AFMSS

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

Application for Permit to Drill

APD Package Report

Date Printed: 11/06/2025 09:36 AM

APD ID:	10400105707	Well Status:	AAPD
APD Received Date:	07/30/2025 09:33 AM	Well Name:	RIVERBEND 14 FEDERAL C
Operator:	CIMAREX ENERGY COMPANY OF	Well Number:	3H

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: 10 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 3H

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: SENW / 264 FSL / 1860 FWL / LAT 32.138126 / LONG -104.060496

At proposed prod. zone: NENE / 100 FNL / 776 FEL / LAT 32.137192 / LONG -104.051926

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): 776 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: 8289 feet / 19101 feet

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

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

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

23. Estimated duration: 30 days

24. Attachments

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

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

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	CRYSTAL DENSON / Ph: (432) 620-1936	07/30/2025
Title: Regulatory Analyst		
Approved by *(Signature)*: (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: SENW / 264 FSL / 1860 FWL / TWSP: 25S / RANGE: 28E / SECTION: 11 / LAT: 32.138126 / LONG: -104.060496 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2002 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.137161 / LONG: -104.055886 (TVD: 8250 feet, MD: 8622 feet)

PPP: SENE / 1329 FSL / 774 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.133814 / LONG: -104.051918 (TVD: 8289 feet, MD: 14762 feet)

BHL: NENE / 100 FNL / 776 FEL / TWSP: 25S / RANGE: 28E / SECTION: 14 / LAT: 32.137192 / LONG: -104.051926 (TVD: 8289 feet, MD: 19101 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 3H

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**

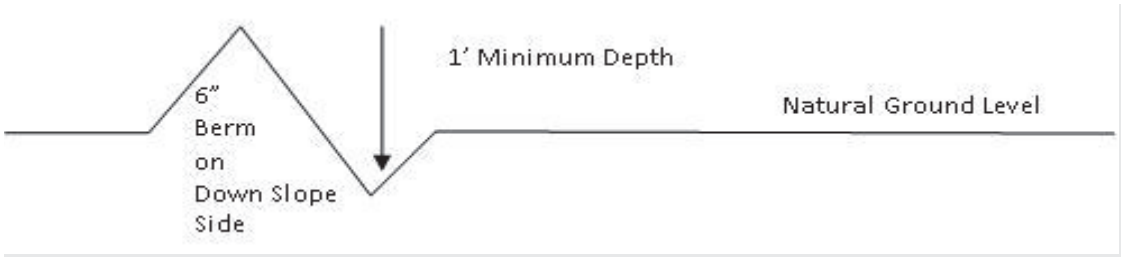
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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

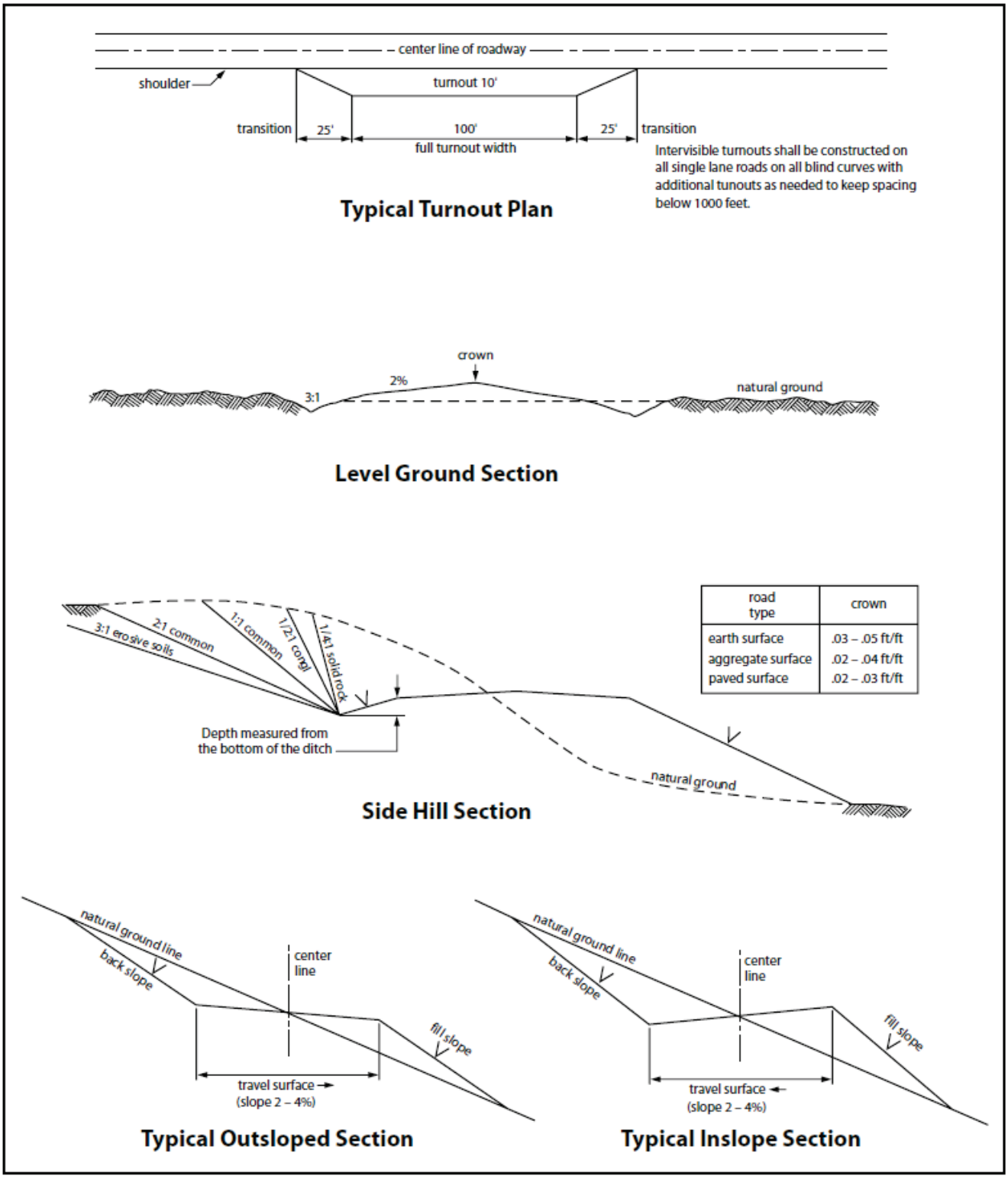


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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: 10400105707 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

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

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400105707 **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:** 3H **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 11:24:01 AM

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

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 FED COM **Number:** 3H

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

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 6 Miles **Distance to nearest well:** 20 FT **Distance to lease line:** 776 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: RIVERBEND_14_FEDERAL_E2W2_05_06_25_C_102_WELL_3H_20250902082350.pdf

RIVERBEND_14_FEDERAL_E2W2_05_06_25_C_102_WELL_3H_20250912080628.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	1860	FWL	25S	28E	11	Aliquot SENW	32.138126	-104.060496	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 13413	2935			N
KOP Leg #1	100	FNL	2002	FEL	25S	28E	14	Aliquot NWNE	32.137161	-104.055886	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 13413	-5315	8622	8250	Y

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

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	2002	FEL	25S	28E	14	Aliquot NWNE	32.137161	-104.055886	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 13413	-5315	8622	8250	Y
PPP Leg #1-2	1329	FSL	774	FEL	25S	28E	14	Aliquot SENE	32.133814	-104.051918	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-5354	14762	8289	Y
EXIT Leg #1	100	FNL	776	FEL	25S	28E	14	Aliquot NENE	32.137192	-104.051926	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-5354	19101	8289	Y
BHL Leg #1	100	FNL	776	FEL	25S	28E	14	Aliquot NENE	32.137192	-104.051926	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-5354	19101	8289	Y

CONFIDENTIAL

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

WELL LOCATION INFORMATION

API Number	Pool Code 53610	Pool Name San Lorenzo; Bone Spring, North
Property Code	Property Name RIVERBEND 14 FEDERAL COM	Well Number 3H
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Ground Level Elevation 2,935.0'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal	Mineral Owner: ☐ State ☑ Fee ☐ Tribal ☑ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
N	11	25S	28E		264 SOUTH	1,860 WEST	32.138126°	-104.060496°	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	776 EAST	32.137192°	-104.051926°	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	2,002 EAST	32.137161°	-104.055886°	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	2,002 EAST	32.137161°	-104.055886°	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	776 EAST	32.137192°	-104.051926°	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 — Certificate Number

August 7, 2024 — 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 11:24:01 AM

Property Name	Well Number	Drawn By	Revised By
RIVERBEND 14 FEDERAL COM	3H	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°03'37.79" (-104.060496°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'16.81" (32.138003°)
LONGITUDE = -104°03'36.03" (-104.060007°)
STATE PLANE NAD 83 (N.M. EAST)
N: 414092.74' E: 625786.84'
STATE PLANE NAD 27 (N.M. EAST)
N: 414034.65' E: 584602.64'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°08'13.78" (32.137161°)
LONGITUDE = -104°03'21.19" (-104.055886°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°08'13.34" (32.137038°)
LONGITUDE = -104°03'19.43" (-104.055397°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413745.35' E: 627214.86'
STATE PLANE NAD 27 (N.M. EAST)
N: 413687.25' E: 586030.62'

NAD 83 (KOP 2)
LATITUDE = 32°07'29.32" (32.124811°)
LONGITUDE = -104°03'21.09" (-104.055859°)
NAD 27 (KOP 2)
LATITUDE = 32°07'28.88" (32.124688°)
LONGITUDE = -104°03'19.33" (-104.055371°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409252.90' E: 627234.66'
STATE PLANE NAD 27 (N.M. EAST)
N: 409194.89' E: 586050.32'

NAD 83 (NPZ 1)
LATITUDE = 32°07'24.74" (32.123540°)
LONGITUDE = -104°03'18.61" (-104.055168°)
NAD 27 (NPZ 1)
LATITUDE = 32°07'24.30" (32.123417°)
LONGITUDE = -104°03'16.85" (-104.054680°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408791.01' E: 627449.67'
STATE PLANE NAD 27 (N.M. EAST)
N: 408733.01' E: 586265.31'

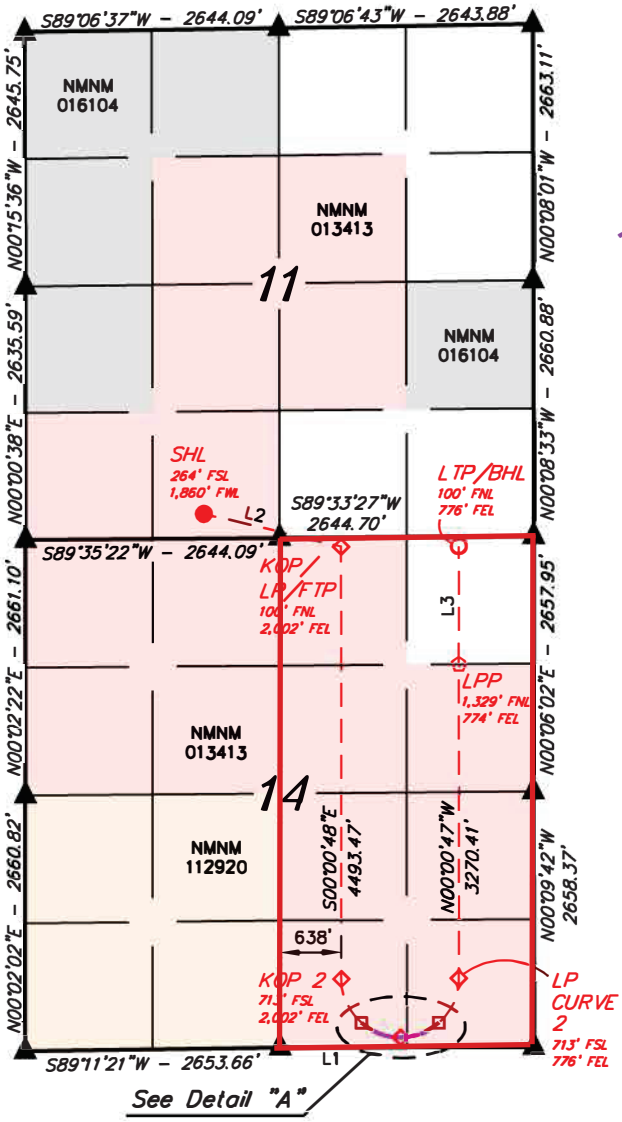
NAD 83 (PEAK CURVE 2)
LATITUDE = 32°07'23.28" (32.123134°)
LONGITUDE = -104°03'13.93" (-104.053871°)
NAD 27 (PEAK CURVE 2)
LATITUDE = 32°07'22.84" (32.123011°)
LONGITUDE = -104°03'12.18" (-104.053382°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408644.34' E: 627851.80'
STATE PLANE NAD 27 (N.M. EAST)
N: 408586.33' E: 586667.44'

NAD 83 (NPZ 2)
LATITUDE = 32°07'24.78" (32.123550°)
LONGITUDE = -104°03'09.28" (-104.052577°)
NAD 27 (NPZ 2)
LATITUDE = 32°07'24.34" (32.123427°)
LONGITUDE = -104°03'07.52" (-104.052089°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408796.62' E: 628251.84'
STATE PLANE NAD 27 (N.M. EAST)
N: 408738.60' E: 587067.47'

NAD 83 (LP CURVE 2)
LATITUDE = 32°07'29.37" (32.124826°)
LONGITUDE = -104°03'06.84" (-104.051900°)
NAD 27 (LP CURVE 2)
LATITUDE = 32°07'28.93" (32.124703°)
LONGITUDE = -104°03'05.08" (-104.051411°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409261.48' E: 628460.37'
STATE PLANE NAD 27 (N.M. EAST)
N: 409203.45' E: 587276.00'

NAD 83 (LPP)
LATITUDE = 32°08'01.73" (32.133814°)
LONGITUDE = -104°03'06.91" (-104.051918°)
NAD 27 (LPP)
LATITUDE = 32°08'01.29" (32.133691°)
LONGITUDE = -104°03'05.15" (-104.051430°)
STATE PLANE NAD 83 (N.M. EAST)
N: 412531.15' E: 628445.97'
STATE PLANE NAD 27 (N.M. EAST)
N: 412473.06' E: 587261.68'

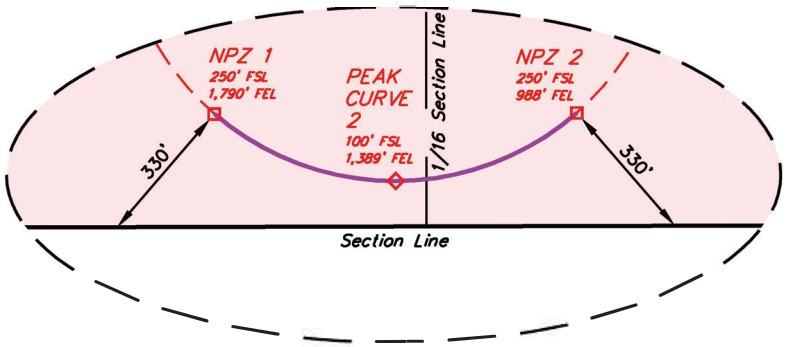
NAD 83 (LTP/BHL)
LATITUDE = 32°08'13.89" (32.137192°)
LONGITUDE = -104°03'06.93" (-104.051926°)
NAD 27 (LTP/BHL)
LATITUDE = 32°08'13.45" (32.137069°)
LONGITUDE = -104°03'05.17" (-104.051437°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413759.94' E: 628440.56'
STATE PLANE NAD 27 (N.M. EAST)
N: 413701.83' E: 587256.29'



● = 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°05'17"E	1469.98'
L3	N00°00'47"W	1229.07'

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 53610	Pool Name San Lorenzo; Bone Spring, North
Property Code	Property Name RIVERBEND 14 FEDERAL COM	Well Number 3H
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Ground Level Elevation 2,935.0'

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

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
N	11	25S	28E		264 SOUTH	1,860 WEST	32.138126°	-104.060496°	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	776 EAST	32.137192°	-104.051926°	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	2,002 EAST	32.137161°	-104.055886°	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	2,002 EAST	32.137161°	-104.055886°	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	776 EAST	32.137192°	-104.051926°	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	3H	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°03'37.79" (-104.060496°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'16.81" (32.138003°)
LONGITUDE = -104°03'36.03" (-104.060007°)
STATE PLANE NAD 83 (N.M. EAST)
N: 414092.74' E: 625786.84'
STATE PLANE NAD 27 (N.M. EAST)
N: 414034.65' E: 584602.64'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°08'13.78" (32.137161°)
LONGITUDE = -104°03'21.19" (-104.055886°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°08'13.34" (32.137038°)
LONGITUDE = -104°03'19.43" (-104.055397°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413745.35' E: 627214.86'
STATE PLANE NAD 27 (N.M. EAST)
N: 413687.25' E: 586030.62'

NAD 83 (KOP 2)
LATITUDE = 32°07'29.32" (32.124811°)
LONGITUDE = -104°03'21.09" (-104.055859°)
NAD 27 (KOP 2)
LATITUDE = 32°07'28.88" (32.124688°)
LONGITUDE = -104°03'19.33" (-104.055371°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409252.90' E: 627234.66'
STATE PLANE NAD 27 (N.M. EAST)
N: 409194.89' E: 586050.32'

NAD 83 (NPZ 1)
LATITUDE = 32°07'24.74" (32.123540°)
LONGITUDE = -104°03'18.61" (-104.055168°)
NAD 27 (NPZ 1)
LATITUDE = 32°07'24.30" (32.123417°)
LONGITUDE = -104°03'16.85" (-104.054680°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408791.01' E: 627449.67'
STATE PLANE NAD 27 (N.M. EAST)
N: 408733.01' E: 586265.31'

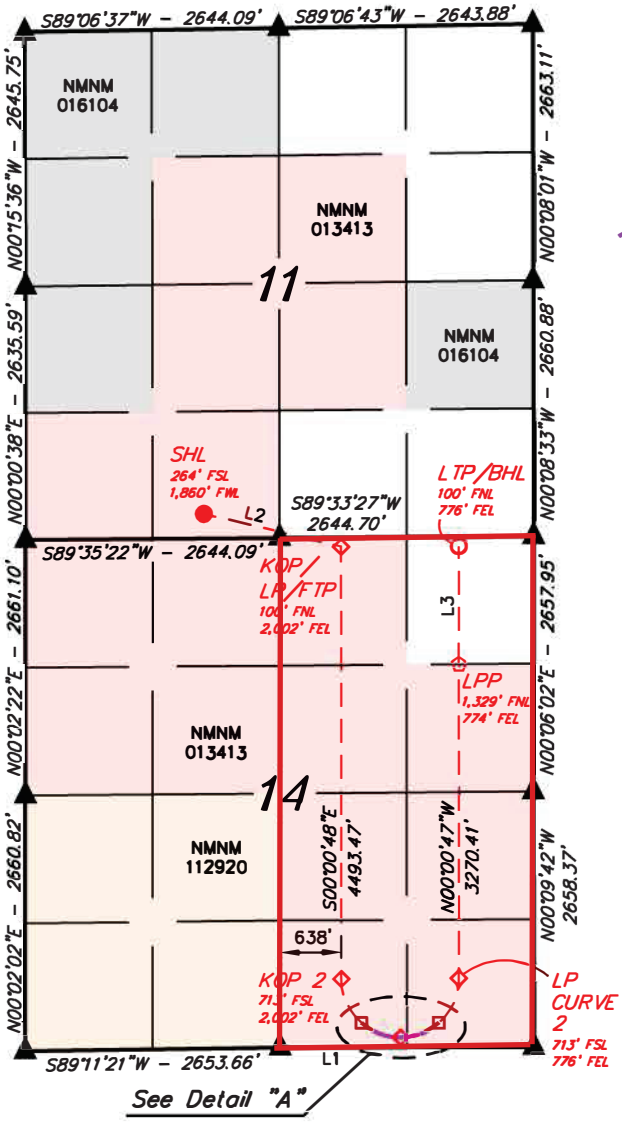
NAD 83 (PEAK CURVE 2)
LATITUDE = 32°07'23.28" (32.123134°)
LONGITUDE = -104°03'13.93" (-104.053871°)
NAD 27 (PEAK CURVE 2)
LATITUDE = 32°07'22.84" (32.123011°)
LONGITUDE = -104°03'12.18" (-104.053382°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408644.34' E: 627851.80'
STATE PLANE NAD 27 (N.M. EAST)
N: 408586.33' E: 586667.44'

NAD 83 (NPZ 2)
LATITUDE = 32°07'24.78" (32.123550°)
LONGITUDE = -104°03'09.28" (-104.052577°)
NAD 27 (NPZ 2)
LATITUDE = 32°07'24.34" (32.123427°)
LONGITUDE = -104°03'07.52" (-104.052089°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408796.62' E: 628251.84'
STATE PLANE NAD 27 (N.M. EAST)
N: 408738.60' E: 587067.47'

NAD 83 (LP CURVE 2)
LATITUDE = 32°07'29.37" (32.124826°)
LONGITUDE = -104°03'06.84" (-104.051900°)
NAD 27 (LP CURVE 2)
LATITUDE = 32°07'28.93" (32.124703°)
LONGITUDE = -104°03'05.08" (-104.051411°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409261.48' E: 628460.37'
STATE PLANE NAD 27 (N.M. EAST)
N: 409203.45' E: 587276.00'

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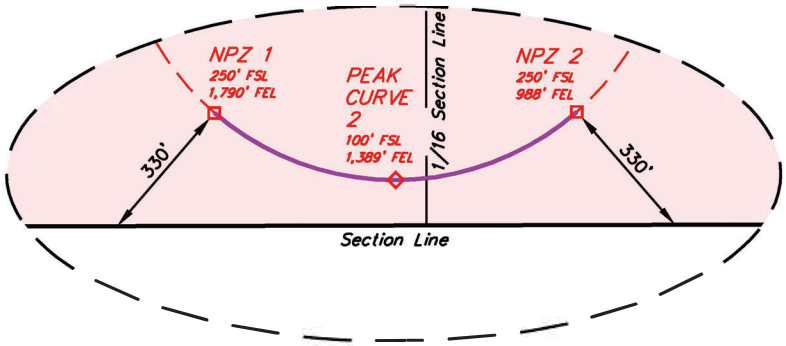
NAD 83 (LTP/BHL)
LATITUDE = 32°08'13.89" (32.137192°)
LONGITUDE = -104°03'06.93" (-104.051926°)
NAD 27 (LTP/BHL)
LATITUDE = 32°08'13.45" (32.137069°)
LONGITUDE = -104°03'05.17" (-104.051437°)
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N: 413759.94' E: 628440.56'
STATE PLANE NAD 27 (N.M. EAST)
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⬠ = LEASE PENETRATION POINT
○ = LAST TAKE POINT/BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
⌒ = NON-PERFORATION ZONE

LINE TABLE		
LINE	DIRECTION	LENGTH
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L2	S76°05'17"E	1469.98'
L3	N00°00'47"W	1229.07'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
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- 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: 10400105707 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

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

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16705564	RUSTLER	0	1091	1091	ANHYDRITE	USEABLE WATER	N
16705565	TOP SALT	-1570	1570	1570	ANHYDRITE, SALT	NONE	N
16705567	LAMAR	-2362	2362	2362	SANDSTONE	NONE	N
16705568	BELL CANYON	-2550	2550	2550	SANDSTONE	NONE	N
16705569	CHERRY CANYON	-3425	3425	3425	SANDSTONE	NATURAL GAS, OIL	N
16705570	BRUSHY CANYON	-4727	4727	4727	SANDSTONE	NATURAL GAS, OIL	N
16705571	BRUSHY CANYON LOWER	-5670	5670	5670	SANDSTONE	NATURAL GAS, OIL	N
16705572	BONE SPRING LIME	-6334	6334	6334	LIMESTONE	NATURAL GAS, OIL	N
16705573	BONE SPRING 1ST	-7260	7260	7260	SANDSTONE	NATURAL GAS, OIL	N
16705574	BONE SPRING 2ND	-7994	7994	7994	SANDSTONE	NATURAL GAS, OIL	N
16705576	BONE SPRING 2ND	-8289	8289	8289	SANDSTONE	NATURAL GAS, OIL	Y
16705575		0					N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M **Rating Depth:** 19101

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.

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

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

Choke Diagram Attachment:

NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250728095420.pdf

10M_BOPE_BLM_SUBMISSION_REV.0_20250728095420.pdf

CHOKE_HOSE_M15486_20250728095421.pdf

COTERRA_10K_PROD_TREE_20250728095421.pdf

NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250912154518.pdf

10M_BOPE_BLM_SUBMISSION_REV.0_20250912154518.pdf

CHOKE_HOSE_M15486_20250912154518.pdf

COTERRA_10K_PROD_TREE_20250912154519.pdf

COTERRA_MBU_4T_CFL_20_X_13.38_X_9.58_X_7.58_X_5.12_HBE1077DQ_20250930152541.pdf

BOP Diagram Attachment:

10M_BOP_DIAGRAM_20250728095434.pdf

10M_BOP_DIAGRAM_20250912154528.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	2935	1885	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	595	2340	J-55	36	LT&C	1.61	2.81	BUOY	5.38	BUOY	5.38
3	PRODUCTION	8.75	5.5	NEW	API	N	7903	19101	7903	8289	-4968	-5354	11198	P-110	20	BUTT	2.71	3.02	BUOY	83.03	BUOY	83.03

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

3H_Casing_Assumptions_20250930151318.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

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Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

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 (Poz:C)	Salt, Bentonite
INTERMEDIATE	Tail		2040	2340	137	1.34	14.8	184	58	Class C	LCM
PRODUCTION	Lead		2140	18101	594	3.64	10.3	2163	25	Tuned Light	LCM
PRODUCTION	Tail		18101	19101	3264	1.3	14.2	4244	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 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:** 3H

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	19101	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: 4094 **Anticipated Surface Pressure:** 2270

Anticipated Bottom Hole Temperature(F): 155

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_20250728101831.pdf
H2S_PLAN_REV.0_20250912080743.pdf

CONFIDENTIAL

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

WELL_CONTROL_PLAN_REV.0_20250728123559.pdf
Riverbend_14_Federal_Com_3H___Plan_1_20250729085250.pdf
Riverbend_14_Federal_Com_3H___Plan_1_Plot_20250729085251.pdf
Riverbend_14_Federal_Com_3H___Plan_1_AC_20250729085251.pdf
Coterra_Energy___Riverbend_14_Federal_Com_3H_Plan_1_20250730081249.pdf
WELL_CONTROL_PLAN_REV.0_20250912080801.pdf
Riverbend_14_Federal_Com_3H___Plan_1_20251021165816.pdf
Coterra_Energy___Riverbend_14_Federal_Com_3H_Plan_1_20251021165816.pdf
Riverbend_14_Federal_Com_3H___Plan_1_Plot_20251021165816.pdf
Riverbend_14_Federal_Com_3H___Plan_1_AC_20251021165817.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Riverbend_14_3H_Natural_Gas_Plan_Cimarex_20250729085322.pdf
RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250729085401.pdf
RIVERBEND_14_FEDERAL_E2W2_rig_layout_plat_20250730081222.pdf
Riverbend_14_3H_Natural_Gas_Plan_Cimarex_20250912080919.pdf
RIVERBEND_14_FEDERAL_E2W2_rig_layout_plat_20250912080937.pdf
RIVERBEND_14_FEDERAL_E2W2_location_layout_plat_20250912080938.pdf

Other Variance request(s)?: Y

Other Variance attachment:

CHOKE_HOSE_M15486_20250728123444.pdf
NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250729154741.pdf
NEW_MEXICO_STANDARD_VARIANCES_REV.1_20250912081000.pdf
CHOKE_HOSE_M15486_20250912081000.pdf

CONFIDENTIAL

Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

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

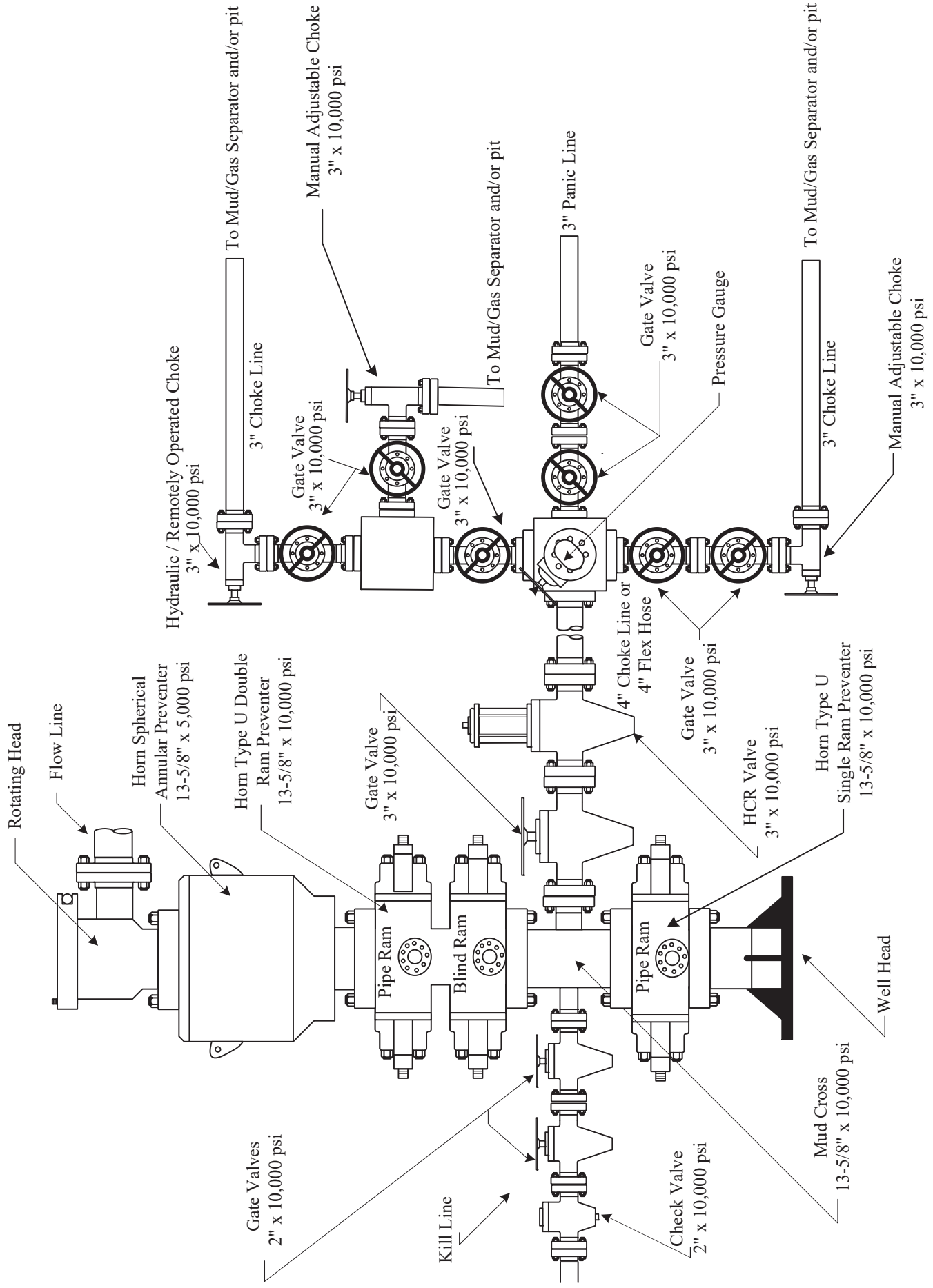
Variance Request #3: Omit the DV Tool from the Intermediate Casing

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

Variance Request #4: Utilize Co-Flex Choke Line

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

COTERRA


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

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

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

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

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

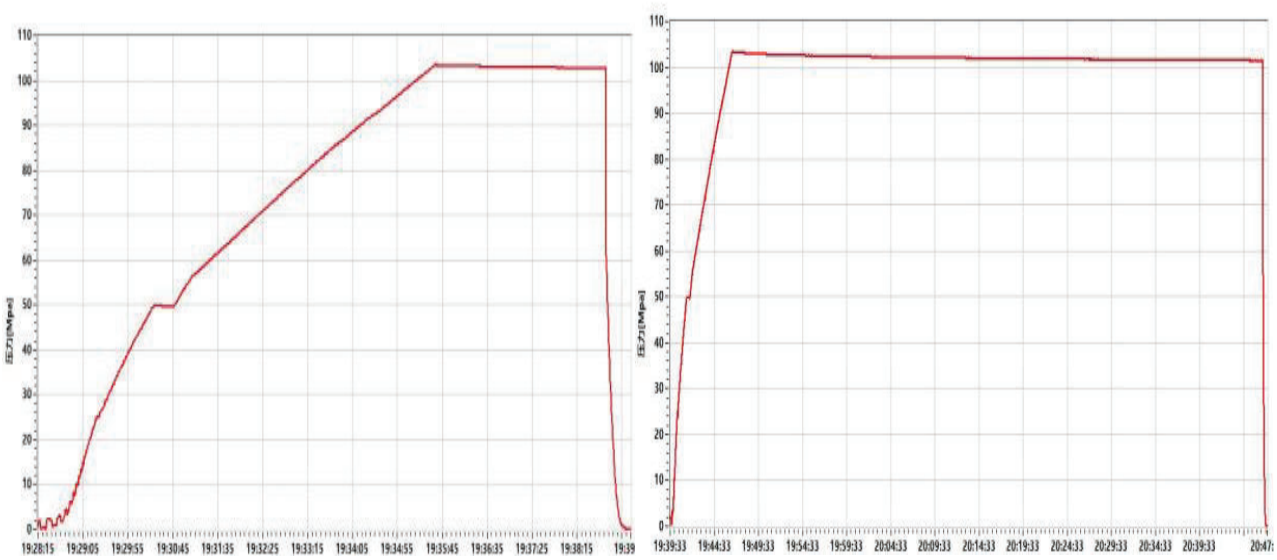
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

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

Graph of pressure testing：



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

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

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

Serial Number：VTC-7660257

customer number：PO890145-001

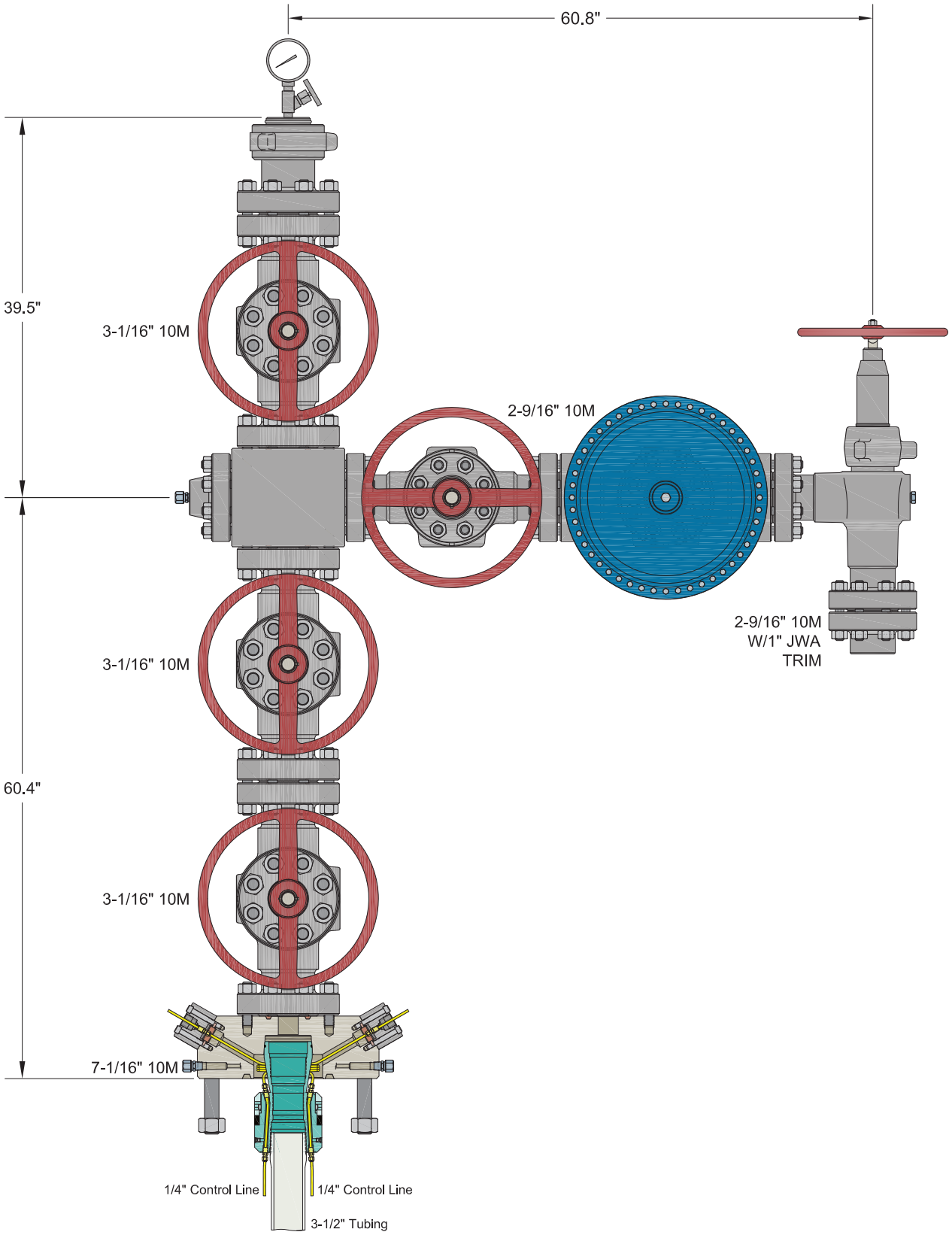
End Connections: 4-1/16″×10000psi Integral flange for sour gas service

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

QC Manager： Jane C Date:Sep 3, 2024

16C-0403

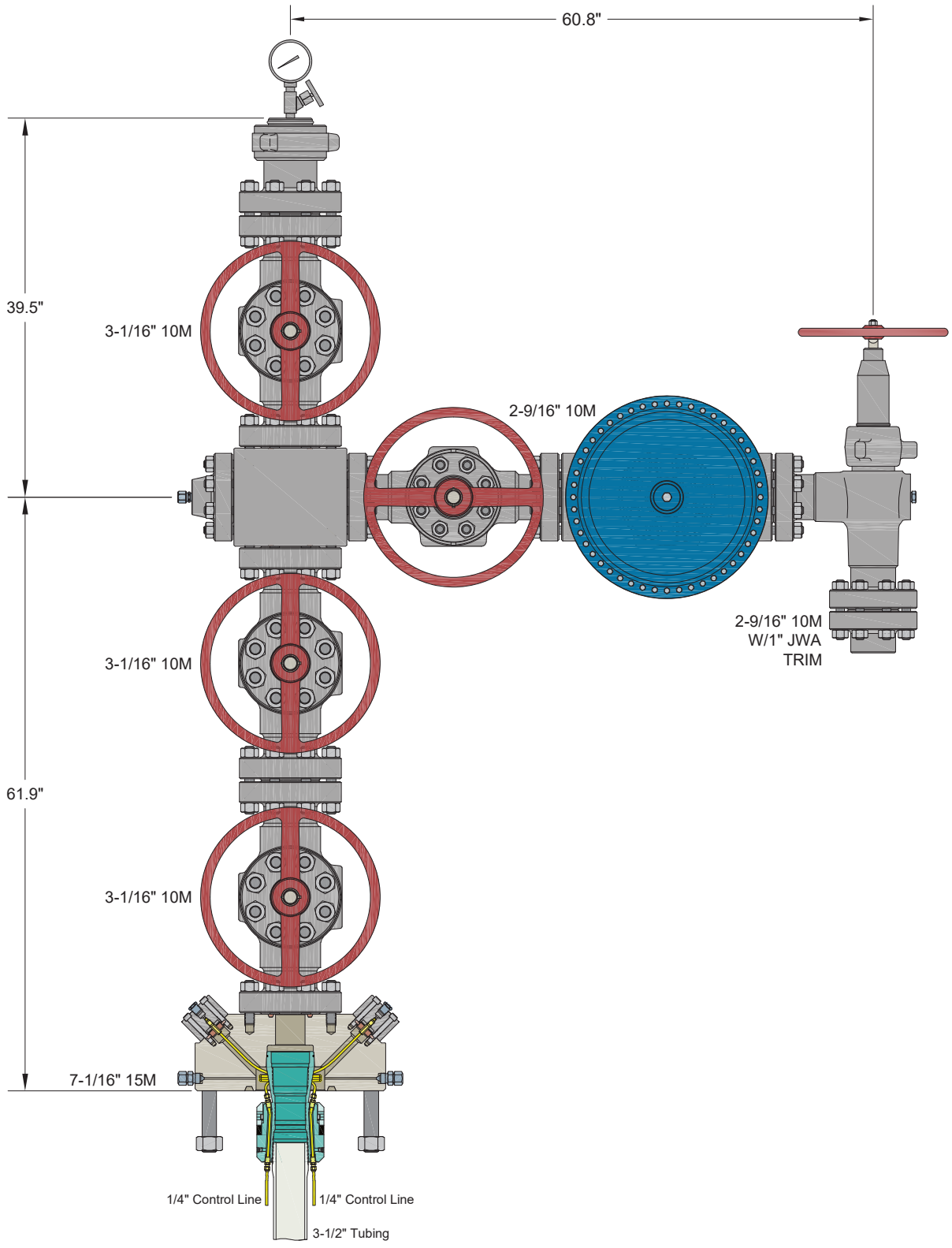
LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE



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ALL DIMENSIONS APPROXIMATE

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



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ALL DIMENSIONS APPROXIMAT

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

Bill To: 7050

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

Ship To: 1016

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

	Quantity	Price	Ext Price

CIMAREX

HOBBS, NM

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

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - $49,338.02

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

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

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

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

Cactus

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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.

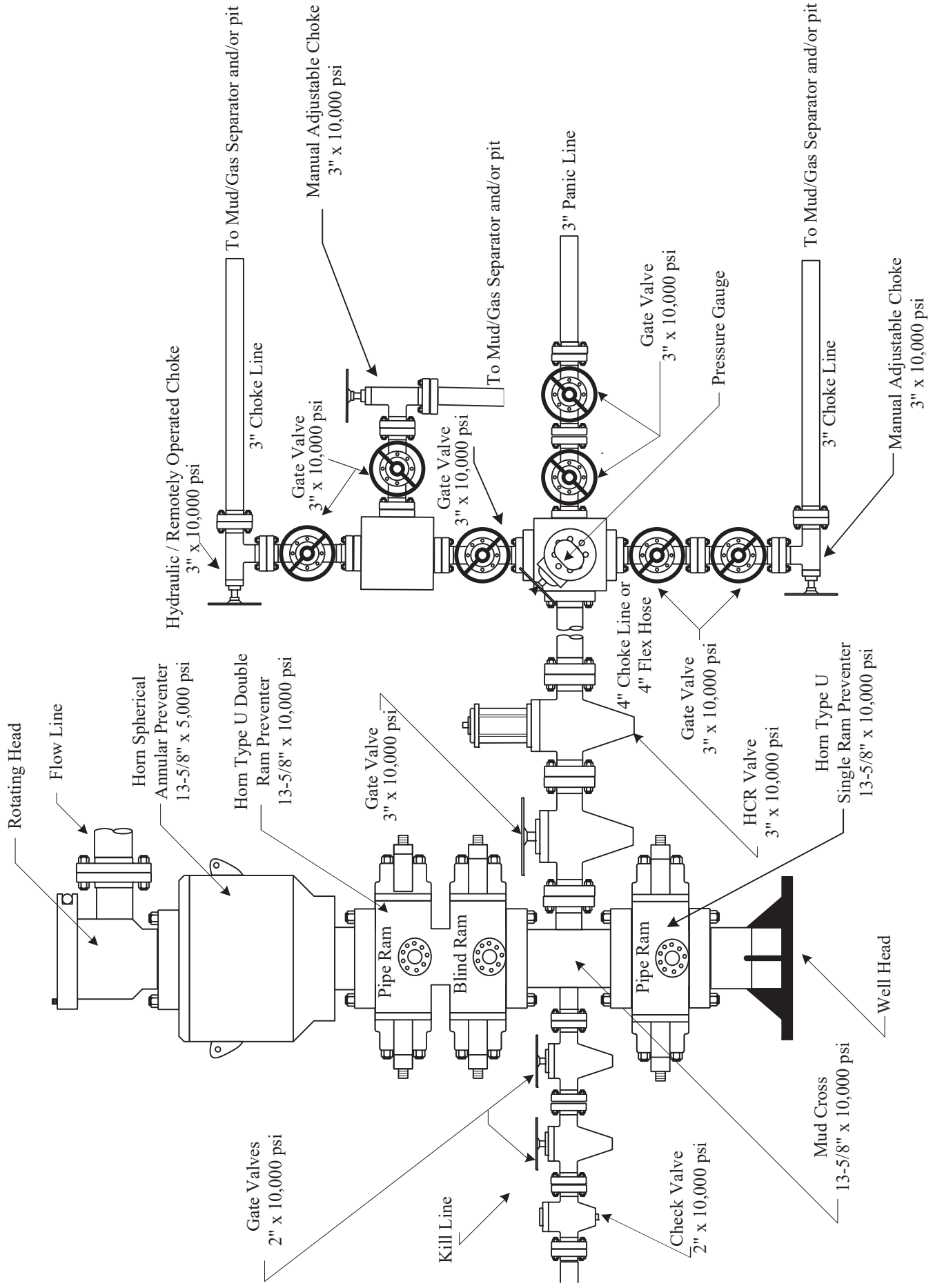
Variance Request #3: Omit the DV Tool from the Intermediate Casing

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.

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

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

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

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

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

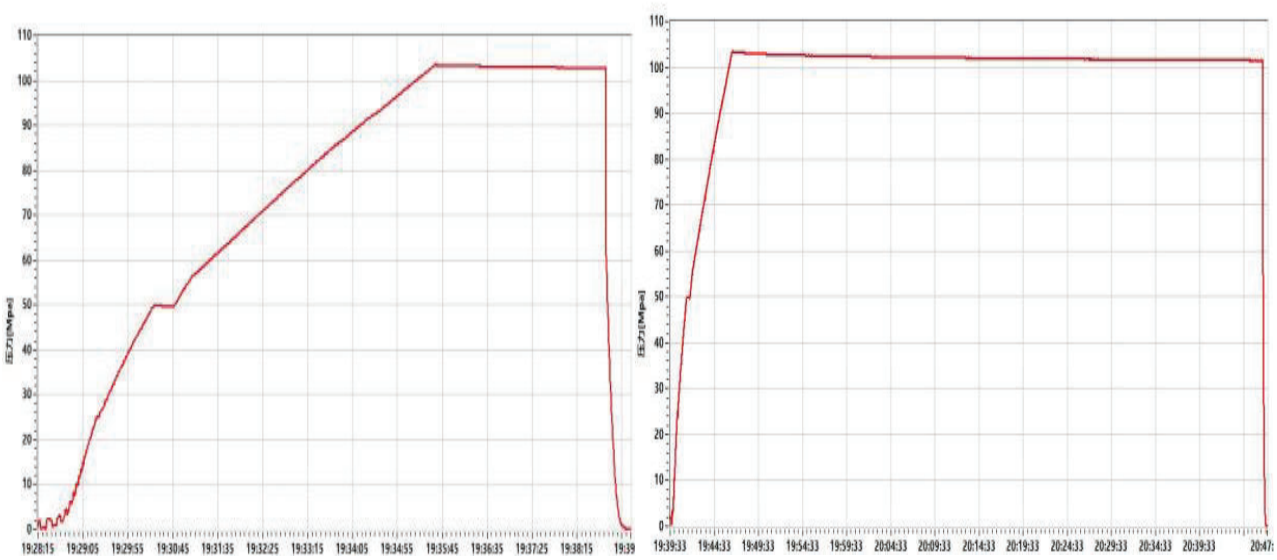
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

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

Graph of pressure testing：



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

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

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

Serial Number：VTC-7660257

customer number：PO890145-001

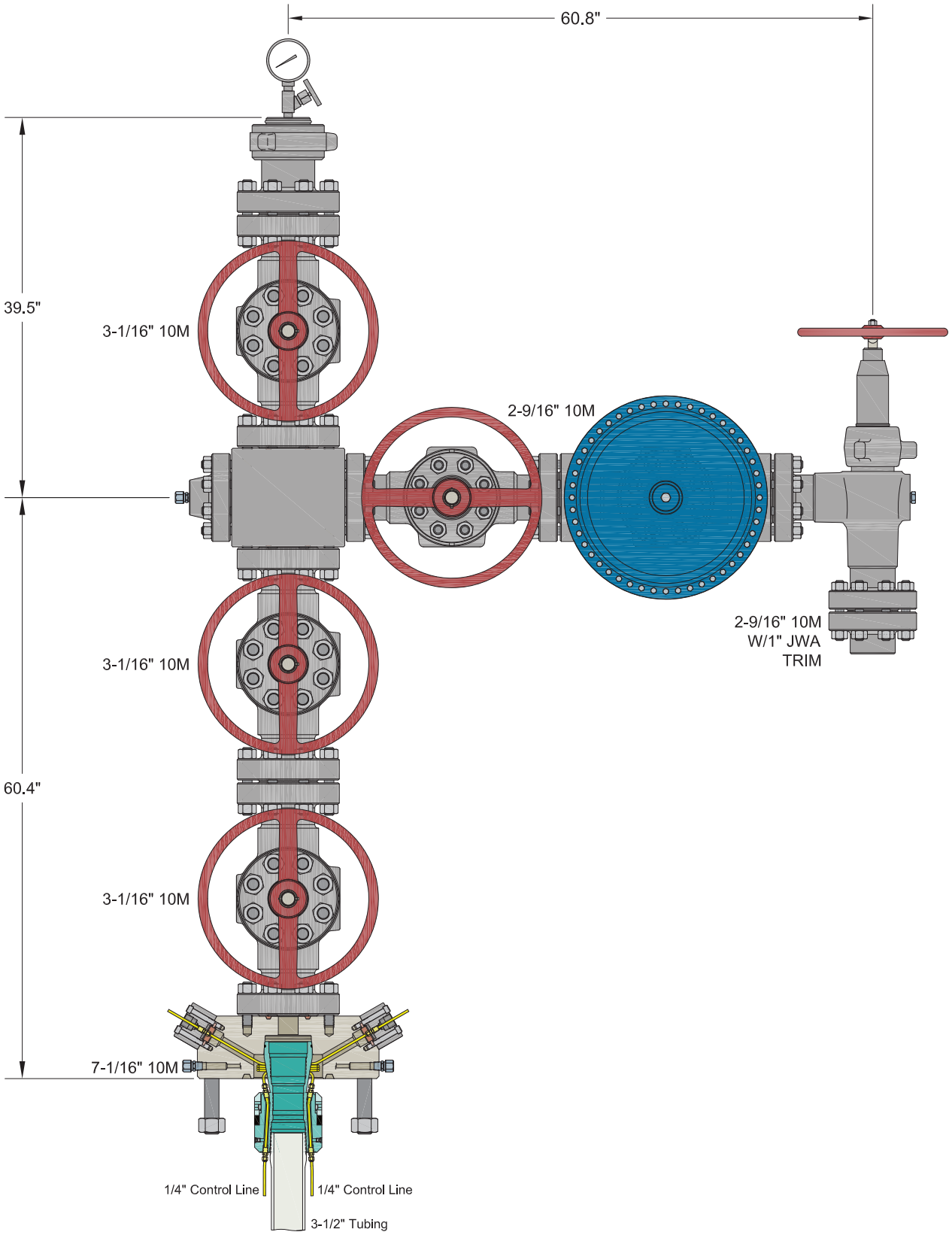
End Connections: 4-1/16″×10000psi Integral flange for sour gas service

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

QC Manager： Jane C Date:Sep 3, 2024

16C-0403

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE



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ALL DIMENSIONS APPROXIMATE

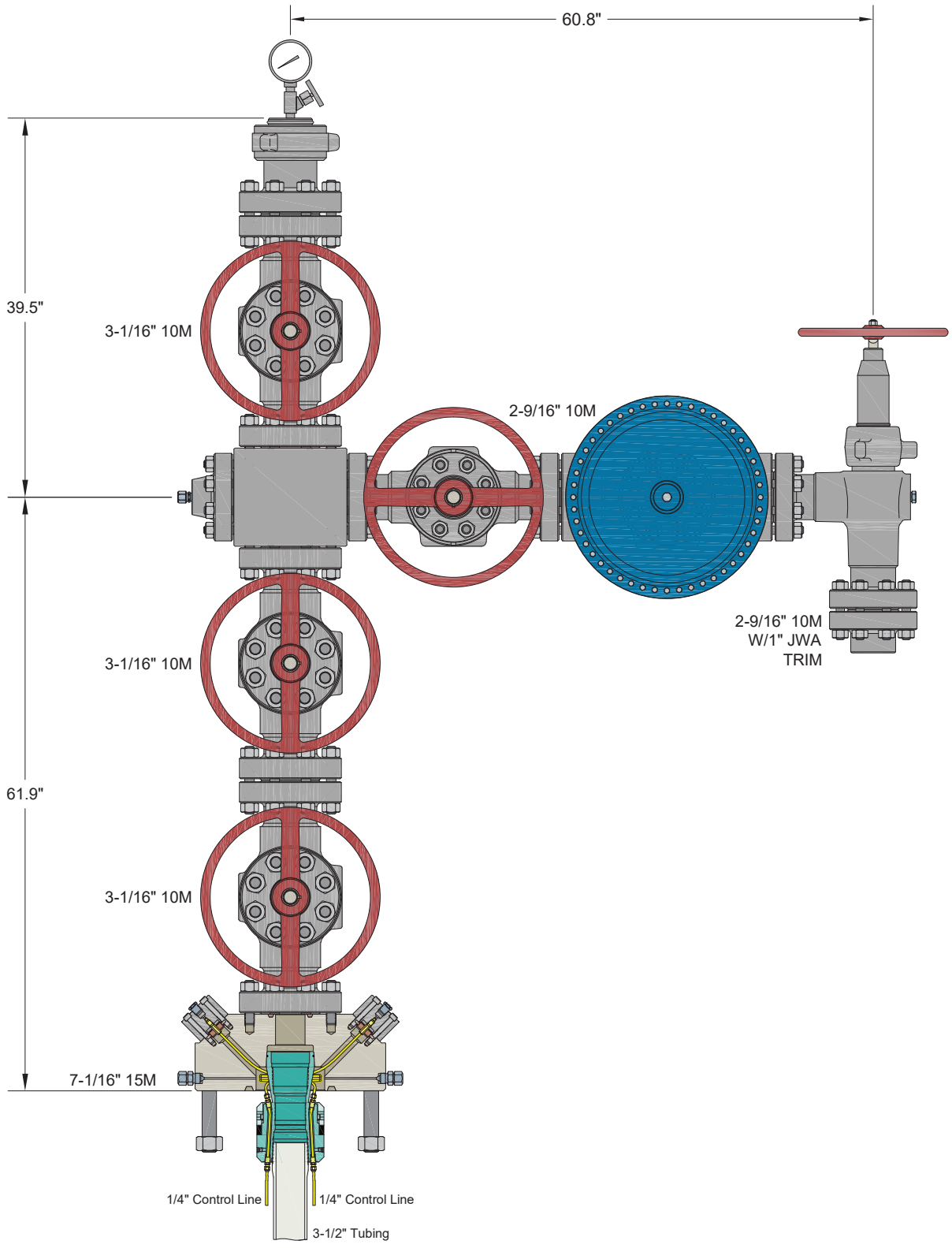
CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

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

DRAWN	VJK	05SEP23
APPRV		

DRAWING NO. HBE0001018



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ALL DIMENSIONS APPROXIMAT

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

Bill To: 7050

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

Ship To: 1016

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

	Quantity	Price	Ext Price

CIMAREX

HOBBS, NM

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

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - $49,338.02

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

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

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

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

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

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Hobbs NM 88240
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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

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

Received by OCD: 11/21/2025 2:42:16 PM

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. **RISK OF LOSS**.

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

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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.

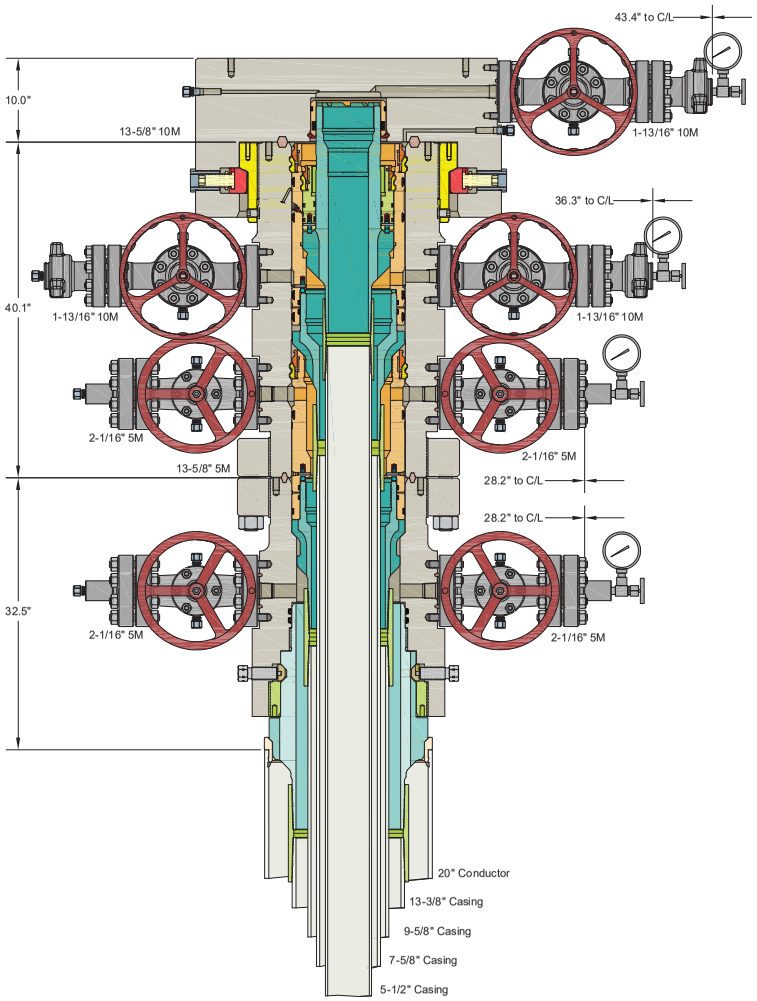
22. **FORCE MAJEURE**. If Company is unable to carry out its obligations hereunder by reason of force majeure, then upon Company's giving of notice and reasonably full particulars of such force majeure in writing to Customer, Company's obligations that are affected by force majeure shall be suspended 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.

