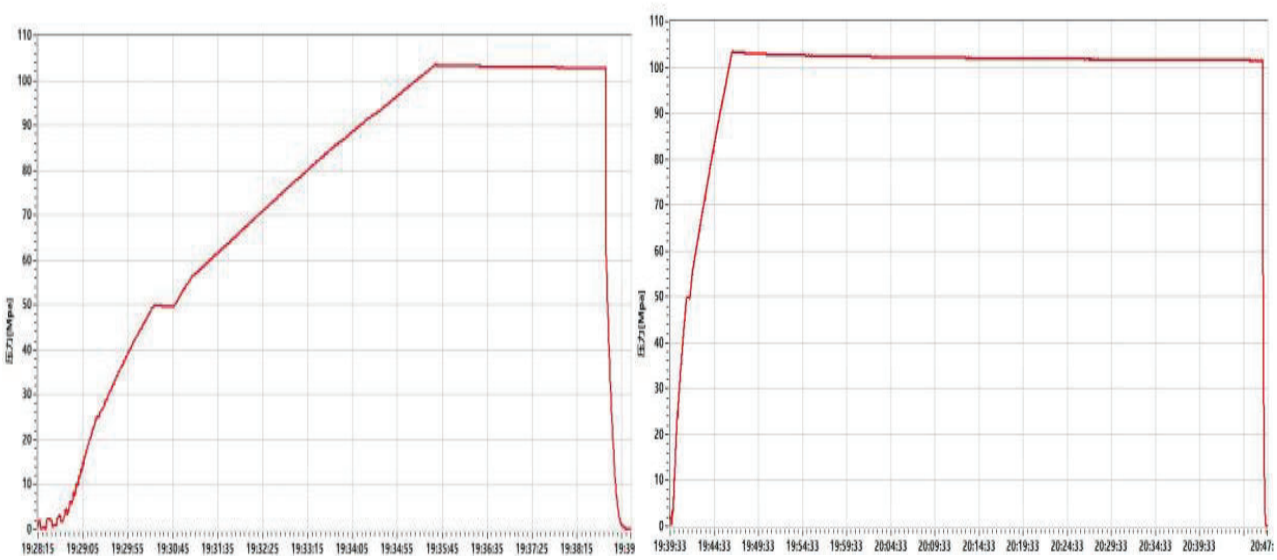
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

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

Graph of pressure testing：



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

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

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

Serial Number：VTC-7660257

customer number：PO890145-001

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

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

QC Manager： Jane C Date:Sep 3, 2024

16C-0403

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE

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

SUPO Data Report
11/06/2025

APD ID: 10400105574 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

RIVERBEND_14_FEDERAL_E2W2_existing_road_plat_20250625115939.pdf
RIVERBEND_14_FEDERAL_E2W2_existing_road_plat_20250912073154.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:** 1H

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_20250912073217.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:

RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250625121035.pdf
D_24550_20_100__GENERAL_ARRANGEMENT_PLOT_PLAN_Rev.0__1__20250625120209.pdf
D_24550_20_100__GENERAL_ARRANGEMENT_PLOT_PLAN_Rev.0__1__20250912073340.pdf
RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250912073358.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:** 1H

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_20250915162711.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:** 1H

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

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose human waste.

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 32500 pounds

Waste disposal frequency : Weekly

Safe containment description: N/A

Safe containmant attachment:

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

Disposal location description: A licensed 3rd party hauls trash to Lea County Landfill

Waste type: DRILLING

Waste content description: Drilling Fluids, drill cuttings, water and other waste produced from the well during drilling operations.
Amount of waste: 15000 barrels

Waste disposal frequency : Weekly

Safe containment description: N/A

Safe containmant attachment:

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

Disposal location description: Haul to R360 Environmental Solutions, 4507 Carlsbad Hwy, Hobbs, NM 88240

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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_surface_use_plat_20250912074343.pdf
RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250912074343.pdf
RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250912074403.pdf
RIVERBEND_14_FEDERAL_E2W2_powerline_row_plat_20250912074425.pdf
RIVERBEND_14_FEDERAL_E2W2_bulk_line_row_plat_20250912074425.pdf

Comments:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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_20250915162213.pdf

Drainage/Erosion control construction: To control and prevent potentially contaminated precipitation from leaving the pad site, a perimeter berm and settlement pond will be installed. Contaminated water will be removed from pond, stored in waste tanks, and disposed of at a state approved facility. Standing water or puddles will not be allowed. Drainage ditches would be established and maintained on the pad and along access roads to divert water away from operations. Natural drainage areas disturbed during construction would be re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured, and reclaimed to near original condition to re-establish natural drainage.

Drainage/Erosion control reclamation: All disturbed and re-contoured areas would be reseeded according to specifications. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Well pad proposed disturbance (acres): 2.295
Well pad interim reclamation (acres): 2.137
Well pad long term disturbance (acres): 0.158
Road proposed disturbance (acres):
Road interim reclamation (acres): 0
Road long term disturbance (acres): 0

Powerline proposed disturbance (acres): 0.325
Powerline interim reclamation (acres): 0.325
Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 1.398
Pipeline interim reclamation (acres): 1.398
Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 2.669
Other interim reclamation (acres): 0
Other long term disturbance (acres): 2.669
Total proposed disturbance: 6.686999999999999
Total interim reclamation: 3.8600000000000003
Total long term disturbance: 2.827

Disturbance Comments:

Reconstruction method: After well plugging, all disturbed areas would be returned to the original contour or a contour that blends with the surrounding landform including roads unless the surface owner requests that they be left intact. In consultation with the surface owners it will be determined if any gravel or similar materials used to reinforce an area are to be removed, buried, or left in place during final reclamation. Salvaged topsoil, if any, would be re-spread evenly over the surfaces to be re-vegetated. As necessary, the soil surface would be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, scarifying, dozer track-walking, mulching, or fertilizing. Reclamation, Re-vegetation, and Drainage: All disturbed and re-contoured areas would be reseeded using techniques outlined under Phase I and II of this plan or as specified by the land owner. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Topsoil redistribution: The original stock piled topsoil, if any, will be spread evenly over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pad, production facilities, roads, pipelines, and power line corridors as close as possible to the original topography. The

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

location will then be seeded.

Soil treatment: The soil surface would be prepared to provide a seedbed for reestablishment of desirable vegetation. Establish control of erosion and invasion of non-native plants to reestablish plant community.
Existing Vegetation at the well pad: N/A

Existing Vegetation at the well pad

Existing Vegetation Community at the road: N/A

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: N/A

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: **Last Name:**

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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:** 1H

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:**

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:** 1H

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:**

Section 12 - Other

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

ROW Type(s):

ROW

SUPO Additional Information: Onsite conducted on August 5, 2024 with Brendan Harris & Brandon Carico, Ellen Trout. Casey Jones, Shelly Bowen onsite for Coterra.
Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

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

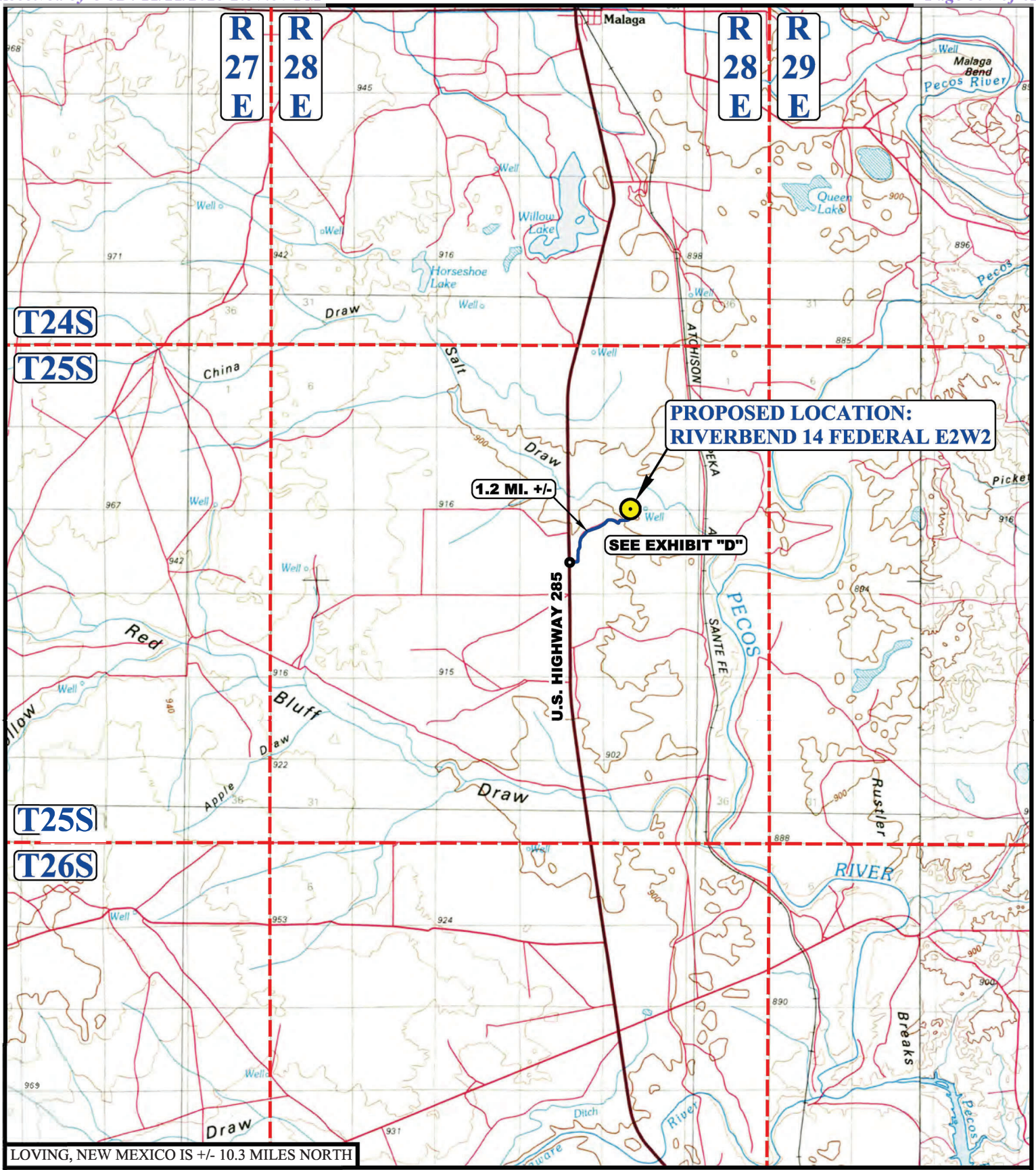
TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.2 MILES.

CIMAREX ENERGY CO.

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

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

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



LOVING, NEW MEXICO IS +/- 10.3 MILES NORTH

LEGEND:

⊙ **PROPOSED LOCATION**

N

CIMARE X ENERGY CO.

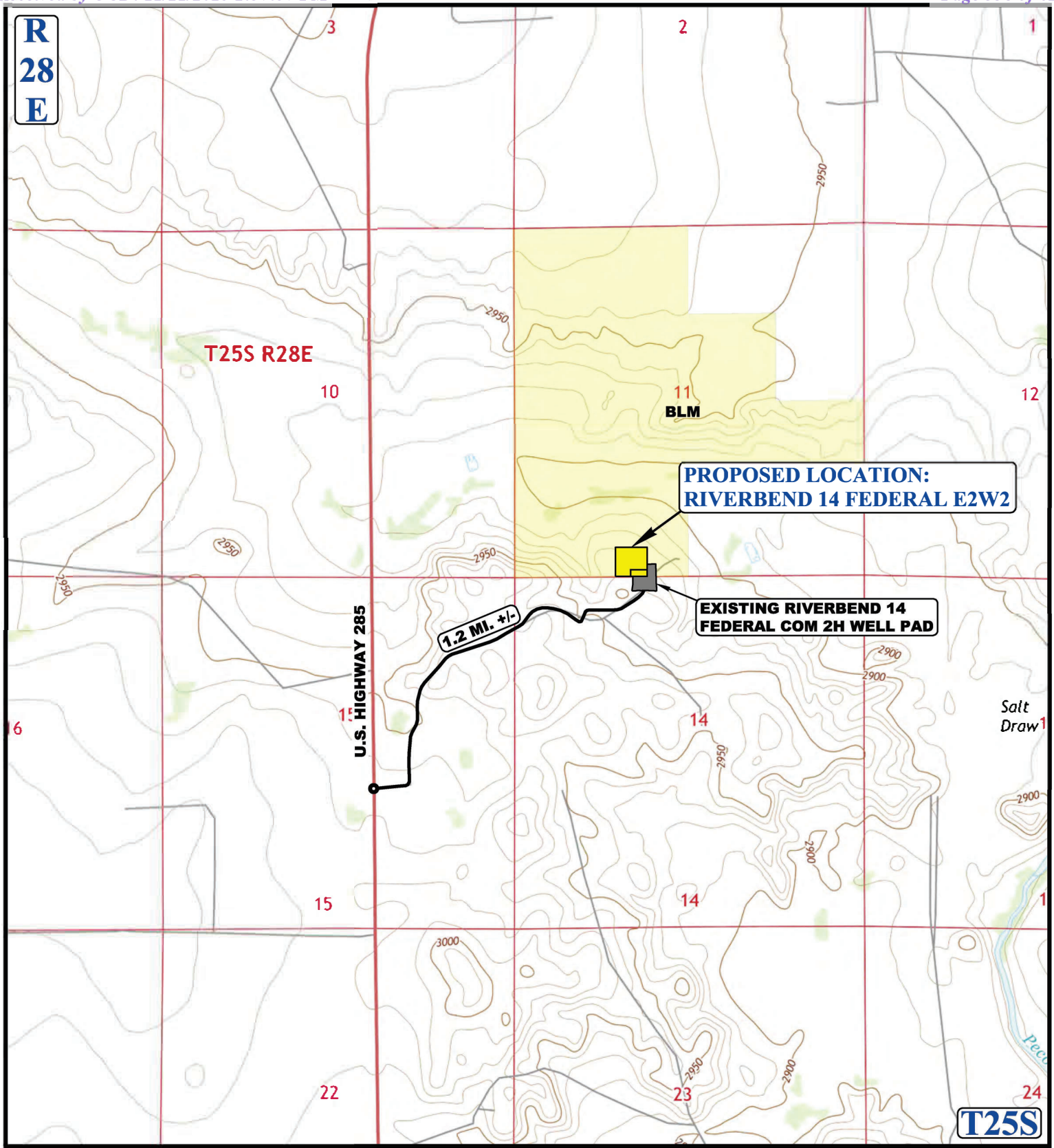
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

PUBLIC ACCESS ROAD MAP **EXHIBIT B**

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

EXISTING ROAD

N

CIMAREX ENERGY CO.

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

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

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

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

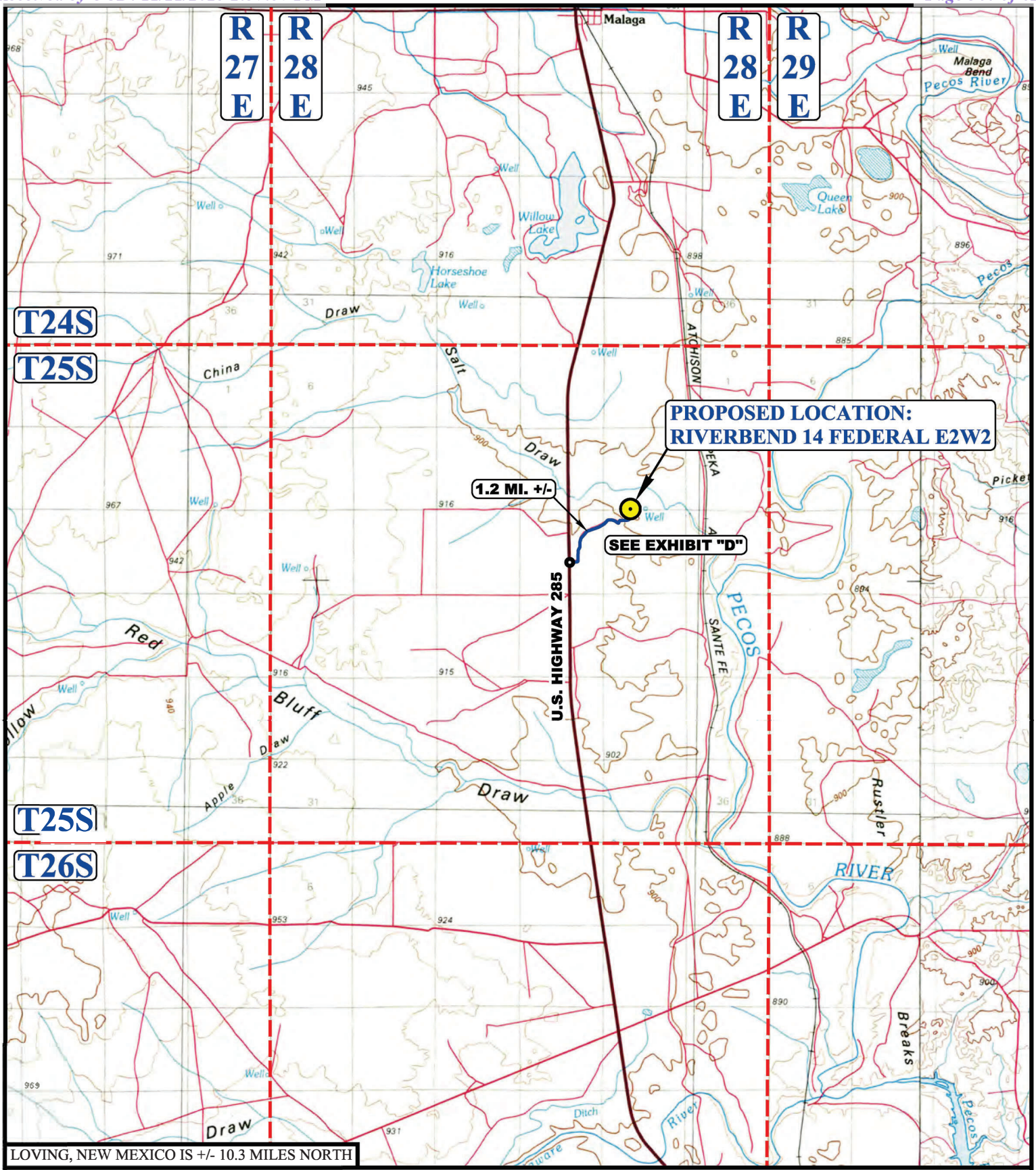
TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.2 MILES.

CIMAREX ENERGY CO.

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

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

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



LOVING, NEW MEXICO IS +/- 10.3 MILES NORTH

LEGEND:

⊙ **PROPOSED LOCATION**

N

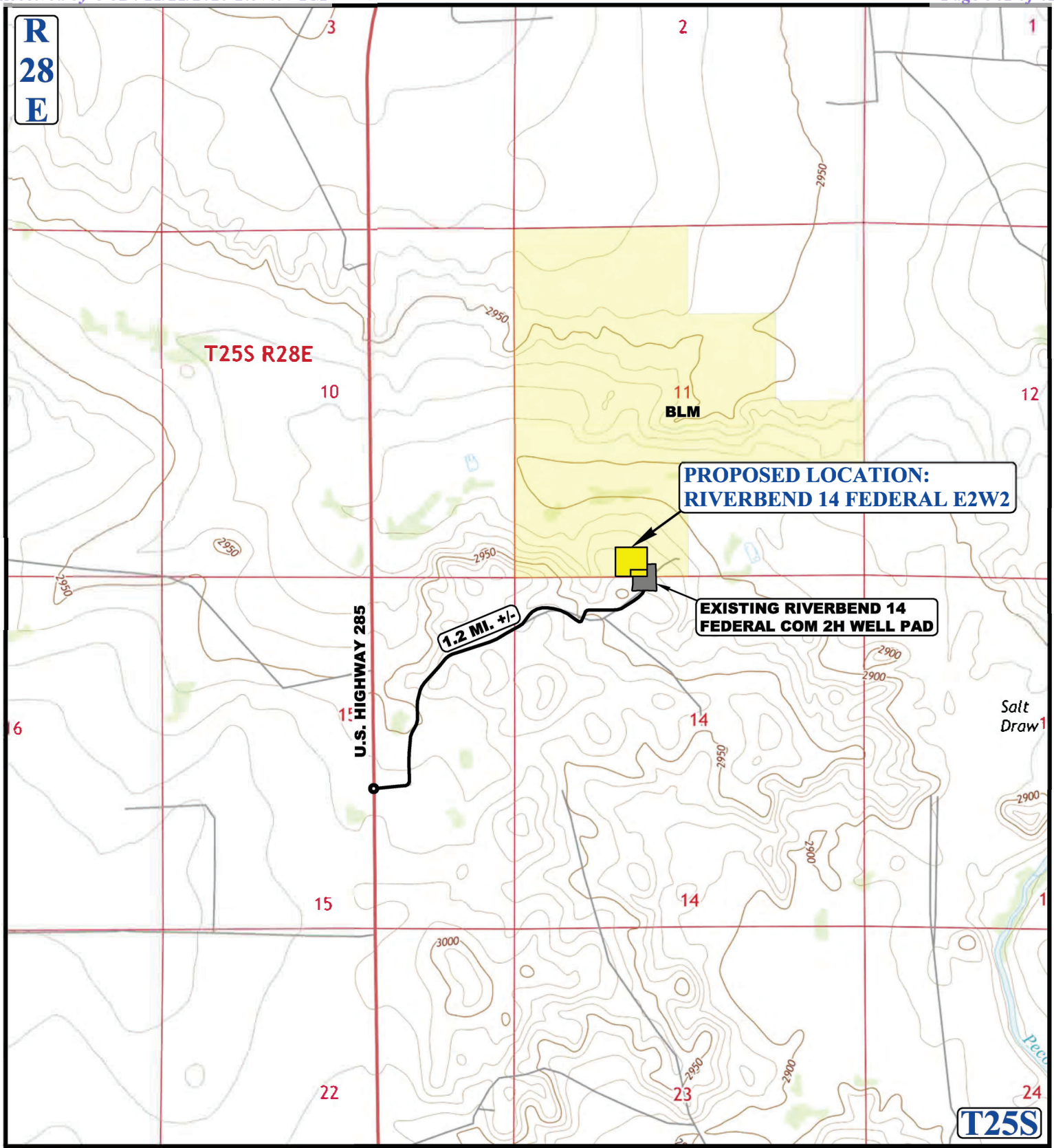
CIMARE X ENERGY CO.

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

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

PUBLIC ACCESS ROAD MAP **EXHIBIT B**

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



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LEGEND:

EXISTING ROAD

N

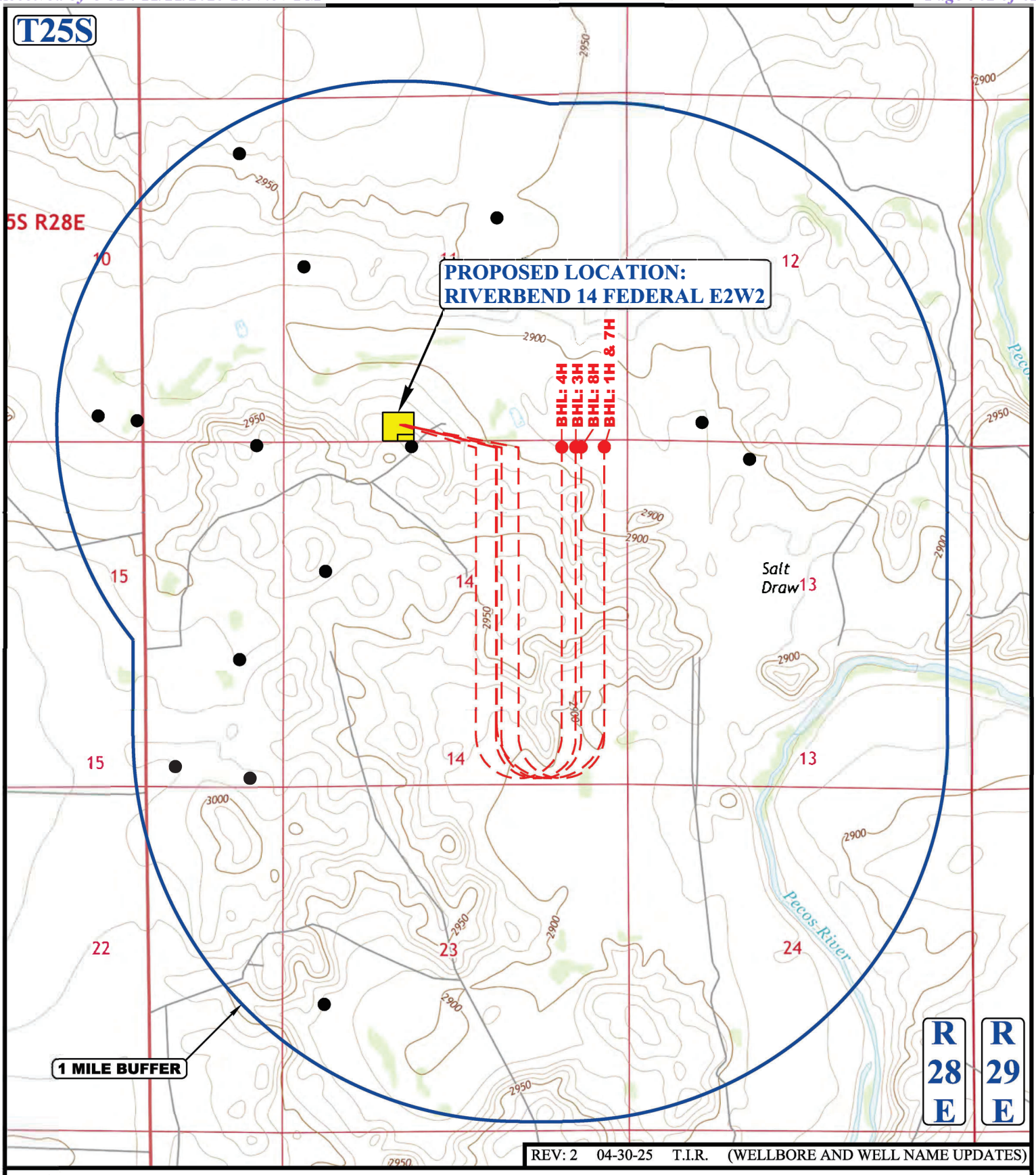
CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

● EXISTING WELLS

N

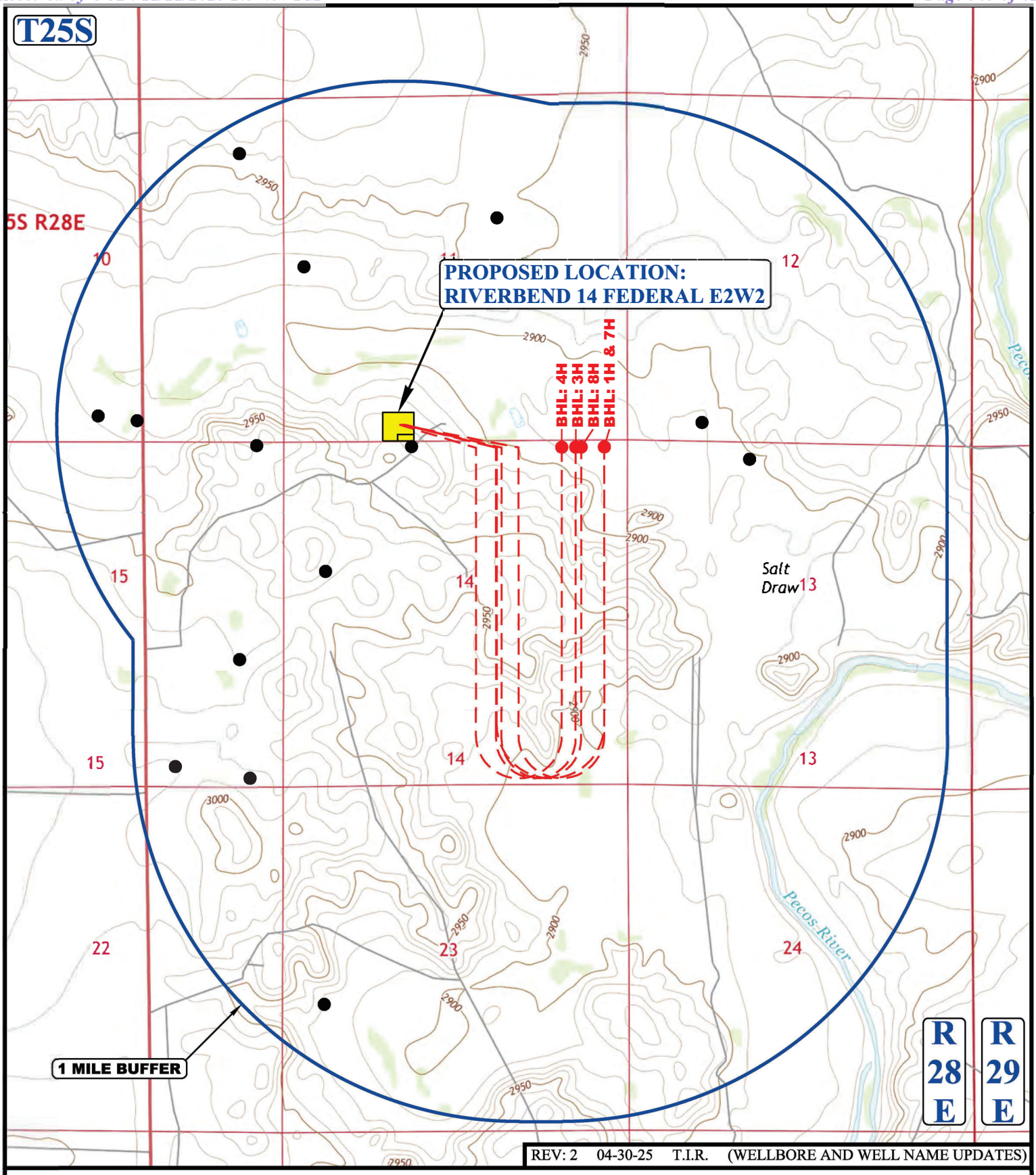
CIMARE X ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

● EXISTING WELLS

N

CIMARE X ENERGY CO.

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

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

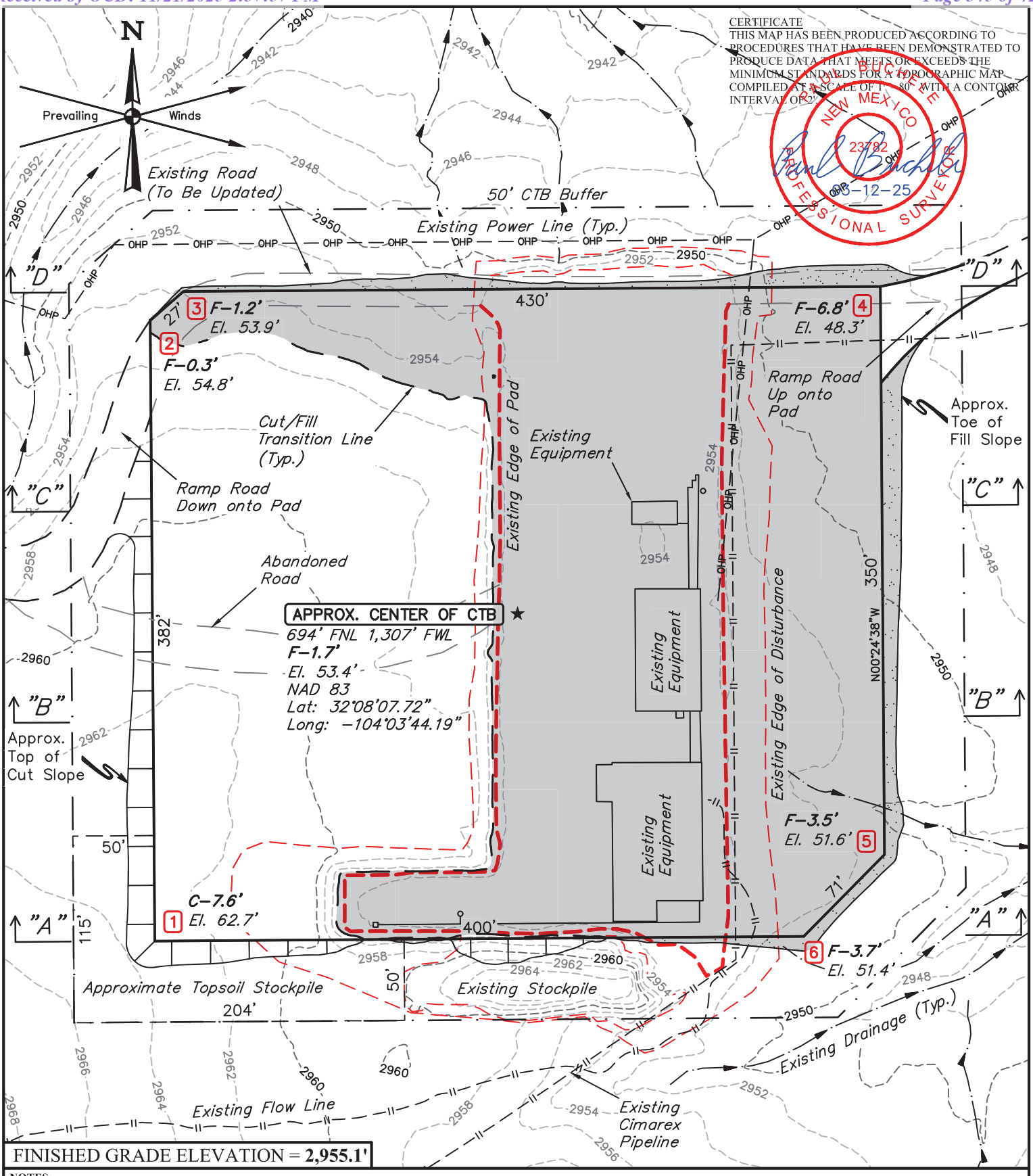
UINTAH ENGINEERING & LAND SURVEYING

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

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

DATE:	DESCRIPTION:
3/19/2025	FINAL PLAT PACKAGE

UINTAH
ENGINEERING & LAND SURVEYING



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

BUCHANAN NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

FINISHED GRADE ELEVATION = **2,955.1'**

NOTES:

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

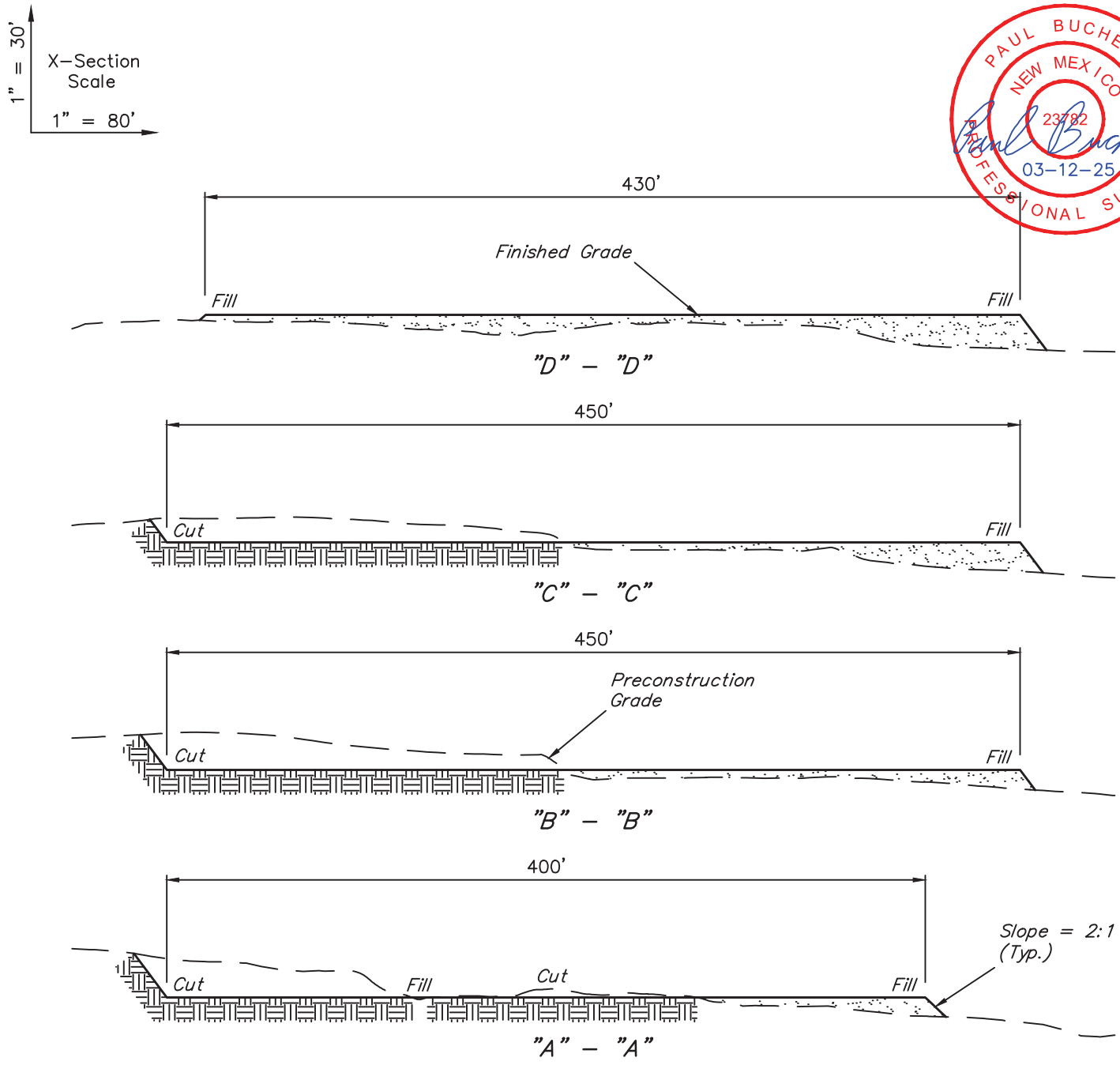
CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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



PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
03-12-25

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	1,300 Cu. Yds.
REMAINING LOCATION	10,920 Cu. Yds.
TOTAL CUT	**12,220 Cu. Yds.**
FILL	**10,920 Cu. Yds.**
EXCESS MATERIAL	1,300 Cu. Yds.
TOPSOIL	1,300 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
EXISTING PAD DISTURBANCE	NA	±2.383
PROPOSED EXPANSION DISTURBANCE (NEW CONSTRUCTION ONLY)	NA	±2.669
30' WIDE POWER LINE R-O-W DISTURBANCE	±426.73'	±0.294
TOTAL SURFACE USE AREA		**±5.346**

NOTES:

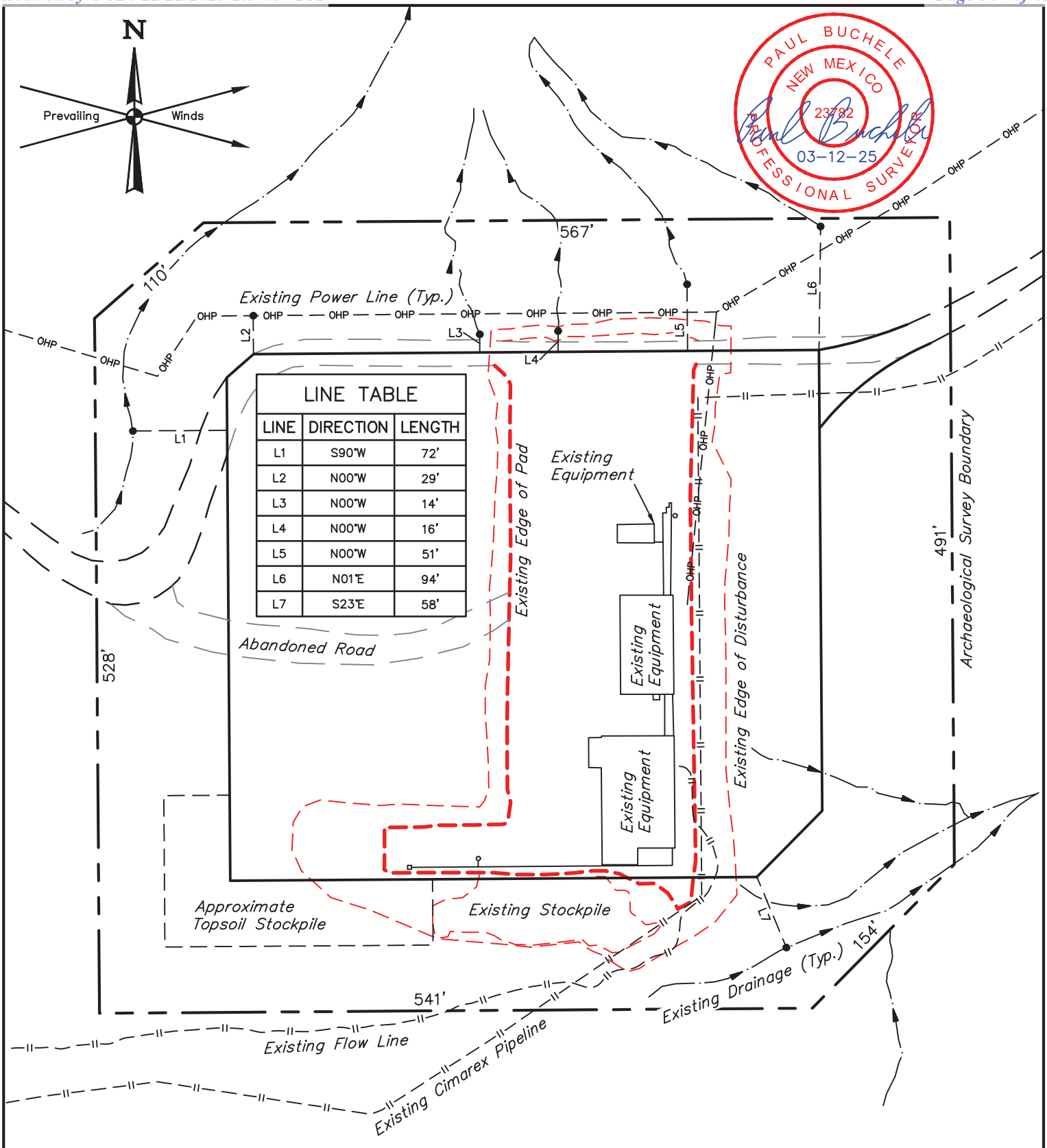
- Fill quantity includes 5% for compaction.

CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	**SCALE**
DRAWN BY	N.R.	03-12-25	AS SHOWN
TYPICAL CROSS SECTIONS			**EXHIBIT F**

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



NOTES:

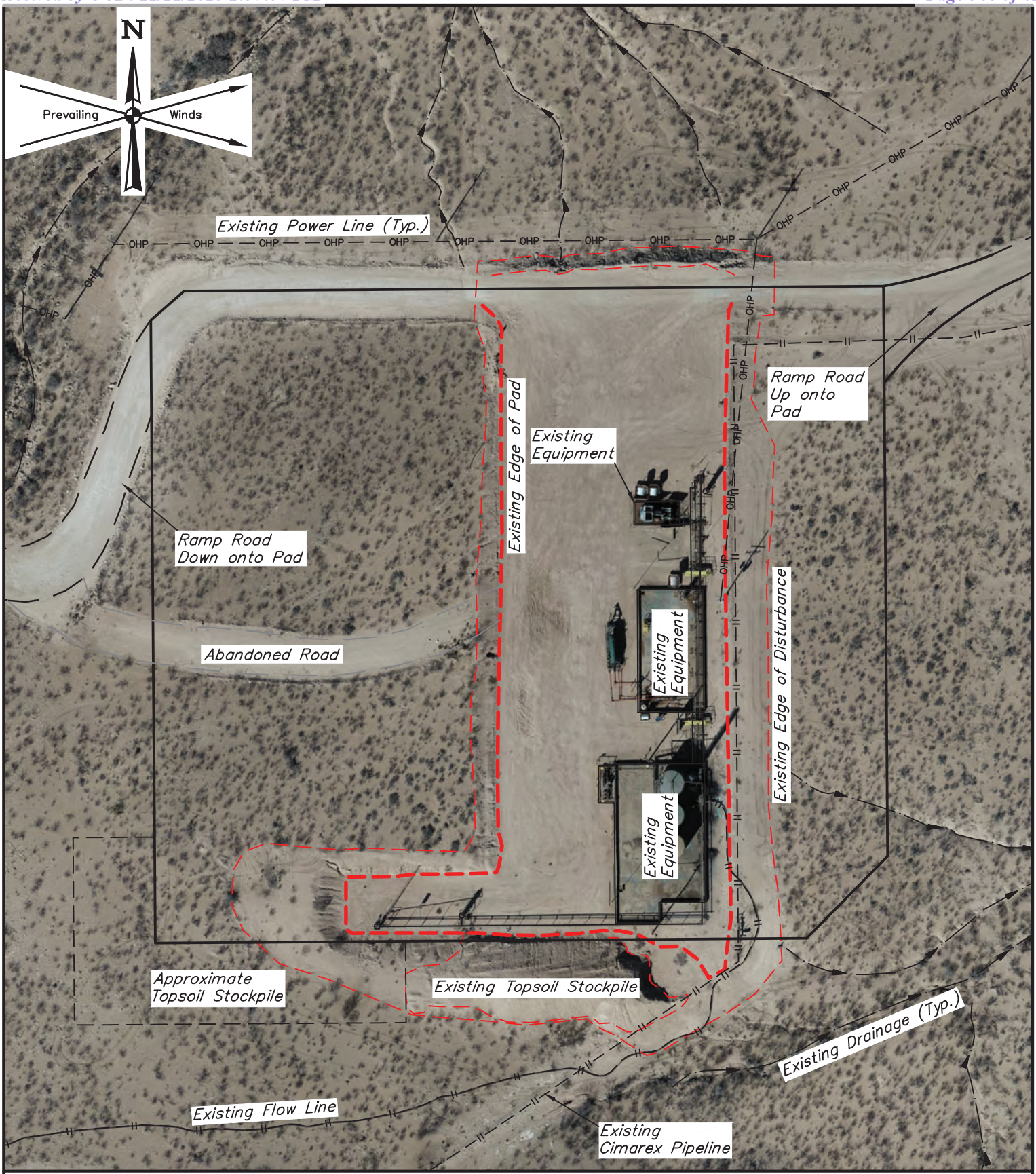
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT F

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



NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

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

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

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.0 MILE TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.0 MILES.

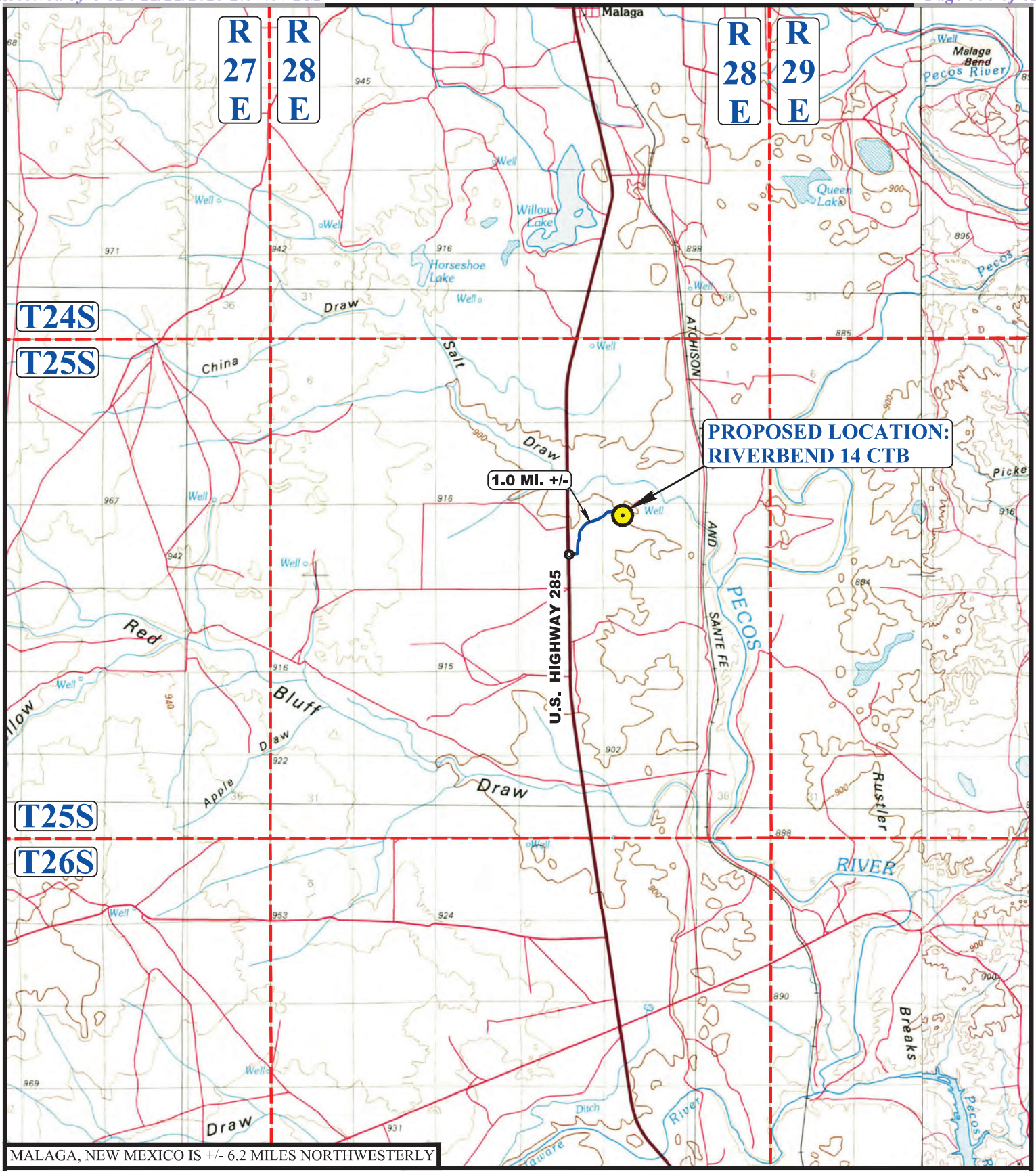
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	

ROAD DESCRIPTION **EXHIBIT F**

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



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

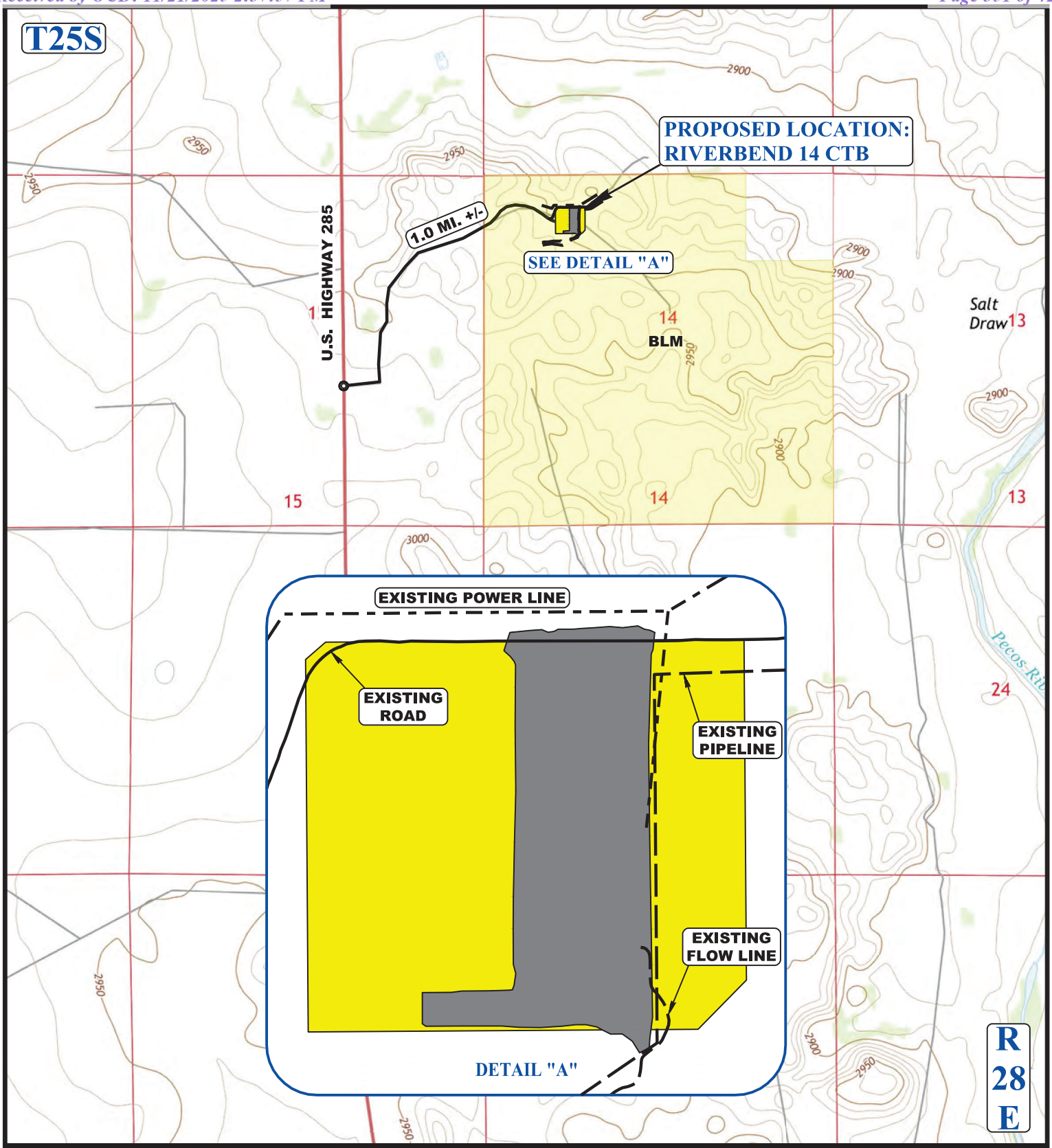
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP | **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE/FLOW LINE

N

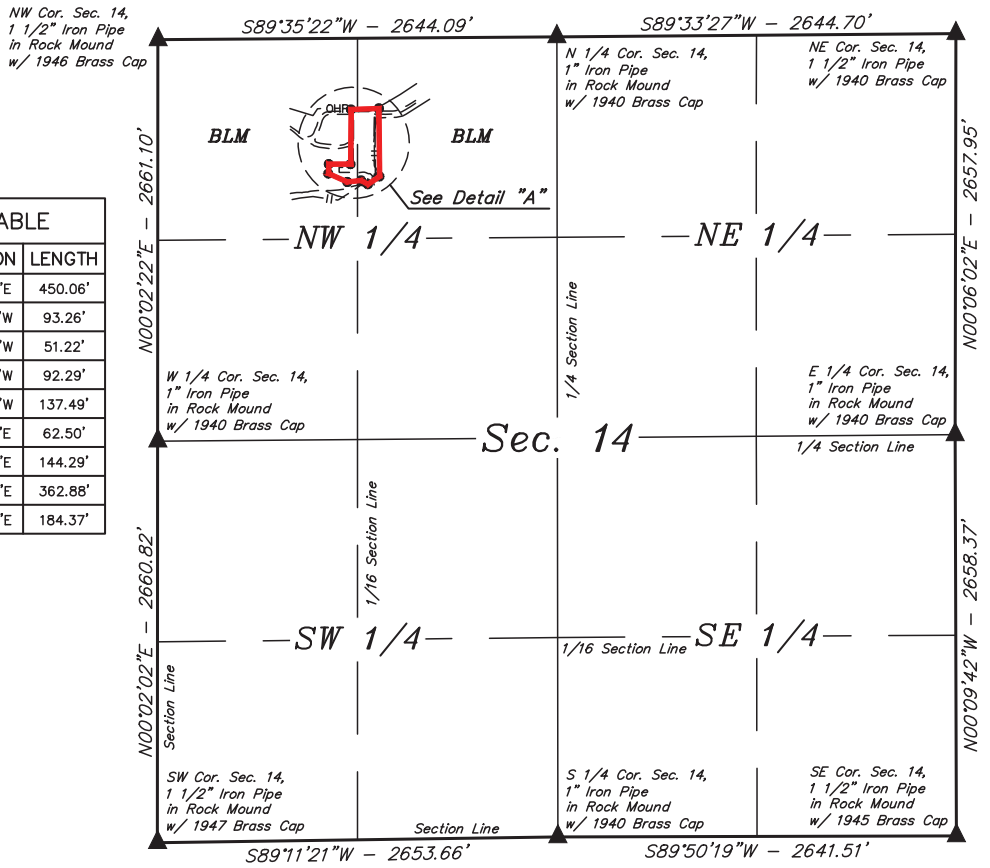
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 24,000

NEW ROAD MAP **EXHIBIT F**

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

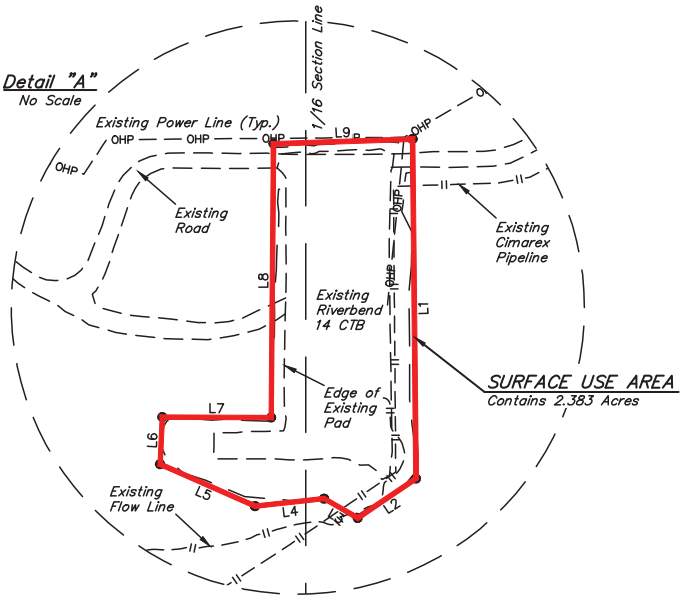


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

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





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

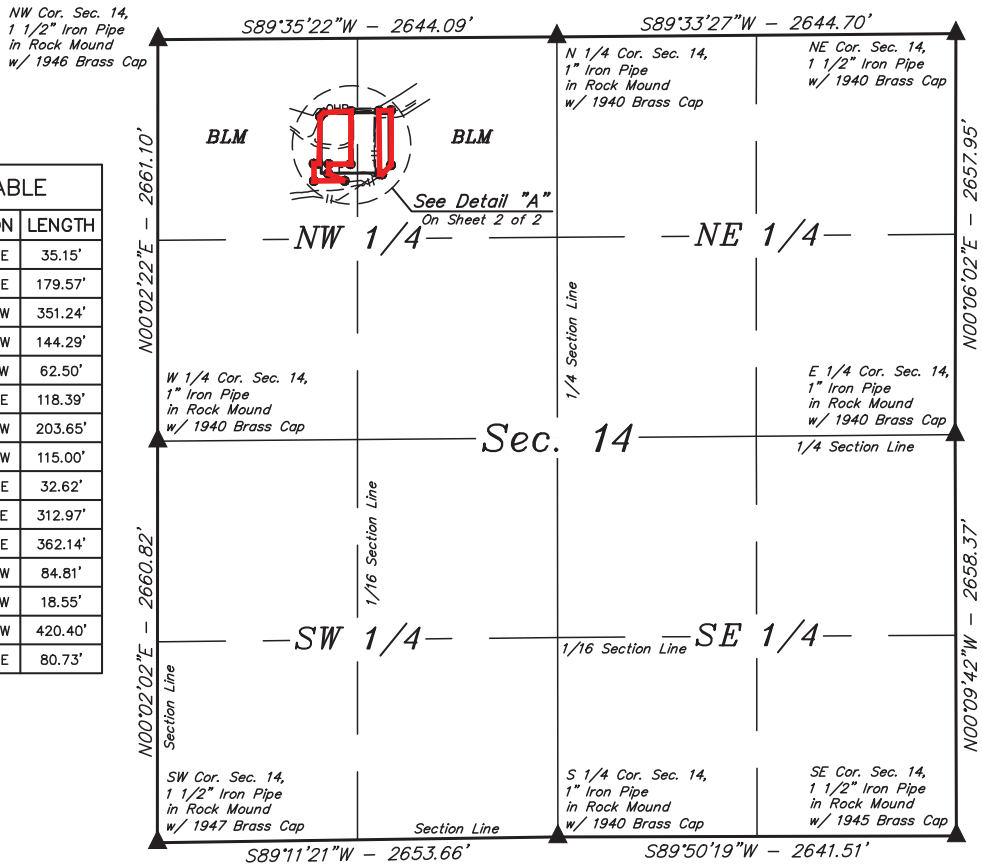
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

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

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



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N44°40'42"E	35.15'
L2	N87°00'34"E	179.57'
L3	S00°29'04"W	351.24'
L4	N89°45'49"W	144.29'
L5	S02°41'43"W	62.50'
L6	S66°08'24"E	118.39'
L7	S89°35'22"W	203.65'
L8	N00°24'38"W	115.00'
L9	N89°35'22"E	32.62'
L10	N01°46'53"E	312.97'
L11	S00°04'00"E	362.14'
L12	S43°29'22"W	84.81'
L13	N85°13'30"W	18.55'
L14	N00°34'57"W	420.40'
L15	N88°45'35"E	80.73'

SURFACE USE AREA "A" DESCRIPTION

COMMENCING AT THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 14 BEARS N89°35'22"E 2644.09', THENCE S64°40'24"E 1189.56' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N44°40'42"E 35.15'; THENCE N87°00'34"E 179.57'; THENCE S00°29'04"W 351.24'; THENCE N89°45'49"W 144.29'; THENCE S02°41'43"W 62.50'; THENCE S66°08'24"E 118.39'; THENCE S89°35'22"W 203.65'; THENCE N00°24'38"W 115.00'; THENCE N89°35'22"E 32.62'; THENCE N01°46'53"E 312.97' TO THE POINT OF BEGINNING. CONTAINS 1.946 ACRES MORE OR LESS.

SURFACE USE AREA "B" DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S66°03'17"W 1203.08' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°04'00"E 362.14'; THENCE S43°29'22"W 84.81'; THENCE N85°13'30"W 18.55'; THENCE N00°34'57"W 420.40'; THENCE N88°45'35"E 80.73' TO THE POINT OF BEGINNING. CONTAINS 0.723 ACRES MORE OR LESS.

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

POINT OF BEGINNING "B" BEARS S66°03'17"W
1203.08' FROM THE NORTH 1/4 CORNER OF
SECTION 14, T25S, R28E, N.M.P.M.

SURFACE USE AREA "A" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	1.946

SURFACE USE AREA "B" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.723

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

CERTIFICATE

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

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 1 of 2

NOTES:

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

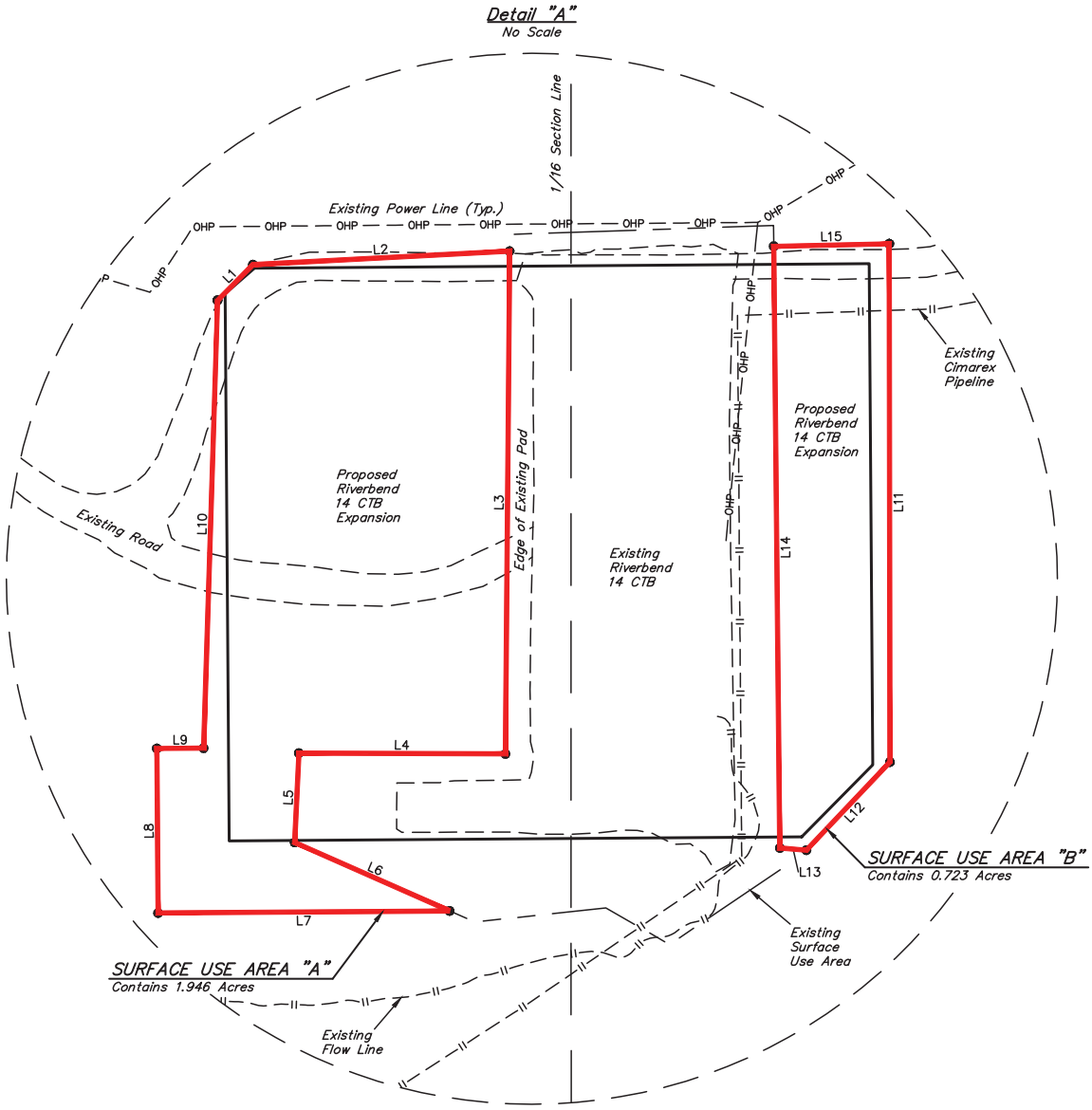
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

N

CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A1		
EXPANSION SURFACE USE AREA			EXHIBIT F



CERTIFICATE

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 2 of 2

NOTES:

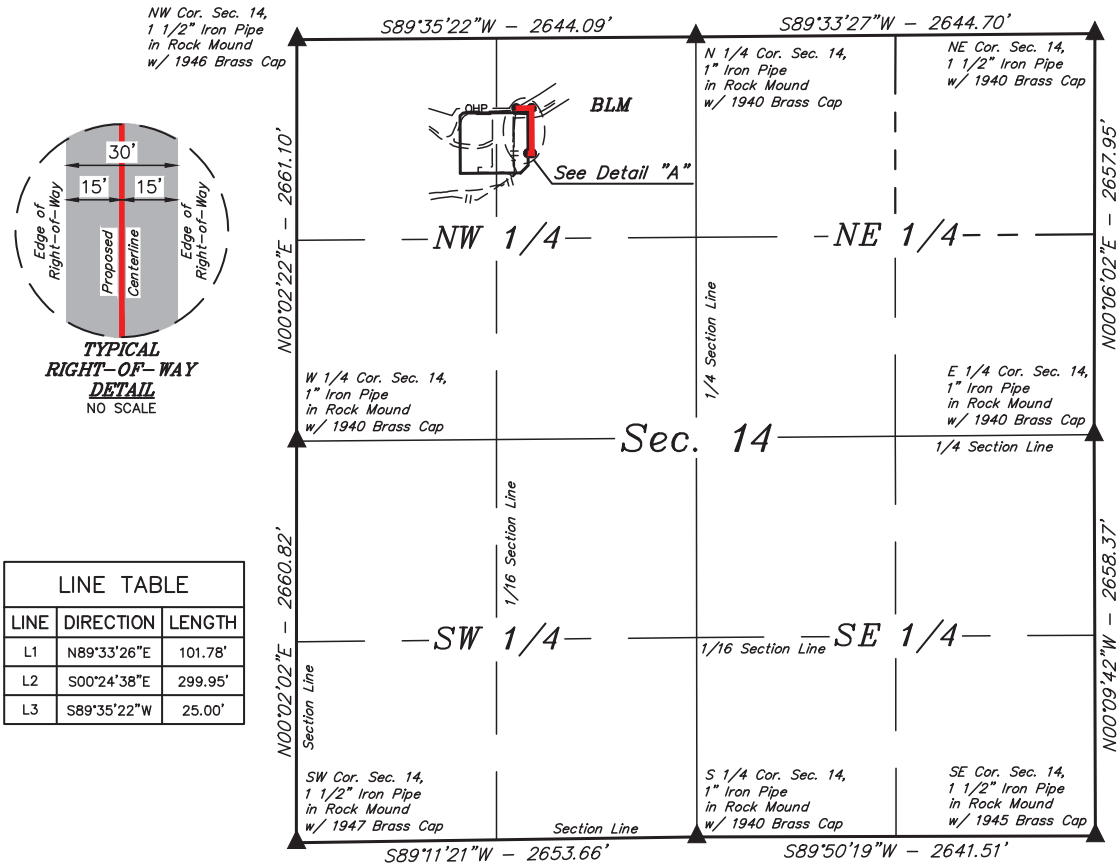
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		
EXPANSION SURFACE USE AREA			EXHIBIT F

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



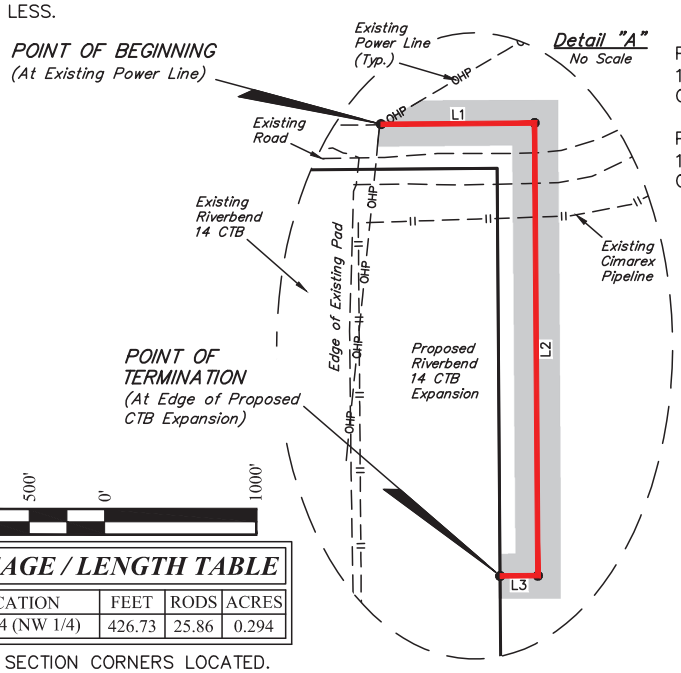
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

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

POWER LINE RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 299.95'; THENCE S89°35'22"W 25.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.294 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S68°20'04"W 1281.05' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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

▲ = SECTION CORNERS LOCATED.

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

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

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

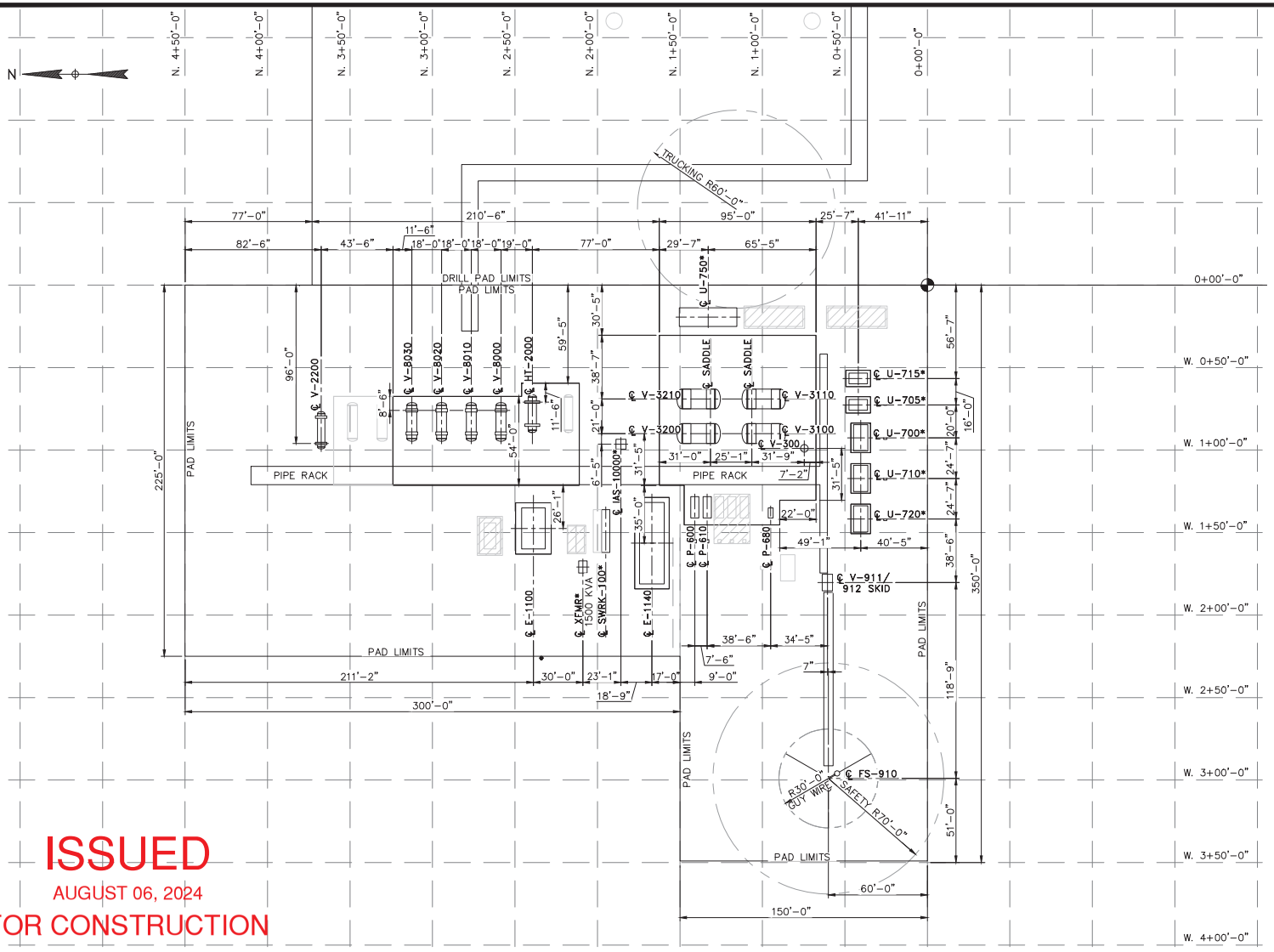
CIMAREX ENERGY CO.

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

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

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

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EQUIPMENT		
TAG	DESCRIPTION	H
V-300	VAPOR RECOVERY TOWER 36" OD x 40' S/S	
P-600	SKIDDED TRANSFER PUMP	10
P-610	SKIDDED TRANSFER PUMP	10
P-680	PCP RECIRCULATION PUMP	5
U-700	FX12V125	12
U-705	G10	10
U-710	FX17V150	15
U-715	G10	10
U-720	FX17V150	15
U-750	PIPELINE W/ BOOSTER	21
FS-910	TRIPOD 3.0/1.5 MMSCFD DUAL FLARE STACK	20
V-911/912	FS-910 DUAL SCRUBBER SKID	5
E-1100	OIL COOLER H-13-24 HZ 16K	40
E-1140	H-10-2-28 WATER COOLER	40
HT-2000	HZ HEATER TREATER 60" OD x 20' S/S	
V-2200	2PH HZ LP GAS SCRUBBER 54" OD x 20' S/S	
V-3100	500 BBL OIL VESSEL 12' OD x 20' S/S	
V-3110	500 BBL OIL VESSEL 12' OD x 20' S/S	
V-3200	500 BBL WATER VESSEL 12' OD x 20' S/S	
V-3210	500 BBL WATER VESSEL 12' OD x 20' S/S	
V-8000	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8010	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8020	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8030	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
IAS-10000	AIR COMPRESSOR	(2) 7.5

LEGEND

FUTURE

ISSUED

AUGUST 06, 2024

FOR CONSTRUCTION

VESSEL	WELL NAME
V-8000	TRISTE DRAW 36-25 FED COM 401H
V-8010	TRISTE DRAW 36-25 FED COM 351H
V-8020	TRISTE DRAW 36-25 FED COM 402H
V-8030	TRISTE DRAW 36-25 FED COM 352H

NOTE:

LP B4P6; SWEET;

* FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION

REFERENCE DRAWINGS	
NO.	TITLE

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

3S Engineering & Design
Midland, Texas 79705
Ph: 432-687-5611 Arlington, Texas 76011
Katy, Texas 77449
WWW.3SENGINEERINGDESIGN.COM
TBPE FIRM REG. #13809
NM FIRM REG. #4545320

NOTICE

THIS DRAWING HAS NOT BEEN PUBLISHED BUT RATHER HAS BEEN PREPARED BY 3S ENGINEERING & DESIGN, FOR USE BY THE CLIENT NAMED IN THE TITLE BLOCK SOLELY IN RESPECT OF THE CONSTRUCTION, OPERATION AND MAINTENANCE OF FACILITY NAMED IN THE TITLE BLOCK AND SHALL NOT BE USED FOR ANY OTHER PURPOSE, OR FURNISHED TO ANY OTHER PARTY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF 3S ENGINEERING & DESIGN.

ENGINEERING RECORD		
	BY	DATE
DRN:	NR	07/10/24
DES:	JAV	
CHK:		
APP:		
AFE No.		
FACILITY ENGR.	C. BOYLE	
PROJ. ENGR:	J. MEDINA	
SCALE:	NONE	

COTERRA

TRISTE DRAW 36-25 FED COM

GENERAL ARRANGEMENT PLOT PLAN

LEA COUNTY

PLOT SCALE NONE

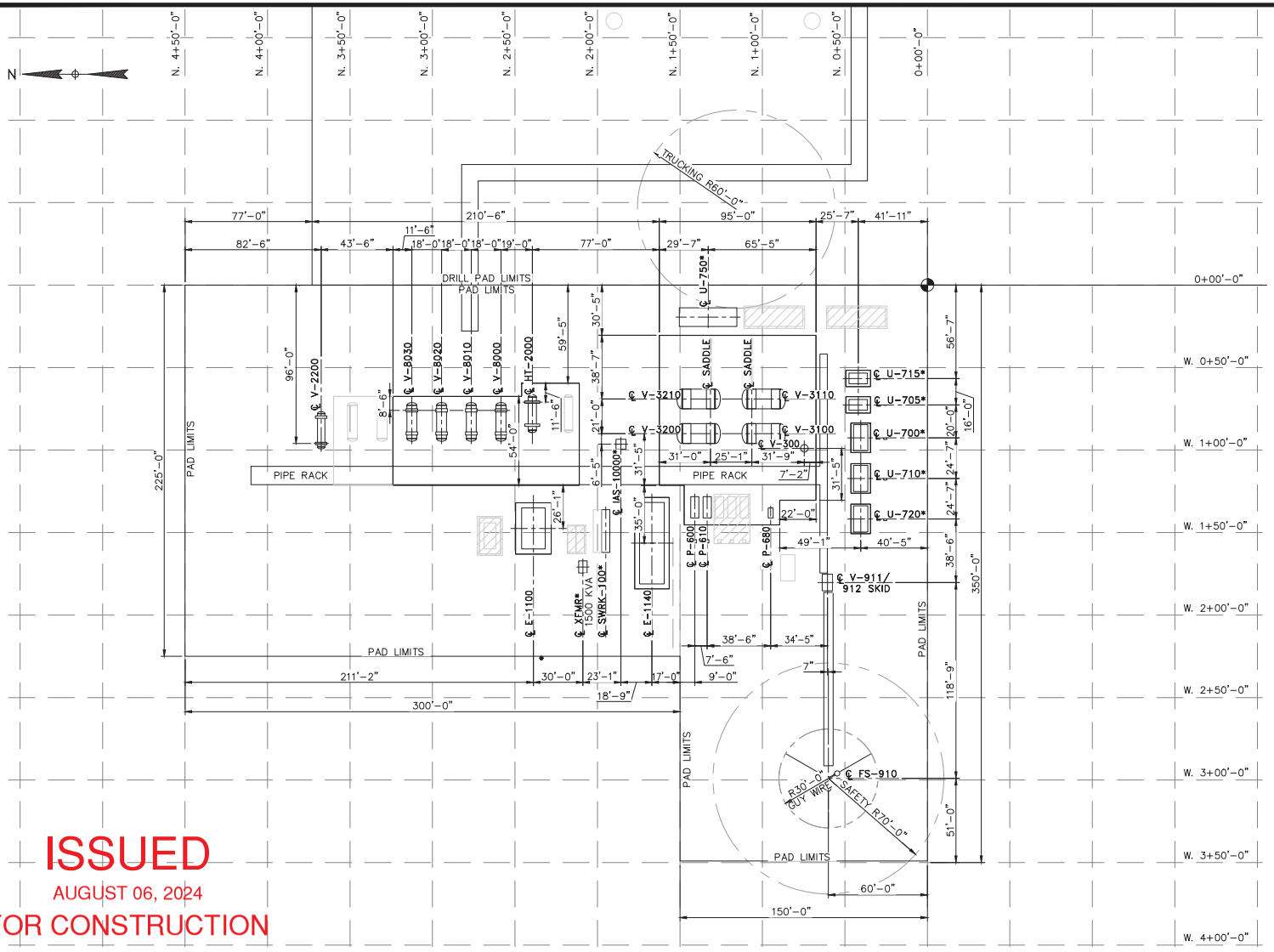
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REV.