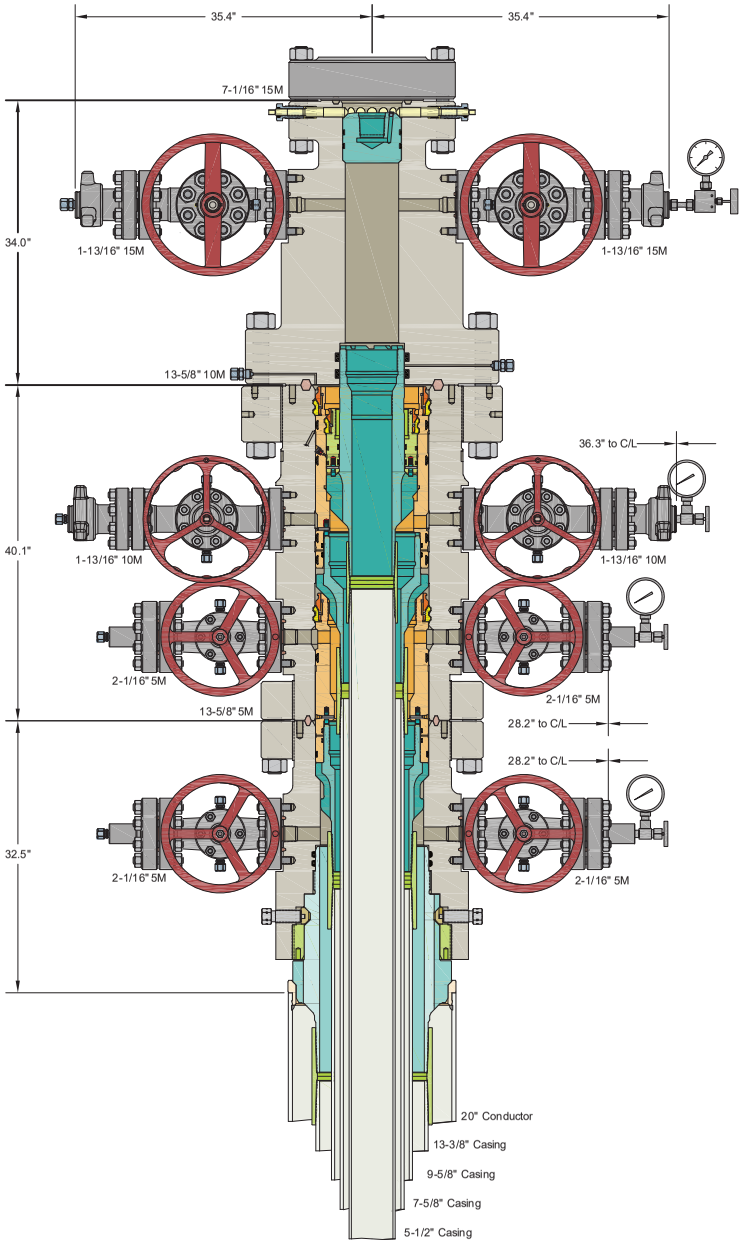
23. **CONFIDENTIALITY**. Customer acknowledges the highly secret and valuable nature of all proprietary inventions, methods, processes, designs, know-how, and trade secrets embodied in the Company's equipment, Products and Services and its components (hereinafter referred to as "Confidential Data"). 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 7-5/8" x 5-1/2" 10M MBU-4T-CFL
Wellhead Sys. With 7-5/8" And 5-1/2" Mandrel Casing Hangers
And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head

DRAWN	VJK	01NOV23
APPRV		

DRAWING NO. HBE0001077

Cactus

Quotation

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

Quote Number : HBE0001077

Date: 11/09/2023

Valid For 30 Days

Bill To: 7050

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

Ship To: 0

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

	Quantity	Price	Ext Price

CIMAREX
ANDREW ARGUIJO

HOBBS, NM

MBU-4T-CFL SAFEDRILL® WELLHEAD ASSEMBLY
20" X 13-3/8" X 9-5/8" X 7-5/8" X 5-1/2"

QUOTATION SUMMARY:

- LOWER MBU-4T CFL HSG ASSEMBLY - $13,011.10
- UPPER MBU-4T HSG ASSEMBLY - $20,646.53
- CASING HANGERS AND PACKOFFS - $22,298.00
- TUBING HEAD ASSEMBLY - $19,731.44

CACTUS CONTACT:
RILEY STAFFORD
OFFICE: 405.708.7217
MOBILE: 405.445.2222
EMAIL: riley.stafford@cactuswellhead.com

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

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

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

Cactus

Quotation

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

Quote Number : HBE0001077

Date: 11/09/2023

Valid For 30 Days

		Quantity	Price	Ext Price
	MBU-4T-LWR-CFL ASSEMBLY			
1	122608	1.00	9,202.10	9,202.10
	HSG,CW,MBU-4T-LWR-CFL-R-DBLO,13-3/8,13-5/8 5M THD FLG,W/2 2-1/16 5M FP,6A-PU-EE-1-2			
2	116444	1.00	1,250.00	1,250.00
	LANDING RING,20 X 3/8 WT CSG X 20.06 OD X 18.13 ID,4140 110K,950K MAX LOAD CAPACITY			
3	120676	1.00	0.00	0.00
	CSGHGR,CW,MBU-3T-CFL-R,13-3/8,13-3/8 (48#) STC PIN BTM X 14.000-2 STUB ACME-2G LEFT HAND PIN TOP,12.589 MIN BORE,TEMP U,MATL AA,PSL1,PR1			
4	133772	2.00	895.00	1,790.00
	VLV,AOZE,GEN,M-EXP-FB,2-1/16 3/5M FE DD (6A LU DD PSL2 PR1) QPQ TRIM & 4130 STEM			
5	200002	2.00	120.00	240.00
	FLG,COMP,CW,2-1/16 5M X 2 LP,6A-KU-EE-1			
6	BP2T	2.00	42.48	84.96
	BULL PLUG,CW,2 LP X 1/2 NPT,API 6A DD			
7	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			
8	R24	4.00	8.82	35.28
	RING GASKET,R24,2-1/16 3/5M			
9	780067-20E1	16.00	14.70	235.20
	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			
10	NVA	1.00	55.58	55.58
	NEEDLE VALVE,MFA,1/2 10M			
11	PG5M	1.00	58.24	58.24
	PRESSURE GAUGE,5M,4-1/2 FACE,LIQUID FILLED,1/2 NPT			
				13,011.10
	MBU-4T-UPR ASSEMBLY			
12	122622P2	1.00	10,264.59	10,264.59
	HSG,CW,MBU-4T-UPR-SF,13-5/8 5M THD STD BTM X 13-5/8 10M THD FLG TOP,W/2 1-13/16 10M FP UPR & 2 2-1/16 5M FP LWR,W/O 13-5/8 10M THD FLG,6A-PU-EE-2-2			
13	110578	1.00	2,300.00	2,300.00
	FLG,THD,13-5/8 10M W/21.750-2 STUB ACME-2G L.H. BOX THD,31.00 OD,4130 75K & I/T @ -75 DEG F			
14	133772	2.00	895.00	1,790.00
	VLV,AOZE,GEN,M-EXP-FB,2-1/16 3/5M FE DD (6A LU DD PSL2 PR1) QPQ TRIM & 4130 STEM			
15	200002	2.00	120.00	240.00
	FLG,COMP,CW,2-1/16 5M X 2 LP,6A-KU-EE-1			

Cactus

Quotation

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

Quote Number : HBE0001077

Date: 11/09/2023

Valid For 30 Days

		Quantity	Price	Ext Price
16	BP2T	2.00	42.48	84.96
	BULL PLUG,CW,2 LP X 1/2 NPT,API 6A DD			
17	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			
18	R24	4.00	8.82	35.28
	RING GASKET,R24,2-1/16 3/5M			
19	780067-20E1	16.00	14.70	235.20
	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			
20	107412MV	2.00	1,850.00	3,700.00
	VLV,CW,SB100,1-13/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL2 PR2) QPQ TRIM, API 6A PR2 ANNEX F (BORE VENT HOLE)			
21	122007	2.00	685.00	1,370.00
	ADPT,CW,CFH,1-13/16 10M X 2 FIG 1502 X 1/2 NPT,NACE SVC,TEMP PU, PSL2			
22	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			
23	BX151	4.00	12.77	51.08
	RING GASKET,BX151,1-13/16 10/15/20M			
24	780080-20E1	16.00	9.13	146.08
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,3/4-10UNC X 5-1/2,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING			
25	NVA	2.00	55.58	111.16
	NEEDLE VALVE,MFA,1/2 10M			
26	PG5M	1.00	58.24	58.24
	PRESSURE GAUGE,5M,4-1/2 FACE,LIQUID FILLED,1/2 NPT			
27	PG10M	1.00	58.24	58.24
	PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT			
28	BX160	1.00	82.22	82.22
	RING GASKET,BX160,13-5/8 5M			
				20,646.53

CASING HANGERS AND PACKOFFS

29	125699	1.00	2,830.00	2,830.00
	CSGHGR,CW,MBU-3T-LWR,FLUTED,13-5/8 X 9-5/8 (36#) LC PIN BTM X 10.250-4 STUB ACME-2G L.H BOX TOP,W/11-1/2 OD NECK,4140 110K,TEMP U,MATL AA,PSL1,PR2 (1430K MAX LOAD CAPACITY ON NECK & 2420K MAX SHOULDER LOAD CAPACITY ON 75K HEAD)			
30	124176	1.00	3,149.00	3,149.00
	PACKOFF,CW,MBU-4T-LWR,MANDREL,13-5/8 STACK,W/10.500-4 STUB ACME-2G LH BOX TOP,4140 110K,STD SVC,NON-NACE			

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		Quantity	Price	Ext Price
31	NPN-WHD	1.00	6,999.00	6,999.00
	CSGHGR,CW,MBU-4T-MID-TP8,FLUTED,13-5/8 X 7-5/8 (29.7#) VAM SPRINT-FJ PIN BTM X 10.250-4 STUB ACME-2G RIGHT HAND BOX TOP,W/11-1/2 OD NECK,4140 125K,TEMP U,MATL AA,PSL2,PR2 (REF PN 138329)			
32	NPN-WHD	0.00	12,150.00	0.00
	RUN TOOL,CW,CSGHGR,TP8,13-5/8 X 7-5/8 (29.7#) VAM SPRINT-FJ BOX TOP,10.250-4 STUB ACME-2G RIGHT HAND PIN BTM,MAX LOAD CAPACITY 1150K,MAX TORQUE 48000FT-LBS,SPEC FOR ROTATING CASING STRING,4140 125K (REF PN 138328)			
	NOTE: MAX CASING CONNECTION TORQUE PER THREADERS SPEC			
33	NPN-WHD	0.00	8,890.00	0.00
	RUN TOOL,CW,CSGHGR,TP8,13-5/8 X 7-5/8 (29.7#) VAM SPRINT-FJ BOX TOP,10.250-4 STUB ACME-2G RIGHT HAND PIN BTM,MAX LOAD CAPACITY 1150K,MAX TORQUE 48000FT-LBS,SPEC FOR ROTATING CASING STRING,4140 125K (REF PN 138328)			
	NOTE: MAX CASING CONNECTION TORQUE PER THREADERS SPEC			
	NOTE: OPTIONAL SUPPLY CHAIN PRICING; NOT INCLUDED IN TOTAL PRICE			
34	130570	1.00	3,420.00	3,420.00
	PACKOFF,CW,MBU-3T,MANDREL,13-5/8 NESTED X 11,W/11.250-4 STUB ACME-2G LH BOX TOP W/RUPTURE DISK & DEEPER GALLERY,4140 110K,STD SVC,NON-NACE			
35	119461P3	1.00	3,950.00	3,950.00
	CSGHGR,CW,MBU-3T-TP8-UPR,SN,7-5/8,FLUTED,11 NESTED X 5-1/2 (23#) BC PIN BTM X 6.125-4 STUB ACME-2G RIGHT HAND BOX TOP & 5 HBPV THD,SPEC FOR ROTATING CASING STRING,TEMP TEMP U,MATL AA,PSL3,PR2			
36	115867	1.00	1,950.00	1,950.00
	PACKOFF,CW,CTF-MBU-3T,11,A/F 7.75 SEAL PREP,W/8.750-4 STUB ACME-2G LH BOX TOP,A/F LANDING ON 45 DEG SHOULDER ON HANGER,4130 80K,NACE SVC,PSL2			
				22,298.00

RENTAL TOOLS

37	23D	4T-CFL DT 13-3/8X9-5/8X7-5/8X5-1/2 MAN	0.00	1,850.00	0.00

MBU-4T-CFL RENTAL TOOLS = $1,850.00 PER WELL FOR THE FIRST 45 DAYS; $100.00 PER DAY THEREAFTER

RENTAL TOOLS INCLUDE THE FOLLOWING ITEMS:

PN 119126: LIFT RING,CSGHGR,CFL-R,W/14.000-2 STUB ACME-2G LEFT HAND THDS,4140 110K

PN 120685:RUN TOOL,CW,CSGHGR,MBU-3T-CFL-R,13-3/8 STC BOX TOP X 14.000-2 STUB ACME-2G LH BOX LANDING THD,12.60 MIN BORE

PN 118178: TORQUE COLLAR,CW,CSGHGR,MBU-3T-CFL-R,F/16 NECK,4140 110K

PN 116972: COMB TEST PLUG/RET TOOL,CW,MBU-3T,13-5/8 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS & SPRING LOADED DOGS

PN 126048: WBUSH,CW,MBU-4T-LWR,13-5/8 X 12.31 MIN BORE X 50.0 LG,W/12.489 ID FROM TOP TO 3.0 FROM BTM,W/3/8 UPR ORING

PN 100943: RUN TOOL,CW,CSGHGR,MBU-LR,13-5/8 X 9-5/8 LC,W/10.250-4 STUB ACME-2G LH PIN

Cactus

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PN 118906:TORQUE COLLAR,CW,F/USE W RUN TOOL,TP,10.250-4 STUB ACME-2G RIGHT HAND PIN BTM AND A/F 11.50 OD X 5.00 LG BOX HGR NECK,MAXIMUM TORQUE 48000 LBF-FT

PN 106277: WASH TOOL,CW,MBU-3T-LR,MBS2 & FLUTED,13-5/8 X 4-1/2 IF (NC50) BOX TOP THD,W/BRUSHES

PN 122647: RUN TOOL,CW,PACKOFF,MBU-4T-LWR,13-5/8 STACK,W/10.500-4 STUB ACME-2G LEFT HAND PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/BALL BEARINGS

PN 123523: WBUSH,CW,MBU-4T-MID,STACK,13-5/8 X 9.00 ID X 28.0 LG

PN 116996: RUN TOOL,CW,PACKOFF,MBU-3T-UPR,13-5/8 STACK,W/11.250-4 STUB ACME-2G LEFT HAND PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/BALL BEARINGS

PN 125190: TEST PLUG,CW,MBU-3T INNER,11 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS

PN 123959: WBUSH,CW,MBU-3T(-ONE),UPR,NESTED,13-5/8 X 11 X 7.00 ID X 20.0 LG,A/F 13-5/8 RET TOOL,W/1/4 DRILL HOLES

PN 111379: RUN TOOL,CW,CSGHGR,TP8,6.125-4 STUB ACME-2G RIGHT HAND PIN BTM X 5-1/2 BC BOX TOP,W/4.955 MIN BORE & MAX LOAD CAPACITY 500K W/110K CSGHGR & 375K W/80K CSGHGR,MAX TORQUE 33000FT-LBS,SPEC FOR ROTATING CASING STRING

NOTE:MAX CASING CONNECTION TORQUE PER THREADERS SPEC

PN 117319: TORQUE COLLAR,CW,CSGHGR,F/USE W/7.62 OD X 15.38 LG BOX HGR NECK AND 10.83 OD RUNNING TOOL,MAXIMUM TORQUE 35000 LBF-FT

PN 103164: WASH TOOL,CW,CSGHGR,MBU-2LR/MBS2-R (3T),FLUTED,11 X 4-1/2 IF (NC50) BOX TOP THDS,FAB

PM 117306: RUN TOOL,CW,PACKOFF,MBU-3T-SN,7-5/8,W/8.750-4 STUB ACME-2G LEFT HAND PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/BALL BEARINGS

PN 116240: SUB,CROSSOVER,CW,5 HBPV PIN THD BTM X 4-1/2 IF (NC50) BOX TOP,18.0 LG,4140 110K

NOTE: CUSTOMER RESPONSIBLE FOR REPAIRS AND LOST, DAMAGED, OR BEYOND REPAIR RENTAL TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.

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38	W4	TEST PLUG	0.00	500.00	0.00

CACTUS TEST PLUG RENTAL PACKAGE = $500.00 PER WELL FOR THE FIRST 45 DAYS; $30.00 PER DAY THEREAFTER

RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:

PN 133846:TEST PLUG,CW,13-5/8 X 4-1/2 IF (NC50) PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/1-1/4" LP BYPASS X 11.500-4 STUB ACME-2G,A/F MBU-4T-UPR,13-5/8,2PC

PN 123926: SUB,DARCO,4-1/2 IF (NC50) PIN X 4-1/2 IF (NC50) PIN,18 LG (THREADS ON),4140 110K

NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED, OR BEYOND REPAIR RENTAL EQUIPMENT. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.

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0.00

Cactus

Quotation

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

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			Quantity	Price	Ext Price

CQC DRILLING ADAPTER

39	8Q	13 10M X 13 10M CQC ADPT (45D)	0.00	1,700.00	0.00

CACTUS QUICK CONNECT RENTAL PACKAGE - $1,700.00 PER WELL FOR 45 DAYS; $75.00 PER DAY THEREAFTER

RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:

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

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

NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED OR BEYOND REPAIR RENTAL EQUIPMENT. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. ACCESSORIES FOR ASSEMBLY ARE NOT INCLUDED IN RENTAL RATE.

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0.00

CQC TA CAP

40	7T	13 10M CQC TA CAP (90D)	0.00	1,300.00	0.00

CACTUS TA CAP RENTAL = $1300.00 PER WELL FOR THE FIRST 90 DAYS OF RENTAL; A CHARGE OF $55.00 PER DAY WILL BE INCURRED, THERAFTER THE 90 DAYS OF RENTAL IS COMPLETE.

RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:

PN 117347: TA CAP,CW,MBU-3T-HPS,9,13-5/8 10M QUICK CONNECT,W/ONE 1-13/16 10M FP,VR THD & 1/2 NPT PORT,6A-U-AA-1-1

PN 108466: SECSEAL,CW,TA-HPS,9 X 7-5/8 X 4.31 LG,W/7.731 BORE,6A-U-AA-1-1

NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED, OR BEYOND REPAIR RENTAL EQUIPMENT. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.

0.00

MBU-3T -OLC -7-5/8 CEM TOOL & PLUG

41	17O	MBU-3T -OLC -7-5/8 CEM TOOL & PLUG (45D)	0.00	850.00	0.00

7-5/8" OFFLINE CEMENTING RENTAL PACKAGE (4T) = $850.00 PER WELL

RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:

PN 133817: CEMENT TOOL,CW,CSGHGR/PACKOFF,MBU-3T-LWR OLC,NESTED,7-5/8 BC PIN TOP,W/11.250-4 STUB ACME-2G LH PIN THD HOLD DOWN RING,6.964 MIN BORE,5000 PSI MAX WP,4140 125K

PN 124993: CIRCULATION PLUG,CW,CTF/MBU-3T,11 NOM,W/ONE WAY 3 HBPV,6A-U-AA-1-1

PN 107010: RUN TOOL,CW,PACKOFF,MBU-LR-LWR,11 X 3-1/2 IF (NC38) BTM & TOP,W/7.500-4 STUB ACME-2G LH PIN BTM

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		Quantity	Price	Ext Price
	NOTE: CUSTOMER RESPONSIBLE FOR LOST OR DAMAGE BEYOND REPAIR TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.			
				0.00
	TUBING HEAD ASSEMBLY			
42	126002-21MG	1.00	10,622.00	10,622.00
	TBGHD,CW,CTH-DBLHPS-SB,7-5/8,13-5/8 10M X 7-1/16 15M,W/2 1-13/16 15M FP,W/6.375 MIN BORE & 17-4PH LDS,34.0 LG,216A-PU-EE-0,5-3-2			
43	113880MV	2.00	2,590.00	5,180.00
	VLV,CW,SB100,1-13/16 15M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR2F) QPQ TRIM, API 6A PR2 ANNEX F (BORE VENT HOLE)			
44	117166	2.00	750.00	1,500.00
	ADPT,CW,CFH,1-13/16 15M X 2 FIG 1502 X 9/16 AUTOCLAVE,NON-NACE,STD SVC,15,000PSI MAX WP,STD SVC,NON-NACE,PSL2			
45	101309	1.00	144.00	144.00
	FTG,GRS,VENTED CAP,9/16 AUTOCLAVE,4140 -50F W/ELECTROLESS NICKEL COATING NACE,316SS VENT CAP,INCONEL X-750 SPRING & TUNGSTEN CARBIDE BALL			
46	BX151	4.00	12.77	51.08
	RING GASKET,BX151,1-13/16 10/15/20M			
47	105477-20E1	16.00	9.76	156.16
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,7/8-9UNC X 6,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING			
48	BX159	1.00	117.60	117.60
	RING GASKET,BX159,13-5/8 10/15/20M			
49	102825-20E1	20.00	67.63	1,352.60
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,1-7/8-8UN X 17-3/4,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING			
50	810023	1.00	289.00	289.00
	NEEDLE VALVE,2 WAY ANGLE,9/16,20KSI,SOUR SERVICE,W/O COLLARS & GLANDS			
51	106012	1.00	120.00	120.00
	ADPT,AUTOCLAVE,HIGH PRESSURE, 9/16 MALE TO 9/16 MALE,316SS,SOUR SERVICE			
52	PG15M	1.00	199.00	199.00
	PRESSURE GAUGE,15M,9/16 AUTOCLAVE,LIQUID FILLED			
				19,731.44
	CONTINGENCY EQUIPMENT			
53	100586	0.00	1,300.00	0.00
	CSGHGR,C21,13-5/8 X 9-5/8			
54	123962	0.00	1,176.00	0.00
	PRISEAL,CW,H,13-5/8 X 9-5/8,5000 PSI MAX WP,6A-U-AA-1-1			
55	123821P2	0.00	15,765.00	0.00
	HSG,CW,MBU-4T-DBLHPS-UPR-SF,9-5/8,13-5/8 5M THD STD BTM X 13-5/8 10M THD FLG TOP,W/2 1-13/16 10M FP UPR & 2 2-1/16 5M FP LWR,TEMP PU,MATL EE,PSL2,PR2			

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56	122659	0.00	1,526.00	0.00
	CSGHGR,CW,MBU-4T-MID,EMERG,13-5/8 X 7-5/8,TEMP PU,MATL DD,PSL3,PR1			
57	120920	0.00	3,885.00	0.00
	PACKOFF,CW,MBU-3T,EMERG,13-5/8 NESTED X 11 X 7-5/8,W/11.250-4 STUB ACME-2G LH BOX TOP W/RUPTURE DISK,TEMP U,STD SVC,NON-NACE			
58	128165	0.00	3,650.00	0.00
	CSGHGR,CW,MBU-4T-TP8-UPR,SN,7-5/8,FLUTED,11 NESTED X 5-1/2 (23#) BC PIN BTM X 6.125-4 STUB ACME-2G RIGHT HAND BOX TOP & 5 HBPV THD,SPEC FOR ROTATING CASING STRING,4140 125K,6A-U-AA-1-2			
	NOTE: FOR USE WHEN EMERGENCIES ARE SET ON 7-5/8"			
59	108211	0.00	1,575.00	0.00
	CSGHGR,CW,MBU-3T,UPR/MBU-2LR,UPR,11 X 5-1/2,6A-PU-DD-3-2			
60	117298	0.00	1,800.00	0.00
	PACKOFF,CW,MBU-3T,INNER,EMERG,NESTED,11 X 5-1/2,W/7-5/8 SEAL NECK,5 HBPV THDS & 4.93 MIN BORE,A/F HOLD DOWN RING,4130 75K,NACE SVC			
61	104726	0.00	550.00	0.00
	HOLD DOWN,RING,F/22 CSGHGR 11 X 5-1/2,A/F PACKOFF MBU-LR,13-5/8 10M,W/11.250-4 STUB ACME-2G LH PIN X 8.00 ID X 2.62 LG,4140 110K			
				0.00

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

Matl:	75,687.07
Labor:	0.00
Misc:	0.00
Sales Tax:	0.00
Total:	75,687.07

Cactus

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CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. **RISK OF LOSS**.

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

Cactus

Quotation

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

Quote Number : HBE0001077

Date: 11/09/2023

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.

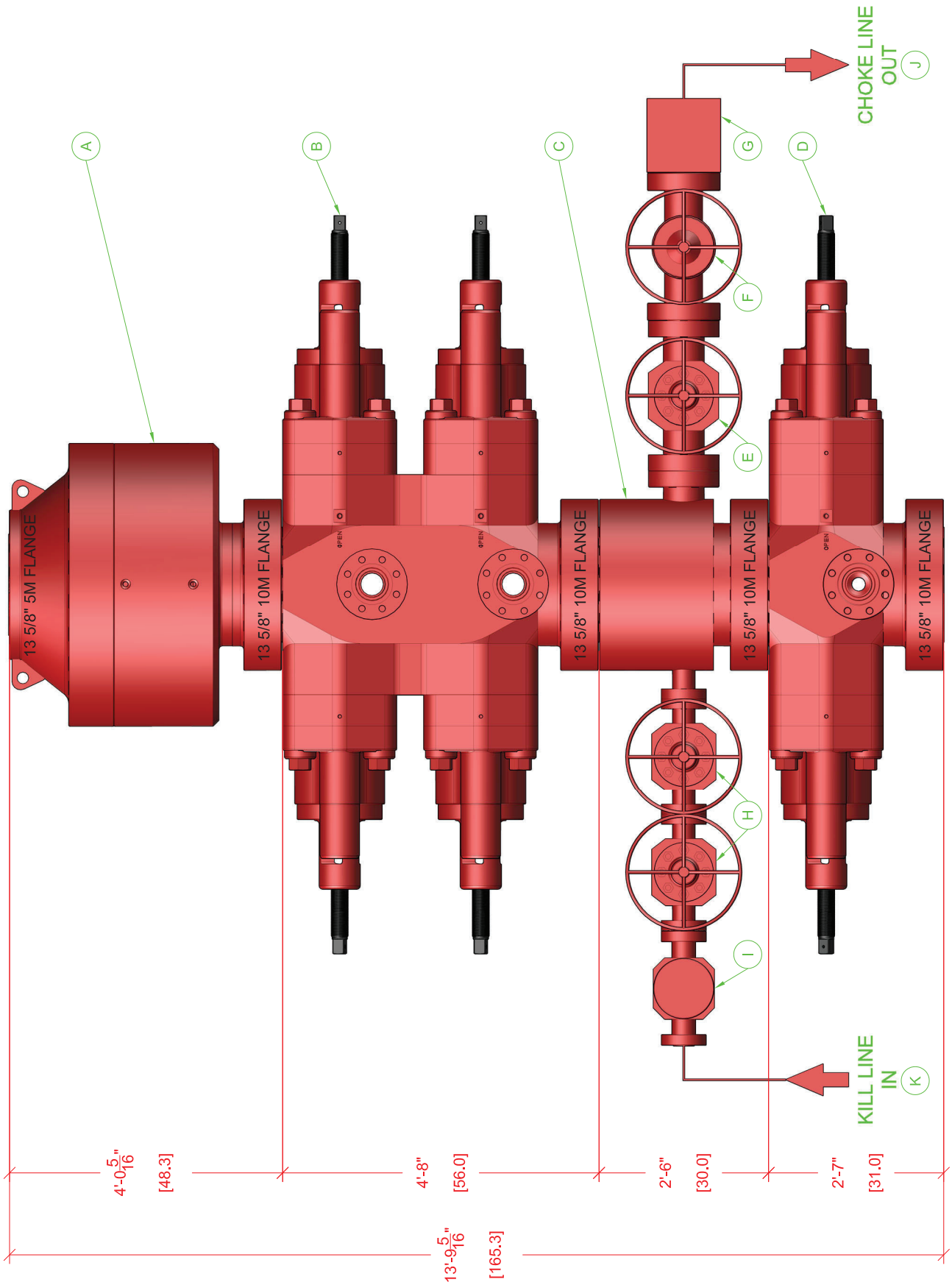
20. **CHOICE OF LAW**. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF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

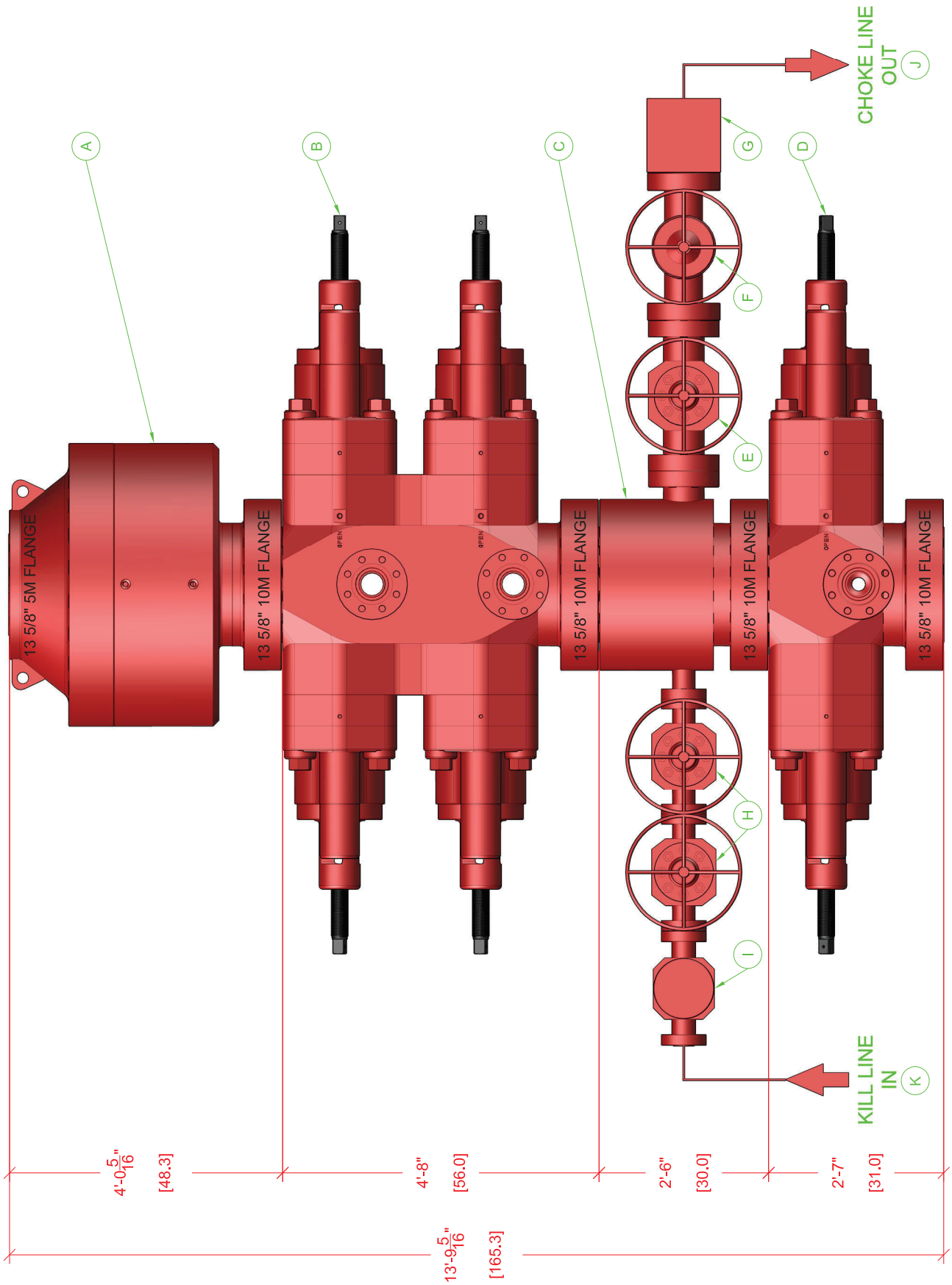
24. **COMPLIANCE**. Customer expressly agrees to comply with and abide by, all of the laws of the United States and of the State of Texas, including, but not limited to, OSHA, EPA and all rules and regulations now existing or that may be hereafter promulgated under and in accordance with any such law 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.



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			



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L			

1. Geological Formations

TVD of target 8,289
MD at TD 19,101

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	
2nd Bone Spring Sand	7994	Hydrocarbons	
2nd Bone Spring Sand - Target	8289	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	7903	7903							
8 3/4	7903	19101	8289	5-1/2"	20.00	P-110	BT&C	2.71	3.02	83.03
					BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

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

H2S Drilling Operations Plan

Training

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

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

H2S Detection and Alarm Systems

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

Windsock and/or wind streamers

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

Condition Flags & Signs

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

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

Well Control Equipment

1. See the pressure control section of this submission.

Communication

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

Drillstem Testing

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

H2S Contingency Plan

Emergency Procedures

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

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

Ignition of the Gas Source

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

Contacting Authorities

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

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

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 3H

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 3H
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 3H	**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 3H

Well Position	**+N/-S**	0.00 usft	**Northing:**	414,092.74 usft	**Latitude:**	32.1381257
	+E/-W	0.00 usft	**Easting:**	625,786.84 usft	**Longitude:**	-104.0604962
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	19,100.64	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 3H
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 3H	**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	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,491.84	13.84	104.72	2,485.13	-21.13	80.40	2.00	2.00	15.14	104.72	
7,902.86	13.84	104.72	7,739.13	-350.00	1,332.00	0.00	0.00	0.00	0.00	
8,621.67	75.00	179.75	8,249.95	-776.46	1,429.83	10.00	8.51	10.44	79.06	
8,921.67	90.00	179.75	8,289.00	-1,073.04	1,431.13	5.00	5.00	0.00	-0.01	
12,688.51	90.00	179.75	8,289.00	-4,839.84	1,447.82	0.00	0.00	0.00	0.00	
14,530.51	90.00	6.23	8,289.00	-4,903.15	2,660.69	9.42	0.00	-9.42	-90.00	
14,762.01	90.00	359.75	8,289.00	-4,672.08	2,672.76	2.80	0.00	-2.80	-90.00	
19,101.33	90.00	359.75	8,289.00	-332.80	2,653.72	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	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
1,091.00	0.00	0.00	1,091.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
Rustler													
1,100.00	0.00	0.00	1,100.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
1,570.00	0.00	0.00	1,570.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
Top Salt													
1,600.00	0.00	0.00	1,600.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	414,092.74	625,786.84	32.1381257	-104.0604962	0.00	0.00	0.00	0.00
1,900.00	2.00	104.72	1,899.98	-0.44	1.69	414,092.30	625,788.53	32.1381244	-104.0604908	0.45	2.00	2.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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)
2,000.00	4.00	104.72	1,999.84	-1.77	6.75	414,090.97	625,793.59	32.1381207	-104.0604745	1.80	2.00	2.00	0.00
2,100.00	6.00	104.72	2,099.45	-3.99	15.18	414,088.75	625,802.02	32.1381146	-104.0604472	4.05	2.00	2.00	0.00
2,200.00	8.00	104.72	2,198.70	-7.09	26.96	414,085.65	625,813.80	32.1381060	-104.0604092	7.20	2.00	2.00	0.00
2,300.00	10.00	104.72	2,297.47	-11.06	42.09	414,081.68	625,828.93	32.1380950	-104.0603603	11.24	2.00	2.00	0.00
2,365.67	11.31	104.72	2,362.00	-14.15	53.84	414,078.59	625,840.68	32.1380864	-104.0603224	14.38	2.00	2.00	0.00
Base Salt/Lamar													
2,400.00	12.00	104.72	2,395.62	-15.91	60.55	414,076.83	625,847.39	32.1380815	-104.0603008	16.17	2.00	2.00	0.00
2,491.84	13.84	104.72	2,485.13	-21.13	80.40	414,071.61	625,867.24	32.1380670	-104.0602366	21.48	2.00	2.00	0.00
2,500.00	13.84	104.72	2,493.06	-21.62	82.29	414,071.12	625,869.13	32.1380657	-104.0602306	21.98	0.00	0.00	0.00
2,558.64	13.84	104.72	2,550.00	-25.19	95.86	414,067.55	625,882.70	32.1380558	-104.0601868	25.61	0.00	0.00	0.00
Top Delaware Sands/Bell Canyon													
2,600.00	13.84	104.72	2,590.16	-27.70	105.42	414,065.04	625,892.26	32.1380488	-104.0601559	28.16	0.00	0.00	0.00
2,700.00	13.84	104.72	2,687.25	-33.78	128.55	414,058.96	625,915.39	32.1380319	-104.0600812	34.34	0.00	0.00	0.00
2,800.00	13.84	104.72	2,784.35	-39.86	151.68	414,052.88	625,938.52	32.1380150	-104.0600065	40.52	0.00	0.00	0.00
2,900.00	13.84	104.72	2,881.45	-45.93	174.81	414,046.81	625,961.65	32.1379982	-104.0599318	46.70	0.00	0.00	0.00
3,000.00	13.84	104.72	2,978.55	-52.01	197.94	414,040.73	625,984.78	32.1379813	-104.0598572	52.88	0.00	0.00	0.00
3,100.00	13.84	104.72	3,075.65	-58.09	221.07	414,034.65	626,007.91	32.1379644	-104.0597825	59.05	0.00	0.00	0.00
3,200.00	13.84	104.72	3,172.74	-64.17	244.21	414,028.57	626,031.05	32.1379476	-104.0597078	65.23	0.00	0.00	0.00
3,300.00	13.84	104.72	3,269.84	-70.25	267.34	414,022.49	626,054.18	32.1379307	-104.0596331	71.41	0.00	0.00	0.00
3,400.00	13.84	104.72	3,366.94	-76.32	290.47	414,016.42	626,077.31	32.1379138	-104.0595584	77.59	0.00	0.00	0.00
3,459.79	13.84	104.72	3,425.00	-79.96	304.30	414,012.78	626,091.14	32.1379037	-104.0595138	81.28	0.00	0.00	0.00
Cherry Canyon													
3,500.00	13.84	104.72	3,464.04	-82.40	313.60	414,010.34	626,100.44	32.1378970	-104.0594838	83.77	0.00	0.00	0.00
3,600.00	13.84	104.72	3,561.14	-88.48	336.73	414,004.26	626,123.57	32.1378801	-104.0594091	89.95	0.00	0.00	0.00
3,700.00	13.84	104.72	3,658.24	-94.56	359.86	413,998.18	626,146.70	32.1378632	-104.0593344	96.13	0.00	0.00	0.00
3,800.00	13.84	104.72	3,755.33	-100.64	382.99	413,992.10	626,169.83	32.1378464	-104.0592597	102.31	0.00	0.00	0.00
3,900.00	13.84	104.72	3,852.43	-106.71	406.12	413,986.03	626,192.96	32.1378295	-104.0591851	108.48	0.00	0.00	0.00
4,000.00	13.84	104.72	3,949.53	-112.79	429.25	413,979.95	626,216.09	32.1378126	-104.0591104	114.66	0.00	0.00	0.00
4,100.00	13.84	104.72	4,046.63	-118.87	452.38	413,973.87	626,239.22	32.1377957	-104.0590357	120.84	0.00	0.00	0.00
4,200.00	13.84	104.72	4,143.73	-124.95	475.51	413,967.79	626,262.35	32.1377789	-104.0589610	127.02	0.00	0.00	0.00
4,300.00	13.84	104.72	4,240.82	-131.02	498.64	413,961.72	626,285.48	32.1377620	-104.0588863	133.20	0.00	0.00	0.00
4,400.00	13.84	104.72	4,337.92	-137.10	521.77	413,955.64	626,308.61	32.1377451	-104.0588117	139.38	0.00	0.00	0.00
4,500.00	13.84	104.72	4,435.02	-143.18	544.90	413,949.56	626,331.74	32.1377283	-104.0587370	145.56	0.00	0.00	0.00
4,600.00	13.84	104.72	4,532.12	-149.26	568.03	413,943.48	626,354.87	32.1377114	-104.0586623	151.73	0.00	0.00	0.00
4,700.00	13.84	104.72	4,629.22	-155.34	591.16	413,937.40	626,378.00	32.1376945	-104.0585876	157.91	0.00	0.00	0.00
4,800.00	13.84	104.72	4,726.31	-161.41	614.29	413,931.33	626,401.13	32.1376777	-104.0585129	164.09	0.00	0.00	0.00
4,800.71	13.84	104.72	4,727.00	-161.46	614.46	413,931.28	626,401.30	32.1376775	-104.0585124	164.14	0.00	0.00	0.00
Brushy Canyon													

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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)
4,900.00	13.84	104.72	4,823.41	-167.49	637.42	413,925.25	626,424.26	32.1376608	-104.0584383	170.27	0.00	0.00	0.00
5,000.00	13.84	104.72	4,920.51	-173.57	660.55	413,919.17	626,447.39	32.1376439	-104.0583636	176.45	0.00	0.00	0.00
5,100.00	13.84	104.72	5,017.61	-179.65	683.68	413,913.09	626,470.52	32.1376271	-104.0582889	182.63	0.00	0.00	0.00
5,200.00	13.84	104.72	5,114.71	-185.72	706.82	413,907.02	626,493.66	32.1376102	-104.0582142	188.81	0.00	0.00	0.00
5,300.00	13.84	104.72	5,211.80	-191.80	729.95	413,900.94	626,516.79	32.1375933	-104.0581396	194.99	0.00	0.00	0.00
5,400.00	13.84	104.72	5,308.90	-197.88	753.08	413,894.86	626,539.92	32.1375764	-104.0580649	201.16	0.00	0.00	0.00
5,500.00	13.84	104.72	5,406.00	-203.96	776.21	413,888.78	626,563.05	32.1375596	-104.0579902	207.34	0.00	0.00	0.00
5,600.00	13.84	104.72	5,503.10	-210.04	799.34	413,882.70	626,586.18	32.1375427	-104.0579155	213.52	0.00	0.00	0.00
5,700.00	13.84	104.72	5,600.20	-216.11	822.47	413,876.63	626,609.31	32.1375258	-104.0578408	219.70	0.00	0.00	0.00
5,771.89	13.84	104.72	5,670.00	-220.48	839.10	413,872.26	626,625.94	32.1375137	-104.0577872	224.14	0.00	0.00	0.00
Lower Brushy Canyon													
5,800.00	13.84	104.72	5,697.30	-222.19	845.60	413,870.55	626,632.44	32.1375090	-104.0577662	225.88	0.00	0.00	0.00
5,900.00	13.84	104.72	5,794.39	-228.27	868.73	413,864.47	626,655.57	32.1374921	-104.0576915	232.06	0.00	0.00	0.00
6,000.00	13.84	104.72	5,891.49	-234.35	891.86	413,858.39	626,678.70	32.1374752	-104.0576168	238.24	0.00	0.00	0.00
6,100.00	13.84	104.72	5,988.59	-240.43	914.99	413,852.31	626,701.83	32.1374584	-104.0575421	244.42	0.00	0.00	0.00
6,200.00	13.84	104.72	6,085.69	-246.50	938.12	413,846.24	626,724.96	32.1374415	-104.0574675	250.59	0.00	0.00	0.00
6,300.00	13.84	104.72	6,182.79	-252.58	961.25	413,840.16	626,748.09	32.1374246	-104.0573928	256.77	0.00	0.00	0.00
6,400.00	13.84	104.72	6,279.88	-258.66	984.38	413,834.08	626,771.22	32.1374077	-104.0573181	262.95	0.00	0.00	0.00
6,455.73	13.84	104.72	6,334.00	-262.05	997.27	413,830.69	626,784.11	32.1373983	-104.0572765	266.40	0.00	0.00	0.00
Bone Spring Lime													
6,500.00	13.84	104.72	6,376.98	-264.74	1,007.51	413,828.00	626,794.35	32.1373909	-104.0572434	269.13	0.00	0.00	0.00
6,600.00	13.84	104.72	6,474.08	-270.81	1,030.64	413,821.93	626,817.48	32.1373740	-104.0571687	275.31	0.00	0.00	0.00
6,700.00	13.84	104.72	6,571.18	-276.89	1,053.77	413,815.85	626,840.61	32.1373571	-104.0570941	281.49	0.00	0.00	0.00
6,800.00	13.84	104.72	6,668.28	-282.97	1,076.90	413,809.77	626,863.74	32.1373403	-104.0570194	287.67	0.00	0.00	0.00
6,900.00	13.84	104.72	6,765.37	-289.05	1,100.03	413,803.69	626,886.87	32.1373234	-104.0569447	293.84	0.00	0.00	0.00
7,000.00	13.84	104.72	6,862.47	-295.13	1,123.16	413,797.61	626,910.00	32.1373065	-104.0568700	300.02	0.00	0.00	0.00
7,100.00	13.84	104.72	6,959.57	-301.20	1,146.29	413,791.54	626,933.13	32.1372896	-104.0567954	306.20	0.00	0.00	0.00
7,200.00	13.84	104.72	7,056.67	-307.28	1,169.43	413,785.46	626,956.27	32.1372728	-104.0567207	312.38	0.00	0.00	0.00
7,300.00	13.84	104.72	7,153.77	-313.36	1,192.56	413,779.38	626,979.40	32.1372559	-104.0566460	318.56	0.00	0.00	0.00
7,400.00	13.84	104.72	7,250.86	-319.44	1,215.69	413,773.30	627,002.53	32.1372390	-104.0565713	324.74	0.00	0.00	0.00
7,409.41	13.84	104.72	7,260.00	-320.01	1,217.86	413,772.73	627,004.70	32.1372374	-104.0565643	325.32	0.00	0.00	0.00
1st Bone Spring Sand													
7,500.00	13.84	104.72	7,347.96	-325.51	1,238.82	413,767.23	627,025.66	32.1372222	-104.0564966	330.92	0.00	0.00	0.00
7,600.00	13.84	104.72	7,445.06	-331.59	1,261.95	413,761.15	627,048.79	32.1372053	-104.0564220	337.10	0.00	0.00	0.00
7,700.00	13.84	104.72	7,542.16	-337.67	1,285.08	413,755.07	627,071.92	32.1371884	-104.0563473	343.27	0.00	0.00	0.00
7,800.00	13.84	104.72	7,639.26	-343.75	1,308.21	413,748.99	627,095.05	32.1371716	-104.0562726	349.45	0.00	0.00	0.00
7,902.86	13.84	104.72	7,739.13	-350.00	1,332.00	413,742.74	627,118.84	32.1371542	-104.0561958	355.81	0.00	0.00	0.00
7,950.00	15.43	122.38	7,784.76	-354.79	1,342.75	413,737.95	627,129.59	32.1371409	-104.0561611	360.65	10.00	3.38	37.45

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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)
8,000.00	18.30	136.56	7,832.63	-364.06	1,353.78	413,728.68	627,140.62	32.1371154	-104.0561256	369.97	10.00	5.75	28.36
8,050.00	21.94	146.60	7,879.58	-377.57	1,364.32	413,715.17	627,151.16	32.1370782	-104.0560916	383.52	10.00	7.26	20.09
8,100.00	26.01	153.78	7,925.27	-395.21	1,374.31	413,697.53	627,161.15	32.1370296	-104.0560595	401.20	10.00	8.14	14.36
8,121.00	27.80	156.19	7,944.00	-403.82	1,378.32	413,688.92	627,165.16	32.1370059	-104.0560466	409.83	10.00	8.55	11.48
2nd Bone Spring Sand													
8,150.00	30.34	159.08	7,969.35	-416.85	1,383.67	413,675.89	627,170.51	32.1369701	-104.0560294	422.89	10.00	8.75	9.97
8,200.00	34.83	163.15	8,011.47	-442.33	1,392.32	413,650.41	627,179.16	32.1369000	-104.0560017	448.40	10.00	8.99	8.13
8,250.00	39.44	166.38	8,051.32	-471.45	1,400.21	413,621.29	627,187.05	32.1368199	-104.0559765	477.56	10.00	9.21	6.47
8,300.00	44.12	169.04	8,088.60	-503.99	1,407.26	413,588.75	627,194.10	32.1367304	-104.0559539	510.13	10.00	9.36	5.30
8,350.00	48.85	171.27	8,123.02	-539.71	1,413.43	413,553.03	627,200.27	32.1366321	-104.0559343	545.87	10.00	9.46	4.48
8,400.00	53.62	173.21	8,154.32	-578.32	1,418.67	413,514.42	627,205.51	32.1365259	-104.0559177	584.51	10.00	9.53	3.87
8,450.00	58.41	174.92	8,182.27	-619.55	1,422.94	413,473.19	627,209.78	32.1364126	-104.0559042	625.75	10.00	9.59	3.42
8,500.00	63.23	176.46	8,206.64	-663.06	1,426.20	413,429.68	627,213.04	32.1362930	-104.0558941	669.28	10.00	9.63	3.08
8,550.00	68.06	177.88	8,227.26	-708.54	1,428.44	413,384.20	627,215.28	32.1361679	-104.0558872	714.77	10.00	9.66	2.83
8,600.00	72.90	179.20	8,243.96	-755.64	1,429.64	413,337.10	627,216.48	32.1360384	-104.0558837	761.87	10.00	9.68	2.65
8,621.67	75.00	179.75	8,249.95	-776.46	1,429.83	413,316.28	627,216.67	32.1359812	-104.0558833	782.69	10.00	9.70	2.54
8,700.00	78.92	179.75	8,267.63	-852.75	1,430.16	413,239.99	627,217.00	32.1357715	-104.0558828	858.99	5.00	5.00	0.00
8,800.00	83.92	179.75	8,282.55	-951.60	1,430.60	413,141.14	627,217.44	32.1354998	-104.0558823	957.83	5.00	5.00	0.00
8,900.00	88.92	179.75	8,288.79	-1,051.37	1,431.04	413,041.37	627,217.88	32.1352255	-104.0558817	1,057.61	5.00	5.00	0.00
8,921.67	90.00	179.75	8,289.00	-1,073.04	1,431.13	413,019.70	627,217.97	32.1351659	-104.0558815	1,079.27	5.00	5.00	0.00
2nd Bone Spring Sand LZ													
9,000.00	90.00	179.75	8,289.00	-1,151.37	1,431.48	412,941.37	627,218.32	32.1349506	-104.0558811	1,157.61	0.00	0.00	0.00
9,100.00	90.00	179.75	8,289.00	-1,251.37	1,431.92	412,841.37	627,218.76	32.1346757	-104.0558805	1,257.61	0.00	0.00	0.00
9,200.00	90.00	179.75	8,289.00	-1,351.37	1,432.37	412,741.37	627,219.21	32.1344008	-104.0558799	1,357.61	0.00	0.00	0.00
9,300.00	90.00	179.75	8,289.00	-1,451.37	1,432.81	412,641.37	627,219.65	32.1341259	-104.0558793	1,457.61	0.00	0.00	0.00
9,400.00	90.00	179.75	8,289.00	-1,551.37	1,433.25	412,541.37	627,220.09	32.1338510	-104.0558787	1,557.61	0.00	0.00	0.00
9,500.00	90.00	179.75	8,289.00	-1,651.37	1,433.69	412,441.37	627,220.53	32.1335761	-104.0558781	1,657.61	0.00	0.00	0.00
9,600.00	90.00	179.75	8,289.00	-1,751.37	1,434.14	412,341.37	627,220.98	32.1333012	-104.0558775	1,757.61	0.00	0.00	0.00
9,700.00	90.00	179.75	8,289.00	-1,851.36	1,434.58	412,241.38	627,221.42	32.1330264	-104.0558769	1,857.61	0.00	0.00	0.00
9,800.00	90.00	179.75	8,289.00	-1,951.36	1,435.02	412,141.38	627,221.86	32.1327515	-104.0558763	1,957.61	0.00	0.00	0.00
9,900.00	90.00	179.75	8,289.00	-2,051.36	1,435.47	412,041.38	627,222.31	32.1324766	-104.0558757	2,057.61	0.00	0.00	0.00
10,000.00	90.00	179.75	8,289.00	-2,151.36	1,435.91	411,941.38	627,222.75	32.1322017	-104.0558751	2,157.61	0.00	0.00	0.00
10,100.00	90.00	179.75	8,289.00	-2,251.36	1,436.35	411,841.38	627,223.19	32.1319268	-104.0558745	2,257.61	0.00	0.00	0.00
10,200.00	90.00	179.75	8,289.00	-2,351.36	1,436.80	411,741.38	627,223.64	32.1316519	-104.0558739	2,357.61	0.00	0.00	0.00
10,300.00	90.00	179.75	8,289.00	-2,451.36	1,437.24	411,641.38	627,224.08	32.1313770	-104.0558733	2,457.61	0.00	0.00	0.00
10,400.00	90.00	179.75	8,289.00	-2,551.36	1,437.68	411,541.38	627,224.52	32.1311021	-104.0558727	2,557.61	0.00	0.00	0.00
10,500.00	90.00	179.75	8,289.00	-2,651.36	1,438.12	411,441.38	627,224.96	32.1308272	-104.0558721	2,657.61	0.00	0.00	0.00
10,600.00	90.00	179.75	8,289.00	-2,751.36	1,438.57	411,341.38	627,225.41	32.1305523	-104.0558715	2,757.61	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	179.75	8,289.00	-2,851.35	1,439.01	411,241.39	627,225.85	32.1302774	-104.0558709	2,857.61	0.00	0.00	0.00
10,800.00	90.00	179.75	8,289.00	-2,951.35	1,439.45	411,141.39	627,226.29	32.1300025	-104.0558703	2,957.61	0.00	0.00	0.00
10,900.00	90.00	179.75	8,289.00	-3,051.35	1,439.90	411,041.39	627,226.74	32.1297277	-104.0558697	3,057.61	0.00	0.00	0.00
11,000.00	90.00	179.75	8,289.00	-3,151.35	1,440.34	410,941.39	627,227.18	32.1294528	-104.0558691	3,157.61	0.00	0.00	0.00
11,100.00	90.00	179.75	8,289.00	-3,251.35	1,440.78	410,841.39	627,227.62	32.1291779	-104.0558685	3,257.61	0.00	0.00	0.00
11,200.00	90.00	179.75	8,289.00	-3,351.35	1,441.23	410,741.39	627,228.07	32.1289030	-104.0558679	3,357.61	0.00	0.00	0.00
11,300.00	90.00	179.75	8,289.00	-3,451.35	1,441.67	410,641.39	627,228.51	32.1286281	-104.0558673	3,457.61	0.00	0.00	0.00
11,400.00	90.00	179.75	8,289.00	-3,551.35	1,442.11	410,541.39	627,228.95	32.1283532	-104.0558667	3,557.61	0.00	0.00	0.00
11,500.00	90.00	179.75	8,289.00	-3,651.35	1,442.55	410,441.39	627,229.39	32.1280783	-104.0558661	3,657.61	0.00	0.00	0.00
11,600.00	90.00	179.75	8,289.00	-3,751.35	1,443.00	410,341.39	627,229.84	32.1278034	-104.0558655	3,757.61	0.00	0.00	0.00
11,700.00	90.00	179.75	8,289.00	-3,851.34	1,443.44	410,241.40	627,230.28	32.1275285	-104.0558649	3,857.61	0.00	0.00	0.00
11,800.00	90.00	179.75	8,289.00	-3,951.34	1,443.88	410,141.40	627,230.72	32.1272536	-104.0558643	3,957.61	0.00	0.00	0.00
11,900.00	90.00	179.75	8,289.00	-4,051.34	1,444.33	410,041.40	627,231.17	32.1269787	-104.0558637	4,057.61	0.00	0.00	0.00
12,000.00	90.00	179.75	8,289.00	-4,151.34	1,444.77	409,941.40	627,231.61	32.1267038	-104.0558631	4,157.61	0.00	0.00	0.00
12,100.00	90.00	179.75	8,289.00	-4,251.34	1,445.21	409,841.40	627,232.05	32.1264289	-104.0558625	4,257.61	0.00	0.00	0.00
12,200.00	90.00	179.75	8,289.00	-4,351.34	1,445.66	409,741.40	627,232.50	32.1261541	-104.0558619	4,357.61	0.00	0.00	0.00
12,300.00	90.00	179.75	8,289.00	-4,451.34	1,446.10	409,641.40	627,232.94	32.1258792	-104.0558613	4,457.61	0.00	0.00	0.00
12,400.00	90.00	179.75	8,289.00	-4,551.34	1,446.54	409,541.40	627,233.38	32.1256043	-104.0558607	4,557.61	0.00	0.00	0.00
12,500.00	90.00	179.75	8,289.00	-4,651.34	1,446.98	409,441.40	627,233.82	32.1253294	-104.0558601	4,657.61	0.00	0.00	0.00
12,600.00	90.00	179.75	8,289.00	-4,751.34	1,447.43	409,341.40	627,234.27	32.1250545	-104.0558595	4,757.61	0.00	0.00	0.00
12,688.51	90.00	179.75	8,289.00	-4,839.84	1,447.82	409,252.90	627,234.66	32.1248112	-104.0558590	4,846.11	0.00	0.00	0.00
12,700.00	90.00	178.66	8,289.00	-4,851.33	1,447.98	409,241.41	627,234.82	32.1247796	-104.0558586	4,857.61	9.42	0.00	-9.42
12,750.00	90.00	173.95	8,289.00	-4,901.22	1,451.20	409,191.52	627,238.04	32.1246425	-104.0558486	4,907.50	9.42	0.00	-9.42
12,800.00	90.00	169.24	8,289.00	-4,950.67	1,458.50	409,142.07	627,245.34	32.1245065	-104.0558254	4,956.98	9.42	0.00	-9.42
12,850.00	90.00	164.53	8,289.00	-4,999.35	1,469.84	409,093.39	627,256.68	32.1243726	-104.0557892	5,005.71	9.42	0.00	-9.42
12,900.00	90.00	159.82	8,289.00	-5,046.94	1,485.14	409,045.80	627,271.98	32.1242416	-104.0557402	5,053.37	9.42	0.00	-9.42
12,950.00	90.00	155.11	8,289.00	-5,093.11	1,504.29	408,999.63	627,291.13	32.1241146	-104.0556787	5,099.62	9.42	0.00	-9.42
13,000.00	90.00	150.40	8,289.00	-5,137.55	1,527.17	408,955.19	627,314.01	32.1239923	-104.0556051	5,144.16	9.42	0.00	-9.42
13,050.00	90.00	145.69	8,289.00	-5,179.96	1,553.63	408,912.78	627,340.47	32.1238755	-104.0555200	5,186.69	9.42	0.00	-9.42
13,100.00	90.00	140.98	8,289.00	-5,220.06	1,583.47	408,872.68	627,370.31	32.1237650	-104.0554239	5,226.92	9.42	0.00	-9.42
13,150.00	90.00	136.27	8,289.00	-5,257.57	1,616.51	408,835.17	627,403.35	32.1236617	-104.0553175	5,264.57	9.42	0.00	-9.42
13,200.00	90.00	131.56	8,289.00	-5,292.24	1,652.52	408,800.50	627,439.36	32.1235661	-104.0552015	5,299.40	9.42	0.00	-9.42
13,250.00	90.00	126.85	8,289.00	-5,323.84	1,691.25	408,768.90	627,478.09	32.1234790	-104.0550767	5,331.17	9.42	0.00	-9.42
13,300.00	90.00	122.14	8,289.00	-5,352.15	1,732.44	408,740.59	627,519.28	32.1234009	-104.0549438	5,359.66	9.42	0.00	-9.42
13,350.00	90.00	117.43	8,289.00	-5,376.98	1,775.83	408,715.76	627,562.67	32.1233323	-104.0548039	5,384.68	9.42	0.00	-9.42
13,400.00	90.00	112.72	8,289.00	-5,398.17	1,821.10	408,694.57	627,607.94	32.1232737	-104.0546578	5,406.06	9.42	0.00	-9.42
13,450.00	90.00	108.01	8,289.00	-5,415.57	1,867.96	408,677.17	627,654.80	32.1232256	-104.0545066	5,423.67	9.42	0.00	-9.42
13,500.00	90.00	103.30	8,289.00	-5,429.06	1,916.09	408,663.68	627,702.93	32.1231882	-104.0543513	5,437.37	9.42	0.00	-9.42

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,550.00	90.00	98.59	8,289.00	-5,438.55	1,965.17	408,654.19	627,752.01	32.1231617	-104.0541928	5,447.08	9.42	0.00	-9.42
13,600.00	90.00	93.88	8,289.00	-5,443.98	2,014.86	408,648.76	627,801.70	32.1231464	-104.0540324	5,452.72	9.42	0.00	-9.42
13,650.00	90.00	89.17	8,289.00	-5,445.32	2,064.82	408,647.42	627,851.66	32.1231424	-104.0538710	5,454.28	9.42	0.00	-9.42
13,700.00	90.00	84.46	8,289.00	-5,442.54	2,114.73	408,650.20	627,901.57	32.1231497	-104.0537097	5,451.72	9.42	0.00	-9.42
13,750.00	90.00	79.75	8,289.00	-5,435.68	2,164.25	408,657.06	627,951.09	32.1231682	-104.0535497	5,445.07	9.42	0.00	-9.42
13,800.00	90.00	75.04	8,289.00	-5,424.77	2,213.03	408,667.97	627,999.87	32.1231978	-104.0533921	5,434.38	9.42	0.00	-9.42
13,850.00	90.00	70.33	8,289.00	-5,409.90	2,260.75	408,682.84	628,047.59	32.1232384	-104.0532378	5,419.71	9.42	0.00	-9.42
13,900.00	90.00	65.62	8,289.00	-5,391.16	2,307.09	408,701.58	628,093.93	32.1232896	-104.0530879	5,401.17	9.42	0.00	-9.42
13,950.00	90.00	60.91	8,289.00	-5,368.67	2,351.73	408,724.07	628,138.57	32.1233510	-104.0529435	5,378.88	9.42	0.00	-9.42
14,000.00	90.00	56.20	8,289.00	-5,342.60	2,394.38	408,750.14	628,181.22	32.1234224	-104.0528056	5,353.00	9.42	0.00	-9.42
14,050.00	90.00	51.49	8,289.00	-5,313.11	2,434.74	408,779.63	628,221.58	32.1235032	-104.0526749	5,323.68	9.42	0.00	-9.42
14,100.00	90.00	46.78	8,289.00	-5,280.41	2,472.54	408,812.33	628,259.38	32.1235928	-104.0525525	5,291.15	9.42	0.00	-9.42
14,150.00	90.00	42.07	8,289.00	-5,244.71	2,507.54	408,848.03	628,294.38	32.1236907	-104.0524392	5,255.60	9.42	0.00	-9.42
14,200.00	90.00	37.36	8,289.00	-5,206.26	2,539.48	408,886.48	628,326.32	32.1237961	-104.0523357	5,217.29	9.42	0.00	-9.42
14,250.00	90.00	32.65	8,289.00	-5,165.32	2,568.15	408,927.42	628,354.99	32.1239085	-104.0522427	5,176.48	9.42	0.00	-9.42
14,300.00	90.00	27.94	8,289.00	-5,122.16	2,593.37	408,970.58	628,380.21	32.1240269	-104.0521609	5,133.43	9.42	0.00	-9.42
14,350.00	90.00	23.23	8,289.00	-5,077.08	2,614.96	409,015.66	628,401.80	32.1241507	-104.0520908	5,088.44	9.42	0.00	-9.42
14,400.00	90.00	18.52	8,289.00	-5,030.38	2,632.77	409,062.36	628,419.61	32.1242790	-104.0520329	5,041.82	9.42	0.00	-9.42
14,450.00	90.00	13.81	8,289.00	-4,982.37	2,646.69	409,110.37	628,433.53	32.1244108	-104.0519875	4,993.87	9.42	0.00	-9.42
14,500.00	90.00	9.10	8,289.00	-4,933.38	2,656.62	409,159.36	628,443.46	32.1245454	-104.0519550	4,944.92	9.42	0.00	-9.42
14,530.51	90.00	6.23	8,289.00	-4,903.15	2,660.69	409,189.59	628,447.53	32.1246285	-104.0519416	4,914.71	9.42	0.00	-9.42
14,600.00	90.00	4.28	8,289.00	-4,833.95	2,667.06	409,258.79	628,453.90	32.1248187	-104.0519204	4,845.54	2.80	0.00	-2.80
14,700.00	90.00	1.48	8,289.00	-4,734.09	2,672.09	409,358.65	628,458.93	32.1250932	-104.0519034	4,745.70	2.80	0.00	-2.80
14,762.01	90.00	359.75	8,289.00	-4,672.08	2,672.76	409,420.66	628,459.60	32.1252636	-104.0519007	4,683.70	2.80	0.00	-2.80
14,800.00	90.00	359.75	8,289.00	-4,634.09	2,672.59	409,458.65	628,459.43	32.1253680	-104.0519009	4,645.71	0.00	0.00	0.00
14,900.00	90.00	359.75	8,289.00	-4,534.09	2,672.15	409,558.65	628,458.99	32.1256429	-104.0519015	4,545.71	0.00	0.00	0.00
15,000.00	90.00	359.75	8,289.00	-4,434.09	2,671.72	409,658.65	628,458.55	32.1259178	-104.0519020	4,445.71	0.00	0.00	0.00
15,100.00	90.00	359.75	8,289.00	-4,334.10	2,671.28	409,758.64	628,458.12	32.1261927	-104.0519026	4,345.71	0.00	0.00	0.00
15,200.00	90.00	359.75	8,289.00	-4,234.10	2,670.84	409,858.64	628,457.68	32.1264676	-104.0519032	4,245.71	0.00	0.00	0.00
15,300.00	90.00	359.75	8,289.00	-4,134.10	2,670.40	409,958.64	628,457.24	32.1267425	-104.0519038	4,145.71	0.00	0.00	0.00
15,400.00	90.00	359.75	8,289.00	-4,034.10	2,669.96	410,058.64	628,456.80	32.1270174	-104.0519043	4,045.71	0.00	0.00	0.00
15,500.00	90.00	359.75	8,289.00	-3,934.10	2,669.52	410,158.64	628,456.36	32.1272923	-104.0519049	3,945.71	0.00	0.00	0.00
15,600.00	90.00	359.75	8,289.00	-3,834.10	2,669.08	410,258.64	628,455.92	32.1275672	-104.0519055	3,845.71	0.00	0.00	0.00
15,700.00	90.00	359.75	8,289.00	-3,734.10	2,668.64	410,358.64	628,455.48	32.1278421	-104.0519061	3,745.71	0.00	0.00	0.00
15,800.00	90.00	359.75	8,289.00	-3,634.10	2,668.20	410,458.64	628,455.04	32.1281170	-104.0519066	3,645.71	0.00	0.00	0.00
15,900.00	90.00	359.75	8,289.00	-3,534.10	2,667.77	410,558.64	628,454.61	32.1283919	-104.0519072	3,545.71	0.00	0.00	0.00
16,000.00	90.00	359.75	8,289.00	-3,434.10	2,667.33	410,658.64	628,454.17	32.1286667	-104.0519078	3,445.71	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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)
16,100.00	90.00	359.75	8,289.00	-3,334.10	2,666.89	410,758.64	628,453.73	32.1289416	-104.0519083	3,345.71	0.00	0.00	0.00
16,200.00	90.00	359.75	8,289.00	-3,234.11	2,666.45	410,858.63	628,453.29	32.1292165	-104.0519089	3,245.71	0.00	0.00	0.00
16,300.00	90.00	359.75	8,289.00	-3,134.11	2,666.01	410,958.63	628,452.85	32.1294914	-104.0519095	3,145.71	0.00	0.00	0.00
16,400.00	90.00	359.75	8,289.00	-3,034.11	2,665.57	411,058.63	628,452.41	32.1297663	-104.0519101	3,045.71	0.00	0.00	0.00
16,500.00	90.00	359.75	8,289.00	-2,934.11	2,665.13	411,158.63	628,451.97	32.1300412	-104.0519106	2,945.71	0.00	0.00	0.00
16,600.00	90.00	359.75	8,289.00	-2,834.11	2,664.69	411,258.63	628,451.53	32.1303161	-104.0519112	2,845.71	0.00	0.00	0.00
16,700.00	90.00	359.75	8,289.00	-2,734.11	2,664.26	411,358.63	628,451.10	32.1305910	-104.0519118	2,745.71	0.00	0.00	0.00
16,800.00	90.00	359.75	8,289.00	-2,634.11	2,663.82	411,458.63	628,450.66	32.1308659	-104.0519124	2,645.71	0.00	0.00	0.00
16,900.00	90.00	359.75	8,289.00	-2,534.11	2,663.38	411,558.63	628,450.22	32.1311408	-104.0519129	2,545.71	0.00	0.00	0.00
17,000.00	90.00	359.75	8,289.00	-2,434.11	2,662.94	411,658.63	628,449.78	32.1314157	-104.0519135	2,445.71	0.00	0.00	0.00
17,100.00	90.00	359.75	8,289.00	-2,334.11	2,662.50	411,758.63	628,449.34	32.1316906	-104.0519141	2,345.71	0.00	0.00	0.00
17,200.00	90.00	359.75	8,289.00	-2,234.12	2,662.06	411,858.62	628,448.90	32.1319655	-104.0519147	2,245.71	0.00	0.00	0.00
17,300.00	90.00	359.75	8,289.00	-2,134.12	2,661.62	411,958.62	628,448.46	32.1322403	-104.0519152	2,145.71	0.00	0.00	0.00
17,400.00	90.00	359.75	8,289.00	-2,034.12	2,661.18	412,058.62	628,448.02	32.1325152	-104.0519158	2,045.71	0.00	0.00	0.00
17,500.00	90.00	359.75	8,289.00	-1,934.12	2,660.75	412,158.62	628,447.59	32.1327901	-104.0519164	1,945.71	0.00	0.00	0.00
17,600.00	90.00	359.75	8,289.00	-1,834.12	2,660.31	412,258.62	628,447.15	32.1330650	-104.0519169	1,845.71	0.00	0.00	0.00
17,700.00	90.00	359.75	8,289.00	-1,734.12	2,659.87	412,358.62	628,446.71	32.1333399	-104.0519175	1,745.71	0.00	0.00	0.00
17,800.00	90.00	359.75	8,289.00	-1,634.12	2,659.43	412,458.62	628,446.27	32.1336148	-104.0519181	1,645.71	0.00	0.00	0.00
17,900.00	90.00	359.75	8,289.00	-1,534.12	2,658.99	412,558.62	628,445.83	32.1338897	-104.0519187	1,545.71	0.00	0.00	0.00
18,000.00	90.00	359.75	8,289.00	-1,434.12	2,658.55	412,658.62	628,445.39	32.1341646	-104.0519192	1,445.71	0.00	0.00	0.00
18,100.00	90.00	359.75	8,289.00	-1,334.12	2,658.11	412,758.62	628,444.95	32.1344395	-104.0519198	1,345.71	0.00	0.00	0.00
18,200.00	90.00	359.75	8,289.00	-1,234.13	2,657.67	412,858.61	628,444.51	32.1347144	-104.0519204	1,245.71	0.00	0.00	0.00
18,300.00	90.00	359.75	8,289.00	-1,134.13	2,657.24	412,958.61	628,444.08	32.1349893	-104.0519210	1,145.71	0.00	0.00	0.00
18,400.00	90.00	359.75	8,289.00	-1,034.13	2,656.80	413,058.61	628,443.64	32.1352642	-104.0519215	1,045.71	0.00	0.00	0.00
18,500.00	90.00	359.75	8,289.00	-934.13	2,656.36	413,158.61	628,443.20	32.1355390	-104.0519221	945.71	0.00	0.00	0.00
18,600.00	90.00	359.75	8,289.00	-834.13	2,655.92	413,258.61	628,442.76	32.1358139	-104.0519227	845.71	0.00	0.00	0.00
18,700.00	90.00	359.75	8,289.00	-734.13	2,655.48	413,358.61	628,442.32	32.1360888	-104.0519233	745.71	0.00	0.00	0.00
18,800.00	90.00	359.75	8,289.00	-634.13	2,655.04	413,458.61	628,441.88	32.1363637	-104.0519238	645.71	0.00	0.00	0.00
18,900.00	90.00	359.75	8,289.00	-534.13	2,654.60	413,558.61	628,441.44	32.1366386	-104.0519244	545.71	0.00	0.00	0.00
19,000.00	90.00	359.75	8,289.00	-434.13	2,654.16	413,658.61	628,441.00	32.1369135	-104.0519250	445.71	0.00	0.00	0.00
19,101.33	90.00	359.75	8,289.00	-332.80	2,653.72	413,759.94	628,440.56	32.1371921	-104.0519256	344.38	0.00	0.00	0.00

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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
LP Crv 2 (Riverbend 14	0.00	0.00	0.00	-4,831.26	2,673.53	409,261.48	628,460.37	32.1248260	-104.0518995
- plan misses target center by 5521.67usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Peak Crv 2 (Riverbend 1	0.00	0.00	0.00	-5,448.40	2,064.96	408,644.34	627,851.80	32.1231339	-104.0538705
- plan misses target center by 5826.59usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
FTP (Riverbend 14 Fede	0.00	0.00	0.00	-347.39	1,428.02	413,745.35	627,214.86	32.1371607	-104.0558856
- plan misses target center by 1469.67usft 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	-4,839.84	1,447.82	409,252.90	627,234.66	32.1248112	-104.0558590
- plan misses target center by 5051.76usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LPP (Riverbend 14 Fede	0.00	0.00	0.00	-1,561.59	2,659.13	412,531.15	628,445.97	32.1338142	-104.0519185
- plan misses target center by 3083.75usft 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	-5,296.12	2,465.00	408,796.62	628,251.84	32.1235497	-104.0525770
- plan misses target center by 5841.67usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LTP (Riverbend 14 Fede	0.00	0.00	0.00	-332.80	2,653.72	413,759.94	628,440.56	32.1371921	-104.0519256
- plan misses target center by 2674.51usft 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	-5,301.73	1,662.83	408,791.01	627,449.67	32.1235400	-104.0551683
- plan misses target center by 5556.38usft 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 (°)
1,091.00	1,091.00	Rustler			
1,570.00	1,570.00	Top Salt			
2,365.67	2,362.00	Base Salt/Lamar			
2,558.64	2,550.00	Top Delaware Sands/Bell Canyon			
3,459.79	3,425.00	Cherry Canyon			
4,800.71	4,727.00	Brushy Canyon			
5,771.89	5,670.00	Lower Brushy Canyon			
6,455.73	6,334.00	Bone Spring Lime			
7,409.41	7,260.00	1st Bone Spring Sand			
8,121.00	7,944.00	2nd Bone Spring Sand			
8,921.67	8,289.00	2nd Bone Spring Sand LZ			

Checked By: _____ Approved By: _____ Date: _____

Released to Imaging: 12/5/2025 11:24:01 AM
Received by OCD: 11/21/2025 2:42:16 PM

COTERRA

Coterra Energy
Site: Riverbend 14 Federal Com
Well: Riverbend 14 Federal Com 3H
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	414092.74	625786.84	32.1381256	-104.0604963	

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	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	
2491.84	13.84	104.72	2485.13	-21.13	80.40	2.00	104.72	21.48	
7902.86	13.84	104.72	7739.13	-350.00	1332.00	0.00	0.00	355.81	
8621.67	75.00	179.75	8249.95	-776.46	1429.83	10.00	79.06	782.69	
8921.67	90.00	179.75	8289.00	-1073.04	1431.13	5.00	-0.01	1079.27	
12688.51	90.00	179.75	8289.00	-4839.84	1447.82	0.00	0.00	4846.11	
14530.51	90.00	6.23	8289.00	-4903.15	2660.69	9.42	-90.00	4914.71	
14762.01	90.00	359.75	8289.00	-4672.08	2672.76	2.80	-90.00	4683.70	
19101.33	90.00	359.75	8289.00	-332.80	2653.72	0.00	0.00	344.38	

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1091.00	1091.00	Rustler
1570.00	1570.00	Top Salt
2362.00	2365.67	Base Salt/Lamar
2550.00	2558.67	Top Delaware Sands/Bell Canyon
3425.00	3459.79	Cherry Canyon
4727.00	4800.71	Brushy Canyon
5670.00	5771.89	Lower Brushy Canyon
6334.00	6455.73	Bone Spring Lime
7260.00	7409.41	1st Bone Spring Sand
7944.00	8121.00	2nd Bone Spring Sand
8289.00	8921.67	2nd Bone Spring Sand LZ

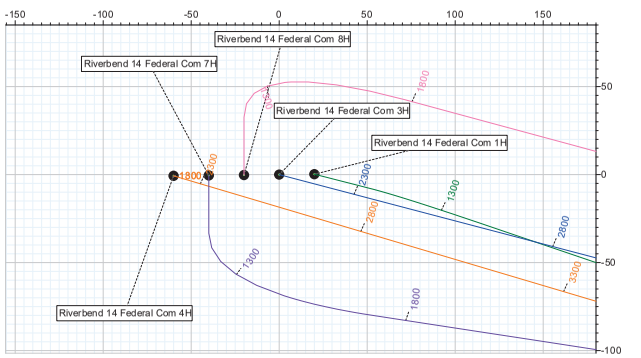
WELLBORE TARGET DETAILS

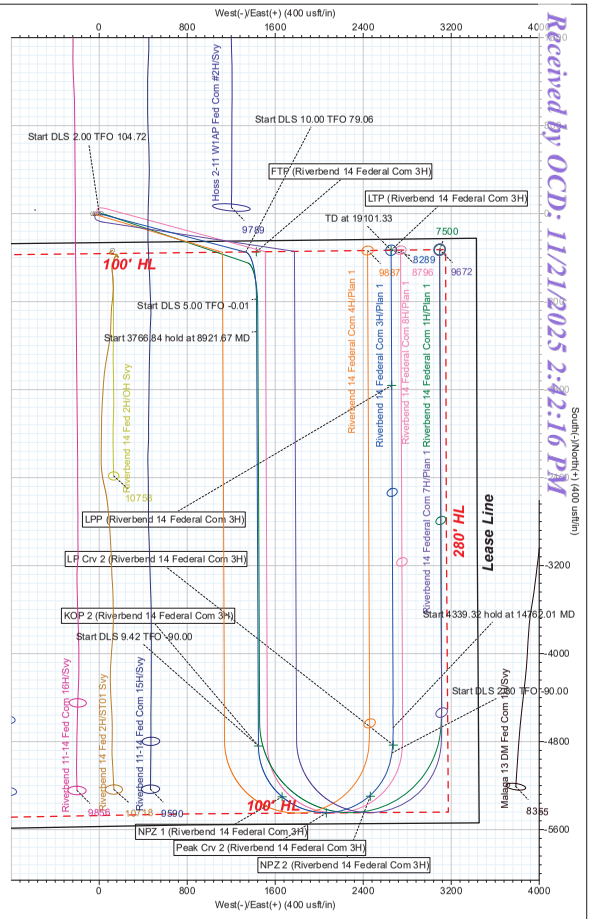
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Riverbend 14 Federal Com 3H)	0.00	-347.39	1428.02	413745.35	627214.86	32.1371607	-104.0558856
KOP 2 (Riverbend 14 Federal Com 3H)	0.00	-4839.84	1447.82	409252.90	627234.66	32.1248112	-104.0558590
LP Crv 2 (Riverbend 14 Federal Com 3H)	0.00	-4831.26	2673.53	409261.48	628460.37	32.1248260	-104.0518995
LPP (Riverbend 14 Federal Com 3H)	0.00	-1561.59	2659.13	412531.15	628445.97	32.1338142	-104.0519185
LTP (Riverbend 14 Federal Com 3H)	0.00	-332.80	2653.72	413759.94	628440.56	32.1371920	-104.0519256
NPZ 1 (Riverbend 14 Federal Com 3H)	0.00	-5301.73	1662.83	408791.01	627449.67	32.1235399	-104.0551683
NPZ 2 (Riverbend 14 Federal Com 3H)	0.00	-5296.12	2465.00	408796.62	628251.84	32.1235496	-104.0525771
Peak Crv 2 (Riverbend 14 Federal Com 3H)	0.00	-5448.40	2064.96	408644.34	627851.80	32.1231339	-104.0538706

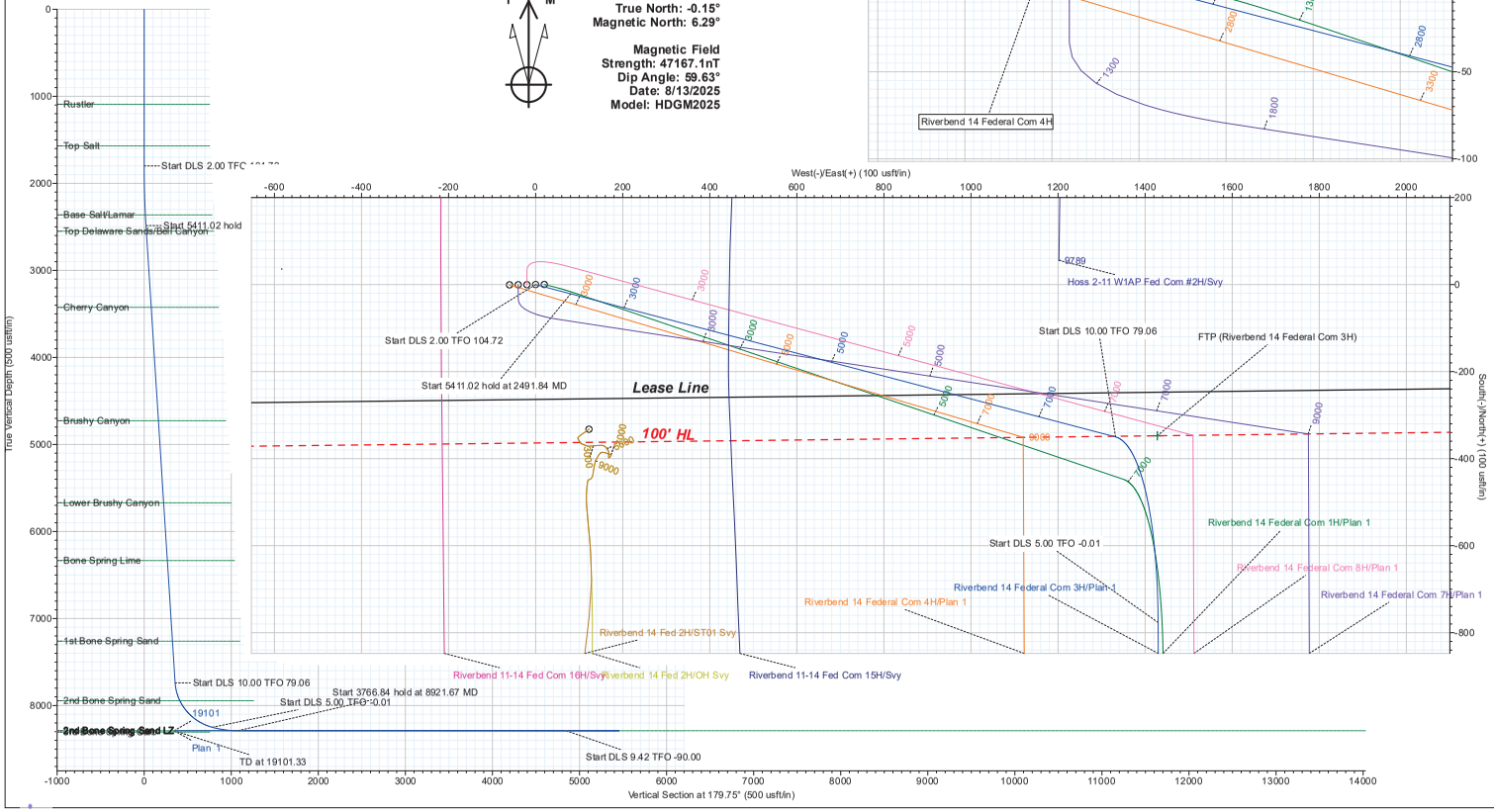


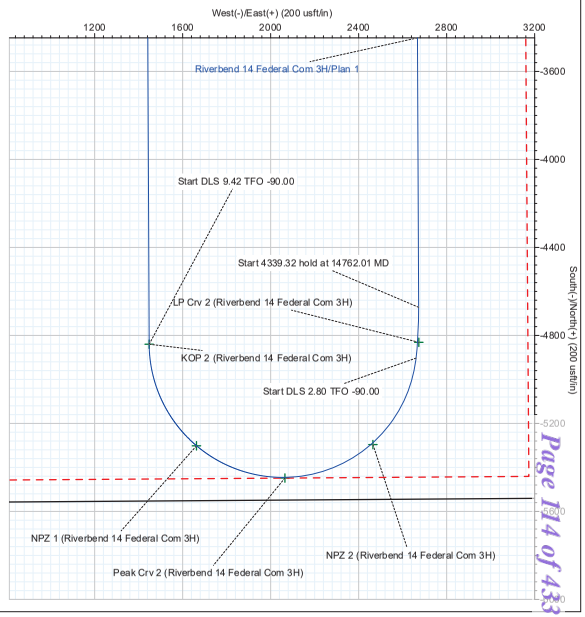
Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.29°

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









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Coterra Energy

Eddy County, NM (NAD 83)
Riverbend 14 Federal Com
Riverbend 14 Federal Com 3H

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 3H
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 3H	**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 3H						
Well Position	**+N/-S**	0.00 usft	**Northing:**	414,092.74	usft	**Latitude:**	32.1381257
	+E/-W	0.00 usft	**Easting:**	625,786.84	usft	**Longitude:**	-104.0604962
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		usft	**Ground Level:**	2,935.00 usft
Grid Convergence:		0.15 °					

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

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,100.64	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 1H -	2,935.00	2,958.00	414,092.97	625,806.83	32.1381262	-104.0604317	0.00	0.00
Riverbend 14 Federal Com 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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Riverbend 11-14						
Riverbend 11-14 Fed Com 15H - OH - Svy	12,688.23	18,918.64	1,628.50	1,501.22	12.80	CC
Riverbend 11-14 Fed Com 15H - OH - Svy	12,700.00	18,927.96	1,628.57	1,501.15	12.78	ES
Riverbend 11-14 Fed Com 15H - OH - Svy	12,850.00	19,078.25	1,641.74	1,512.00	12.65	SF
Riverbend 11-14 Fed Com 16H - OH - Svy	11,823.55	18,261.55	2,262.81	2,147.65	19.65	CC
Riverbend 11-14 Fed Com 16H - OH - Svy	12,000.00	18,404.00	2,263.96	2,146.71	19.31	ES
Riverbend 11-14 Fed Com 16H - OH - Svy	12,950.00	19,433.67	2,319.07	2,187.84	17.67	SF
Riverbend 11-14 Fed Com 17H - OH - Svy	12,702.52	19,095.20	2,624.53	2,496.98	20.58	CC, ES
Riverbend 11-14 Fed Com 17H - OH - Svy	12,900.00	19,232.89	2,655.00	2,525.14	20.45	SF
Riverbend 11-14 Fed Com 7H - OH - Svy	12,650.04	19,294.08	3,321.55	3,195.95	26.44	CC
Riverbend 11-14 Fed Com 7H - OH - Svy	12,700.00	19,340.00	3,321.79	3,195.55	26.31	ES
Riverbend 11-14 Fed Com 7H - OH - Svy	12,850.00	19,434.00	3,342.41	3,214.50	26.13	SF
Riverbend 14 Fed 2H - OH - OH Svy	0.00	0.00	354.31			
Riverbend 14 Fed 2H - OH - OH Svy	3,129.33	3,107.25	324.34	302.59	14.91	CC
Riverbend 14 Fed 2H - OH - OH Svy	3,200.00	3,176.35	324.70	302.44	14.59	ES
Riverbend 14 Fed 2H - ST01 - ST01 Svy	0.00	0.00	354.31			
Riverbend 14 Fed 2H - ST01 - ST01 Svy	3,129.33	3,107.25	324.34	302.59	14.91	CC
Riverbend 14 Fed 2H - ST01 - ST01 Svy	3,200.00	3,176.35	324.70	302.44	14.59	ES
Riverbend 12-13 Offsets						
Malaga 13 DM Fed Com 1H - OH - Svy	14,450.00	13,159.01	1,154.95	1,018.70	8.48	SF
Malaga 13 DM Fed Com 1H - OH - Svy	14,600.00	13,006.20	1,144.66	1,011.19	8.58	ES
Malaga 13 DM Fed Com 1H - OH - Svy	14,612.47	12,994.81	1,144.62	1,011.37	8.59	CC
Riverbend 14 Federal Com						
Hoss 2-11 W1AP Fed Com #2H - OH - Svy	8,515.55	19,907.00	1,752.03	1,653.96	17.87	CC, ES
Hoss 2-11 W1AP Fed Com #2H - OH - Svy	19,101.33	19,907.00	2,123.22	1,921.13	10.51	SF
Riverbend 14 Federal Com 1H - OH - Plan 1	500.00	500.00	19.99	16.57	5.85	CC, ES
Riverbend 14 Federal Com 1H - OH - Plan 1	7,157.72	7,119.48	246.07	192.81	4.62	SF
Riverbend 14 Federal Com 4H - OH - Plan 1	1,800.00	1,801.00	59.98	47.24	4.71	CC, ES
Riverbend 14 Federal Com 4H - OH - Plan 1	7,300.00	7,317.28	141.02	87.05	2.61	SF
Riverbend 14 Federal Com 7H - OH - Plan 1	416.33	417.33	39.99	37.17	14.16	CC
Riverbend 14 Federal Com 7H - OH - Plan 1	700.00	700.64	40.69	35.87	8.46	ES
Riverbend 14 Federal Com 7H - OH - Plan 1	8,000.00	7,988.75	281.80	221.25	4.65	SF
Riverbend 14 Federal Com 8H - OH - Plan 1	536.30	536.30	19.99	16.31	5.43	CC
Riverbend 14 Federal Com 8H - OH - Plan 1	600.00	599.97	20.05	15.91	4.85	ES
Riverbend 14 Federal Com 8H - OH - Plan 1	8,065.57	8,066.79	132.10	71.35	2.17	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

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)	Rule Assigned: Distance Between Ellipses (usft)	Rule Assigned: Minimum Separation (usft)	Rule Assigned: Separation Factor	Warning
0.00	0.00	27.98	27.98	0.00	0.04	1.98	4,645.53	160.34	4,648.30				
100.00	100.00	114.61	114.61	0.28	0.18	1.97	4,645.75	160.10	4,648.54	4,648.08	0.46	N/A	
200.00	200.00	201.31	201.31	0.63	0.32	1.97	4,646.22	159.57	4,649.06	4,648.11	0.95	4,868.491	
300.00	300.00	317.15	317.14	0.99	0.74	1.95	4,646.87	158.25	4,649.58	4,647.86	1.73	2,690.801	
400.00	400.00	429.24	429.21	1.35	1.14	1.92	4,647.04	156.08	4,649.66	4,647.17	2.49	1,869.547	
500.00	500.00	508.54	508.49	1.71	1.42	1.90	4,647.27	154.45	4,649.90	4,646.77	3.13	1,485.865	
600.00	600.00	581.90	581.84	2.07	1.68	1.89	4,647.94	153.11	4,650.74	4,646.98	3.75	1,239.941	
700.00	700.00	673.04	672.95	2.43	2.01	1.87	4,649.06	151.39	4,651.91	4,647.47	4.44	1,048.739	
800.00	800.00	802.48	802.36	2.79	2.46	1.84	4,650.71	149.66	4,653.22	4,647.97	5.25	886.439	

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 3H
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 3H	**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	900.00	919.55	919.42	3.14	2.86	1.86	4,650.95	151.16	4,653.43	4,647.43	6.00	775.495	
1,000.00	1,000.00	1,027.05	1,026.90	3.50	3.22	1.89	4,651.12	153.39	4,653.65	4,646.93	6.72	692.374	
1,100.00	1,100.00	1,132.46	1,132.28	3.86	3.58	1.92	4,651.09	155.65	4,653.69	4,646.25	7.44	625.546	
1,200.00	1,200.00	1,226.63	1,226.44	4.22	3.90	1.94	4,651.11	157.24	4,653.77	4,645.65	8.12	572.973	
1,300.00	1,300.00	1,333.68	1,333.47	4.58	4.27	1.96	4,651.09	159.15	4,653.81	4,644.96	8.85	525.753	
1,398.34	1,398.34	1,430.87	1,430.64	4.93	4.61	1.99	4,650.97	161.33	4,653.76	4,644.22	9.54	487.674	
1,400.00	1,400.00	1,432.31	1,432.08	4.94	4.62	1.99	4,650.96	161.36	4,653.76	4,644.21	9.55	487.114	
1,500.00	1,500.00	1,526.98	1,526.72	5.29	4.95	2.02	4,651.01	163.76	4,653.89	4,643.65	10.24	454.328	
1,600.00	1,600.00	1,641.63	1,641.36	5.65	5.35	2.03	4,650.87	165.21	4,653.81	4,642.81	11.00	422.966	
1,685.03	1,685.03	1,717.60	1,717.33	5.96	5.62	2.04	4,650.72	165.44	4,653.66	4,642.09	11.57	402.114	
1,700.00	1,700.00	1,728.23	1,727.96	6.01	5.65	2.04	4,650.72	165.46	4,653.67	4,642.00	11.66	398.982	
1,800.00	1,800.00	1,804.01	1,803.74	6.37	5.92	2.04	4,651.02	165.69	4,654.06	4,641.77	12.29	378.742	
1,900.00	1,899.98	1,903.34	1,903.07	6.72	6.27	-102.68	4,651.70	165.90	4,655.13	4,642.14	12.99	358.464	
2,000.00	1,999.84	2,105.50	2,105.16	7.06	6.98	-102.74	4,650.90	170.27	4,656.12	4,642.09	14.03	331.774	
2,100.00	2,099.45	2,303.16	2,302.74	7.40	7.67	-102.95	4,645.28	171.31	4,655.03	4,639.98	15.05	309.237	
2,200.00	2,198.70	2,348.00	2,347.54	7.74	7.82	-103.01	4,643.63	171.93	4,654.43	4,638.87	15.56	299.180	
2,205.53	2,204.18	2,373.66	2,373.19	7.76	7.91	-103.05	4,642.77	172.41	4,654.31	4,638.65	15.66	297.116	
2,300.00	2,297.47	2,416.19	2,415.69	8.09	8.06	-103.09	4,641.73	173.35	4,655.43	4,639.29	16.14	288.359	
2,400.00	2,395.62	2,442.00	2,441.49	8.44	8.15	-103.08	4,641.32	174.01	4,658.63	4,642.04	16.59	280.877	
2,491.84	2,485.13	2,494.00	2,493.47	8.76	8.34	-103.11	4,641.18	175.15	4,663.33	4,646.24	17.09	272.835	
2,500.00	2,493.06	2,494.00	2,493.47	8.79	8.34	-103.11	4,641.18	175.15	4,663.83	4,646.71	17.12	272.408	
2,600.00	2,590.16	2,581.02	2,580.47	9.14	8.64	-103.34	4,641.86	176.76	4,670.30	4,652.51	17.78	262.628	
2,700.00	2,687.25	2,667.67	2,667.10	9.50	8.95	-103.57	4,642.69	178.58	4,677.03	4,658.59	18.45	253.545	
2,800.00	2,784.35	2,736.00	2,735.41	9.86	9.19	-103.74	4,643.55	180.02	4,684.19	4,665.15	19.05	245.931	
2,900.00	2,881.45	2,792.02	2,791.40	10.23	9.39	-103.88	4,644.67	181.64	4,692.20	4,672.60	19.60	239.356	
3,000.00	2,978.55	2,845.22	2,844.52	10.60	9.58	-104.01	4,646.34	184.04	4,701.32	4,681.17	20.15	233.316	
3,100.00	3,075.65	2,925.00	2,924.06	10.96	9.86	-104.17	4,649.43	189.20	4,711.22	4,690.43	20.80	226.549	
3,200.00	3,172.74	3,009.33	3,008.05	11.34	10.16	-104.33	4,652.99	195.93	4,721.52	4,700.06	21.46	220.017	
3,300.00	3,269.84	3,091.30	3,089.60	11.71	10.45	-104.47	4,656.60	203.30	4,732.06	4,709.94	22.12	213.959	
3,400.00	3,366.94	3,174.35	3,172.12	12.08	10.75	-104.60	4,660.57	211.81	4,742.99	4,720.21	22.78	208.218	
3,500.00	3,464.04	3,321.28	3,317.97	12.46	11.27	-104.82	4,667.28	228.33	4,753.80	4,730.11	23.68	200.711	
3,600.00	3,561.14	3,432.66	3,428.44	12.83	11.67	-104.97	4,671.49	241.83	4,763.78	4,739.32	24.46	194.770	
3,700.00	3,658.24	3,533.73	3,528.83	13.21	12.03	-105.11	4,675.16	253.03	4,773.66	4,748.46	25.20	189.468	
3,800.00	3,755.33	3,626.37	3,620.92	13.59	12.36	-105.26	4,678.52	262.51	4,783.58	4,757.68	25.90	184.687	
3,900.00	3,852.43	3,724.30	3,718.03	13.97	12.72	-105.39	4,682.30	274.52	4,793.72	4,767.09	26.63	180.022	
4,000.00	3,949.53	3,830.95	3,823.60	14.35	13.10	-105.51	4,686.24	289.19	4,803.69	4,776.30	27.39	175.376	
4,100.00	4,046.63	3,962.15	3,953.48	14.73	13.57	-105.66	4,690.74	307.09	4,813.44	4,785.19	28.25	170.401	
4,200.00	4,143.73	4,070.27	4,060.72	15.11	13.96	-105.79	4,693.83	320.51	4,822.64	4,793.63	29.02	166.196	
4,300.00	4,240.82	4,170.08	4,159.88	15.50	14.32	-105.94	4,696.55	331.56	4,831.79	4,802.04	29.76	162.374	
4,400.00	4,337.92	4,271.02	4,260.26	15.88	14.69	-106.09	4,699.22	341.88	4,840.91	4,810.41	30.50	158.712	
4,500.00	4,435.02	4,366.50	4,355.24	16.27	15.03	-106.24	4,701.78	351.35	4,850.12	4,818.89	31.23	155.327	
4,600.00	4,532.12	4,461.81	4,450.05	16.65	15.38	-106.39	4,704.34	360.72	4,859.37	4,827.42	31.95	152.097	
4,700.00	4,629.22	4,548.57	4,536.34	17.04	15.69	-106.52	4,706.87	369.28	4,868.88	4,836.24	32.64	149.165	
4,800.00	4,726.31	4,648.78	4,636.03	17.42	16.05	-106.68	4,709.87	379.14	4,878.50	4,845.11	33.38	146.130	
4,900.00	4,823.41	14,271.00	9,670.92	17.81	50.53	176.58	-198.38	443.04	4,819.23	4,770.01	49.22	97.918	
5,000.00	4,920.51	14,271.00	9,670.92	18.20	50.53	176.58	-198.38	443.04	4,723.19	4,673.72	49.46	95.489	
5,100.00	5,017.61	14,271.00	9,670.92	18.58	50.53	176.58	-198.38	443.04	4,627.31	4,577.59	49.72	93.071	
5,200.00	5,114.71	14,271.00	9,670.92	18.97	50.53	176.58	-198.38	443.04	4,531.62	4,481.63	49.98	90.665	
5,300.00	5,211.80	14,271.00	9,670.92	19.36	50.53	176.58	-198.38	443.04	4,436.11	4,385.85	50.26	88.272	
5,400.00	5,308.90	14,271.00	9,670.92	19.75	50.53	176.58	-198.38	443.04	4,340.80	4,290.27	50.54	85.892	
5,500.00	5,406.00	14,271.00	9,670.92	20.14	50.53	176.58	-198.38	443.04	4,245.72	4,194.88	50.83	83.525	
5,600.00	5,503.10	14,271.00	9,670.92	20.53	50.53	176.58	-198.38	443.04	4,150.86	4,099.72	51.14	81.173	

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 3H
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 3H	**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
5,700.00	5,600.20	14,294.58	9,670.86	20.91	50.66	175.58	-221.96	443.30	4,056.13	4,004.51	51.62	78.581	
5,800.00	5,697.30	14,298.28	9,670.86	21.30	50.68	175.43	-225.66	443.36	3,961.74	3,909.77	51.97	76.230	
5,900.00	5,794.39	14,302.13	9,670.86	21.69	50.70	175.26	-229.51	443.43	3,867.63	3,815.29	52.34	73.895	
6,000.00	5,891.49	14,306.12	9,670.87	22.09	50.73	175.09	-233.50	443.51	3,773.81	3,721.09	52.72	71.579	
6,100.00	5,988.59	14,310.27	9,670.89	22.48	50.75	174.92	-237.64	443.60	3,680.31	3,627.19	53.12	69.280	
6,200.00	6,085.69	14,314.58	9,670.91	22.87	50.78	174.73	-241.96	443.70	3,587.16	3,533.62	53.54	67.001	
6,300.00	6,182.79	14,319.07	9,670.93	23.26	50.80	174.54	-246.44	443.81	3,494.37	3,440.40	53.97	64.741	
6,400.00	6,279.88	14,323.74	9,670.96	23.65	50.83	174.34	-251.12	443.94	3,401.98	3,347.55	54.43	62.502	
6,500.00	6,376.98	14,328.62	9,670.99	24.04	50.86	174.13	-255.99	444.09	3,310.03	3,255.12	54.91	60.284	
6,600.00	6,474.08	14,333.70	9,671.04	24.43	50.89	173.92	-261.07	444.25	3,218.54	3,163.13	55.41	58.088	
6,700.00	6,571.18	14,339.02	9,671.09	24.82	50.92	173.69	-266.38	444.42	3,127.56	3,071.63	55.93	55.915	
6,800.00	6,668.28	14,344.57	9,671.15	25.22	50.95	173.45	-271.93	444.62	3,037.14	2,980.65	56.49	53.767	
6,900.00	6,765.37	14,350.38	9,671.22	25.61	50.98	173.20	-277.73	444.85	2,947.32	2,890.25	57.07	51.643	
7,000.00	6,862.47	14,366.00	9,671.45	26.00	51.07	172.53	-293.34	445.52	2,858.17	2,800.42	57.75	49.493	
7,100.00	6,959.57	14,366.00	9,671.45	26.39	51.07	172.53	-293.34	445.52	2,769.71	2,711.35	58.36	47.461	
7,200.00	7,056.67	14,374.38	9,671.58	26.78	51.12	172.17	-301.71	445.90	2,682.05	2,623.00	59.06	45.414	
7,300.00	7,153.77	14,389.48	9,671.79	27.18	51.21	171.52	-316.79	446.58	2,595.24	2,535.40	59.84	43.368	
7,400.00	7,250.86	14,403.46	9,671.93	27.57	51.29	170.92	-330.76	447.18	2,509.37	2,448.71	60.66	41.366	
7,500.00	7,347.96	14,416.44	9,672.03	27.96	51.37	170.35	-343.73	447.73	2,424.53	2,363.01	61.52	39.408	
7,600.00	7,445.06	14,428.53	9,672.09	28.36	51.44	169.83	-355.80	448.22	2,340.85	2,278.42	62.43	37.496	
7,700.00	7,542.16	14,439.81	9,672.12	28.75	51.50	169.34	-367.08	448.67	2,258.46	2,195.07	63.39	35.631	
7,800.00	7,639.26	14,450.36	9,672.13	29.14	51.56	168.87	-377.62	449.08	2,177.51	2,113.11	64.40	33.814	
7,900.00	7,736.36	14,460.26	9,672.12	29.54	51.62	168.44	-387.51	449.46	2,098.17	2,032.70	65.47	32.049	
7,902.86	7,739.13	14,460.53	9,672.11	29.55	51.62	168.43	-387.79	449.47	2,095.92	2,030.43	65.50	31.999	
7,950.00	7,784.76	14,467.69	9,672.09	29.73	51.66	156.88	-394.94	449.73	2,059.18	1,993.14	66.04	31.180	
8,000.00	7,832.63	14,471.81	9,672.10	29.93	51.69	149.03	-399.05	449.90	2,020.92	1,954.31	66.60	30.342	
8,050.00	7,879.58	14,482.86	9,672.12	30.12	51.75	144.60	-410.10	450.34	1,983.65	1,916.43	67.22	29.511	
8,100.00	7,925.27	14,497.42	9,672.18	30.31	51.84	142.45	-424.64	450.95	1,947.65	1,879.80	67.85	28.704	
8,150.00	7,969.35	14,515.44	9,672.33	30.49	51.94	141.61	-442.65	451.75	1,913.20	1,844.69	68.51	27.925	
8,200.00	8,011.47	14,536.87	9,672.59	30.67	52.07	141.46	-464.05	452.76	1,880.51	1,811.33	69.18	27.182	
8,250.00	8,051.32	14,566.27	9,673.09	30.83	52.24	141.57	-493.41	454.24	1,849.80	1,779.90	69.89	26.466	
8,300.00	8,088.60	14,608.40	9,673.63	30.99	52.49	141.67	-535.48	456.32	1,821.06	1,750.39	70.67	25.768	
8,350.00	8,123.02	14,653.75	9,673.88	31.14	52.76	141.91	-580.78	458.45	1,794.35	1,722.90	71.45	25.113	
8,400.00	8,154.32	14,690.17	9,673.94	31.28	52.98	142.39	-617.17	460.02	1,769.92	1,697.77	72.15	24.531	
8,450.00	8,182.27	14,730.61	9,673.91	31.42	53.22	142.84	-657.58	461.59	1,747.94	1,675.09	72.85	23.994	
8,500.00	8,206.64	14,765.00	9,673.92	31.54	53.42	143.35	-691.94	462.84	1,728.60	1,655.12	73.48	23.526	
8,550.00	8,227.26	14,798.76	9,674.25	31.66	53.63	143.83	-725.68	464.13	1,712.17	1,638.12	74.06	23.120	
8,600.00	8,243.96	14,834.00	9,674.94	31.78	53.84	144.25	-760.88	465.56	1,698.76	1,624.16	74.60	22.771	
8,621.67	8,249.95	14,853.34	9,675.44	31.83	53.95	144.40	-780.20	466.37	1,693.89	1,619.04	74.85	22.631	
8,700.00	8,267.63	14,924.61	9,677.55	32.00	54.39	144.62	-851.37	469.48	1,679.51	1,603.79	75.71	22.182	
8,800.00	8,282.55	14,995.30	9,678.84	32.23	54.82	144.77	-922.02	470.24	1,668.43	1,591.76	76.67	21.762	
8,900.00	8,288.79	15,131.36	9,676.24	32.46	55.64	144.48	-1,057.90	463.88	1,664.89	1,586.75	78.14	21.308	
8,921.67	8,289.00	15,157.64	9,675.40	32.51	55.80	144.43	-1,084.15	462.94	1,664.67	1,586.25	78.42	21.228	
9,000.00	8,289.00	15,232.37	9,673.20	32.69	56.25	144.33	-1,158.82	461.02	1,664.17	1,584.90	79.27	20.993	
9,008.98	8,289.00	15,238.20	9,673.08	32.71	56.29	144.32	-1,164.65	460.89	1,664.16	1,584.82	79.35	20.973	
9,100.00	8,289.00	15,303.00	9,672.61	32.94	56.68	144.26	-1,229.43	459.35	1,665.05	1,584.89	80.16	20.771	
9,200.00	8,289.00	15,424.48	9,672.04	33.20	57.43	144.15	-1,350.87	456.48	1,666.39	1,584.93	81.46	20.455	
9,300.00	8,289.00	15,539.84	9,669.53	33.48	58.15	144.04	-1,466.19	454.66	1,665.75	1,583.01	82.74	20.131	
9,400.00	8,289.00	15,633.90	9,667.64	33.77	58.73	143.94	-1,560.21	453.02	1,665.41	1,581.54	83.87	19.857	
9,500.00	8,289.00	15,735.97	9,666.40	34.07	59.38	143.88	-1,662.27	452.32	1,665.09	1,580.02	85.06	19.575	
9,560.99	8,289.00	15,790.40	9,665.74	34.26	59.72	143.86	-1,716.70	451.98	1,664.88	1,579.15	85.73	19.420	
9,600.00	8,289.00	15,818.15	9,665.47	34.38	59.89	143.84	-1,744.44	451.58	1,665.01	1,578.91	86.11	19.337	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.00	8,289.00	15,928.81	9,664.77	34.70	60.59	143.74	-1,855.08	449.08	1,666.17	1,578.76	87.41	19.062	
9,800.00	8,289.00	16,036.91	9,663.49	35.04	61.28	143.69	-1,963.16	448.89	1,665.56	1,576.87	88.68	18.781	
9,855.95	8,289.00	16,085.43	9,663.01	35.24	61.59	143.67	-2,011.68	448.66	1,665.42	1,576.11	89.31	18.648	
9,900.00	8,289.00	16,122.60	9,662.62	35.39	61.83	143.65	-2,048.85	448.17	1,665.51	1,575.71	89.79	18.548	
10,000.00	8,289.00	16,190.76	9,662.05	35.75	62.26	143.57	-2,116.98	446.35	1,666.74	1,575.97	90.77	18.363	
10,100.00	8,289.00	16,373.09	9,660.78	36.12	63.43	143.44	-2,299.18	443.25	1,668.16	1,575.43	92.72	17.991	
10,200.00	8,289.00	16,462.34	9,659.45	36.51	64.02	143.46	-2,388.39	445.32	1,665.85	1,571.97	93.88	17.744	
10,300.00	8,289.00	16,551.45	9,658.27	36.90	64.60	143.46	-2,477.49	446.47	1,664.26	1,569.21	95.05	17.509	
10,400.00	8,289.00	16,652.85	9,656.62	37.31	65.26	143.42	-2,578.87	446.76	1,663.06	1,566.71	96.34	17.262	
10,500.00	8,289.00	16,741.95	9,655.80	37.72	65.85	143.43	-2,667.95	448.34	1,661.58	1,564.05	97.53	17.037	
10,531.82	8,289.00	16,761.56	9,655.71	37.86	65.98	143.43	-2,687.56	448.43	1,661.46	1,563.63	97.83	16.983	
10,600.00	8,289.00	16,805.00	9,655.59	38.15	66.26	143.41	-2,731.00	447.86	1,662.00	1,563.50	98.50	16.874	
10,700.00	8,289.00	16,982.45	9,653.42	38.58	67.44	143.43	-2,908.37	451.18	1,659.40	1,558.96	100.44	16.522	
10,800.00	8,289.00	17,074.84	9,652.23	39.03	68.05	143.49	-3,000.69	454.60	1,656.43	1,554.76	101.67	16.293	
10,900.00	8,289.00	17,180.39	9,650.44	39.48	68.76	143.53	-3,106.18	457.66	1,653.61	1,550.59	103.01	16.052	
11,000.00	8,289.00	17,285.06	9,648.13	39.94	69.46	143.55	-3,210.77	460.75	1,650.33	1,545.97	104.37	15.813	
11,100.00	8,289.00	17,369.00	9,646.87	40.41	70.03	143.59	-3,294.66	463.36	1,647.54	1,541.98	105.56	15.608	
11,200.00	8,289.00	17,481.32	9,645.30	40.89	70.79	143.64	-3,406.92	466.81	1,644.86	1,537.88	106.98	15.375	
11,300.00	8,289.00	17,578.63	9,643.56	41.38	71.45	143.69	-3,504.15	470.37	1,641.52	1,533.23	108.29	15.158	
11,400.00	8,289.00	17,651.00	9,642.88	41.88	71.94	143.72	-3,576.49	472.03	1,639.59	1,530.19	109.40	14.986	
11,500.00	8,289.00	17,743.33	9,642.19	42.38	72.56	143.71	-3,668.82	472.73	1,638.78	1,528.09	110.70	14.804	
11,600.00	8,289.00	17,854.11	9,640.52	42.89	73.31	143.68	-3,779.58	473.23	1,637.56	1,525.39	112.17	14.599	
11,700.00	8,289.00	17,948.19	9,639.04	43.41	73.95	143.64	-3,873.65	473.58	1,636.33	1,522.84	113.50	14.418	
11,800.00	8,289.00	18,052.61	9,637.16	43.93	74.67	143.60	-3,978.06	473.70	1,635.07	1,520.15	114.93	14.227	
11,900.00	8,289.00	18,153.17	9,635.06	44.46	75.35	143.54	-4,078.59	473.67	1,633.67	1,517.34	116.33	14.044	
12,000.00	8,289.00	18,255.65	9,632.80	45.00	76.06	143.47	-4,181.04	473.51	1,632.25	1,514.50	117.76	13.861	
12,100.00	8,289.00	18,355.70	9,629.41	45.55	76.74	143.35	-4,281.03	472.21	1,630.58	1,511.40	119.18	13.682	
12,200.00	8,289.00	18,446.11	9,627.61	46.10	77.36	143.30	-4,371.42	472.15	1,629.28	1,508.78	120.50	13.521	
12,300.00	8,289.00	18,532.14	9,625.49	46.65	77.96	143.20	-4,457.41	470.52	1,628.71	1,506.91	121.80	13.372	
12,310.31	8,289.00	18,540.71	9,625.34	46.71	78.02	143.19	-4,465.97	470.38	1,628.70	1,506.77	121.93	13.358	
12,400.00	8,289.00	18,623.86	9,625.05	47.21	78.59	143.16	-4,549.12	469.81	1,629.04	1,505.91	123.13	13.230	
12,500.00	8,289.00	18,731.54	9,625.11	47.78	79.33	143.16	-4,656.80	470.21	1,629.12	1,504.51	124.62	13.073	
12,600.00	8,289.00	18,839.06	9,624.27	48.35	80.08	143.12	-4,764.31	469.97	1,628.91	1,502.80	126.11	12.917	
12,688.23	8,289.00	18,918.64	9,623.80	48.86	80.63	143.11	-4,843.89	470.33	1,628.50	1,501.22	127.28	12.795	CC
12,688.51	8,289.00	18,918.86	9,623.79	48.86	80.63	143.11	-4,844.11	470.33	1,628.50	1,501.22	127.28	12.795	
12,700.00	8,289.00	18,927.96	9,623.75	48.93	80.69	143.11	-4,853.21	470.30	1,628.57	1,501.15	127.42	12.781	ES
12,750.00	8,289.00	18,968.22	9,623.56	49.23	80.97	143.18	-4,893.47	469.91	1,630.61	1,502.55	128.06	12.733	
12,800.00	8,289.00	19,029.80	9,622.94	49.53	81.40	143.22	-4,955.04	468.99	1,635.06	1,506.12	128.95	12.680	
12,850.00	8,289.00	19,078.25	9,622.08	49.84	81.74	143.39	-5,003.47	468.22	1,641.74	1,512.00	129.74	12.654	SF
12,900.00	8,289.00	19,113.09	9,621.82	50.15	81.98	143.80	-5,038.31	467.80	1,651.18	1,520.77	130.41	12.662	
12,950.00	8,289.00	19,155.00	9,622.11	50.47	82.27	144.29	-5,080.22	467.50	1,663.49	1,532.32	131.17	12.682	
13,000.00	8,289.00	19,198.10	9,622.55	50.79	82.57	144.90	-5,123.31	467.27	1,678.35	1,546.39	131.96	12.719	
13,050.00	8,289.00	19,252.47	9,622.57	51.10	82.95	145.44	-5,177.69	466.88	1,695.38	1,562.49	132.89	12.758	
13,100.00	8,289.00	19,284.01	9,622.35	51.40	83.17	146.50	-5,209.22	466.35	1,714.87	1,581.28	133.59	12.837	
13,150.00	8,289.00	19,307.00	9,622.17	51.70	83.33	147.97	-5,232.20	465.92	1,736.88	1,602.68	134.20	12.942	
13,200.00	8,289.00	19,307.00	9,622.17	51.99	83.33	150.29	-5,232.20	465.92	1,761.78	1,627.25	134.53	13.096	
13,250.00	8,289.00	19,307.00	9,622.17	52.26	83.33	153.04	-5,232.20	465.92	1,789.44	1,654.61	134.82	13.273	
13,300.00	8,289.00	19,307.00	9,622.17	52.52	83.33	156.25	-5,232.20	465.92	1,819.54	1,684.45	135.09	13.469	
13,350.00	8,289.00	19,307.00	9,622.17	52.77	83.33	159.94	-5,232.20	465.92	1,851.77	1,716.43	135.34	13.682	
13,400.00	8,289.00	19,307.00	9,622.17	53.00	83.33	164.11	-5,232.20	465.92	1,885.82	1,750.23	135.59	13.909	
13,450.00	8,289.00	19,307.00	9,622.17	53.20	83.33	168.73	-5,232.20	465.92	1,921.35	1,785.53	135.82	14.146	
13,500.00	8,289.00	19,307.00	9,622.17	53.39	83.33	173.77	-5,232.20	465.92	1,958.06	1,822.00	136.06	14.391	