CAD NO.

Q:\01_Coterra\24550 - Triste Draw CTB\2. Eng., Design\2.3 Piping, Mech\2.3.2 Plot Plans\D-24550-20-100.dwg 20240805.101118

Released to Imaging: 12/5/2025 11:04:51 AM
Received by OCD: 11/21/2025 2:37:17 PM



EQUIPMENT		
TAG	DESCRIPTION	H
V-300	VAPOR RECOVERY TOWER 36" OD x 40' S/S	
P-600	SKIDDED TRANSFER PUMP	10
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P-680	PCP RECIRCULATION PUMP	5
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U-705	G10	10
U-710	FX17V150	15
U-715	G10	10
U-720	FX17V150	15
U-750	PIPELINE W/ BOOSTER	21
FS-910	TRIPOD 3.0/1.5 MMSCFD DUAL FLARE STACK	20
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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	
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V-8020	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8030	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
IAS-10000	AIR COMPRESSOR	(2) 7.5

LEGEND

FUTURE

ISSUED

AUGUST 06, 2024

FOR CONSTRUCTION

VESSEL	WELL NAME
V-8000	TRISTE DRAW 36-25 FED COM 401H
V-8010	TRISTE DRAW 36-25 FED COM 351H
V-8020	TRISTE DRAW 36-25 FED COM 402H
V-8030	TRISTE DRAW 36-25 FED COM 352H

NOTE:

LP B4P6; SWEET;

* FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION

REFERENCE DRAWINGS	
NO.	TITLE

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

3S Engineering & Design
Midland, Texas 79705
Ph: 432-687-5611 Arlington, Texas 76011
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TBPE FIRM REG. #13809
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ENGINEERING RECORD		
	BY	DATE
DRN:	NR	07/10/24
DES:	JAV	
CHK:		
APP:		
AFE No.		
FACILITY ENGR.	C. BOYLE	
PROJ. ENGR:	J. MEDINA	
SCALE:	NONE	

COTERRA

TRISTE DRAW 36-25 FED COM

GENERAL ARRANGEMENT PLOT PLAN

LEA COUNTY

PLOT SCALE NONE

DWG. NO. D-24550-20-100

REV.

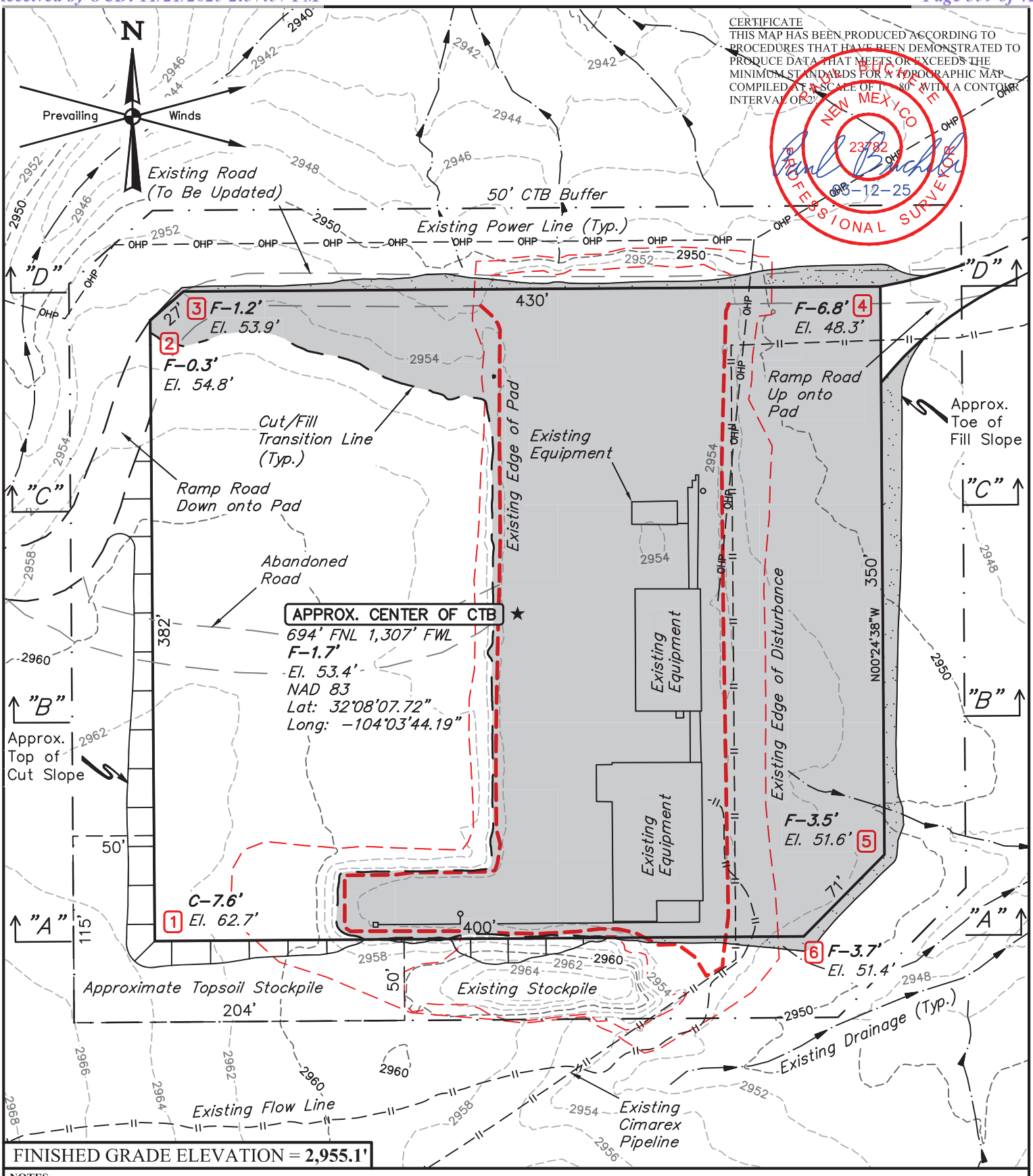
CAD NO.

Q:\01_Coterra\24550 - Triste Draw CTB\2. Eng., Design\2.3 Piping, Mech\2.3.2 Plot Plans\D-24550-20-100.dwg 20240805.101118

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

DATE:	DESCRIPTION:
3/19/2025	FINAL PLAT PACKAGE

UINTAH
ENGINEERING & LAND SURVEYING



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

BUCKNER NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

FINISHED GRADE ELEVATION = **2,955.1'**

NOTES:

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

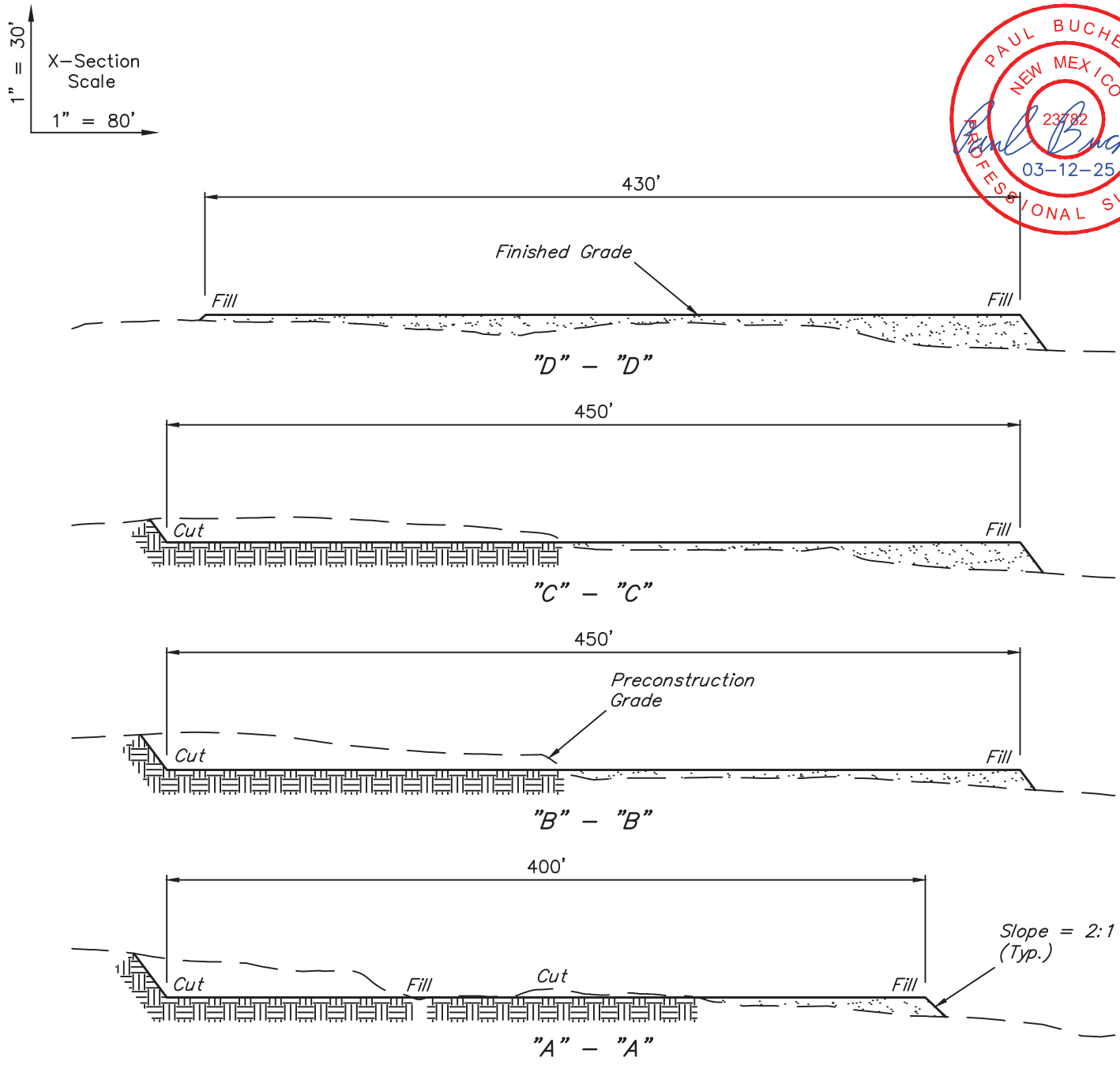
CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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



PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	1,300 Cu. Yds.
REMAINING LOCATION	10,920 Cu. Yds.
TOTAL CUT	**12,220 Cu. Yds.**
FILL	**10,920 Cu. Yds.**
EXCESS MATERIAL	1,300 Cu. Yds.
TOPSOIL	1,300 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
EXISTING PAD DISTURBANCE	NA	±2.383
PROPOSED EXPANSION DISTURBANCE (NEW CONSTRUCTION ONLY)	NA	±2.669
30' WIDE POWER LINE R-O-W DISTURBANCE	±426.73'	±0.294
TOTAL SURFACE USE AREA		**±5.346**

NOTES:

- Fill quantity includes 5% for compaction.

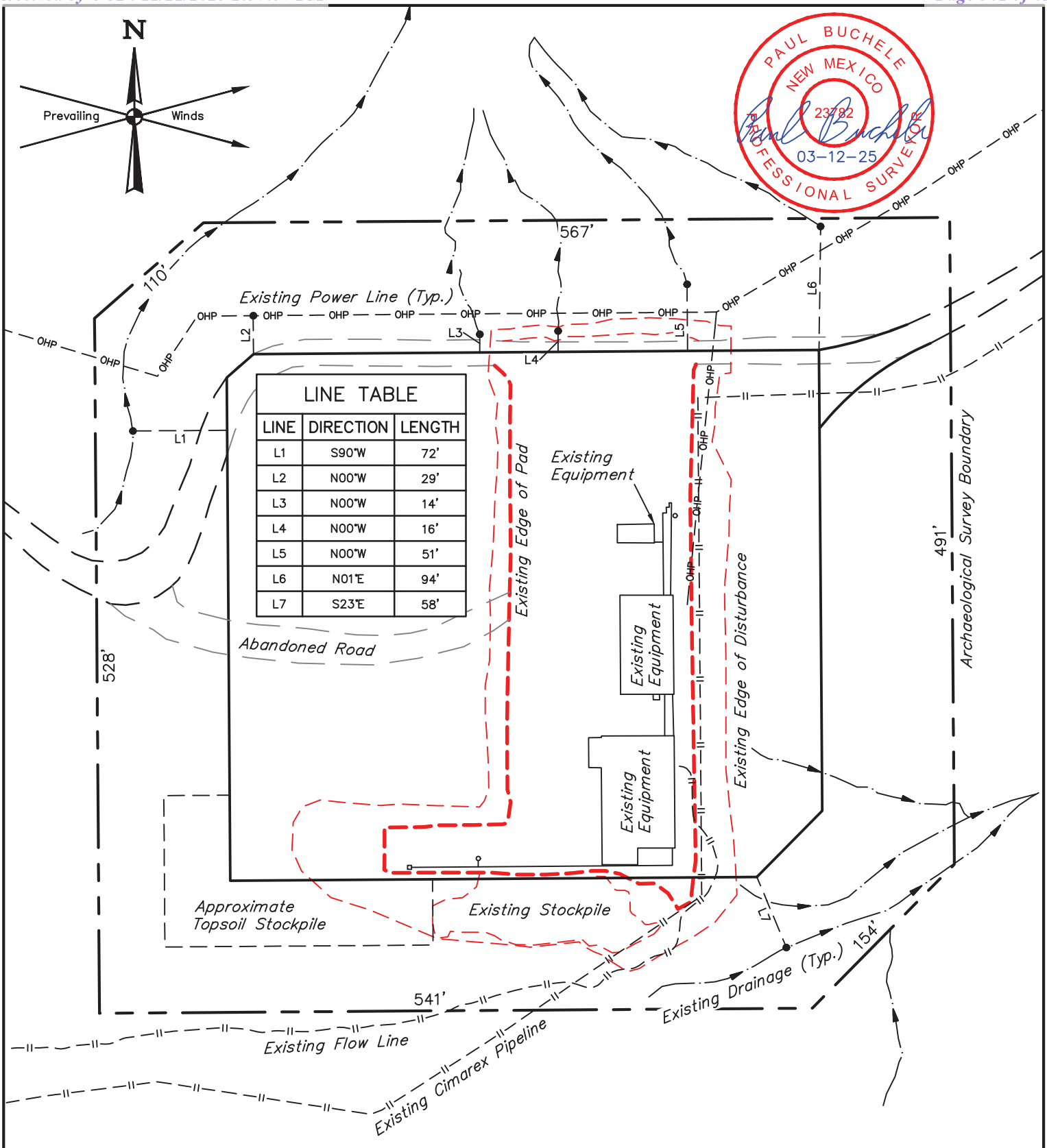
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	**SCALE**
DRAWN BY	N.R.	03-12-25	AS SHOWN

TYPICAL CROSS SECTIONS **EXHIBIT F**

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



NOTES:

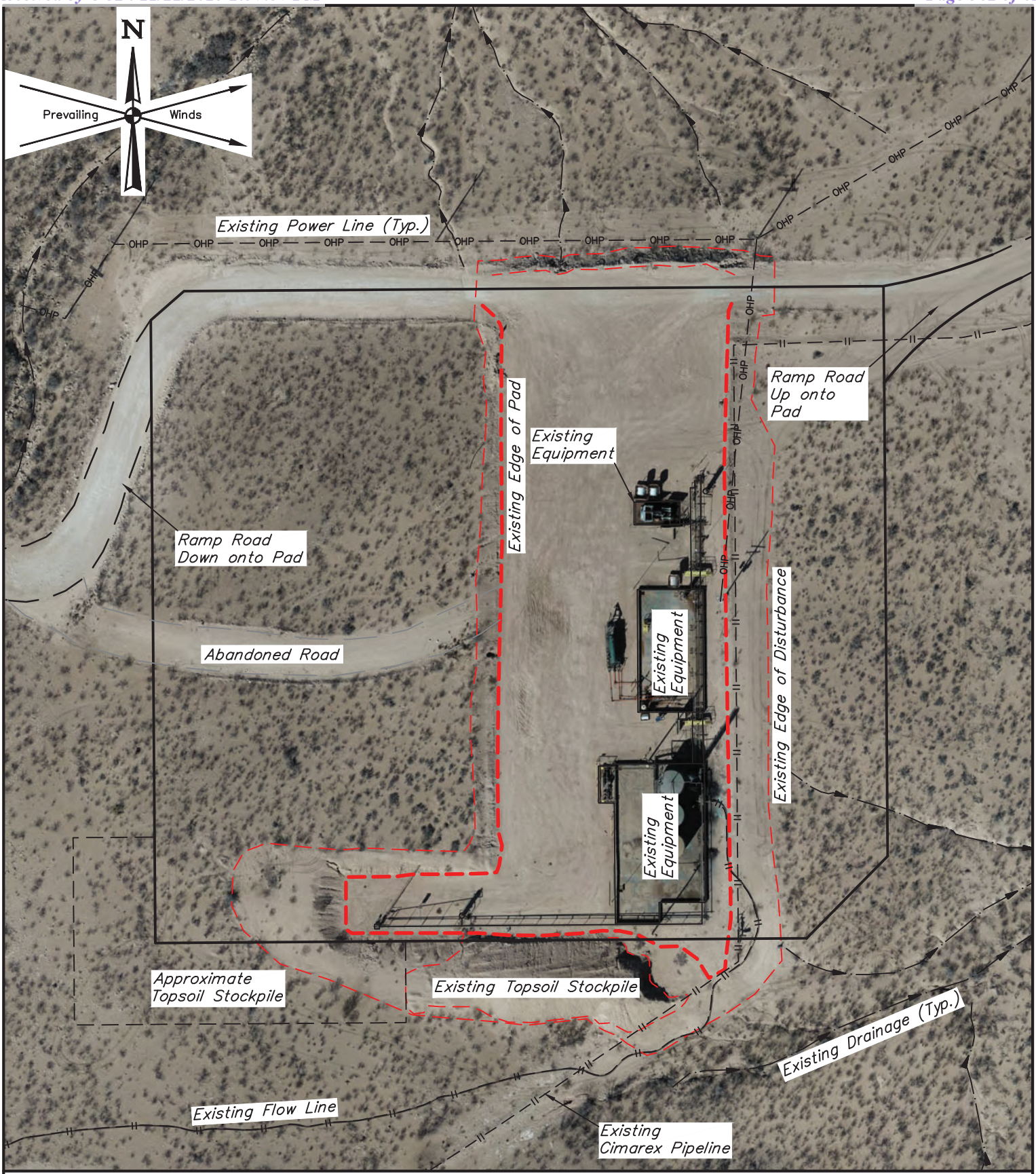
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT F

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



NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

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

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

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.0 MILE TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.0 MILES.

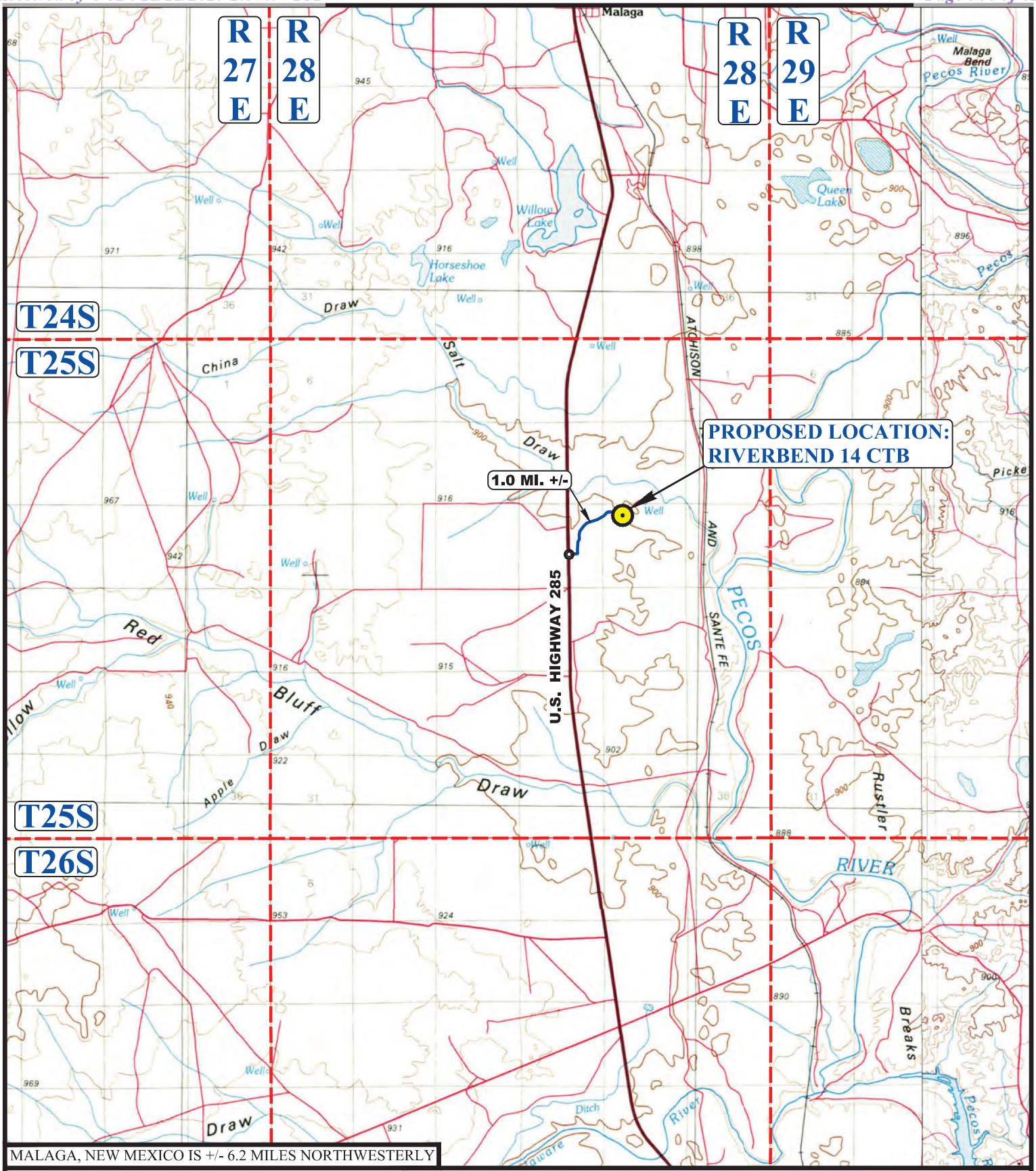
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	

ROAD DESCRIPTION **EXHIBIT F**

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



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

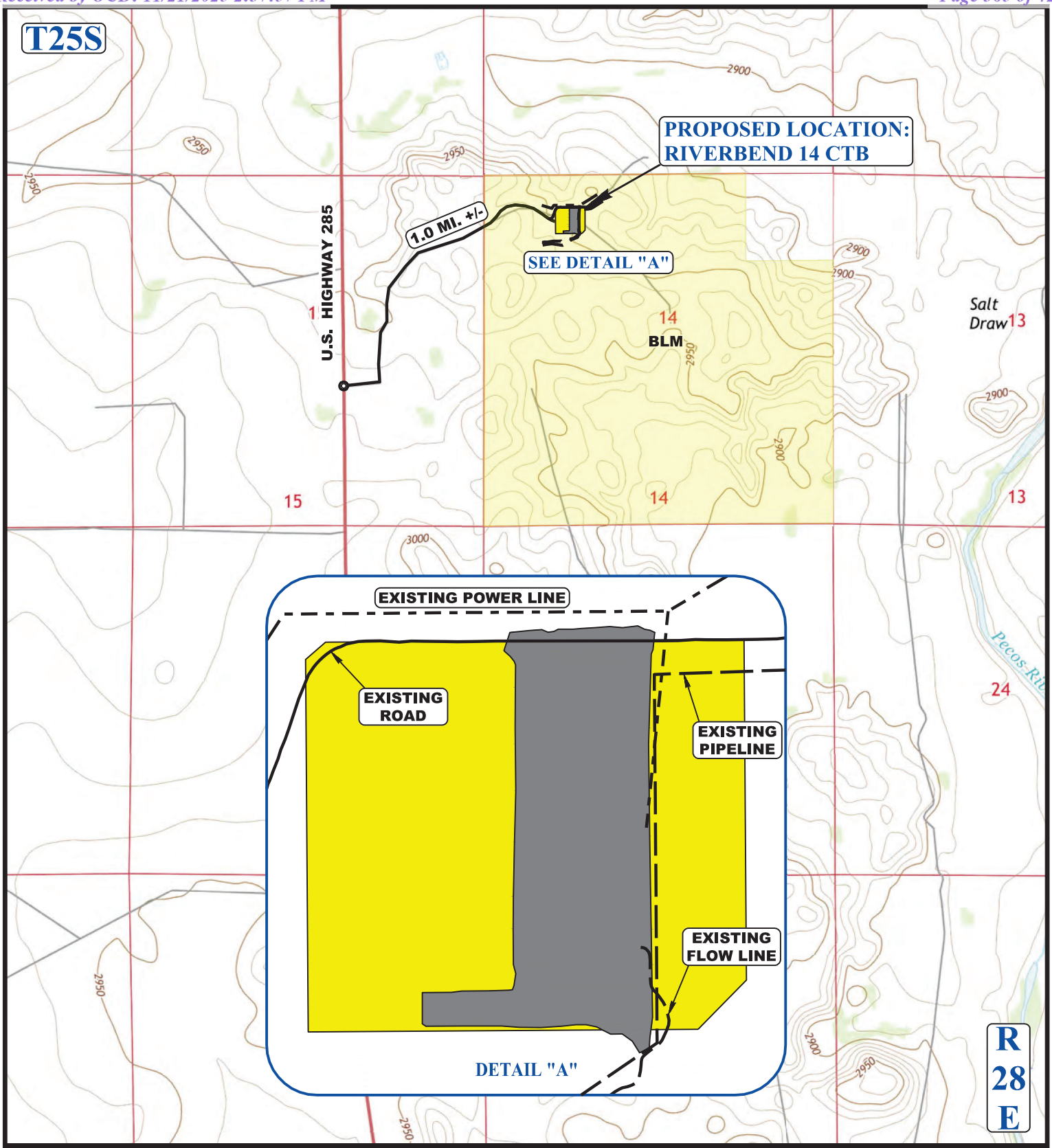
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP | **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE/FLOW LINE

N

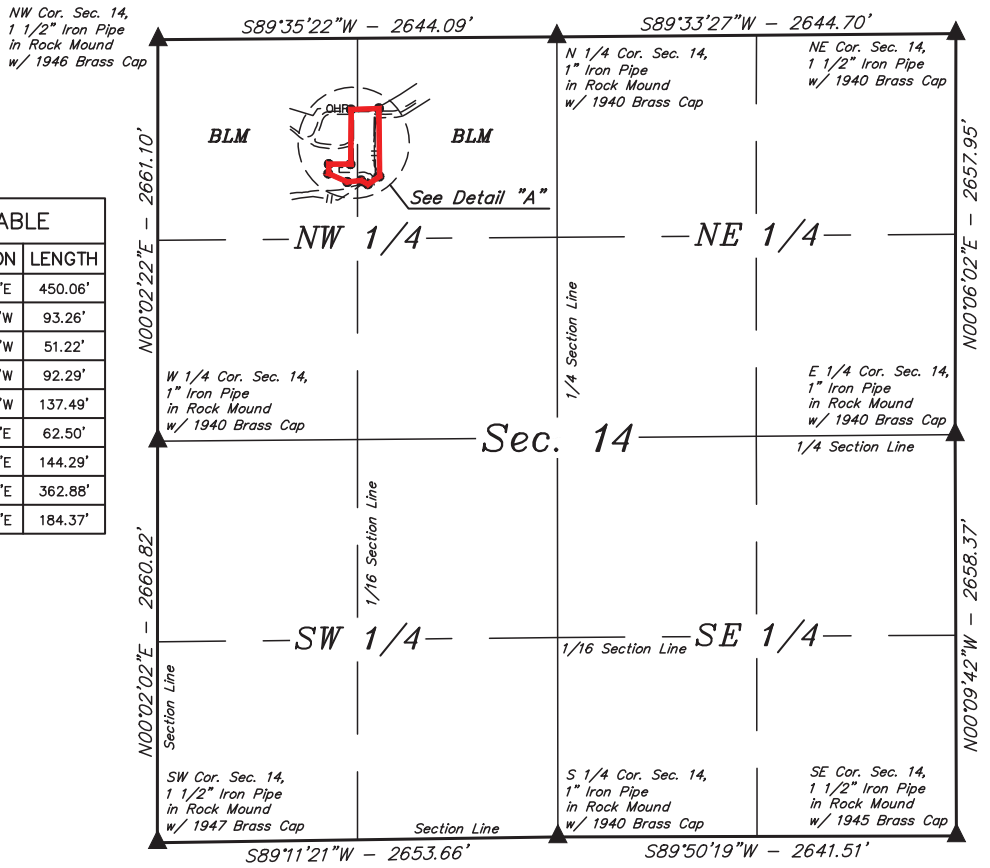
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 24,000

NEW ROAD MAP **EXHIBIT F**

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

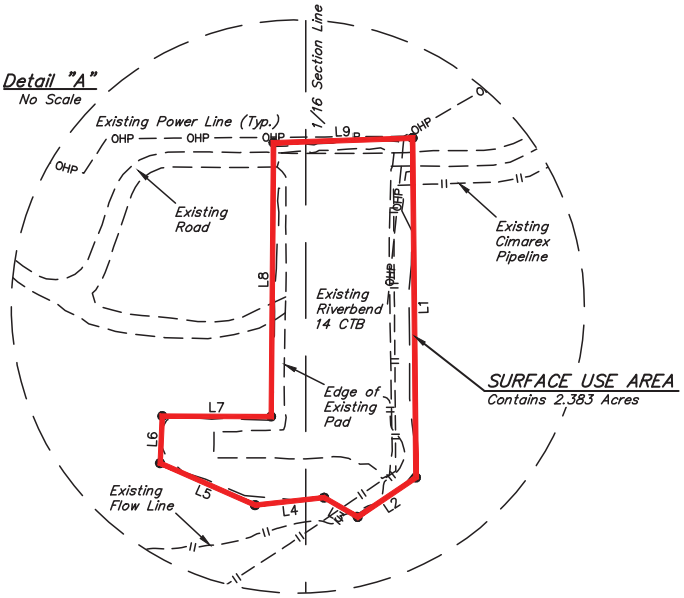


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

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





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

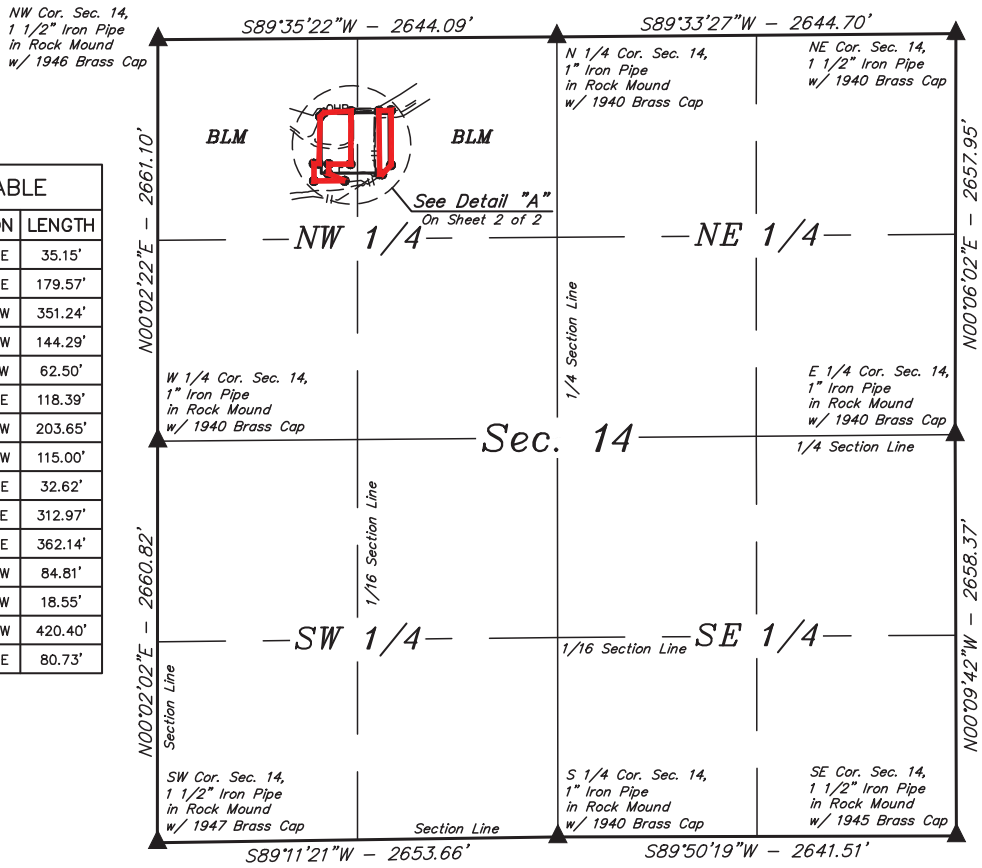
NOTES:
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UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

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	1" = 1000'
FILE	C-7901-A		
EXISTING SURFACE USE AREA			EXHIBIT F



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N44°40'42"E	35.15'
L2	N87°00'34"E	179.57'
L3	S00°29'04"W	351.24'
L4	N89°45'49"W	144.29'
L5	S02°41'43"W	62.50'
L6	S66°08'24"E	118.39'
L7	S89°35'22"W	203.65'
L8	N00°24'38"W	115.00'
L9	N89°35'22"E	32.62'
L10	N01°46'53"E	312.97'
L11	S00°04'00"E	362.14'
L12	S43°29'22"W	84.81'
L13	N85°13'30"W	18.55'
L14	N00°34'57"W	420.40'
L15	N88°45'35"E	80.73'

SURFACE USE AREA "A" DESCRIPTION

COMMENCING AT THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 14 BEARS N89°35'22"E 2644.09', THENCE S64°40'24"E 1189.56' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N44°40'42"E 35.15'; THENCE N87°00'34"E 179.57'; THENCE S00°29'04"W 351.24'; THENCE N89°45'49"W 144.29'; THENCE S02°41'43"W 62.50'; THENCE S66°08'24"E 118.39'; THENCE S89°35'22"W 203.65'; THENCE N00°24'38"W 115.00'; THENCE N89°35'22"E 32.62'; THENCE N01°46'53"E 312.97' TO THE POINT OF BEGINNING. CONTAINS 1.946 ACRES MORE OR LESS.

SURFACE USE AREA "B" DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S66°03'17"W 1203.08' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°04'00"E 362.14'; THENCE S43°29'22"W 84.81'; THENCE N85°13'30"W 18.55'; THENCE N00°34'57"W 420.40'; THENCE N88°45'35"E 80.73' TO THE POINT OF BEGINNING. CONTAINS 0.723 ACRES MORE OR LESS.

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

POINT OF BEGINNING "B" BEARS S66°03'17"W
1203.08' FROM THE NORTH 1/4 CORNER OF
SECTION 14, T25S, R28E, N.M.P.M.

SURFACE USE AREA "A" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	1.946

SURFACE USE AREA "B" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.723

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

Sheet 1 of 2

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

N

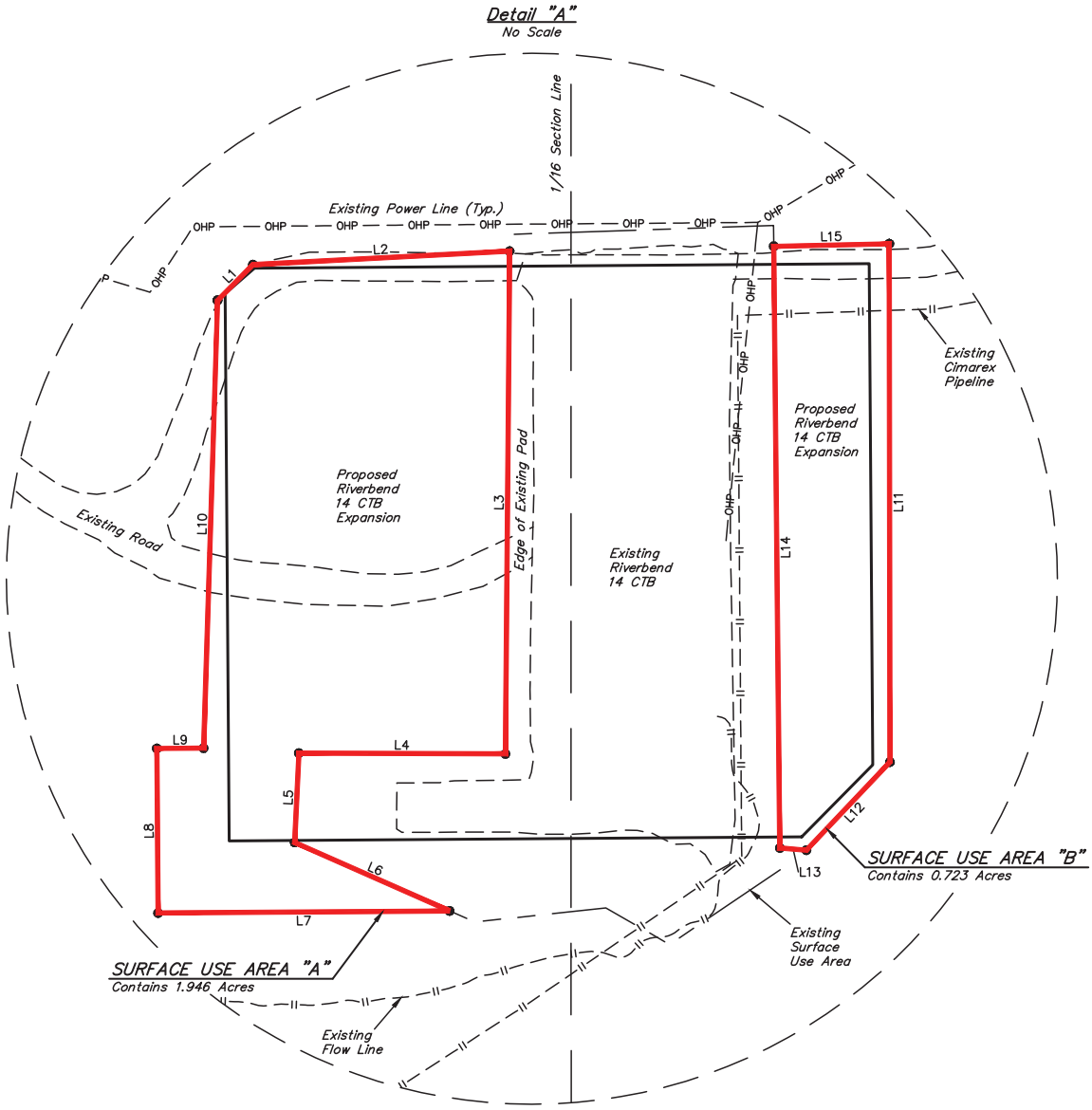
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A1		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

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



CERTIFICATE

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 2 of 2

NOTES:

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

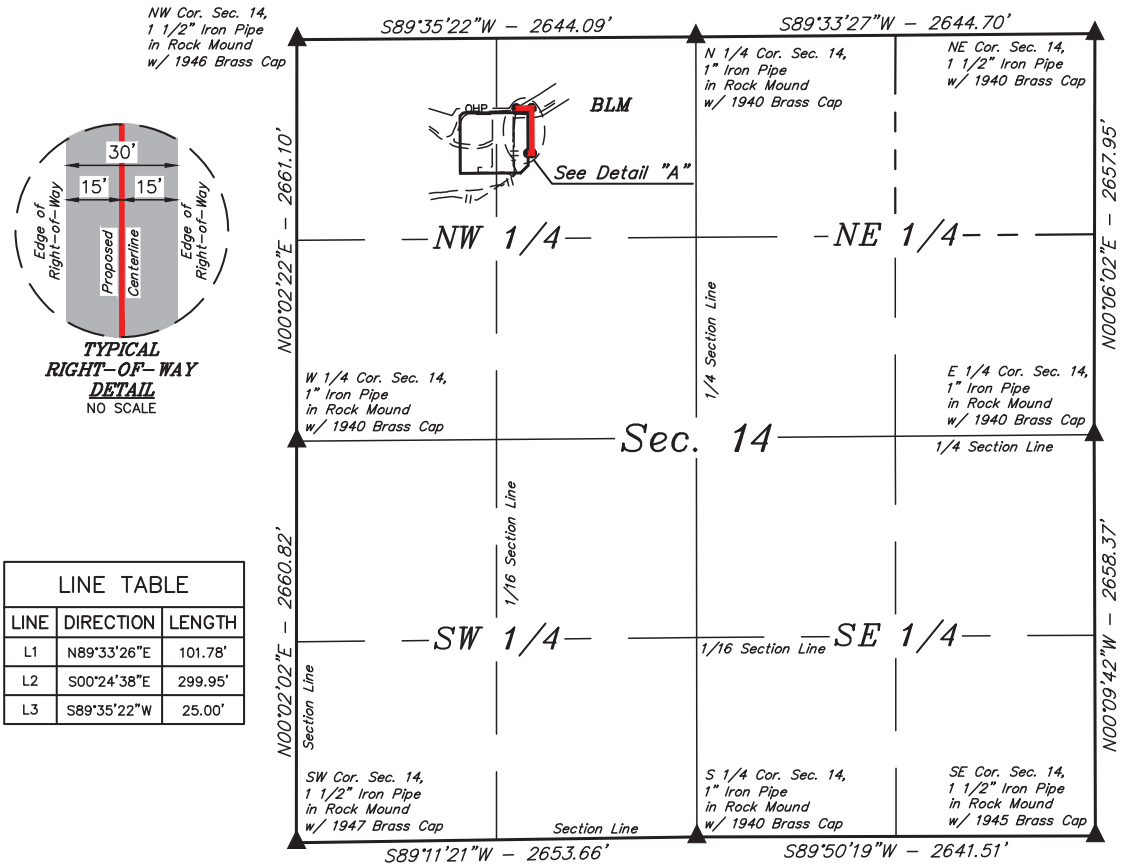
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CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		
EXPANSION SURFACE USE AREA			EXHIBIT F

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



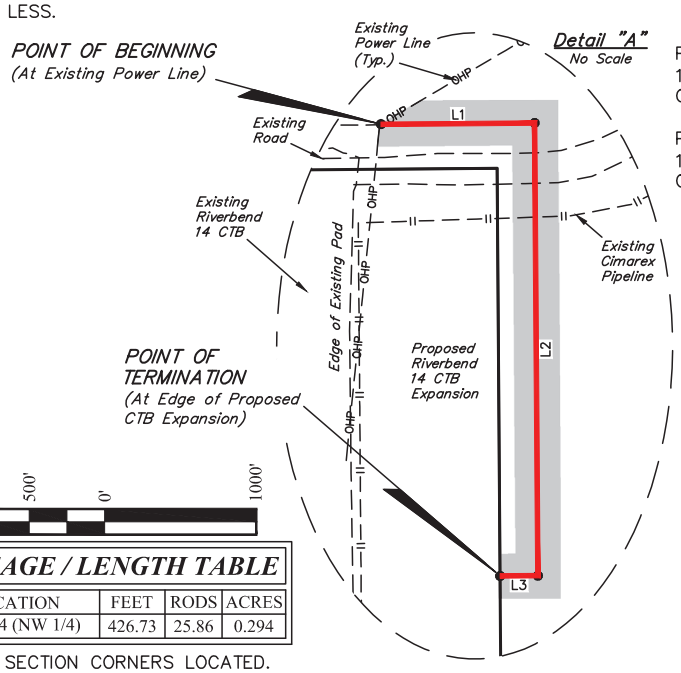
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

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

POWER LINE RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 299.95'; THENCE S89°35'22"W 25.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.294 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S68°20'04"W 1281.05' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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

▲ = SECTION CORNERS LOCATED.

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

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

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

CIMAREX ENERGY CO.

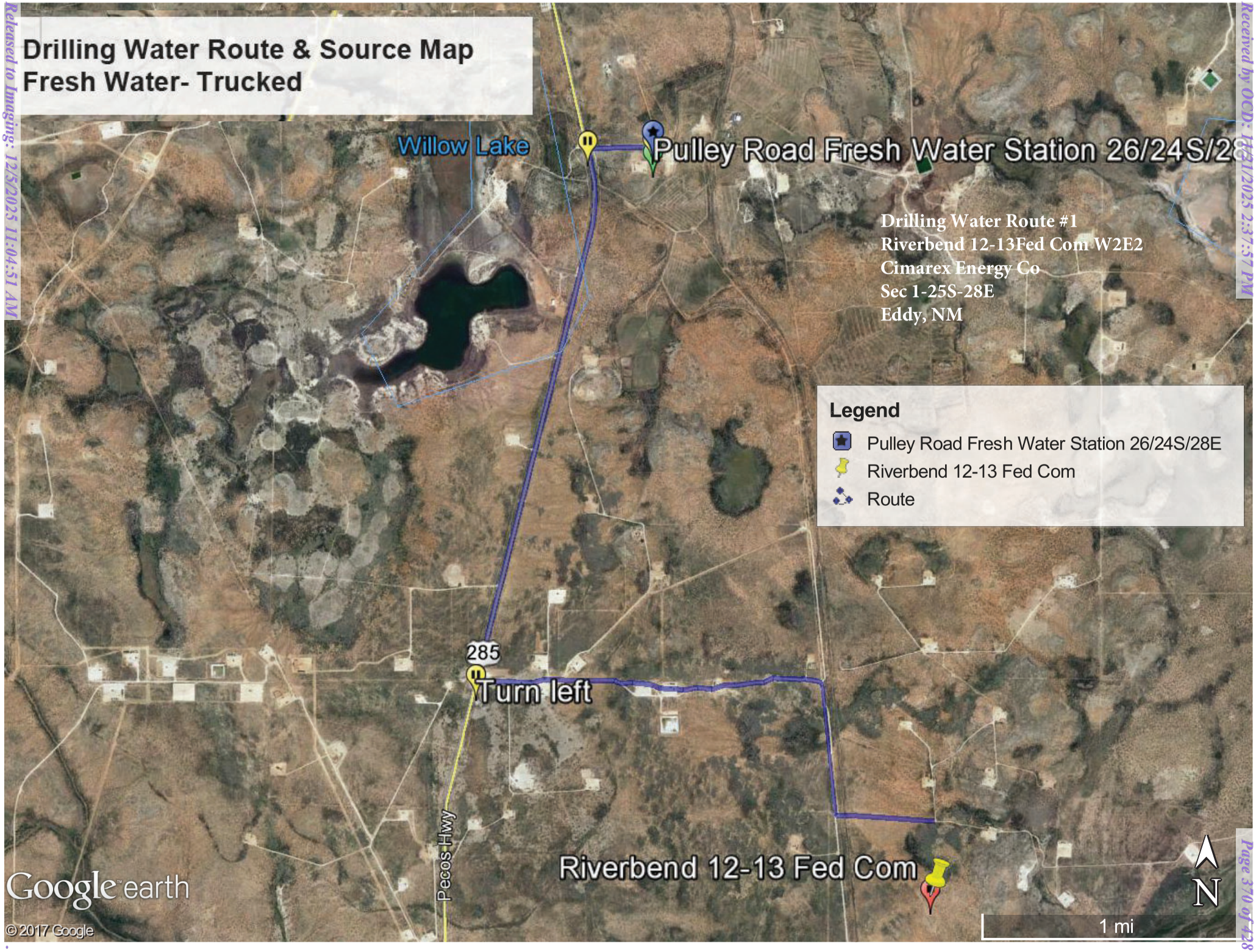
RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

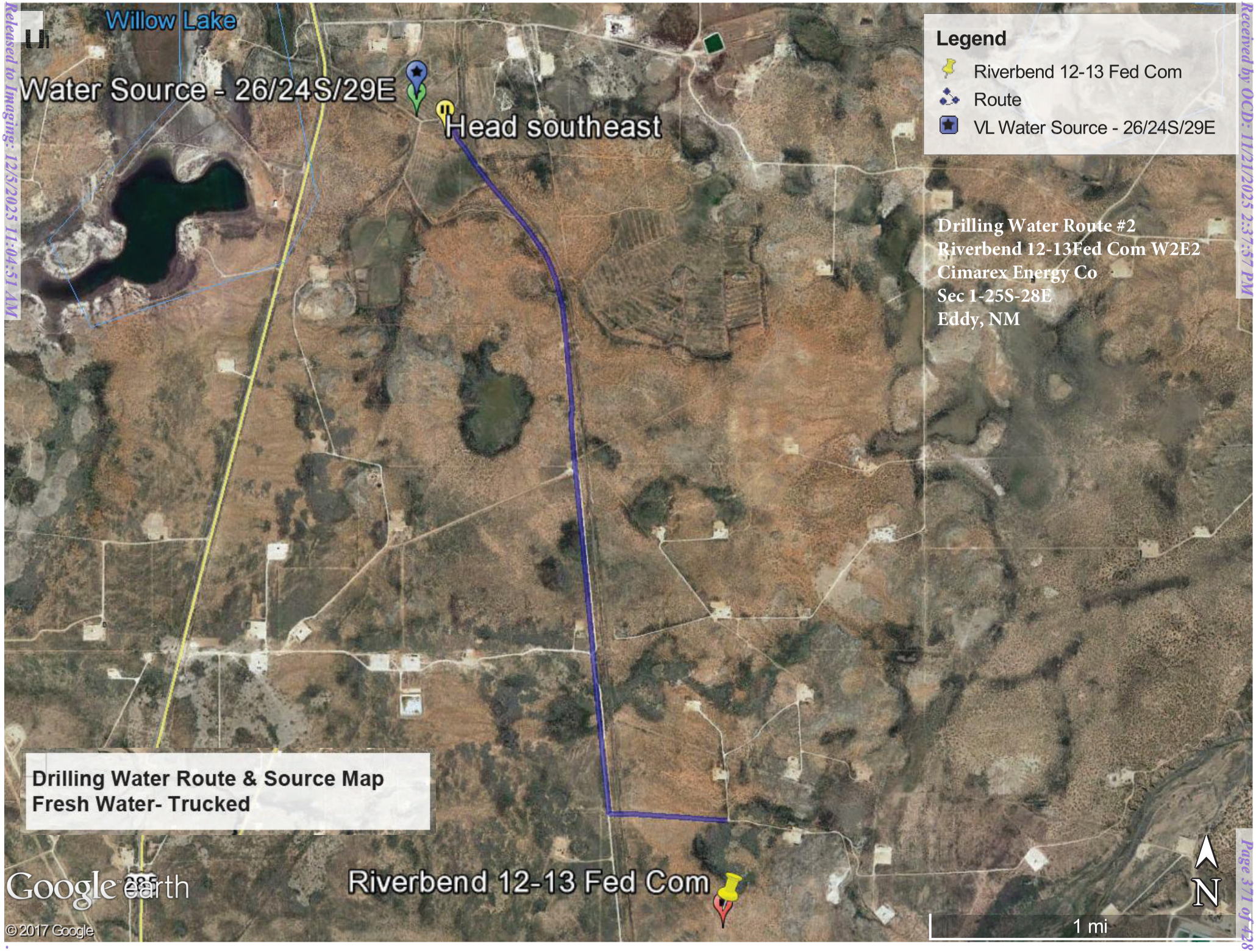
UINTAH ENGINEERING & LAND SURVEYING

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

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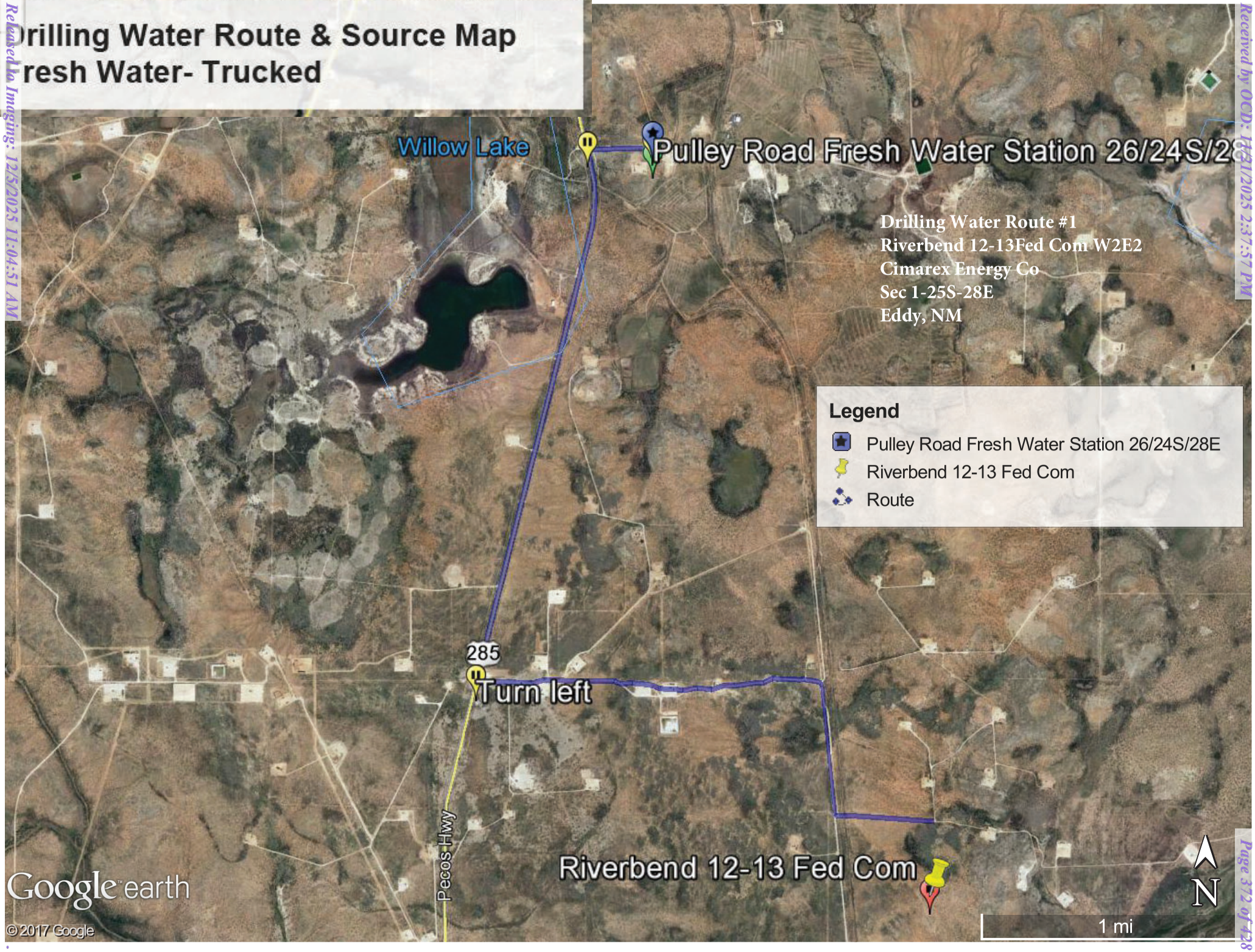


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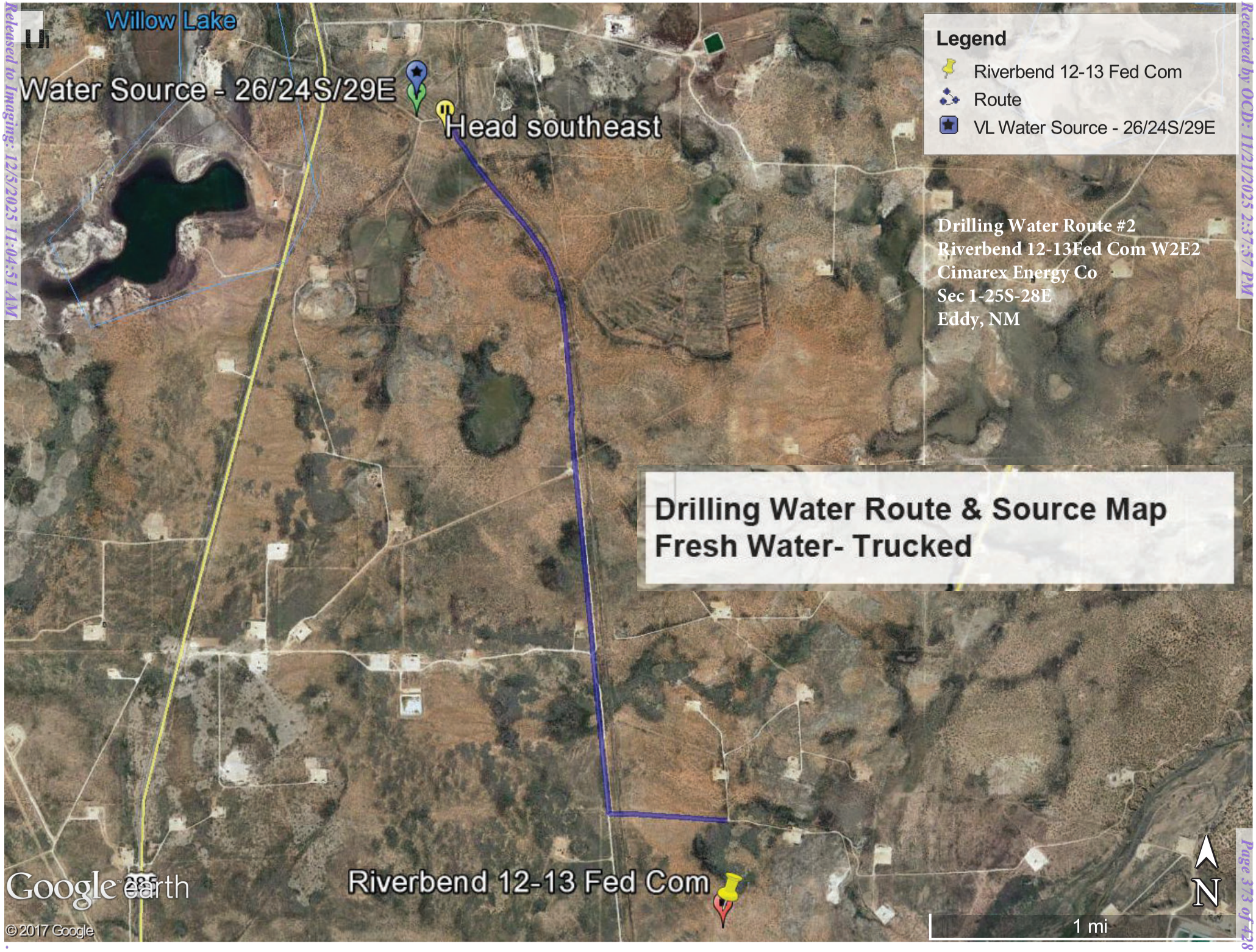


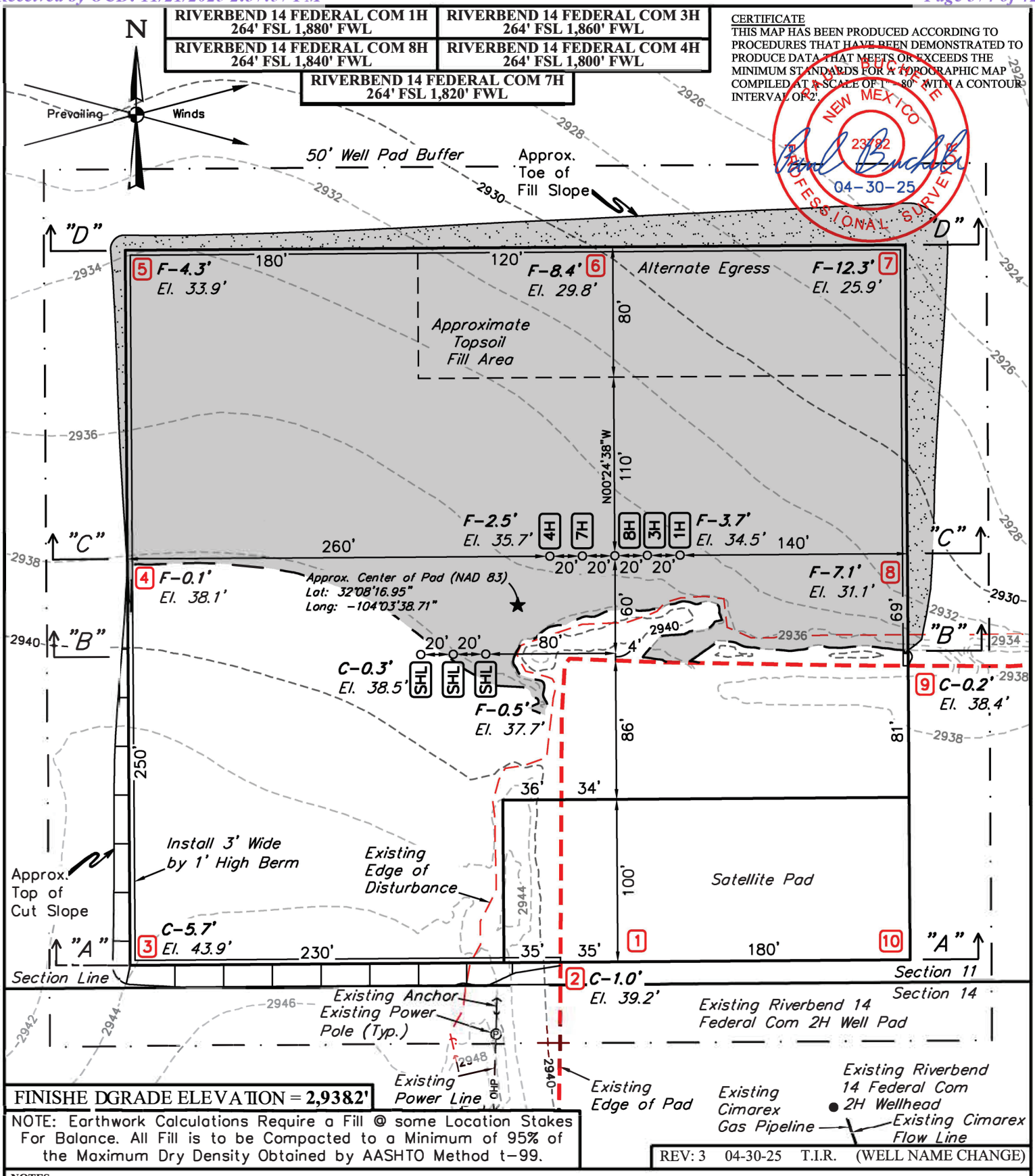
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Received by OCD: 12/1/2025 2:37:57 PM

Drilling Water Route & Source Map
Fresh Water- Trucked



Released to Imaging: 12/5/2025 11:04:51 AM
Received by OCD: 11/21/2025 2:37:57 PM





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

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

FINISHED GRADE ELEVATION = 2,938'

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

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

NOTES:

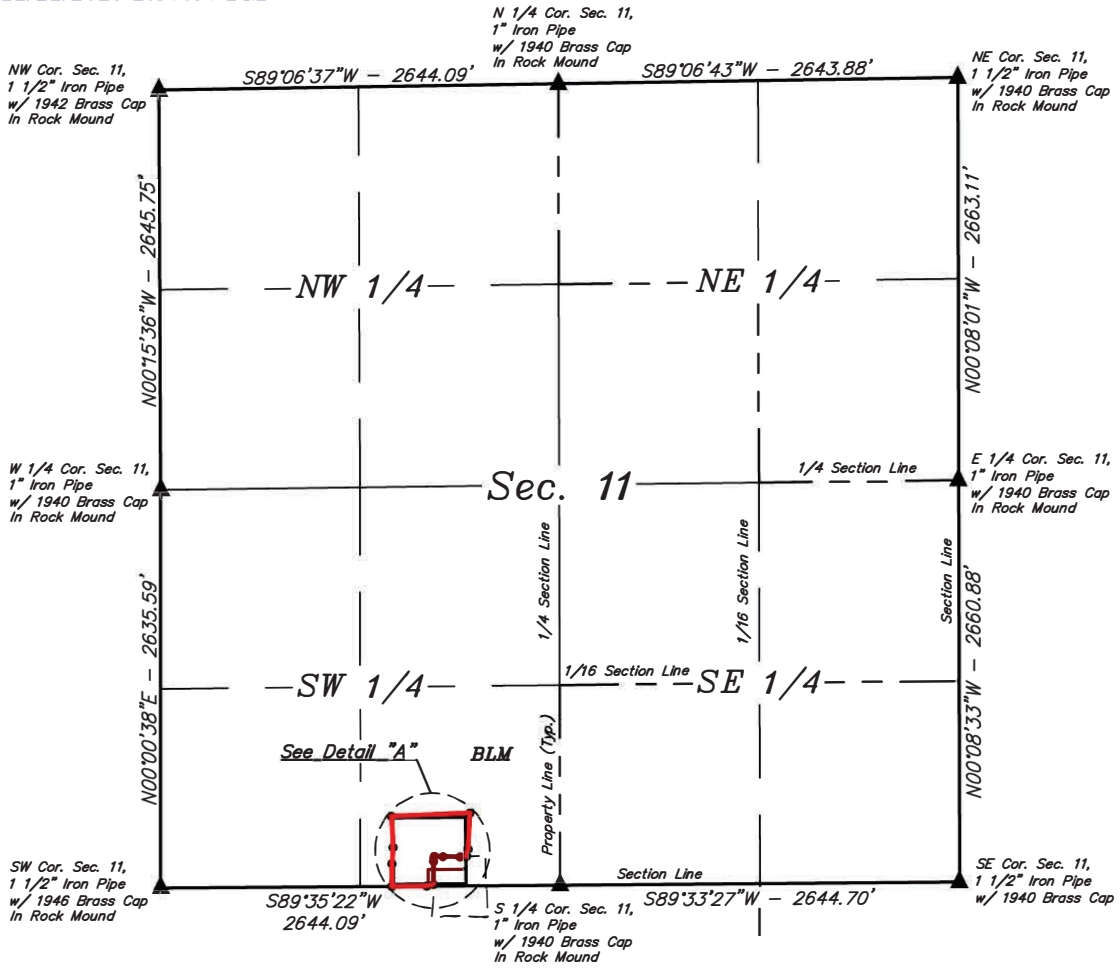
- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator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

CIMAREX ENERGY CO.

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

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

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



SURFACE USE AREA DESCRIPTION

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

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

1000' 500' 0' 1000'

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

▲ = SECTION CORNERS LOCATED.

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

23782 PROFESSIONAL SURVEYOR 08-20-24

Sheet 1 of 2

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

N

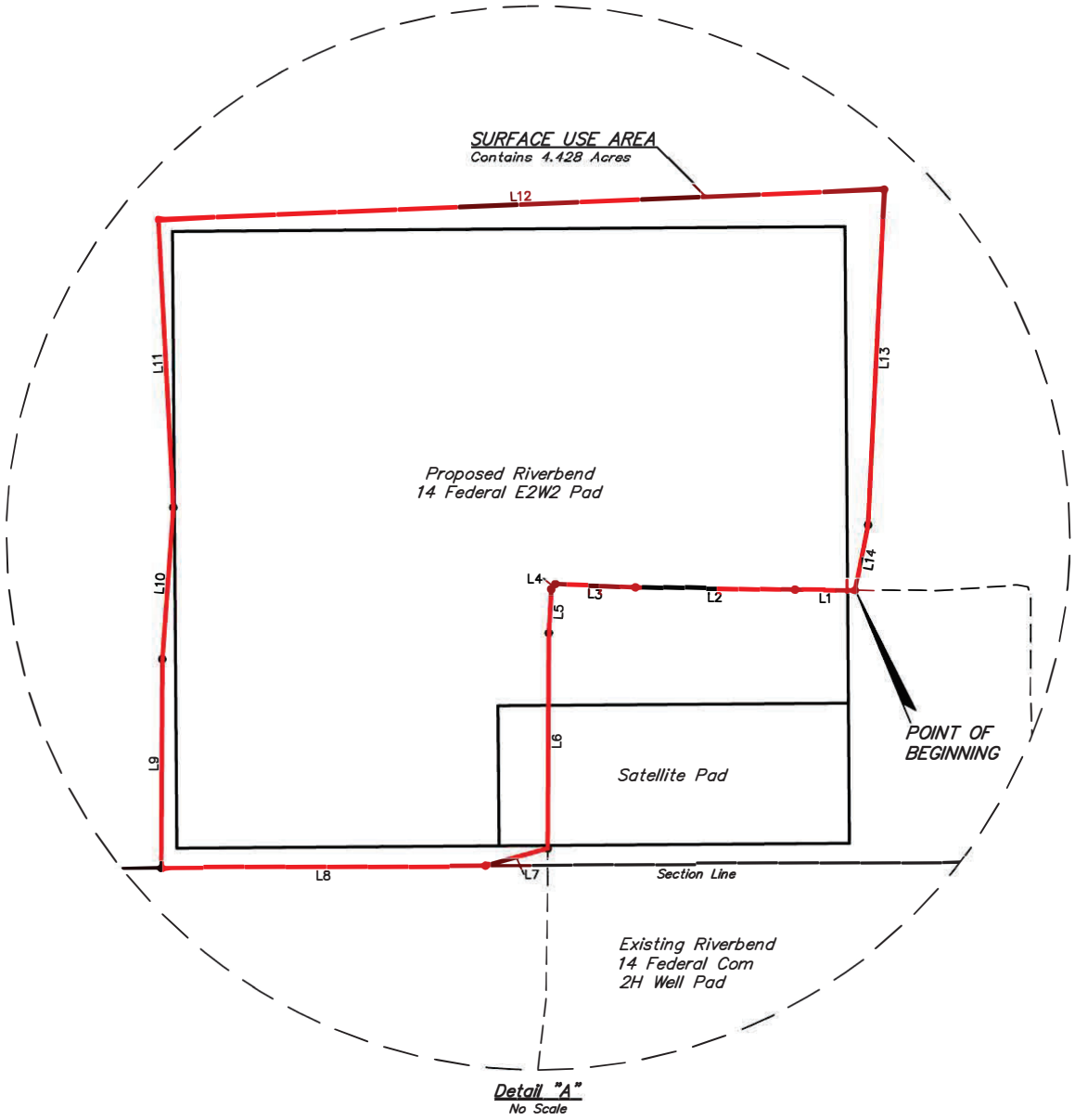
CIMAREX ENERGY CO.

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

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

SURFACE USE AREA

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



Detail "A"
No Scale

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

CERTIFICATE
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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

Sheet 2 of 2

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

N

CIMAREX ENERGY CO.

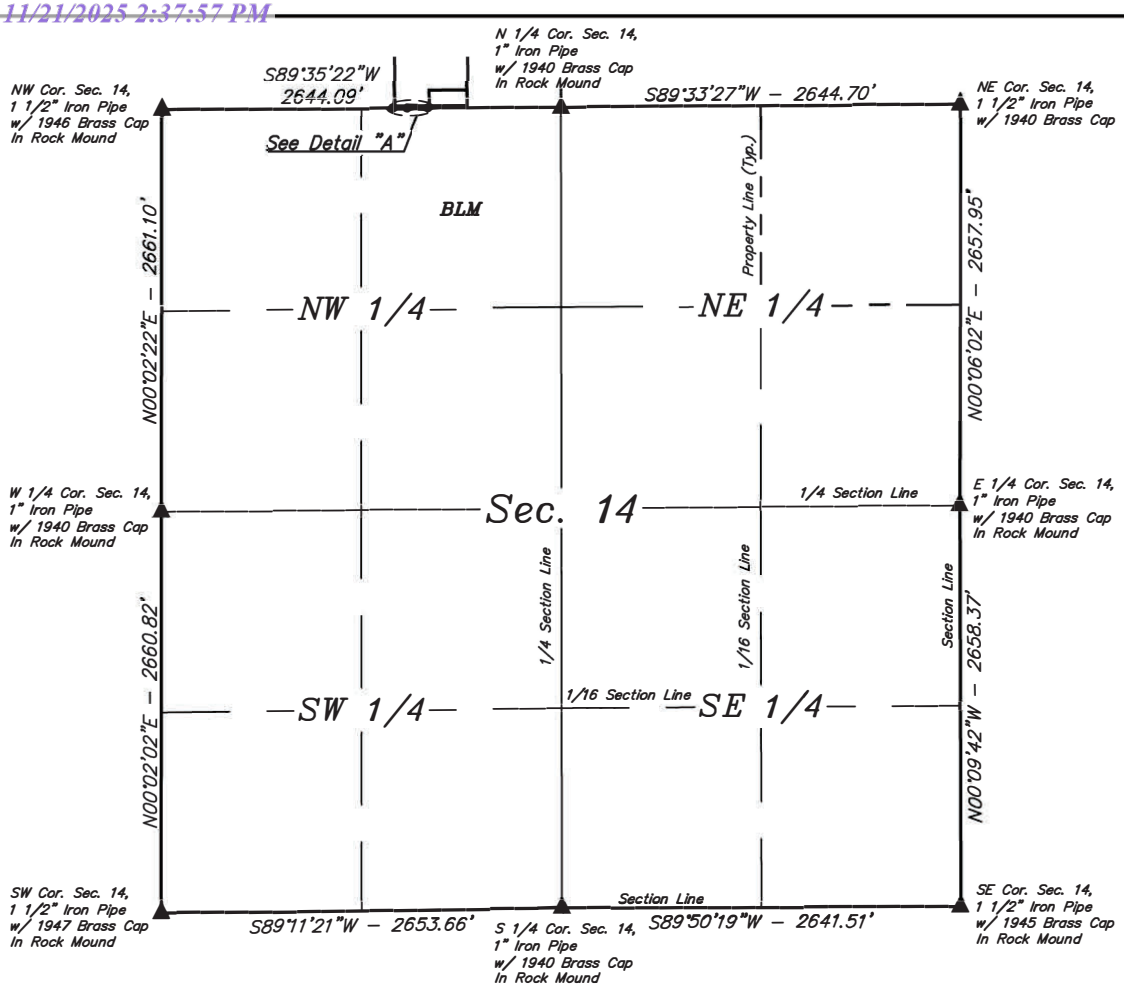
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

SURFACE USE AREA

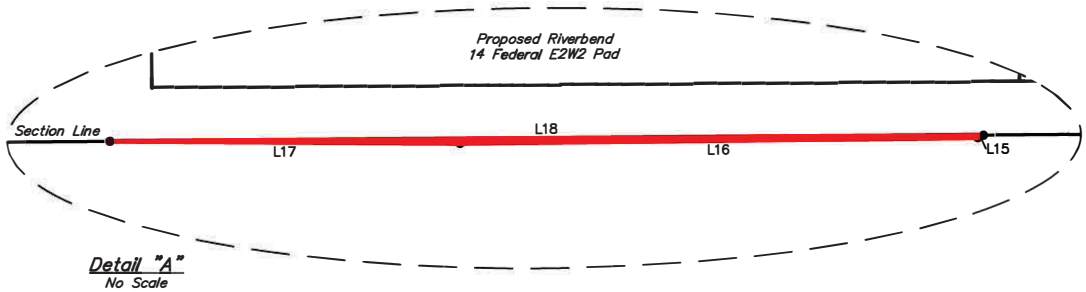
UINTAH ENGINEERING & LAND SURVEYING

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



SURFACE USE AREA DESCRIPTION

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



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

1000' 500' 0' 1000'

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

▲ = SECTION CORNERS LOCATED.

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

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

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

N

CIMAREX ENERGY CO.

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

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

SURFACE USE AREA

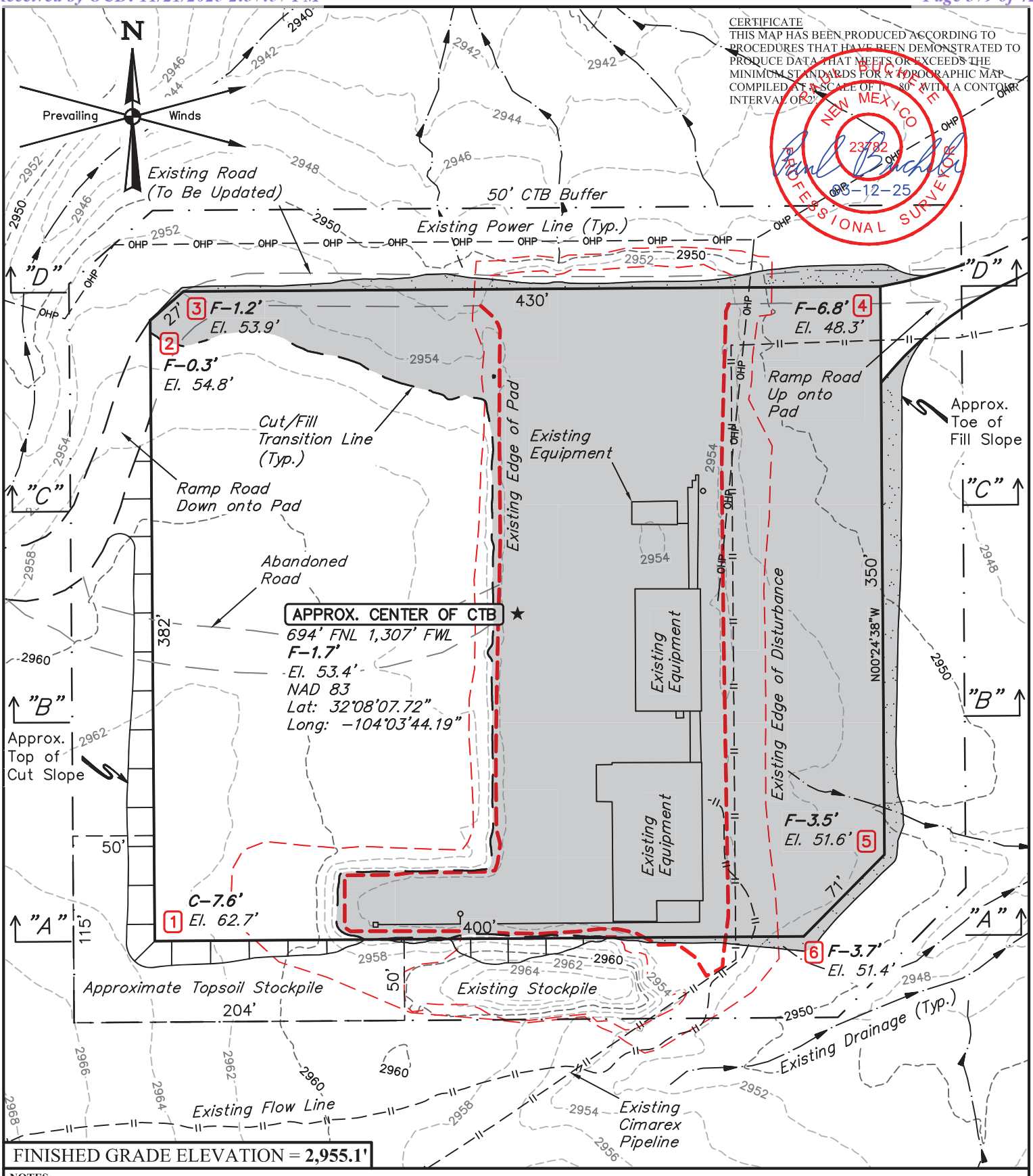
UINTAH ENGINEERING & LAND SURVEYING

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

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

DATE:	DESCRIPTION:
3/19/2025	FINAL PLAT PACKAGE

UINTAH
ENGINEERING & LAND SURVEYING



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

BUCKMAN NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

FINISHED GRADE ELEVATION = **2,955.1'**

NOTES:

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

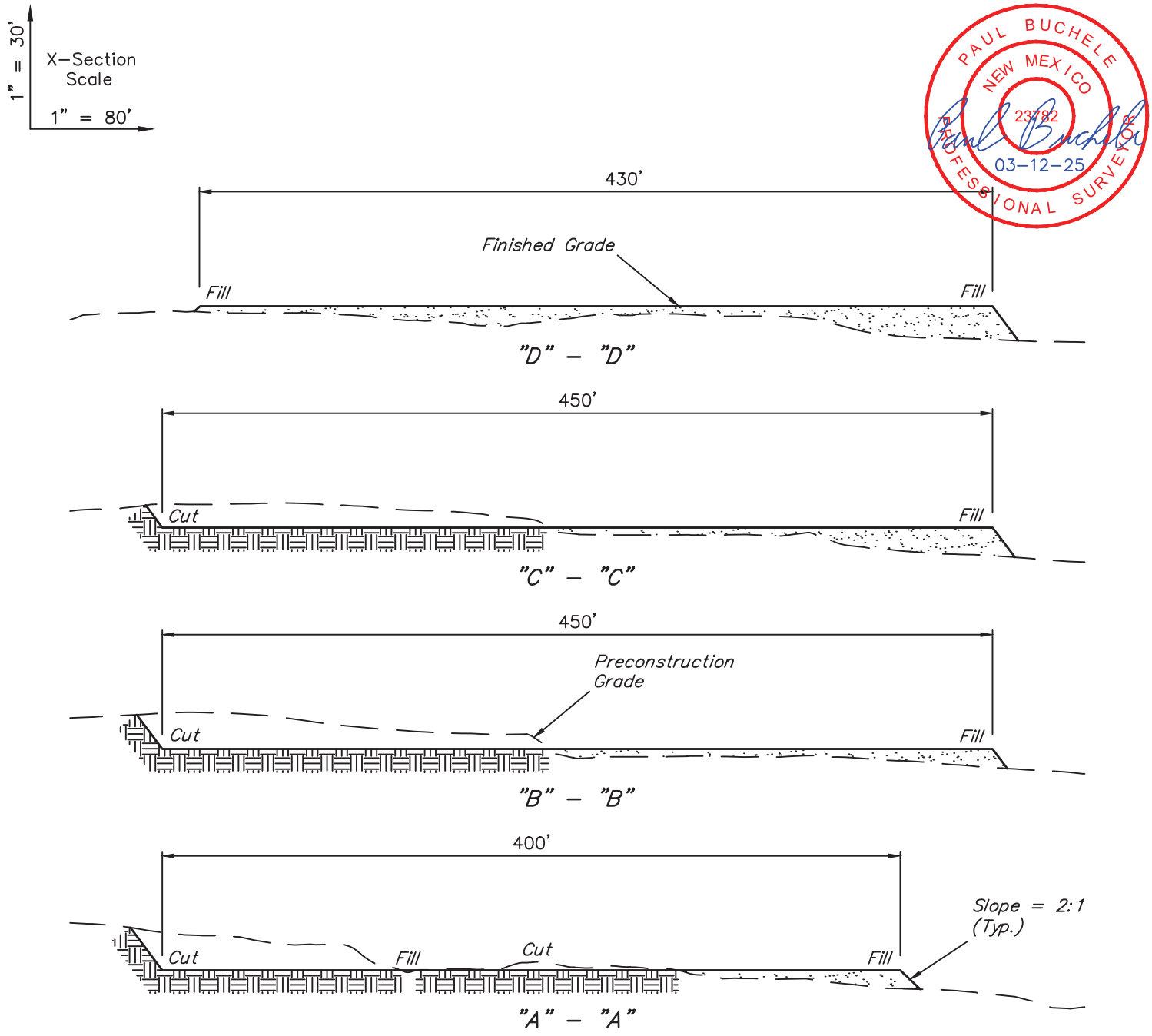
CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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



PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
03-12-25

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	1,300 Cu. Yds.
REMAINING LOCATION	10,920 Cu. Yds.
TOTAL CUT	**12,220 Cu. Yds.**
FILL	**10,920 Cu. Yds.**
EXCESS MATERIAL	1,300 Cu. Yds.
TOPSOIL	1,300 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
EXISTING PAD DISTURBANCE	NA	±2.383
PROPOSED EXPANSION DISTURBANCE (NEW CONSTRUCTION ONLY)	NA	±2.669
30' WIDE POWER LINE R-O-W DISTURBANCE	±426.73'	±0.294
TOTAL SURFACE USE AREA		**±5.346**

NOTES:

- Fill quantity includes 5% for compaction.