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 3H
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 3H	**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
13,550.00	8,289.00	19,307.00	9,622.17	53.55	83.33	179.12	-5,232.20	465.92	1,995.64	1,859.33	136.31	14.641	
13,600.00	8,289.00	19,307.00	9,622.17	53.69	83.33	-175.32	-5,232.20	465.92	2,033.79	1,897.24	136.55	14.894	
13,650.00	8,289.00	19,307.00	9,622.17	53.80	83.33	-169.71	-5,232.20	465.92	2,072.24	1,935.43	136.81	15.147	
13,700.00	8,289.00	19,307.00	9,622.17	53.89	83.33	-164.19	-5,232.20	465.92	2,110.71	1,973.64	137.06	15.399	
13,750.00	8,289.00	19,307.00	9,622.17	53.96	83.33	-158.89	-5,232.20	465.92	2,148.94	2,011.62	137.32	15.649	
13,800.00	8,289.00	19,307.00	9,622.17	54.00	83.33	-153.91	-5,232.20	465.92	2,186.71	2,049.13	137.59	15.893	
13,850.00	8,289.00	19,307.00	9,622.17	54.02	83.33	-149.33	-5,232.20	465.92	2,223.79	2,085.94	137.85	16.132	
13,900.00	8,289.00	19,307.00	9,622.17	54.01	83.33	-145.18	-5,232.20	465.92	2,259.96	2,121.85	138.11	16.364	
13,950.00	8,289.00	19,307.00	9,622.17	53.99	83.33	-141.47	-5,232.20	465.92	2,295.03	2,156.67	138.36	16.588	
14,000.00	8,289.00	19,307.00	9,622.17	53.94	83.33	-138.17	-5,232.20	465.92	2,328.82	2,190.22	138.60	16.803	
14,050.00	8,289.00	19,307.00	9,622.17	53.88	83.33	-135.26	-5,232.20	465.92	2,361.15	2,222.33	138.82	17.008	
14,100.00	8,289.00	19,307.00	9,622.17	53.80	83.33	-132.71	-5,232.20	465.92	2,391.88	2,252.85	139.04	17.203	
14,150.00	8,289.00	19,291.24	9,622.29	53.70	83.22	-130.30	-5,216.45	466.22	2,420.82	2,281.77	139.04	17.410	
14,200.00	8,289.00	19,259.86	9,622.53	53.59	83.00	-128.09	-5,185.08	466.79	2,447.38	2,308.52	138.86	17.624	
14,250.00	8,289.00	19,224.35	9,622.64	53.47	82.75	-126.21	-5,149.56	467.10	2,471.47	2,332.83	138.64	17.827	
14,300.00	8,289.00	19,171.21	9,622.32	53.33	82.38	-124.54	-5,096.43	467.42	2,492.58	2,354.37	138.21	18.034	
14,350.00	8,289.00	19,128.74	9,621.85	53.20	82.09	-123.27	-5,053.96	467.66	2,510.55	2,372.62	137.92	18.203	
14,400.00	8,289.00	19,090.17	9,621.94	53.05	81.82	-122.30	-5,015.39	468.06	2,525.45	2,387.76	137.69	18.342	
14,450.00	8,289.00	19,045.58	9,622.68	52.91	81.51	-121.57	-4,970.81	468.74	2,537.17	2,399.78	137.39	18.466	
14,500.00	8,289.00	18,986.36	9,623.45	52.76	81.10	-121.05	-4,911.61	469.64	2,545.38	2,408.43	136.94	18.587	
14,530.51	8,289.00	18,966.00	9,623.57	52.67	80.96	-120.86	-4,891.25	469.94	2,548.62	2,411.76	136.86	18.623	
14,600.00	8,289.00	18,913.15	9,623.82	52.46	80.59	-120.74	-4,838.40	470.34	2,553.85	2,417.27	136.59	18.698	
14,700.00	8,289.00	18,820.27	9,624.42	52.18	79.95	-120.63	-4,745.52	469.93	2,558.86	2,422.84	136.02	18.812	
14,762.01	8,289.00	18,749.68	9,625.02	52.01	79.46	-120.62	-4,674.94	470.19	2,559.49	2,423.95	135.55	18.883	
14,800.00	8,289.00	18,717.12	9,625.15	51.90	79.23	-120.63	-4,642.38	470.19	2,559.43	2,424.06	135.37	18.907	
14,900.00	8,289.00	18,600.21	9,625.01	51.64	78.43	-120.63	-4,525.47	469.85	2,559.28	2,424.70	134.58	19.017	
15,000.00	8,289.00	18,497.00	9,626.31	51.38	77.72	-120.67	-4,422.29	471.28	2,558.34	2,424.38	133.96	19.098	
15,072.21	8,289.00	18,446.23	9,627.61	51.20	77.37	-120.71	-4,371.54	472.15	2,557.97	2,424.20	133.78	19.121	
15,100.00	8,289.00	18,428.26	9,627.97	51.14	77.24	-120.72	-4,353.57	472.25	2,558.03	2,424.31	133.72	19.130	
15,200.00	8,289.00	18,322.49	9,630.47	50.90	76.51	-120.78	-4,247.84	472.57	2,558.61	2,425.52	133.10	19.224	
15,300.00	8,289.00	18,232.70	9,633.40	50.66	75.90	-120.85	-4,158.10	473.64	2,558.89	2,426.23	132.66	19.290	
15,400.00	8,289.00	18,135.43	9,635.43	50.44	75.23	-120.89	-4,060.85	473.67	2,559.55	2,427.41	132.14	19.369	
15,500.00	8,289.00	18,035.87	9,637.49	50.23	74.55	-120.94	-3,961.32	473.69	2,560.23	2,428.61	131.62	19.451	
15,600.00	8,289.00	17,933.00	9,639.27	50.02	73.85	-120.98	-3,858.46	473.54	2,560.87	2,429.79	131.08	19.537	
15,700.00	8,289.00	17,847.67	9,640.63	49.82	73.27	-121.00	-3,773.14	473.19	2,561.67	2,430.96	130.71	19.598	
15,800.00	8,289.00	17,730.58	9,642.33	49.64	72.47	-121.03	-3,656.07	472.69	2,562.40	2,432.34	130.05	19.703	
15,900.00	8,289.00	17,651.00	9,642.88	49.46	71.94	-121.04	-3,576.49	472.03	2,563.13	2,433.37	129.76	19.753	
16,000.00	8,289.00	17,591.42	9,643.38	49.29	71.53	-121.04	-3,516.93	470.77	2,565.08	2,435.44	129.63	19.787	
16,100.00	8,289.00	17,511.50	9,644.78	49.13	70.99	-121.04	-3,437.08	467.86	2,568.64	2,439.31	129.33	19.862	
16,200.00	8,289.00	17,387.56	9,646.67	48.98	70.15	-121.03	-3,313.21	463.89	2,571.80	2,443.14	128.66	19.989	
16,300.00	8,289.00	17,303.87	9,647.78	48.84	69.59	-121.03	-3,229.56	461.38	2,574.70	2,446.36	128.34	20.062	
16,400.00	8,289.00	17,194.93	9,650.10	48.71	68.86	-121.04	-3,120.71	458.01	2,578.08	2,450.26	127.82	20.169	
16,500.00	8,289.00	17,096.36	9,651.97	48.59	68.20	-121.05	-3,022.19	455.31	2,581.04	2,453.63	127.40	20.259	
16,600.00	8,289.00	17,010.82	9,653.04	48.48	67.63	-121.04	-2,936.72	452.29	2,584.34	2,457.24	127.09	20.334	
16,700.00	8,289.00	16,828.78	9,655.37	48.38	66.42	-121.04	-2,754.77	447.95	2,586.92	2,460.92	126.01	20.530	
16,761.46	8,289.00	16,756.35	9,655.73	48.32	65.94	-121.06	-2,682.35	448.42	2,586.41	2,460.73	125.68	20.580	
16,800.00	8,289.00	16,739.51	9,655.82	48.29	65.83	-121.06	-2,665.52	448.32	2,586.57	2,460.86	125.71	20.575	
16,900.00	8,289.00	16,639.75	9,656.82	48.21	65.18	-121.07	-2,565.78	446.67	2,588.12	2,462.79	125.33	20.650	
17,000.00	8,289.00	16,544.33	9,658.37	48.15	64.55	-121.10	-2,470.37	446.42	2,588.82	2,463.81	125.01	20.709	
17,100.00	8,289.00	16,466.87	9,659.39	48.09	64.05	-121.11	-2,392.92	445.40	2,590.26	2,465.43	124.83	20.750	
17,200.00	8,289.00	16,206.86	9,662.01	48.05	62.36	-121.18	-2,133.06	445.66	2,592.32	2,469.21	123.12	21.056	
17,300.00	8,289.00	16,147.00	9,662.36	48.01	61.98	-121.21	-2,073.24	447.70	2,589.14	2,465.96	123.18	21.019	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,400.00	8,289.00	16,096.13	9,662.90	47.99	61.66	-121.23	-2,022.38	448.54	2,587.62	2,464.33	123.29	20.988	
17,484.65	8,289.00	16,032.92	9,663.54	47.99	61.25	-121.25	-1,959.17	448.90	2,587.32	2,464.11	123.21	20.999	
17,500.00	8,289.00	16,019.43	9,663.68	47.99	61.17	-121.25	-1,945.68	448.93	2,587.33	2,464.15	123.18	21.005	
17,600.00	8,289.00	15,866.00	9,665.19	47.99	60.19	-121.31	-1,792.28	450.39	2,586.80	2,464.34	122.46	21.124	
17,700.00	8,289.00	15,795.47	9,665.68	48.01	59.75	-121.34	-1,721.77	451.92	2,585.06	2,462.64	122.42	21.116	
17,800.00	8,289.00	15,711.60	9,666.69	48.04	59.22	-121.37	-1,637.91	452.45	2,584.73	2,462.45	122.28	21.138	
17,900.00	8,289.00	15,592.60	9,668.38	48.08	58.48	-121.42	-1,518.93	453.67	2,584.24	2,462.36	121.88	21.203	
18,000.00	8,289.00	15,509.53	9,670.26	48.14	57.96	-121.48	-1,435.89	455.13	2,583.56	2,461.78	121.78	21.215	
18,100.00	8,289.00	15,360.28	9,672.63	48.21	57.04	-121.56	-1,286.69	457.96	2,582.45	2,461.26	121.19	21.310	
18,200.00	8,289.00	15,267.32	9,672.67	48.29	56.47	-121.59	-1,193.76	460.22	2,580.05	2,459.03	121.02	21.319	
18,300.00	8,289.00	15,194.98	9,674.23	48.39	56.02	-121.64	-1,121.46	461.86	2,578.81	2,457.78	121.03	21.308	
18,400.00	8,289.00	15,022.00	9,678.74	48.50	54.98	-121.82	-948.70	469.12	2,576.02	2,455.68	120.34	21.407	
18,500.00	8,289.00	14,976.71	9,678.72	48.63	54.70	-121.84	-903.44	470.56	2,573.18	2,452.61	120.57	21.342	
18,548.51	8,289.00	14,959.07	9,678.46	48.69	54.60	-121.84	-885.80	470.52	2,572.71	2,452.02	120.69	21.317	
18,600.00	8,289.00	14,928.00	9,677.66	48.76	54.41	-121.81	-854.75	469.64	2,572.93	2,452.22	120.71	21.315	
18,700.00	8,289.00	14,863.70	9,675.72	48.92	54.02	-121.75	-790.55	466.81	2,574.48	2,453.77	120.70	21.329	
18,800.00	8,289.00	14,778.67	9,674.01	49.08	53.51	-121.68	-705.60	463.35	2,576.51	2,455.95	120.56	21.371	
18,900.00	8,289.00	14,695.96	9,673.94	49.26	53.01	-121.65	-622.95	460.26	2,579.28	2,458.82	120.45	21.413	
19,000.00	8,289.00	14,599.65	9,673.54	49.46	52.44	-121.59	-526.74	455.90	2,582.54	2,462.28	120.27	21.474	
19,100.00	8,289.00	14,493.42	9,672.16	50.02	51.82	-121.51	-420.65	450.78	2,585.59	2,465.79	119.81	21.581	
19,101.33	8,289.00	14,492.05	9,672.15	50.05	51.81	-121.51	-419.28	450.72	2,585.63	2,465.83	119.80	21.583	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	29.61	29.61	0.00	0.05	1.73	4,645.13	140.36	4,647.25				
100.00	100.00	122.13	122.12	0.28	0.19	1.73	4,645.26	140.18	4,647.38	4,646.91	0.47	9,889.153	
200.00	200.00	229.82	229.82	0.63	0.42	1.72	4,645.55	139.69	4,647.65	4,646.59	1.06	4,402.507	
300.00	300.00	405.68	405.66	0.99	1.04	1.71	4,644.10	138.39	4,646.75	4,644.72	2.03	2,284.986	
400.00	400.00	506.26	506.23	1.35	1.39	1.71	4,642.43	138.30	4,645.08	4,642.34	2.74	1,693.128	
500.00	500.00	591.80	591.76	1.71	1.69	1.71	4,641.22	138.72	4,643.68	4,640.28	3.40	1,365.546	
600.00	600.00	719.88	719.82	2.07	2.14	1.73	4,639.06	139.72	4,642.00	4,637.79	4.21	1,102.672	
700.00	700.00	794.14	794.07	2.43	2.41	1.73	4,637.77	139.92	4,640.30	4,635.47	4.83	960.297	
800.00	800.00	858.64	858.56	2.79	2.64	1.73	4,637.17	139.66	4,639.35	4,633.93	5.42	856.066	
900.00	900.00	933.00	932.92	3.14	2.90	1.72	4,637.06	139.08	4,639.15	4,633.11	6.04	768.159	
900.93	900.93	933.00	932.92	3.15	2.90	1.72	4,637.06	139.08	4,639.15	4,633.10	6.04	767.738	
1,000.00	1,000.00	1,025.32	1,025.24	3.50	3.22	1.71	4,637.26	138.08	4,639.32	4,632.60	6.72	690.380	
1,100.00	1,100.00	1,153.64	1,153.54	3.86	3.67	1.69	4,637.06	136.53	4,639.12	4,631.59	7.53	615.895	
1,200.00	1,200.00	1,270.11	1,270.01	4.22	4.09	1.67	4,636.37	135.21	4,638.50	4,630.19	8.31	558.455	
1,300.00	1,300.00	1,385.01	1,384.89	4.58	4.50	1.66	4,635.26	134.02	4,637.50	4,628.43	9.07	511.031	
1,400.00	1,400.00	1,491.20	1,491.08	4.94	4.88	1.65	4,633.99	133.08	4,636.28	4,626.47	9.81	472.474	
1,500.00	1,500.00	1,550.86	1,550.73	5.29	5.09	1.64	4,633.47	132.66	4,635.41	4,625.03	10.38	446.533	
1,539.35	1,539.35	1,572.91	1,572.78	5.44	5.17	1.64	4,633.42	132.57	4,635.32	4,624.72	10.60	437.335	
1,600.00	1,600.00	1,594.00	1,593.87	5.65	5.24	1.64	4,633.46	132.51	4,635.51	4,624.62	10.89	425.678	
1,700.00	1,700.00	1,689.00	1,688.86	6.01	5.57	1.63	4,634.31	132.19	4,636.40	4,624.83	11.57	400.623	
1,800.00	1,800.00	1,750.69	1,750.54	6.37	5.78	1.63	4,635.32	131.72	4,637.91	4,625.76	12.14	381.968	
1,900.00	1,899.98	1,835.76	1,835.59	6.72	6.07	-103.08	4,637.00	130.49	4,640.23	4,627.45	12.78	362.988	
2,000.00	1,999.84	1,945.84	1,945.63	7.06	6.45	-103.11	4,639.32	128.99	4,643.51	4,630.00	13.50	343.899	
2,100.00	2,099.45	2,124.07	2,123.76	7.40	7.06	-103.18	4,641.03	134.18	4,646.55	4,632.10	14.45	321.529	
2,200.00	2,198.70	2,347.79	2,347.33	7.74	7.83	-103.39	4,637.09	140.79	4,647.03	4,631.47	15.56	298.634	
2,300.00	2,297.47	2,418.76	2,418.27	8.09	8.07	-103.48	4,635.49	142.07	4,648.47	4,632.32	16.16	287.725	
2,400.00	2,395.62	2,495.30	2,494.80	8.44	8.34	-103.59	4,634.22	142.53	4,651.33	4,634.56	16.77	277.300	
2,491.84	2,485.13	2,577.53	2,577.02	8.76	8.63	-103.74	4,633.10	142.65	4,655.03	4,637.64	17.39	267.745	
2,500.00	2,493.06	2,584.90	2,584.39	8.79	8.66	-103.76	4,633.01	142.67	4,655.40	4,637.96	17.44	266.925	
2,600.00	2,590.16	2,674.36	2,673.84	9.14	8.97	-104.01	4,631.93	142.97	4,660.07	4,641.96	18.11	257.313	
2,700.00	2,687.25	2,768.52	2,768.00	9.50	9.30	-104.27	4,630.96	143.39	4,665.02	4,646.22	18.80	248.146	
2,800.00	2,784.35	2,870.03	2,869.50	9.86	9.66	-104.56	4,629.80	143.74	4,669.97	4,650.45	19.52	239.270	
2,900.00	2,881.45	2,965.67	2,965.13	10.23	10.00	-104.83	4,628.77	144.07	4,675.09	4,654.87	20.22	231.234	
3,000.00	2,978.55	3,068.64	3,068.10	10.60	10.37	-105.12	4,627.56	144.33	4,680.23	4,659.28	20.95	223.432	
3,100.00	3,075.65	3,165.67	3,165.11	10.96	10.71	-105.40	4,626.34	143.71	4,685.42	4,663.76	21.66	216.343	
3,200.00	3,172.74	3,270.69	3,270.10	11.34	11.08	-105.72	4,624.97	141.34	4,690.72	4,668.33	22.40	209.436	
3,300.00	3,269.84	3,362.86	3,362.18	11.71	11.41	-106.02	4,623.58	137.72	4,696.01	4,672.91	23.09	203.363	
3,400.00	3,366.94	3,439.87	3,439.10	12.08	11.68	-106.29	4,622.62	133.97	4,701.72	4,677.99	23.73	198.103	
3,500.00	3,464.04	3,515.71	3,514.81	12.46	11.94	-106.55	4,622.01	129.51	4,708.05	4,683.68	24.37	193.175	
3,600.00	3,561.14	3,587.00	3,585.93	12.83	12.20	-106.81	4,621.60	124.67	4,714.86	4,689.86	24.99	188.641	
3,700.00	3,658.24	3,666.87	3,665.56	13.21	12.48	-107.10	4,621.45	118.55	4,722.24	4,696.59	25.65	184.126	
3,800.00	3,755.33	3,728.19	3,726.65	13.59	12.69	-107.33	4,621.70	113.24	4,730.42	4,704.19	26.23	180.330	
3,900.00	3,852.43	3,789.08	3,787.24	13.97	12.90	-107.57	4,622.36	107.18	4,739.51	4,712.69	26.81	176.750	
4,000.00	3,949.53	3,856.22	3,853.93	14.35	13.14	-107.85	4,623.43	99.51	4,749.40	4,721.98	27.42	173.214	
4,100.00	4,046.63	3,942.81	3,939.74	14.73	13.44	-108.22	4,625.05	88.11	4,759.91	4,731.81	28.10	169.417	
4,200.00	4,143.73	4,018.62	4,014.71	15.11	13.71	-108.55	4,626.48	76.89	4,770.83	4,742.10	28.73	166.043	
4,300.00	4,240.82	4,084.25	4,079.50	15.50	13.94	-108.85	4,627.96	66.54	4,782.47	4,753.14	29.33	163.057	
4,400.00	4,337.92	4,153.00	4,147.31	15.88	14.18	-109.16	4,629.98	55.40	4,795.01	4,765.07	29.94	160.161	
4,500.00	4,435.02	4,207.51	4,201.05	16.27	14.37	-109.41	4,631.92	46.46	4,808.40	4,777.91	30.49	157.700	
4,600.00	4,532.12	4,288.76	4,281.12	16.65	14.65	-109.78	4,635.15	33.02	4,822.54	4,791.40	31.15	154.832	
4,700.00	4,629.22	4,386.64	4,377.52	17.04	15.00	-110.23	4,638.91	16.54	4,836.89	4,805.02	31.87	151.770	
4,800.00	4,726.31	4,476.84	4,466.34	17.42	15.32	-110.64	4,642.34	1.17	4,851.51	4,818.95	32.56	148.987	

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 3H
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 3H	**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
4,900.00	4,823.41	4,569.88	4,557.88	17.81	15.65	-111.07	4,645.83	-15.07	4,866.45	4,833.18	33.27	146.275	
5,000.00	4,920.51	4,683.74	4,669.88	18.20	16.05	-111.59	4,649.84	-35.19	4,881.52	4,847.46	34.06	143.318	
5,100.00	5,017.61	4,778.09	4,762.67	18.58	16.39	-112.02	4,652.72	-52.01	4,896.47	4,861.69	34.77	140.806	
5,200.00	5,114.71	14,434.18	9,896.73	18.97	50.83	174.16	-155.58	-217.11	4,839.14	4,788.37	50.77	95.324	
5,300.00	5,211.80	14,439.58	9,896.77	19.36	50.86	174.01	-160.97	-217.08	4,748.46	4,697.34	51.12	92.880	
5,400.00	5,308.90	14,445.04	9,896.81	19.75	50.89	173.86	-166.44	-217.05	4,658.16	4,606.66	51.50	90.456	
5,500.00	5,406.00	14,460.00	9,896.94	20.14	50.98	173.44	-181.40	-216.96	4,568.26	4,516.32	51.94	87.945	
5,600.00	5,503.10	14,460.00	9,896.94	20.53	50.98	173.44	-181.40	-216.96	4,478.77	4,426.46	52.30	85.628	
5,700.00	5,600.20	14,460.00	9,896.94	20.91	50.98	173.44	-181.40	-216.96	4,389.72	4,337.04	52.68	83.329	
5,800.00	5,697.30	14,460.00	9,896.94	21.30	50.98	173.44	-181.40	-216.96	4,301.16	4,248.09	53.07	81.049	
5,900.00	5,794.39	14,460.00	9,896.94	21.69	50.98	173.44	-181.40	-216.96	4,213.11	4,159.63	53.47	78.789	
6,000.00	5,891.49	14,476.02	9,897.11	22.09	51.07	172.99	-197.42	-216.84	4,125.56	4,071.55	54.00	76.396	
6,100.00	5,988.59	14,481.06	9,897.17	22.48	51.10	172.85	-202.46	-216.79	4,038.59	3,984.12	54.47	74.137	
6,200.00	6,085.69	14,486.21	9,897.23	22.87	51.13	172.70	-207.60	-216.75	3,952.24	3,897.27	54.97	71.903	
6,300.00	6,182.79	14,491.46	9,897.30	23.26	51.16	172.55	-212.86	-216.70	3,866.54	3,811.06	55.48	69.695	
6,400.00	6,279.88	14,496.83	9,897.38	23.65	51.19	172.40	-218.23	-216.65	3,781.52	3,725.51	56.01	67.514	
6,500.00	6,376.98	14,502.33	9,897.46	24.04	51.22	172.25	-223.72	-216.60	3,697.24	3,640.68	56.57	65.361	
6,600.00	6,474.08	14,507.94	9,897.55	24.43	51.25	172.09	-229.33	-216.54	3,613.76	3,556.61	57.15	63.237	
6,700.00	6,571.18	14,513.69	9,897.64	24.82	51.28	171.93	-235.08	-216.48	3,531.12	3,473.37	57.75	61.143	
6,800.00	6,668.28	14,519.56	9,897.75	25.22	51.32	171.76	-240.95	-216.41	3,449.38	3,391.00	58.38	59.081	
6,900.00	6,765.37	14,525.57	9,897.86	25.61	51.35	171.59	-246.96	-216.34	3,368.62	3,309.58	59.04	57.052	
7,000.00	6,862.47	14,531.73	9,897.97	26.00	51.39	171.42	-253.11	-216.27	3,288.90	3,229.16	59.73	55.058	
7,100.00	6,959.57	14,538.03	9,898.10	26.39	51.42	171.24	-259.41	-216.19	3,210.30	3,149.84	60.46	53.100	
7,200.00	7,056.67	14,553.00	9,898.42	26.78	51.51	170.82	-274.38	-215.99	3,132.91	3,071.65	61.27	51.136	
7,300.00	7,153.77	14,553.00	9,898.42	27.18	51.51	170.82	-274.38	-215.99	3,056.80	2,994.78	62.02	49.291	
7,400.00	7,250.86	14,563.91	9,898.65	27.57	51.57	170.51	-285.29	-215.84	2,982.08	2,919.21	62.87	47.434	
7,500.00	7,347.96	14,578.17	9,898.92	27.96	51.65	170.10	-299.54	-215.66	2,908.84	2,845.06	63.78	45.608	
7,600.00	7,445.06	14,591.39	9,899.13	28.36	51.73	169.73	-312.76	-215.51	2,837.19	2,772.47	64.72	43.837	
7,700.00	7,542.16	14,603.67	9,899.29	28.75	51.80	169.38	-325.04	-215.38	2,767.27	2,701.57	65.70	42.122	
7,800.00	7,639.26	14,615.12	9,899.41	29.14	51.86	169.05	-336.48	-215.27	2,699.21	2,632.50	66.71	40.464	
7,900.00	7,736.36	14,625.81	9,899.50	29.54	51.93	168.75	-347.18	-215.18	2,633.16	2,565.40	67.75	38.864	
7,902.86	7,739.13	14,626.11	9,899.50	29.55	51.93	168.74	-347.47	-215.18	2,631.30	2,563.52	67.78	38.819	
7,950.00	7,784.76	14,633.71	9,899.55	29.73	51.97	155.39	-355.07	-215.12	2,600.96	2,532.65	68.31	38.078	
8,000.00	7,832.63	14,647.53	9,899.61	29.93	52.05	145.46	-368.89	-215.02	2,569.49	2,500.59	68.90	37.292	
8,050.00	7,879.58	14,663.65	9,899.65	30.12	52.14	139.40	-385.02	-214.90	2,538.98	2,469.47	69.51	36.525	
8,100.00	7,925.27	14,684.99	9,899.71	30.31	52.27	135.85	-406.35	-214.71	2,509.62	2,439.46	70.16	35.772	
8,150.00	7,969.35	14,711.11	9,899.77	30.49	52.42	133.84	-432.47	-214.41	2,481.56	2,410.74	70.82	35.039	
8,200.00	8,011.47	14,741.82	9,899.84	30.67	52.60	132.74	-463.18	-213.99	2,454.95	2,383.44	71.51	34.331	
8,250.00	8,051.32	14,773.42	9,899.91	30.83	52.78	132.26	-494.78	-213.48	2,429.92	2,357.73	72.19	33.661	
8,300.00	8,088.60	14,808.97	9,900.01	30.99	52.99	132.09	-530.31	-212.82	2,406.58	2,333.71	72.87	33.024	
8,350.00	8,123.02	14,844.26	9,900.12	31.14	53.19	132.18	-565.60	-212.10	2,385.04	2,311.50	73.54	32.432	
8,400.00	8,154.32	14,875.11	9,900.21	31.28	53.37	132.46	-596.44	-211.59	2,365.48	2,291.32	74.16	31.898	
8,450.00	8,182.27	14,907.93	9,900.28	31.42	53.56	132.78	-629.27	-211.24	2,348.03	2,273.27	74.77	31.405	
8,500.00	8,206.64	14,946.62	9,900.32	31.54	53.79	133.05	-667.95	-211.05	2,332.77	2,257.39	75.38	30.946	
8,550.00	8,227.26	14,992.98	9,900.37	31.66	54.07	133.28	-714.32	-210.85	2,319.61	2,243.60	76.01	30.517	
8,600.00	8,243.96	15,042.03	9,900.43	31.78	54.36	133.51	-763.37	-210.61	2,308.54	2,231.91	76.62	30.129	
8,621.67	8,249.95	15,064.37	9,900.46	31.83	54.49	133.61	-785.71	-210.45	2,304.38	2,227.50	76.88	29.973	
8,700.00	8,267.63	15,144.92	9,900.66	32.00	54.97	133.75	-866.25	-209.68	2,291.85	2,214.06	77.79	29.461	
8,800.00	8,282.55	15,244.70	9,900.73	32.23	55.56	133.88	-966.03	-208.73	2,281.14	2,202.24	78.89	28.914	
8,900.00	8,288.79	15,348.27	9,900.79	32.46	56.19	133.94	-1,069.59	-207.75	2,276.47	2,196.51	79.96	28.471	
8,921.67	8,289.00	15,372.63	9,900.76	32.51	56.34	133.95	-1,093.94	-207.49	2,276.21	2,196.02	80.19	28.384	
9,000.00	8,289.00	15,444.62	9,900.58	32.69	56.77	133.95	-1,165.94	-206.78	2,275.78	2,194.83	80.95	28.114	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,289.00	15,542.31	9,900.25	32.94	57.37	133.95	-1,263.63	-206.52	2,275.67	2,193.70	81.97	27.763	
9,200.00	8,289.00	15,652.85	9,900.04	33.20	58.05	133.95	-1,374.16	-205.50	2,275.19	2,192.11	83.08	27.385	
9,300.00	8,289.00	15,755.25	9,899.60	33.48	58.68	133.95	-1,476.55	-204.38	2,274.42	2,190.26	84.16	27.024	
9,400.00	8,289.00	15,865.00	9,898.96	33.77	59.37	133.96	-1,586.28	-202.70	2,273.22	2,187.91	85.31	26.648	
9,500.00	8,289.00	15,945.94	9,898.66	34.07	59.87	133.97	-1,667.21	-201.45	2,272.22	2,185.94	86.28	26.335	
9,600.00	8,289.00	16,059.57	9,898.30	34.38	60.59	133.98	-1,780.84	-200.46	2,271.70	2,184.22	87.49	25.966	
9,700.00	8,289.00	16,146.00	9,898.11	34.70	61.13	133.98	-1,867.26	-199.76	2,271.26	2,182.72	88.53	25.655	
9,800.00	8,289.00	16,260.74	9,898.04	35.04	61.86	133.99	-1,981.99	-198.33	2,270.64	2,180.87	89.77	25.294	
9,900.00	8,289.00	16,355.10	9,897.75	35.39	62.46	134.00	-2,076.35	-196.98	2,269.73	2,178.84	90.89	24.972	
10,000.00	8,289.00	16,448.61	9,897.31	35.75	63.06	134.00	-2,169.85	-196.20	2,269.11	2,177.09	92.02	24.658	
10,100.00	8,289.00	16,542.66	9,896.94	36.12	63.67	134.00	-2,263.89	-195.54	2,268.66	2,175.49	93.17	24.350	
10,124.25	8,289.00	16,561.59	9,896.86	36.22	63.79	134.00	-2,282.83	-195.50	2,268.63	2,175.21	93.42	24.283	
10,200.00	8,289.00	16,626.82	9,896.50	36.51	64.21	133.98	-2,348.05	-195.89	2,268.90	2,174.64	94.26	24.070	
10,300.00	8,289.00	16,753.06	9,895.44	36.90	65.03	133.96	-2,474.28	-195.42	2,268.25	2,172.59	95.66	23.710	
10,400.00	8,289.00	16,853.74	9,894.94	37.31	65.68	133.95	-2,574.96	-194.85	2,267.82	2,170.93	96.89	23.405	
10,500.00	8,289.00	16,956.31	9,893.86	37.72	66.35	133.94	-2,677.53	-194.01	2,266.81	2,168.66	98.15	23.095	
10,595.63	8,289.00	17,033.00	9,893.52	38.13	66.86	133.94	-2,754.21	-193.47	2,266.35	2,167.15	99.20	22.846	
10,600.00	8,289.00	17,036.30	9,893.50	38.15	66.88	133.94	-2,757.51	-193.48	2,266.35	2,167.10	99.25	22.835	
10,700.00	8,289.00	17,136.38	9,892.78	38.58	67.54	133.90	-2,857.59	-194.30	2,266.77	2,166.25	100.51	22.552	
10,800.00	8,289.00	17,270.29	9,891.49	39.03	68.42	133.88	-2,991.48	-193.48	2,265.95	2,163.93	102.03	22.210	
10,900.00	8,289.00	17,370.00	9,890.04	39.48	69.08	133.87	-3,091.17	-192.34	2,264.43	2,161.13	103.30	21.921	
10,932.59	8,289.00	17,370.00	9,890.04	39.63	69.08	133.87	-3,091.17	-192.34	2,264.20	2,160.72	103.48	21.881	
11,000.00	8,289.00	17,406.43	9,889.26	39.94	69.32	133.84	-3,127.59	-192.88	2,264.38	2,160.27	104.11	21.750	
11,100.00	8,289.00	17,464.00	9,888.11	40.41	69.70	133.75	-3,185.01	-196.66	2,267.48	2,162.40	105.07	21.580	
11,200.00	8,289.00	17,661.30	9,889.83	40.89	71.02	133.68	-3,382.11	-201.55	2,271.76	2,164.61	107.15	21.201	
11,300.00	8,289.00	17,774.47	9,890.02	41.38	71.78	133.72	-3,495.25	-198.75	2,270.40	2,161.86	108.54	20.917	
11,400.00	8,289.00	17,878.10	9,890.30	41.88	72.48	133.78	-3,598.82	-195.52	2,268.65	2,158.79	109.87	20.649	
11,500.00	8,289.00	17,973.76	9,890.85	42.38	73.13	133.83	-3,694.42	-192.31	2,266.96	2,155.81	111.14	20.397	
11,600.00	8,289.00	18,078.48	9,891.15	42.89	73.84	133.88	-3,799.10	-189.32	2,265.42	2,152.93	112.49	20.139	
11,700.00	8,289.00	18,168.64	9,891.24	43.41	74.45	133.93	-3,889.22	-186.53	2,263.60	2,149.86	113.74	19.901	
11,800.00	8,289.00	18,243.24	9,891.60	43.93	74.96	133.95	-3,963.81	-185.06	2,262.83	2,147.95	114.88	19.697	
11,823.55	8,289.00	18,261.55	9,891.70	44.06	75.08	133.96	-3,982.12	-184.86	2,262.81	2,147.65	115.16	19.650	CC
11,900.00	8,289.00	18,322.98	9,891.94	44.46	75.50	133.96	-4,043.54	-184.67	2,263.09	2,147.02	116.06	19.499	
12,000.00	8,289.00	18,404.00	9,892.43	45.00	76.05	133.96	-4,124.56	-184.78	2,263.96	2,146.71	117.25	19.308	ES
12,100.00	8,289.00	18,484.70	9,893.00	45.55	76.60	133.95	-4,205.25	-185.75	2,265.68	2,147.24	118.44	19.129	
12,200.00	8,289.00	18,570.40	9,893.16	46.10	77.19	133.90	-4,290.90	-188.45	2,268.41	2,148.72	119.69	18.953	
12,300.00	8,289.00	18,688.54	9,892.13	46.65	77.99	133.78	-4,408.94	-193.37	2,271.15	2,149.91	121.23	18.734	
12,400.00	8,289.00	18,799.09	9,891.44	47.21	78.75	133.70	-4,519.43	-196.83	2,273.31	2,150.60	122.71	18.526	
12,500.00	8,289.00	18,899.60	9,891.07	47.78	79.44	133.65	-4,619.92	-198.88	2,274.86	2,150.76	124.10	18.331	
12,600.00	8,289.00	18,995.55	9,890.84	48.35	80.10	133.60	-4,715.84	-201.51	2,276.99	2,151.53	125.45	18.150	
12,688.51	8,289.00	19,107.11	9,890.17	48.86	80.87	133.55	-4,827.38	-203.08	2,277.70	2,150.81	126.88	17.951	
12,700.00	8,289.00	19,116.31	9,890.13	48.93	80.93	133.55	-4,836.57	-203.19	2,277.88	2,150.86	127.02	17.933	
12,750.00	8,289.00	19,156.27	9,890.00	49.23	81.21	133.68	-4,876.54	-203.79	2,280.65	2,153.00	127.64	17.867	
12,800.00	8,289.00	19,214.41	9,889.73	49.53	81.61	133.88	-4,934.67	-204.76	2,286.40	2,157.96	128.44	17.802	
12,850.00	8,289.00	19,277.92	9,889.12	49.84	82.05	134.16	-4,998.16	-205.72	2,294.88	2,165.59	129.29	17.750	
12,900.00	8,289.00	19,351.84	9,888.55	50.15	82.56	134.49	-5,072.08	-205.74	2,305.84	2,175.61	130.24	17.705	
12,950.00	8,289.00	19,433.67	9,888.23	50.47	83.13	134.85	-5,153.89	-203.97	2,319.07	2,187.84	131.23	17.672	SF
13,000.00	8,289.00	19,464.15	9,888.16	50.79	83.35	135.73	-5,184.35	-203.05	2,334.92	2,203.08	131.84	17.710	
13,050.00	8,289.00	19,493.74	9,888.06	51.10	83.55	136.84	-5,213.94	-202.48	2,353.88	2,221.43	132.45	17.773	
13,100.00	8,289.00	19,524.00	9,887.95	51.40	83.76	138.17	-5,244.20	-201.99	2,375.67	2,242.62	133.05	17.855	
13,150.00	8,289.00	19,524.00	9,887.95	51.70	83.76	140.21	-5,244.20	-201.99	2,400.52	2,267.12	133.39	17.996	
13,200.00	8,289.00	19,524.00	9,887.95	51.99	83.76	142.68	-5,244.20	-201.99	2,428.34	2,294.64	133.70	18.162	

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 3H
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 3H	**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
13,250.00	8,289.00	19,524.00	9,887.95	52.26	83.76	145.63	-5,244.20	-201.99	2,458.87	2,324.88	133.99	18.351	
13,300.00	8,289.00	19,524.00	9,887.95	52.52	83.76	149.10	-5,244.20	-201.99	2,491.79	2,357.54	134.25	18.560	
13,350.00	8,289.00	19,524.00	9,887.95	52.77	83.76	153.15	-5,244.20	-201.99	2,526.80	2,392.30	134.50	18.786	
13,400.00	8,289.00	19,524.00	9,887.95	53.00	83.76	157.80	-5,244.20	-201.99	2,563.58	2,428.85	134.73	19.027	
13,450.00	8,289.00	19,524.00	9,887.95	53.20	83.76	163.06	-5,244.20	-201.99	2,601.81	2,466.86	134.95	19.279	
13,500.00	8,289.00	19,524.00	9,887.95	53.39	83.76	168.90	-5,244.20	-201.99	2,641.17	2,506.01	135.16	19.540	
13,550.00	8,289.00	19,524.00	9,887.95	53.55	83.76	175.20	-5,244.20	-201.99	2,681.36	2,545.99	135.37	19.808	
13,600.00	8,289.00	19,524.00	9,887.95	53.69	83.76	-178.20	-5,244.20	-201.99	2,722.07	2,586.51	135.56	20.080	
13,650.00	8,289.00	19,524.00	9,887.95	53.80	83.76	-171.51	-5,244.20	-201.99	2,763.01	2,627.26	135.75	20.353	
13,700.00	8,289.00	19,524.00	9,887.95	53.89	83.76	-164.96	-5,244.20	-201.99	2,803.91	2,667.97	135.94	20.627	
13,750.00	8,289.00	19,524.00	9,887.95	53.96	83.76	-158.75	-5,244.20	-201.99	2,844.48	2,708.37	136.12	20.898	
13,800.00	8,289.00	19,524.00	9,887.95	54.00	83.76	-153.02	-5,244.20	-201.99	2,884.49	2,748.20	136.29	21.165	
13,850.00	8,289.00	19,524.00	9,887.95	54.02	83.76	-147.85	-5,244.20	-201.99	2,923.68	2,787.22	136.45	21.426	
13,900.00	8,289.00	19,524.00	9,887.95	54.01	83.76	-143.27	-5,244.20	-201.99	2,961.83	2,825.22	136.61	21.681	
13,950.00	8,289.00	19,524.00	9,887.95	53.99	83.76	-139.25	-5,244.20	-201.99	2,998.72	2,861.96	136.76	21.927	
14,000.00	8,289.00	19,524.00	9,887.95	53.94	83.76	-135.76	-5,244.20	-201.99	3,034.17	2,897.27	136.90	22.164	
14,050.00	8,289.00	19,524.00	9,887.95	53.88	83.76	-132.74	-5,244.20	-201.99	3,067.97	2,930.94	137.03	22.390	
14,100.00	8,289.00	19,524.00	9,887.95	53.80	83.76	-130.15	-5,244.20	-201.99	3,099.97	2,962.83	137.14	22.604	
14,150.00	8,289.00	19,524.00	9,887.95	53.70	83.76	-127.92	-5,244.20	-201.99	3,130.00	2,992.75	137.24	22.806	
14,200.00	8,289.00	19,524.00	9,887.95	53.59	83.76	-126.01	-5,244.20	-201.99	3,157.92	3,020.59	137.33	22.995	
14,250.00	8,289.00	19,495.57	9,888.05	53.47	83.56	-124.20	-5,215.77	-202.45	3,183.47	3,046.32	137.15	23.212	
14,300.00	8,289.00	19,469.37	9,888.14	53.33	83.38	-122.73	-5,189.58	-202.93	3,206.21	3,069.22	136.99	23.405	
14,350.00	8,289.00	19,422.10	9,888.28	53.20	83.05	-121.43	-5,142.32	-204.16	3,226.15	3,089.52	136.64	23.611	
14,400.00	8,289.00	19,332.82	9,888.67	53.05	82.43	-120.28	-5,053.06	-205.86	3,242.84	3,106.92	135.91	23.859	
14,450.00	8,289.00	19,228.50	9,889.61	52.91	81.71	-119.46	-4,948.75	-205.00	3,254.81	3,119.77	135.04	24.102	
14,500.00	8,289.00	19,170.41	9,889.96	52.76	81.30	-118.99	-4,890.67	-204.03	3,262.94	3,128.33	134.62	24.239	
14,530.51	8,289.00	19,142.69	9,890.03	52.67	81.11	-118.82	-4,862.95	-203.57	3,266.11	3,131.68	134.43	24.296	
14,600.00	8,289.00	19,091.75	9,890.26	52.46	80.76	-118.72	-4,812.02	-202.90	3,271.04	3,136.90	134.14	24.385	
14,700.00	8,289.00	18,937.94	9,890.98	52.18	79.70	-118.66	-4,658.24	-199.82	3,273.91	3,140.94	132.97	24.622	
14,762.01	8,289.00	18,895.99	9,891.08	52.01	79.41	-118.67	-4,616.31	-198.81	3,273.25	3,140.48	132.76	24.655	
14,800.00	8,289.00	18,867.72	9,891.14	51.90	79.22	-118.68	-4,588.05	-198.29	3,272.52	3,139.91	132.61	24.677	
14,900.00	8,289.00	18,724.54	9,891.84	51.64	78.24	-118.72	-4,444.92	-194.65	3,270.18	3,138.60	131.58	24.853	
15,000.00	8,289.00	18,597.10	9,893.03	51.38	77.37	-118.79	-4,317.58	-189.60	3,266.79	3,136.08	130.71	24.993	
15,100.00	8,289.00	18,521.92	9,893.18	51.14	76.85	-118.82	-4,242.46	-186.74	3,263.19	3,132.83	130.36	25.032	
15,200.00	8,289.00	18,458.42	9,892.83	50.90	76.42	-118.83	-4,178.97	-185.25	3,260.51	3,130.39	130.12	25.058	
15,300.00	8,289.00	18,396.95	9,892.37	50.66	76.00	-118.83	-4,117.51	-184.76	3,259.06	3,129.17	129.89	25.092	
15,400.00	8,289.00	18,310.00	9,891.89	50.44	75.41	-118.82	-4,030.56	-184.66	3,258.31	3,128.88	129.43	25.175	
15,453.68	8,289.00	18,272.38	9,891.74	50.33	75.15	-118.82	-3,992.94	-184.78	3,258.16	3,128.89	129.27	25.205	
15,500.00	8,289.00	18,242.14	9,891.60	50.23	74.95	-118.82	-3,962.70	-185.08	3,258.27	3,129.13	129.14	25.230	
15,600.00	8,289.00	18,177.96	9,891.27	50.02	74.51	-118.81	-3,898.54	-186.29	3,259.31	3,130.43	128.88	25.290	
15,700.00	8,289.00	18,105.88	9,891.17	49.82	74.02	-118.79	-3,826.49	-188.46	3,261.44	3,132.90	128.55	25.371	
15,800.00	8,289.00	17,991.55	9,890.94	49.64	73.25	-118.76	-3,712.21	-191.77	3,263.48	3,135.58	127.90	25.516	
15,900.00	8,289.00	17,901.67	9,890.42	49.46	72.64	-118.73	-3,622.38	-194.72	3,265.69	3,138.24	127.44	25.624	
16,000.00	8,289.00	17,794.65	9,890.05	49.29	71.92	-118.70	-3,515.42	-198.17	3,267.97	3,141.10	126.87	25.758	
16,100.00	8,289.00	17,464.00	9,888.11	49.13	69.70	-118.70	-3,185.01	-196.66	3,267.71	3,143.27	124.44	26.258	
16,200.00	8,289.00	17,416.17	9,889.06	48.98	69.39	-118.74	-3,137.32	-193.27	3,262.85	3,138.39	124.46	26.217	
16,300.00	8,289.00	17,370.00	9,890.04	48.84	69.08	-118.77	-3,091.17	-192.34	3,260.96	3,136.51	124.46	26.201	
16,355.48	8,289.00	17,370.00	9,890.04	48.77	69.08	-118.77	-3,091.17	-192.34	3,260.49	3,135.84	124.65	26.157	
16,400.00	8,289.00	17,362.13	9,890.21	48.71	69.03	-118.77	-3,083.31	-192.38	3,260.79	3,136.06	124.73	26.143	
16,500.00	8,289.00	17,276.09	9,891.45	48.59	68.46	-118.78	-2,997.28	-193.38	3,262.12	3,137.73	124.38	26.226	
16,600.00	8,289.00	17,087.00	9,893.19	48.48	67.21	-118.81	-2,808.21	-193.84	3,262.47	3,139.19	123.28	26.464	
16,700.00	8,289.00	17,024.90	9,893.55	48.38	66.80	-118.82	-2,746.11	-193.48	3,261.86	3,138.71	123.15	26.486	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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
16,701.40	8,289.00	17,024.04	9,893.56	48.38	66.80	-118.82	-2,745.25	-193.48	3,261.86	3,138.71	123.15	26.487	
16,800.00	8,289.00	16,951.11	9,893.89	48.29	66.32	-118.83	-2,672.32	-194.06	3,262.34	3,139.41	122.93	26.538	
16,900.00	8,289.00	16,840.31	9,895.04	48.21	65.60	-118.84	-2,561.54	-194.93	3,263.17	3,140.72	122.45	26.648	
17,000.00	8,289.00	16,746.99	9,895.49	48.15	64.99	-118.85	-2,468.22	-195.47	3,263.54	3,141.42	122.11	26.726	
17,100.00	8,289.00	16,616.00	9,896.57	48.09	64.14	-118.86	-2,337.23	-195.79	3,263.78	3,142.27	121.52	26.859	
17,200.00	8,289.00	16,522.00	9,897.01	48.05	63.53	-118.88	-2,243.24	-195.66	3,263.51	3,142.31	121.19	26.928	
17,203.42	8,289.00	16,522.00	9,897.01	48.05	63.53	-118.88	-2,243.24	-195.66	3,263.50	3,142.30	121.21	26.925	
17,300.00	8,289.00	16,439.68	9,897.35	48.01	63.00	-118.88	-2,160.92	-196.26	3,263.91	3,142.95	120.96	26.983	
17,400.00	8,289.00	16,351.83	9,897.76	47.99	62.44	-118.88	-2,073.08	-197.02	3,264.51	3,143.81	120.70	27.047	
17,500.00	8,289.00	16,264.79	9,898.03	47.99	61.89	-118.88	-1,986.04	-198.26	3,265.52	3,145.08	120.44	27.113	
17,600.00	8,289.00	16,129.63	9,898.14	47.99	61.03	-118.87	-1,850.89	-199.82	3,266.19	3,146.31	119.88	27.246	
17,700.00	8,289.00	16,061.65	9,898.29	48.01	60.60	-118.87	-1,782.92	-200.43	3,266.73	3,146.96	119.77	27.275	
17,800.00	8,289.00	15,940.16	9,898.68	48.04	59.84	-118.87	-1,661.44	-201.49	3,267.22	3,147.89	119.33	27.381	
17,900.00	8,289.00	15,865.00	9,898.96	48.08	59.37	-118.87	-1,586.28	-202.70	3,268.33	3,149.14	119.19	27.422	
18,000.00	8,289.00	15,749.37	9,899.64	48.14	58.65	-118.87	-1,470.67	-204.44	3,269.58	3,150.77	118.80	27.521	
18,100.00	8,289.00	15,649.25	9,900.04	48.21	58.03	-118.87	-1,370.56	-205.54	3,270.36	3,151.83	118.53	27.592	
18,200.00	8,289.00	15,527.57	9,900.29	48.29	57.28	-118.87	-1,248.89	-206.58	3,270.83	3,152.70	118.13	27.689	
18,254.46	8,289.00	15,470.92	9,900.49	48.34	56.93	-118.88	-1,192.24	-206.67	3,270.78	3,152.80	117.98	27.723	
18,300.00	8,289.00	15,437.16	9,900.60	48.39	56.73	-118.88	-1,158.47	-206.82	3,270.87	3,152.93	117.94	27.733	
18,400.00	8,289.00	15,343.14	9,900.79	48.50	56.16	-118.88	-1,064.46	-207.81	3,271.48	3,153.75	117.73	27.787	
18,500.00	8,289.00	15,238.63	9,900.73	48.63	55.53	-118.87	-959.95	-208.78	3,271.89	3,154.42	117.47	27.852	
18,600.00	8,289.00	15,138.80	9,900.65	48.76	54.93	-118.86	-860.13	-209.74	3,272.31	3,155.06	117.25	27.909	
18,700.00	8,289.00	15,025.84	9,900.40	48.92	54.26	-118.86	-747.18	-210.70	3,272.56	3,155.60	116.96	27.980	
18,797.37	8,289.00	14,928.00	9,900.30	49.08	53.68	-118.86	-649.33	-211.13	3,272.51	3,155.75	116.76	28.027	
18,800.00	8,289.00	14,928.00	9,900.30	49.08	53.68	-118.86	-649.33	-211.13	3,272.51	3,155.74	116.77	28.024	
18,900.00	8,289.00	14,857.02	9,900.16	49.26	53.27	-118.85	-578.35	-211.87	3,272.97	3,156.23	116.74	28.036	
19,000.00	8,289.00	14,757.60	9,899.87	49.46	52.69	-118.83	-478.96	-213.74	3,274.09	3,157.54	116.56	28.090	
19,100.00	8,289.00	14,624.88	9,899.49	50.02	51.92	-118.82	-346.25	-215.19	3,274.52	3,158.53	115.98	28.233	
19,101.33	8,289.00	14,623.39	9,899.48	50.05	51.91	-118.82	-344.75	-215.20	3,274.52	3,158.54	115.98	28.234	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	31.32	31.32	0.00	0.05	1.48	4,644.73	120.37	4,646.29				
100.00	100.00	128.58	128.58	0.28	0.20	1.48	4,644.78	120.22	4,646.34	4,645.86	0.48	9,676.988	
200.00	200.00	223.86	223.86	0.63	0.40	1.48	4,644.90	119.90	4,646.45	4,645.42	1.04	4,487.075	
300.00	300.00	314.94	314.93	0.99	0.73	1.47	4,645.18	119.24	4,646.74	4,645.02	1.72	2,700.779	
400.00	400.00	409.75	409.75	1.35	1.07	1.46	4,645.57	118.28	4,647.13	4,644.71	2.42	1,921.831	
500.00	500.00	478.00	477.99	1.71	1.31	1.45	4,646.04	117.94	4,647.85	4,644.83	3.02	1,539.832	
600.00	600.00	569.00	568.98	2.07	1.63	1.45	4,647.17	117.96	4,649.10	4,645.40	3.70	1,257.739	
700.00	700.00	635.37	635.34	2.43	1.86	1.45	4,648.37	117.99	4,650.87	4,646.58	4.29	1,084.211	
800.00	800.00	704.48	704.43	2.79	2.11	1.45	4,650.04	117.80	4,653.29	4,648.39	4.89	951.002	
900.00	900.00	813.72	813.62	3.14	2.50	1.44	4,653.22	117.25	4,656.20	4,650.56	5.64	825.513	
1,000.00	1,000.00	996.08	995.96	3.50	3.15	1.44	4,656.28	117.37	4,657.90	4,651.25	6.65	700.698	
1,100.00	1,100.00	1,174.91	1,174.77	3.86	3.77	1.42	4,655.86	115.71	4,657.49	4,649.86	7.63	610.558	
1,200.00	1,200.00	1,290.48	1,290.33	4.22	4.17	1.41	4,654.68	114.51	4,656.45	4,648.07	8.38	555.465	
1,300.00	1,300.00	1,396.91	1,396.75	4.58	4.53	1.40	4,653.28	113.38	4,655.11	4,646.00	9.11	511.122	
1,400.00	1,400.00	1,484.52	1,484.34	4.94	4.83	1.39	4,652.18	112.62	4,653.84	4,644.07	9.77	476.375	
1,500.00	1,500.00	1,588.75	1,588.56	5.29	5.20	1.38	4,651.02	111.84	4,652.71	4,642.22	10.49	443.568	
1,600.00	1,600.00	1,647.51	1,647.32	5.65	5.40	1.37	4,650.55	111.42	4,651.91	4,640.86	11.06	420.794	
1,634.57	1,634.57	1,666.96	1,666.77	5.78	5.47	1.37	4,650.52	111.26	4,651.86	4,640.61	11.25	413.587	
1,700.00	1,700.00	1,708.74	1,708.55	6.01	5.62	1.37	4,650.66	110.90	4,652.04	4,640.41	11.63	400.001	
1,800.00	1,800.00	1,784.40	1,784.20	6.37	5.89	1.35	4,651.27	110.00	4,652.82	4,640.56	12.26	379.575	
1,900.00	1,899.98	1,897.91	1,897.70	6.72	6.29	-103.38	4,652.32	108.89	4,654.13	4,641.12	13.01	357.786	
2,000.00	1,999.84	2,024.57	2,024.34	7.06	6.73	-103.41	4,652.87	110.67	4,655.81	4,642.03	13.78	337.828	
2,100.00	2,099.45	2,134.22	2,133.93	7.40	7.10	-103.44	4,652.79	114.14	4,657.83	4,643.34	14.49	321.352	
2,200.00	2,198.70	2,257.01	2,256.71	7.74	7.52	-103.55	4,652.45	115.50	4,660.45	4,645.20	15.26	305.493	
2,300.00	2,297.47	2,348.00	2,347.70	8.09	7.83	-103.65	4,651.97	116.08	4,663.65	4,647.74	15.91	293.085	
2,400.00	2,395.62	2,407.11	2,406.81	8.44	8.03	-103.69	4,651.95	116.22	4,668.24	4,651.77	16.47	283.496	
2,491.84	2,485.13	2,442.00	2,441.70	8.76	8.15	-103.67	4,652.21	116.07	4,674.08	4,657.18	16.91	276.425	
2,500.00	2,493.06	2,442.00	2,441.70	8.79	8.15	-103.67	4,652.21	116.07	4,674.70	4,657.76	16.94	275.996	
2,600.00	2,590.16	2,495.00	2,494.68	9.14	8.34	-103.83	4,653.24	115.09	4,682.69	4,665.22	17.48	267.950	
2,700.00	2,687.25	2,575.65	2,575.26	9.50	8.63	-104.09	4,655.63	112.73	4,691.65	4,673.54	18.12	258.965	
2,800.00	2,784.35	2,665.29	2,664.82	9.86	8.94	-104.37	4,658.47	110.33	4,700.95	4,682.16	18.79	250.142	
2,900.00	2,881.45	2,791.15	2,790.57	10.23	9.39	-104.77	4,662.28	106.63	4,710.32	4,690.72	19.60	240.265	
3,000.00	2,978.55	2,964.07	2,963.28	10.60	10.00	-105.36	4,665.01	98.64	4,718.31	4,697.72	20.59	229.172	
3,100.00	3,075.65	3,062.79	3,061.86	10.96	10.36	-105.69	4,665.87	93.46	4,725.90	4,704.60	21.31	221.818	
3,200.00	3,172.74	3,162.93	3,161.85	11.34	10.71	-106.04	4,666.65	87.93	4,733.59	4,711.56	22.03	214.877	
3,300.00	3,269.84	3,267.51	3,266.21	11.71	11.08	-106.41	4,667.29	81.38	4,741.32	4,718.55	22.77	208.218	
3,400.00	3,366.94	3,413.91	3,411.89	12.08	11.61	-106.98	4,667.15	66.89	4,748.76	4,725.09	23.66	200.670	
3,500.00	3,464.04	3,492.00	3,489.52	12.46	11.88	-107.29	4,666.77	58.44	4,756.03	4,731.72	24.31	195.606	
3,600.00	3,561.14	3,578.14	3,575.05	12.83	12.19	-107.65	4,666.42	48.25	4,763.68	4,738.69	24.99	190.591	
3,700.00	3,658.24	3,676.80	3,672.76	13.21	12.55	-108.08	4,665.92	34.63	4,771.61	4,745.89	25.72	185.514	
3,800.00	3,755.33	3,727.49	3,722.87	13.59	12.73	-108.30	4,665.79	26.98	4,780.14	4,753.87	26.27	181.940	
3,900.00	3,852.43	3,776.95	3,771.67	13.97	12.91	-108.53	4,666.08	18.96	4,789.81	4,762.99	26.82	178.598	
4,000.00	3,949.53	3,864.82	3,858.19	14.35	13.22	-108.94	4,666.92	3.61	4,800.21	4,772.70	27.51	174.499	
4,100.00	4,046.63	4,056.15	4,045.83	14.73	13.91	-109.89	4,666.22	-33.72	4,809.82	4,781.24	28.59	168.243	
4,200.00	4,143.73	4,157.19	4,144.88	15.11	14.28	-110.38	4,664.77	-53.65	4,818.95	4,789.62	29.33	164.289	
4,300.00	4,240.82	4,276.86	4,262.01	15.50	14.72	-110.98	4,662.49	-78.03	4,828.09	4,797.94	30.15	160.150	
4,400.00	4,337.92	4,341.00	4,324.56	15.88	14.95	-111.31	4,660.80	-92.14	4,837.24	4,806.48	30.76	157.280	
4,500.00	4,435.02	4,408.77	4,390.54	16.27	15.20	-111.67	4,659.30	-107.54	4,847.20	4,815.82	31.38	154.480	
4,600.00	4,532.12	4,462.79	4,443.12	16.65	15.40	-111.95	4,658.70	-119.91	4,858.44	4,826.49	31.95	152.087	
4,700.00	4,629.22	4,530.00	4,508.48	17.04	15.65	-112.30	4,658.27	-135.56	4,870.56	4,838.00	32.56	149.574	
4,800.00	4,726.31	4,580.13	4,557.21	17.42	15.83	-112.56	4,658.25	-147.35	4,883.63	4,850.51	33.11	147.490	
4,900.00	4,823.41	4,625.00	4,600.82	17.81	16.00	-112.80	4,658.56	-157.88	4,897.78	4,864.14	33.64	145.614	