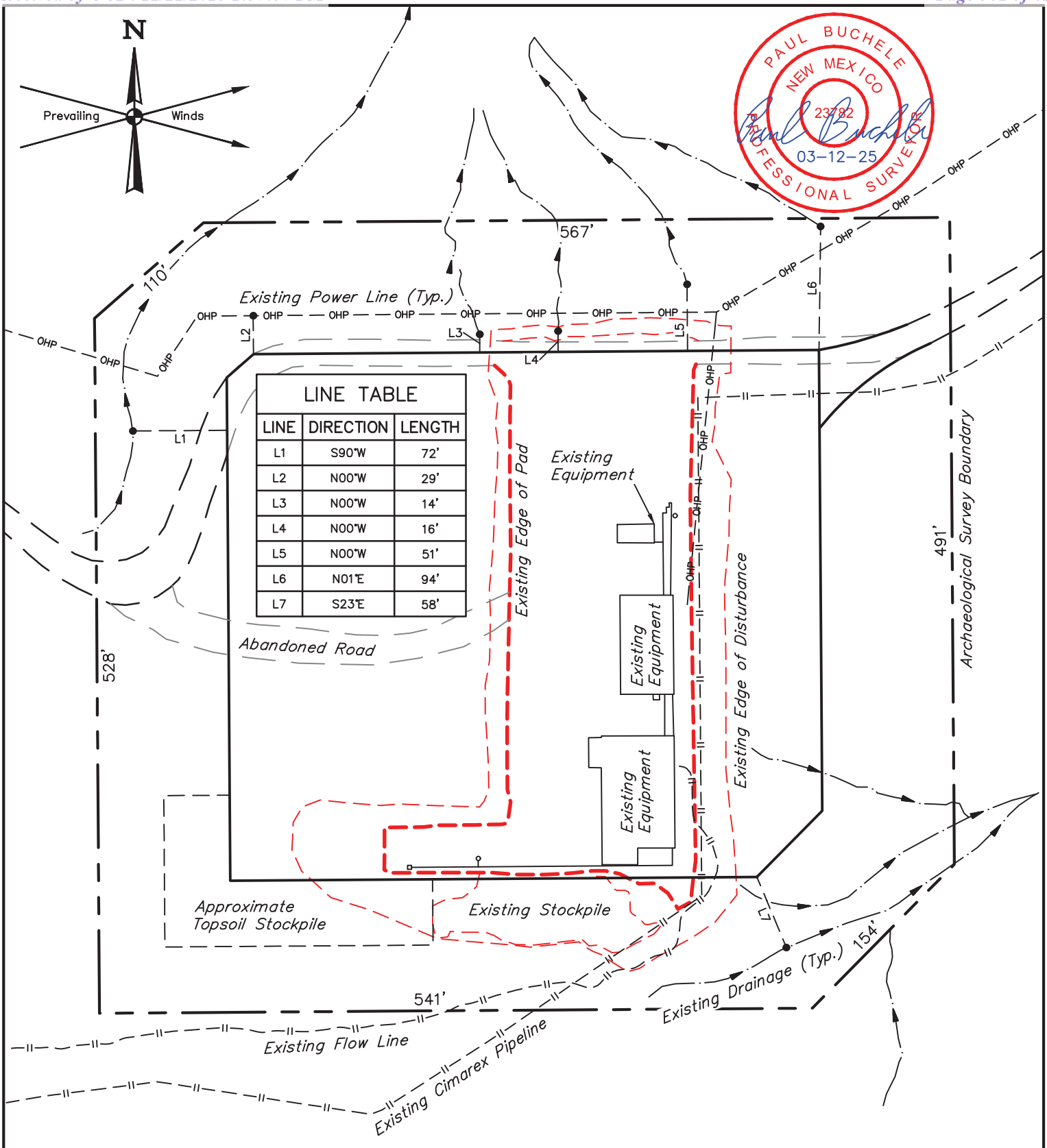
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	**SCALE**
DRAWN BY	N.R.	03-12-25	AS SHOWN
TYPICAL CROSS SECTIONS			**EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

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



NOTES:

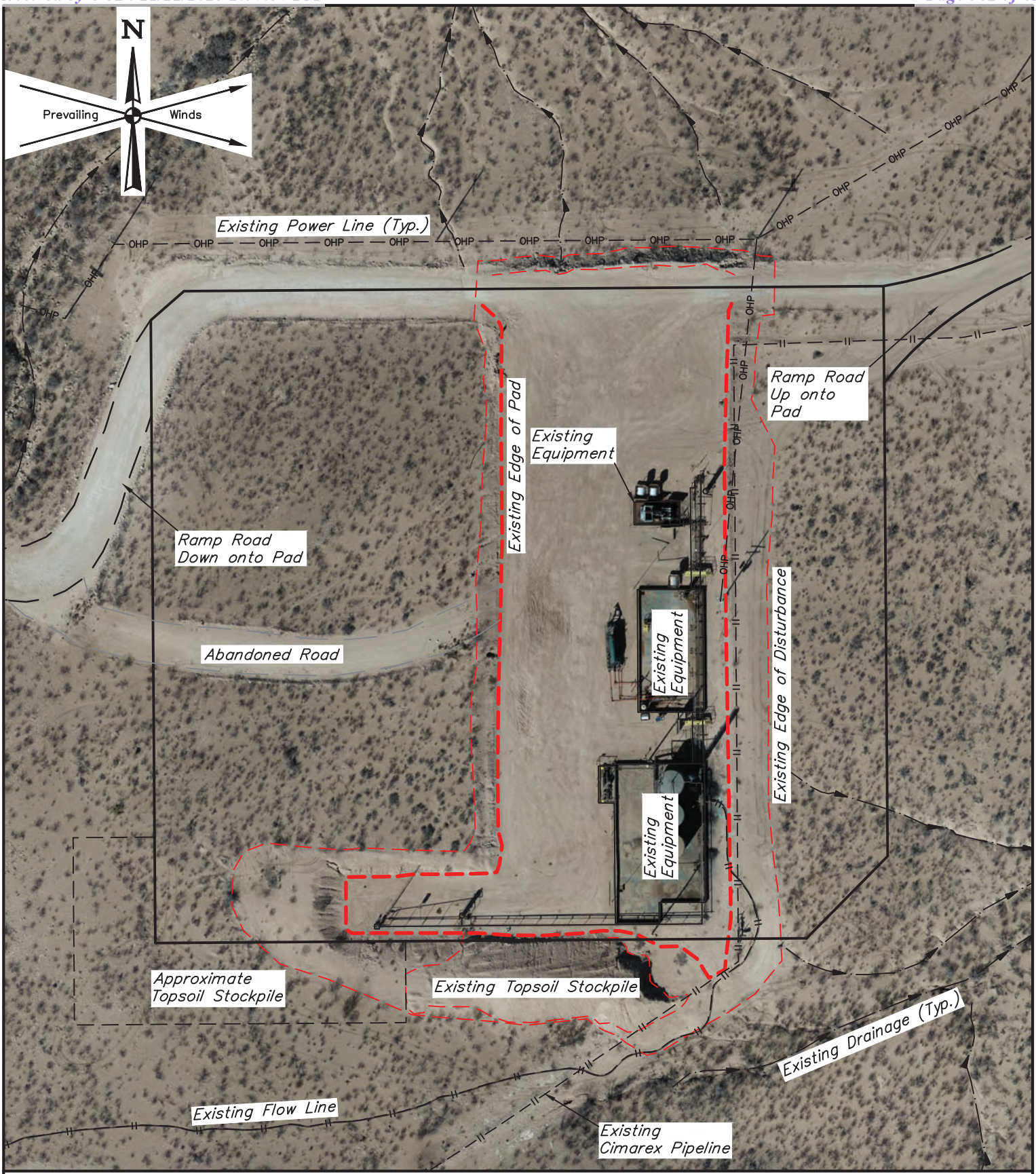
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT F

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



NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

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

AERIAL SITE PLAN **EXHIBIT F**

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

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.0 MILE TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.0 MILES.

CIMAREX ENERGY CO.

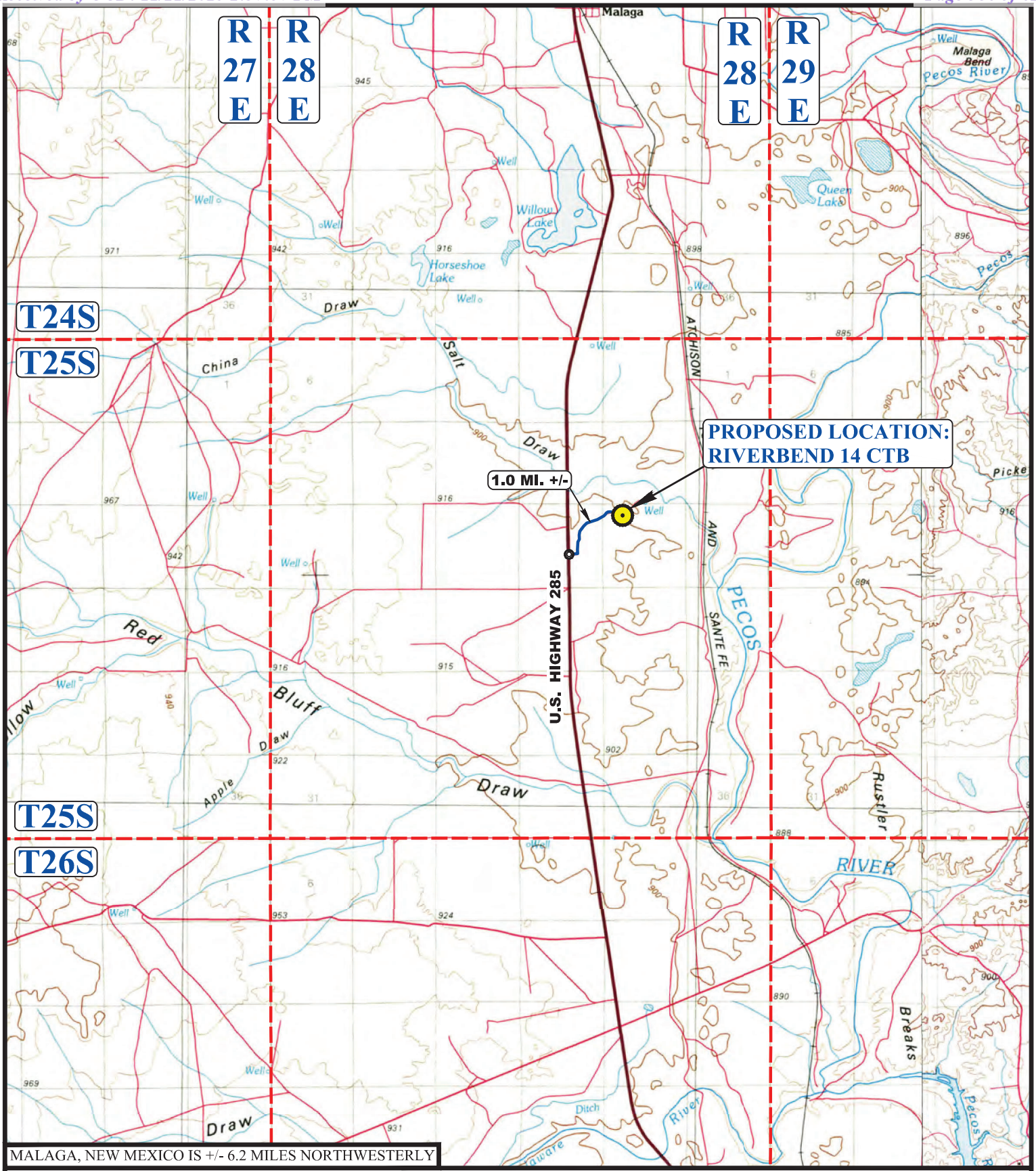
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
NW 1/4 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	

ROAD DESCRIPTION **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

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



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

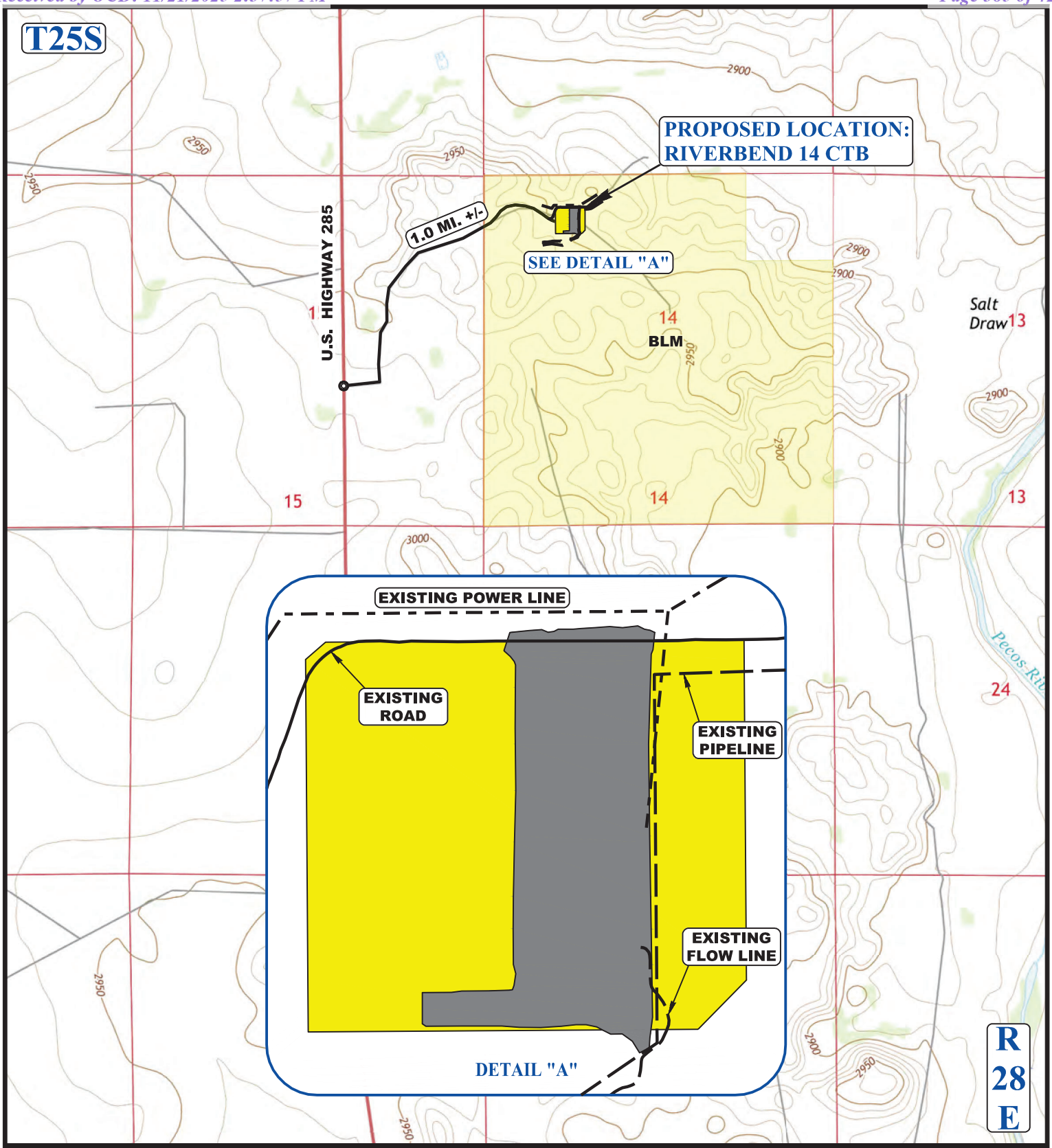
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE/FLOW LINE

N

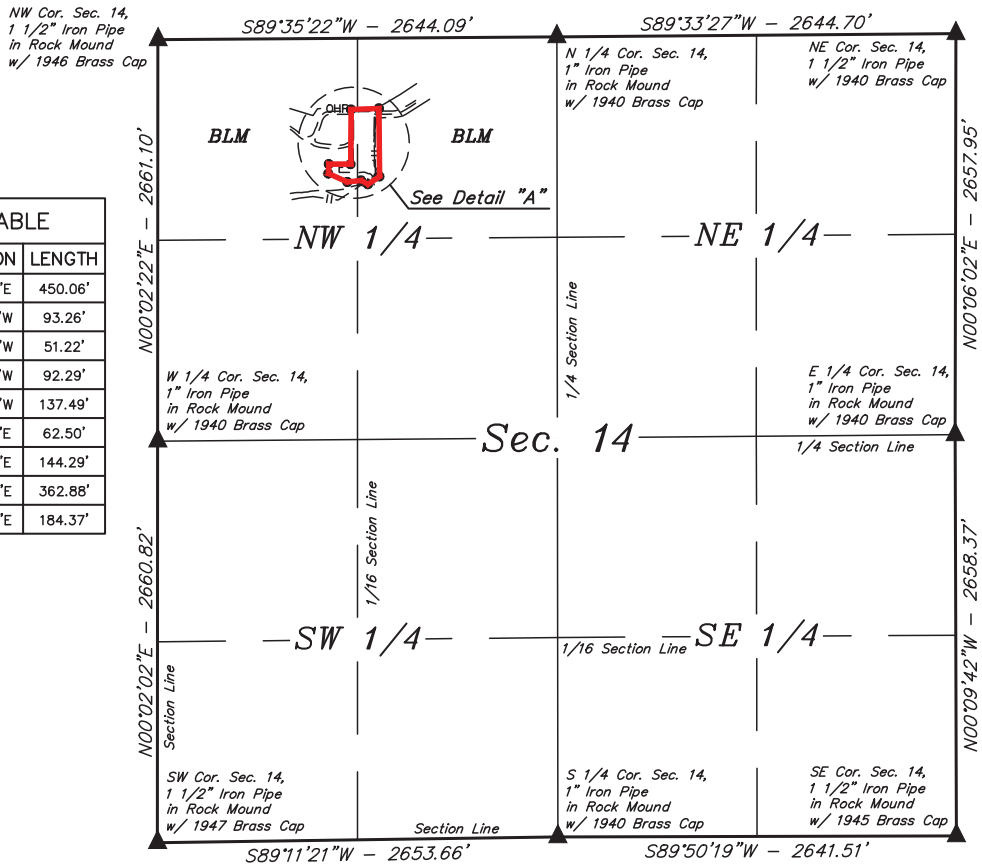
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 24,000

NEW ROAD MAP **EXHIBIT F**

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

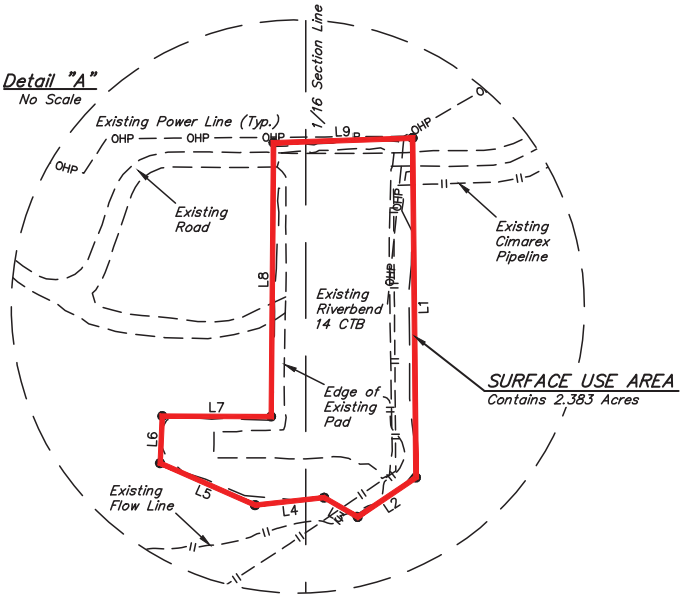


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

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





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

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

N

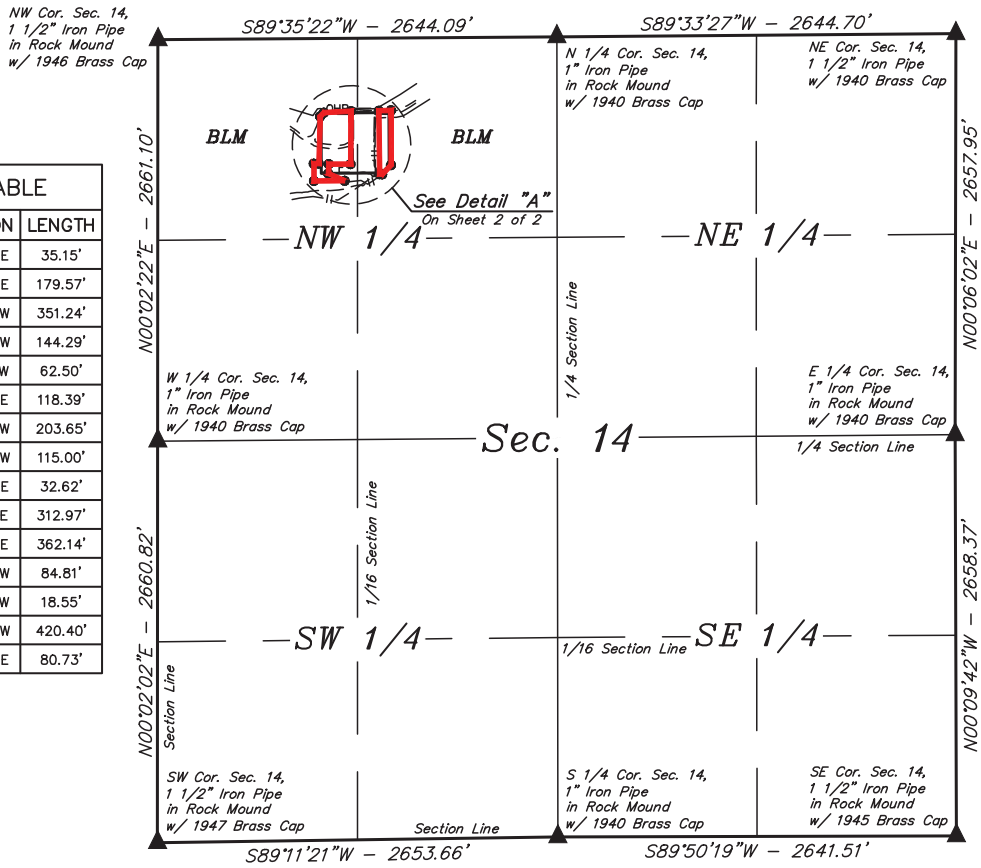
CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N44°40'42"E	35.15'
L2	N87°00'34"E	179.57'
L3	S00°29'04"W	351.24'
L4	N89°45'49"W	144.29'
L5	S02°41'43"W	62.50'
L6	S66°08'24"E	118.39'
L7	S89°35'22"W	203.65'
L8	N00°24'38"W	115.00'
L9	N89°35'22"E	32.62'
L10	N01°46'53"E	312.97'
L11	S00°04'00"E	362.14'
L12	S43°29'22"W	84.81'
L13	N85°13'30"W	18.55'
L14	N00°34'57"W	420.40'
L15	N88°45'35"E	80.73'

SURFACE USE AREA "A" DESCRIPTION

COMMENCING AT THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 14 BEARS N89°35'22"E 2644.09', THENCE S64°40'24"E 1189.56' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N44°40'42"E 35.15'; THENCE N87°00'34"E 179.57'; THENCE S00°29'04"W 351.24'; THENCE N89°45'49"W 144.29'; THENCE S02°41'43"W 62.50'; THENCE S66°08'24"E 118.39'; THENCE S89°35'22"W 203.65'; THENCE N00°24'38"W 115.00'; THENCE N89°35'22"E 32.62'; THENCE N01°46'53"E 312.97' TO THE POINT OF BEGINNING. CONTAINS 1.946 ACRES MORE OR LESS.

SURFACE USE AREA "B" DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S66°03'17"W 1203.08' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°04'00"E 362.14'; THENCE S43°29'22"W 84.81'; THENCE N85°13'30"W 18.55'; THENCE N00°34'57"W 420.40'; THENCE N88°45'35"E 80.73' TO THE POINT OF BEGINNING. CONTAINS 0.723 ACRES MORE OR LESS.

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

POINT OF BEGINNING "B" BEARS S66°03'17"W
1203.08' FROM THE NORTH 1/4 CORNER OF
SECTION 14, T25S, R28E, N.M.P.M.

SURFACE USE AREA "A" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	1.946

SURFACE USE AREA "B" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.723

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

CERTIFICATE

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 1 of 2

NOTES:

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

N

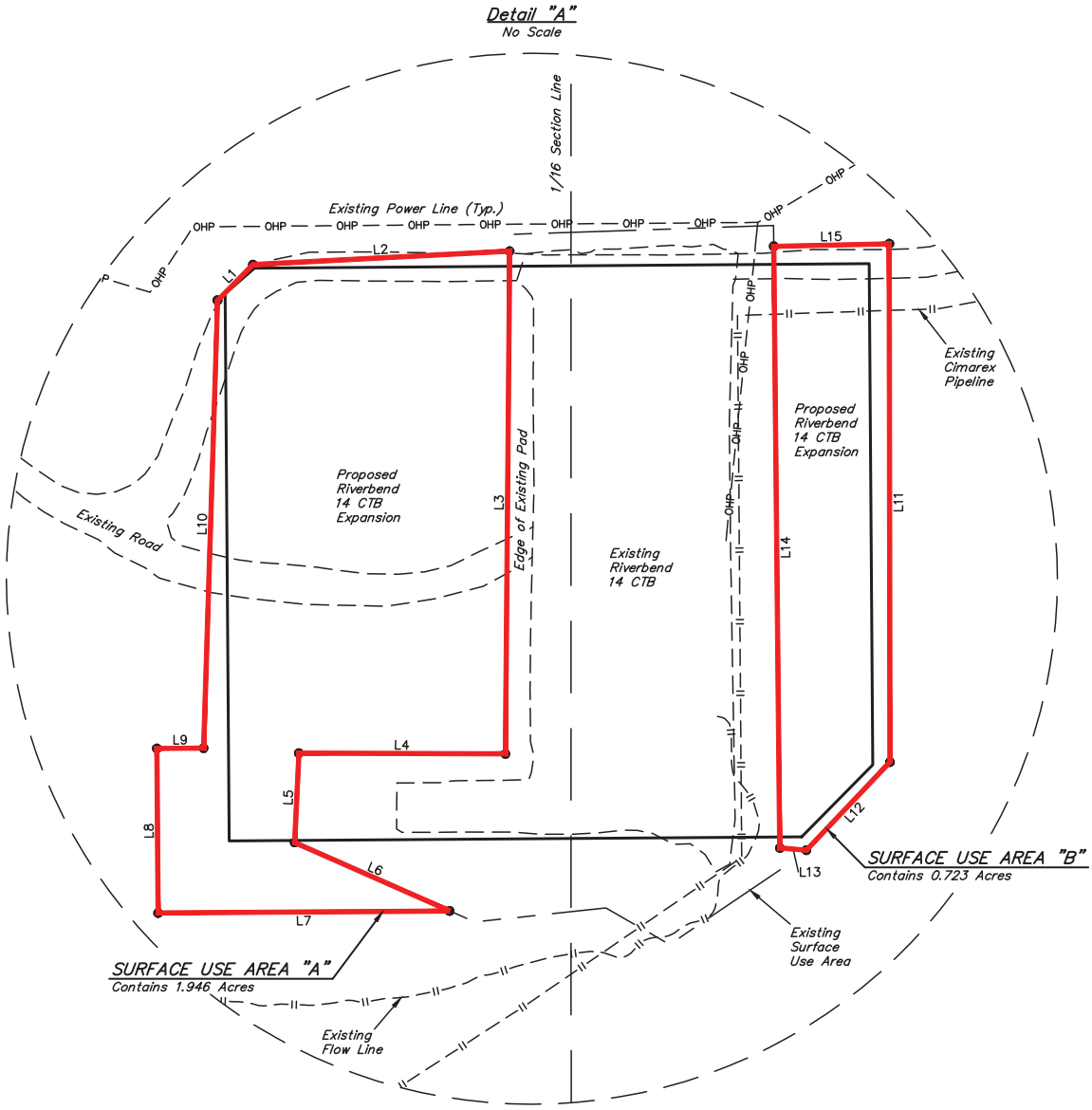
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A1		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

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



CERTIFICATE

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 2 of 2

NOTES:

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

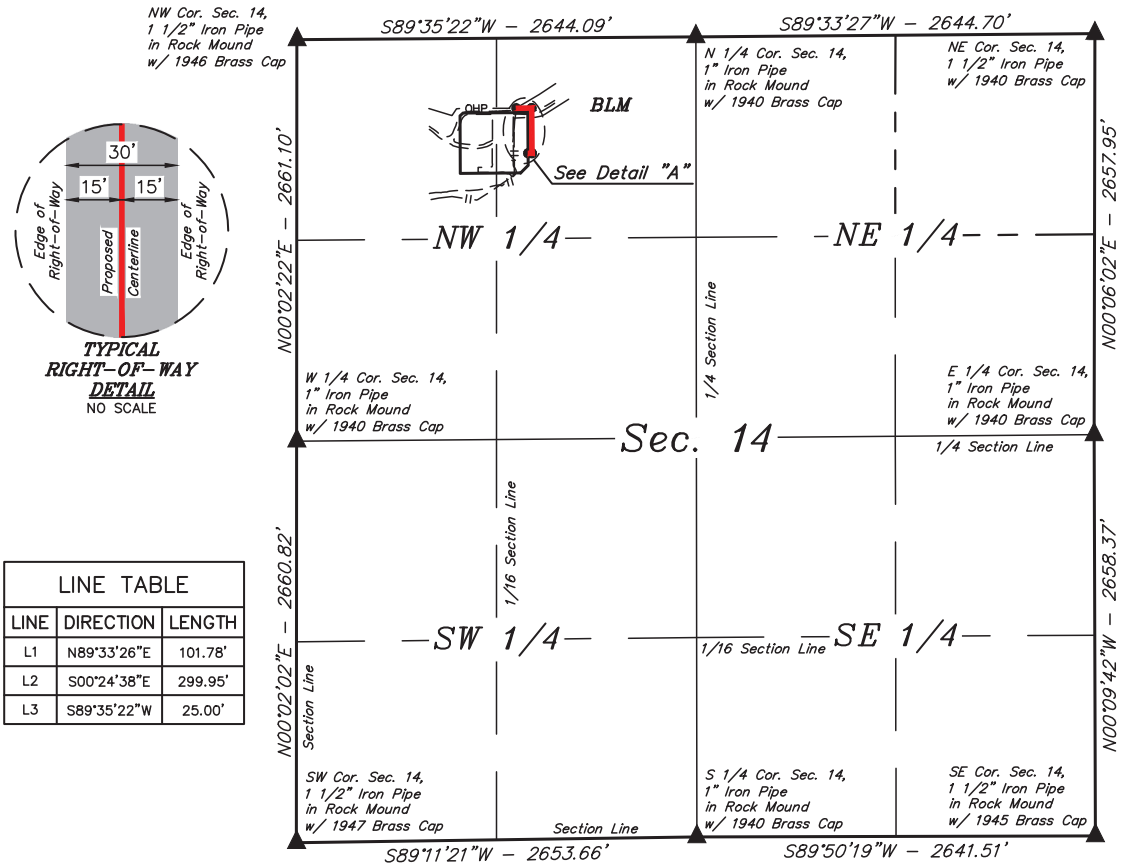
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CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		
EXPANSION SURFACE USE AREA			EXHIBIT F

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



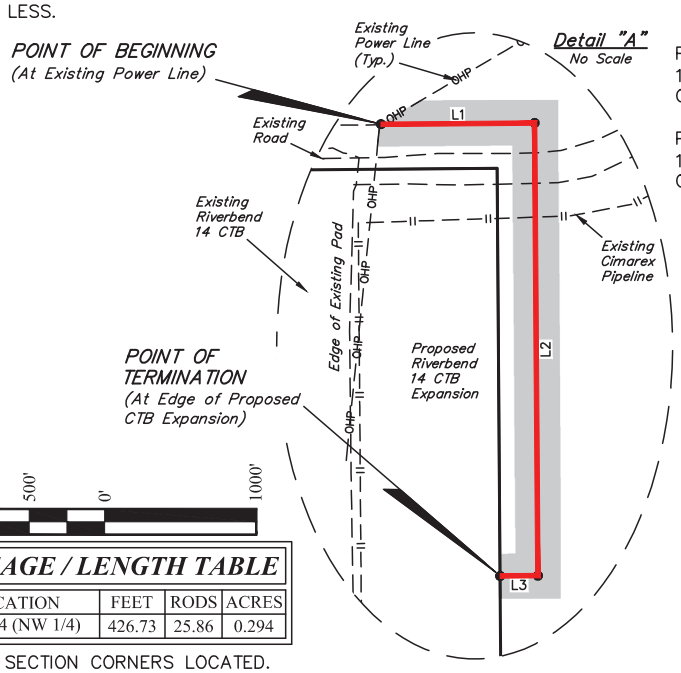
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

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

POWER LINE RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 299.95'; THENCE S89°35'22"W 25.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.294 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S68°20'04"W 1281.05' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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

▲ = SECTION CORNERS LOCATED.

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

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

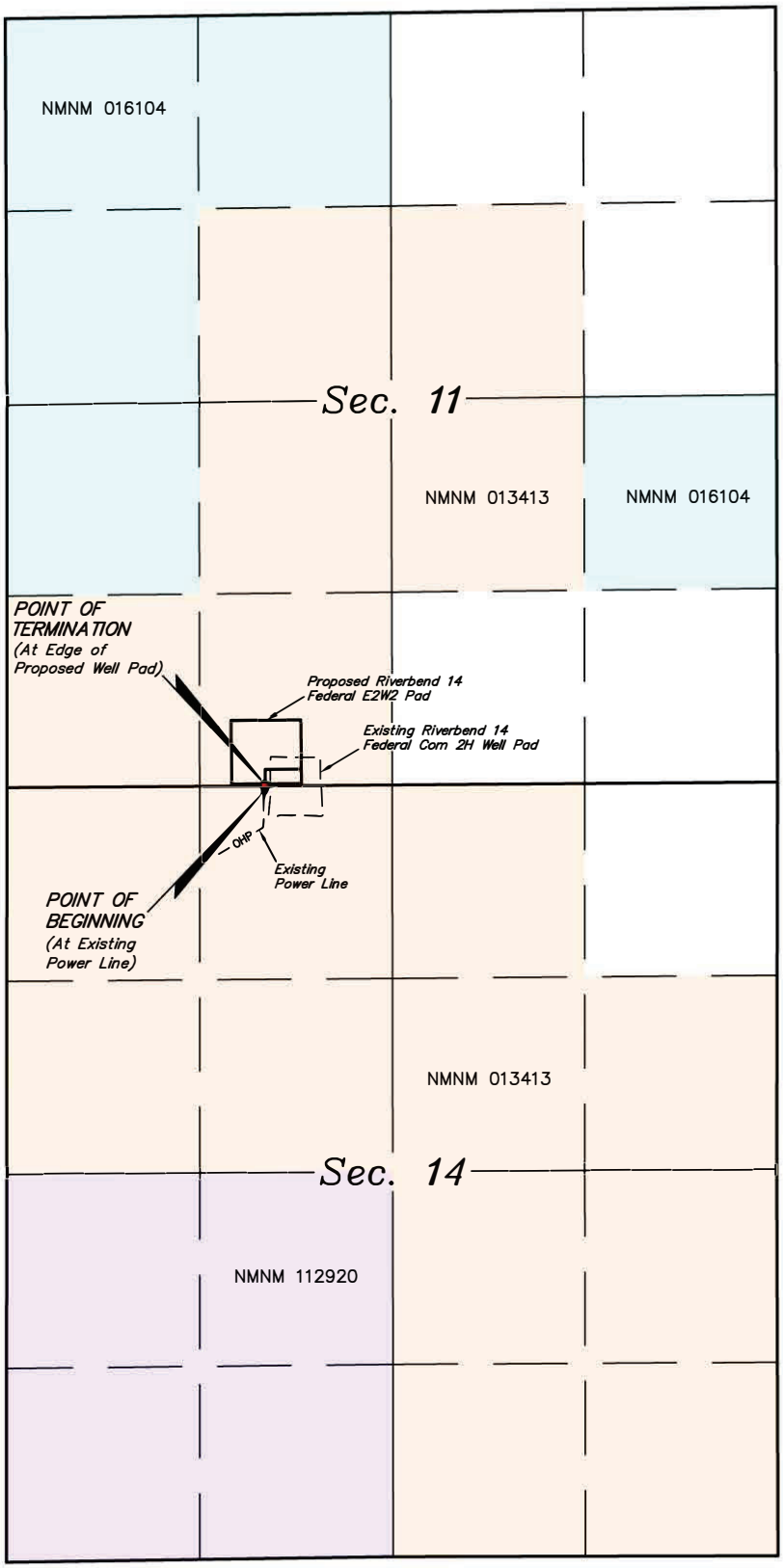
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

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

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



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

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

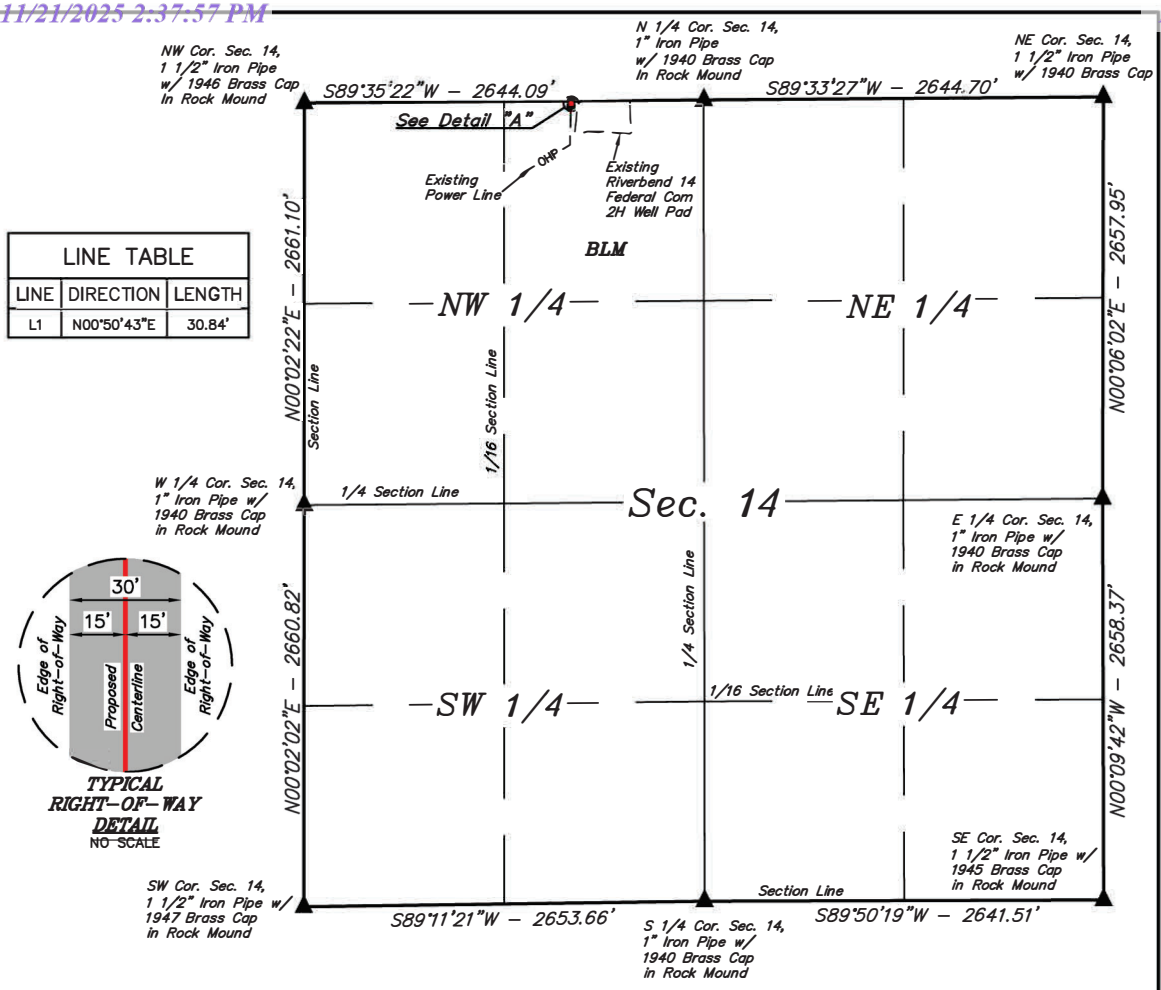
N

CIMAREX ENERGY CO.

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

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

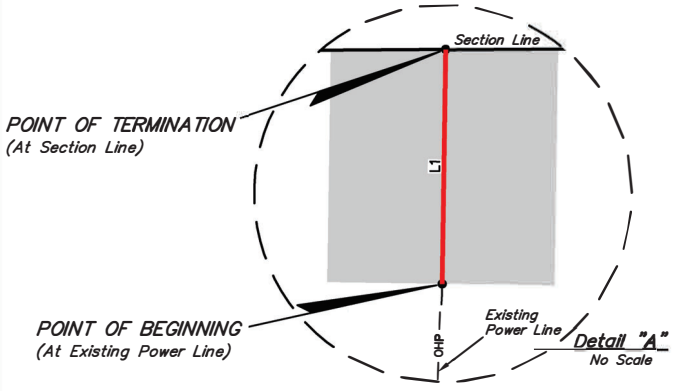
OVERALL POWER LINE



POWER LINE RIGHT-OF-WAY DESCRIPTION

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

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



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

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

CERTIFICATE

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
11-12-24

ACREAGE / LENGTH TABLE

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

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:

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

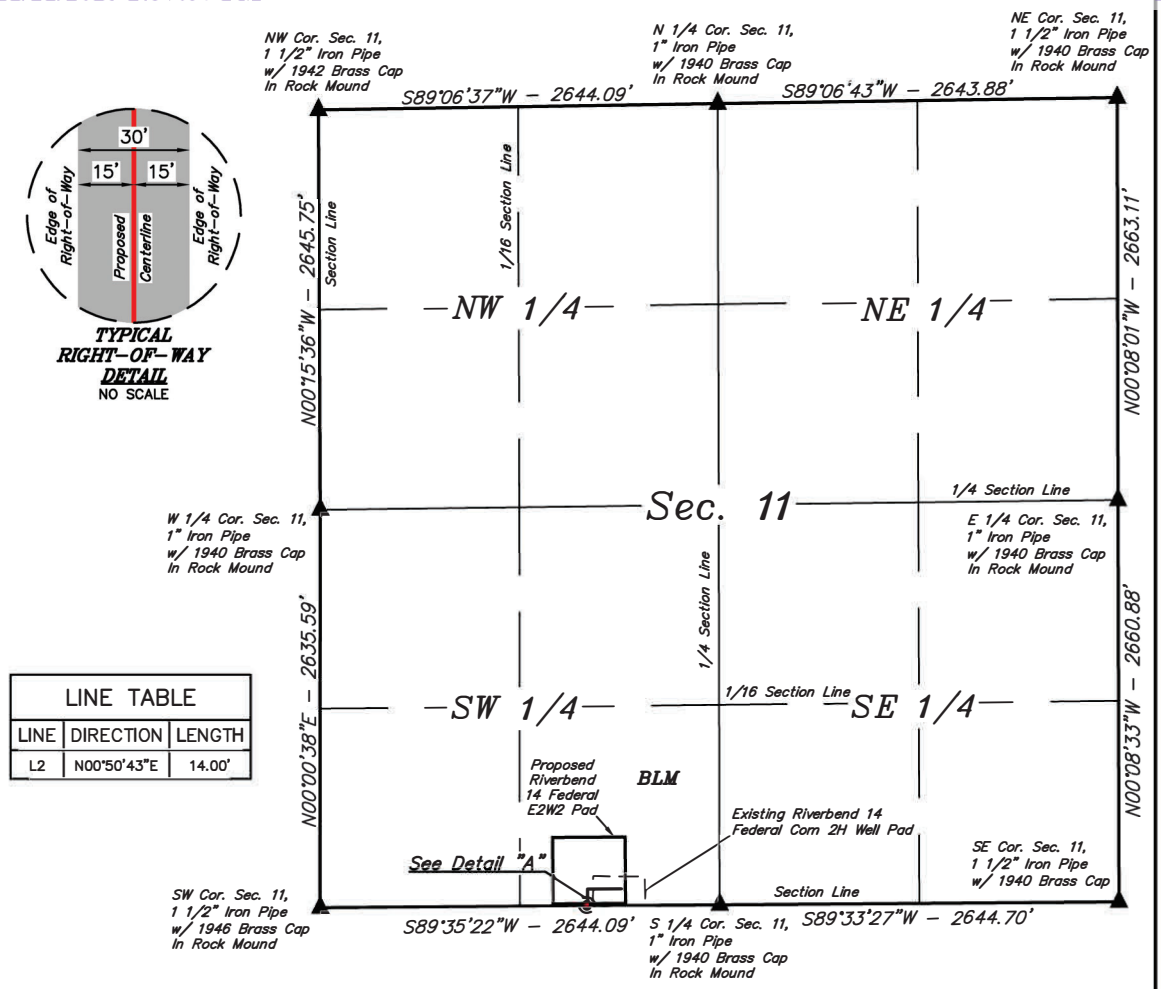
N

CIMAREX ENERGY CO.

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

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

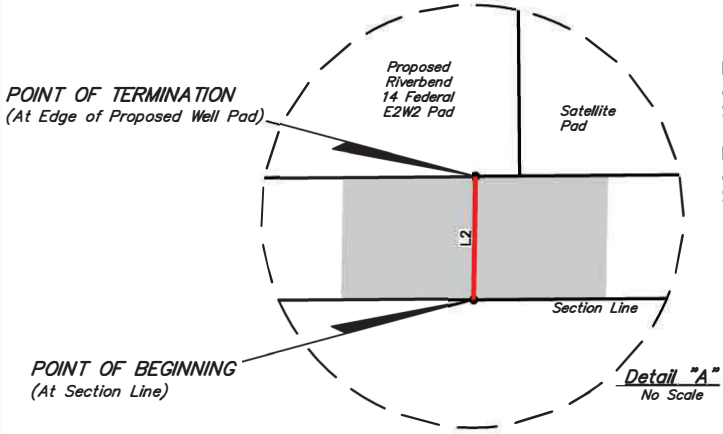
UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



POWER LINE RIGHT–OF–WAY DESCRIPTION

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

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 877.88' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 TO THE POINT OF BEGINNING; THENCE N00°50'43"E 14.00' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.010 ACRES MORE OR LESS.



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

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

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
11-12-24

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

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

Sheet 1 of 2

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

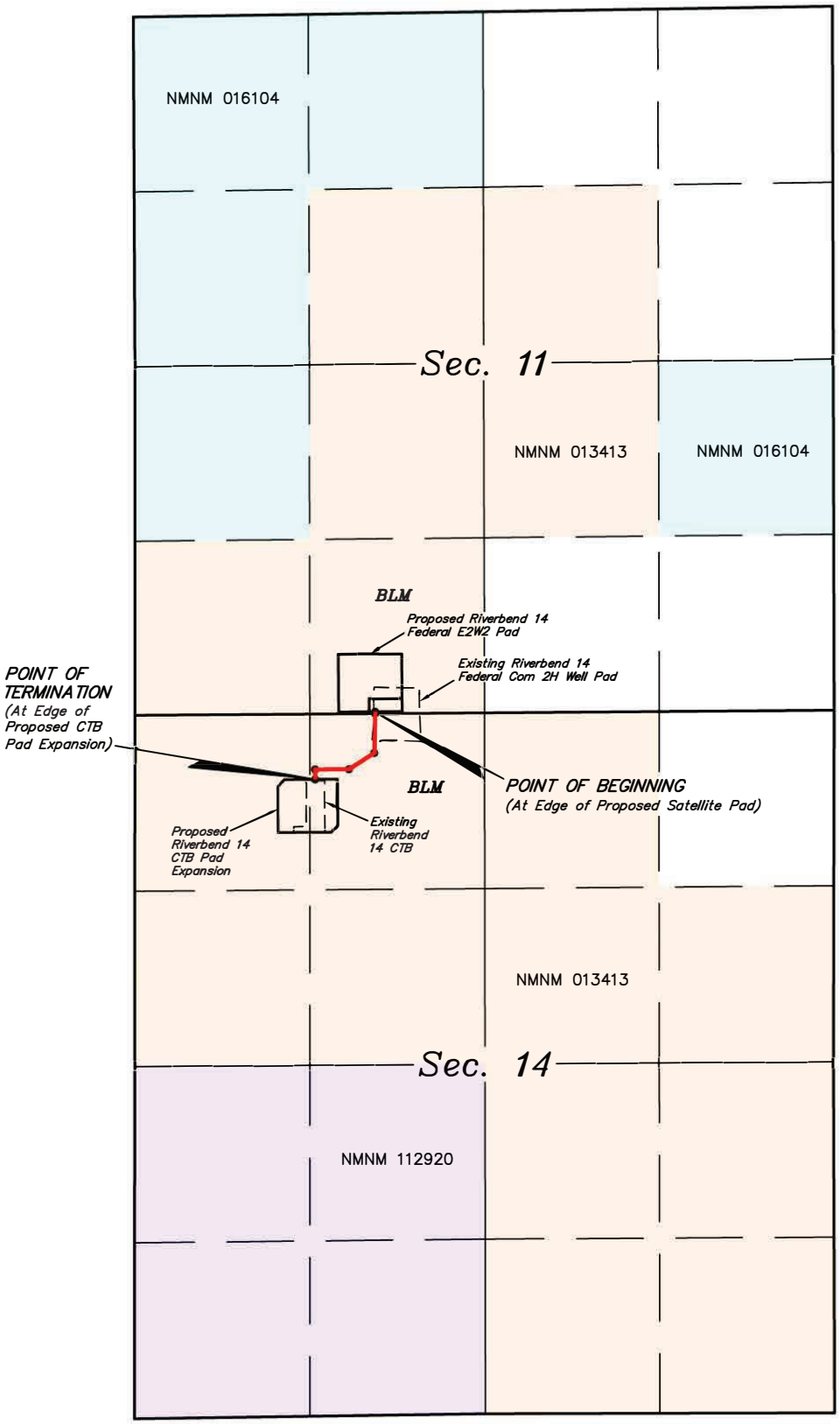
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CIMAREX ENERGY CO.

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

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



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

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

N

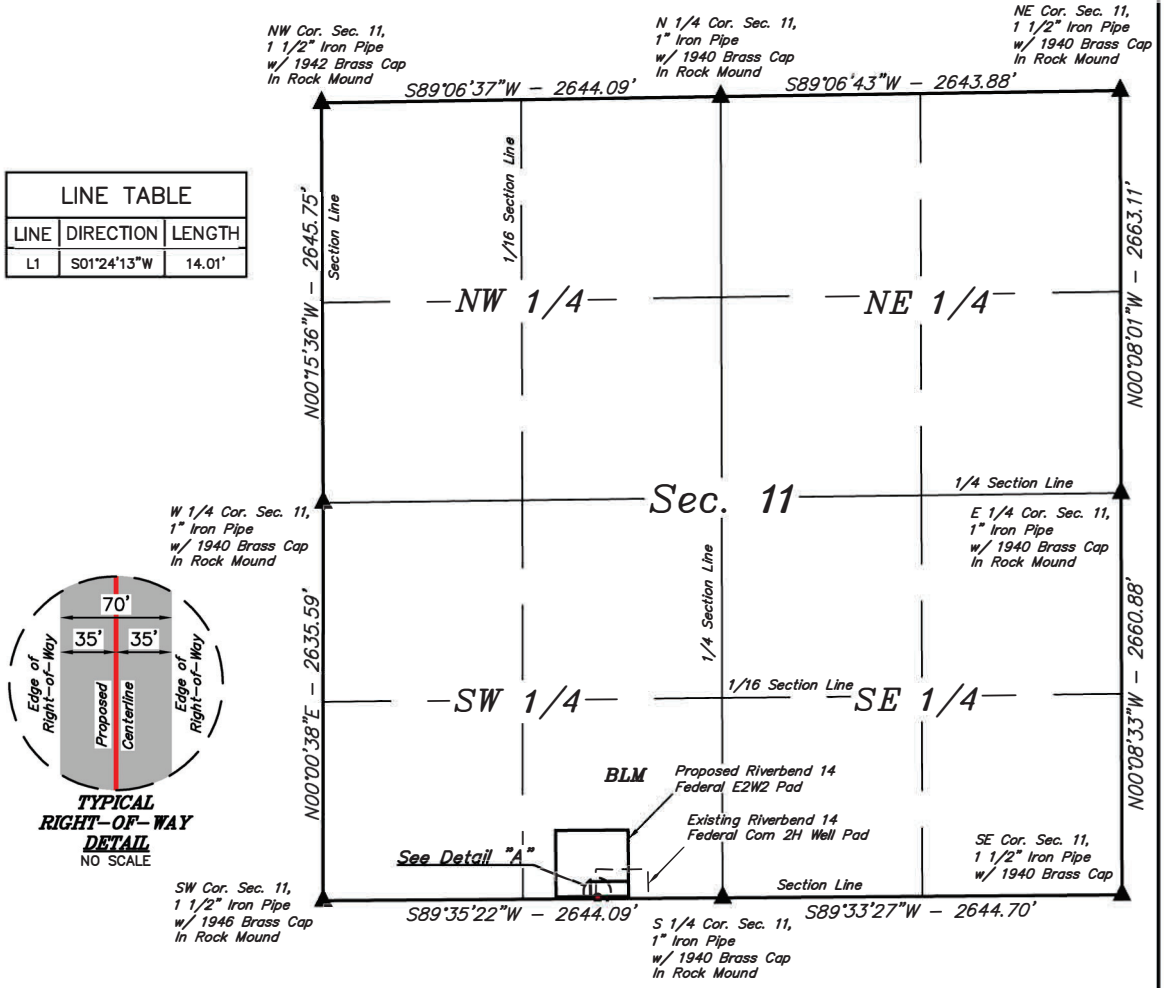
REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

CIMAREX ENERGY CO.

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

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

OVERALL BULK LINE



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

TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

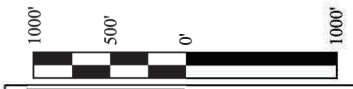
BULK LINE RIGHT-OF-WAY DESCRIPTION

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

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

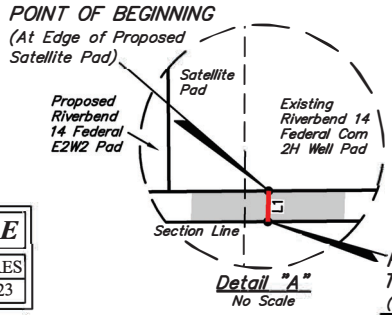
POINT OF BEGINNING BEARS N89°26'26"W 827.06' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

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

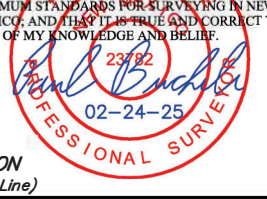


ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 11 (SW 1/4)	14.01	0.85	0.023

▲ = SECTION CORNERS LOCATED.



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

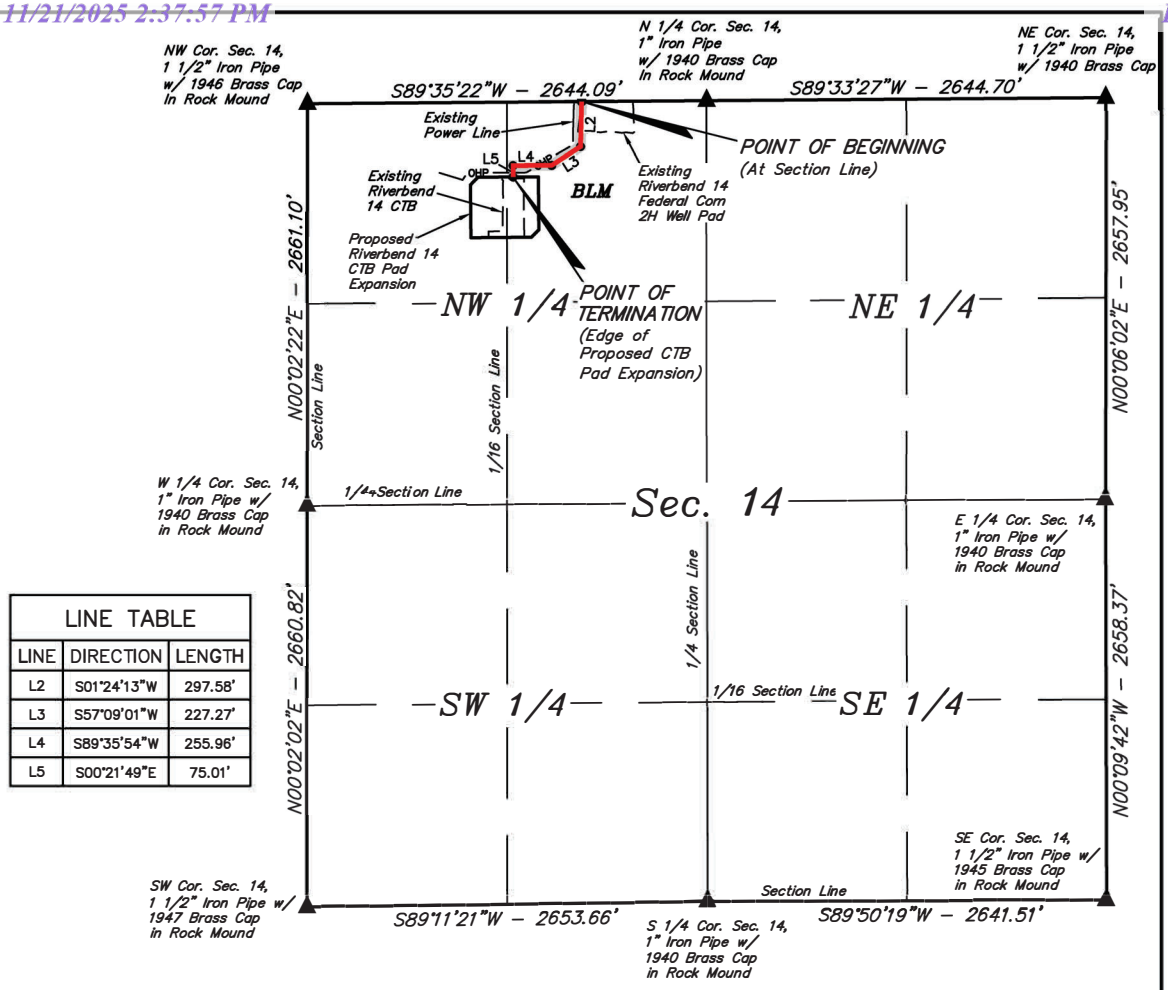
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

CIMAREX ENERGY CO.

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

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

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



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

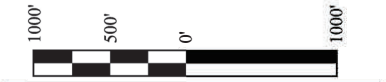
BULK LINE RIGHT–OF–WAY DESCRIPTION

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

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

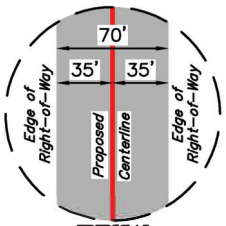
POINT OF BEGINNING BEARS S89°35'22"W 827.38' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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



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

▲ = SECTION CORNERS LOCATED.



TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

CERTIFICATE
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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
02–24–25

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

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

N

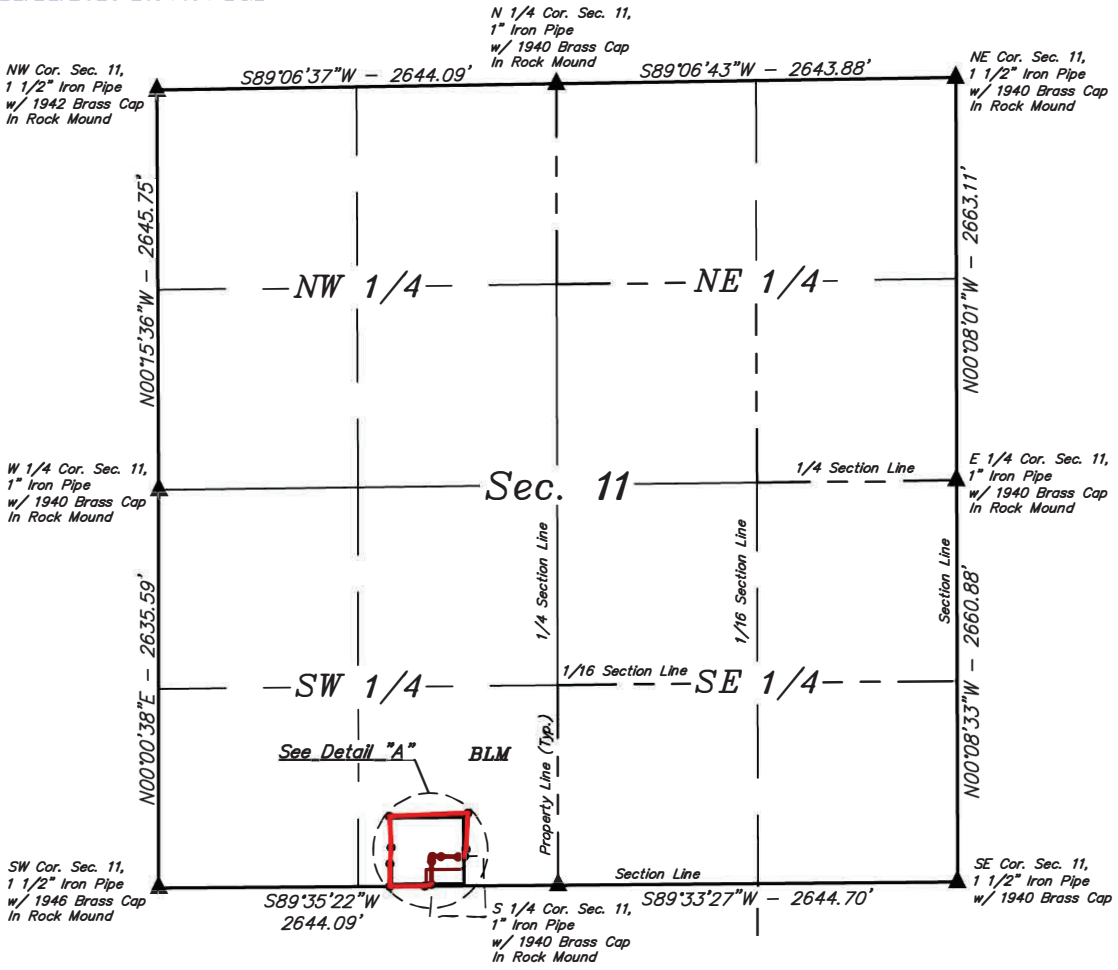
CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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



SURFACE USE AREA DESCRIPTION

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

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

1000' 500' 0' 1000'

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

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
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23782 PROFESSIONAL SURVEYOR 08-20-24

Sheet 1 of 2

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

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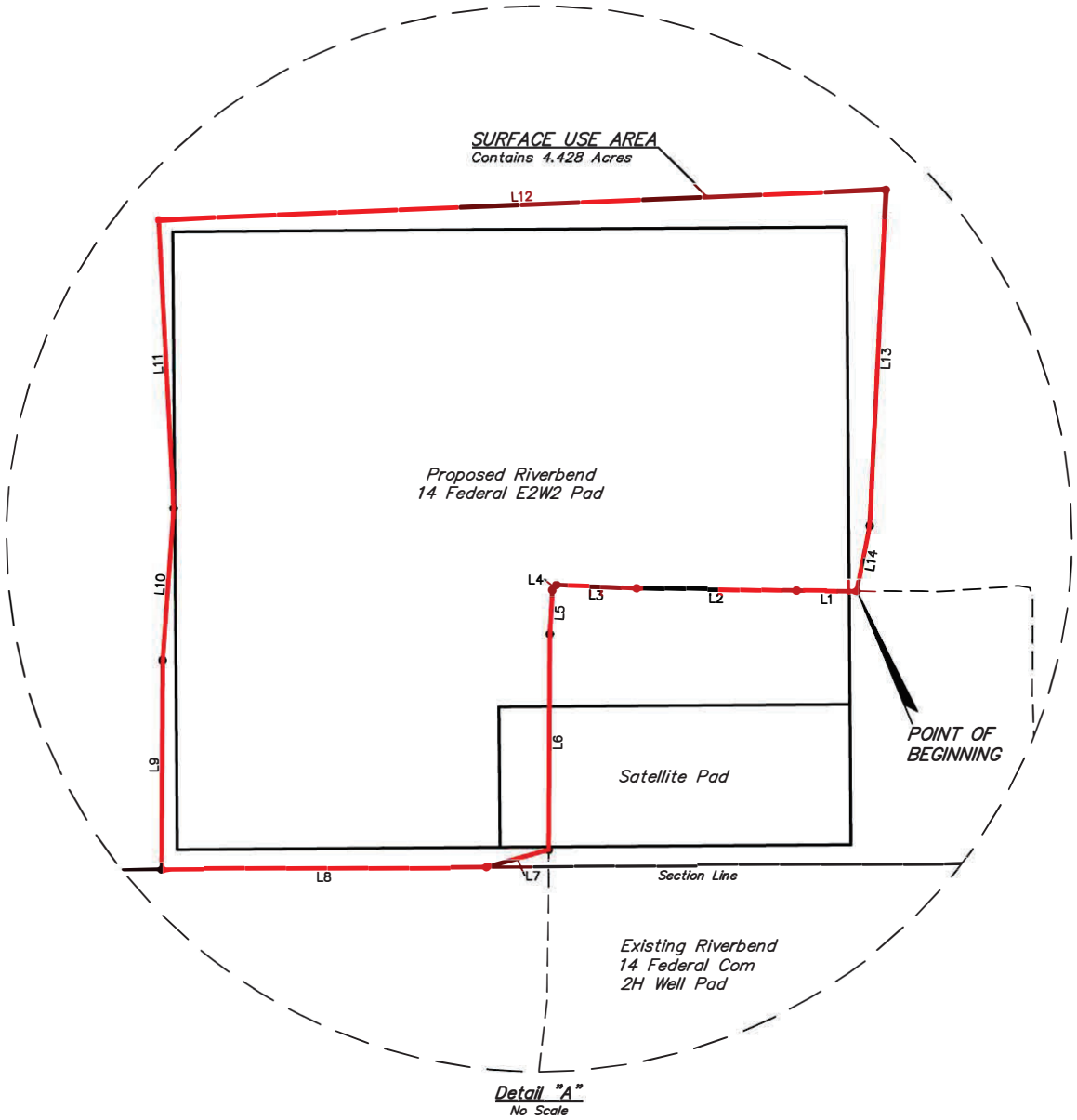
CIMAREX ENERGY CO.

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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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

Sheet 2 of 2

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

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CIMAREX ENERGY CO.

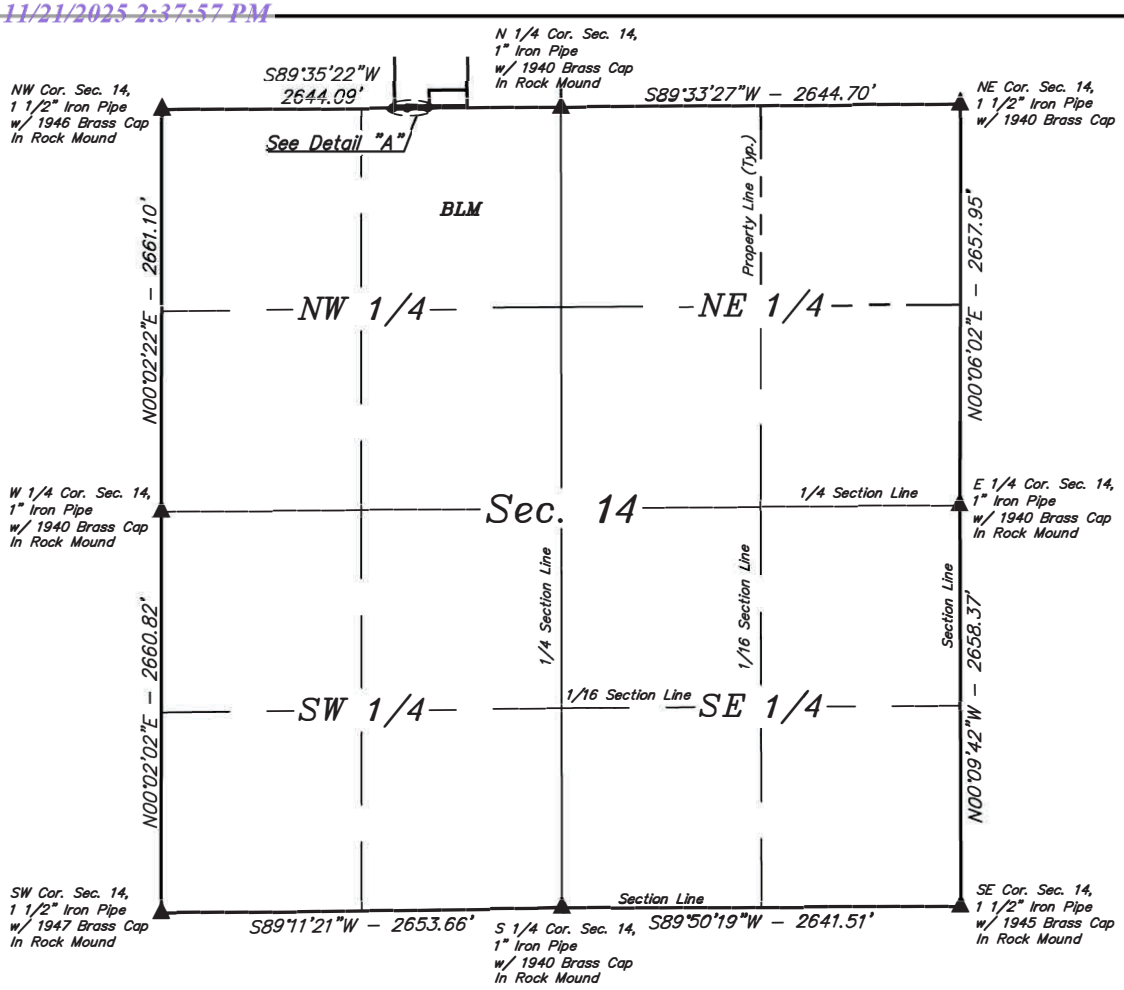
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

SURFACE USE AREA

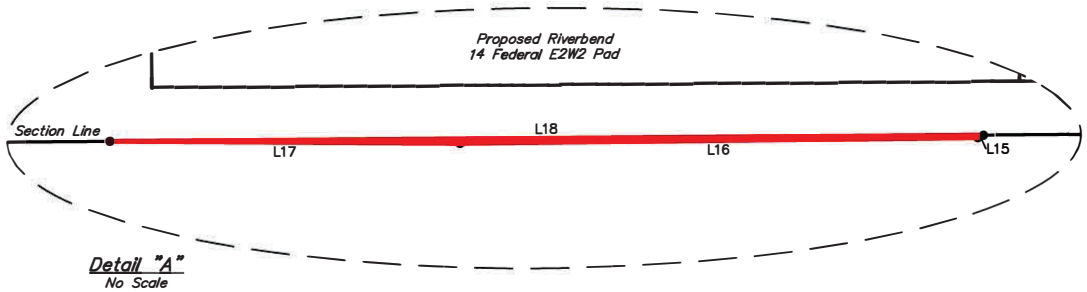
UINTAH ENGINEERING & LAND SURVEYING

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



SURFACE USE AREA DESCRIPTION

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



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

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.004

▲ = SECTION CORNERS LOCATED.

LINE TABLE		
LINE	DIRECTION	LENGTH
L15	S66°42'17"W	1.80'
L16	S89°22'43"W	137.12'
L17	N89°40'05"W	92.84'
L18	N89°35'22"E	231.61'

CERTIFICATE
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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 1000'
FILE	C-7853-B		

SURFACE USE AREA

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

RIVERBEND 14 FEDERAL COM 1H 264' FSL 1,880' FWL	RIVERBEND 14 FEDERAL COM 3H 264' FSL 1,860' FWL
RIVERBEND 14 FEDERAL COM 8H 264' FSL 1,840' FWL	RIVERBEND 14 FEDERAL COM 4H 264' FSL 1,800' FWL
RIVERBEND 14 FEDERAL COM 7H 264' FSL 1,820' FWL	

CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

"A" "B" "C" "D"

5 F-4.3' El. 33.9'

6 F-8.4' El. 29.8'

7 F-12.3' El. 25.9'

Alternate Egress

Approximate Topsoil Fill Area

F-2.5' El. 35.7'

4H 7H 8H 3H 1H

F-3.7' El. 34.5'

4 F-0.1' El. 38.1'

Approx. Center of Pad (NAD 83)
Lat: 32°08'16.95"
Long: -104°03'38.71"

8 F-7.1' El. 31.1'

C-0.3' El. 38.5'

SHL SHL SHL

F-0.5' El. 37.7'

9 C-0.2' El. 38.4'

3 C-5.7' El. 43.9'

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Approx. Top of Cut Slope

Satellite Pad

1 10

2 C-1.0' El. 39.2'

Section Line

Section 11

Section 14

Existing Anchor

Existing Power Pole (Typ.)

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Power Line

Existing Edge of Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

FINISHED GRADE ELEVATION = 2,938'

NOTE: Earthwork Calculations Require a Fill @ some Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

UINTAH ENGINEERING & LAND SURVEYING

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Vernal, UT 84078 * (435) 789-1017

CIMAREX ENERGY CO.