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 3H
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 3H	**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
5,000.00	4,920.51	4,702.32	4,676.13	18.20	16.29	-113.19	4,659.67	-175.38	4,912.79	4,878.50	34.29	143.270	
5,100.00	5,017.61	14,326.59	9,663.05	18.58	50.95	171.90	-148.80	-875.52	4,869.71	4,818.55	51.16	95.189	
5,200.00	5,114.71	14,332.09	9,663.07	18.97	50.98	171.78	-154.31	-875.58	4,785.47	4,733.91	51.55	92.823	
5,300.00	5,211.80	14,337.58	9,663.09	19.36	51.01	171.66	-159.79	-875.64	4,701.83	4,649.87	51.97	90.480	
5,400.00	5,308.90	14,343.05	9,663.10	19.75	51.05	171.54	-165.26	-875.71	4,618.84	4,566.45	52.39	88.163	
5,500.00	5,406.00	14,348.50	9,663.12	20.14	51.08	171.42	-170.72	-875.77	4,536.53	4,483.70	52.83	85.871	
5,600.00	5,503.10	14,353.94	9,663.13	20.53	51.11	171.30	-176.16	-875.84	4,454.93	4,401.64	53.29	83.605	
5,700.00	5,600.20	14,359.44	9,663.15	20.91	51.14	171.18	-181.65	-875.91	4,374.09	4,320.33	53.76	81.365	
5,800.00	5,697.30	14,365.93	9,663.17	21.30	51.17	171.04	-188.15	-876.00	4,294.05	4,239.79	54.26	79.144	
5,900.00	5,794.39	14,372.50	9,663.19	21.69	51.21	170.90	-194.71	-876.08	4,214.85	4,160.08	54.77	76.952	
6,000.00	5,891.49	14,379.13	9,663.21	22.09	51.25	170.75	-201.34	-876.16	4,136.54	4,081.24	55.31	74.790	
6,100.00	5,988.59	14,385.83	9,663.24	22.48	51.28	170.60	-208.05	-876.23	4,059.18	4,003.31	55.87	72.660	
6,200.00	6,085.69	14,392.61	9,663.26	22.87	51.32	170.45	-214.82	-876.30	3,982.81	3,926.37	56.44	70.562	
6,300.00	6,182.79	14,399.45	9,663.29	23.26	51.36	170.30	-221.66	-876.37	3,907.50	3,850.46	57.05	68.497	
6,400.00	6,279.88	14,406.37	9,663.32	23.65	51.40	170.15	-228.58	-876.43	3,833.31	3,775.64	57.67	66.468	
6,500.00	6,376.98	14,413.36	9,663.35	24.04	51.44	170.00	-235.57	-876.48	3,760.31	3,701.98	58.32	64.474	
6,600.00	6,474.08	14,420.43	9,663.38	24.43	51.48	169.84	-242.64	-876.54	3,688.55	3,629.55	59.00	62.519	
6,700.00	6,571.18	14,427.57	9,663.41	24.82	51.52	169.68	-249.78	-876.59	3,618.13	3,558.42	59.70	60.603	
6,800.00	6,668.28	14,434.79	9,663.45	25.22	51.56	169.53	-257.00	-876.63	3,549.11	3,488.68	60.43	58.728	
6,900.00	6,765.37	14,442.09	9,663.49	25.61	51.60	169.37	-264.30	-876.67	3,481.58	3,420.39	61.19	56.895	
7,000.00	6,862.47	14,449.47	9,663.52	26.00	51.64	169.20	-271.68	-876.71	3,415.64	3,353.65	61.98	55.106	
7,100.00	6,959.57	14,457.09	9,663.56	26.39	51.68	169.03	-279.30	-876.74	3,351.36	3,288.56	62.80	53.363	
7,200.00	7,056.67	14,464.78	9,663.60	26.78	51.73	168.87	-286.99	-876.77	3,288.86	3,225.20	63.66	51.667	
7,300.00	7,153.77	14,472.35	9,663.63	27.18	51.77	168.70	-294.56	-876.80	3,228.22	3,163.69	64.54	50.022	
7,400.00	7,250.86	14,479.79	9,663.66	27.57	51.81	168.53	-301.99	-876.83	3,169.57	3,104.12	65.45	48.429	
7,500.00	7,347.96	14,487.10	9,663.69	27.96	51.85	168.37	-309.31	-876.86	3,113.01	3,046.63	66.39	46.891	
7,600.00	7,445.06	14,494.30	9,663.71	28.36	51.89	168.21	-316.51	-876.90	3,058.66	2,991.31	67.36	45.409	
7,700.00	7,542.16	14,501.38	9,663.72	28.75	51.93	168.06	-323.59	-876.93	3,006.64	2,938.29	68.36	43.985	
7,800.00	7,639.26	14,508.35	9,663.73	29.14	51.97	167.90	-330.56	-876.96	2,957.08	2,887.70	69.38	42.622	
7,900.00	7,736.36	14,515.21	9,663.74	29.54	52.01	167.75	-337.42	-876.99	2,910.09	2,839.66	70.43	41.320	
7,902.86	7,739.13	14,515.41	9,663.74	29.55	52.01	167.75	-337.61	-876.99	2,908.79	2,838.33	70.46	41.284	
7,950.00	7,784.76	14,520.75	9,663.75	29.73	52.04	152.91	-342.96	-877.02	2,887.58	2,816.61	70.97	40.686	
8,000.00	7,832.63	14,531.04	9,663.75	29.93	52.10	141.53	-353.25	-877.07	2,865.82	2,794.27	71.55	40.056	
8,050.00	7,879.58	14,545.94	9,663.74	30.12	52.19	134.07	-368.15	-877.14	2,844.93	2,772.78	72.14	39.434	
8,100.00	7,925.27	14,562.97	9,663.73	30.31	52.28	129.31	-385.18	-877.23	2,825.04	2,752.29	72.75	38.831	
8,150.00	7,969.35	14,584.07	9,663.72	30.49	52.40	126.23	-406.28	-877.33	2,806.25	2,732.88	73.37	38.246	
8,200.00	8,011.47	14,608.99	9,663.73	30.67	52.55	124.20	-431.19	-877.44	2,788.65	2,714.64	74.01	37.681	
8,250.00	8,051.32	14,637.53	9,663.76	30.83	52.71	122.84	-459.73	-877.57	2,772.28	2,697.64	74.64	37.141	
8,300.00	8,088.60	14,666.05	9,663.79	30.99	52.87	121.95	-488.26	-877.72	2,757.20	2,681.94	75.26	36.634	
8,350.00	8,123.02	14,697.11	9,663.80	31.14	53.05	121.35	-519.31	-877.96	2,743.48	2,667.60	75.88	36.156	
8,400.00	8,154.32	14,732.00	9,663.78	31.28	53.25	120.92	-554.20	-878.32	2,731.12	2,654.63	76.49	35.705	
8,450.00	8,182.27	14,789.02	9,663.57	31.42	53.58	120.41	-611.22	-878.87	2,719.98	2,642.79	77.19	35.239	
8,500.00	8,206.64	14,841.72	9,663.11	31.54	53.89	120.13	-663.91	-879.19	2,709.87	2,632.03	77.84	34.815	
8,550.00	8,227.26	14,881.03	9,662.68	31.66	54.12	120.08	-703.23	-879.49	2,701.04	2,622.65	78.39	34.455	
8,600.00	8,243.96	14,922.62	9,662.16	31.78	54.36	120.08	-744.81	-879.96	2,693.57	2,614.64	78.93	34.125	
8,621.67	8,249.95	14,949.70	9,661.80	31.83	54.52	120.05	-771.88	-880.26	2,690.72	2,611.52	79.20	33.974	
8,700.00	8,267.63	15,038.46	9,660.75	32.00	55.04	120.03	-860.64	-880.71	2,681.85	2,601.75	80.10	33.483	
8,800.00	8,282.55	15,125.46	9,660.00	32.23	55.56	120.09	-947.64	-881.03	2,674.57	2,593.51	81.06	32.993	
8,894.41	8,288.67	15,202.00	9,659.69	32.44	56.02	120.07	-1,024.17	-881.70	2,672.36	2,590.46	81.90	32.630	
8,900.00	8,288.79	15,203.59	9,659.69	32.46	56.03	120.07	-1,025.76	-881.72	2,672.37	2,590.44	81.93	32.617	
8,921.67	8,289.00	15,226.34	9,659.64	32.51	56.16	120.06	-1,048.51	-881.99	2,672.56	2,590.42	82.14	32.537	
9,000.00	8,289.00	15,317.64	9,659.45	32.69	56.71	120.04	-1,139.80	-882.94	2,673.50	2,590.56	82.94	32.233	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,289.00	15,429.90	9,658.89	32.94	57.39	120.02	-1,252.06	-882.98	2,673.61	2,589.64	83.96	31.842	
9,200.00	8,289.00	15,513.32	9,659.37	33.20	57.90	120.02	-1,335.47	-883.21	2,674.48	2,589.63	84.85	31.519	
9,300.00	8,289.00	15,682.87	9,658.03	33.48	58.94	119.99	-1,505.01	-883.01	2,674.51	2,588.30	86.21	31.022	
9,400.00	8,289.00	15,769.72	9,657.05	33.77	59.47	119.98	-1,591.85	-881.99	2,673.28	2,586.12	87.16	30.670	
9,500.00	8,289.00	15,873.53	9,655.78	34.07	60.12	119.97	-1,695.65	-880.78	2,672.05	2,583.83	88.22	30.288	
9,600.00	8,289.00	15,968.34	9,654.50	34.38	60.71	119.95	-1,790.45	-879.84	2,670.90	2,581.65	89.25	29.928	
9,700.00	8,289.00	16,068.09	9,653.00	34.70	61.34	119.93	-1,890.18	-878.97	2,669.78	2,579.47	90.31	29.561	
9,800.00	8,289.00	16,164.38	9,651.96	35.04	61.94	119.91	-1,986.46	-878.12	2,668.86	2,577.48	91.37	29.208	
9,900.00	8,289.00	16,278.88	9,650.12	35.39	62.67	119.88	-2,100.94	-877.07	2,667.65	2,575.09	92.55	28.822	
10,000.00	8,289.00	16,377.20	9,648.61	35.75	63.30	119.86	-2,199.24	-875.73	2,666.08	2,572.43	93.66	28.466	
10,100.00	8,289.00	16,481.66	9,646.04	36.12	63.97	119.82	-2,303.67	-875.13	2,664.75	2,569.94	94.82	28.104	
10,200.00	8,289.00	16,596.08	9,643.40	36.51	64.70	119.78	-2,418.04	-873.66	2,662.86	2,566.82	96.04	27.726	
10,300.00	8,289.00	16,683.32	9,641.94	36.90	65.27	119.76	-2,505.26	-872.16	2,660.93	2,563.81	97.12	27.398	
10,400.00	8,289.00	16,765.18	9,641.33	37.31	65.80	119.76	-2,587.11	-870.91	2,659.62	2,561.45	98.17	27.091	
10,500.00	8,289.00	16,877.74	9,640.43	37.72	66.53	119.75	-2,699.65	-869.63	2,658.66	2,559.24	99.42	26.742	
10,600.00	8,289.00	16,958.95	9,639.31	38.15	67.06	119.74	-2,780.86	-868.79	2,657.48	2,556.99	100.49	26.445	
10,700.00	8,289.00	17,058.86	9,638.30	38.58	67.71	119.72	-2,880.76	-868.28	2,656.92	2,555.23	101.68	26.129	
10,800.00	8,289.00	17,191.02	9,634.45	39.03	68.58	119.65	-3,012.85	-867.73	2,655.47	2,552.37	103.10	25.757	
10,900.00	8,289.00	17,268.00	9,632.79	39.48	69.09	119.62	-3,089.81	-866.96	2,653.93	2,549.75	104.18	25.475	
11,000.00	8,289.00	17,347.59	9,632.48	39.94	69.62	119.62	-3,169.40	-866.11	2,653.20	2,547.93	105.27	25.204	
11,100.00	8,289.00	17,466.20	9,631.80	40.41	70.40	119.61	-3,288.00	-865.11	2,652.58	2,545.96	106.62	24.880	
11,200.00	8,289.00	17,549.00	9,631.58	40.89	70.95	119.61	-3,370.79	-864.35	2,652.01	2,544.27	107.75	24.614	
11,291.26	8,289.00	17,631.03	9,631.83	41.34	71.50	119.62	-3,452.83	-863.80	2,651.95	2,543.13	108.82	24.370	
11,300.00	8,289.00	17,639.51	9,631.84	41.38	71.55	119.62	-3,461.30	-863.76	2,651.96	2,543.03	108.93	24.346	
11,400.00	8,289.00	17,771.38	9,630.92	41.88	72.44	119.61	-3,593.16	-862.77	2,651.34	2,540.95	110.39	24.018	
11,500.00	8,289.00	17,891.74	9,629.49	42.38	73.24	119.59	-3,713.50	-860.83	2,649.73	2,537.95	111.79	23.704	
11,600.00	8,289.00	17,983.19	9,628.52	42.89	73.86	119.59	-3,804.92	-858.93	2,647.80	2,534.79	113.01	23.431	
11,700.00	8,289.00	18,087.59	9,627.36	43.41	74.56	119.58	-3,909.30	-857.29	2,646.27	2,531.96	114.31	23.149	
11,800.00	8,289.00	18,198.93	9,626.04	43.93	75.32	119.58	-4,020.61	-854.91	2,644.21	2,528.53	115.67	22.859	
11,900.00	8,289.00	18,300.04	9,624.72	44.46	76.00	119.57	-4,121.68	-852.57	2,641.94	2,524.96	116.98	22.585	
12,000.00	8,289.00	18,395.00	9,623.54	45.00	76.65	119.57	-4,216.61	-850.42	2,639.74	2,521.49	118.25	22.324	
12,100.00	8,289.00	18,489.00	9,622.39	45.55	77.29	119.56	-4,310.59	-848.55	2,637.79	2,518.27	119.52	22.070	
12,200.00	8,289.00	18,560.50	9,621.94	46.10	77.78	119.56	-4,382.08	-847.43	2,636.50	2,515.86	120.64	21.853	
12,300.00	8,289.00	18,677.60	9,622.49	46.65	78.58	119.59	-4,499.16	-845.51	2,635.74	2,513.67	122.07	21.592	
12,400.00	8,289.00	18,821.03	9,620.71	47.21	79.57	119.59	-4,642.52	-841.78	2,633.14	2,509.47	123.67	21.291	
12,500.00	8,289.00	18,917.58	9,618.74	47.78	80.23	119.57	-4,739.01	-839.09	2,630.10	2,505.11	124.99	21.043	
12,600.00	8,289.00	19,018.55	9,617.65	48.35	80.93	119.58	-4,839.92	-835.90	2,627.21	2,500.88	126.33	20.796	
12,688.51	8,289.00	19,087.65	9,616.15	48.86	81.41	119.57	-4,908.99	-834.13	2,624.69	2,497.29	127.40	20.602	
12,700.00	8,289.00	19,093.84	9,616.05	48.93	81.45	119.56	-4,915.17	-834.01	2,624.53	2,497.02	127.52	20.582	
12,702.52	8,289.00	19,095.20	9,616.02	48.95	81.46	119.56	-4,916.53	-833.99	2,624.53	2,496.98	127.54	20.577	CC, ES
12,750.00	8,289.00	19,120.71	9,615.71	49.23	81.64	119.63	-4,942.04	-833.59	2,626.34	2,498.30	128.04	20.511	
12,800.00	8,289.00	19,155.00	9,615.58	49.53	81.87	119.84	-4,976.33	-833.27	2,632.16	2,503.54	128.62	20.465	
12,850.00	8,289.00	19,187.82	9,615.44	49.84	82.10	120.22	-5,009.15	-833.20	2,641.80	2,512.61	129.19	20.449	
12,900.00	8,289.00	19,232.89	9,614.68	50.15	82.41	120.70	-5,054.21	-833.45	2,655.00	2,525.14	129.85	20.446	SF
12,950.00	8,289.00	19,285.17	9,613.21	50.47	82.77	121.28	-5,106.46	-834.07	2,671.59	2,541.02	130.57	20.461	
13,000.00	8,289.00	19,340.70	9,611.72	50.79	83.16	122.00	-5,161.97	-834.44	2,691.33	2,560.02	131.31	20.496	
13,050.00	8,289.00	19,384.62	9,610.76	51.10	83.47	122.98	-5,205.88	-834.50	2,714.18	2,582.22	131.96	20.568	
13,100.00	8,289.00	19,424.99	9,610.11	51.40	83.75	124.22	-5,246.24	-834.41	2,740.09	2,607.51	132.58	20.667	
13,150.00	8,289.00	19,430.00	9,610.03	51.70	83.78	126.11	-5,251.26	-834.40	2,769.13	2,636.20	132.92	20.832	
13,200.00	8,289.00	19,430.00	9,610.03	51.99	83.78	128.52	-5,251.26	-834.40	2,801.34	2,668.14	133.20	21.031	
13,250.00	8,289.00	19,430.00	9,610.03	52.26	83.78	131.50	-5,251.26	-834.40	2,836.41	2,702.97	133.44	21.255	
13,300.00	8,289.00	19,430.00	9,610.03	52.52	83.78	135.19	-5,251.26	-834.40	2,874.01	2,740.34	133.66	21.502	

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 3H
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 3H	**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
13,350.00	8,289.00	19,430.00	9,610.03	52.77	83.78	139.75	-5,251.26	-834.40	2,913.78	2,779.92	133.86	21.767	
13,400.00	8,289.00	19,430.00	9,610.03	53.00	83.78	145.37	-5,251.26	-834.40	2,955.39	2,821.35	134.04	22.049	
13,450.00	8,289.00	19,430.00	9,610.03	53.20	83.78	152.20	-5,251.26	-834.40	2,998.47	2,864.27	134.20	22.344	
13,500.00	8,289.00	19,430.00	9,610.03	53.39	83.78	160.36	-5,251.26	-834.40	3,042.67	2,908.33	134.34	22.649	
13,550.00	8,289.00	19,430.00	9,610.03	53.55	83.78	169.75	-5,251.26	-834.40	3,087.67	2,953.20	134.47	22.962	
13,600.00	8,289.00	19,430.00	9,610.03	53.69	83.78	179.97	-5,251.26	-834.40	3,133.12	2,998.54	134.59	23.280	
13,650.00	8,289.00	19,430.00	9,610.03	53.80	83.78	-169.63	-5,251.26	-834.40	3,178.71	3,044.02	134.69	23.600	
13,700.00	8,289.00	19,430.00	9,610.03	53.89	83.78	-159.77	-5,251.26	-834.40	3,224.13	3,089.35	134.79	23.920	
13,750.00	8,289.00	19,430.00	9,610.03	53.96	83.78	-150.98	-5,251.26	-834.40	3,269.09	3,134.22	134.87	24.239	
13,800.00	8,289.00	19,430.00	9,610.03	54.00	83.78	-143.49	-5,251.26	-834.40	3,313.30	3,178.36	134.94	24.553	
13,850.00	8,289.00	19,430.00	9,610.03	54.02	83.78	-137.26	-5,251.26	-834.40	3,356.51	3,221.50	135.01	24.861	
13,900.00	8,289.00	19,430.00	9,610.03	54.01	83.78	-132.15	-5,251.26	-834.40	3,398.47	3,263.40	135.07	25.162	
13,950.00	8,289.00	19,430.00	9,610.03	53.99	83.78	-127.97	-5,251.26	-834.40	3,438.94	3,303.82	135.11	25.453	
14,000.00	8,289.00	19,430.00	9,610.03	53.94	83.78	-124.55	-5,251.26	-834.40	3,477.70	3,342.56	135.15	25.733	
14,050.00	8,289.00	19,430.00	9,610.03	53.88	83.78	-121.74	-5,251.26	-834.40	3,514.56	3,379.39	135.17	26.001	
14,100.00	8,289.00	19,430.00	9,610.03	53.80	83.78	-119.42	-5,251.26	-834.40	3,549.34	3,414.15	135.19	26.255	
14,150.00	8,289.00	19,430.00	9,610.03	53.70	83.78	-117.50	-5,251.26	-834.40	3,581.85	3,446.66	135.19	26.495	
14,200.00	8,289.00	19,413.36	9,610.30	53.59	83.67	-115.82	-5,234.62	-834.43	3,611.90	3,476.86	135.04	26.747	
14,250.00	8,289.00	19,369.10	9,611.06	53.47	83.36	-114.34	-5,190.37	-834.50	3,639.02	3,504.36	134.66	27.024	
14,300.00	8,289.00	19,312.20	9,612.47	53.33	82.96	-113.13	-5,133.48	-834.29	3,662.84	3,528.67	134.17	27.300	
14,350.00	8,289.00	19,249.00	9,614.25	53.20	82.52	-112.18	-5,070.31	-833.65	3,683.06	3,549.42	133.63	27.561	
14,400.00	8,289.00	19,210.87	9,615.13	53.05	82.26	-111.49	-5,032.19	-833.28	3,699.70	3,566.38	133.31	27.752	
14,450.00	8,289.00	19,173.66	9,615.54	52.91	82.00	-110.98	-4,994.99	-833.20	3,712.83	3,579.83	133.01	27.914	
14,500.00	8,289.00	19,155.00	9,615.58	52.76	81.87	-110.62	-4,976.33	-833.27	3,722.45	3,589.59	132.86	28.018	
14,530.51	8,289.00	19,129.00	9,615.64	52.67	81.69	-110.47	-4,950.33	-833.49	3,726.54	3,593.89	132.65	28.093	
14,600.00	8,289.00	19,096.36	9,616.01	52.46	81.47	-110.38	-4,917.70	-833.96	3,733.73	3,601.34	132.39	28.203	
14,700.00	8,289.00	19,036.68	9,617.31	52.18	81.05	-110.30	-4,858.05	-835.39	3,741.34	3,609.43	131.92	28.362	
14,762.01	8,289.00	18,975.86	9,618.18	52.01	80.63	-110.28	-4,797.26	-837.22	3,744.03	3,612.59	131.44	28.484	
14,800.00	8,289.00	18,937.70	9,618.49	51.90	80.37	-110.28	-4,759.12	-838.47	3,745.15	3,614.00	131.15	28.556	
14,900.00	8,289.00	18,836.67	9,620.35	51.64	79.67	-110.29	-4,658.15	-841.36	3,748.06	3,617.67	130.39	28.746	
15,000.00	8,289.00	18,703.35	9,622.66	51.38	78.76	-110.31	-4,524.90	-844.84	3,750.75	3,621.36	129.39	28.987	
15,100.00	8,289.00	18,559.83	9,621.94	51.14	77.78	-110.29	-4,381.40	-847.44	3,751.74	3,623.41	128.33	29.235	
15,200.00	8,289.00	18,489.00	9,622.39	50.90	77.29	-110.29	-4,310.59	-848.55	3,753.00	3,625.16	127.84	29.358	
15,300.00	8,289.00	18,404.37	9,623.42	50.66	76.71	-110.30	-4,225.98	-850.21	3,754.85	3,627.60	127.25	29.508	
15,400.00	8,289.00	18,310.87	9,624.58	50.44	76.08	-110.30	-4,132.51	-852.32	3,756.98	3,630.38	126.60	29.675	
15,500.00	8,289.00	18,210.70	9,625.88	50.23	75.40	-110.31	-4,032.37	-854.64	3,759.19	3,633.27	125.92	29.853	
15,600.00	8,289.00	18,095.85	9,627.27	50.02	74.62	-110.32	-3,917.56	-857.13	3,761.24	3,636.09	125.15	30.054	
15,700.00	8,289.00	17,985.94	9,628.49	49.82	73.88	-110.33	-3,807.67	-858.88	3,762.69	3,638.27	124.43	30.240	
15,800.00	8,289.00	17,902.44	9,629.38	49.64	73.32	-110.34	-3,724.19	-860.61	3,764.57	3,640.66	123.90	30.383	
15,900.00	8,289.00	17,766.36	9,630.99	49.46	72.40	-110.35	-3,588.14	-862.83	3,766.11	3,643.08	123.02	30.613	
16,000.00	8,289.00	17,629.32	9,631.82	49.29	71.49	-110.36	-3,451.11	-863.81	3,766.56	3,644.41	122.15	30.837	
16,100.00	8,289.00	17,549.00	9,631.58	49.13	70.95	-110.36	-3,370.79	-864.35	3,766.71	3,645.02	121.69	30.954	
16,200.00	8,289.00	17,470.36	9,631.73	48.98	70.43	-110.36	-3,292.16	-865.06	3,767.28	3,646.03	121.25	31.070	
16,300.00	8,289.00	17,341.64	9,632.48	48.84	69.58	-110.37	-3,163.45	-866.15	3,767.83	3,647.35	120.48	31.273	
16,400.00	8,289.00	17,268.00	9,632.79	48.71	69.09	-110.37	-3,089.81	-866.96	3,768.57	3,648.47	120.10	31.378	
16,500.00	8,289.00	17,188.32	9,634.49	48.59	68.56	-110.39	-3,010.16	-867.76	3,769.86	3,650.16	119.69	31.496	
16,600.00	8,289.00	17,045.57	9,638.49	48.48	67.62	-110.45	-2,867.47	-868.34	3,770.76	3,651.88	118.89	31.718	
16,700.00	8,289.00	16,953.08	9,639.37	48.38	67.02	-110.46	-2,774.99	-868.84	3,771.21	3,652.79	118.42	31.847	
16,800.00	8,289.00	16,874.65	9,640.48	48.29	66.51	-110.47	-2,696.57	-869.67	3,772.26	3,654.20	118.05	31.954	
16,900.00	8,289.00	16,763.76	9,641.33	48.21	65.79	-110.48	-2,585.69	-870.92	3,773.16	3,655.67	117.49	32.115	
17,000.00	8,289.00	16,686.36	9,641.90	48.15	65.29	-110.48	-2,508.30	-872.10	3,774.43	3,657.28	117.15	32.219	
17,100.00	8,289.00	16,599.92	9,643.32	48.09	64.73	-110.50	-2,421.89	-873.59	3,776.20	3,659.43	116.76	32.341	

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 3H
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 3H	**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
17,200.00	8,289.00	16,471.87	9,646.29	48.05	63.90	-110.54	-2,293.88	-875.21	3,777.79	3,661.65	116.14	32.528	
17,300.00	8,289.00	16,372.72	9,648.70	48.01	63.27	-110.57	-2,194.76	-875.78	3,778.77	3,663.06	115.71	32.658	
17,400.00	8,289.00	16,275.98	9,650.17	47.99	62.65	-110.58	-2,098.04	-877.11	3,780.18	3,664.88	115.30	32.786	
17,500.00	8,289.00	16,156.89	9,652.04	47.99	61.90	-110.61	-1,978.97	-878.19	3,781.16	3,666.39	114.77	32.945	
17,600.00	8,289.00	16,062.17	9,653.08	47.99	61.30	-110.62	-1,884.26	-879.02	3,781.97	3,667.57	114.40	33.059	
17,700.00	8,289.00	15,961.41	9,654.60	48.01	60.67	-110.64	-1,783.52	-879.90	3,782.90	3,668.89	114.01	33.181	
17,800.00	8,289.00	15,871.17	9,655.81	48.04	60.10	-110.65	-1,693.29	-880.81	3,783.91	3,670.22	113.69	33.284	
17,900.00	8,289.00	15,764.85	9,657.11	48.08	59.44	-110.67	-1,586.98	-882.04	3,785.01	3,671.73	113.29	33.411	
18,000.00	8,289.00	15,639.89	9,658.47	48.14	58.67	-110.68	-1,462.04	-883.34	3,786.03	3,673.24	112.79	33.566	
18,100.00	8,289.00	15,484.22	9,659.18	48.21	57.72	-110.70	-1,306.37	-883.08	3,785.63	3,673.49	112.14	33.758	
18,200.00	8,289.00	15,419.01	9,658.90	48.29	57.32	-110.70	-1,241.17	-882.98	3,784.94	3,672.93	112.01	33.791	
18,300.00	8,289.00	15,276.75	9,659.55	48.39	56.46	-110.71	-1,098.91	-882.55	3,784.51	3,673.05	111.47	33.952	
18,400.00	8,289.00	15,179.95	9,659.75	48.50	55.89	-110.72	-1,002.12	-881.45	3,783.11	3,671.92	111.19	34.023	
18,500.00	8,289.00	15,108.00	9,660.12	48.63	55.46	-110.73	-930.17	-880.94	3,782.23	3,671.16	111.06	34.055	
18,600.00	8,289.00	15,021.92	9,660.93	48.76	54.95	-110.75	-844.10	-880.66	3,781.85	3,670.98	110.87	34.111	
18,700.00	8,289.00	14,891.52	9,662.55	48.92	54.18	-110.78	-713.71	-879.60	3,781.06	3,670.60	110.46	34.230	
18,800.00	8,289.00	14,796.53	9,663.52	49.08	53.63	-110.80	-618.73	-878.93	3,780.34	3,670.10	110.25	34.290	
18,900.00	8,289.00	14,683.77	9,663.80	49.26	52.97	-110.81	-505.98	-877.84	3,779.09	3,669.14	109.95	34.371	
19,000.00	8,289.00	14,595.35	9,663.72	49.46	52.47	-110.81	-417.56	-877.38	3,778.16	3,668.37	109.79	34.413	
19,100.00	8,289.00	14,492.63	9,663.70	50.02	51.89	-110.82	-314.84	-876.89	3,777.29	3,667.91	109.38	34.535	
19,101.33	8,289.00	14,491.22	9,663.70	50.05	51.88	-110.82	-313.43	-876.88	3,777.28	3,667.91	109.37	34.536	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	29.14	29.14	0.00	0.05	1.24	4,644.35	100.39	4,645.44				
100.00	100.00	119.08	119.08	0.28	0.19	1.24	4,644.51	100.37	4,645.61	4,645.15	0.47	9,987.396	
200.00	200.00	209.06	209.05	0.63	0.35	1.24	4,644.87	100.33	4,646.01	4,645.03	0.98	4,728.704	
300.00	300.00	300.00	300.00	0.99	0.67	1.24	4,645.42	100.15	4,646.62	4,644.95	1.67	2,787.775	
400.00	400.00	389.00	388.99	1.35	0.99	1.23	4,646.20	99.74	4,647.48	4,645.13	2.34	1,982.744	
500.00	500.00	460.99	460.98	1.71	1.25	1.22	4,647.13	99.20	4,648.74	4,645.78	2.96	1,570.300	
600.00	600.00	630.50	630.47	2.07	1.85	1.22	4,648.46	98.91	4,649.52	4,645.60	3.92	1,187.503	
700.00	700.00	760.72	760.69	2.43	2.29	1.23	4,648.34	99.50	4,649.49	4,644.78	4.72	986.045	
800.00	800.00	896.63	896.58	2.79	2.75	1.21	4,646.60	97.98	4,648.08	4,642.54	5.54	839.663	
900.00	900.00	993.85	993.77	3.14	3.09	1.19	4,645.41	96.16	4,646.81	4,640.58	6.23	745.755	
1,000.00	1,000.00	1,088.28	1,088.17	3.50	3.42	1.16	4,644.21	93.96	4,645.49	4,638.57	6.92	671.362	
1,100.00	1,100.00	1,174.92	1,174.80	3.86	3.72	1.14	4,643.32	92.54	4,644.43	4,636.85	7.58	612.551	
1,200.00	1,200.00	1,276.00	1,275.86	4.22	4.08	1.13	4,642.48	91.36	4,643.59	4,635.29	8.30	559.727	
1,300.00	1,300.00	1,382.93	1,382.79	4.58	4.46	1.11	4,641.40	90.04	4,642.55	4,633.52	9.03	514.034	
1,400.00	1,400.00	1,469.27	1,469.12	4.94	4.76	1.10	4,640.57	89.30	4,641.57	4,631.88	9.69	478.859	
1,500.00	1,500.00	1,556.07	1,555.91	5.29	5.06	1.10	4,640.02	89.48	4,640.94	4,630.59	10.35	448.296	
1,600.00	1,600.00	1,662.12	1,661.95	5.65	5.42	1.12	4,639.47	90.45	4,640.45	4,629.37	11.08	418.958	
1,700.00	1,700.00	1,820.06	1,819.87	6.01	5.97	1.14	4,637.56	92.54	4,639.31	4,627.33	11.98	387.220	
1,800.00	1,800.00	1,967.28	1,967.03	6.37	6.49	1.16	4,633.88	93.92	4,636.79	4,623.93	12.85	360.754	
1,900.00	1,899.98	2,043.64	2,043.35	6.72	6.76	-103.60	4,631.81	95.30	4,634.53	4,621.06	13.47	344.080	
1,995.99	1,995.84	2,092.69	2,092.38	7.04	6.93	-103.63	4,630.79	96.35	4,633.81	4,619.85	13.97	331.757	
2,000.00	1,999.84	2,094.34	2,094.03	7.06	6.93	-103.63	4,630.77	96.37	4,633.82	4,619.84	13.99	331.298	
2,100.00	2,099.45	2,159.00	2,158.69	7.40	7.16	-103.68	4,630.55	96.58	4,635.33	4,620.78	14.55	318.493	
2,200.00	2,198.70	2,199.88	2,199.56	7.74	7.30	-103.68	4,630.83	96.31	4,638.54	4,623.50	15.04	308.442	
2,300.00	2,297.47	2,321.43	2,321.12	8.09	7.72	-103.83	4,631.50	96.38	4,642.89	4,627.08	15.81	293.742	
2,400.00	2,395.62	2,471.64	2,471.31	8.44	8.24	-104.07	4,630.80	98.17	4,647.07	4,630.39	16.68	278.632	
2,491.84	2,485.13	2,545.48	2,545.14	8.76	8.50	-104.18	4,630.20	97.85	4,651.44	4,634.18	17.26	269.484	
2,500.00	2,493.06	2,551.46	2,551.13	8.79	8.53	-104.20	4,630.16	97.80	4,651.88	4,634.57	17.31	268.733	
2,600.00	2,590.16	2,636.15	2,635.80	9.14	8.82	-104.46	4,629.83	96.53	4,657.55	4,639.59	17.96	259.298	
2,700.00	2,687.25	2,742.45	2,742.00	9.50	9.20	-104.81	4,629.40	92.00	4,663.37	4,644.68	18.69	249.479	
2,800.00	2,784.35	2,831.00	2,830.30	9.86	9.51	-105.14	4,628.96	85.35	4,669.31	4,649.94	19.36	241.146	
2,900.00	2,881.45	2,907.03	2,905.94	10.23	9.77	-105.45	4,628.76	77.71	4,675.71	4,655.72	19.99	233.886	
3,000.00	2,978.55	2,982.99	2,981.31	10.60	10.04	-105.78	4,628.84	68.23	4,682.74	4,662.12	20.62	227.084	
3,100.00	3,075.65	3,062.59	3,060.01	10.96	10.32	-106.14	4,629.13	56.39	4,690.36	4,669.09	21.27	220.564	
3,200.00	3,172.74	3,145.33	3,141.49	11.34	10.61	-106.54	4,629.54	41.97	4,698.49	4,676.57	21.92	214.324	
3,300.00	3,269.84	3,229.77	3,224.20	11.71	10.91	-106.97	4,629.99	25.05	4,707.13	4,684.54	22.59	208.398	
3,400.00	3,366.94	3,322.27	3,314.49	12.08	11.23	-107.46	4,630.46	4.90	4,716.20	4,692.91	23.28	202.553	
3,500.00	3,464.04	3,436.35	3,425.61	12.46	11.64	-108.08	4,630.62	-20.90	4,725.41	4,701.35	24.06	196.375	
3,600.00	3,561.14	3,575.26	3,561.26	12.83	12.14	-108.81	4,629.89	-50.78	4,734.36	4,709.42	24.94	189.843	
3,700.00	3,658.24	3,661.70	3,645.74	13.21	12.45	-109.25	4,628.95	-69.09	4,743.15	4,717.53	25.62	185.115	
3,800.00	3,755.33	3,762.71	3,744.02	13.59	12.82	-109.80	4,627.68	-92.35	4,752.35	4,725.99	26.36	180.262	
3,900.00	3,852.43	3,870.00	3,848.04	13.97	13.21	-110.39	4,625.57	-118.56	4,761.43	4,734.30	27.13	175.497	
4,000.00	3,949.53	3,930.92	3,907.01	14.35	13.44	-110.73	4,624.38	-133.80	4,771.10	4,743.38	27.72	172.087	
4,100.00	4,046.63	3,964.00	3,939.06	14.73	13.56	-110.91	4,624.01	-141.98	4,782.02	4,753.81	28.21	169.520	
4,200.00	4,143.73	4,029.60	4,002.69	15.11	13.80	-111.27	4,623.84	-157.95	4,793.99	4,765.18	28.82	166.354	
4,300.00	4,240.82	4,092.02	4,063.31	15.50	14.03	-111.60	4,624.32	-172.79	4,807.10	4,777.68	29.41	163.433	
4,400.00	4,337.92	4,177.45	4,146.41	15.88	14.35	-112.05	4,625.27	-192.56	4,820.85	4,790.75	30.10	160.159	
4,500.00	4,435.02	4,281.08	4,247.42	16.27	14.73	-112.59	4,626.39	-215.74	4,834.85	4,803.99	30.86	156.659	
4,600.00	4,532.12	4,379.58	4,343.34	16.65	15.10	-113.10	4,627.13	-238.07	4,848.98	4,817.38	31.60	153.426	
4,700.00	4,629.22	4,479.17	4,440.24	17.04	15.47	-113.61	4,627.67	-261.08	4,863.38	4,831.02	32.35	150.320	
4,800.00	4,726.31	4,558.23	4,517.08	17.42	15.76	-114.03	4,627.86	-279.67	4,877.98	4,844.96	33.02	147.733	
4,900.00	4,823.41	4,625.00	4,582.05	17.81	16.01	-114.37	4,628.59	-295.06	4,893.55	4,859.92	33.63	145.500	

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 3H
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 3H	**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
5,000.00	4,920.51	4,686.22	4,641.68	18.20	16.24	-114.68	4,629.64	-308.87	4,909.94	4,875.72	34.22	143.474	
5,100.00	5,017.61	4,817.91	4,770.17	18.58	16.74	-115.33	4,631.75	-337.70	4,926.56	4,891.46	35.11	140.325	
5,200.00	5,114.71	4,939.97	4,889.60	18.97	17.19	-115.91	4,632.95	-362.81	4,942.67	4,906.72	35.95	137.473	
5,300.00	5,211.80	5,036.05	4,983.82	19.36	17.55	-116.36	4,633.66	-381.63	4,958.68	4,921.99	36.69	135.149	
5,400.00	5,308.90	5,114.08	5,060.33	19.75	17.85	-116.72	4,634.38	-396.96	4,975.17	4,937.81	37.35	133.200	
5,500.00	5,406.00	14,644.00	9,860.80	20.14	52.75	170.34	-166.15	-1,537.30	4,991.13	4,937.45	53.67	92.989	
5,600.00	5,503.10	14,644.00	9,860.80	20.53	52.75	170.34	-166.15	-1,537.30	4,916.30	4,862.19	54.12	90.848	
5,700.00	5,600.20	14,646.32	9,860.80	20.91	52.76	170.30	-168.47	-1,537.35	4,842.38	4,787.80	54.59	88.709	
5,800.00	5,697.30	14,654.84	9,860.79	21.30	52.81	170.15	-176.99	-1,537.52	4,769.41	4,714.30	55.11	86.538	
5,900.00	5,794.39	14,663.44	9,860.79	21.69	52.85	170.00	-185.58	-1,537.69	4,697.42	4,641.77	55.66	84.398	
6,000.00	5,891.49	14,672.10	9,860.78	22.09	52.90	169.85	-194.24	-1,537.84	4,626.47	4,570.25	56.22	82.290	
6,100.00	5,988.59	14,680.83	9,860.78	22.48	52.95	169.70	-202.97	-1,537.99	4,556.59	4,499.78	56.80	80.216	
6,200.00	6,085.69	14,689.64	9,860.77	22.87	52.99	169.55	-211.78	-1,538.13	4,487.84	4,430.43	57.41	78.176	
6,300.00	6,182.79	14,698.52	9,860.76	23.26	53.04	169.39	-220.66	-1,538.26	4,420.27	4,362.24	58.03	76.171	
6,400.00	6,279.88	14,707.48	9,860.76	23.65	53.09	169.24	-229.61	-1,538.38	4,353.94	4,295.27	58.68	74.202	
6,500.00	6,376.98	14,716.51	9,860.75	24.04	53.14	169.08	-238.64	-1,538.49	4,288.91	4,229.56	59.34	72.272	
6,600.00	6,474.08	14,725.61	9,860.74	24.43	53.19	168.92	-247.75	-1,538.59	4,225.23	4,165.19	60.03	70.379	
6,700.00	6,571.18	14,734.79	9,860.73	24.82	53.24	168.76	-256.93	-1,538.68	4,162.96	4,102.21	60.75	68.527	
6,800.00	6,668.28	14,745.64	9,860.72	25.22	53.30	168.57	-267.78	-1,538.77	4,102.17	4,040.68	61.50	66.707	
6,900.00	6,765.37	14,757.43	9,860.70	25.61	53.36	168.37	-279.57	-1,538.84	4,042.93	3,980.66	62.27	64.925	
7,000.00	6,862.47	14,769.31	9,860.68	26.00	53.43	168.16	-291.44	-1,538.89	3,985.30	3,922.23	63.07	63.189	
7,100.00	6,959.57	14,781.28	9,860.66	26.39	53.49	167.95	-303.41	-1,538.92	3,929.35	3,865.45	63.89	61.499	
7,200.00	7,056.67	14,793.34	9,860.64	26.78	53.56	167.74	-315.48	-1,538.92	3,875.15	3,810.41	64.74	59.857	
7,300.00	7,153.77	14,805.51	9,860.61	27.18	53.62	167.53	-327.64	-1,538.90	3,822.79	3,757.17	65.61	58.263	
7,400.00	7,250.86	14,817.77	9,860.58	27.57	53.69	167.32	-339.90	-1,538.85	3,772.33	3,705.82	66.51	56.720	
7,500.00	7,347.96	14,830.12	9,860.54	27.96	53.76	167.10	-352.26	-1,538.78	3,723.85	3,656.42	67.43	55.228	
7,600.00	7,445.06	14,842.58	9,860.51	28.36	53.83	166.88	-364.72	-1,538.68	3,677.43	3,609.06	68.37	53.789	
7,700.00	7,542.16	14,818.40	9,860.57	28.75	53.70	167.30	-340.53	-1,538.76	3,633.16	3,563.99	69.17	52.524	
7,800.00	7,639.26	14,847.84	9,860.49	29.14	53.86	166.79	-369.97	-1,538.65	3,591.14	3,520.91	70.23	51.135	
7,900.00	7,736.36	14,853.41	9,860.48	29.54	53.89	166.69	-375.55	-1,538.61	3,551.42	3,480.22	71.20	49.878	
7,902.86	7,739.13	14,853.57	9,860.48	29.55	53.89	166.69	-375.70	-1,538.61	3,550.32	3,479.09	71.23	49.843	
7,950.00	7,784.76	14,858.00	9,860.46	29.73	53.91	151.46	-380.13	-1,538.58	3,532.39	3,460.69	71.71	49.263	
8,000.00	7,832.63	14,866.61	9,860.44	29.93	53.96	139.72	-388.74	-1,538.52	3,513.92	3,441.69	72.23	48.647	
8,050.00	7,879.58	14,879.18	9,860.41	30.12	54.03	131.97	-401.32	-1,538.44	3,496.13	3,423.35	72.78	48.036	
8,100.00	7,925.27	14,895.63	9,860.37	30.31	54.12	126.95	-417.76	-1,538.33	3,479.12	3,405.77	73.35	47.434	
8,150.00	7,969.35	14,915.82	9,860.33	30.49	54.23	123.65	-437.96	-1,538.21	3,462.97	3,389.04	73.92	46.845	
8,200.00	8,011.47	14,993.08	9,860.27	30.67	54.66	120.70	-515.21	-1,537.10	3,447.63	3,372.91	74.72	46.141	
8,250.00	8,051.32	15,006.24	9,860.31	30.83	54.73	119.46	-528.35	-1,536.59	3,432.83	3,357.57	75.25	45.617	
8,300.00	8,088.60	15,048.52	9,860.32	30.99	54.97	118.35	-570.62	-1,535.54	3,419.02	3,343.13	75.89	45.053	
8,350.00	8,123.02	15,067.12	9,860.27	31.14	55.07	117.88	-589.22	-1,535.20	3,406.37	3,329.95	76.42	44.574	
8,400.00	8,154.32	15,087.11	9,860.19	31.28	55.18	117.62	-609.21	-1,534.98	3,394.91	3,317.97	76.94	44.124	
8,450.00	8,182.27	15,113.00	9,860.01	31.42	55.33	117.44	-635.10	-1,534.91	3,384.71	3,307.24	77.47	43.693	
8,500.00	8,206.64	15,144.44	9,859.76	31.54	55.50	117.33	-666.54	-1,534.99	3,375.71	3,297.72	77.99	43.283	
8,550.00	8,227.26	15,186.01	9,859.51	31.66	55.74	117.25	-708.11	-1,535.11	3,367.81	3,289.28	78.53	42.884	
8,600.00	8,243.96	15,225.19	9,859.33	31.78	55.96	117.26	-747.29	-1,535.25	3,361.01	3,281.97	79.04	42.524	
8,621.67	8,249.95	15,240.87	9,859.29	31.83	56.05	117.29	-762.97	-1,535.33	3,358.43	3,279.19	79.24	42.381	
8,700.00	8,267.63	15,301.00	9,859.20	32.00	56.39	117.41	-823.09	-1,535.85	3,350.99	3,271.01	79.97	41.901	
8,800.00	8,282.55	15,350.46	9,859.30	32.23	56.68	117.51	-872.54	-1,536.73	3,346.09	3,265.34	80.75	41.437	
8,900.00	8,288.79	15,564.23	9,859.51	32.46	57.91	117.37	-1,086.27	-1,539.41	3,345.33	3,263.16	82.16	40.715	
8,921.67	8,289.00	15,599.47	9,859.43	32.51	58.12	117.38	-1,121.51	-1,538.96	3,345.05	3,262.63	82.41	40.588	
9,000.00	8,289.00	15,648.20	9,859.53	32.69	58.40	117.38	-1,170.23	-1,538.49	3,344.69	3,261.68	83.01	40.294	
9,015.63	8,289.00	15,659.72	9,859.59	32.73	58.47	117.38	-1,181.75	-1,538.40	3,344.67	3,261.53	83.13	40.232	

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 3H
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 3H	**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
9,100.00	8,289.00	15,721.34	9,860.00	32.94	58.83	117.39	-1,243.37	-1,538.11	3,344.91	3,261.09	83.82	39.907	
9,200.00	8,289.00	15,886.24	9,860.13	33.20	59.81	117.39	-1,408.26	-1,537.33	3,345.15	3,260.10	85.04	39.334	
9,300.00	8,289.00	15,973.78	9,859.34	33.48	60.33	117.38	-1,495.79	-1,536.25	3,344.03	3,258.07	85.96	38.901	
9,400.00	8,289.00	16,118.28	9,857.86	33.77	61.20	117.37	-1,640.26	-1,533.94	3,342.58	3,255.43	87.15	38.355	
9,500.00	8,289.00	16,239.00	9,856.10	34.07	61.93	117.37	-1,760.91	-1,530.50	3,339.72	3,251.47	88.25	37.844	
9,600.00	8,289.00	16,287.49	9,856.13	34.38	62.23	117.38	-1,809.39	-1,529.33	3,337.80	3,248.76	89.04	37.486	
9,700.00	8,289.00	16,351.89	9,855.88	34.70	62.62	117.38	-1,873.78	-1,528.56	3,336.97	3,247.06	89.91	37.113	
9,723.32	8,289.00	16,365.93	9,855.79	34.78	62.71	117.38	-1,887.81	-1,528.53	3,336.94	3,246.82	90.12	37.029	
9,800.00	8,289.00	16,427.00	9,855.19	35.04	63.08	117.36	-1,948.88	-1,528.99	3,337.34	3,246.49	90.85	36.734	
9,900.00	8,289.00	16,709.00	9,844.53	35.39	64.84	117.19	-2,230.50	-1,529.33	3,337.97	3,245.15	92.81	35.965	
10,000.00	8,289.00	16,750.85	9,843.25	35.75	65.10	117.18	-2,272.30	-1,527.76	3,333.76	3,240.11	93.65	35.599	
10,100.00	8,289.00	16,803.00	9,842.00	36.12	65.43	117.16	-2,324.43	-1,527.08	3,331.59	3,237.07	94.53	35.245	
10,200.00	8,289.00	16,844.29	9,841.23	36.51	65.69	117.15	-2,365.71	-1,527.18	3,330.95	3,235.60	95.35	34.933	
10,204.76	8,289.00	16,847.84	9,841.17	36.53	65.71	117.15	-2,369.26	-1,527.19	3,330.95	3,235.55	95.40	34.916	
10,300.00	8,289.00	16,927.38	9,840.01	36.90	66.21	117.12	-2,448.79	-1,527.74	3,331.26	3,234.87	96.39	34.559	
10,400.00	8,289.00	17,015.85	9,839.07	37.31	66.77	117.10	-2,537.25	-1,528.32	3,331.77	3,234.30	97.47	34.182	
10,500.00	8,289.00	17,085.00	9,839.94	37.72	67.21	117.11	-2,606.39	-1,528.63	3,333.11	3,234.66	98.45	33.857	
10,600.00	8,289.00	17,300.43	9,841.07	38.15	68.59	117.14	-2,821.79	-1,526.06	3,332.18	3,231.97	100.20	33.254	
10,700.00	8,289.00	17,413.06	9,838.52	38.58	69.31	117.10	-2,934.37	-1,525.01	3,330.76	3,229.31	101.45	32.832	
10,800.00	8,289.00	17,499.59	9,837.14	39.03	69.87	117.09	-3,020.85	-1,523.01	3,328.43	3,225.87	102.57	32.452	
10,900.00	8,289.00	17,555.00	9,837.78	39.48	70.22	117.11	-3,076.25	-1,522.34	3,327.89	3,224.37	103.52	32.147	
10,910.80	8,289.00	17,555.00	9,837.78	39.53	70.22	117.11	-3,076.25	-1,522.34	3,327.87	3,224.28	103.59	32.125	
11,000.00	8,289.00	17,630.75	9,838.61	39.94	70.71	117.12	-3,151.99	-1,521.90	3,328.18	3,223.59	104.59	31.822	
11,100.00	8,289.00	17,743.00	9,840.82	40.41	71.44	117.17	-3,264.18	-1,519.53	3,327.49	3,221.64	105.85	31.435	
11,133.78	8,289.00	17,777.09	9,841.98	40.57	71.67	117.19	-3,298.24	-1,518.60	3,327.34	3,221.08	106.26	31.312	
11,133.78	8,289.00	17,777.09	9,841.98	40.57	71.67	117.19	-3,298.24	-1,518.60	3,327.34	3,221.08	106.26	31.312	
11,200.00	8,289.00	17,812.31	9,842.58	40.89	71.90	117.20	-3,333.45	-1,518.32	3,327.65	3,220.75	106.89	31.130	
11,300.00	8,289.00	17,920.62	9,842.39	41.38	72.60	117.19	-3,441.75	-1,519.36	3,328.84	3,220.67	108.17	30.773	
11,400.00	8,289.00	18,002.05	9,842.60	41.88	73.14	117.19	-3,523.18	-1,519.69	3,329.73	3,220.43	109.30	30.464	
11,500.00	8,289.00	18,077.71	9,843.36	42.38	73.64	117.19	-3,598.84	-1,520.32	3,331.33	3,220.93	110.40	30.176	
11,600.00	8,289.00	18,171.16	9,843.96	42.89	74.25	117.18	-3,692.27	-1,521.94	3,333.55	3,221.94	111.61	29.868	
11,700.00	8,289.00	18,279.05	9,844.59	43.41	74.96	117.18	-3,800.15	-1,523.58	3,335.55	3,222.64	112.92	29.540	
11,800.00	8,289.00	18,376.32	9,845.03	43.93	75.61	117.17	-3,897.40	-1,525.04	3,337.50	3,223.33	114.17	29.234	
11,900.00	8,289.00	18,529.05	9,846.22	44.46	76.62	117.17	-4,050.12	-1,526.28	3,339.10	3,223.34	115.76	28.845	
12,000.00	8,289.00	18,774.03	9,846.90	45.00	78.27	117.22	-4,294.98	-1,520.49	3,337.74	3,219.91	117.83	28.326	
12,100.00	8,289.00	18,862.68	9,845.14	45.55	78.86	117.21	-4,383.54	-1,517.26	3,333.99	3,214.92	119.07	27.999	
12,200.00	8,289.00	18,967.82	9,846.18	46.10	79.57	117.27	-4,488.55	-1,511.97	3,330.36	3,209.97	120.39	27.662	
12,300.00	8,289.00	19,058.00	9,847.03	46.65	80.17	117.32	-4,578.60	-1,507.29	3,326.59	3,204.95	121.64	27.347	
12,400.00	8,289.00	19,113.29	9,847.65	47.21	80.55	117.34	-4,633.83	-1,504.88	3,323.72	3,201.01	122.71	27.086	
12,500.00	8,289.00	19,171.05	9,848.38	47.78	80.94	117.36	-4,691.57	-1,503.42	3,322.38	3,198.59	123.78	26.840	
12,600.00	8,289.00	19,246.00	9,849.17	48.35	81.45	117.38	-4,766.51	-1,502.06	3,321.71	3,196.76	124.95	26.584	
12,650.04	8,289.00	19,294.08	9,849.59	48.64	81.77	117.39	-4,814.58	-1,501.45	3,321.55	3,195.95	125.60	26.445	CC
12,688.51	8,289.00	19,320.52	9,849.82	48.86	81.95	117.40	-4,841.02	-1,501.26	3,321.62	3,195.58	126.04	26.354	
12,700.00	8,289.00	19,340.00	9,849.99	48.93	82.09	117.40	-4,860.50	-1,501.19	3,321.79	3,195.55	126.24	26.313	ES
12,750.00	8,289.00	19,361.74	9,850.18	49.23	82.23	117.52	-4,882.24	-1,501.20	3,324.78	3,198.05	126.73	26.235	
12,800.00	8,289.00	19,394.23	9,850.44	49.53	82.45	117.79	-4,914.73	-1,501.36	3,331.67	3,204.38	127.30	26.173	
12,850.00	8,289.00	19,434.00	9,850.74	49.84	82.73	118.20	-4,954.49	-1,501.83	3,342.41	3,214.50	127.91	26.131	SF
12,900.00	8,289.00	19,461.64	9,850.96	50.15	82.91	118.80	-4,982.13	-1,502.28	3,356.85	3,228.40	128.44	26.135	
12,950.00	8,289.00	19,497.44	9,851.30	50.47	83.16	119.57	-5,017.92	-1,502.94	3,374.86	3,245.83	129.03	26.155	
13,000.00	8,289.00	19,529.00	9,851.65	50.79	83.37	120.56	-5,049.47	-1,503.60	3,396.32	3,266.74	129.58	26.209	
13,050.00	8,289.00	19,559.65	9,851.96	51.10	83.58	121.79	-5,080.10	-1,504.37	3,421.10	3,290.98	130.12	26.291	
13,100.00	8,289.00	19,586.05	9,852.15	51.40	83.76	123.32	-5,106.50	-1,505.19	3,449.05	3,318.43	130.62	26.404	

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 3H
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 3H	**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
13,150.00	8,289.00	19,622.00	9,852.30	51.70	84.01	125.11	-5,142.42	-1,506.54	3,479.99	3,348.81	131.19	26.527	
13,200.00	8,289.00	19,622.00	9,852.30	51.99	84.01	127.66	-5,142.42	-1,506.54	3,513.65	3,382.19	131.46	26.728	
13,250.00	8,289.00	19,646.57	9,852.38	52.26	84.18	130.49	-5,166.96	-1,507.62	3,549.83	3,417.92	131.91	26.911	
13,300.00	8,289.00	19,660.60	9,852.45	52.52	84.27	134.11	-5,180.98	-1,508.31	3,588.30	3,456.04	132.26	27.131	
13,350.00	8,289.00	19,672.59	9,852.51	52.77	84.35	138.60	-5,192.95	-1,508.93	3,628.74	3,496.17	132.57	27.371	
13,400.00	8,289.00	19,682.46	9,852.57	53.00	84.42	144.15	-5,202.81	-1,509.47	3,670.87	3,538.02	132.85	27.631	
13,450.00	8,289.00	19,709.00	9,852.75	53.20	84.60	150.46	-5,229.30	-1,511.03	3,714.47	3,581.22	133.25	27.875	
13,500.00	8,289.00	19,709.00	9,852.75	53.39	84.60	158.79	-5,229.30	-1,511.03	3,759.00	3,625.58	133.42	28.175	
13,550.00	8,289.00	19,709.00	9,852.75	53.55	84.60	168.47	-5,229.30	-1,511.03	3,804.31	3,670.75	133.56	28.484	
13,600.00	8,289.00	19,709.00	9,852.75	53.69	84.60	179.08	-5,229.30	-1,511.03	3,850.07	3,716.38	133.69	28.799	
13,650.00	8,289.00	19,709.00	9,852.75	53.80	84.60	-170.09	-5,229.30	-1,511.03	3,895.95	3,762.16	133.79	29.119	
13,700.00	8,289.00	19,709.00	9,852.75	53.89	84.60	-159.84	-5,229.30	-1,511.03	3,941.66	3,807.77	133.89	29.440	
13,750.00	8,289.00	19,709.00	9,852.75	53.96	84.60	-150.77	-5,229.30	-1,511.03	3,986.89	3,852.93	133.96	29.761	
13,800.00	8,289.00	19,684.83	9,852.58	54.00	84.44	-142.55	-5,205.17	-1,509.60	4,031.22	3,897.40	133.82	30.125	
13,850.00	8,289.00	19,676.08	9,852.53	54.02	84.38	-136.17	-5,196.44	-1,509.12	4,074.53	3,940.74	133.79	30.454	
13,900.00	8,289.00	19,665.55	9,852.47	54.01	84.31	-130.99	-5,185.92	-1,508.56	4,116.49	3,982.75	133.74	30.780	
13,950.00	8,289.00	19,653.32	9,852.41	53.99	84.22	-126.80	-5,173.71	-1,507.95	4,156.82	4,023.15	133.66	31.099	
14,000.00	8,289.00	19,622.00	9,852.30	53.94	84.01	-123.24	-5,142.42	-1,506.54	4,195.34	4,061.92	133.42	31.445	
14,050.00	8,289.00	19,622.00	9,852.30	53.88	84.01	-120.61	-5,142.42	-1,506.54	4,231.60	4,098.18	133.43	31.714	
14,100.00	8,289.00	19,622.00	9,852.30	53.80	84.01	-118.45	-5,142.42	-1,506.54	4,265.65	4,132.22	133.43	31.969	
14,150.00	8,289.00	19,582.14	9,852.13	53.70	83.74	-116.47	-5,102.59	-1,505.06	4,297.00	4,163.91	133.10	32.284	
14,200.00	8,289.00	19,558.68	9,851.95	53.59	83.58	-114.94	-5,079.14	-1,504.34	4,325.65	4,192.75	132.90	32.548	
14,250.00	8,289.00	19,529.00	9,851.65	53.47	83.37	-113.67	-5,049.47	-1,503.60	4,351.35	4,218.70	132.65	32.804	
14,300.00	8,289.00	19,502.97	9,851.36	53.33	83.20	-112.66	-5,023.45	-1,503.05	4,373.92	4,241.50	132.43	33.029	
14,350.00	8,289.00	19,469.45	9,851.03	53.20	82.97	-111.83	-4,989.94	-1,502.41	4,393.19	4,261.05	132.14	33.245	
14,400.00	8,289.00	19,434.00	9,850.74	53.05	82.73	-111.19	-4,954.49	-1,501.83	4,409.03	4,277.18	131.85	33.440	
14,450.00	8,289.00	19,406.96	9,850.54	52.91	82.54	-110.73	-4,927.45	-1,501.48	4,421.38	4,289.76	131.62	33.592	
14,500.00	8,289.00	19,378.77	9,850.32	52.76	82.35	-110.40	-4,899.27	-1,501.26	4,430.21	4,298.82	131.39	33.719	
14,530.51	8,289.00	19,361.41	9,850.17	52.67	82.23	-110.27	-4,881.91	-1,501.20	4,433.84	4,302.59	131.24	33.783	
14,600.00	8,289.00	19,320.59	9,849.82	52.46	81.95	-110.19	-4,841.08	-1,501.26	4,439.71	4,308.80	130.91	33.914	
14,700.00	8,289.00	19,246.00	9,849.17	52.18	81.45	-110.11	-4,766.51	-1,502.06	4,445.07	4,314.75	130.32	34.108	
14,762.01	8,289.00	19,211.20	9,848.84	52.01	81.21	-110.09	-4,731.71	-1,502.66	4,446.43	4,316.38	130.04	34.192	
14,800.00	8,289.00	19,177.52	9,848.46	51.90	80.98	-110.09	-4,698.04	-1,503.29	4,446.80	4,317.01	129.79	34.263	
14,900.00	8,289.00	19,123.24	9,847.77	51.64	80.62	-110.07	-4,643.78	-1,504.55	4,448.23	4,318.88	129.35	34.389	
15,000.00	8,289.00	19,058.00	9,847.03	51.38	80.17	-110.05	-4,578.60	-1,507.29	4,451.12	4,322.28	128.84	34.547	
15,100.00	8,289.00	19,016.51	9,846.62	51.14	79.90	-110.04	-4,537.17	-1,509.47	4,454.90	4,326.41	128.49	34.672	
15,200.00	8,289.00	18,908.71	9,845.63	50.90	79.17	-110.01	-4,429.51	-1,514.95	4,458.96	4,331.24	127.71	34.913	
15,300.00	8,289.00	18,759.08	9,847.03	50.66	78.16	-110.00	-4,280.05	-1,520.95	4,462.76	4,336.07	126.69	35.225	
15,400.00	8,289.00	18,479.15	9,845.62	50.44	76.29	-109.96	-4,000.22	-1,526.31	4,464.64	4,339.85	124.79	35.777	
15,500.00	8,289.00	18,342.00	9,844.91	50.23	75.38	-109.97	-3,863.09	-1,524.49	4,462.72	4,338.85	123.87	36.029	
15,600.00	8,289.00	18,242.43	9,844.38	50.02	74.72	-109.97	-3,763.53	-1,523.04	4,460.76	4,337.54	123.22	36.202	
15,700.00	8,289.00	18,124.53	9,843.69	49.82	73.94	-109.97	-3,645.65	-1,521.10	4,458.60	4,336.15	122.46	36.410	
15,800.00	8,289.00	18,055.26	9,843.15	49.64	73.49	-109.97	-3,576.39	-1,520.06	4,456.53	4,334.48	122.04	36.516	
15,900.00	8,289.00	17,984.58	9,842.47	49.46	73.02	-109.96	-3,505.71	-1,519.60	4,455.17	4,333.54	121.63	36.630	
16,000.00	8,289.00	17,873.54	9,842.51	49.29	72.30	-109.97	-3,394.67	-1,519.01	4,454.29	4,333.34	120.95	36.826	
16,100.00	8,289.00	17,804.72	9,842.50	49.13	71.85	-109.97	-3,325.87	-1,518.33	4,453.07	4,332.50	120.57	36.934	
16,143.69	8,289.00	17,787.63	9,842.22	49.06	71.74	-109.97	-3,308.77	-1,518.45	4,452.94	4,332.46	120.49	36.958	
16,200.00	8,289.00	17,743.00	9,840.82	48.98	71.44	-109.95	-3,264.18	-1,519.53	4,453.31	4,333.08	120.23	37.040	
16,300.00	8,289.00	17,620.67	9,838.50	48.84	70.65	-109.91	-3,141.91	-1,521.95	4,454.29	4,334.78	119.51	37.271	
16,376.23	8,289.00	17,555.00	9,837.78	48.74	70.22	-109.90	-3,076.25	-1,522.34	4,454.12	4,334.97	119.15	37.382	
16,400.00	8,289.00	17,555.00	9,837.78	48.71	70.22	-109.90	-3,076.25	-1,522.34	4,454.19	4,335.02	119.17	37.378	
16,500.00	8,289.00	17,503.21	9,837.14	48.59	69.89	-109.89	-3,024.47	-1,522.92	4,454.82	4,335.92	118.91	37.465	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	8,289.00	17,415.08	9,838.47	48.48	69.32	-109.90	-2,936.38	-1,524.98	4,457.06	4,338.61	118.44	37.630	
16,700.00	8,289.00	17,303.31	9,841.05	48.38	68.60	-109.93	-2,824.66	-1,526.01	4,458.23	4,340.37	117.86	37.827	
16,800.00	8,289.00	17,066.56	9,839.52	48.29	67.10	-109.91	-2,587.96	-1,528.56	4,459.02	4,342.48	116.54	38.263	
16,900.00	8,289.00	16,990.00	9,839.24	48.21	66.61	-109.91	-2,511.40	-1,528.17	4,457.96	4,341.77	116.19	38.368	
17,000.00	8,289.00	16,899.14	9,840.39	48.15	66.04	-109.93	-2,420.55	-1,527.52	4,457.29	4,341.52	115.78	38.499	
17,100.00	8,289.00	16,828.91	9,841.51	48.09	65.59	-109.94	-2,350.33	-1,527.13	4,456.90	4,341.41	115.49	38.590	
17,107.10	8,289.00	16,823.98	9,841.60	48.09	65.56	-109.94	-2,345.40	-1,527.11	4,456.90	4,341.43	115.47	38.597	
17,200.00	8,289.00	16,803.00	9,842.00	48.05	65.43	-109.95	-2,324.43	-1,527.08	4,457.50	4,342.05	115.45	38.608	
17,300.00	8,289.00	16,755.35	9,843.12	48.01	65.13	-109.96	-2,276.79	-1,527.64	4,459.37	4,344.08	115.29	38.679	
17,400.00	8,289.00	16,427.00	9,855.19	47.99	63.08	-110.11	-1,948.88	-1,528.99	4,462.88	4,349.23	113.65	39.270	
17,500.00	8,289.00	16,396.22	9,855.53	47.99	62.89	-110.11	-1,918.11	-1,528.63	4,461.47	4,347.83	113.64	39.261	
17,569.31	8,289.00	16,361.30	9,855.82	47.99	62.68	-110.12	-1,883.19	-1,528.54	4,461.20	4,347.65	113.55	39.288	
17,600.00	8,289.00	16,333.00	9,855.99	47.99	62.51	-110.12	-1,854.89	-1,528.69	4,461.29	4,347.85	113.44	39.326	
17,700.00	8,289.00	16,290.83	9,856.13	48.01	62.25	-110.12	-1,812.72	-1,529.27	4,462.11	4,348.75	113.36	39.362	
17,800.00	8,289.00	16,239.00	9,856.10	48.04	61.93	-110.11	-1,760.91	-1,530.50	4,463.95	4,350.73	113.22	39.426	
17,900.00	8,289.00	16,173.67	9,856.70	48.08	61.54	-110.11	-1,695.61	-1,532.46	4,466.71	4,353.69	113.02	39.521	
18,000.00	8,289.00	15,969.30	9,859.38	48.14	60.31	-110.13	-1,491.31	-1,536.30	4,468.27	4,356.10	112.17	39.835	
18,100.00	8,289.00	15,887.95	9,860.12	48.21	59.82	-110.14	-1,409.97	-1,537.30	4,469.33	4,357.40	111.93	39.930	
18,200.00	8,289.00	15,710.56	9,859.93	48.29	58.77	-110.14	-1,232.59	-1,538.12	4,468.98	4,357.75	111.23	40.178	
18,254.51	8,289.00	15,676.00	9,859.69	48.34	58.57	-110.13	-1,198.03	-1,538.28	4,468.86	4,357.70	111.16	40.202	
18,300.00	8,289.00	15,643.56	9,859.51	48.39	58.38	-110.13	-1,165.59	-1,538.53	4,468.92	4,357.84	111.08	40.230	
18,400.00	8,289.00	15,432.46	9,859.65	48.50	57.15	-110.14	-954.51	-1,538.77	4,469.38	4,359.12	110.25	40.538	
18,500.00	8,289.00	15,329.44	9,859.23	48.63	56.56	-110.14	-851.53	-1,536.27	4,466.53	4,356.56	109.97	40.616	
18,600.00	8,289.00	15,275.97	9,859.22	48.76	56.25	-110.15	-798.06	-1,535.59	4,464.86	4,354.92	109.94	40.613	
18,700.00	8,289.00	15,207.00	9,859.41	48.92	55.86	-110.15	-729.09	-1,535.17	4,463.98	4,354.14	109.84	40.643	
18,800.00	8,289.00	15,113.00	9,860.01	49.08	55.33	-110.16	-635.10	-1,534.91	4,463.52	4,353.89	109.63	40.715	
18,817.42	8,289.00	15,113.00	9,860.01	49.11	55.33	-110.16	-635.10	-1,534.91	4,463.49	4,353.82	109.67	40.701	
18,900.00	8,289.00	15,072.22	9,860.26	49.26	55.10	-110.17	-594.32	-1,535.13	4,463.80	4,354.14	109.66	40.706	
19,000.00	8,289.00	14,993.22	9,860.31	49.46	54.66	-110.16	-515.34	-1,536.85	4,465.36	4,355.83	109.53	40.770	
19,100.00	8,289.00	14,812.53	9,860.58	50.02	53.66	-110.16	-334.66	-1,538.75	4,466.09	4,357.29	108.80	41.048	
19,101.33	8,289.00	14,811.19	9,860.58	50.05	53.66	-110.16	-333.33	-1,538.75	4,466.08	4,357.28	108.80	41.049	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	159.76	-332.44	122.56	354.31				
100.00	100.00	96.35	96.34	0.28	0.16	159.95	-333.17	121.61	354.68	354.25	0.43	825.926	
200.00	200.00	194.52	194.45	0.63	0.42	160.47	-335.27	118.94	355.77	354.72	1.05	339.306	
300.00	300.00	294.87	294.69	0.99	0.78	161.18	-337.87	115.17	356.98	355.21	1.77	201.475	
400.00	400.00	394.27	393.96	1.35	1.14	161.97	-340.65	110.89	358.27	355.78	2.49	143.689	
500.00	500.00	493.53	493.09	1.71	1.51	162.75	-343.59	106.68	359.82	356.61	3.21	111.942	
600.00	600.00	592.65	592.09	2.07	1.87	163.49	-346.62	102.72	361.59	357.66	3.93	91.905	
700.00	700.00	692.37	691.67	2.43	2.24	164.25	-349.85	98.65	363.57	358.91	4.66	78.089	
800.00	800.00	792.21	791.46	2.79	2.59	164.65	-352.49	96.74	365.60	360.23	5.37	68.092	
900.00	900.00	892.79	892.02	3.14	2.94	164.66	-354.45	97.25	367.61	361.54	6.07	60.518	
1,000.00	1,000.00	993.30	992.51	3.50	3.29	164.59	-356.10	98.14	369.43	362.65	6.78	54.504	
1,100.00	1,100.00	1,094.85	1,094.04	3.86	3.64	164.54	-357.52	98.91	370.99	363.50	7.49	49.545	
1,200.00	1,200.00	1,195.11	1,194.29	4.22	3.98	164.45	-358.60	99.79	372.25	364.06	8.19	45.435	
1,300.00	1,300.00	1,293.51	1,292.68	4.58	4.33	164.37	-359.90	100.72	373.79	364.89	8.89	42.028	
1,400.00	1,400.00	1,394.19	1,393.34	4.94	4.68	164.26	-361.28	101.83	375.40	365.80	9.60	39.086	
1,500.00	1,500.00	1,495.10	1,494.24	5.29	5.03	164.17	-362.45	102.75	376.77	366.45	10.32	36.519	
1,600.00	1,600.00	1,595.56	1,594.69	5.65	5.39	164.12	-363.51	103.44	377.97	366.94	11.03	34.267	
1,700.00	1,700.00	1,696.22	1,695.35	6.01	5.75	164.10	-364.51	103.85	379.04	367.29	11.75	32.270	
1,800.00	1,800.00	1,797.30	1,796.43	6.37	6.11	164.11	-365.35	103.98	379.87	367.40	12.46	30.476	
1,900.00	1,899.98	1,897.95	1,897.07	6.72	6.47	59.61	-365.87	104.20	379.54	366.37	13.17	28.821	
2,000.00	1,999.84	1,997.83	1,996.95	7.06	6.81	60.20	-366.11	105.21	377.41	363.55	13.85	27.241	
2,100.00	2,099.45	2,093.38	2,092.47	7.40	7.14	61.03	-366.37	107.50	374.01	359.48	14.53	25.748	
2,200.00	2,198.70	2,190.06	2,189.10	7.74	7.48	62.33	-367.78	110.32	370.30	355.09	15.20	24.354	
2,300.00	2,297.47	2,287.00	2,285.93	8.09	7.82	63.96	-369.44	114.41	365.75	349.86	15.89	23.021	
2,400.00	2,395.62	2,390.41	2,389.23	8.44	8.18	66.22	-371.13	119.10	360.06	343.46	16.60	21.690	
2,491.84	2,485.13	2,484.97	2,483.75	8.76	8.51	69.15	-371.52	121.43	352.78	335.53	17.25	20.449	
2,500.00	2,493.06	2,493.27	2,492.05	8.79	8.54	69.44	-371.51	121.54	352.08	334.77	17.31	20.340	
2,600.00	2,590.16	2,591.11	2,589.87	9.14	8.88	72.82	-371.27	123.20	344.03	326.03	18.00	19.109	
2,700.00	2,687.25	2,687.56	2,686.30	9.50	9.22	76.22	-371.10	125.32	337.33	318.63	18.70	18.040	
2,800.00	2,784.35	2,785.46	2,784.18	9.86	9.56	79.81	-371.07	127.36	332.11	312.70	19.40	17.115	
2,900.00	2,881.45	2,883.05	2,881.75	10.23	9.90	83.46	-370.98	129.50	328.19	308.08	20.11	16.318	
3,000.00	2,978.55	2,981.32	2,979.99	10.60	10.25	87.19	-370.80	131.77	325.59	304.76	20.83	15.634	
3,100.00	3,075.65	3,078.56	3,077.20	10.96	10.59	90.93	-370.58	134.01	324.40	302.86	21.54	15.062	
3,129.33	3,104.13	3,107.25	3,105.89	11.07	10.69	92.04	-370.52	134.66	324.34	302.59	21.75	14.914	CC
3,200.00	3,172.74	3,176.35	3,174.97	11.34	10.93	94.72	-370.33	136.13	324.70	302.44	22.25	14.591	ES
3,300.00	3,269.84	3,274.34	3,272.93	11.71	11.27	98.46	-370.05	138.48	326.35	303.38	22.97	14.206	
3,400.00	3,366.94	3,371.55	3,370.11	12.08	11.62	102.08	-369.90	141.01	329.46	305.77	23.69	13.907	
3,500.00	3,464.04	3,468.86	3,467.39	12.46	11.96	105.66	-369.73	143.34	334.01	309.60	24.41	13.684	
3,600.00	3,561.14	3,565.77	3,564.28	12.83	12.30	109.16	-369.59	145.32	340.11	314.99	25.12	13.537	
3,700.00	3,658.24	3,663.62	3,662.11	13.21	12.65	112.58	-369.38	147.29	347.47	321.63	25.85	13.444	
3,800.00	3,755.33	3,760.14	3,758.61	13.59	12.99	115.80	-369.26	149.16	356.17	329.61	26.56	13.410	
3,900.00	3,852.43	3,856.72	3,855.18	13.97	13.33	118.88	-369.33	150.74	366.33	339.06	27.28	13.431	
4,000.00	3,949.53	3,954.12	3,952.56	14.35	13.68	121.79	-369.60	152.48	377.58	349.59	28.00	13.487	
4,100.00	4,046.63	4,050.86	4,049.29	14.73	14.03	124.54	-369.80	153.92	389.95	361.23	28.71	13.581	
4,200.00	4,143.73	4,147.96	4,146.38	15.11	14.37	127.12	-370.14	155.35	403.28	373.85	29.43	13.703	
4,300.00	4,240.82	4,244.45	4,242.86	15.50	14.72	129.50	-370.64	156.73	417.52	387.38	30.15	13.850	
4,400.00	4,337.92	4,340.89	4,339.29	15.88	15.06	131.71	-371.42	157.95	432.75	401.89	30.86	14.023	
4,500.00	4,435.02	4,438.13	4,436.52	16.27	15.41	133.81	-372.12	159.01	448.70	417.12	31.58	14.208	
4,600.00	4,532.12	4,535.37	4,533.75	16.65	15.76	135.76	-372.89	160.09	465.23	432.93	32.30	14.402	
4,700.00	4,629.22	4,632.47	4,630.85	17.04	16.11	137.57	-373.66	161.10	482.31	449.29	33.02	14.605	
4,800.00	4,726.31	4,728.82	4,727.19	17.42	16.45	139.26	-374.42	162.00	499.94	466.20	33.74	14.818	
4,900.00	4,823.41	4,824.75	4,823.11	17.81	16.80	140.83	-375.28	162.65	518.26	483.80	34.45	15.043	

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 3H
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 3H	**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
5,000.00	4,920.51	4,921.38	4,919.74	18.20	17.14	142.29	-376.31	163.15	537.13	501.96	35.17	15.273	
5,100.00	5,017.61	5,018.73	5,017.08	18.58	17.49	143.67	-377.31	163.60	556.38	520.49	35.89	15.502	
5,200.00	5,114.71	5,117.52	5,115.86	18.97	17.84	144.97	-378.39	164.20	575.81	539.19	36.62	15.722	
5,300.00	5,211.80	5,214.98	5,213.31	19.36	18.19	146.16	-379.45	165.03	595.27	557.92	37.35	15.938	
5,400.00	5,308.90	5,313.02	5,311.34	19.75	18.54	147.27	-380.64	165.88	614.99	576.91	38.08	16.150	
5,500.00	5,406.00	5,409.62	5,407.92	20.14	18.89	148.27	-382.03	166.86	634.84	596.04	38.80	16.362	
5,600.00	5,503.10	5,504.00	5,502.29	20.53	19.22	149.19	-383.48	167.54	655.18	615.67	39.51	16.585	
5,700.00	5,600.20	5,599.16	5,597.43	20.91	19.56	150.07	-384.99	167.80	676.10	635.89	40.21	16.813	
5,800.00	5,697.30	5,695.90	5,694.16	21.30	19.90	150.90	-386.70	167.92	697.37	656.43	40.93	17.037	
5,900.00	5,794.39	5,792.47	5,790.71	21.69	20.25	151.68	-388.41	168.00	718.81	677.15	41.65	17.257	
6,000.00	5,891.49	5,887.17	5,885.40	22.09	20.58	152.40	-390.18	167.90	740.56	698.21	42.36	17.484	
6,100.00	5,988.59	5,984.15	5,982.36	22.48	20.92	153.08	-392.24	167.61	762.66	719.59	43.08	17.704	
6,200.00	6,085.69	6,084.14	6,082.33	22.87	21.28	153.74	-394.28	167.48	784.68	740.86	43.82	17.905	
6,300.00	6,182.79	6,183.09	6,181.27	23.26	21.63	154.40	-395.68	167.58	806.47	761.91	44.56	18.098	
6,400.00	6,279.88	6,279.30	6,277.47	23.65	21.97	155.02	-396.87	167.68	828.31	783.03	45.28	18.293	
6,500.00	6,376.98	6,377.79	6,375.95	24.04	22.32	155.63	-398.08	167.78	850.25	804.23	46.02	18.477	
6,600.00	6,474.08	6,486.44	6,484.59	24.43	22.70	156.33	-398.24	168.56	871.52	824.70	46.82	18.616	
6,700.00	6,571.18	6,587.81	6,585.95	24.82	23.05	157.03	-397.06	170.00	892.05	844.49	47.56	18.757	
6,800.00	6,668.28	6,685.57	6,683.68	25.22	23.39	157.70	-395.46	171.62	912.39	864.11	48.28	18.899	
6,900.00	6,765.37	6,778.23	6,776.32	25.61	23.70	158.33	-393.66	172.81	933.19	884.23	48.96	19.060	
7,000.00	6,862.47	6,871.15	6,869.23	26.00	24.02	158.91	-392.37	173.79	954.37	904.73	49.64	19.224	
7,100.00	6,959.57	6,949.00	6,947.07	26.39	24.28	159.36	-391.67	173.61	976.95	926.73	50.22	19.455	
7,200.00	7,056.67	7,038.87	7,036.92	26.78	24.58	159.83	-391.34	172.24	1,000.90	950.03	50.87	19.677	
7,300.00	7,153.77	7,144.48	7,142.53	27.18	24.94	160.36	-391.01	170.68	1,024.87	973.23	51.64	19.847	
7,400.00	7,250.86	7,239.87	7,237.90	27.57	25.25	160.83	-390.30	169.63	1,048.52	996.19	52.33	20.036	
7,500.00	7,347.96	7,328.77	7,326.79	27.96	25.55	161.26	-389.60	168.23	1,072.69	1,019.71	52.98	20.248	
7,600.00	7,445.06	7,425.97	7,423.97	28.36	25.88	161.71	-388.79	166.39	1,097.23	1,043.55	53.69	20.438	
7,700.00	7,542.16	7,516.77	7,514.75	28.75	26.18	162.13	-387.88	164.51	1,122.00	1,067.66	54.35	20.645	
7,800.00	7,639.26	7,602.89	7,600.83	29.14	26.47	162.50	-386.98	162.05	1,147.58	1,092.61	54.97	20.877	
7,900.00	7,736.36	7,690.89	7,688.76	29.54	26.77	162.88	-386.04	158.83	1,173.99	1,118.39	55.61	21.113	
7,902.86	7,739.13	7,693.40	7,691.27	29.55	26.77	162.89	-386.02	158.73	1,174.76	1,119.13	55.62	21.120	
7,950.00	7,784.76	7,736.87	7,734.70	29.73	26.92	144.78	-385.63	156.94	1,187.23	1,131.28	55.94	21.223	
8,000.00	7,832.63	7,783.28	7,781.07	29.93	27.08	130.35	-385.48	155.00	1,200.03	1,143.75	56.28	21.323	
8,050.00	7,879.58	7,836.41	7,834.16	30.12	27.26	120.39	-385.57	152.86	1,212.30	1,155.63	56.68	21.390	
8,100.00	7,925.27	7,892.22	7,889.94	30.31	27.45	113.63	-385.74	151.05	1,223.78	1,166.68	57.09	21.435	
8,150.00	7,969.35	7,950.57	7,948.27	30.49	27.65	109.09	-385.93	149.75	1,234.47	1,176.94	57.53	21.459	
8,200.00	8,011.47	8,005.32	8,003.02	30.67	27.83	105.97	-386.06	149.16	1,244.46	1,186.53	57.93	21.482	
8,250.00	8,051.32	8,053.80	8,051.50	30.83	28.00	103.73	-386.16	149.03	1,254.08	1,195.79	58.29	21.515	
8,300.00	8,088.60	8,096.49	8,094.18	30.99	28.15	102.07	-386.24	149.18	1,263.59	1,204.99	58.61	21.561	
8,350.00	8,123.02	8,130.89	8,128.58	31.14	28.28	100.67	-386.31	149.35	1,273.36	1,214.50	58.87	21.632	
8,400.00	8,154.32	8,162.20	8,159.90	31.28	28.39	99.51	-386.39	149.51	1,283.61	1,224.51	59.10	21.718	
8,450.00	8,182.27	8,189.43	8,187.12	31.42	28.48	98.47	-386.46	149.63	1,294.48	1,235.17	59.31	21.826	
8,500.00	8,206.64	8,212.21	8,209.91	31.54	28.56	97.42	-386.52	149.71	1,306.11	1,246.63	59.48	21.958	
8,550.00	8,227.26	8,231.52	8,229.21	31.66	28.63	96.34	-386.58	149.75	1,318.61	1,258.98	59.63	22.113	
8,600.00	8,243.96	8,247.20	8,244.90	31.78	28.69	95.18	-386.63	149.77	1,332.00	1,272.26	59.75	22.294	
8,621.67	8,249.95	8,252.84	8,250.54	31.83	28.71	94.65	-386.65	149.77	1,338.10	1,278.31	59.79	22.380	
8,700.00	8,267.63	8,269.54	8,267.24	32.00	28.77	94.08	-386.71	149.76	1,362.58	1,302.66	59.91	22.743	
8,800.00	8,282.55	8,283.56	8,281.25	32.23	28.82	92.69	-386.76	149.74	1,399.86	1,339.86	60.01	23.328	
8,900.00	8,288.79	8,289.63	8,287.33	32.46	28.84	90.55	-386.79	149.73	1,443.40	1,383.37	60.04	24.042	
8,921.67	8,289.00	8,289.90	8,287.60	32.51	28.84	89.98	-386.79	149.73	1,453.59	1,393.56	60.03	24.213	
9,000.00	8,289.00	8,290.21	8,287.90	32.69	28.84	90.00	-386.79	149.73	1,492.47	1,432.45	60.02	24.868	
9,100.00	8,289.00	8,290.60	8,288.30	32.94	28.84	90.01	-386.79	149.73	1,546.45	1,486.46	59.99	25.778	

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 3H
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 3H	**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
9,200.00	8,289.00	8,291.00	8,288.69	33.20	28.84	90.03	-386.79	149.73	1,604.86	1,544.89	59.96	26.764	
9,300.00	8,289.00	8,291.40	8,289.09	33.48	28.84	90.05	-386.80	149.73	1,667.22	1,607.28	59.93	27.817	
9,400.00	8,289.00	8,291.80	8,289.50	33.77	28.84	90.07	-386.80	149.73	1,733.11	1,673.20	59.91	28.930	
9,500.00	8,289.00	8,292.20	8,289.90	34.07	28.85	90.09	-386.80	149.72	1,802.14	1,742.26	59.88	30.096	
9,600.00	8,289.00	8,292.61	8,290.31	34.38	28.85	90.10	-386.80	149.72	1,873.97	1,814.11	59.85	31.309	
9,700.00	8,289.00	8,293.02	8,290.72	34.70	28.85	90.12	-386.80	149.72	1,948.28	1,888.45	59.83	32.562	
9,800.00	8,289.00	8,293.44	8,291.13	35.04	28.85	90.14	-386.81	149.72	2,024.81	1,965.00	59.81	33.852	
9,900.00	8,289.00	8,293.85	8,291.55	35.39	28.85	90.16	-386.81	149.72	2,103.31	2,043.51	59.80	35.175	
10,000.00	8,289.00	8,294.27	8,291.97	35.75	28.85	90.18	-386.81	149.72	2,183.56	2,123.78	59.78	36.525	
10,100.00	8,289.00	8,294.69	8,292.39	36.12	28.85	90.20	-386.81	149.72	2,265.39	2,205.62	59.77	37.901	
10,200.00	8,289.00	8,295.12	8,292.81	36.51	28.86	90.22	-386.81	149.72	2,348.63	2,288.86	59.76	39.298	
10,300.00	8,289.00	8,295.55	8,293.24	36.90	28.86	90.24	-386.81	149.71	2,433.12	2,373.36	59.76	40.716	
10,400.00	8,289.00	8,295.98	8,293.67	37.31	28.86	90.25	-386.82	149.71	2,518.76	2,459.00	59.76	42.150	
10,500.00	8,289.00	8,296.41	8,294.11	37.72	28.86	90.27	-386.82	149.71	2,605.41	2,545.66	59.76	43.600	
10,600.00	8,289.00	8,296.85	8,294.55	38.15	28.86	90.29	-386.82	149.71	2,692.99	2,633.23	59.76	45.063	
10,700.00	8,289.00	8,297.29	8,294.99	38.58	28.86	90.31	-386.82	149.71	2,781.41	2,721.65	59.77	46.537	
10,800.00	8,289.00	12,455.00	10,757.23	39.03	47.99	152.14	-2,384.84	131.53	2,851.08	2,784.92	66.16	43.092	
10,900.00	8,289.00	12,455.00	10,757.23	39.48	47.99	152.14	-2,384.84	131.53	2,872.83	2,806.04	66.79	43.011	
11,000.00	8,289.00	12,455.00	10,757.23	39.94	47.99	152.14	-2,384.84	131.53	2,897.86	2,830.45	67.42	42.984	
11,100.00	8,289.00	12,455.00	10,757.23	40.41	47.99	152.14	-2,384.84	131.53	2,926.10	2,858.07	68.03	43.012	
11,200.00	8,289.00	12,455.00	10,757.23	40.89	47.99	152.14	-2,384.84	131.53	2,957.45	2,888.82	68.63	43.094	
11,300.00	8,289.00	12,455.00	10,757.23	41.38	47.99	152.14	-2,384.84	131.53	2,991.82	2,922.61	69.21	43.228	
11,400.00	8,289.00	12,455.00	10,757.23	41.88	47.99	152.14	-2,384.84	131.53	3,029.10	2,959.33	69.77	43.414	
11,500.00	8,289.00	12,455.00	10,757.23	42.38	47.99	152.14	-2,384.84	131.53	3,069.19	2,998.87	70.32	43.648	
11,600.00	8,289.00	12,455.00	10,757.23	42.89	47.99	152.14	-2,384.84	131.53	3,111.97	3,041.13	70.84	43.931	
11,700.00	8,289.00	12,455.00	10,757.23	43.41	47.99	152.14	-2,384.84	131.53	3,157.34	3,086.01	71.34	44.259	
11,800.00	8,289.00	12,455.00	10,757.23	43.93	47.99	152.14	-2,384.84	131.53	3,205.20	3,133.38	71.81	44.632	
11,900.00	8,289.00	12,455.00	10,757.23	44.46	47.99	152.14	-2,384.84	131.53	3,255.42	3,183.15	72.27	45.047	
12,000.00	8,289.00	12,455.00	10,757.23	45.00	47.99	152.14	-2,384.84	131.53	3,307.90	3,235.20	72.70	45.502	
12,100.00	8,289.00	12,455.00	10,757.23	45.55	47.99	152.14	-2,384.84	131.53	3,362.54	3,289.43	73.11	45.996	
12,200.00	8,289.00	12,455.00	10,757.23	46.10	47.99	152.14	-2,384.84	131.53	3,419.23	3,345.74	73.49	46.526	
12,300.00	8,289.00	12,455.00	10,757.23	46.65	47.99	152.14	-2,384.84	131.53	3,477.87	3,404.02	73.85	47.091	
12,400.00	8,289.00	12,455.00	10,757.23	47.21	47.99	152.14	-2,384.84	131.53	3,538.37	3,464.17	74.20	47.689	
12,500.00	8,289.00	12,455.00	10,757.23	47.78	47.99	152.14	-2,384.84	131.53	3,600.63	3,526.11	74.52	48.318	
12,600.00	8,289.00	12,455.00	10,757.23	48.35	47.99	152.14	-2,384.84	131.53	3,664.56	3,589.73	74.82	48.976	
12,688.51	8,289.00	12,455.00	10,757.23	48.86	47.99	152.14	-2,384.84	131.53	3,722.46	3,647.38	75.08	49.582	
12,700.00	8,289.00	12,455.00	10,757.23	48.93	47.99	152.99	-2,384.84	131.53	3,730.11	3,655.00	75.11	49.662	
12,750.00	8,289.00	12,455.00	10,757.23	49.23	47.99	157.02	-2,384.84	131.53	3,764.41	3,689.14	75.26	50.018	
12,800.00	8,289.00	12,455.00	10,757.23	49.53	47.99	161.53	-2,384.84	131.53	3,800.18	3,724.76	75.43	50.383	
12,850.00	8,289.00	12,455.00	10,757.23	49.84	47.99	166.50	-2,384.84	131.53	3,837.16	3,761.56	75.61	50.753	
12,900.00	8,289.00	12,455.00	10,757.23	50.15	47.99	171.88	-2,384.84	131.53	3,875.06	3,799.26	75.80	51.125	
12,950.00	8,289.00	12,455.00	10,757.23	50.47	47.99	177.55	-2,384.84	131.53	3,913.60	3,837.60	76.00	51.496	
13,000.00	8,289.00	12,455.00	10,757.23	50.79	47.99	-176.62	-2,384.84	131.53	3,952.51	3,876.29	76.21	51.862	
13,050.00	8,289.00	12,455.00	10,757.23	51.10	47.99	-170.78	-2,384.84	131.53	3,991.51	3,915.07	76.44	52.219	
13,100.00	8,289.00	12,455.00	10,757.23	51.40	47.99	-165.10	-2,384.84	131.53	4,030.34	3,953.67	76.67	52.565	
13,150.00	8,289.00	12,455.00	10,757.23	51.70	47.99	-159.72	-2,384.84	131.53	4,068.76	3,991.84	76.92	52.897	
13,200.00	8,289.00	12,455.00	10,757.23	51.99	47.99	-154.72	-2,384.84	131.53	4,106.51	4,029.34	77.18	53.210	
13,250.00	8,289.00	12,455.00	10,757.23	52.26	47.99	-150.16	-2,384.84	131.53	4,143.37	4,065.93	77.44	53.503	
13,300.00	8,289.00	12,455.00	10,757.23	52.52	47.99	-146.08	-2,384.84	131.53	4,179.11	4,101.39	77.72	53.773	
13,350.00	8,289.00	12,455.00	10,757.23	52.77	47.99	-142.45	-2,384.84	131.53	4,213.51	4,135.51	78.00	54.016	
13,400.00	8,289.00	12,455.00	10,757.23	53.00	47.99	-139.26	-2,384.84	131.53	4,246.40	4,168.09	78.30	54.231	
13,450.00	8,289.00	12,455.00	10,757.23	53.20	47.99	-136.48	-2,384.84	131.53	4,277.57	4,198.96	78.61	54.416	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,500.00	8,289.00	12,455.00	10,757.23	53.39	47.99	-134.06	-2,384.84	131.53	4,306.86	4,227.93	78.93	54.568	
13,550.00	8,289.00	12,455.00	10,757.23	53.55	47.99	-131.97	-2,384.84	131.53	4,334.10	4,254.85	79.25	54.686	
13,600.00	8,289.00	12,455.00	10,757.23	53.69	47.99	-130.17	-2,384.84	131.53	4,359.17	4,279.58	79.59	54.769	
13,650.00	8,289.00	12,455.00	10,757.23	53.80	47.99	-128.65	-2,384.84	131.53	4,381.92	4,301.98	79.94	54.815	
13,700.00	8,289.00	12,455.00	10,757.23	53.89	47.99	-127.36	-2,384.84	131.53	4,402.24	4,321.94	80.30	54.823	
13,750.00	8,289.00	12,455.00	10,757.23	53.96	47.99	-126.28	-2,384.84	131.53	4,420.03	4,339.36	80.67	54.794	
13,800.00	8,289.00	12,455.00	10,757.23	54.00	47.99	-125.40	-2,384.84	131.53	4,435.19	4,354.15	81.04	54.727	
13,850.00	8,289.00	12,455.00	10,757.23	54.02	47.99	-124.71	-2,384.84	131.53	4,447.66	4,366.23	81.43	54.622	
13,900.00	8,289.00	12,455.00	10,757.23	54.01	47.99	-124.18	-2,384.84	131.53	4,457.36	4,375.54	81.82	54.479	
13,950.00	8,289.00	12,455.00	10,757.23	53.99	47.99	-123.81	-2,384.84	131.53	4,464.26	4,382.04	82.22	54.298	
14,000.00	8,289.00	12,455.00	10,757.23	53.94	47.99	-123.60	-2,384.84	131.53	4,468.32	4,385.70	82.62	54.082	
14,050.00	8,289.00	12,455.00	10,757.23	53.88	47.99	-123.54	-2,384.84	131.53	4,469.52	4,386.49	83.03	53.831	
14,100.00	8,289.00	12,455.00	10,757.23	53.80	47.99	-123.62	-2,384.84	131.53	4,467.86	4,384.42	83.44	53.545	
14,150.00	8,289.00	12,455.00	10,757.23	53.70	47.99	-123.86	-2,384.84	131.53	4,463.33	4,379.48	83.85	53.227	
14,200.00	8,289.00	12,455.00	10,757.23	53.59	47.99	-124.25	-2,384.84	131.53	4,455.98	4,371.71	84.27	52.878	
14,250.00	8,289.00	12,455.00	10,757.23	53.47	47.99	-124.81	-2,384.84	131.53	4,445.82	4,361.13	84.68	52.500	
14,300.00	8,289.00	12,455.00	10,757.23	53.33	47.99	-125.53	-2,384.84	131.53	4,432.91	4,347.81	85.09	52.094	
14,350.00	8,289.00	12,455.00	10,757.23	53.20	47.99	-126.44	-2,384.84	131.53	4,417.31	4,331.81	85.50	51.663	
14,400.00	8,289.00	12,455.00	10,757.23	53.05	47.99	-127.55	-2,384.84	131.53	4,399.11	4,313.20	85.91	51.207	
14,450.00	8,289.00	12,455.00	10,757.23	52.91	47.99	-128.88	-2,384.84	131.53	4,378.39	4,292.08	86.31	50.730	
14,500.00	8,289.00	12,455.00	10,757.23	52.76	47.99	-130.45	-2,384.84	131.53	4,355.25	4,268.55	86.70	50.232	
14,530.51	8,289.00	12,455.00	10,757.23	52.67	47.99	-131.54	-2,384.84	131.53	4,340.00	4,253.06	86.94	49.920	
14,600.00	8,289.00	12,455.00	10,757.23	52.46	47.99	-132.32	-2,384.84	131.53	4,303.97	4,216.49	87.47	49.202	
14,700.00	8,289.00	12,455.00	10,757.23	52.18	47.99	-133.52	-2,384.84	131.53	4,250.94	4,162.69	88.25	48.171	
14,762.01	8,289.00	12,455.00	10,757.23	52.01	47.99	-134.29	-2,384.84	131.53	4,217.39	4,128.67	88.73	47.533	
14,800.00	8,289.00	12,455.00	10,757.23	51.90	47.99	-134.29	-2,384.84	131.53	4,196.81	4,107.79	89.02	47.144	
14,900.00	8,289.00	12,455.00	10,757.23	51.64	47.99	-134.29	-2,384.84	131.53	4,143.81	4,054.00	89.81	46.141	
15,000.00	8,289.00	12,455.00	10,757.23	51.38	47.99	-134.29	-2,384.84	131.53	4,092.56	4,001.95	90.61	45.168	
15,100.00	8,289.00	12,455.00	10,757.23	51.14	47.99	-134.29	-2,384.84	131.53	4,043.14	3,951.72	91.42	44.225	
15,200.00	8,289.00	12,455.00	10,757.23	50.90	47.99	-134.29	-2,384.84	131.53	3,995.61	3,903.36	92.25	43.315	
15,300.00	8,289.00	12,455.00	10,757.23	50.66	47.99	-134.29	-2,384.84	131.53	3,950.04	3,856.96	93.08	42.437	
15,400.00	8,289.00	12,455.00	10,757.23	50.44	47.99	-134.29	-2,384.84	131.53	3,906.50	3,812.58	93.92	41.594	
15,500.00	8,289.00	12,455.00	10,757.23	50.23	47.99	-134.29	-2,384.84	131.53	3,865.06	3,770.30	94.76	40.786	
15,600.00	8,289.00	12,455.00	10,757.23	50.02	47.99	-134.29	-2,384.84	131.53	3,825.78	3,730.17	95.61	40.015	
15,700.00	8,289.00	12,455.00	10,757.23	49.82	47.99	-134.29	-2,384.84	131.53	3,788.74	3,692.28	96.45	39.281	
15,800.00	8,289.00	12,455.00	10,757.23	49.64	47.99	-134.29	-2,384.84	131.53	3,753.99	3,656.70	97.29	38.585	
15,900.00	8,289.00	12,455.00	10,757.23	49.46	47.99	-134.29	-2,384.84	131.53	3,721.61	3,623.48	98.12	37.927	
16,000.00	8,289.00	12,455.00	10,757.23	49.29	47.99	-134.29	-2,384.84	131.53	3,691.65	3,592.71	98.95	37.310	
16,100.00	8,289.00	12,455.00	10,757.23	49.13	47.99	-134.29	-2,384.84	131.53	3,664.18	3,564.43	99.75	36.733	
16,200.00	8,289.00	12,455.00	10,757.23	48.98	47.99	-134.29	-2,384.84	131.53	3,639.25	3,538.71	100.54	36.196	
16,300.00	8,289.00	12,455.00	10,757.23	48.84	47.99	-134.29	-2,384.84	131.53	3,616.91	3,515.60	101.31	35.701	
16,400.00	8,289.00	12,455.00	10,757.23	48.71	47.99	-134.29	-2,384.84	131.53	3,597.22	3,495.16	102.06	35.247	
16,500.00	8,289.00	8,294.07	8,291.77	48.59	28.85	-90.09	-386.81	149.72	3,579.95	3,515.01	64.95	55.123	
16,600.00	8,289.00	8,293.69	8,291.38	48.48	28.85	-90.08	-386.81	149.72	3,509.19	3,443.94	65.25	53.784	
16,700.00	8,289.00	8,293.30	8,291.00	48.38	28.85	-90.07	-386.80	149.72	3,439.88	3,374.31	65.57	52.462	
16,800.00	8,289.00	8,292.92	8,290.62	48.29	28.85	-90.06	-386.80	149.72	3,372.10	3,306.19	65.92	51.157	
16,900.00	8,289.00	8,292.54	8,290.24	48.21	28.85	-90.05	-386.80	149.72	3,305.97	3,239.68	66.29	49.872	
17,000.00	8,289.00	8,292.16	8,289.86	48.15	28.85	-90.04	-386.80	149.72	3,241.57	3,174.88	66.69	48.609	
17,100.00	8,289.00	8,291.79	8,289.48	48.09	28.84	-90.03	-386.80	149.73	3,179.01	3,111.90	67.11	47.370	
17,200.00	8,289.00	8,291.42	8,289.11	48.05	28.84	-90.03	-386.80	149.73	3,118.40	3,050.84	67.56	46.159	
17,300.00	8,289.00	8,291.05	8,288.74	48.01	28.84	-90.02	-386.80	149.73	3,059.86	2,991.83	68.03	44.978	
17,400.00	8,289.00	8,290.68	8,288.37	47.99	28.84	-90.01	-386.79	149.73	3,003.51	2,934.98	68.53	43.829	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,500.00	8,289.00	8,290.31	8,288.01	47.99	28.84	-90.00	-386.79	149.73	2,949.48	2,880.43	69.05	42.716	
17,600.00	8,289.00	8,289.95	8,287.65	47.99	28.84	-89.99	-386.79	149.73	2,897.89	2,828.30	69.59	41.641	
17,700.00	8,289.00	8,289.59	8,287.29	48.01	28.84	-89.98	-386.79	149.73	2,848.88	2,778.72	70.16	40.608	
17,800.00	8,289.00	8,289.23	8,286.93	48.04	28.84	-89.98	-386.79	149.73	2,802.58	2,731.84	70.74	39.620	
17,900.00	8,289.00	8,288.88	8,286.57	48.08	28.83	-89.97	-386.79	149.73	2,759.12	2,687.79	71.33	38.680	
18,000.00	8,289.00	8,288.52	8,286.22	48.14	28.83	-89.96	-386.78	149.73	2,718.66	2,646.72	71.94	37.790	
18,100.00	8,289.00	8,288.17	8,285.87	48.21	28.83	-89.95	-386.78	149.73	2,681.31	2,608.75	72.56	36.955	
18,200.00	8,289.00	8,287.82	8,285.52	48.29	28.83	-89.94	-386.78	149.74	2,647.22	2,574.04	73.18	36.176	
18,300.00	8,289.00	8,287.47	8,285.17	48.39	28.83	-89.94	-386.78	149.74	2,616.50	2,542.71	73.80	35.456	
18,400.00	8,289.00	8,287.13	8,284.82	48.50	28.83	-89.93	-386.78	149.74	2,589.29	2,514.88	74.41	34.798	
18,500.00	8,289.00	8,286.79	8,284.48	48.63	28.83	-89.92	-386.78	149.74	2,565.69	2,490.68	75.01	34.204	
18,600.00	8,289.00	8,286.44	8,284.14	48.76	28.83	-89.91	-386.78	149.74	2,545.80	2,470.20	75.60	33.676	
18,700.00	8,289.00	8,286.11	8,283.80	48.92	28.82	-89.90	-386.77	149.74	2,529.71	2,453.55	76.16	33.215	
18,800.00	8,289.00	8,285.77	8,283.47	49.08	28.82	-89.90	-386.77	149.74	2,517.49	2,440.79	76.70	32.823	
18,900.00	8,289.00	8,285.43	8,283.13	49.26	28.82	-89.89	-386.77	149.74	2,509.20	2,431.99	77.20	32.501	
19,000.00	8,289.00	8,285.10	8,282.80	49.46	28.82	-89.88	-386.77	149.74	2,504.88	2,427.20	77.67	32.249	
19,058.35	8,289.00	8,284.91	8,282.61	49.59	28.82	-89.88	-386.77	149.74	2,504.20	2,426.35	77.85	32.167	
19,100.00	8,289.00	8,284.77	8,282.47	50.02	28.82	-89.87	-386.77	149.74	2,504.54	2,426.59	77.95	32.131	
19,101.33	8,289.00	8,284.77	8,282.46	50.05	28.82	-89.87	-386.77	149.74	2,504.57	2,426.61	77.95	32.130	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	159.76	-332.44	122.56	354.31				
100.00	100.00	96.35	96.34	0.28	0.16	159.95	-333.17	121.61	354.68	354.25	0.43	825.926	
200.00	200.00	194.52	194.45	0.63	0.42	160.47	-335.27	118.94	355.77	354.72	1.05	339.306	
300.00	300.00	294.87	294.69	0.99	0.78	161.18	-337.87	115.17	356.98	355.21	1.77	201.475	
400.00	400.00	394.27	393.96	1.35	1.14	161.97	-340.65	110.89	358.27	355.78	2.49	143.689	
500.00	500.00	493.53	493.09	1.71	1.51	162.75	-343.59	106.68	359.82	356.61	3.21	111.942	
600.00	600.00	592.65	592.09	2.07	1.87	163.49	-346.62	102.72	361.59	357.66	3.93	91.905	
700.00	700.00	692.37	691.67	2.43	2.24	164.25	-349.85	98.65	363.57	358.91	4.66	78.089	
800.00	800.00	792.21	791.46	2.79	2.59	164.65	-352.49	96.74	365.60	360.23	5.37	68.092	
900.00	900.00	892.79	892.02	3.14	2.94	164.66	-354.45	97.25	367.61	361.54	6.07	60.518	
1,000.00	1,000.00	993.30	992.51	3.50	3.29	164.59	-356.10	98.14	369.43	362.65	6.78	54.504	
1,100.00	1,100.00	1,094.85	1,094.04	3.86	3.64	164.54	-357.52	98.91	370.99	363.50	7.49	49.545	
1,200.00	1,200.00	1,195.11	1,194.29	4.22	3.98	164.45	-358.60	99.79	372.25	364.06	8.19	45.435	
1,300.00	1,300.00	1,293.51	1,292.68	4.58	4.33	164.37	-359.90	100.72	373.79	364.89	8.89	42.028	
1,400.00	1,400.00	1,394.19	1,393.34	4.94	4.68	164.26	-361.28	101.83	375.40	365.80	9.60	39.086	
1,500.00	1,500.00	1,495.10	1,494.24	5.29	5.03	164.17	-362.45	102.75	376.77	366.45	10.32	36.519	
1,600.00	1,600.00	1,595.56	1,594.69	5.65	5.39	164.12	-363.51	103.44	377.97	366.94	11.03	34.267	
1,700.00	1,700.00	1,696.22	1,695.35	6.01	5.75	164.10	-364.51	103.85	379.04	367.29	11.75	32.270	
1,800.00	1,800.00	1,797.30	1,796.43	6.37	6.11	164.11	-365.35	103.98	379.87	367.40	12.46	30.476	
1,900.00	1,899.98	1,897.95	1,897.07	6.72	6.47	59.61	-365.87	104.20	379.54	366.37	13.17	28.821	
2,000.00	1,999.84	1,997.83	1,996.95	7.06	6.81	60.20	-366.11	105.21	377.41	363.55	13.85	27.241	
2,100.00	2,099.45	2,093.38	2,092.47	7.40	7.14	61.03	-366.37	107.50	374.01	359.48	14.53	25.748	
2,200.00	2,198.70	2,190.06	2,189.10	7.74	7.48	62.33	-367.78	110.32	370.30	355.09	15.20	24.354	
2,300.00	2,297.47	2,287.00	2,285.93	8.09	7.82	63.96	-369.44	114.41	365.75	349.86	15.89	23.021	
2,400.00	2,395.62	2,390.41	2,389.23	8.44	8.18	66.22	-371.13	119.10	360.06	343.46	16.60	21.690	
2,491.84	2,485.13	2,484.97	2,483.75	8.76	8.51	69.15	-371.52	121.43	352.78	335.53	17.25	20.449	
2,500.00	2,493.06	2,493.27	2,492.05	8.79	8.54	69.44	-371.51	121.54	352.08	334.77	17.31	20.340	
2,600.00	2,590.16	2,591.11	2,589.87	9.14	8.88	72.82	-371.27	123.20	344.03	326.03	18.00	19.109	
2,700.00	2,687.25	2,687.56	2,686.30	9.50	9.22	76.22	-371.10	125.32	337.33	318.63	18.70	18.040	
2,800.00	2,784.35	2,785.46	2,784.18	9.86	9.56	79.81	-371.07	127.36	332.11	312.70	19.40	17.115	
2,900.00	2,881.45	2,883.05	2,881.75	10.23	9.90	83.46	-370.98	129.50	328.19	308.08	20.11	16.318	
3,000.00	2,978.55	2,981.32	2,979.99	10.60	10.25	87.19	-370.80	131.77	325.59	304.76	20.83	15.634	
3,100.00	3,075.65	3,078.56	3,077.20	10.96	10.59	90.93	-370.58	134.01	324.40	302.86	21.54	15.062	
3,129.33	3,104.13	3,107.25	3,105.89	11.07	10.69	92.04	-370.52	134.66	324.34	302.59	21.75	14.914	CC
3,200.00	3,172.74	3,176.35	3,174.97	11.34	10.93	94.72	-370.33	136.13	324.70	302.44	22.25	14.591	ES
3,300.00	3,269.84	3,274.34	3,272.93	11.71	11.27	98.46	-370.05	138.48	326.35	303.38	22.97	14.206	
3,400.00	3,366.94	3,371.55	3,370.11	12.08	11.62	102.08	-369.90	141.01	329.46	305.77	23.69	13.907	
3,500.00	3,464.04	3,468.86	3,467.39	12.46	11.96	105.66	-369.73	143.34	334.01	309.60	24.41	13.684	
3,600.00	3,561.14	3,565.77	3,564.28	12.83	12.30	109.16	-369.59	145.32	340.11	314.99	25.12	13.537	
3,700.00	3,658.24	3,663.62	3,662.11	13.21	12.65	112.58	-369.38	147.29	347.47	321.63	25.85	13.444	
3,800.00	3,755.33	3,760.14	3,758.61	13.59	12.99	115.80	-369.26	149.16	356.17	329.61	26.56	13.410	
3,900.00	3,852.43	3,856.72	3,855.18	13.97	13.33	118.88	-369.33	150.74	366.33	339.06	27.28	13.431	
4,000.00	3,949.53	3,954.12	3,952.56	14.35	13.68	121.79	-369.60	152.48	377.58	349.59	28.00	13.487	
4,100.00	4,046.63	4,050.86	4,049.29	14.73	14.03	124.54	-369.80	153.92	389.95	361.23	28.71	13.581	
4,200.00	4,143.73	4,147.96	4,146.38	15.11	14.37	127.12	-370.14	155.35	403.28	373.85	29.43	13.703	
4,300.00	4,240.82	4,244.45	4,242.86	15.50	14.72	129.50	-370.64	156.73	417.52	387.38	30.15	13.850	
4,400.00	4,337.92	4,340.89	4,339.29	15.88	15.06	131.71	-371.42	157.95	432.75	401.89	30.86	14.023	
4,500.00	4,435.02	4,438.13	4,436.52	16.27	15.41	133.81	-372.12	159.01	448.70	417.12	31.58	14.208	
4,600.00	4,532.12	4,535.37	4,533.75	16.65	15.76	135.76	-372.89	160.09	465.23	432.93	32.30	14.402	
4,700.00	4,629.22	4,632.47	4,630.85	17.04	16.11	137.57	-373.66	161.10	482.31	449.29	33.02	14.605	
4,800.00	4,726.31	4,728.82	4,727.19	17.42	16.45	139.26	-374.42	162.00	499.94	466.20	33.74	14.818	
4,900.00	4,823.41	4,824.75	4,823.11	17.81	16.80	140.83	-375.28	162.65	518.26	483.80	34.45	15.043	

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 3H
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 3H	**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
5,000.00	4,920.51	4,921.38	4,919.74	18.20	17.14	142.29	-376.31	163.15	537.13	501.96	35.17	15.273	
5,100.00	5,017.61	5,018.73	5,017.08	18.58	17.49	143.67	-377.31	163.60	556.38	520.49	35.89	15.502	
5,200.00	5,114.71	5,117.52	5,115.86	18.97	17.84	144.97	-378.39	164.20	575.81	539.19	36.62	15.722	
5,300.00	5,211.80	5,214.98	5,213.31	19.36	18.19	146.16	-379.45	165.03	595.27	557.92	37.35	15.938	
5,400.00	5,308.90	5,313.02	5,311.34	19.75	18.54	147.27	-380.64	165.88	614.99	576.91	38.08	16.150	
5,500.00	5,406.00	5,409.62	5,407.92	20.14	18.89	148.27	-382.03	166.86	634.84	596.04	38.80	16.362	
5,600.00	5,503.10	5,504.00	5,502.29	20.53	19.22	149.19	-383.48	167.54	655.18	615.67	39.51	16.585	
5,700.00	5,600.20	5,599.16	5,597.43	20.91	19.56	150.07	-384.99	167.80	676.10	635.89	40.21	16.813	
5,800.00	5,697.30	5,695.90	5,694.16	21.30	19.90	150.90	-386.70	167.92	697.37	656.43	40.93	17.037	
5,900.00	5,794.39	5,792.47	5,790.71	21.69	20.25	151.68	-388.41	168.00	718.81	677.15	41.65	17.257	
6,000.00	5,891.49	5,887.17	5,885.40	22.09	20.58	152.40	-390.18	167.90	740.56	698.21	42.36	17.484	
6,100.00	5,988.59	5,984.15	5,982.36	22.48	20.92	153.08	-392.24	167.61	762.66	719.59	43.08	17.704	
6,200.00	6,085.69	6,084.14	6,082.33	22.87	21.28	153.74	-394.28	167.48	784.68	740.86	43.82	17.905	
6,300.00	6,182.79	6,183.09	6,181.27	23.26	21.63	154.40	-395.68	167.58	806.47	761.91	44.56	18.098	
6,400.00	6,279.88	6,279.30	6,277.47	23.65	21.97	155.02	-396.87	167.68	828.31	783.03	45.28	18.293	
6,500.00	6,376.98	6,377.79	6,375.95	24.04	22.32	155.63	-398.08	167.78	850.25	804.23	46.02	18.477	
6,600.00	6,474.08	6,486.44	6,484.59	24.43	22.70	156.33	-398.24	168.56	871.52	824.70	46.82	18.616	
6,700.00	6,571.18	6,587.81	6,585.95	24.82	23.05	157.03	-397.06	170.00	892.05	844.49	47.56	18.757	
6,800.00	6,668.28	6,685.57	6,683.68	25.22	23.39	157.70	-395.46	171.62	912.39	864.11	48.28	18.899	
6,900.00	6,765.37	6,778.23	6,776.32	25.61	23.70	158.33	-393.66	172.81	933.19	884.23	48.96	19.060	
7,000.00	6,862.47	6,871.15	6,869.23	26.00	24.02	158.91	-392.37	173.79	954.37	904.73	49.64	19.224	
7,100.00	6,959.57	6,949.00	6,947.07	26.39	24.28	159.36	-391.67	173.61	976.95	926.73	50.22	19.455	
7,200.00	7,056.67	7,038.87	7,036.92	26.78	24.58	159.83	-391.34	172.24	1,000.90	950.03	50.87	19.677	
7,300.00	7,153.77	7,144.48	7,142.53	27.18	24.94	160.36	-391.01	170.68	1,024.87	973.23	51.64	19.847	
7,400.00	7,250.86	7,239.87	7,237.90	27.57	25.25	160.83	-390.30	169.63	1,048.52	996.19	52.33	20.036	
7,500.00	7,347.96	7,328.77	7,326.79	27.96	25.55	161.26	-389.60	168.23	1,072.69	1,019.71	52.98	20.248	
7,600.00	7,445.06	7,425.97	7,423.97	28.36	25.88	161.71	-388.79	166.39	1,097.23	1,043.55	53.69	20.438	
7,700.00	7,542.16	7,516.77	7,514.75	28.75	26.18	162.13	-387.88	164.51	1,122.00	1,067.66	54.35	20.645	
7,800.00	7,639.26	7,602.89	7,600.83	29.14	26.47	162.50	-386.98	162.05	1,147.58	1,092.61	54.97	20.877	
7,900.00	7,736.36	7,690.89	7,688.76	29.54	26.77	162.88	-386.04	158.83	1,173.99	1,118.39	55.61	21.113	
7,902.86	7,739.13	7,693.40	7,691.27	29.55	26.77	162.89	-386.02	158.73	1,174.76	1,119.13	55.62	21.120	
7,950.00	7,784.76	7,736.87	7,734.70	29.73	26.92	144.78	-385.63	156.94	1,187.23	1,131.28	55.94	21.223	
8,000.00	7,832.63	7,783.28	7,781.07	29.93	27.08	130.35	-385.48	155.00	1,200.03	1,143.75	56.28	21.323	
8,050.00	7,879.58	7,836.41	7,834.16	30.12	27.26	120.39	-385.57	152.86	1,212.30	1,155.63	56.68	21.390	
8,100.00	7,925.27	7,892.22	7,889.94	30.31	27.45	113.63	-385.74	151.05	1,223.78	1,166.68	57.09	21.435	
8,150.00	7,969.35	7,950.57	7,948.27	30.49	27.65	109.09	-385.93	149.75	1,234.47	1,176.94	57.53	21.459	
8,200.00	8,011.47	8,005.32	8,003.02	30.67	27.83	105.97	-386.06	149.16	1,244.46	1,186.53	57.93	21.482	
8,250.00	8,051.32	8,053.80	8,051.50	30.83	28.00	103.73	-386.16	149.03	1,254.08	1,195.79	58.29	21.515	
8,300.00	8,088.60	8,096.49	8,094.18	30.99	28.15	102.07	-386.24	149.18	1,263.59	1,204.99	58.61	21.561	
8,350.00	8,123.02	8,130.89	8,128.58	31.14	28.28	100.67	-386.31	149.35	1,273.36	1,214.50	58.87	21.632	
8,400.00	8,154.32	8,162.20	8,159.90	31.28	28.39	99.51	-386.39	149.51	1,283.61	1,224.51	59.10	21.718	
8,450.00	8,182.27	8,189.43	8,187.12	31.42	28.48	98.47	-386.46	149.63	1,294.48	1,235.17	59.31	21.826	
8,500.00	8,206.64	8,212.21	8,209.91	31.54	28.56	97.42	-386.52	149.71	1,306.11	1,246.63	59.48	21.958	
8,550.00	8,227.26	8,231.52	8,229.21	31.66	28.63	96.34	-386.58	149.75	1,318.61	1,258.98	59.63	22.113	
8,600.00	8,243.96	8,247.20	8,244.90	31.78	28.69	95.18	-386.63	149.77	1,332.00	1,272.26	59.75	22.294	
8,621.67	8,249.95	8,252.84	8,250.54	31.83	28.71	94.65	-386.65	149.77	1,338.10	1,278.31	59.79	22.380	
8,700.00	8,267.63	8,269.54	8,267.24	32.00	28.77	94.08	-386.71	149.76	1,362.58	1,302.66	59.91	22.743	
8,800.00	8,282.55	8,283.56	8,281.25	32.23	28.82	92.69	-386.76	149.74	1,399.86	1,339.86	60.01	23.328	
8,900.00	8,288.79	8,289.63	8,287.33	32.46	28.84	90.55	-386.79	149.73	1,443.40	1,383.37	60.04	24.042	
8,921.67	8,289.00	8,289.90	8,287.60	32.51	28.84	89.98	-386.79	149.73	1,453.59	1,393.56	60.03	24.213	
9,000.00	8,289.00	8,290.21	8,287.90	32.69	28.84	90.00	-386.79	149.73	1,492.47	1,432.45	60.02	24.868	
9,100.00	8,289.00	8,290.60	8,288.30	32.94	28.84	90.01	-386.79	149.73	1,546.45	1,486.46	59.99	25.778	