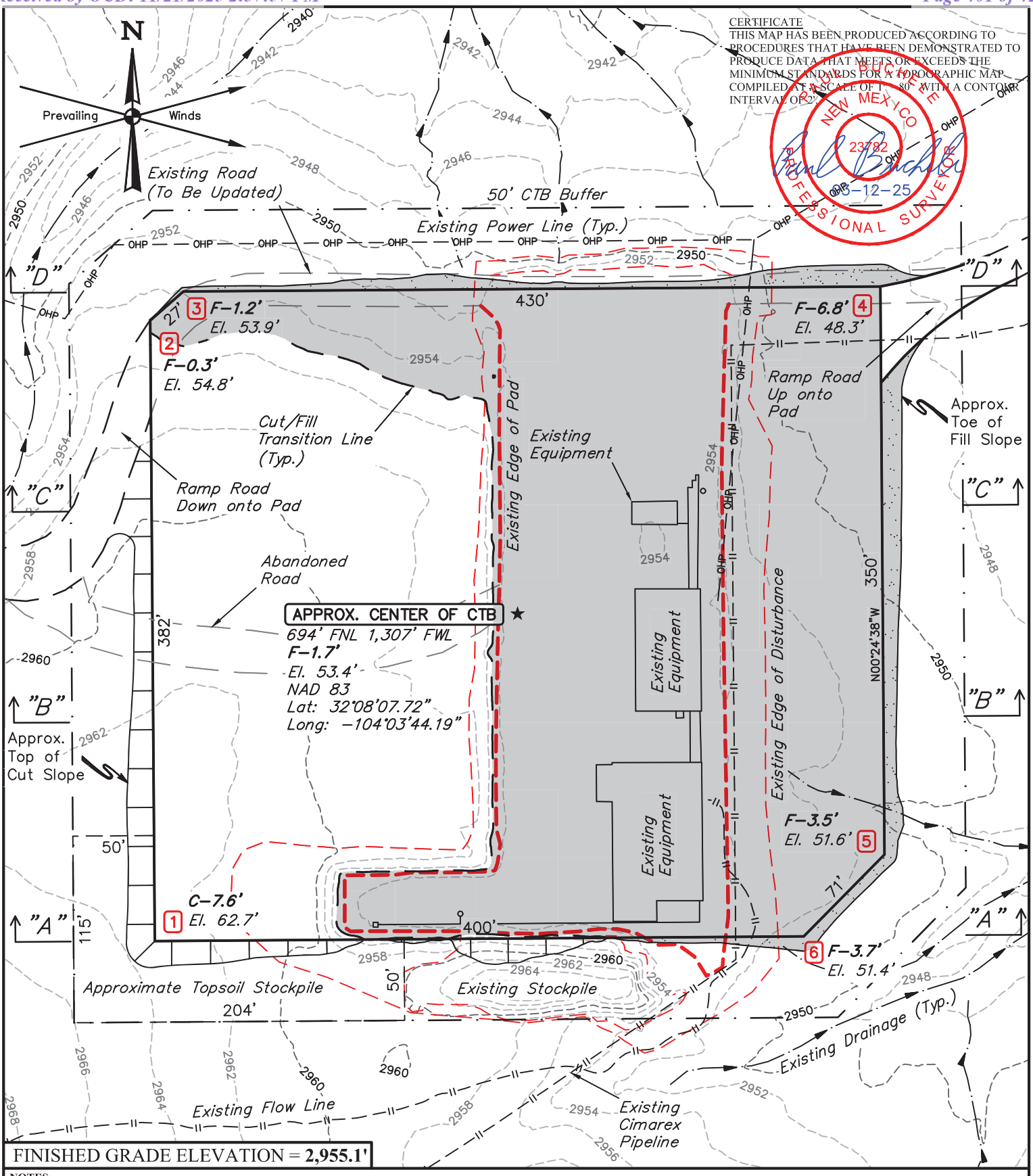
RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'
LOCATION LAYOUT			EXHIBIT J

CIMAREX ENERGY CO.
RIVERBEND 14 CTB
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DATE:	DESCRIPTION:
3/19/2025	FINAL PLAT PACKAGE

UINTAH
ENGINEERING & LAND SURVEYING



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BUCKNER NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

FINISHED GRADE ELEVATION = **2,955.1'**

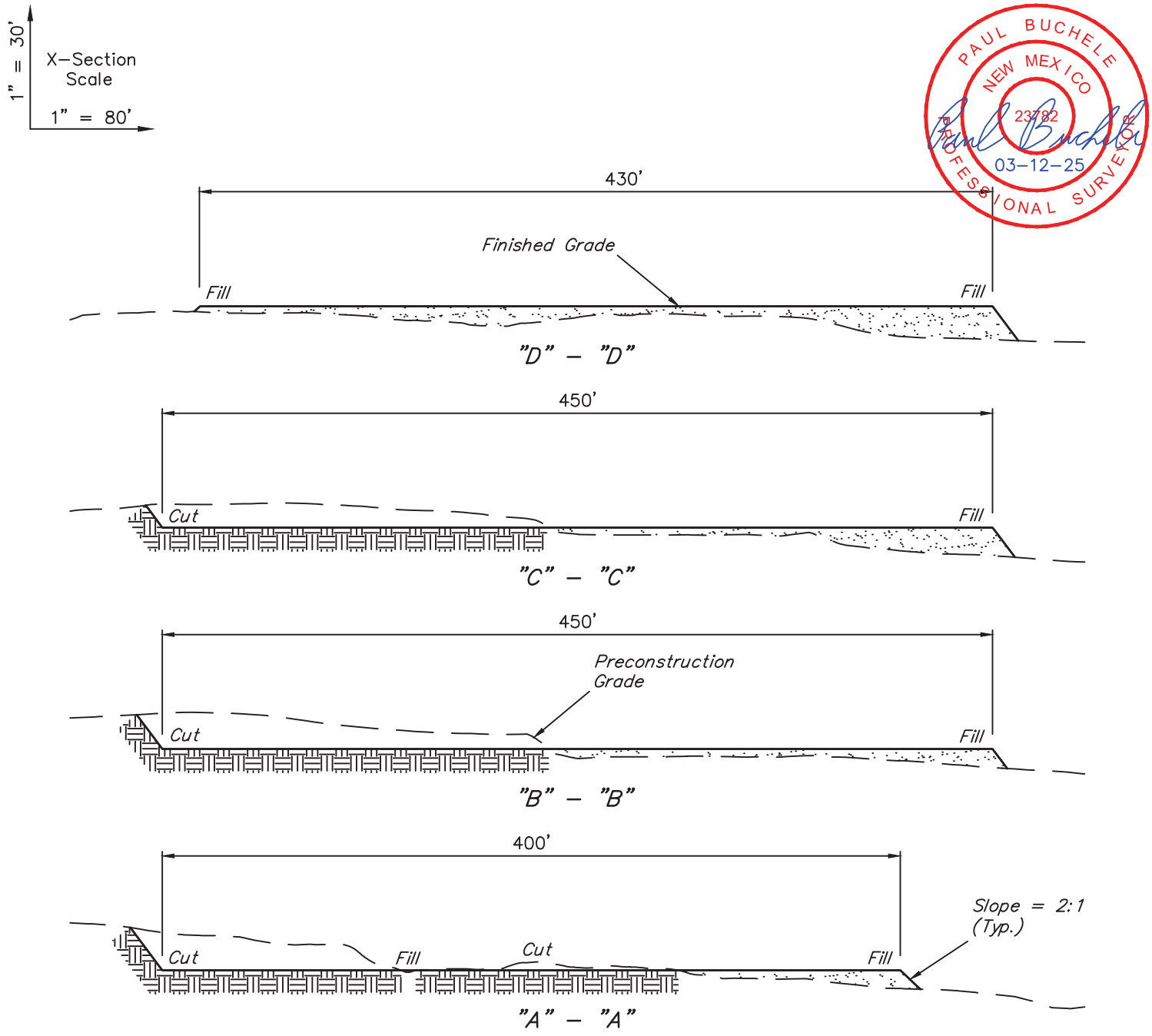
NOTES:
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ. except where noted)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

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**



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:

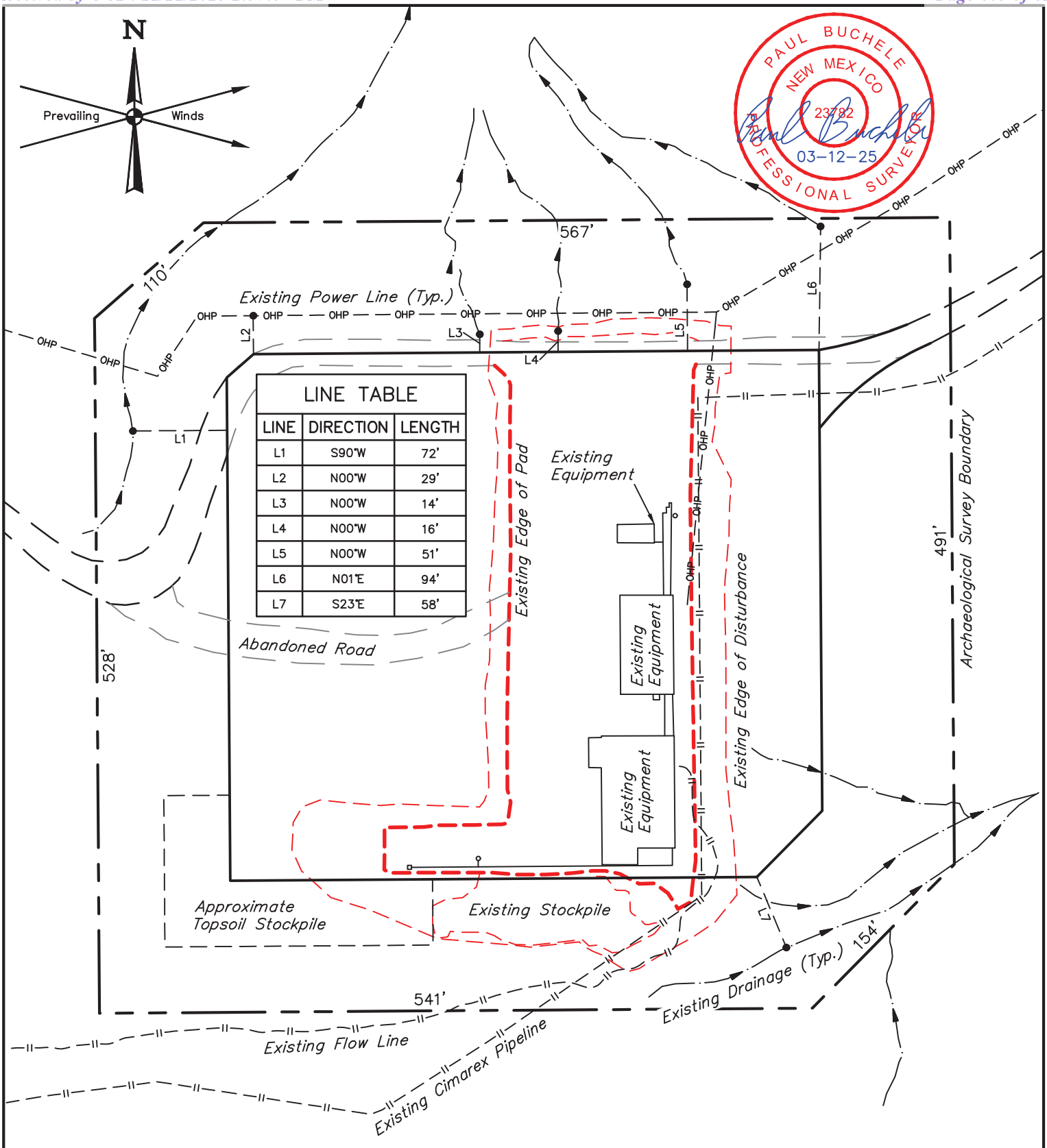
- Fill quantity includes 5% for compaction.

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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UELS, LLC
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Vernal, UT 84078 * (435) 789-1017



NOTES:

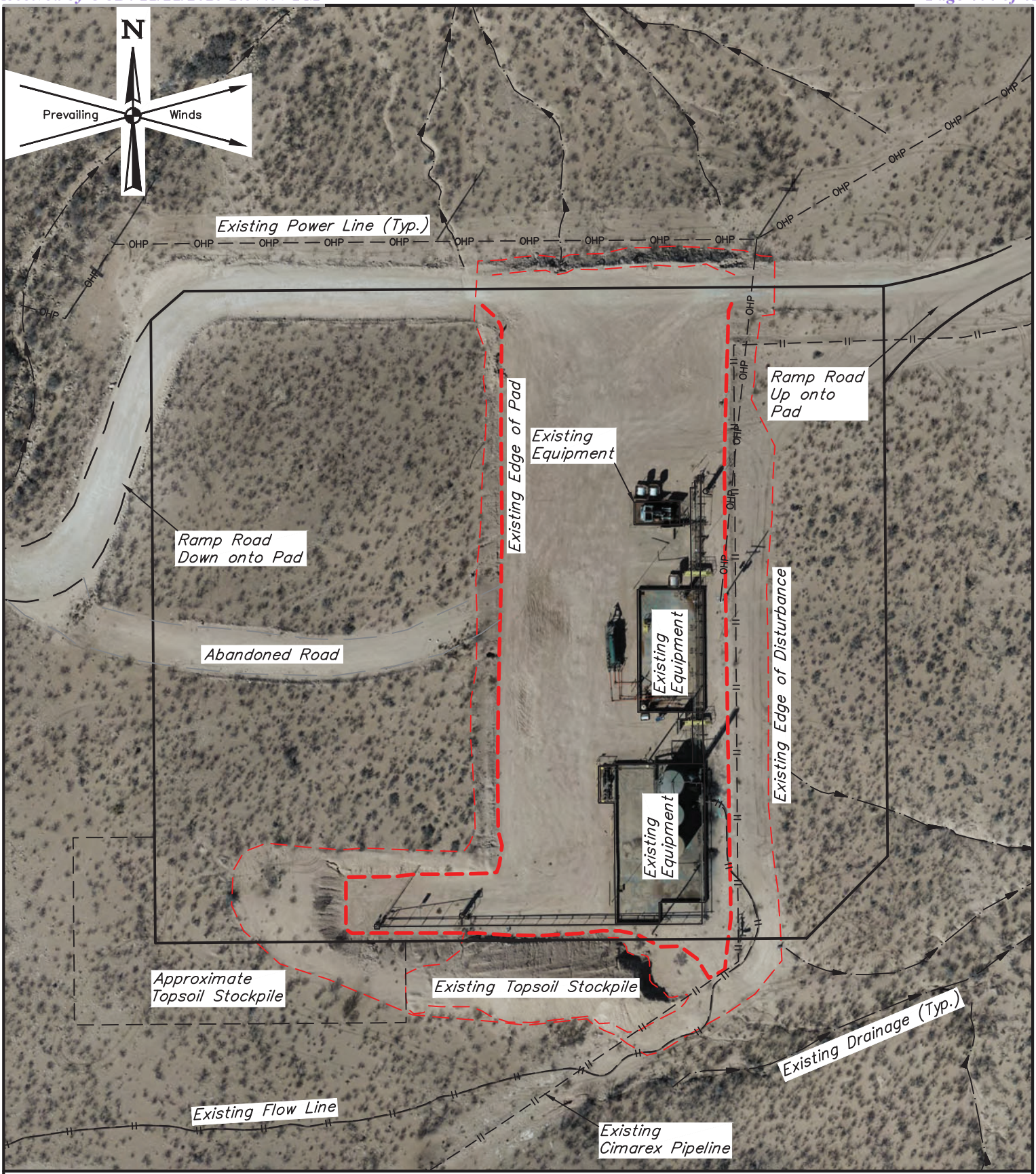
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 80'
AERIAL SITE PLAN			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING
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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.

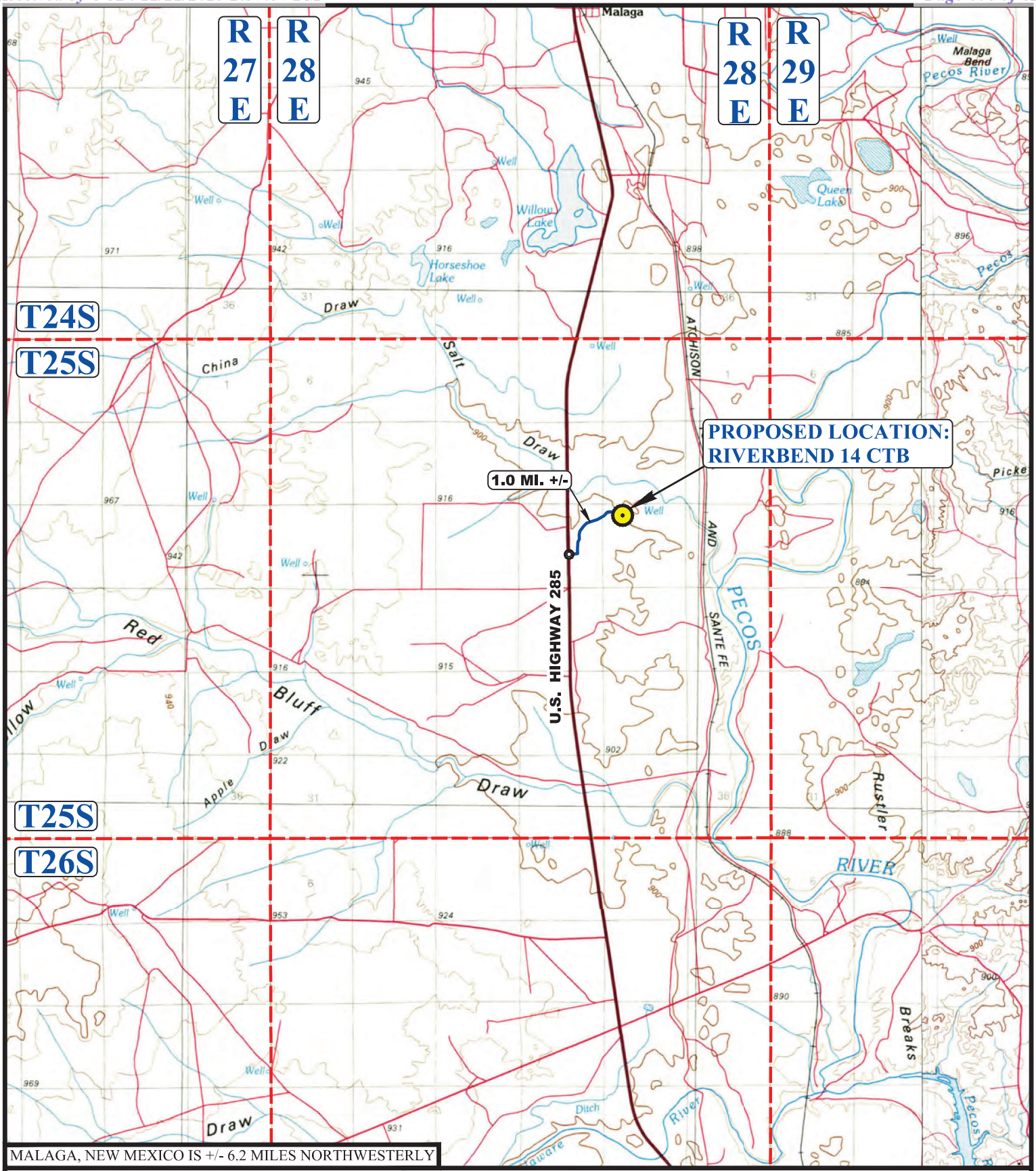
CIMAREX ENERGY CO.

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**

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Vernal, UT 84078 * (435) 789-1017



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

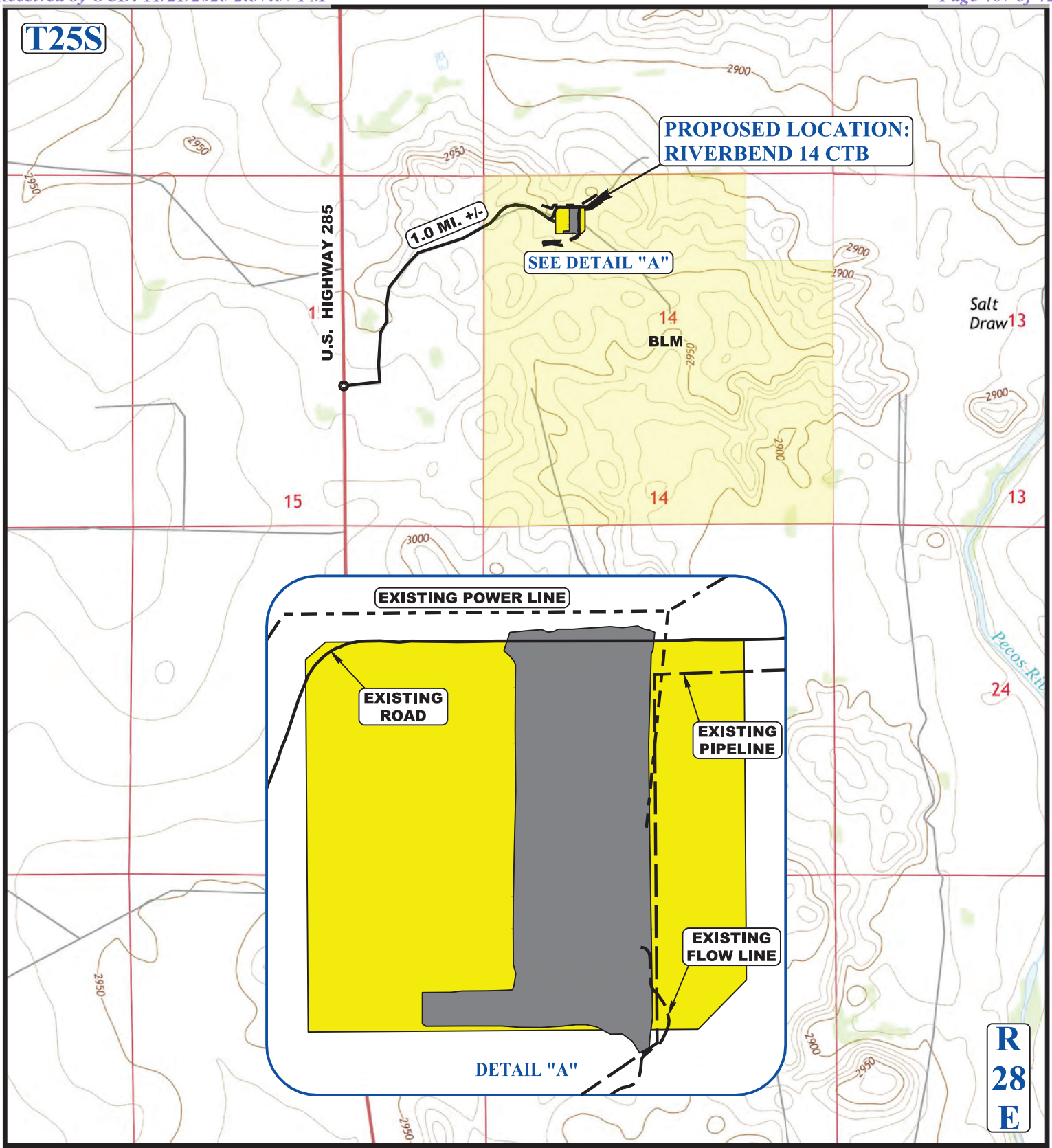
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP | **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
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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

N

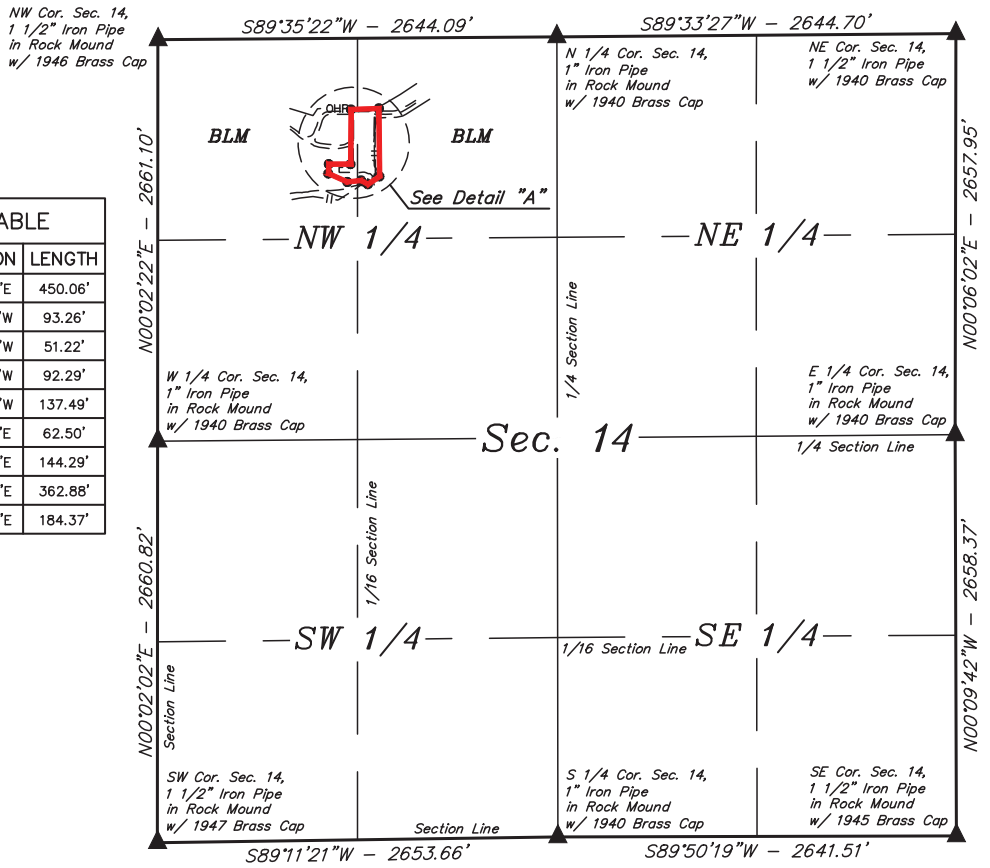
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 24,000

NEW ROAD MAP **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

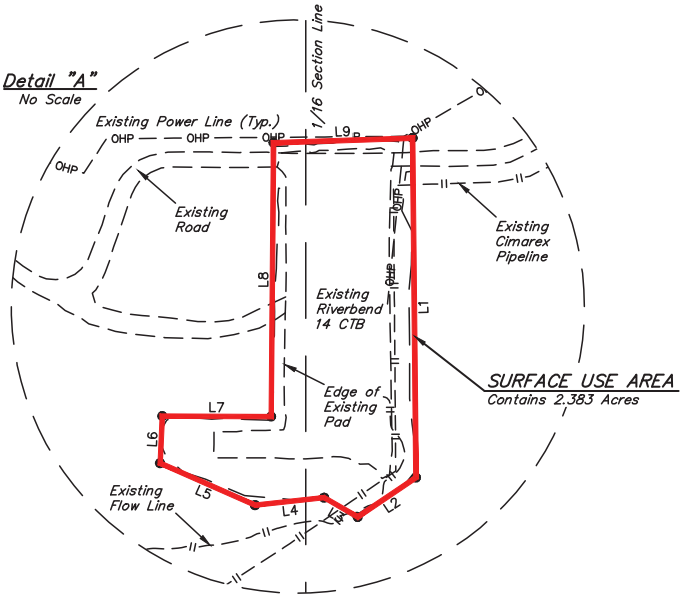


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS S68°03'17"W 1272.60' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

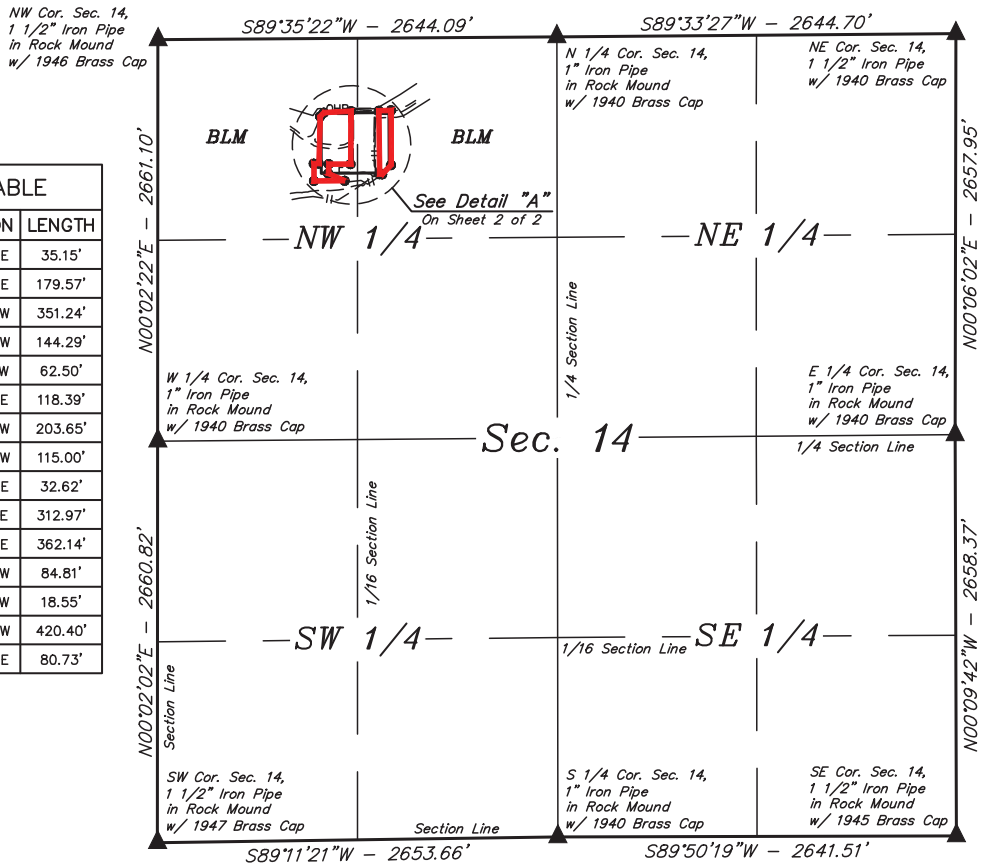
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		
EXISTING SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N44°40'42"E	35.15'
L2	N87°00'34"E	179.57'
L3	S00°29'04"W	351.24'
L4	N89°45'49"W	144.29'
L5	S02°41'43"W	62.50'
L6	S66°08'24"E	118.39'
L7	S89°35'22"W	203.65'
L8	N00°24'38"W	115.00'
L9	N89°35'22"E	32.62'
L10	N01°46'53"E	312.97'
L11	S00°04'00"E	362.14'
L12	S43°29'22"W	84.81'
L13	N85°13'30"W	18.55'
L14	N00°34'57"W	420.40'
L15	N88°45'35"E	80.73'

SURFACE USE AREA "A" DESCRIPTION

COMMENCING AT THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 14 BEARS N89°35'22"E 2644.09', THENCE S64°40'24"E 1189.56' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N44°40'42"E 35.15'; THENCE N87°00'34"E 179.57'; THENCE S00°29'04"W 351.24'; THENCE N89°45'49"W 144.29'; THENCE S02°41'43"W 62.50'; THENCE S66°08'24"E 118.39'; THENCE S89°35'22"W 203.65'; THENCE N00°24'38"W 115.00'; THENCE N89°35'22"E 32.62'; THENCE N01°46'53"E 312.97' TO THE POINT OF BEGINNING. CONTAINS 1.946 ACRES MORE OR LESS.

SURFACE USE AREA "B" DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S66°03'17"W 1203.08' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°04'00"E 362.14'; THENCE S43°29'22"W 84.81'; THENCE N85°13'30"W 18.55'; THENCE N00°34'57"W 420.40'; THENCE N88°45'35"E 80.73' TO THE POINT OF BEGINNING. CONTAINS 0.723 ACRES MORE OR LESS.

POINT OF BEGINNING "A" BEARS S64°40'24"E
1189.56' FROM THE NORTHWEST CORNER OF
SECTION 14, T25S, R28E, N.M.P.M.

POINT OF BEGINNING "B" BEARS S66°03'17"W
1203.08' FROM THE NORTH 1/4 CORNER OF
SECTION 14, T25S, R28E, N.M.P.M.

SURFACE USE AREA "A" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	1.946

SURFACE USE AREA "B" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.723

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 1 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

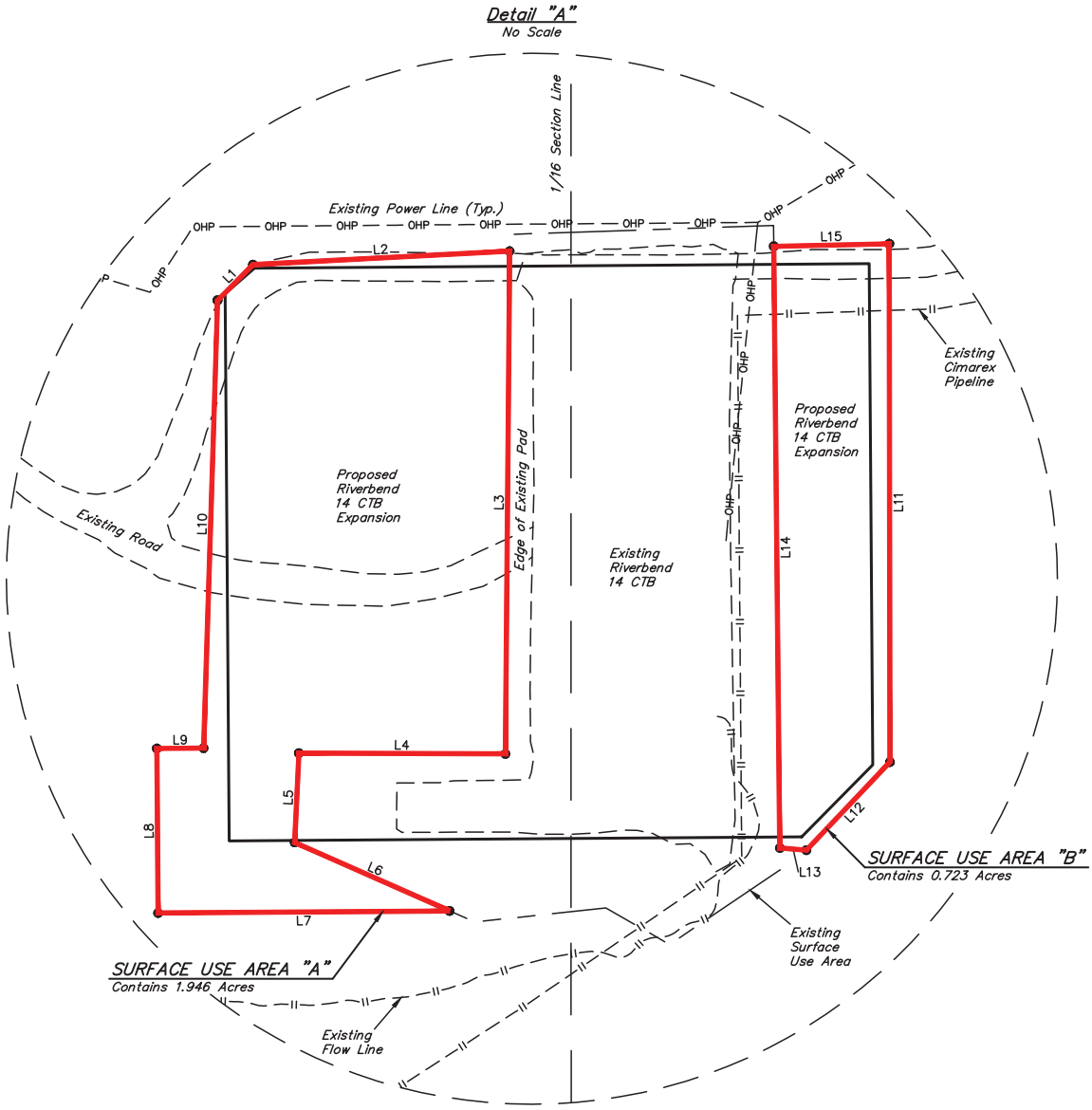
CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A1		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CERTIFICATE

THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 2 of 2

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

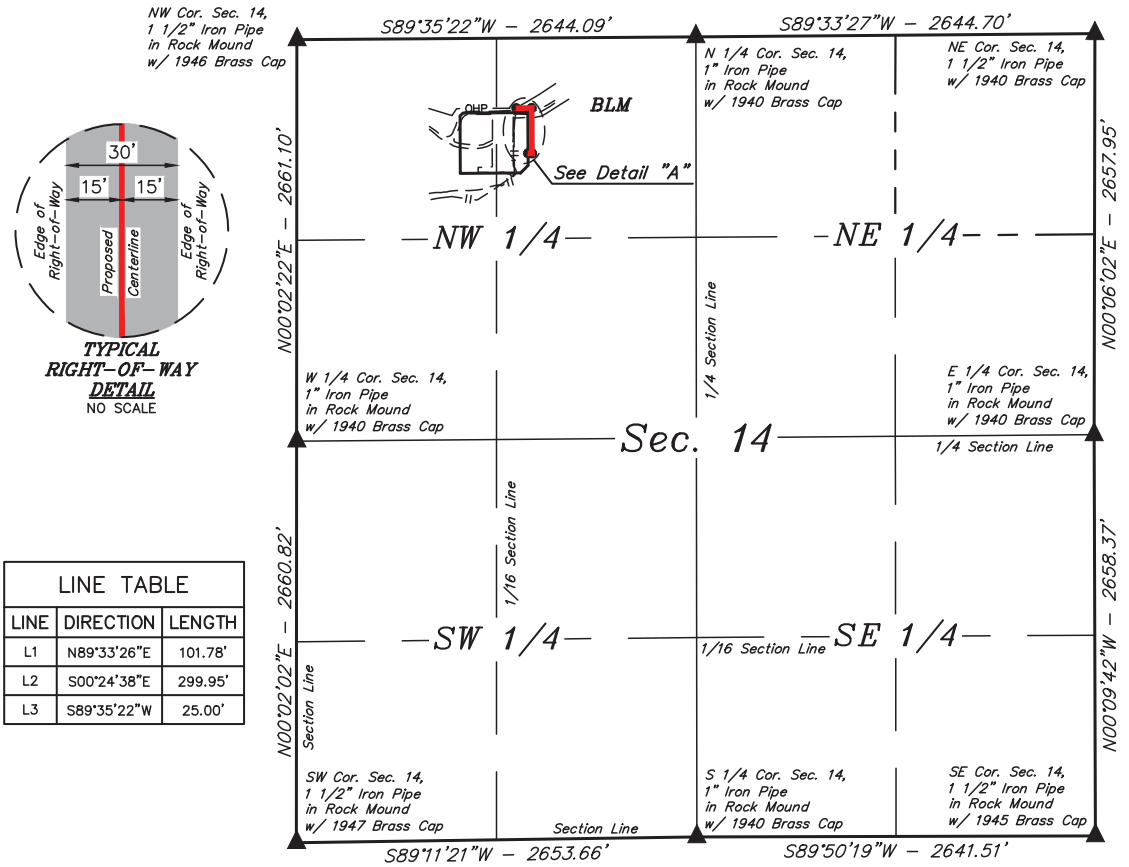
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CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		
EXPANSION SURFACE USE AREA			EXHIBIT F

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



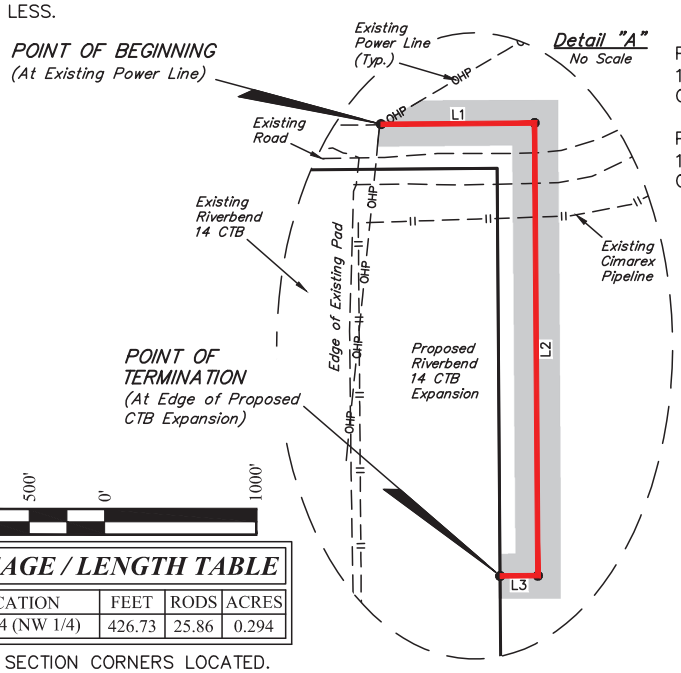
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°33'26"E	101.78'
L2	S00°24'38"E	299.95'
L3	S89°35'22"W	25.00'

POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 299.95'; THENCE S89°35'22"W 25.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.294 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S68°20'04"W 1281.05' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	426.73	25.86	0.294

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

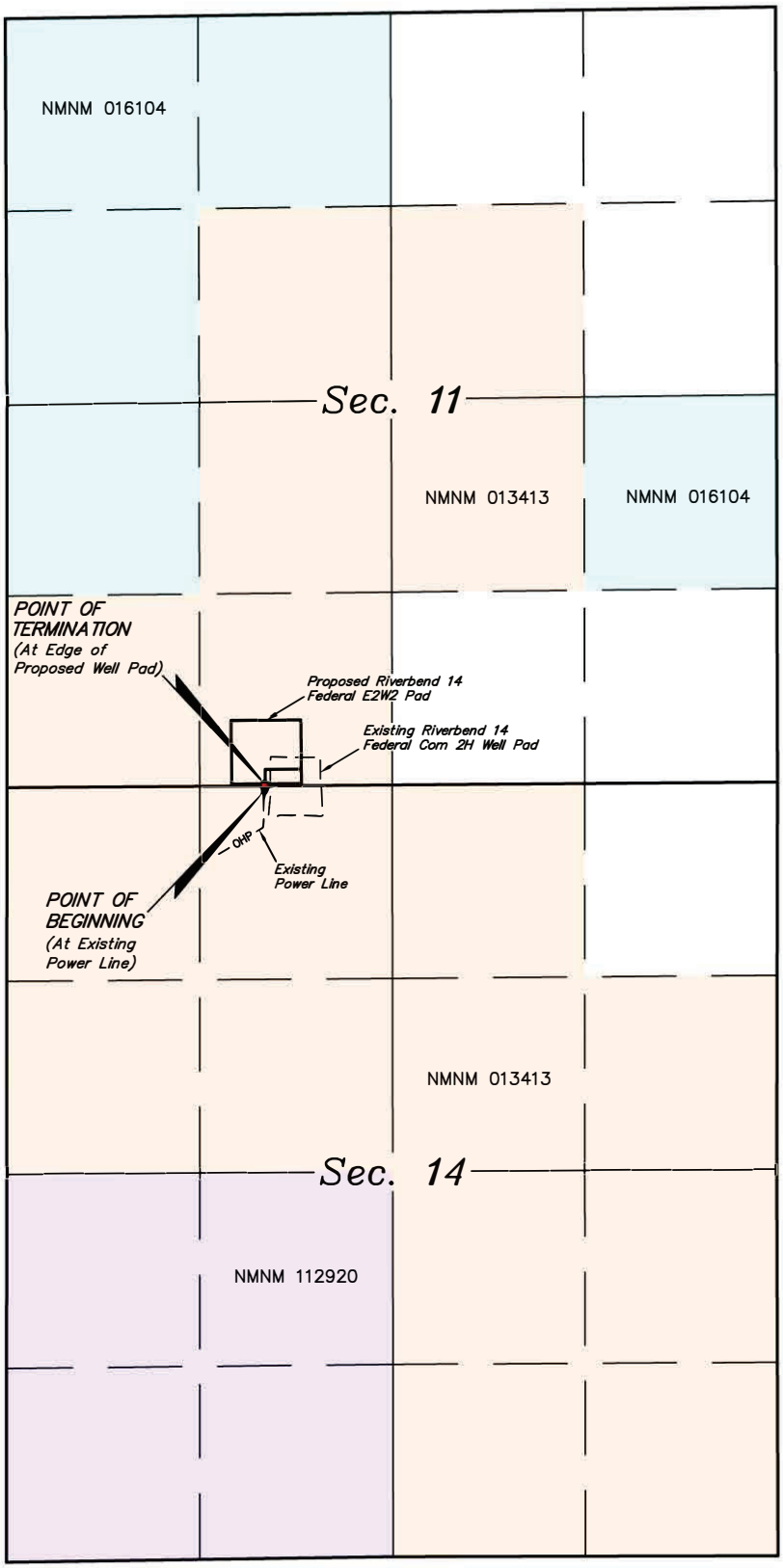
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

CIMAREX ENERGY CO.

RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A		
POWER LINE R-O-W			EXHIBIT F

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE:
- Colored areas within section lines represent Federal oil & gas leases.