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 3H
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 3H	**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
9,200.00	8,289.00	8,291.00	8,288.69	33.20	28.84	90.03	-386.79	149.73	1,604.86	1,544.89	59.96	26.764	
9,300.00	8,289.00	8,291.40	8,289.09	33.48	28.84	90.05	-386.80	149.73	1,667.22	1,607.28	59.93	27.817	
9,400.00	8,289.00	8,291.80	8,289.50	33.77	28.84	90.07	-386.80	149.73	1,733.11	1,673.20	59.91	28.930	
9,500.00	8,289.00	8,292.20	8,289.90	34.07	28.85	90.09	-386.80	149.72	1,802.14	1,742.26	59.88	30.096	
9,600.00	8,289.00	8,292.61	8,290.31	34.38	28.85	90.10	-386.80	149.72	1,873.97	1,814.11	59.85	31.309	
9,700.00	8,289.00	8,293.02	8,290.72	34.70	28.85	90.12	-386.80	149.72	1,948.28	1,888.45	59.83	32.562	
9,800.00	8,289.00	8,293.44	8,291.13	35.04	28.85	90.14	-386.81	149.72	2,024.81	1,965.00	59.81	33.852	
9,900.00	8,289.00	8,293.85	8,291.55	35.39	28.85	90.16	-386.81	149.72	2,103.31	2,043.51	59.80	35.175	
10,000.00	8,289.00	8,294.27	8,291.97	35.75	28.85	90.18	-386.81	149.72	2,183.56	2,123.78	59.78	36.525	
10,100.00	8,289.00	8,294.69	8,292.39	36.12	28.85	90.20	-386.81	149.72	2,265.39	2,205.62	59.77	37.901	
10,200.00	8,289.00	8,295.12	8,292.81	36.51	28.86	90.22	-386.81	149.72	2,348.63	2,288.86	59.76	39.298	
10,300.00	8,289.00	8,295.55	8,293.24	36.90	28.86	90.24	-386.81	149.71	2,433.12	2,373.36	59.76	40.716	
10,400.00	8,289.00	8,295.98	8,293.67	37.31	28.86	90.25	-386.82	149.71	2,518.76	2,459.00	59.76	42.150	
10,500.00	8,289.00	8,296.41	8,294.11	37.72	28.86	90.27	-386.82	149.71	2,605.41	2,545.66	59.76	43.600	
10,600.00	8,289.00	8,296.85	8,294.55	38.15	28.86	90.29	-386.82	149.71	2,692.99	2,633.23	59.76	45.063	
10,700.00	8,289.00	8,297.29	8,294.99	38.58	28.86	90.31	-386.82	149.71	2,781.41	2,721.65	59.77	46.537	
10,800.00	8,289.00	13,149.00	10,749.66	39.03	53.12	151.57	-3,061.93	107.39	2,801.14	2,732.31	68.84	40.693	
10,900.00	8,289.00	13,215.48	10,748.55	39.48	53.81	151.61	-3,128.33	110.41	2,797.81	2,727.95	69.86	40.048	
11,000.00	8,289.00	13,278.16	10,748.06	39.94	54.46	151.63	-3,190.98	112.16	2,795.99	2,725.10	70.88	39.446	
11,100.00	8,289.00	13,396.92	10,749.03	40.41	55.72	151.71	-3,309.64	116.67	2,795.24	2,722.94	72.30	38.664	
11,200.00	8,289.00	13,528.00	10,748.52	40.89	57.14	151.84	-3,440.48	124.38	2,792.16	2,718.36	73.80	37.835	
11,300.00	8,289.00	13,590.68	10,747.55	41.38	57.83	151.86	-3,503.13	126.17	2,789.73	2,714.87	74.86	37.266	
11,400.00	8,289.00	13,684.75	10,747.05	41.88	58.87	151.88	-3,597.17	127.93	2,788.57	2,712.39	76.18	36.606	
11,500.00	8,289.00	13,783.36	10,745.19	42.38	59.97	151.85	-3,695.76	128.22	2,786.97	2,709.40	77.58	35.926	
11,600.00	8,289.00	13,855.43	10,743.61	42.89	60.77	151.81	-3,767.81	127.12	2,786.01	2,707.22	78.78	35.363	
11,630.39	8,289.00	13,875.21	10,743.12	43.05	61.00	151.79	-3,787.56	126.37	2,785.95	2,706.81	79.14	35.203	
11,700.00	8,289.00	13,908.00	10,742.23	43.41	61.36	151.75	-3,820.30	124.64	2,786.30	2,706.45	79.85	34.894	
11,800.00	8,289.00	13,978.54	10,740.60	43.93	62.16	151.64	-3,890.65	119.68	2,787.91	2,706.80	81.11	34.373	
11,900.00	8,289.00	14,090.99	10,738.64	44.46	63.43	151.45	-4,002.72	110.62	2,790.48	2,707.68	82.79	33.704	
12,000.00	8,289.00	14,266.05	10,734.35	45.00	65.46	151.23	-4,177.46	101.53	2,790.99	2,705.93	85.06	32.811	
12,100.00	8,289.00	14,464.29	10,730.17	45.55	67.82	151.24	-4,375.59	105.30	2,788.37	2,700.99	87.38	31.912	
12,200.00	8,289.00	14,555.38	10,728.40	46.10	68.92	151.31	-4,466.51	110.43	2,784.17	2,695.44	88.74	31.375	
12,300.00	8,289.00	14,630.12	10,727.64	46.65	69.83	151.37	-4,541.11	114.85	2,780.67	2,690.70	89.97	30.908	
12,400.00	8,289.00	14,716.75	10,726.58	47.21	70.89	151.41	-4,627.68	118.04	2,778.02	2,686.70	91.32	30.420	
12,500.00	8,289.00	14,791.45	10,724.72	47.78	71.80	151.40	-4,702.35	118.65	2,775.73	2,683.11	92.62	29.969	
12,600.00	8,289.00	14,857.00	10,723.82	48.35	72.61	151.38	-4,767.89	118.10	2,775.00	2,681.15	93.85	29.570	
12,688.51	8,289.00	14,994.22	10,721.78	48.86	74.30	151.32	-4,905.08	116.55	2,774.85	2,679.16	95.69	28.997	
12,700.00	8,289.00	15,053.38	10,720.96	48.93	75.04	151.32	-4,964.17	119.13	2,774.50	2,678.23	96.27	28.820	
12,736.87	8,289.00	15,089.23	10,720.53	49.15	75.49	151.27	-4,999.95	121.36	2,773.96	2,677.13	96.83	28.647	
12,750.00	8,289.00	15,101.99	10,720.36	49.23	75.65	151.27	-5,012.68	122.13	2,774.03	2,676.99	97.04	28.586	
12,800.00	8,289.00	15,150.39	10,719.69	49.53	76.27	151.31	-5,061.00	124.93	2,775.56	2,677.68	97.87	28.358	
12,850.00	8,289.00	15,198.22	10,718.95	49.84	76.87	151.45	-5,108.75	127.51	2,779.09	2,680.32	98.77	28.137	
12,900.00	8,289.00	15,237.00	10,718.30	50.15	77.36	151.73	-5,147.48	129.47	2,784.66	2,685.00	99.66	27.943	
12,950.00	8,289.00	15,271.29	10,717.84	50.47	77.79	152.17	-5,181.73	131.13	2,792.41	2,691.85	100.56	27.769	
13,000.00	8,289.00	15,311.42	10,717.55	50.79	78.30	152.70	-5,221.80	133.05	2,802.39	2,700.82	101.57	27.590	
13,050.00	8,289.00	15,325.00	10,717.45	51.10	78.48	153.64	-5,235.37	133.70	2,814.51	2,712.12	102.40	27.487	
13,100.00	8,289.00	15,325.00	10,717.45	51.40	78.48	154.94	-5,235.37	133.70	2,829.19	2,726.05	103.13	27.432	
13,150.00	8,289.00	15,325.00	10,717.45	51.70	78.48	156.50	-5,235.37	133.70	2,846.30	2,742.41	103.90	27.396	
13,200.00	8,289.00	15,325.00	10,717.45	51.99	78.48	158.33	-5,235.37	133.70	2,865.70	2,761.02	104.68	27.375	
13,250.00	8,289.00	15,325.00	10,717.45	52.26	78.48	160.44	-5,235.37	133.70	2,887.21	2,781.73	105.49	27.370	
13,300.00	8,289.00	15,325.00	10,717.45	52.52	78.48	162.81	-5,235.37	133.70	2,910.64	2,804.34	106.30	27.381	
13,350.00	8,289.00	15,325.00	10,717.45	52.77	78.48	165.44	-5,235.37	133.70	2,935.79	2,828.66	107.13	27.404	

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 3H
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 3H	**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
13,400.00	8,289.00	15,325.00	10,717.45	53.00	78.48	168.33	-5,235.37	133.70	2,962.44	2,854.48	107.96	27.440	
13,450.00	8,289.00	15,325.00	10,717.45	53.20	78.48	171.46	-5,235.37	133.70	2,990.38	2,881.59	108.79	27.488	
13,500.00	8,289.00	15,325.00	10,717.45	53.39	78.48	174.79	-5,235.37	133.70	3,019.38	2,909.76	109.61	27.546	
13,550.00	8,289.00	15,325.00	10,717.45	53.55	78.48	178.28	-5,235.37	133.70	3,049.22	2,938.79	110.43	27.612	
13,600.00	8,289.00	15,325.00	10,717.45	53.69	78.48	-178.10	-5,235.37	133.70	3,079.69	2,968.45	111.24	27.686	
13,650.00	8,289.00	15,325.00	10,717.45	53.80	78.48	-174.41	-5,235.37	133.70	3,110.55	2,998.52	112.03	27.766	
13,700.00	8,289.00	15,325.00	10,717.45	53.89	78.48	-170.71	-5,235.37	133.70	3,141.60	3,028.80	112.80	27.851	
13,750.00	8,289.00	15,325.00	10,717.45	53.96	78.48	-167.06	-5,235.37	133.70	3,172.61	3,059.06	113.55	27.940	
13,800.00	8,289.00	15,325.00	10,717.45	54.00	78.48	-163.50	-5,235.37	133.70	3,203.39	3,089.11	114.28	28.032	
13,850.00	8,289.00	15,325.00	10,717.45	54.02	78.48	-160.08	-5,235.37	133.70	3,233.73	3,118.75	114.98	28.125	
13,900.00	8,289.00	15,325.00	10,717.45	54.01	78.48	-156.85	-5,235.37	133.70	3,263.45	3,147.80	115.65	28.219	
13,950.00	8,289.00	15,325.00	10,717.45	53.99	78.48	-153.81	-5,235.37	133.70	3,292.36	3,176.07	116.29	28.312	
14,000.00	8,289.00	15,325.00	10,717.45	53.94	78.48	-151.00	-5,235.37	133.70	3,320.30	3,203.40	116.89	28.404	
14,050.00	8,289.00	15,325.00	10,717.45	53.88	78.48	-148.42	-5,235.37	133.70	3,347.09	3,229.63	117.47	28.494	
14,100.00	8,289.00	15,325.00	10,717.45	53.80	78.48	-146.07	-5,235.37	133.70	3,372.60	3,254.60	118.00	28.581	
14,150.00	8,289.00	15,325.00	10,717.45	53.70	78.48	-143.95	-5,235.37	133.70	3,396.67	3,278.17	118.50	28.664	
14,200.00	8,289.00	15,325.00	10,717.45	53.59	78.48	-142.05	-5,235.37	133.70	3,419.18	3,300.22	118.96	28.742	
14,250.00	8,289.00	15,325.00	10,717.45	53.47	78.48	-140.37	-5,235.37	133.70	3,440.01	3,320.63	119.38	28.815	
14,300.00	8,289.00	15,325.00	10,717.45	53.33	78.48	-138.89	-5,235.37	133.70	3,459.05	3,339.29	119.76	28.883	
14,350.00	8,289.00	15,303.12	10,717.61	53.20	78.20	-137.49	-5,213.52	132.66	3,476.12	3,356.27	119.85	29.003	
14,400.00	8,289.00	15,266.20	10,717.89	53.05	77.73	-136.25	-5,176.64	130.88	3,490.74	3,370.99	119.74	29.152	
14,450.00	8,289.00	15,237.00	10,718.30	52.91	77.36	-135.30	-5,147.48	129.47	3,502.86	3,383.17	119.69	29.266	
14,500.00	8,289.00	15,194.55	10,719.01	52.76	76.82	-134.54	-5,105.09	127.32	3,512.36	3,392.90	119.47	29.401	
14,530.51	8,289.00	15,167.91	10,719.43	52.67	76.49	-134.19	-5,078.49	125.89	3,516.79	3,397.48	119.31	29.477	
14,600.00	8,289.00	15,106.84	10,720.30	52.46	75.72	-133.94	-5,017.52	122.42	3,524.91	3,405.98	118.93	29.639	
14,700.00	8,289.00	14,829.36	10,724.07	52.18	72.27	-133.66	-4,740.25	118.44	3,529.25	3,413.07	116.18	30.377	
14,762.01	8,289.00	14,800.18	10,724.54	52.01	71.91	-133.65	-4,711.08	118.63	3,530.13	3,414.00	116.13	30.398	
14,800.00	8,289.00	14,762.00	10,725.47	51.90	71.44	-133.66	-4,672.91	118.62	3,530.66	3,414.80	115.86	30.474	
14,900.00	8,289.00	14,722.87	10,726.46	51.64	70.96	-133.67	-4,633.79	118.17	3,532.54	3,416.69	115.86	30.490	
15,000.00	8,289.00	14,667.00	10,727.30	51.38	70.28	-133.66	-4,577.96	116.51	3,535.52	3,419.86	115.66	30.567	
15,100.00	8,289.00	14,597.35	10,727.96	51.14	69.43	-133.64	-4,508.40	113.07	3,539.52	3,424.19	115.33	30.691	
15,200.00	8,289.00	14,515.65	10,729.02	50.90	68.44	-133.60	-4,426.86	108.05	3,544.52	3,429.65	114.87	30.856	
15,300.00	8,289.00	14,072.60	10,739.01	50.66	63.22	-133.78	-3,984.38	112.02	3,546.15	3,435.71	110.44	32.110	
15,400.00	8,289.00	13,971.26	10,740.73	50.44	62.08	-133.90	-3,883.38	120.25	3,541.14	3,431.31	109.82	32.244	
15,500.00	8,289.00	13,908.00	10,742.23	50.23	61.36	-133.97	-3,820.30	124.64	3,537.32	3,427.65	109.67	32.256	
15,600.00	8,289.00	13,874.69	10,743.13	50.02	60.99	-134.00	-3,787.05	126.39	3,534.85	3,425.01	109.84	32.182	
15,700.00	8,289.00	13,813.00	10,744.57	49.82	60.30	-134.04	-3,725.40	128.01	3,534.06	3,424.36	109.70	32.215	
15,719.84	8,289.00	13,813.00	10,744.57	49.79	60.30	-134.04	-3,725.40	128.01	3,534.01	3,424.21	109.80	32.185	
15,800.00	8,289.00	13,766.45	10,745.53	49.64	59.78	-134.05	-3,678.86	128.28	3,534.50	3,424.77	109.72	32.212	
15,900.00	8,289.00	13,680.61	10,747.10	49.46	58.82	-134.07	-3,593.04	127.89	3,535.77	3,426.42	109.35	32.334	
16,000.00	8,289.00	13,597.82	10,747.50	49.29	57.90	-134.06	-3,510.26	126.35	3,537.16	3,428.13	109.03	32.443	
16,100.00	8,289.00	13,528.00	10,748.52	49.13	57.14	-134.06	-3,440.48	124.38	3,539.75	3,430.91	108.84	32.524	
16,200.00	8,289.00	13,481.71	10,749.26	48.98	56.64	-134.04	-3,394.24	122.38	3,543.41	3,434.54	108.86	32.549	
16,300.00	8,289.00	13,290.20	10,748.06	48.84	54.59	-133.93	-3,203.02	112.50	3,546.42	3,438.82	107.60	32.958	
16,400.00	8,289.00	13,244.00	10,748.24	48.71	54.11	-133.92	-3,156.84	111.26	3,548.57	3,440.91	107.66	32.961	
16,500.00	8,289.00	13,180.70	10,749.06	48.59	53.45	-133.91	-3,093.58	109.01	3,551.90	3,444.33	107.57	33.020	
16,600.00	8,289.00	8,293.69	8,291.38	48.48	28.85	-90.08	-386.81	149.72	3,509.19	3,443.94	65.25	53.784	
16,700.00	8,289.00	8,293.30	8,291.00	48.38	28.85	-90.07	-386.80	149.72	3,439.88	3,374.31	65.57	52.462	
16,800.00	8,289.00	8,292.92	8,290.62	48.29	28.85	-90.06	-386.80	149.72	3,372.10	3,306.19	65.92	51.157	
16,900.00	8,289.00	8,292.54	8,290.24	48.21	28.85	-90.05	-386.80	149.72	3,305.97	3,239.68	66.29	49.872	
17,000.00	8,289.00	8,292.16	8,289.86	48.15	28.85	-90.04	-386.80	149.72	3,241.57	3,174.88	66.69	48.609	
17,100.00	8,289.00	8,291.79	8,289.48	48.09	28.84	-90.03	-386.80	149.73	3,179.01	3,111.90	67.11	47.370	

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 3H
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 3H	**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
17,200.00	8,289.00	8,291.42	8,289.11	48.05	28.84	-90.03	-386.80	149.73	3,118.40	3,050.84	67.56	46.159	
17,300.00	8,289.00	8,291.05	8,288.74	48.01	28.84	-90.02	-386.80	149.73	3,059.86	2,991.83	68.03	44.978	
17,400.00	8,289.00	8,290.68	8,288.37	47.99	28.84	-90.01	-386.79	149.73	3,003.51	2,934.98	68.53	43.829	
17,500.00	8,289.00	8,290.31	8,288.01	47.99	28.84	-90.00	-386.79	149.73	2,949.48	2,880.43	69.05	42.716	
17,600.00	8,289.00	8,289.95	8,287.65	47.99	28.84	-89.99	-386.79	149.73	2,897.89	2,828.30	69.59	41.641	
17,700.00	8,289.00	8,289.59	8,287.29	48.01	28.84	-89.98	-386.79	149.73	2,848.88	2,778.72	70.16	40.608	
17,800.00	8,289.00	8,289.23	8,286.93	48.04	28.84	-89.98	-386.79	149.73	2,802.58	2,731.84	70.74	39.620	
17,900.00	8,289.00	8,288.88	8,286.57	48.08	28.83	-89.97	-386.79	149.73	2,759.12	2,687.79	71.33	38.680	
18,000.00	8,289.00	8,288.52	8,286.22	48.14	28.83	-89.96	-386.78	149.73	2,718.66	2,646.72	71.94	37.790	
18,100.00	8,289.00	8,288.17	8,285.87	48.21	28.83	-89.95	-386.78	149.73	2,681.31	2,608.75	72.56	36.955	
18,200.00	8,289.00	8,287.82	8,285.52	48.29	28.83	-89.94	-386.78	149.74	2,647.22	2,574.04	73.18	36.176	
18,300.00	8,289.00	8,287.47	8,285.17	48.39	28.83	-89.94	-386.78	149.74	2,616.50	2,542.71	73.80	35.456	
18,400.00	8,289.00	8,287.13	8,284.82	48.50	28.83	-89.93	-386.78	149.74	2,589.29	2,514.88	74.41	34.798	
18,500.00	8,289.00	8,286.79	8,284.48	48.63	28.83	-89.92	-386.78	149.74	2,565.69	2,490.68	75.01	34.204	
18,600.00	8,289.00	8,286.44	8,284.14	48.76	28.83	-89.91	-386.78	149.74	2,545.80	2,470.20	75.60	33.676	
18,700.00	8,289.00	8,286.11	8,283.80	48.92	28.82	-89.90	-386.77	149.74	2,529.71	2,453.55	76.16	33.215	
18,800.00	8,289.00	8,285.77	8,283.47	49.08	28.82	-89.90	-386.77	149.74	2,517.49	2,440.79	76.70	32.823	
18,900.00	8,289.00	8,285.43	8,283.13	49.26	28.82	-89.89	-386.77	149.74	2,509.20	2,431.99	77.20	32.501	
19,000.00	8,289.00	8,285.10	8,282.80	49.46	28.82	-89.88	-386.77	149.74	2,504.88	2,427.20	77.67	32.249	
19,058.35	8,289.00	8,284.91	8,282.61	49.59	28.82	-89.88	-386.77	149.74	2,504.20	2,426.35	77.85	32.167	
19,100.00	8,289.00	8,284.77	8,282.47	50.02	28.82	-89.87	-386.77	149.74	2,504.54	2,426.59	77.95	32.131	
19,101.33	8,289.00	8,284.77	8,282.46	50.05	28.82	-89.87	-386.77	149.74	2,504.57	2,426.61	77.95	32.130	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	57.58	4,596.73	4,597.36				
100.00	100.00	53.92	53.92	0.28	0.71	89.28	57.55	4,596.71	4,597.07	4,596.08	0.99	4,656.887	
200.00	200.00	184.38	184.38	0.63	0.83	89.28	57.45	4,596.02	4,596.51	4,595.04	1.47	3,137.147	
300.00	300.00	343.41	343.38	0.99	1.23	89.28	57.99	4,593.32	4,594.64	4,592.42	2.21	2,075.719	
400.00	400.00	443.01	442.96	1.35	1.53	89.27	58.57	4,591.30	4,592.61	4,589.74	2.87	1,600.137	
500.00	500.00	528.34	528.28	1.71	1.80	89.27	58.83	4,589.61	4,590.65	4,587.16	3.50	1,312.133	
600.00	600.00	600.00	599.92	2.07	2.03	89.26	59.42	4,588.68	4,589.33	4,585.24	4.09	1,122.073	
700.00	700.00	666.55	666.46	2.43	2.25	89.25	60.31	4,588.26	4,588.68	4,584.01	4.67	982.897	
800.00	800.00	758.48	758.38	2.79	2.55	89.23	61.90	4,588.08	4,588.50	4,583.17	5.33	860.076	
900.00	900.00	867.77	867.65	3.14	2.92	89.20	64.17	4,587.74	4,588.23	4,582.16	6.06	756.612	
1,000.00	1,000.00	992.60	992.44	3.50	3.35	89.16	67.20	4,586.93	4,587.62	4,580.77	6.85	669.632	
1,100.00	1,100.00	1,143.74	1,143.50	3.86	3.87	89.11	71.55	4,584.60	4,586.11	4,578.38	7.73	593.126	
1,200.00	1,200.00	1,268.08	1,267.79	4.22	4.30	89.08	73.44	4,581.63	4,583.73	4,575.22	8.52	538.060	
1,300.00	1,300.00	1,379.53	1,379.20	4.58	4.69	89.08	73.33	4,578.62	4,581.03	4,571.77	9.26	494.628	
1,400.00	1,400.00	1,499.65	1,499.25	4.94	5.10	89.09	72.28	4,575.01	4,578.01	4,567.98	10.03	456.207	
1,500.00	1,500.00	1,603.41	1,602.95	5.29	5.46	89.11	70.89	4,571.61	4,574.71	4,563.96	10.75	425.422	
1,600.00	1,600.00	1,713.35	1,712.81	5.65	5.85	89.13	69.14	4,567.77	4,571.19	4,559.70	11.49	397.712	
1,700.00	1,700.00	1,800.00	1,799.40	6.01	6.15	89.15	67.55	4,564.99	4,567.93	4,555.78	12.15	375.818	
1,800.00	1,800.00	1,851.42	1,850.79	6.37	6.33	89.16	66.52	4,563.69	4,565.29	4,552.59	12.69	359.640	
1,900.00	1,899.98	1,900.00	1,899.35	6.72	6.50	-15.57	65.53	4,562.79	4,561.85	4,548.64	13.21	345.296	
2,000.00	1,999.84	1,974.04	1,973.38	7.06	6.76	-15.59	64.03	4,562.05	4,555.84	4,542.03	13.81	329.978	
2,100.00	2,099.45	2,044.79	2,044.11	7.40	7.00	-15.64	62.68	4,561.97	4,547.29	4,532.90	14.39	315.986	
2,200.00	2,198.70	2,100.00	2,099.31	7.74	7.19	-15.71	61.71	4,562.15	4,535.97	4,521.05	14.92	303.995	
2,300.00	2,297.47	2,173.44	2,172.74	8.09	7.44	-15.81	60.42	4,562.94	4,522.03	4,506.51	15.52	291.450	
2,400.00	2,395.62	2,229.95	2,229.22	8.44	7.64	-15.93	59.37	4,564.15	4,505.74	4,489.69	16.05	280.712	
2,491.84	2,485.13	2,300.00	2,299.23	8.76	7.88	-16.06	58.15	4,566.39	4,488.74	4,472.14	16.61	270.277	
2,500.00	2,493.06	2,300.00	2,299.23	8.79	7.88	-16.06	58.15	4,566.39	4,487.11	4,470.48	16.64	269.708	
2,600.00	2,590.16	2,346.68	2,345.86	9.14	8.04	-16.09	57.26	4,568.30	4,467.91	4,450.77	17.14	260.715	
2,700.00	2,687.25	2,433.51	2,432.57	9.50	8.35	-16.14	55.14	4,572.45	4,449.50	4,431.72	17.78	250.189	
2,800.00	2,784.35	2,653.51	2,652.41	9.86	9.12	-16.27	50.96	4,579.32	4,429.33	4,410.42	18.90	234.303	
2,900.00	2,881.45	2,762.21	2,761.08	10.23	9.49	-16.35	49.63	4,581.14	4,407.93	4,388.29	19.63	224.506	
3,000.00	2,978.55	2,857.86	2,856.71	10.60	9.83	-16.43	48.71	4,582.70	4,386.50	4,366.18	20.32	215.858	
3,100.00	3,075.65	2,965.70	2,964.53	10.96	10.20	-16.51	47.68	4,584.43	4,365.07	4,344.01	21.05	207.338	
3,200.00	3,172.74	3,085.06	3,083.88	11.34	10.62	-16.61	46.71	4,585.83	4,343.21	4,321.39	21.83	198.999	
3,300.00	3,269.84	3,183.00	3,181.82	11.71	10.96	-16.69	46.11	4,586.68	4,321.08	4,298.55	22.53	191.815	
3,400.00	3,366.94	3,278.28	3,277.09	12.08	11.29	-16.77	45.46	4,587.56	4,299.01	4,275.78	23.22	185.123	
3,500.00	3,464.04	3,386.14	3,384.94	12.46	11.66	-16.86	44.34	4,588.49	4,276.88	4,252.91	23.96	178.492	
3,600.00	3,561.14	3,509.99	3,508.78	12.83	12.09	-16.95	42.86	4,589.01	4,254.31	4,229.56	24.75	171.867	
3,700.00	3,658.24	3,607.11	3,605.90	13.21	12.43	-17.03	41.89	4,589.12	4,231.46	4,206.00	25.46	166.205	
3,800.00	3,755.33	3,704.05	3,702.83	13.59	12.77	-17.12	40.99	4,589.21	4,208.61	4,182.44	26.17	160.843	
3,900.00	3,852.43	3,810.21	3,808.99	13.97	13.14	-17.21	39.94	4,589.19	4,185.64	4,158.74	26.90	155.581	
4,000.00	3,949.53	3,908.89	3,907.67	14.35	13.48	-17.29	38.95	4,589.05	4,162.58	4,134.96	27.62	150.721	
4,100.00	4,046.63	4,014.44	4,013.20	14.73	13.85	-17.39	37.98	4,588.77	4,139.39	4,111.04	28.35	145.986	
4,200.00	4,143.73	4,116.25	4,115.02	15.11	14.21	-17.48	37.07	4,588.34	4,116.08	4,086.99	29.08	141.540	
4,300.00	4,240.82	4,220.97	4,219.73	15.50	14.57	-17.57	36.14	4,587.74	4,092.62	4,062.80	29.82	137.261	
4,400.00	4,337.92	4,324.49	4,323.24	15.88	14.93	-17.67	35.21	4,586.94	4,068.97	4,038.42	30.55	133.195	
4,500.00	4,435.02	4,420.13	4,418.87	16.27	15.27	-17.75	34.14	4,586.18	4,045.30	4,014.05	31.26	129.415	
4,600.00	4,532.12	4,518.60	4,517.32	16.65	15.61	-17.84	32.78	4,585.39	4,021.64	3,989.66	31.98	125.767	
4,700.00	4,629.22	4,616.10	4,614.82	17.04	15.95	-17.92	31.30	4,584.59	3,997.94	3,965.25	32.69	122.286	
4,800.00	4,726.31	4,709.03	4,707.73	17.42	16.28	-18.00	29.81	4,583.87	3,974.31	3,940.91	33.40	119.001	
4,900.00	4,823.41	4,800.00	4,798.68	17.81	16.59	-18.08	28.09	4,583.34	3,950.84	3,916.74	34.10	115.874	
5,000.00	4,920.51	4,896.60	4,895.26	18.20	16.93	-18.15	25.90	4,582.87	3,927.46	3,892.65	34.81	112.819	

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 3H
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 3H	**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
5,100.00	5,017.61	4,991.98	4,990.61	18.58	17.26	-18.23	23.55	4,582.41	3,904.08	3,868.56	35.53	109.895	
5,200.00	5,114.71	5,088.00	5,086.59	18.97	17.60	-18.30	21.10	4,581.98	3,880.75	3,844.50	36.24	107.081	
5,300.00	5,211.80	5,178.47	5,177.03	19.36	17.92	-18.37	18.88	4,581.66	3,857.50	3,820.56	36.94	104.422	
5,400.00	5,308.90	5,274.77	5,273.31	19.75	18.25	-18.45	16.85	4,581.42	3,834.39	3,796.73	37.66	101.818	
5,500.00	5,406.00	5,372.08	5,370.60	20.14	18.59	-18.53	14.76	4,581.17	3,811.27	3,772.89	38.38	99.304	
5,600.00	5,503.10	5,478.86	5,477.35	20.53	18.97	-18.62	12.46	4,580.79	3,788.07	3,748.94	39.13	96.813	
5,700.00	5,600.20	5,571.74	5,570.21	20.91	19.29	-18.70	10.36	4,580.33	3,764.73	3,724.89	39.84	94.503	
5,800.00	5,697.30	5,669.38	5,667.82	21.30	19.63	-18.78	8.07	4,579.97	3,741.52	3,700.96	40.56	92.246	
5,900.00	5,794.39	5,766.35	5,764.77	21.69	19.97	-18.87	5.79	4,579.57	3,718.27	3,676.98	41.28	90.070	
6,000.00	5,891.49	5,851.44	5,849.84	22.09	20.27	-18.94	3.92	4,579.31	3,695.15	3,653.18	41.97	88.039	
6,100.00	5,988.59	5,938.39	5,936.77	22.48	20.57	-19.03	2.42	4,579.39	3,672.44	3,629.77	42.67	86.073	
6,200.00	6,085.69	6,036.05	6,034.42	22.87	20.92	-19.12	0.71	4,579.54	3,649.80	3,606.41	43.39	84.114	
6,300.00	6,182.79	6,132.76	6,131.11	23.26	21.25	-19.22	-0.85	4,579.68	3,627.18	3,583.07	44.11	82.223	
6,400.00	6,279.88	6,229.38	6,227.72	23.65	21.59	-19.32	-2.37	4,579.85	3,604.59	3,559.75	44.84	80.394	
6,500.00	6,376.98	6,326.23	6,324.56	24.04	21.93	-19.42	-3.89	4,580.01	3,582.01	3,536.45	45.56	78.622	
6,600.00	6,474.08	6,434.00	6,432.31	24.43	22.31	-19.53	-5.55	4,580.18	3,559.44	3,513.13	46.31	76.857	
6,700.00	6,571.18	6,580.23	6,578.54	24.82	22.82	-19.72	-6.28	4,578.86	3,535.92	3,488.77	47.16	74.978	
6,800.00	6,668.28	6,808.22	6,806.30	25.22	23.62	-20.08	-4.31	4,569.49	3,508.72	3,460.55	48.17	72.841	
6,900.00	6,765.37	6,858.00	6,856.01	25.61	23.79	-20.16	-3.45	4,567.13	3,481.69	3,432.89	48.80	71.353	
7,000.00	6,862.47	6,920.03	6,918.00	26.00	24.01	-20.27	-2.48	4,564.93	3,455.79	3,406.35	49.44	69.894	
7,100.00	6,959.57	8,771.48	8,272.96	26.39	29.90	-8.48	-703.81	4,261.00	3,423.78	3,373.17	50.61	67.644	
7,200.00	7,056.67	8,774.66	8,273.16	26.78	29.92	-8.41	-706.94	4,260.50	3,364.30	3,312.86	51.44	65.404	
7,300.00	7,153.77	8,777.89	8,273.38	27.18	29.94	-8.34	-710.13	4,260.01	3,306.76	3,254.49	52.27	63.266	
7,400.00	7,250.86	8,781.19	8,273.59	27.57	29.97	-8.27	-713.38	4,259.51	3,251.27	3,198.18	53.10	61.232	
7,500.00	7,347.96	8,792.00	8,274.32	27.96	30.04	-8.05	-724.05	4,257.90	3,197.97	3,143.99	53.98	59.248	
7,600.00	7,445.06	8,792.00	8,274.32	28.36	30.04	-8.05	-724.05	4,257.90	3,146.88	3,092.10	54.78	57.447	
7,700.00	7,542.16	8,792.00	8,274.32	28.75	30.04	-8.05	-724.05	4,257.90	3,098.19	3,042.61	55.57	55.750	
7,800.00	7,639.26	8,792.00	8,274.32	29.14	30.04	-8.05	-724.05	4,257.90	3,051.99	2,995.63	56.35	54.157	
7,900.00	7,736.36	8,792.00	8,274.32	29.54	30.04	-8.05	-724.05	4,257.90	3,008.41	2,951.29	57.12	52.669	
7,902.86	7,739.13	8,792.00	8,274.32	29.55	30.04	-8.05	-724.05	4,257.90	3,007.20	2,950.06	57.14	52.628	
7,950.00	7,784.76	8,792.00	8,274.32	29.73	30.04	-27.30	-724.05	4,257.90	2,987.57	2,930.08	57.49	51.964	
8,000.00	7,832.63	8,792.00	8,274.32	29.93	30.04	-43.09	-724.05	4,257.90	2,967.37	2,909.52	57.86	51.289	
8,050.00	7,879.58	8,792.00	8,274.32	30.12	30.04	-54.63	-724.05	4,257.90	2,947.99	2,889.78	58.21	50.648	
8,100.00	7,925.27	8,792.00	8,274.32	30.31	30.04	-63.17	-724.05	4,257.90	2,929.59	2,871.05	58.54	50.045	
8,150.00	7,969.35	8,808.74	8,275.30	30.49	30.16	-69.38	-740.61	4,255.70	2,912.05	2,853.08	58.97	49.380	
8,200.00	8,011.47	8,824.00	8,275.91	30.67	30.26	-74.24	-755.77	4,254.09	2,896.01	2,836.63	59.38	48.774	
8,250.00	8,051.32	8,824.00	8,275.91	30.83	30.26	-78.35	-755.77	4,254.09	2,881.13	2,821.48	59.65	48.301	
8,300.00	8,088.60	8,824.00	8,275.91	30.99	30.26	-81.70	-755.77	4,254.09	2,867.78	2,807.88	59.90	47.875	
8,350.00	8,123.02	8,844.91	8,276.42	31.14	30.41	-84.14	-776.60	4,252.24	2,855.93	2,795.65	60.29	47.372	
8,400.00	8,154.32	8,950.25	8,276.53	31.28	31.20	-85.09	-881.47	4,242.42	2,845.19	2,783.86	61.33	46.392	
8,450.00	8,182.27	9,092.20	8,275.93	31.42	32.39	-85.48	-1,022.32	4,225.09	2,834.59	2,771.82	62.77	45.156	
8,500.00	8,206.64	9,149.37	8,278.45	31.54	32.91	-86.77	-1,078.80	4,216.66	2,823.89	2,760.41	63.47	44.489	
8,550.00	8,227.26	9,194.86	8,280.80	31.66	33.34	-87.98	-1,123.72	4,209.87	2,814.15	2,750.09	64.06	43.933	
8,600.00	8,243.96	9,220.57	8,282.08	31.78	33.59	-89.11	-1,149.12	4,206.12	2,805.61	2,741.18	64.44	43.541	
8,621.67	8,249.95	9,231.47	8,282.58	31.83	33.69	-89.53	-1,159.90	4,204.60	2,802.36	2,737.77	64.59	43.386	
8,700.00	8,267.63	9,274.26	8,284.30	32.00	34.11	-89.92	-1,202.29	4,198.98	2,791.59	2,726.41	65.18	42.828	
8,800.00	8,282.55	9,341.46	8,286.37	32.23	34.78	-90.39	-1,268.98	4,190.92	2,779.03	2,712.98	66.05	42.072	
8,900.00	8,288.79	9,419.47	8,288.43	32.46	35.59	-90.91	-1,346.47	4,182.29	2,767.48	2,700.45	67.04	41.284	
8,921.67	8,289.00	9,437.04	8,288.87	32.51	35.77	-91.04	-1,363.94	4,180.42	2,765.09	2,697.84	67.25	41.115	
9,000.00	8,289.00	9,490.74	8,290.09	32.69	36.34	-91.07	-1,417.35	4,174.96	2,756.81	2,688.87	67.95	40.572	
9,100.00	8,289.00	9,688.58	8,295.28	32.94	38.55	-91.19	-1,613.83	4,152.67	2,745.37	2,675.01	70.36	39.020	
9,200.00	8,289.00	9,768.00	8,297.51	33.20	39.48	-91.24	-1,692.56	4,142.43	2,732.08	2,660.60	71.48	38.222	

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 3H
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 3H	**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
9,300.00	8,289.00	9,841.86	8,299.35	33.48	40.37	-91.28	-1,765.87	4,133.65	2,719.76	2,647.19	72.57	37.476	
9,400.00	8,289.00	9,933.73	8,300.87	33.77	41.49	-91.32	-1,857.14	4,123.17	2,707.95	2,634.03	73.92	36.632	
9,500.00	8,289.00	10,023.00	8,301.41	34.07	42.60	-91.34	-1,945.84	4,113.23	2,696.39	2,621.11	75.28	35.818	
9,600.00	8,289.00	10,110.08	8,301.10	34.38	43.70	-91.33	-2,032.44	4,104.01	2,685.35	2,608.70	76.65	35.033	
9,700.00	8,289.00	10,328.06	8,300.36	34.70	46.54	-91.33	-2,248.63	4,076.45	2,672.28	2,592.54	79.73	33.515	
9,800.00	8,289.00	10,429.29	8,300.36	35.04	47.90	-91.34	-2,348.69	4,061.17	2,656.74	2,575.36	81.38	32.648	
9,900.00	8,289.00	10,497.55	8,301.68	35.39	48.83	-91.37	-2,416.22	4,051.29	2,641.89	2,559.27	82.62	31.977	
10,000.00	8,289.00	10,551.10	8,303.71	35.75	49.56	-91.42	-2,469.27	4,044.19	2,628.38	2,544.69	83.69	31.407	
10,100.00	8,289.00	10,596.00	8,305.24	36.12	50.17	-91.46	-2,513.86	4,039.27	2,616.96	2,532.30	84.66	30.913	
10,200.00	8,289.00	10,631.71	8,305.95	36.51	50.66	-91.48	-2,549.43	4,036.16	2,607.76	2,522.26	85.51	30.497	
10,300.00	8,289.00	10,678.30	8,305.87	36.90	51.30	-91.48	-2,595.92	4,033.20	2,600.84	2,514.33	86.51	30.063	
10,400.00	8,289.00	10,751.36	8,304.37	37.31	52.30	-91.45	-2,668.88	4,029.67	2,595.47	2,507.57	87.90	29.526	
10,500.00	8,289.00	10,973.82	8,302.68	37.72	55.41	-91.42	-2,890.69	4,013.78	2,587.54	2,496.12	91.42	28.304	
10,600.00	8,289.00	11,052.84	8,302.79	38.15	56.53	-91.42	-2,969.40	4,006.84	2,578.30	2,485.34	92.96	27.736	
10,700.00	8,289.00	11,247.47	8,301.95	38.58	59.33	-91.42	-3,162.99	3,986.85	2,567.60	2,471.50	96.10	26.718	
10,800.00	8,289.00	11,333.91	8,301.91	39.03	60.59	-91.42	-3,248.80	3,976.50	2,555.20	2,457.41	97.80	26.128	
10,900.00	8,289.00	11,459.52	8,301.12	39.48	62.44	-91.41	-3,373.46	3,961.08	2,542.43	2,442.40	100.03	25.416	
11,000.00	8,289.00	11,652.27	8,300.65	39.94	65.30	-91.42	-3,564.13	3,933.00	2,527.36	2,424.23	103.13	24.506	
11,100.00	8,289.00	11,719.14	8,302.28	40.41	66.30	-91.46	-3,630.11	3,922.25	2,511.01	2,406.36	104.64	23.996	
11,200.00	8,289.00	11,742.00	8,303.31	40.89	66.64	-91.49	-3,652.69	3,918.87	2,496.73	2,391.14	105.59	23.646	
11,300.00	8,289.00	11,806.00	8,306.33	41.38	67.60	-91.56	-3,716.16	3,911.30	2,484.70	2,377.65	107.05	23.210	
11,400.00	8,289.00	11,841.47	8,307.56	41.88	68.13	-91.59	-3,751.48	3,908.22	2,475.16	2,367.04	108.13	22.891	
11,500.00	8,289.00	11,913.13	8,308.42	42.38	69.20	-91.62	-3,822.93	3,902.94	2,467.33	2,357.63	109.70	22.491	
11,600.00	8,289.00	11,996.00	8,308.09	42.89	70.44	-91.61	-3,905.63	3,897.56	2,460.37	2,348.92	111.46	22.075	
11,700.00	8,289.00	12,085.16	8,307.12	43.41	71.77	-91.59	-3,994.64	3,892.60	2,454.29	2,340.97	113.32	21.658	
11,800.00	8,289.00	12,280.66	8,300.14	43.93	74.72	-91.44	-4,189.44	3,877.85	2,446.34	2,329.60	116.74	20.955	
11,900.00	8,289.00	12,413.56	8,299.82	44.46	76.75	-91.44	-4,321.51	3,863.36	2,434.83	2,315.60	119.23	20.421	
12,000.00	8,289.00	12,504.58	8,302.28	45.00	78.14	-91.51	-4,411.95	3,853.48	2,423.59	2,302.44	121.16	20.004	
12,100.00	8,289.00	12,615.52	8,303.33	45.55	79.85	-91.54	-4,522.22	3,841.30	2,412.21	2,288.84	123.36	19.554	
12,200.00	8,289.00	12,694.88	8,303.84	46.10	81.07	-91.56	-4,601.10	3,832.60	2,400.85	2,275.69	125.16	19.182	
12,300.00	8,289.00	12,758.00	8,304.77	46.65	82.04	-91.58	-4,663.87	3,826.00	2,390.28	2,263.54	126.74	18.859	
12,400.00	8,289.00	12,821.00	8,305.54	47.21	83.01	-91.61	-4,726.61	3,820.40	2,381.25	2,252.94	128.31	18.558	
12,500.00	8,289.00	12,916.32	8,305.60	47.78	84.48	-91.61	-4,821.68	3,813.53	2,373.60	2,243.25	130.35	18.209	
12,600.00	8,289.00	13,011.00	8,305.00	48.35	85.94	-91.60	-4,916.12	3,806.87	2,366.11	2,233.72	132.39	17.872	
12,688.51	8,289.00	13,091.56	8,306.20	48.86	87.19	-91.64	-4,996.50	3,801.54	2,359.89	2,225.74	134.15	17.592	
12,700.00	8,289.00	13,108.87	8,306.40	48.93	87.46	-91.64	-5,013.76	3,800.37	2,358.95	2,224.47	134.48	17.542	
12,750.00	8,289.00	13,161.53	8,306.55	49.23	88.27	-91.67	-5,066.28	3,796.61	2,352.18	2,216.60	135.58	17.349	
12,800.00	8,289.00	13,202.00	8,306.29	49.53	88.90	-91.70	-5,106.66	3,793.88	2,341.55	2,205.04	136.51	17.153	
12,850.00	8,289.00	13,240.08	8,305.76	49.84	89.49	-91.74	-5,144.66	3,791.47	2,327.13	2,189.73	137.40	16.937	
12,900.00	8,289.00	13,284.62	8,304.93	50.15	90.18	-91.79	-5,189.11	3,788.75	2,308.93	2,170.55	138.39	16.685	
12,950.00	8,289.00	13,305.00	8,304.53	50.47	90.49	-91.86	-5,209.45	3,787.50	2,287.11	2,148.11	139.00	16.454	
13,000.00	8,289.00	13,305.00	8,304.53	50.79	90.49	-91.94	-5,209.45	3,787.50	2,262.42	2,123.15	139.27	16.244	
13,050.00	8,289.00	13,305.00	8,304.53	51.10	90.49	-92.05	-5,209.45	3,787.50	2,235.03	2,095.53	139.50	16.021	
13,100.00	8,289.00	13,305.00	8,304.53	51.40	90.49	-92.18	-5,209.45	3,787.50	2,205.03	2,065.34	139.69	15.785	
13,150.00	8,289.00	13,305.00	8,304.53	51.70	90.49	-92.34	-5,209.45	3,787.50	2,172.52	2,032.67	139.85	15.535	
13,200.00	8,289.00	13,305.00	8,304.53	51.99	90.49	-92.54	-5,209.45	3,787.50	2,137.60	1,997.64	139.96	15.273	
13,250.00	8,289.00	13,305.00	8,304.53	52.26	90.49	-92.78	-5,209.45	3,787.50	2,100.40	1,960.35	140.04	14.998	
13,300.00	8,289.00	13,305.00	8,304.53	52.52	90.49	-93.09	-5,209.45	3,787.50	2,061.05	1,920.95	140.10	14.712	
13,350.00	8,289.00	13,305.00	8,304.53	52.77	90.49	-93.49	-5,209.45	3,787.50	2,019.71	1,879.58	140.12	14.414	
13,400.00	8,289.00	13,305.00	8,304.53	53.00	90.49	-94.02	-5,209.45	3,787.50	1,976.53	1,836.40	140.13	14.105	
13,450.00	8,289.00	13,305.00	8,304.53	53.20	90.49	-94.74	-5,209.45	3,787.50	1,931.69	1,791.57	140.12	13.786	
13,500.00	8,289.00	13,305.00	8,304.53	53.39	90.49	-95.81	-5,209.45	3,787.50	1,885.39	1,745.30	140.09	13.458	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy — **Offset Site Error:** 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD — **Rule Assigned:** — **Offset Well Error:** 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,550.00	8,289.00	13,305.00	8,304.53	53.55	90.49	-97.48	-5,209.45	3,787.50	1,837.85	1,697.79	140.06	13.122	
13,600.00	8,289.00	13,305.00	8,304.53	53.69	90.49	-100.49	-5,209.45	3,787.50	1,789.30	1,649.27	140.03	12.778	
13,650.00	8,289.00	13,305.00	8,304.53	53.80	90.49	-107.26	-5,209.45	3,787.50	1,739.99	1,599.99	140.00	12.429	
13,700.00	8,289.00	13,305.00	8,304.53	53.89	90.49	-132.86	-5,209.45	3,787.50	1,690.20	1,550.23	139.97	12.075	
13,750.00	8,289.00	13,305.00	8,304.53	53.96	90.49	134.74	-5,209.45	3,787.50	1,640.26	1,500.30	139.96	11.719	
13,800.00	8,289.00	13,305.00	8,304.53	54.00	90.49	108.29	-5,209.45	3,787.50	1,590.48	1,450.52	139.96	11.364	
13,850.00	8,289.00	13,305.00	8,304.53	54.02	90.49	101.40	-5,209.45	3,787.50	1,541.25	1,401.28	139.97	11.011	
13,900.00	8,289.00	13,305.00	8,304.53	54.01	90.49	98.37	-5,209.45	3,787.50	1,492.96	1,352.97	140.00	10.664	
13,950.00	8,289.00	13,305.00	8,304.53	53.99	90.49	96.69	-5,209.45	3,787.50	1,446.06	1,306.03	140.03	10.327	
14,000.00	8,289.00	13,305.00	8,304.53	53.94	90.49	95.63	-5,209.45	3,787.50	1,401.01	1,260.95	140.06	10.003	
14,050.00	8,289.00	13,305.00	8,304.53	53.88	90.49	94.92	-5,209.45	3,787.50	1,358.31	1,218.25	140.07	9.698	
14,100.00	8,289.00	13,305.00	8,304.53	53.80	90.49	94.42	-5,209.45	3,787.50	1,318.50	1,178.46	140.04	9.415	
14,150.00	8,289.00	13,305.00	8,304.53	53.70	90.49	94.05	-5,209.45	3,787.50	1,282.13	1,142.18	139.95	9.161	
14,200.00	8,289.00	13,305.00	8,304.53	53.59	90.49	93.77	-5,209.45	3,787.50	1,249.75	1,109.98	139.77	8.941	
14,250.00	8,289.00	13,305.00	8,304.53	53.47	90.49	93.57	-5,209.45	3,787.50	1,221.91	1,082.43	139.48	8.760	
14,300.00	8,289.00	13,292.04	8,304.78	53.33	90.29	93.45	-5,196.52	3,788.30	1,199.04	1,060.12	138.93	8.631	
14,350.00	8,289.00	13,246.26	8,305.66	53.20	89.58	93.44	-5,150.83	3,791.09	1,180.33	1,042.31	138.02	8.552	
14,400.00	8,289.00	13,202.00	8,306.29	53.05	88.90	93.42	-5,106.66	3,793.88	1,165.56	1,028.43	137.12	8.500	
14,450.00	8,289.00	13,159.01	8,306.56	52.91	88.23	93.40	-5,063.77	3,796.79	1,154.95	1,018.70	136.24	8.477	SF
14,500.00	8,289.00	13,106.79	8,306.38	52.76	87.42	93.38	-5,011.68	3,800.51	1,148.54	1,013.24	135.30	8.489	
14,530.51	8,289.00	13,071.13	8,305.88	52.67	86.87	93.35	-4,976.11	3,802.88	1,146.47	1,011.77	134.70	8.512	
14,600.00	8,289.00	13,006.20	8,304.94	52.46	85.87	93.30	-4,911.33	3,807.20	1,144.66	1,011.19	133.47	8.576	ES
14,612.47	8,289.00	12,994.81	8,304.86	52.43	85.69	93.30	-4,899.96	3,807.98	1,144.62	1,011.37	133.25	8.590	CC
14,700.00	8,289.00	12,911.19	8,305.65	52.18	84.40	93.34	-4,816.56	3,813.90	1,146.72	1,015.04	131.68	8.708	
14,762.01	8,289.00	12,849.44	8,305.79	52.01	83.45	93.34	-4,754.97	3,818.33	1,150.51	1,019.94	130.57	8.812	
14,800.00	8,289.00	12,821.00	8,305.54	51.90	83.01	93.32	-4,726.61	3,820.40	1,153.45	1,023.49	129.96	8.875	
14,900.00	8,289.00	12,748.70	8,304.65	51.64	81.90	93.26	-4,654.62	3,826.98	1,162.95	1,034.56	128.39	9.058	
15,000.00	8,289.00	12,655.94	8,303.38	51.38	80.47	93.16	-4,562.39	3,836.77	1,173.86	1,047.17	126.69	9.266	
15,100.00	8,289.00	12,555.87	8,302.99	51.14	78.93	93.11	-4,462.94	3,847.90	1,185.39	1,060.44	124.95	9.487	
15,200.00	8,289.00	12,453.61	8,301.07	50.90	77.36	92.99	-4,361.30	3,858.98	1,196.55	1,073.31	123.24	9.709	
15,300.00	8,289.00	12,362.49	8,298.57	50.66	75.97	92.85	-4,270.79	3,869.20	1,208.04	1,086.43	121.62	9.933	
15,400.00	8,289.00	12,229.95	8,302.37	50.44	73.95	92.99	-4,138.99	3,882.41	1,218.63	1,098.99	119.64	10.186	
15,500.00	8,289.00	12,101.57	8,306.78	50.23	72.02	93.18	-4,011.02	3,891.62	1,226.39	1,108.74	117.65	10.424	
15,600.00	8,289.00	11,996.00	8,308.09	50.02	70.44	93.22	-3,905.63	3,897.56	1,232.49	1,116.58	115.91	10.633	
15,700.00	8,289.00	11,910.52	8,308.41	49.82	69.16	93.22	-3,820.33	3,903.12	1,239.43	1,125.03	114.39	10.835	
15,800.00	8,289.00	11,828.41	8,307.18	49.64	67.93	93.15	-3,738.47	3,909.31	1,247.35	1,134.41	112.94	11.044	
15,900.00	8,289.00	11,771.68	8,304.77	49.46	67.09	93.02	-3,682.08	3,914.95	1,257.65	1,145.96	111.69	11.260	
16,000.00	8,289.00	11,715.25	8,302.13	49.29	66.24	92.88	-3,626.27	3,922.85	1,271.71	1,161.30	110.41	11.518	
16,100.00	8,289.00	11,630.92	8,300.53	49.13	64.98	92.78	-3,543.07	3,936.48	1,288.15	1,179.20	108.95	11.824	
16,200.00	8,289.00	11,480.98	8,301.04	48.98	62.76	92.75	-3,394.75	3,958.40	1,303.37	1,196.27	107.10	12.169	
16,300.00	8,289.00	11,373.71	8,301.46	48.84	61.18	92.74	-3,288.34	3,971.93	1,316.48	1,210.96	105.52	12.476	
16,400.00	8,289.00	11,278.86	8,302.04	48.71	59.79	92.74	-3,194.14	3,983.05	1,328.66	1,224.62	104.04	12.770	
16,500.00	8,289.00	11,161.02	8,301.94	48.59	58.08	92.71	-3,077.12	3,996.87	1,340.87	1,238.44	102.42	13.091	
16,600.00	8,289.00	11,032.42	8,302.86	48.48	56.24	92.72	-2,949.06	4,008.56	1,350.28	1,249.58	100.71	13.408	
16,700.00	8,289.00	10,944.51	8,302.41	48.38	54.99	92.69	-2,861.51	4,016.52	1,359.74	1,260.36	99.38	13.683	
16,800.00	8,289.00	10,778.44	8,303.62	48.29	52.67	92.71	-2,695.93	4,028.47	1,367.58	1,270.26	97.32	14.053	
16,900.00	8,289.00	10,689.86	8,305.73	48.21	51.46	92.79	-2,607.47	4,032.57	1,372.78	1,276.76	96.02	14.296	
17,000.00	8,289.00	10,625.58	8,305.88	48.15	50.58	92.79	-2,543.32	4,036.64	1,379.66	1,284.65	95.01	14.522	
17,100.00	8,289.00	10,569.35	8,304.38	48.09	49.81	92.71	-2,487.37	4,042.06	1,389.58	1,295.51	94.07	14.772	
17,200.00	8,289.00	10,505.78	8,301.95	48.05	48.94	92.60	-2,424.37	4,050.15	1,402.48	1,309.40	93.08	15.067	
17,300.00	8,289.00	10,426.87	8,300.34	48.01	47.87	92.51	-2,346.30	4,061.53	1,417.22	1,325.25	91.97	15.409	
17,400.00	8,289.00	10,326.12	8,300.35	47.99	46.52	92.48	-2,246.71	4,076.74	1,432.74	1,342.03	90.72	15.793	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.50 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,500.00	8,289.00	10,175.18	8,300.51	47.99	44.53	92.45	-2,097.16	4,097.12	1,446.90	1,357.78	89.12	16.236	
17,600.00	8,289.00	10,065.68	8,301.34	47.99	43.13	92.47	-1,988.28	4,108.67	1,457.88	1,370.02	87.85	16.594	
17,700.00	8,289.00	9,974.93	8,301.25	48.01	42.00	92.45	-1,898.07	4,118.52	1,469.15	1,382.36	86.79	16.928	
17,800.00	8,289.00	9,878.21	8,300.06	48.04	40.81	92.38	-1,801.98	4,129.46	1,480.85	1,395.12	85.73	17.274	
17,900.00	8,289.00	9,787.60	8,298.04	48.08	39.72	92.28	-1,712.01	4,140.06	1,492.88	1,408.12	84.76	17.614	
18,000.00	8,289.00	9,709.72	8,295.88	48.14	38.80	92.19	-1,634.77	4,149.85	1,505.81	1,421.90	83.92	17.944	
18,100.00	8,289.00	9,566.26	8,291.59	48.21	37.16	92.00	-1,492.49	4,167.60	1,518.68	1,435.99	82.69	18.366	
18,200.00	8,289.00	9,462.53	8,289.49	48.29	36.04	91.90	-1,389.29	4,177.77	1,528.82	1,447.05	81.78	18.695	
18,300.00	8,289.00	9,376.29	8,287.31	48.39	35.14	91.81	-1,303.57	4,186.99	1,539.87	1,458.84	81.03	19.004	
18,400.00	8,289.00	9,294.44	8,284.99	48.50	34.31	91.71	-1,222.30	4,196.47	1,551.81	1,471.46	80.36	19.311	
18,500.00	8,289.00	9,223.80	8,282.23	48.63	33.62	91.60	-1,152.31	4,205.67	1,565.19	1,485.40	79.79	19.616	
18,600.00	8,289.00	9,140.06	8,277.98	48.76	32.82	91.43	-1,069.61	4,218.05	1,580.26	1,501.05	79.21	19.950	
18,700.00	8,289.00	8,969.52	8,276.20	48.92	31.35	91.35	-900.62	4,240.38	1,594.05	1,515.78	78.27	20.365	
18,800.00	8,289.00	8,840.01	8,276.33	49.08	30.38	91.34	-771.71	4,252.66	1,603.97	1,526.34	77.63	20.662	
18,900.00	8,289.00	8,803.90	8,275.05	49.26	30.12	91.29	-735.81	4,256.29	1,614.73	1,537.31	77.42	20.857	
19,000.00	8,289.00	8,760.00	8,272.23	49.46	29.82	91.18	-692.50	4,262.82	1,629.61	1,552.41	77.20	21.109	
19,100.00	8,289.00	8,729.00	8,270.28	50.02	29.61	91.11	-662.07	4,268.43	1,647.96	1,570.43	77.54	21.253	
19,101.33	8,289.00	8,729.00	8,270.28	50.05	29.61	91.11	-662.07	4,268.43	1,648.24	1,570.69	77.55	21.254	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	87.34	55.78	1,202.03	9,862.58				
100.00	100.00	19,907.00	9,811.90	0.28	171.86	87.34	55.78	1,202.03	9,763.33	9,668.50	94.83	102.957	
200.00	200.00	19,907.00	9,811.90	0.63	171.86	87.34	55.78	1,202.03	9,664.10	9,569.19	94.91	101.824	
300.00	300.00	19,907.00	9,811.90	0.99	171.86	87.34	55.78	1,202.03	9,564.89	9,469.89	95.00	100.685	
400.00	400.00	19,907.00	9,811.90	1.35	171.86	87.34	55.78	1,202.03	9,465.69	9,370.60	95.09	99.540	
500.00	500.00	19,907.00	9,811.90	1.71	171.86	87.34	55.78	1,202.03	9,366.51	9,271.31	95.20	98.388	
600.00	600.00	19,907.00	9,811.90	2.07	171.86	87.34	55.78	1,202.03	9,267.35	9,172.04	95.31	97.232	
700.00	700.00	19,907.00	9,811.90	2.43	171.86	87.34	55.78	1,202.03	9,168.21	9,072.77	95.43	96.070	
800.00	800.00	19,907.00	9,811.90	2.79	171.86	87.34	55.78	1,202.03	9,069.08	8,973.52	95.56	94.904	
900.00	900.00	19,907.00	9,811.90	3.14	171.86	87.34	55.78	1,202.03	8,969.98	8,874.28	95.70	93.733	
1,000.00	1,000.00	19,907.00	9,811.90	3.50	171.86	87.34	55.78	1,202.03	8,870.89	8,775.05	95.84	92.558	
1,100.00	1,100.00	19,907.00	9,811.90	3.86	171.86	87.34	55.78	1,202.03	8,771.82	8,675.83	95.99	91.380	
1,200.00	1,200.00	19,907.00	9,811.90	4.22	171.86	87.34	55.78	1,202.03	8,672.78	8,576.63	96.15	90.198	
1,300.00	1,300.00	19,907.00	9,811.90	4.58	171.86	87.34	55.78	1,202.03	8,573.76	8,477.44	96.32	89.014	
1,400.00	1,400.00	19,907.00	9,811.90	4.94	171.86	87.34	55.78	1,202.03	8,474.76	8,378.27	96.49	87.828	
1,500.00	1,500.00	19,907.00	9,811.90	5.29	171.86	87.34	55.78	1,202.03	8,375.79	8,279.11	96.67	86.639	
1,600.00	1,600.00	19,907.00	9,811.90	5.65	171.86	87.34	55.78	1,202.03	8,276.84	8,179.97	96.86	85.449	
1,700.00	1,700.00	19,907.00	9,811.90	6.01	171.86	87.34	55.78	1,202.03	8,177.91	8,080.85	97.06	84.257	
1,800.00	1,800.00	19,907.00	9,811.90	6.37	171.86	87.34	55.78	1,202.03	8,079.01	7,981.75	97.26	83.064	
1,900.00	1,899.98	19,907.00	9,811.90	6.72	171.86	-22.43	55.78	1,202.03	7,979.91	7,882.45	97.46	81.878	
2,000.00	1,999.84	19,907.00	9,811.90	7.06	171.86	-31.12	55.78	1,202.03	7,880.45	7,782.81	97.64	80.713	
2,100.00	2,099.45	19,907.00	9,811.90	7.40	171.86	-48.08	55.78	1,202.03	7,780.73	7,682.95	97.78	79.572	
2,200.00	2,198.70	19,907.00	9,811.90	7.74	171.86	-81.57	55.78	1,202.03	7,680.87	7,582.97	97.90	78.457	
2,300.00	2,297.47	19,907.00	9,811.90	8.09	171.86	-120.63	55.78	1,202.03	7,580.99	7,483.01	97.98	77.369	
2,400.00	2,395.62	19,907.00	9,811.90	8.44	171.86	-142.89	55.78	1,202.03	7,481.22	7,383.18	98.04	76.310	
2,491.84	2,485.13	19,907.00	9,811.90	8.76	171.86	-153.23	55.78	1,202.03	7,389.78	7,291.73	98.06	75.362	
2,500.00	2,493.06	19,907.00	9,811.90	8.79	171.86	-153.23	55.78	1,202.03	7,381.67	7,283.61	98.06	75.280	
2,600.00	2,590.16	19,907.00	9,811.90	9.14	171.86	-153.23	55.78	1,202.03	7,282.26	7,184.20	98.07	74.258	
2,700.00	2,687.25	19,907.00	9,811.90	9.50	171.86	-153.23	55.78	1,202.03	7,182.87	7,084.80	98.08	73.236	
2,800.00	2,784.35	19,907.00	9,811.90	9.86	171.86	-153.23	55.78	1,202.03	7,083.50	6,985.41	98.09	72.212	
2,900.00	2,881.45	19,907.00	9,811.90	10.23	171.86	-153.23	55.78	1,202.03	6,984.15	6,886.04	98.11	71.188	
3,000.00	2,978.55	19,907.00	9,811.90	10.60	171.86	-153.23	55.78	1,202.03	6,884.81	6,786.69	98.13	70.164	
3,100.00	3,075.65	19,907.00	9,811.90	10.96	171.86	-153.23	55.78	1,202.03	6,785.50	6,687.35	98.14	69.139	
3,200.00	3,172.74	19,907.00	9,811.90	11.34	171.86	-153.23	55.78	1,202.03	6,686.20	6,588.04	98.16	68.114	
3,300.00	3,269.84	19,907.00	9,811.90	11.71	171.86	-153.23	55.78	1,202.03	6,586.93	6,488.74	98.18	67.089	
3,400.00	3,366.94	19,907.00	9,811.90	12.08	171.86	-153.23	55.78	1,202.03	6,487.67	6,389.47	98.20	66.064	
3,500.00	3,464.04	19,907.00	9,811.90	12.46	171.86	-153.23	55.78	1,202.03	6,388.44	6,290.22	98.22	65.039	
3,600.00	3,561.14	19,907.00	9,811.90	12.83	171.86	-153.23	55.78	1,202.03	6,289.24	6,190.99	98.25	64.015	
3,700.00	3,658.24	19,907.00	9,811.90	13.21	171.86	-153.23	55.78	1,202.03	6,190.06	6,091.79	98.27	62.991	
3,800.00	3,755.33	19,907.00	9,811.90	13.59	171.86	-153.23	55.78	1,202.03	6,090.91	5,992.62	98.29	61.967	
3,900.00	3,852.43	19,907.00	9,811.90	13.97	171.86	-153.23	55.78	1,202.03	5,991.79	5,893.47	98.32	60.944	
4,000.00	3,949.53	19,907.00	9,811.90	14.35	171.86	-153.23	55.78	1,202.03	5,892.69	5,794.35	98.34	59.922	
4,100.00	4,046.63	19,907.00	9,811.90	14.73	171.86	-153.23	55.78	1,202.03	5,793.63	5,695.26	98.36	58.901	
4,200.00	4,143.73	19,907.00	9,811.90	15.11	171.86	-153.23	55.78	1,202.03	5,694.60	5,596.21	98.39	57.880	
4,300.00	4,240.82	19,907.00	9,811.90	15.50	171.86	-153.23	55.78	1,202.03	5,595.60	5,497.19	98.41	56.861	
4,400.00	4,337.92	19,907.00	9,811.90	15.88	171.86	-153.23	55.78	1,202.03	5,496.64	5,398.21	98.43	55.842	
4,500.00	4,435.02	19,907.00	9,811.90	16.27	171.86	-153.23	55.78	1,202.03	5,397.72	5,299.27	98.45	54.825	
4,600.00	4,532.12	19,907.00	9,811.90	16.65	171.86	-153.23	55.78	1,202.03	5,298.84	5,200.37	98.47	53.809	
4,700.00	4,629.22	19,907.00	9,811.90	17.04	171.86	-153.23	55.78	1,202.03	5,200.00	5,101.51	98.50	52.794	
4,800.00	4,726.31	19,907.00	9,811.90	17.42	171.86	-153.23	55.78	1,202.03	5,101.21	5,002.69	98.51	51.781	
4,900.00	4,823.41	19,907.00	9,811.90	17.81	171.86	-153.23	55.78	1,202.03	5,002.47	4,903.93	98.53	50.769	
5,000.00	4,920.51	19,907.00	9,811.90	18.20	171.86	-153.23	55.78	1,202.03	4,903.77	4,805.22	98.55	49.759	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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
5,100.00	5,017.61	19,907.00	9,811.90	18.58	171.86	-153.23	55.78	1,202.03	4,805.13	4,706.57	98.57	48.750	
5,200.00	5,114.71	19,907.00	9,811.90	18.97	171.86	-153.23	55.78	1,202.03	4,706.55	4,607.97	98.58	47.744	
5,300.00	5,211.80	19,907.00	9,811.90	19.36	171.86	-153.23	55.78	1,202.03	4,608.03	4,509.44	98.59	46.738	
5,400.00	5,308.90	19,907.00	9,811.90	19.75	171.86	-153.23	55.78	1,202.03	4,509.57	4,410.97	98.60	45.735	
5,500.00	5,406.00	19,907.00	9,811.90	20.14	171.86	-153.23	55.78	1,202.03	4,411.19	4,312.57	98.61	44.733	
5,600.00	5,503.10	19,907.00	9,811.90	20.53	171.86	-153.23	55.78	1,202.03	4,312.87	4,214.26	98.62	43.734	
5,700.00	5,600.20	19,907.00	9,811.90	20.91	171.86	-153.23	55.78	1,202.03	4,214.64	4,116.02	98.62	42.736	
5,800.00	5,697.30	19,907.00	9,811.90	21.30	171.86	-153.23	55.78	1,202.03	4,116.49	4,017.87	98.62	41.740	
5,900.00	5,794.39	19,907.00	9,811.90	21.69	171.86	-153.23	55.78	1,202.03	4,018.44	3,919.82	98.62	40.747	
6,000.00	5,891.49	19,907.00	9,811.90	22.09	171.86	-153.23	55.78	1,202.03	3,920.48	3,821.86	98.62	39.755	
6,100.00	5,988.59	19,907.00	9,811.90	22.48	171.86	-153.23	55.78	1,202.03	3,822.62	3,724.02	98.61	38.765	
6,200.00	6,085.69	19,907.00	9,811.90	22.87	171.86	-153.23	55.78	1,202.03	3,724.89	3,626.29	98.60	37.778	
6,300.00	6,182.79	19,907.00	9,811.90	23.26	171.86	-153.23	55.78	1,202.03	3,627.27	3,528.68	98.59	36.793	
6,400.00	6,279.88	19,907.00	9,811.90	23.65	171.86	-153.23	55.78	1,202.03	3,529.79	3,431.22	98.57	35.810	
6,500.00	6,376.98	19,907.00	9,811.90	24.04	171.86	-153.23	55.78	1,202.03	3,432.45	3,333.90	98.55	34.829	
6,600.00	6,474.08	19,907.00	9,811.90	24.43	171.86	-153.23	55.78	1,202.03	3,335.27	3,236.74	98.53	33.850	
6,700.00	6,571.18	19,907.00	9,811.90	24.82	171.86	-153.23	55.78	1,202.03	3,238.26	3,139.76	98.51	32.873	
6,800.00	6,668.28	19,907.00	9,811.90	25.22	171.86	-153.23	55.78	1,202.03	3,141.44	3,042.96	98.48	31.898	
6,900.00	6,765.37	19,907.00	9,811.90	25.61	171.86	-153.23	55.78	1,202.03	3,044.83	2,946.37	98.46	30.925	
7,000.00	6,862.47	19,907.00	9,811.90	26.00	171.86	-153.23	55.78	1,202.03	2,948.44	2,850.01	98.43	29.953	
7,100.00	6,959.57	19,907.00	9,811.90	26.39	171.86	-153.23	55.78	1,202.03	2,852.30	2,753.89	98.41	28.984	
7,200.00	7,056.67	19,907.00	9,811.90	26.78	171.86	-153.23	55.78	1,202.03	2,756.44	2,658.05	98.39	28.016	
7,300.00	7,153.77	19,907.00	9,811.90	27.18	171.86	-153.23	55.78	1,202.03	2,660.88	2,562.50	98.37	27.049	
7,400.00	7,250.86	19,907.00	9,811.90	27.57	171.86	-153.23	55.78	1,202.03	2,565.65	2,467.29	98.36	26.083	
7,500.00	7,347.96	19,907.00	9,811.90	27.96	171.86	-153.23	55.78	1,202.03	2,470.81	2,372.44	98.37	25.118	
7,600.00	7,445.06	19,907.00	9,811.90	28.36	171.86	-153.23	55.78	1,202.03	2,376.39	2,278.00	98.39	24.153	
7,700.00	7,542.16	19,907.00	9,811.90	28.75	171.86	-153.23	55.78	1,202.03	2,282.44	2,184.01	98.43	23.188	
7,800.00	7,639.26	19,907.00	9,811.90	29.14	171.86	-153.23	55.78	1,202.03	2,189.03	2,090.52	98.51	22.222	
7,900.00	7,736.36	19,907.00	9,811.90	29.54	171.86	-153.23	55.78	1,202.03	2,096.23	1,997.60	98.62	21.255	
7,902.86	7,739.13	19,907.00	9,811.90	29.55	171.86	-153.23	55.78	1,202.03	2,093.58	1,994.96	98.63	21.228	
7,950.00	7,784.76	19,907.00	9,811.90	29.73	171.86	-162.48	55.78	1,202.03	2,050.59	1,951.90	98.69	20.778	
8,000.00	7,832.63	19,907.00	9,811.90	29.93	171.86	-169.91	55.78	1,202.03	2,006.56	1,907.81	98.75	20.320	
8,050.00	7,879.58	19,907.00	9,811.90	30.12	171.86	-174.80	55.78	1,202.03	1,964.59	1,865.79	98.80	19.885	
8,100.00	7,925.27	19,907.00	9,811.90	30.31	171.86	-177.95	55.78	1,202.03	1,925.14	1,826.30	98.84	19.478	
8,150.00	7,969.35	19,907.00	9,811.90	30.49	171.86	179.96	55.78	1,202.03	1,888.69	1,789.82	98.87	19.104	
8,200.00	8,011.47	19,907.00	9,811.90	30.67	171.86	178.51	55.78	1,202.03	1,855.69	1,756.81	98.88	18.768	
8,250.00	8,051.32	19,907.00	9,811.90	30.83	171.86	177.45	55.78	1,202.03	1,826.58	1,727.72	98.86	18.476	
8,300.00	8,088.60	19,907.00	9,811.90	30.99	171.86	176.61	55.78	1,202.03	1,801.80	1,702.98	98.82	18.233	
8,350.00	8,123.02	19,907.00	9,811.90	31.14	171.86	175.92	55.78	1,202.03	1,781.69	1,682.96	98.73	18.045	
8,400.00	8,154.32	19,907.00	9,811.90	31.28	171.86	175.30	55.78	1,202.03	1,766.59	1,667.99	98.60	17.916	
8,450.00	8,182.27	19,907.00	9,811.90	31.42	171.86	174.71	55.78	1,202.03	1,756.74	1,658.32	98.41	17.851	
8,500.00	8,206.64	19,907.00	9,811.90	31.54	171.86	174.12	55.78	1,202.03	1,752.29	1,654.13	98.16	17.851	
8,515.55	8,213.46	19,907.00	9,811.90	31.58	171.86	173.93	55.78	1,202.03	1,752.03	1,653.96	98.07	17.865	CC, ES
8,550.00	8,227.26	19,907.00	9,811.90	31.66	171.86	173.50	55.78	1,202.03	1,753.33	1,655.49	97.84	17.919	
8,600.00	8,243.96	19,907.00	9,811.90	31.78	171.86	172.82	55.78	1,202.03	1,759.84	1,662.38	97.46	18.057	
8,621.67	8,249.95	19,907.00	9,811.90	31.83	171.86	172.50	55.78	1,202.03	1,764.33	1,667.05	97.28	18.137	
8,700.00	8,267.63	19,907.00	9,811.90	32.00	171.86	172.35	55.78	1,202.03	1,786.55	1,690.01	96.54	18.506	
8,800.00	8,282.55	19,907.00	9,811.90	32.23	171.86	172.05	55.78	1,202.03	1,826.51	1,731.01	95.50	19.125	
8,900.00	8,288.79	19,907.00	9,811.90	32.46	171.86	171.62	55.78	1,202.03	1,878.44	1,784.03	94.41	19.896	
8,921.67	8,289.00	19,907.00	9,811.90	32.51	171.86	171.50	55.78	1,202.03	1,891.14	1,796.96	94.18	20.081	
9,000.00	8,289.00	19,907.00	9,811.90	32.69	171.86	171.50	55.78	1,202.03	1,938.96	1,845.65	93.30	20.781	
9,100.00	8,289.00	19,907.00	9,811.90	32.94	171.86	171.50	55.78	1,202.03	2,002.80	1,910.61	92.19	21.726	