LEGEND:
- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

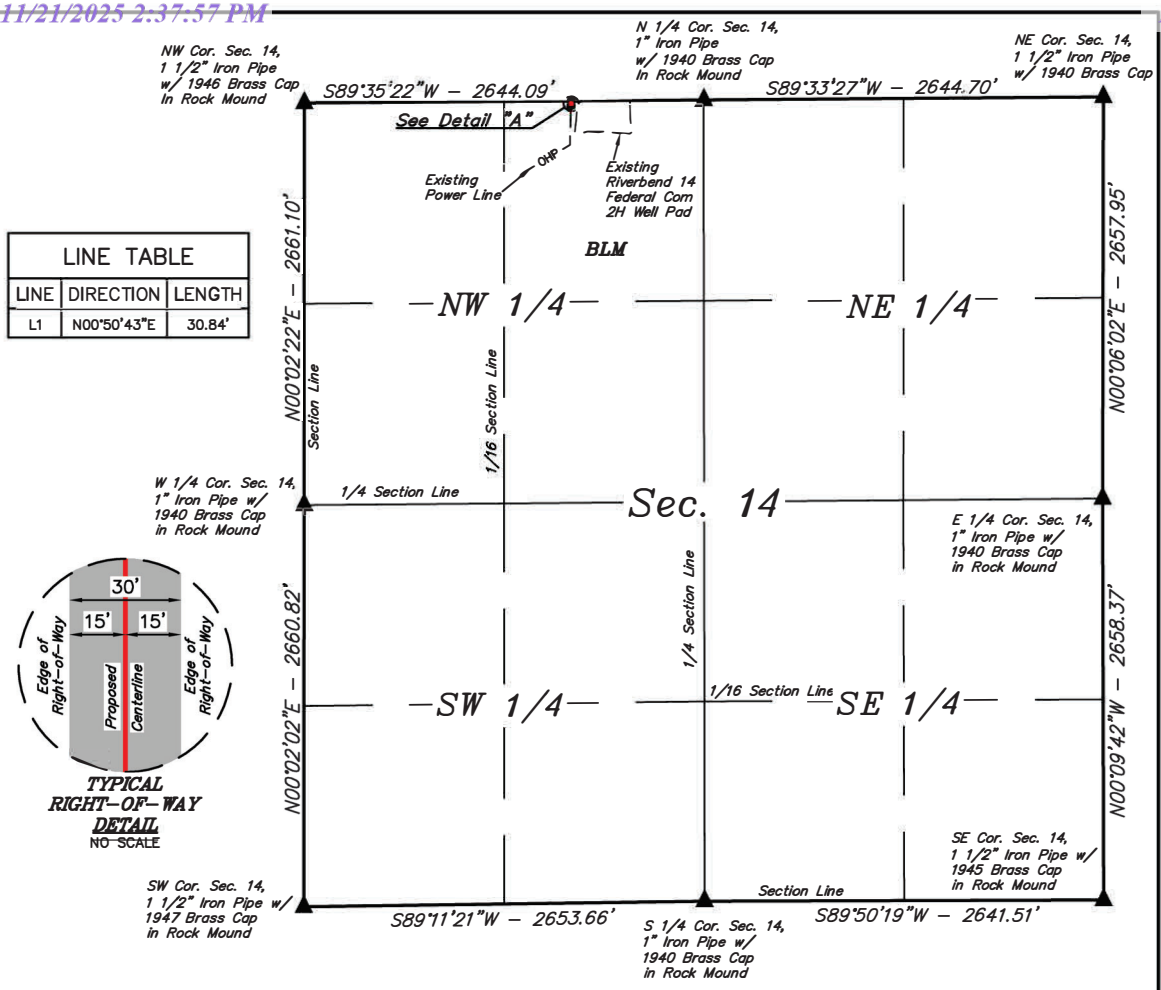
N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTIONS 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	**SCALE**
DRAWN BY	L.T.T.	11-12-24	1" = 1000'

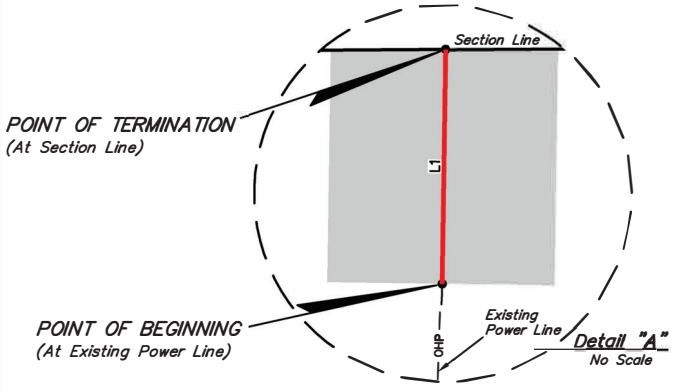
OVERALL POWER LINE



POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S87°34'46"W 879.10' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N00°50'43"E 30.84' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S89°35'22"W 877.88' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.021 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S87°34'46"W 879.10' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S89°35'22"W 877.88' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

CERTIFICATE

THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 11-12-24

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	30.84	1.87	0.021

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

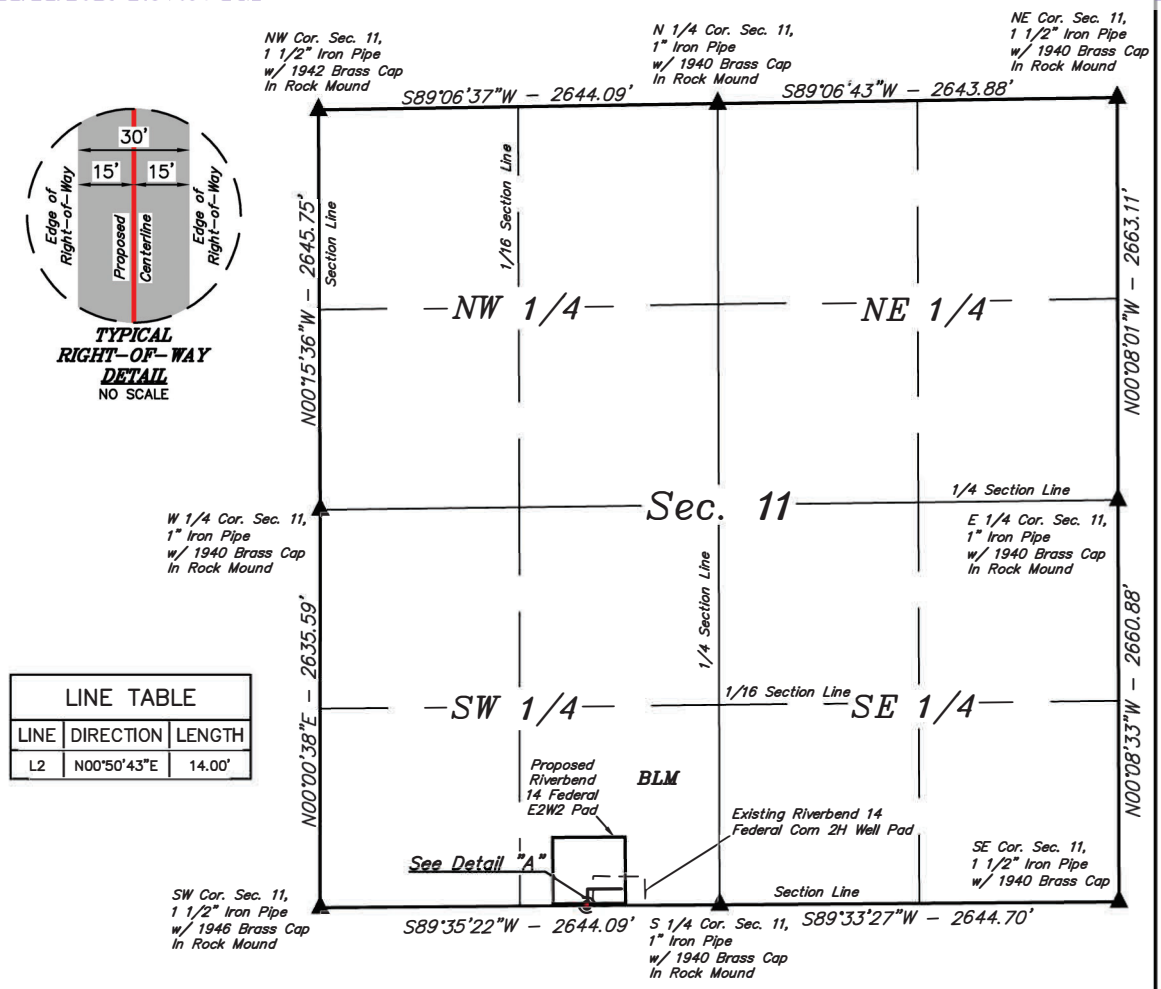
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-A1		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

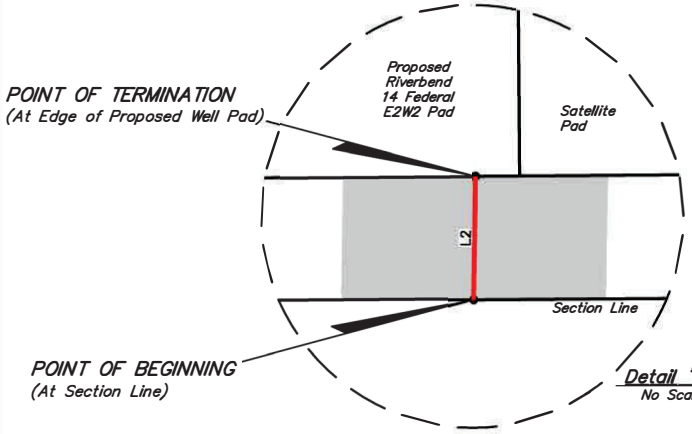


LINE TABLE		
LINE	DIRECTION	LENGTH
L2	N00°50'43"E	14.00'

POWER LINE RIGHT–OF–WAY DESCRIPTION

A 30' WIDE RIGHT–OF–WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

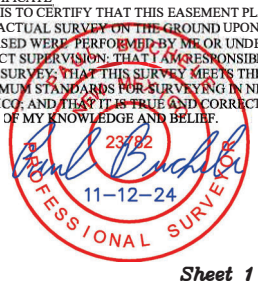
COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 877.88' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 TO THE POINT OF BEGINNING; THENCE N00°50'43"E 14.00' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.010 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S89°35'22"W 877.88' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

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ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	14.00	0.85	0.010

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

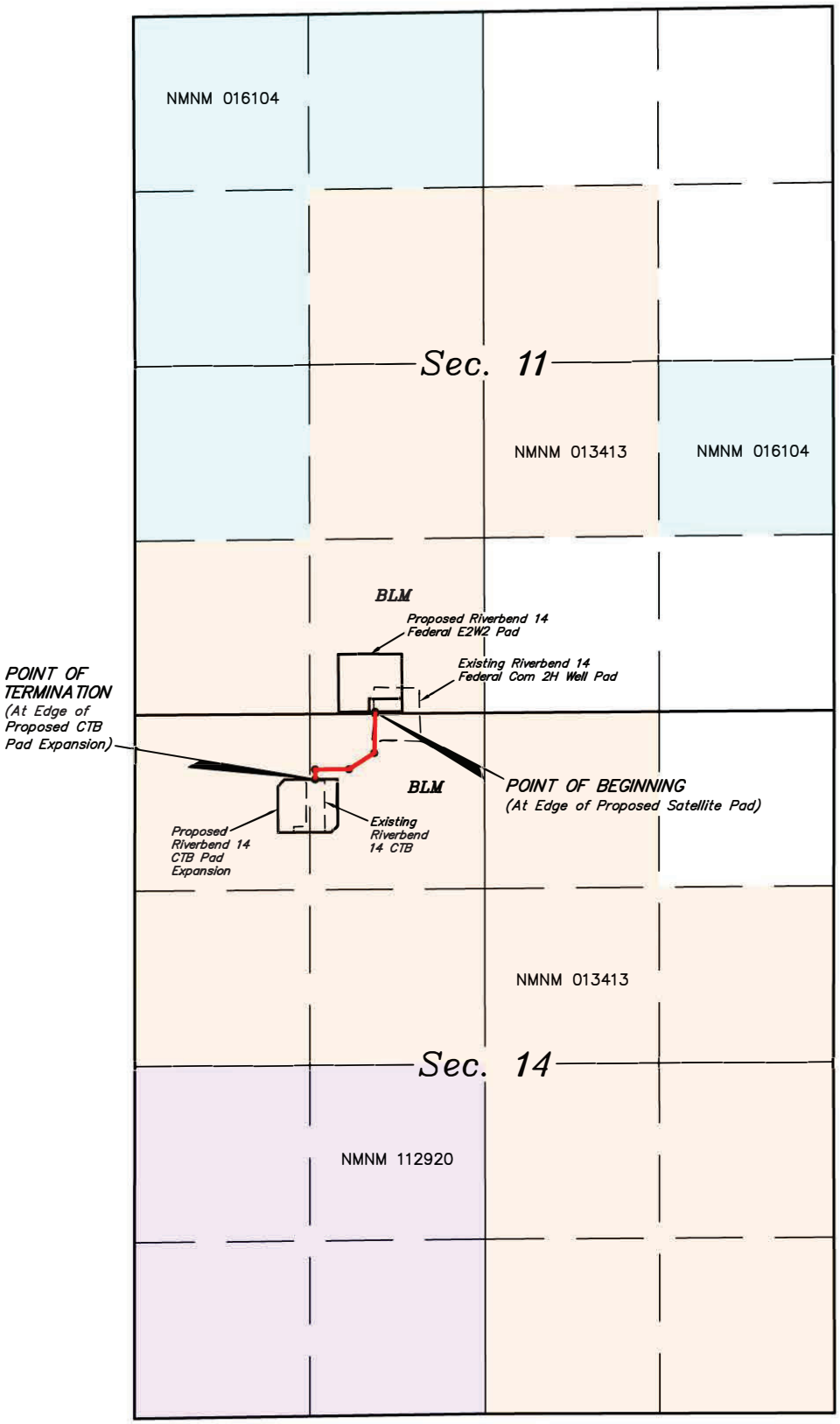
N

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-B1		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTE:
- Colored areas within section lines represent Federal oil & gas leases.

LEGEND:
- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

N

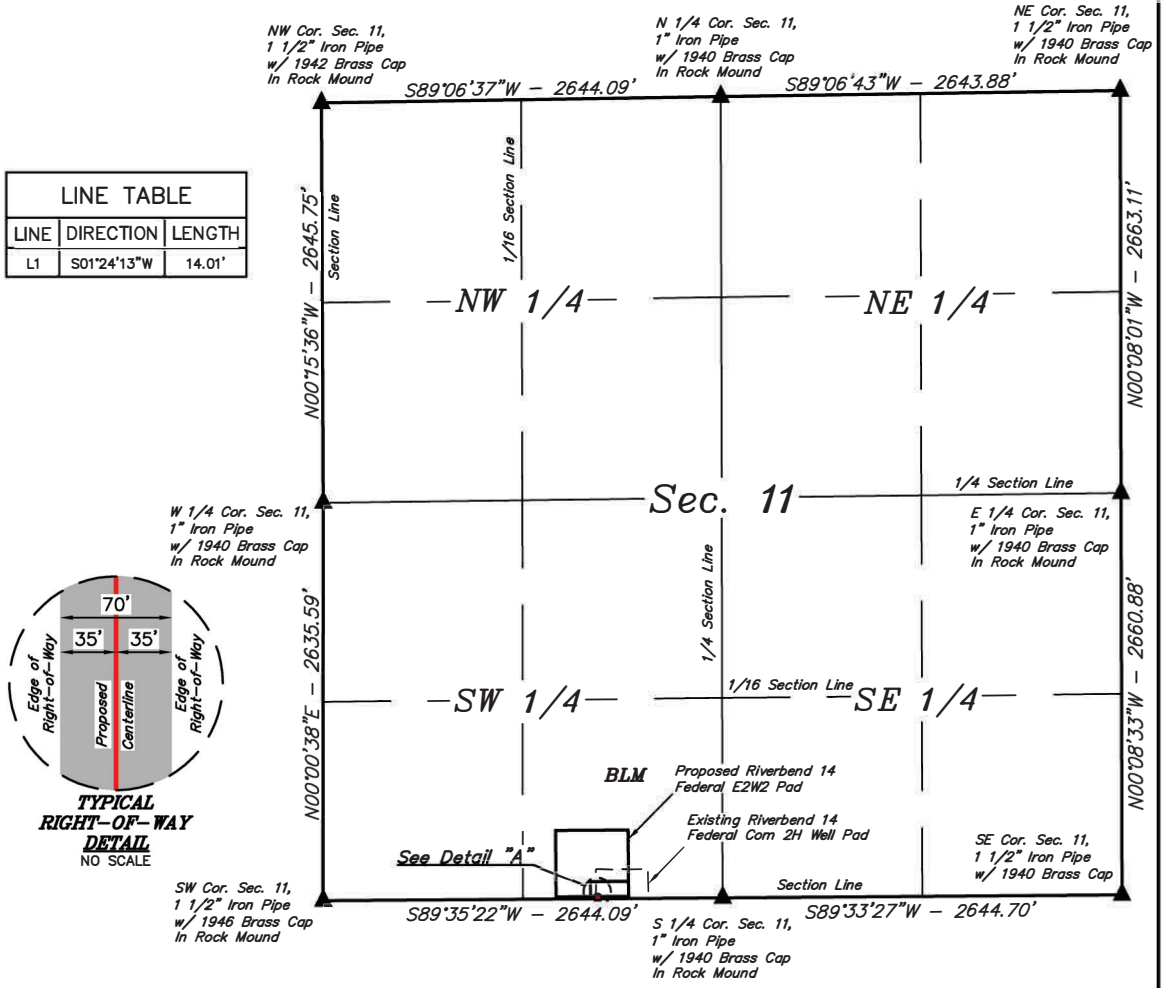
REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTIONS 11 & 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	**SCALE**
DRAWN BY	T.I.R.	09-24-24	1" = 1000'

OVERALL BULK LINE



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S01°24'13"W	14.01'

TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

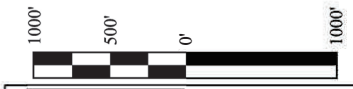
BULK LINE RIGHT-OF-WAY DESCRIPTION

A 70' WIDE RIGHT-OF-WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE N89°26'26"W 827.06' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF BEGINNING; THENCE S01°24'13"W 14.01' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS S89°35'22"W 827.38' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.023 ACRES MORE OR LESS.

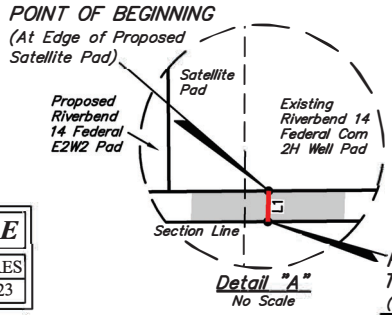
POINT OF BEGINNING BEARS N89°26'26"W 827.06' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S89°35'22"W 827.38' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

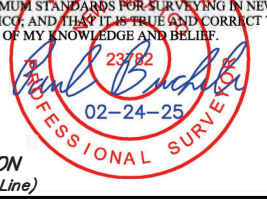


ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 11 (SW 1/4)	14.01	0.85	0.023

▲ = SECTION CORNERS LOCATED.



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REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

CIMAREX ENERGY CO.

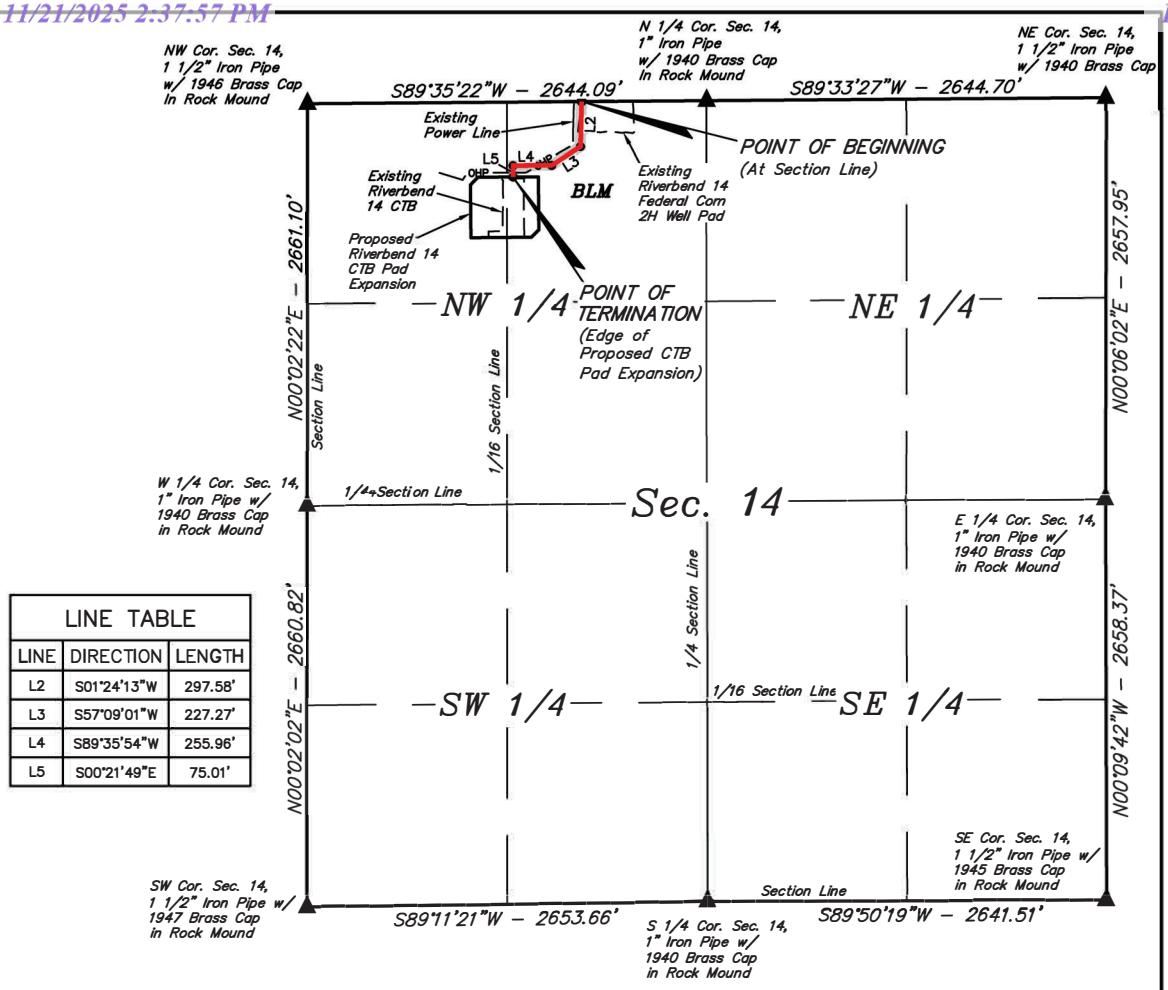
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-A1		
BULK LINE R-O-W			EXHIBIT G

N

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L2	S01°24'13"W	297.58'
L3	S57°09'01"W	227.27'
L4	S89°35'54"W	255.96'
L5	S00°21'49"E	75.01'

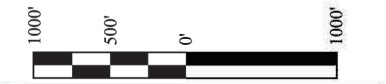
BULK LINE RIGHT–OF–WAY DESCRIPTION

A 70' WIDE RIGHT–OF–WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 827.38' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 14 TO THE POINT OF BEGINNING; THENCE S01°24'13"W 297.58'; THENCE S57°09'01"W 227.27'; THENCE S89°35'54"W 255.96'; THENCE S00°21'49"E 75.01' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S68°32'37"W 1376.45' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 1.375 ACRES MORE OR LESS.

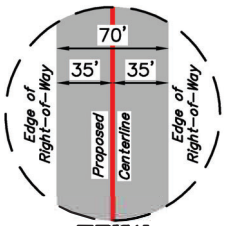
POINT OF BEGINNING BEARS S89°35'22"W 827.38' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S68°32'37"W 1376.45' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.



ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	855.82	51.87	1.375

▲ = SECTION CORNERS LOCATED.



TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
02–24–25

REV: 2 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

N

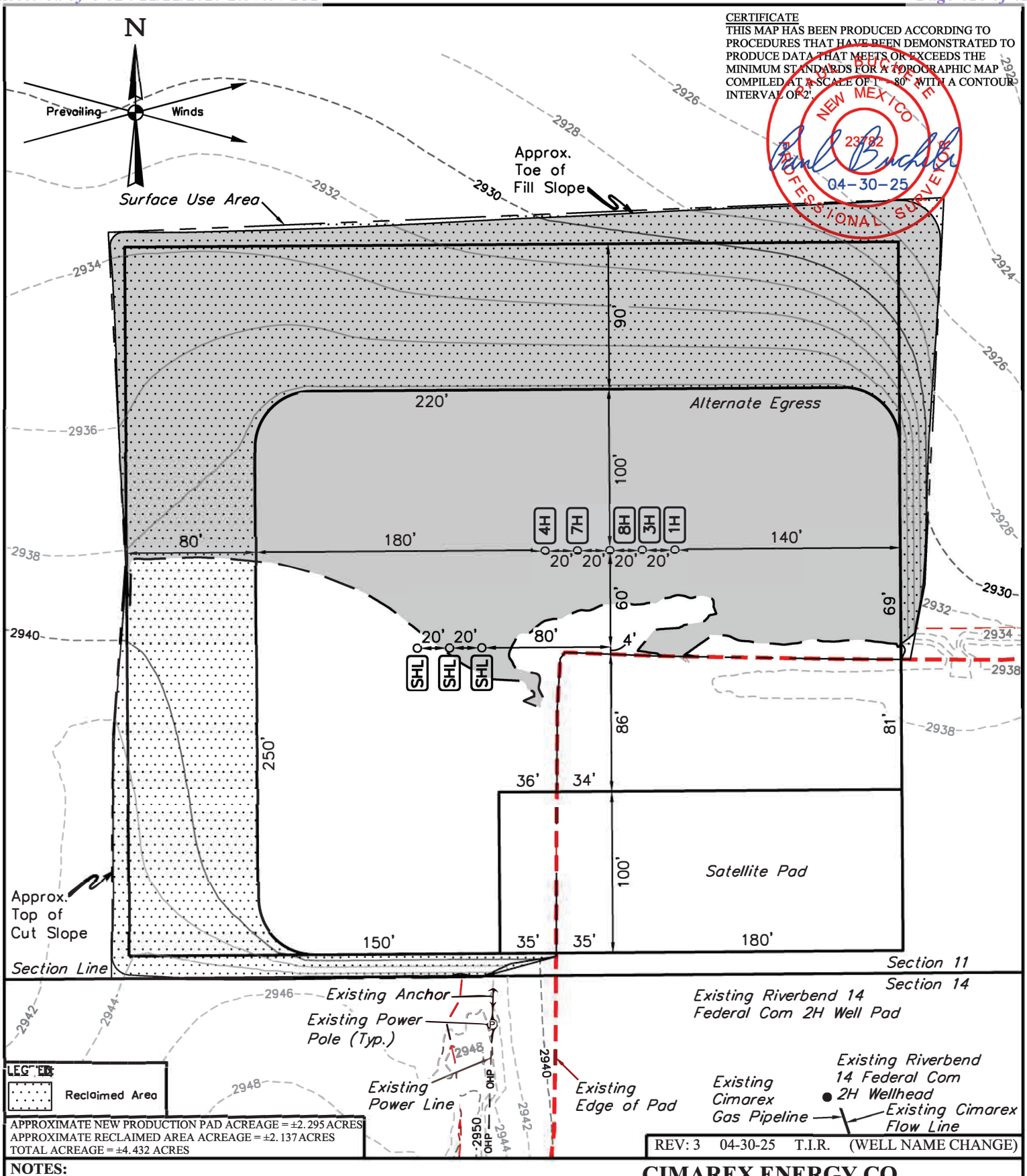
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-06-25	SCALE
DRAWN BY	T.I.R.	09-24-24	1" = 1000'
FILE	C-7853-B1		
BULK LINE R-O-W			EXHIBIT G

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

LEGEND
Reclaimed Area

APPROXIMATE NEW PRODUCTION PAD ACREAGE = ±2.295 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±2.137 ACRES
TOTAL ACREAGE = ±4.432 ACRES

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:
- Contours shown at 2' intervals.

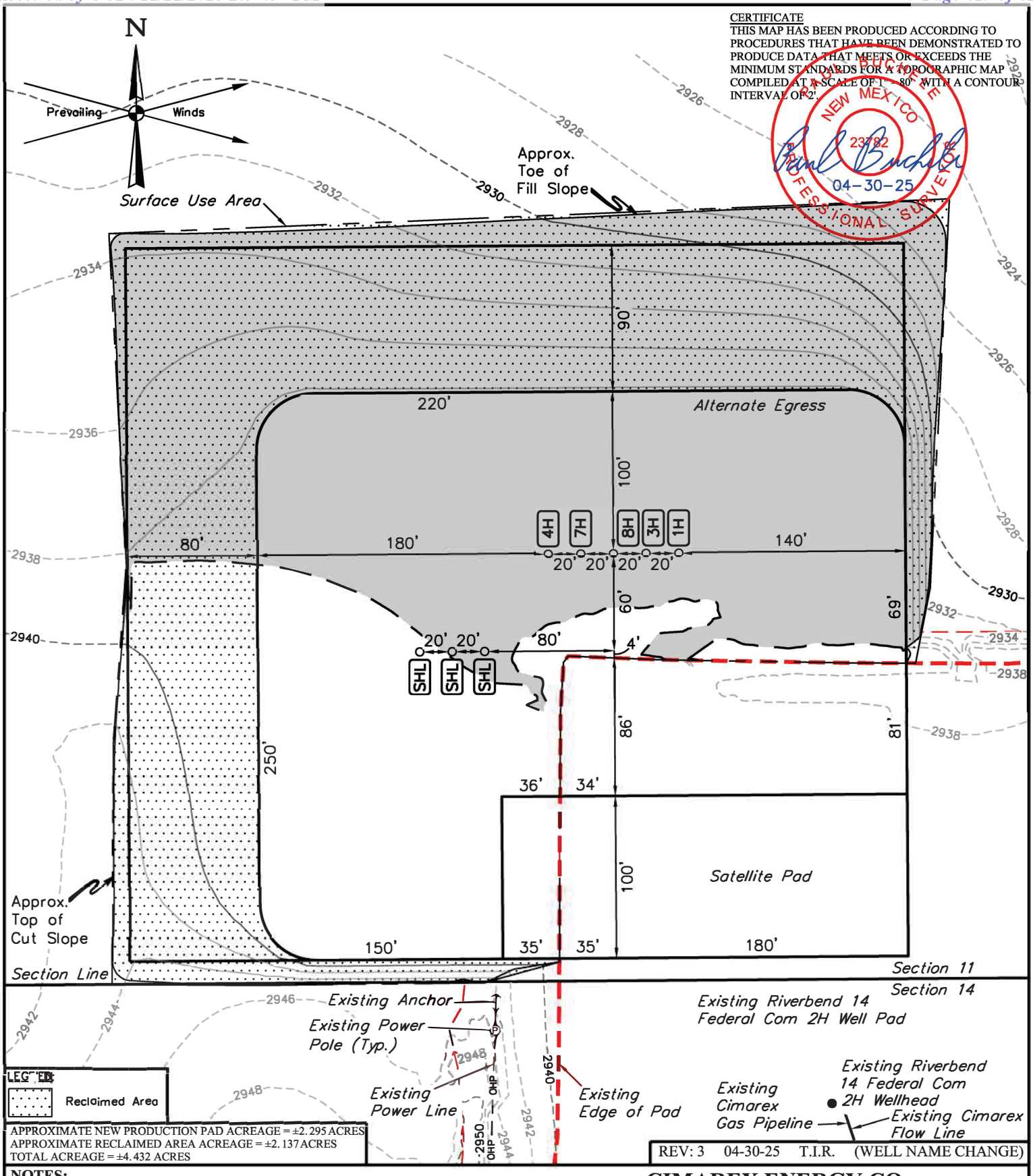
CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H..	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'

RECLAMATION DIAGRAM **EXHIBIT P**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR INTERVAL OF 2'.

REGISTERED PROFESSIONAL SURVEYOR NEW MEXICO 23782 Paul Buchheit 04-30-25

APPROXIMATE NEW PRODUCTION PAD ACREAGE = ±2.295 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±2.137 ACRES
TOTAL ACREAGE = ±4.432 ACRES

REV: 3 04-30-25 T.I.R. (WELL NAME CHANGE)

NOTES:
- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., K.H..	08-07-24	SCALE
DRAWN BY	D.M.C.	08-20-24	1" = 80'

RECLAMATION DIAGRAM **EXHIBIT P**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report
11/06/2025

APD ID: 10400105574 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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:** 1H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

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:** 1H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data

11/06/2025

APD ID: 10400105574 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 1H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: NMB001188

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type: ☑ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
	53610	San Lorenzo; Bone Spring, North

Property Code	Property Name	Well Number
	RIVERBEND 14 FEDERAL COM	1H

OGRID No.	Operator Name	Ground Level Elevation
162683	CIMAREX ENERGY CO. OF COLORADO	2,934.5'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal Mineral Owner: ☐ State ☑ Fee ☐ Tribal ☑ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
N	11	25S	28E		264 SOUTH	1,880 WEST	32.138126°	-104.060432°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	335 EAST	32.137203°	-104.050500°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	Defining well		N	C and F

Order Numbers. Pending Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,990 EAST	32.137161°	-104.055846°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	14	25S	28E		100 NORTH	1,990 EAST	32.137161°	-104.055846°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	14	25S	28E		100 NORTH	335 EAST	32.137203°	-104.050500°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
E2 of Sec. 14	☒ Horizontal ☐ Vertical	2,934.5'

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief , and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Crystal Denson 11/17/2025

Signature Date

Crystal Denson

Printed Name

crystal.denson@coterra.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-30-25

Signature and Seal of Professional Surveyor

23782 August 7, 2024

Certificate Number Date of Survey

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Released to Imaging: 12/5/2025 11:04:51 AM

Property Name	Well Number	Drawn By	Revised By
RIVERBEND 14 FEDERAL COM	1H	L.T.T. 11-12-24	REV: 2 T.I.R. 04-30-25 (UPDATE WELLBORE)

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'17.25" (32.138126°)
LONGITUDE = -104°03'37.55" (-104.060432°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'16.81" (32.138003°)
LONGITUDE = -104°03'35.79" (-104.059943°)
STATE PLANE NAD 83 (N.M. EAST)
N: 414092.97' E: 625806.83'
STATE PLANE NAD 27 (N.M. EAST)
N: 414034.88' E: 584622.64'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°08'13.78" (32.137161°)
LONGITUDE = -104°03'21.05" (-104.055846°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°08'13.34" (32.137038°)
LONGITUDE = -104°03'19.29" (-104.055357°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413745.50' E: 627227.13'
STATE PLANE NAD 27 (N.M. EAST)
N: 413687.40' E: 586042.89'

NAD 83 (KOP 2)
LATITUDE = 32°07'31.44" (32.125401°)
LONGITUDE = -104°03'20.96" (-104.055822°)
NAD 27 (KOP 2)
LATITUDE = 32°07'31.00" (32.125278°)
LONGITUDE = -104°03'19.20" (-104.055334°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409467.44' E: 627245.43'
STATE PLANE NAD 27 (N.M. EAST)
N: 409409.42' E: 586061.10'

NAD 83 (NPZ 1)
LATITUDE = 32°07'24.90" (32.123583°)
LONGITUDE = -104°03'17.06" (-104.054739°)
NAD 27 (NPZ 1)
LATITUDE = 32°07'24.45" (32.123459°)
LONGITUDE = -104°03'15.30" (-104.054251°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408806.85' E: 627582.42'
STATE PLANE NAD 27 (N.M. EAST)
N: 408748.84' E: 586398.07'

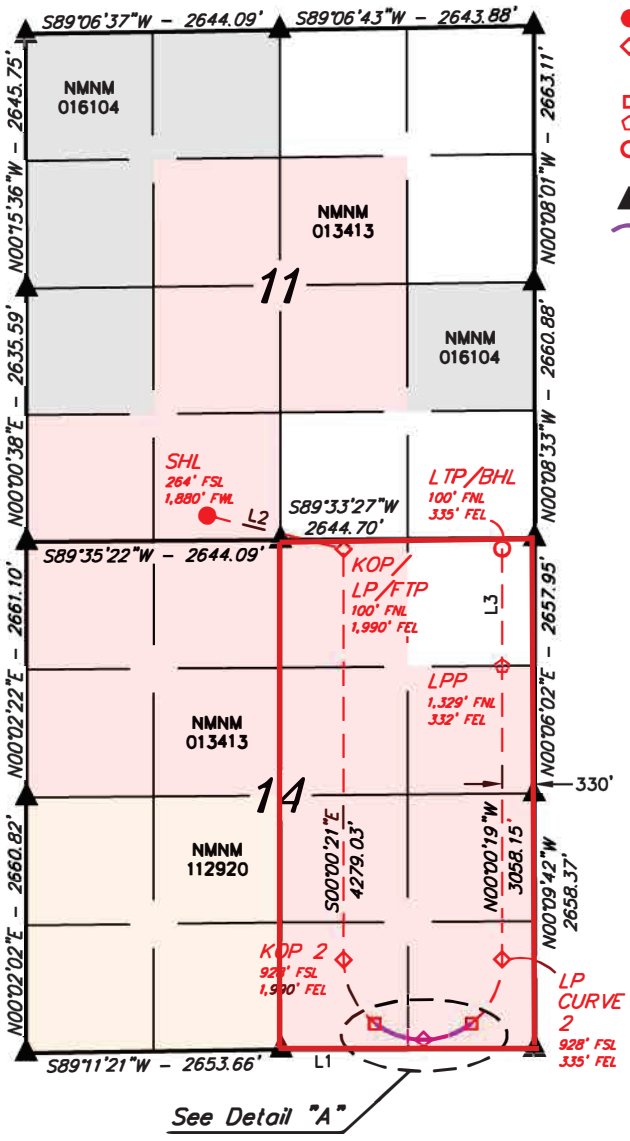
NAD 83 (PEAK CURVE 2)
LATITUDE = 32°07'23.29" (32.123137°)
LONGITUDE = -104°03'11.30" (-104.053139°)
NAD 27 (PEAK CURVE 2)
LATITUDE = 32°07'22.85" (32.123013°)
LONGITUDE = -104°03'09.54" (-104.052651°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408645.92' E: 628078.25'
STATE PLANE NAD 27 (N.M. EAST)
N: 408587.91' E: 586893.88'

NAD 83 (NPZ 2)
LATITUDE = 32°07'24.94" (32.123594°)
LONGITUDE = -104°03'05.55" (-104.051542°)
NAD 27 (NPZ 2)
LATITUDE = 32°07'24.50" (32.123471°)
LONGITUDE = -104°03'03.79" (-104.051054°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408813.77' E: 628572.32'
STATE PLANE NAD 27 (N.M. EAST)
N: 408755.75' E: 587387.94'

NAD 83 (LP CURVE 2)
LATITUDE = 32°07'31.51" (32.125421°)
LONGITUDE = -104°03'01.72" (-104.050477°)
NAD 27 (LP CURVE 2)
LATITUDE = 32°07'31.07" (32.125298°)
LONGITUDE = -104°02'59.96" (-104.049989°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409479.01' E: 628900.03'
STATE PLANE NAD 27 (N.M. EAST)
N: 409420.97' E: 587715.66'

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" (-104.050005°)
STATE PLANE NAD 83 (N.M. EAST)
N: 412536.47' E: 628886.97'
STATE PLANE NAD 27 (N.M. EAST)
N: 412478.37' E: 587702.67'

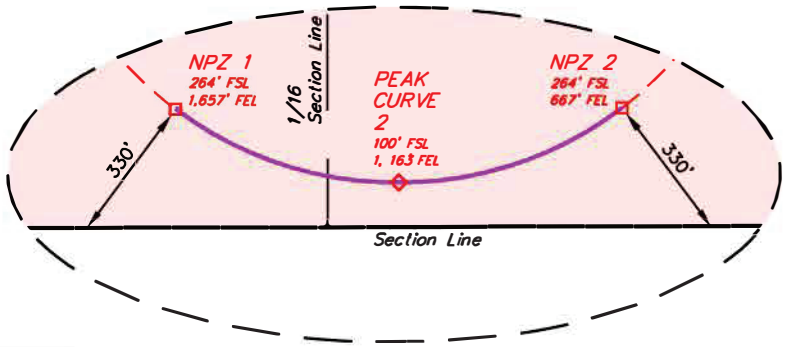
NAD 83 (LTP/BHL)
LATITUDE = 32°08'13.93" (32.137203°)
LONGITUDE = -104°03'01.80" (-104.050500°)
NAD 27 (LTP/BHL)
LATITUDE = 32°08'13.49" (32.137080°)
LONGITUDE = -104°03'00.04" (-104.050012°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413765.19' E: 628881.73'
STATE PLANE NAD 27 (N.M. EAST)
N: 413707.07' E: 587697.45'



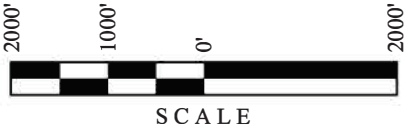
= SURFACE HOLE LOCATION
= KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
= NPZ POINT
= LEASE PENETRATION POINT
= LAST TAKE POINT/BOTTOM HOLE LOCATION
= SECTION CORNER LOCATED
= NON-PERFORATION ZONE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°50'19"W	2641.51'
L2	S76°00'49"E	1462.50'
L3	N00°00'19"W	1229.00'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.



Detail "A"
No Scale



Sheet 2 of 2

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 524114
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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Phone: (505) 476-3441

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Phone: (505) 629-6116

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 524114
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
cdenson	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/21/2025
cdenson	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/21/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/5/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/5/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/5/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/5/2025