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 3H
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 3H	**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
9,200.00	8,289.00	19,907.00	9,811.90	33.20	171.86	171.50	55.78	1,202.03	2,069.50	1,978.42	91.08	22.722	
9,300.00	8,289.00	19,907.00	9,811.90	33.48	171.86	171.50	55.78	1,202.03	2,138.80	2,048.81	89.99	23.767	
9,400.00	8,289.00	19,907.00	9,811.90	33.77	171.86	171.50	55.78	1,202.03	2,210.45	2,121.52	88.93	24.856	
9,500.00	8,289.00	19,907.00	9,811.90	34.07	171.86	171.50	55.78	1,202.03	2,284.23	2,196.33	87.91	25.985	
9,600.00	8,289.00	19,907.00	9,811.90	34.38	171.86	171.50	55.78	1,202.03	2,359.95	2,273.03	86.92	27.151	
9,700.00	8,289.00	19,907.00	9,811.90	34.70	171.86	171.50	55.78	1,202.03	2,437.41	2,351.43	85.98	28.349	
9,800.00	8,289.00	19,907.00	9,811.90	35.04	171.86	171.50	55.78	1,202.03	2,516.47	2,431.39	85.08	29.578	
9,900.00	8,289.00	19,907.00	9,811.90	35.39	171.86	171.50	55.78	1,202.03	2,596.97	2,512.74	84.23	30.833	
10,000.00	8,289.00	19,907.00	9,811.90	35.75	171.86	171.50	55.78	1,202.03	2,678.78	2,595.36	83.42	32.113	
10,100.00	8,289.00	19,907.00	9,811.90	36.12	171.86	171.50	55.78	1,202.03	2,761.79	2,679.14	82.65	33.414	
10,200.00	8,289.00	19,907.00	9,811.90	36.51	171.86	171.50	55.78	1,202.03	2,845.90	2,763.97	81.93	34.735	
10,300.00	8,289.00	19,907.00	9,811.90	36.90	171.86	171.50	55.78	1,202.03	2,931.00	2,849.75	81.25	36.073	
10,400.00	8,289.00	19,907.00	9,811.90	37.31	171.86	171.50	55.78	1,202.03	3,017.02	2,936.41	80.61	37.426	
10,500.00	8,289.00	19,907.00	9,811.90	37.72	171.86	171.50	55.78	1,202.03	3,103.87	3,023.86	80.01	38.793	
10,600.00	8,289.00	19,907.00	9,811.90	38.15	171.86	171.50	55.78	1,202.03	3,191.50	3,112.05	79.45	40.171	
10,700.00	8,289.00	19,907.00	9,811.90	38.58	171.86	171.50	55.78	1,202.03	3,279.83	3,200.92	78.92	41.561	
10,800.00	8,289.00	19,907.00	9,811.90	39.03	171.86	171.50	55.78	1,202.03	3,368.82	3,290.40	78.42	42.959	
10,900.00	8,289.00	19,907.00	9,811.90	39.48	171.86	171.50	55.78	1,202.03	3,458.41	3,380.45	77.95	44.365	
11,000.00	8,289.00	19,907.00	9,811.90	39.94	171.86	171.50	55.78	1,202.03	3,548.55	3,471.03	77.52	45.778	
11,100.00	8,289.00	19,907.00	9,811.90	40.41	171.86	171.50	55.78	1,202.03	3,639.21	3,562.10	77.11	47.196	
11,200.00	8,289.00	19,907.00	9,811.90	40.89	171.86	171.50	55.78	1,202.03	3,730.34	3,653.62	76.72	48.620	
11,300.00	8,289.00	19,907.00	9,811.90	41.38	171.86	171.50	55.78	1,202.03	3,821.92	3,745.56	76.37	50.047	
11,400.00	8,289.00	19,907.00	9,811.90	41.88	171.86	171.50	55.78	1,202.03	3,913.91	3,837.88	76.03	51.478	
11,500.00	8,289.00	19,907.00	9,811.90	42.38	171.86	171.50	55.78	1,202.03	4,006.29	3,930.57	75.72	52.911	
11,600.00	8,289.00	19,907.00	9,811.90	42.89	171.86	171.50	55.78	1,202.03	4,099.02	4,023.60	75.42	54.347	
11,700.00	8,289.00	19,907.00	9,811.90	43.41	171.86	171.50	55.78	1,202.03	4,192.09	4,116.94	75.15	55.784	
11,800.00	8,289.00	19,907.00	9,811.90	43.93	171.86	171.50	55.78	1,202.03	4,285.47	4,210.58	74.89	57.221	
11,900.00	8,289.00	19,907.00	9,811.90	44.46	171.86	171.50	55.78	1,202.03	4,379.14	4,304.49	74.65	58.660	
12,000.00	8,289.00	19,907.00	9,811.90	45.00	171.86	171.50	55.78	1,202.03	4,473.09	4,398.66	74.43	60.098	
12,100.00	8,289.00	19,907.00	9,811.90	45.55	171.86	171.50	55.78	1,202.03	4,567.29	4,493.07	74.22	61.537	
12,200.00	8,289.00	19,907.00	9,811.90	46.10	171.86	171.50	55.78	1,202.03	4,661.74	4,587.71	74.03	62.974	
12,300.00	8,289.00	19,907.00	9,811.90	46.65	171.86	171.50	55.78	1,202.03	4,756.41	4,682.56	73.84	64.411	
12,400.00	8,289.00	19,907.00	9,811.90	47.21	171.86	171.50	55.78	1,202.03	4,851.29	4,777.62	73.68	65.847	
12,500.00	8,289.00	19,907.00	9,811.90	47.78	171.86	171.50	55.78	1,202.03	4,946.38	4,872.86	73.52	67.281	
12,600.00	8,289.00	19,907.00	9,811.90	48.35	171.86	171.50	55.78	1,202.03	5,041.66	4,968.29	73.37	68.713	
12,688.51	8,289.00	19,907.00	9,811.90	48.86	171.86	171.50	55.78	1,202.03	5,126.13	5,052.88	73.25	69.980	
12,700.00	8,289.00	19,907.00	9,811.90	48.93	171.86	174.99	55.78	1,202.03	5,137.12	5,063.88	73.24	70.143	
12,750.00	8,289.00	19,907.00	9,811.90	49.23	171.86	-169.63	55.78	1,202.03	5,184.94	5,111.72	73.22	70.814	
12,800.00	8,289.00	19,907.00	9,811.90	49.53	171.86	-155.54	55.78	1,202.03	5,232.59	5,159.32	73.27	71.419	
12,850.00	8,289.00	19,907.00	9,811.90	49.84	171.86	-143.99	55.78	1,202.03	5,279.75	5,206.37	73.38	71.954	
12,900.00	8,289.00	19,907.00	9,811.90	50.15	171.86	-135.11	55.78	1,202.03	5,326.12	5,252.57	73.55	72.412	
12,950.00	8,289.00	19,907.00	9,811.90	50.47	171.86	-128.40	55.78	1,202.03	5,371.42	5,297.62	73.80	72.787	
13,000.00	8,289.00	19,907.00	9,811.90	50.79	171.86	-123.31	55.78	1,202.03	5,415.36	5,341.25	74.11	73.073	
13,050.00	8,289.00	19,907.00	9,811.90	51.10	171.86	-119.41	55.78	1,202.03	5,457.69	5,383.19	74.49	73.267	
13,100.00	8,289.00	19,907.00	9,811.90	51.40	171.86	-116.37	55.78	1,202.03	5,498.15	5,423.21	74.94	73.364	
13,150.00	8,289.00	19,907.00	9,811.90	51.70	171.86	-113.97	55.78	1,202.03	5,536.53	5,461.07	75.47	73.363	
13,200.00	8,289.00	19,907.00	9,811.90	51.99	171.86	-112.05	55.78	1,202.03	5,572.61	5,496.55	76.06	73.263	
13,250.00	8,289.00	19,907.00	9,811.90	52.26	171.86	-110.50	55.78	1,202.03	5,606.19	5,529.46	76.73	73.064	
13,300.00	8,289.00	19,907.00	9,811.90	52.52	171.86	-109.24	55.78	1,202.03	5,637.09	5,559.62	77.47	72.767	
13,350.00	8,289.00	19,907.00	9,811.90	52.77	171.86	-108.22	55.78	1,202.03	5,665.15	5,586.87	78.27	72.377	
13,400.00	8,289.00	19,907.00	9,811.90	53.00	171.86	-107.38	55.78	1,202.03	5,690.22	5,611.07	79.14	71.897	
13,450.00	8,289.00	19,907.00	9,811.90	53.20	171.86	-106.71	55.78	1,202.03	5,712.17	5,632.09	80.08	71.333	

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 3H
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 3H	**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
13,500.00	8,289.00	19,907.00	9,811.90	53.39	171.86	-106.17	55.78	1,202.03	5,730.89	5,649.82	81.07	70.692	
13,550.00	8,289.00	19,907.00	9,811.90	53.55	171.86	-105.75	55.78	1,202.03	5,746.29	5,664.17	82.11	69.981	
13,600.00	8,289.00	19,907.00	9,811.90	53.69	171.86	-105.44	55.78	1,202.03	5,758.28	5,675.08	83.20	69.207	
13,650.00	8,289.00	19,907.00	9,811.90	53.80	171.86	-105.22	55.78	1,202.03	5,766.82	5,682.48	84.34	68.378	
13,700.00	8,289.00	19,907.00	9,811.90	53.89	171.86	-105.10	55.78	1,202.03	5,771.86	5,686.35	85.51	67.503	
13,750.00	8,289.00	19,907.00	9,811.90	53.96	171.86	-105.06	55.78	1,202.03	5,773.36	5,686.66	86.70	66.590	
13,800.00	8,289.00	19,907.00	9,811.90	54.00	171.86	-105.11	55.78	1,202.03	5,771.34	5,683.42	87.92	65.647	
13,850.00	8,289.00	19,907.00	9,811.90	54.02	171.86	-105.25	55.78	1,202.03	5,765.78	5,676.64	89.14	64.681	
13,900.00	8,289.00	19,907.00	9,811.90	54.01	171.86	-105.48	55.78	1,202.03	5,756.74	5,666.36	90.37	63.700	
13,950.00	8,289.00	19,907.00	9,811.90	53.99	171.86	-105.80	55.78	1,202.03	5,744.23	5,652.64	91.60	62.710	
14,000.00	8,289.00	19,907.00	9,811.90	53.94	171.86	-106.24	55.78	1,202.03	5,728.34	5,635.53	92.81	61.719	
14,050.00	8,289.00	19,907.00	9,811.90	53.88	171.86	-106.80	55.78	1,202.03	5,709.14	5,615.13	94.01	60.731	
14,100.00	8,289.00	19,907.00	9,811.90	53.80	171.86	-107.49	55.78	1,202.03	5,686.72	5,591.55	95.17	59.752	
14,150.00	8,289.00	19,907.00	9,811.90	53.70	171.86	-108.35	55.78	1,202.03	5,661.21	5,564.91	96.30	58.787	
14,200.00	8,289.00	19,907.00	9,811.90	53.59	171.86	-109.41	55.78	1,202.03	5,632.72	5,535.34	97.39	57.840	
14,250.00	8,289.00	19,907.00	9,811.90	53.47	171.86	-110.71	55.78	1,202.03	5,601.42	5,503.00	98.42	56.914	
14,300.00	8,289.00	19,907.00	9,811.90	53.33	171.86	-112.31	55.78	1,202.03	5,567.46	5,468.07	99.39	56.014	
14,350.00	8,289.00	19,907.00	9,811.90	53.20	171.86	-114.29	55.78	1,202.03	5,531.03	5,430.73	100.30	55.142	
14,400.00	8,289.00	19,907.00	9,811.90	53.05	171.86	-116.78	55.78	1,202.03	5,492.33	5,391.19	101.14	54.302	
14,450.00	8,289.00	19,907.00	9,811.90	52.91	171.86	-119.92	55.78	1,202.03	5,451.58	5,349.67	101.91	53.496	
14,500.00	8,289.00	19,907.00	9,811.90	52.76	171.86	-123.98	55.78	1,202.03	5,409.00	5,306.41	102.59	52.725	
14,530.51	8,289.00	19,907.00	9,811.90	52.67	171.86	-127.03	55.78	1,202.03	5,382.23	5,279.27	102.96	52.274	
14,600.00	8,289.00	19,907.00	9,811.90	52.46	171.86	-129.40	55.78	1,202.03	5,320.29	5,216.54	103.75	51.279	
14,700.00	8,289.00	19,907.00	9,811.90	52.18	171.86	-133.26	55.78	1,202.03	5,230.07	5,125.25	104.82	49.894	
14,762.01	8,289.00	19,907.00	9,811.90	52.01	171.86	-135.97	55.78	1,202.03	5,173.53	5,068.09	105.45	49.063	
14,800.00	8,289.00	19,907.00	9,811.90	51.90	171.86	-135.97	55.78	1,202.03	5,138.79	5,032.97	105.82	48.561	
14,900.00	8,289.00	19,907.00	9,811.90	51.64	171.86	-135.97	55.78	1,202.03	5,047.57	4,940.73	106.83	47.247	
15,000.00	8,289.00	19,907.00	9,811.90	51.38	171.86	-135.97	55.78	1,202.03	4,956.68	4,848.79	107.89	45.941	
15,100.00	8,289.00	19,907.00	9,811.90	51.14	171.86	-135.97	55.78	1,202.03	4,866.15	4,757.15	109.00	44.644	
15,200.00	8,289.00	19,907.00	9,811.90	50.90	171.86	-135.97	55.78	1,202.03	4,776.00	4,665.84	110.15	43.358	
15,300.00	8,289.00	19,907.00	9,811.90	50.66	171.86	-135.97	55.78	1,202.03	4,686.24	4,574.89	111.36	42.083	
15,400.00	8,289.00	19,907.00	9,811.90	50.44	171.86	-135.97	55.78	1,202.03	4,596.92	4,484.30	112.62	40.819	
15,500.00	8,289.00	19,907.00	9,811.90	50.23	171.86	-135.97	55.78	1,202.03	4,508.03	4,394.10	113.93	39.568	
15,600.00	8,289.00	19,907.00	9,811.90	50.02	171.86	-135.97	55.78	1,202.03	4,419.63	4,304.32	115.31	38.330	
15,700.00	8,289.00	19,907.00	9,811.90	49.82	171.86	-135.97	55.78	1,202.03	4,331.73	4,214.99	116.74	37.106	
15,800.00	8,289.00	19,907.00	9,811.90	49.64	171.86	-135.97	55.78	1,202.03	4,244.36	4,126.12	118.24	35.896	
15,900.00	8,289.00	19,907.00	9,811.90	49.46	171.86	-135.97	55.78	1,202.03	4,157.56	4,037.76	119.81	34.702	
16,000.00	8,289.00	19,907.00	9,811.90	49.29	171.86	-135.97	55.78	1,202.03	4,071.37	3,949.93	121.44	33.525	
16,100.00	8,289.00	19,907.00	9,811.90	49.13	171.86	-135.97	55.78	1,202.03	3,985.83	3,862.68	123.15	32.365	
16,200.00	8,289.00	19,907.00	9,811.90	48.98	171.86	-135.97	55.78	1,202.03	3,900.97	3,776.03	124.94	31.223	
16,300.00	8,289.00	19,907.00	9,811.90	48.84	171.86	-135.97	55.78	1,202.03	3,816.85	3,690.05	126.80	30.101	
16,400.00	8,289.00	19,907.00	9,811.90	48.71	171.86	-135.97	55.78	1,202.03	3,733.51	3,604.76	128.75	28.999	
16,500.00	8,289.00	19,907.00	9,811.90	48.59	171.86	-135.97	55.78	1,202.03	3,651.00	3,520.22	130.78	27.918	
16,600.00	8,289.00	19,907.00	9,811.90	48.48	171.86	-135.97	55.78	1,202.03	3,569.39	3,436.50	132.89	26.859	
16,700.00	8,289.00	19,907.00	9,811.90	48.38	171.86	-135.97	55.78	1,202.03	3,488.74	3,353.64	135.10	25.824	
16,800.00	8,289.00	19,907.00	9,811.90	48.29	171.86	-135.97	55.78	1,202.03	3,409.11	3,271.71	137.40	24.812	
16,900.00	8,289.00	19,907.00	9,811.90	48.21	171.86	-135.97	55.78	1,202.03	3,330.58	3,190.79	139.79	23.826	
17,000.00	8,289.00	19,907.00	9,811.90	48.15	171.86	-135.97	55.78	1,202.03	3,253.23	3,110.96	142.27	22.866	
17,100.00	8,289.00	19,907.00	9,811.90	48.09	171.86	-135.97	55.78	1,202.03	3,177.15	3,032.29	144.85	21.934	
17,200.00	8,289.00	19,907.00	9,811.90	48.05	171.86	-135.97	55.78	1,202.03	3,102.42	2,954.89	147.53	21.030	
17,300.00	8,289.00	19,907.00	9,811.90	48.01	171.86	-135.97	55.78	1,202.03	3,029.15	2,878.86	150.29	20.155	
17,400.00	8,289.00	19,907.00	9,811.90	47.99	171.86	-135.97	55.78	1,202.03	2,957.45	2,804.29	153.15	19.310	

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 3H
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 3H	**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
17,500.00	8,289.00	19,907.00	9,811.90	47.99	171.86	-135.97	55.78	1,202.03	2,887.43	2,731.33	156.10	18.497	
17,600.00	8,289.00	19,907.00	9,811.90	47.99	171.86	-135.97	55.78	1,202.03	2,819.22	2,660.09	159.13	17.717	
17,700.00	8,289.00	19,907.00	9,811.90	48.01	171.86	-135.97	55.78	1,202.03	2,752.95	2,590.72	162.23	16.970	
17,800.00	8,289.00	19,907.00	9,811.90	48.04	171.86	-135.97	55.78	1,202.03	2,688.77	2,523.37	165.39	16.257	
17,900.00	8,289.00	19,907.00	9,811.90	48.08	171.86	-135.97	55.78	1,202.03	2,626.83	2,458.22	168.61	15.579	
18,000.00	8,289.00	19,907.00	9,811.90	48.14	171.86	-135.97	55.78	1,202.03	2,567.29	2,395.42	171.86	14.938	
18,100.00	8,289.00	19,907.00	9,811.90	48.21	171.86	-135.97	55.78	1,202.03	2,510.32	2,335.19	175.13	14.334	
18,200.00	8,289.00	19,907.00	9,811.90	48.29	171.86	-135.97	55.78	1,202.03	2,456.10	2,277.70	178.40	13.767	
18,300.00	8,289.00	19,907.00	9,811.90	48.39	171.86	-135.97	55.78	1,202.03	2,404.83	2,223.19	181.63	13.240	
18,400.00	8,289.00	19,907.00	9,811.90	48.50	171.86	-135.97	55.78	1,202.03	2,356.68	2,171.86	184.81	12.752	
18,500.00	8,289.00	19,907.00	9,811.90	48.63	171.86	-135.97	55.78	1,202.03	2,311.85	2,123.96	187.90	12.304	
18,600.00	8,289.00	19,907.00	9,811.90	48.76	171.86	-135.97	55.78	1,202.03	2,270.55	2,079.70	190.86	11.897	
18,700.00	8,289.00	19,907.00	9,811.90	48.92	171.86	-135.97	55.78	1,202.03	2,232.97	2,039.32	193.65	11.531	
18,800.00	8,289.00	19,907.00	9,811.90	49.08	171.86	-135.97	55.78	1,202.03	2,199.30	2,003.05	196.24	11.207	
18,900.00	8,289.00	19,907.00	9,811.90	49.26	171.86	-135.97	55.78	1,202.03	2,169.71	1,971.12	198.59	10.926	
19,000.00	8,289.00	19,907.00	9,811.90	49.46	171.86	-135.97	55.78	1,202.03	2,144.38	1,943.74	200.65	10.687	
19,100.00	8,289.00	19,907.00	9,811.90	50.02	171.86	-135.97	55.78	1,202.03	2,123.47	1,921.40	202.08	10.508	
19,101.33	8,289.00	19,907.00	9,811.90	50.05	171.86	-135.97	55.78	1,202.03	2,123.22	1,921.13	202.09	10.506	SF

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.34	0.23	19.99	19.99				
100.00	100.00	100.00	100.00	0.28	0.28	89.34	0.23	19.99	19.99	19.44	0.55	36.213	
200.00	200.00	200.00	200.00	0.63	0.63	89.34	0.23	19.99	19.99	18.72	1.27	15.754	
300.00	300.00	300.00	300.00	0.99	0.99	89.34	0.23	19.99	19.99	18.01	1.99	10.066	
400.00	400.00	400.00	400.00	1.35	1.35	89.34	0.23	19.99	19.99	17.29	2.70	7.396	
500.00	500.00	500.00	500.00	1.71	1.71	89.34	0.23	19.99	19.99	16.57	3.42	5.846	CC, ES
600.00	600.00	599.29	599.27	2.07	2.06	90.52	-0.20	21.66	21.67	17.55	4.12	5.255	
700.00	700.00	698.34	698.18	2.43	2.40	93.15	-1.47	26.64	26.74	21.92	4.82	5.550	
800.00	800.00	797.49	796.99	2.79	2.75	95.77	-3.49	34.56	34.87	29.35	5.52	6.321	
900.00	900.00	897.11	896.23	3.14	3.09	97.47	-5.64	42.98	43.51	37.29	6.22	6.992	
1,000.00	1,000.00	996.73	995.48	3.50	3.45	98.61	-7.79	51.39	52.17	45.24	6.93	7.528	
1,100.00	1,100.00	1,094.38	1,092.61	3.86	3.79	99.71	-10.44	61.04	62.36	54.74	7.62	8.183	
1,200.00	1,200.00	1,191.17	1,188.49	4.22	4.14	100.96	-14.26	73.63	75.88	67.58	8.30	9.140	
1,300.00	1,300.00	1,286.95	1,282.89	4.58	4.49	102.17	-19.21	89.06	92.70	83.73	8.97	10.333	
1,400.00	1,400.00	1,381.55	1,375.54	4.94	4.84	103.25	-25.23	107.16	112.78	103.15	9.63	11.713	
1,500.00	1,500.00	1,477.59	1,469.07	5.29	5.20	104.16	-32.24	127.83	135.41	125.10	10.31	13.128	
1,600.00	1,600.00	1,574.93	1,563.81	5.65	5.56	104.82	-39.42	148.95	158.26	147.24	11.03	14.354	
1,700.00	1,700.00	1,672.27	1,658.56	6.01	5.93	105.32	-46.59	170.07	181.13	169.40	11.74	15.429	
1,800.00	1,800.00	1,769.61	1,753.31	6.37	6.30	105.71	-53.77	191.18	204.02	191.56	12.46	16.378	
1,900.00	1,899.98	1,867.33	1,848.43	6.72	6.67	1.30	-60.97	212.39	225.20	212.04	13.16	17.108	
2,000.00	1,999.84	1,965.72	1,944.21	7.06	7.05	1.57	-68.22	233.74	242.97	229.10	13.87	17.524	
2,100.00	2,099.45	2,064.68	2,040.53	7.40	7.43	1.84	-75.52	255.21	257.30	242.72	14.57	17.653	
2,200.00	2,198.70	2,164.07	2,137.28	7.74	7.81	2.10	-82.84	276.77	268.17	252.88	15.29	17.537	
2,300.00	2,297.47	2,263.78	2,234.34	8.09	8.20	2.37	-90.19	298.41	275.58	259.56	16.01	17.208	
2,400.00	2,395.62	2,363.69	2,331.59	8.44	8.59	2.67	-97.56	320.08	279.51	262.77	16.74	16.695	
2,491.84	2,485.13	2,455.51	2,420.97	8.76	8.94	2.97	-104.32	340.01	280.06	262.64	17.41	16.081	
2,500.00	2,493.06	2,463.67	2,428.91	8.79	8.97	2.99	-104.93	341.78	279.98	262.50	17.48	16.022	
2,600.00	2,590.16	2,563.65	2,526.23	9.14	9.36	3.34	-112.29	363.47	278.98	260.77	18.21	15.319	
2,700.00	2,687.25	2,663.63	2,623.55	9.50	9.75	3.68	-119.66	385.16	278.00	259.05	18.95	14.668	
2,800.00	2,784.35	2,763.62	2,720.87	9.86	10.14	4.03	-127.03	406.86	277.03	257.33	19.70	14.064	
2,900.00	2,881.45	2,863.60	2,818.19	10.23	10.53	4.38	-134.40	428.55	276.06	255.62	20.44	13.503	
3,000.00	2,978.55	2,963.58	2,915.51	10.60	10.92	4.73	-141.77	450.24	275.11	253.91	21.20	12.980	
3,100.00	3,075.65	3,063.56	3,012.83	10.96	11.31	5.09	-149.14	471.94	274.17	252.22	21.95	12.491	
3,200.00	3,172.74	3,163.54	3,110.15	11.34	11.70	5.44	-156.51	493.63	273.24	250.53	22.70	12.035	
3,300.00	3,269.84	3,263.52	3,207.48	11.71	12.09	5.80	-163.88	515.32	272.31	248.85	23.46	11.607	
3,400.00	3,366.94	3,363.50	3,304.80	12.08	12.48	6.17	-171.25	537.02	271.40	247.18	24.22	11.205	
3,500.00	3,464.04	3,463.48	3,402.12	12.46	12.87	6.53	-178.62	558.71	270.50	245.52	24.98	10.828	
3,600.00	3,561.14	3,563.46	3,499.44	12.83	13.26	6.90	-185.99	580.40	269.62	243.87	25.75	10.472	
3,700.00	3,658.24	3,663.45	3,596.76	13.21	13.65	7.27	-193.36	602.10	268.74	242.23	26.51	10.138	
3,800.00	3,755.33	3,763.43	3,694.08	13.59	14.04	7.64	-200.73	623.79	267.87	240.60	27.27	9.821	
3,900.00	3,852.43	3,863.41	3,791.40	13.97	14.43	8.01	-208.10	645.48	267.02	238.98	28.04	9.522	
4,000.00	3,949.53	3,963.39	3,888.72	14.35	14.83	8.39	-215.47	667.18	266.17	237.37	28.81	9.239	
4,100.00	4,046.63	4,063.37	3,986.04	14.73	15.22	8.77	-222.84	688.87	265.34	235.77	29.58	8.971	
4,200.00	4,143.73	4,163.35	4,083.36	15.11	15.61	9.15	-230.21	710.56	264.52	234.18	30.35	8.717	
4,300.00	4,240.82	4,263.33	4,180.68	15.50	16.00	9.54	-237.58	732.25	263.72	232.60	31.12	8.475	
4,400.00	4,337.92	4,363.31	4,278.00	15.88	16.39	9.92	-244.95	753.95	262.92	231.03	31.89	8.245	
4,500.00	4,435.02	4,463.29	4,375.32	16.27	16.79	10.31	-252.32	775.64	262.13	229.48	32.66	8.027	
4,600.00	4,532.12	4,563.27	4,472.64	16.65	17.18	10.70	-259.68	797.33	261.36	227.93	33.43	7.818	
4,700.00	4,629.22	4,663.26	4,569.96	17.04	17.57	11.09	-267.05	819.03	260.60	226.40	34.20	7.620	
4,800.00	4,726.31	4,763.24	4,667.29	17.42	17.96	11.49	-274.42	840.72	259.86	224.88	34.97	7.430	
4,900.00	4,823.41	4,863.22	4,764.61	17.81	18.36	11.89	-281.79	862.41	259.12	223.37	35.75	7.248	
5,000.00	4,920.51	4,963.20	4,861.93	18.20	18.75	12.29	-289.16	884.11	258.40	221.88	36.52	7.075	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,017.61	5,063.18	4,959.25	18.58	19.14	12.69	-296.53	905.80	257.69	220.39	37.30	6.909	
5,200.00	5,114.71	5,163.16	5,056.57	18.97	19.54	13.09	-303.90	927.49	256.99	218.92	38.07	6.750	
5,300.00	5,211.80	5,263.14	5,153.89	19.36	19.93	13.50	-311.27	949.19	256.31	217.46	38.85	6.598	
5,400.00	5,308.90	5,363.12	5,251.21	19.75	20.32	13.91	-318.64	970.88	255.64	216.02	39.62	6.452	
5,500.00	5,406.00	5,463.10	5,348.53	20.14	20.72	14.32	-326.01	992.57	254.98	214.58	40.40	6.312	
5,600.00	5,503.10	5,563.09	5,445.85	20.53	21.11	14.73	-333.38	1,014.27	254.33	213.16	41.17	6.177	
5,700.00	5,600.20	5,663.07	5,543.17	20.91	21.50	15.15	-340.75	1,035.96	253.70	211.75	41.95	6.048	
5,800.00	5,697.30	5,763.05	5,640.49	21.30	21.89	15.56	-348.12	1,057.65	253.08	210.36	42.72	5.924	
5,900.00	5,794.39	5,863.03	5,737.81	21.69	22.29	15.98	-355.49	1,079.34	252.48	208.98	43.50	5.804	
6,000.00	5,891.49	5,963.01	5,835.13	22.09	22.68	16.40	-362.86	1,101.04	251.89	207.61	44.27	5.689	
6,100.00	5,988.59	6,062.99	5,932.45	22.48	23.07	16.83	-370.23	1,122.73	251.31	206.26	45.05	5.578	
6,200.00	6,085.69	6,162.97	6,029.77	22.87	23.47	17.25	-377.60	1,144.42	250.74	204.92	45.83	5.471	
6,300.00	6,182.79	6,262.95	6,127.10	23.26	23.86	17.68	-384.97	1,166.12	250.19	203.59	46.60	5.369	
6,400.00	6,279.88	6,362.93	6,224.42	23.65	24.26	18.11	-392.34	1,187.81	249.66	202.28	47.38	5.269	
6,500.00	6,376.98	6,462.92	6,321.74	24.04	24.65	18.54	-399.70	1,209.50	249.14	200.98	48.16	5.173	
6,600.00	6,474.08	6,562.90	6,419.06	24.43	25.04	18.97	-407.07	1,231.20	248.63	199.69	48.93	5.081	
6,700.00	6,571.18	6,662.88	6,516.38	24.82	25.44	19.40	-414.44	1,252.89	248.13	198.42	49.71	4.992	
6,800.00	6,668.28	6,762.86	6,613.70	25.22	25.83	19.84	-421.81	1,274.58	247.66	197.17	50.49	4.905	
6,900.00	6,765.37	6,862.84	6,711.02	25.61	26.22	20.28	-429.18	1,296.28	247.19	195.93	51.27	4.822	
7,000.00	6,862.47	6,962.82	6,808.34	26.00	26.62	20.72	-436.55	1,317.97	246.74	194.70	52.04	4.741	
7,100.00	6,959.57	7,062.80	6,905.66	26.39	27.01	21.16	-443.92	1,339.66	246.30	193.48	52.82	4.663	
7,157.72	7,015.62	7,119.48	6,960.83	26.62	27.23	21.41	-448.12	1,351.96	246.07	192.81	53.26	4.621	SF
7,200.00	7,056.67	7,150.00	6,990.45	26.78	27.35	21.75	-451.41	1,358.50	246.79	193.41	53.39	4.623	
7,300.00	7,153.77	7,232.97	7,069.77	27.18	27.68	24.21	-468.45	1,375.56	254.16	200.46	53.70	4.733	
7,400.00	7,250.86	7,307.64	7,138.56	27.57	27.97	28.04	-493.65	1,389.76	270.67	217.21	53.46	5.063	
7,500.00	7,347.96	7,375.86	7,198.22	27.96	28.23	32.43	-524.45	1,401.57	297.47	244.86	52.61	5.655	
7,600.00	7,445.06	7,436.76	7,248.20	28.36	28.45	36.69	-557.88	1,411.03	334.94	283.75	51.19	6.543	
7,700.00	7,542.16	7,490.30	7,289.13	28.75	28.64	40.44	-591.57	1,418.41	382.45	333.05	49.40	7.742	
7,800.00	7,639.26	7,536.97	7,322.20	29.14	28.79	43.59	-623.99	1,424.09	438.73	391.26	47.47	9.241	
7,900.00	7,736.36	7,577.50	7,348.78	29.54	28.92	46.17	-654.27	1,428.41	502.32	456.73	45.59	11.019	
7,902.86	7,739.13	7,578.57	7,349.45	29.55	28.93	46.24	-655.10	1,428.52	504.23	458.70	45.53	11.074	
7,950.00	7,784.76	7,600.00	7,362.62	29.73	28.99	32.43	-671.88	1,430.56	535.22	490.35	44.87	11.929	
8,000.00	7,832.63	7,615.83	7,371.95	29.93	29.04	21.44	-684.58	1,431.96	566.63	522.90	43.73	12.956	
8,050.00	7,879.58	7,635.50	7,383.07	30.12	29.10	14.30	-700.73	1,433.57	596.45	553.66	42.79	13.938	
8,100.00	7,925.27	7,650.00	7,390.91	30.31	29.15	9.51	-712.87	1,434.66	624.57	583.01	41.56	15.028	
8,150.00	7,969.35	7,675.67	7,404.07	30.49	29.22	6.57	-734.84	1,436.41	650.72	609.83	40.89	15.913	
8,200.00	8,011.47	7,700.00	7,415.64	30.67	29.30	4.54	-756.20	1,437.83	674.97	634.84	40.13	16.819	
8,250.00	8,051.32	7,716.68	7,423.07	30.83	29.34	3.01	-771.11	1,438.67	697.12	658.13	38.99	17.879	
8,300.00	8,088.60	7,750.00	7,436.62	30.99	29.44	2.09	-801.51	1,440.02	717.41	678.78	38.63	18.572	
8,350.00	8,123.02	7,750.00	7,436.62	31.14	29.44	1.12	-801.51	1,440.02	735.12	698.34	36.78	19.988	
8,400.00	8,154.32	7,779.29	7,447.10	31.28	29.52	0.61	-828.85	1,440.85	750.62	714.36	36.25	20.706	
8,450.00	8,182.27	7,800.00	7,453.68	31.42	29.57	0.16	-848.48	1,441.24	763.93	728.54	35.39	21.586	
8,500.00	8,206.64	7,825.96	7,460.95	31.54	29.64	-0.17	-873.39	1,441.48	774.94	740.17	34.77	22.286	
8,550.00	8,227.26	7,849.15	7,466.72	31.66	29.70	-0.46	-895.86	1,441.57	783.37	749.27	34.10	22.973	
8,600.00	8,243.96	7,878.61	7,473.40	31.78	29.78	-0.71	-924.55	1,441.69	788.95	755.24	33.70	23.408	
8,621.67	8,249.95	7,900.00	7,477.79	31.83	29.84	-0.81	-945.48	1,441.78	790.54	756.70	33.84	23.364	
8,700.00	8,267.63	7,937.67	7,484.56	32.00	29.94	-0.81	-982.54	1,441.94	793.84	760.77	33.07	24.005	
8,800.00	8,282.55	8,000.00	7,493.08	32.23	30.11	-0.81	-1,044.27	1,442.21	794.97	762.27	32.70	24.311	
8,900.00	8,288.79	8,055.77	7,497.85	32.46	30.26	-0.81	-1,099.83	1,442.46	792.51	760.15	32.36	24.490	
8,921.67	8,289.00	8,068.57	7,498.56	32.51	30.29	-0.81	-1,112.61	1,442.52	791.51	759.18	32.33	24.480	
9,000.00	8,289.00	8,114.91	7,499.94	32.69	30.42	-0.81	-1,158.93	1,442.73	789.17	756.85	32.32	24.416	
9,018.65	8,289.00	8,125.95	7,499.99	32.74	30.45	-0.81	-1,169.97	1,442.78	789.08	756.74	32.34	24.397	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,289.00	8,207.30	7,499.99	32.94	30.67	-0.82	-1,251.32	1,443.15	789.08	756.10	32.98	23.925	
9,200.00	8,289.00	8,307.30	7,499.99	33.20	30.96	-0.82	-1,351.32	1,443.61	789.08	755.27	33.82	23.334	
9,300.00	8,289.00	8,407.30	7,499.99	33.48	31.26	-0.82	-1,451.32	1,444.06	789.08	754.38	34.70	22.738	
9,400.00	8,289.00	8,507.30	7,499.99	33.77	31.58	-0.82	-1,551.32	1,444.52	789.08	753.45	35.64	22.142	
9,500.00	8,289.00	8,607.30	7,500.00	34.07	31.91	-0.82	-1,651.32	1,444.98	789.08	752.47	36.61	21.551	
9,600.00	8,289.00	8,707.30	7,500.00	34.38	32.25	-0.82	-1,751.31	1,445.44	789.08	751.45	37.63	20.968	
9,700.00	8,289.00	8,807.30	7,500.00	34.70	32.60	-0.82	-1,851.31	1,445.89	789.08	750.40	38.69	20.397	
9,800.00	8,289.00	8,907.30	7,500.00	35.04	32.97	-0.82	-1,951.31	1,446.35	789.09	749.31	39.78	19.838	
9,900.00	8,289.00	9,007.30	7,500.00	35.39	33.35	-0.82	-2,051.31	1,446.81	789.09	748.19	40.90	19.295	
10,000.00	8,289.00	9,107.30	7,500.00	35.75	33.74	-0.82	-2,151.31	1,447.27	789.09	747.04	42.04	18.768	
10,100.00	8,289.00	9,207.30	7,500.00	36.12	34.14	-0.83	-2,251.31	1,447.72	789.09	745.87	43.22	18.257	
10,200.00	8,289.00	9,307.30	7,500.00	36.51	34.55	-0.83	-2,351.31	1,448.18	789.09	744.67	44.42	17.764	
10,300.00	8,289.00	9,407.30	7,500.00	36.90	34.97	-0.83	-2,451.31	1,448.64	789.09	743.44	45.64	17.289	
10,400.00	8,289.00	9,507.30	7,500.00	37.31	35.40	-0.83	-2,551.31	1,449.10	789.09	742.20	46.89	16.830	
10,500.00	8,289.00	9,607.30	7,500.00	37.72	35.85	-0.83	-2,651.31	1,449.56	789.09	740.94	48.15	16.389	
10,600.00	8,289.00	9,707.30	7,500.00	38.15	36.30	-0.83	-2,751.30	1,450.01	789.09	739.66	49.43	15.965	
10,700.00	8,289.00	9,807.30	7,500.00	38.58	36.76	-0.83	-2,851.30	1,450.47	789.09	738.36	50.72	15.557	
10,800.00	8,289.00	9,907.30	7,500.00	39.03	37.23	-0.83	-2,951.30	1,450.93	789.09	737.05	52.03	15.165	
10,900.00	8,289.00	10,007.30	7,500.00	39.48	37.71	-0.83	-3,051.30	1,451.39	789.09	735.73	53.36	14.788	
11,000.00	8,289.00	10,107.30	7,500.00	39.94	38.20	-0.84	-3,151.30	1,451.84	789.09	734.39	54.70	14.427	
11,100.00	8,289.00	10,207.30	7,500.00	40.41	38.70	-0.84	-3,251.30	1,452.30	789.09	733.04	56.05	14.079	
11,200.00	8,289.00	10,307.30	7,500.00	40.89	39.20	-0.84	-3,351.30	1,452.76	789.09	731.68	57.41	13.745	
11,300.00	8,289.00	10,407.30	7,500.00	41.38	39.72	-0.84	-3,451.30	1,453.22	789.09	730.31	58.78	13.425	
11,400.00	8,289.00	10,507.30	7,500.00	41.88	40.24	-0.84	-3,551.30	1,453.67	789.09	728.93	60.16	13.116	
11,500.00	8,289.00	10,607.30	7,500.00	42.38	40.77	-0.84	-3,651.30	1,454.13	789.09	727.54	61.55	12.820	
11,600.00	8,289.00	10,707.30	7,500.00	42.89	41.30	-0.84	-3,751.29	1,454.59	789.09	726.14	62.95	12.535	
11,700.00	8,289.00	10,807.30	7,500.00	43.41	41.84	-0.84	-3,851.29	1,455.05	789.09	724.73	64.36	12.261	
11,800.00	8,289.00	10,907.30	7,500.00	43.93	42.39	-0.84	-3,951.29	1,455.51	789.09	723.32	65.77	11.998	
11,900.00	8,289.00	11,007.30	7,500.00	44.46	42.95	-0.84	-4,051.29	1,455.96	789.09	721.90	67.19	11.744	
12,000.00	8,289.00	11,107.30	7,500.00	45.00	43.51	-0.85	-4,151.29	1,456.42	789.09	720.47	68.62	11.500	
12,100.00	8,289.00	11,207.30	7,500.00	45.55	44.07	-0.85	-4,251.29	1,456.88	789.09	719.03	70.05	11.264	
12,200.00	8,289.00	11,307.30	7,500.00	46.10	44.65	-0.85	-4,351.29	1,457.34	789.09	717.60	71.49	11.037	
12,300.00	8,289.00	11,407.30	7,500.00	46.65	45.23	-0.85	-4,451.29	1,457.79	789.09	716.15	72.94	10.819	
12,400.00	8,289.00	11,507.30	7,500.00	47.21	45.81	-0.85	-4,551.29	1,458.25	789.09	714.70	74.39	10.608	
12,400.05	8,289.00	11,507.35	7,500.00	47.21	45.81	-0.85	-4,551.33	1,458.25	789.09	714.70	74.39	10.608	
12,500.00	8,289.00	11,606.93	7,500.00	47.78	46.39	-0.88	-4,650.91	1,459.11	789.09	713.25	75.85	10.404	
12,600.00	8,289.00	11,704.61	7,500.00	48.35	46.99	-1.52	-4,748.09	1,468.35	789.28	711.73	77.55	10.177	
12,688.51	8,289.00	11,788.33	7,500.00	48.86	47.52	-2.73	-4,830.02	1,485.38	789.95	710.64	79.31	9.960	
12,700.00	8,289.00	11,800.00	7,500.00	48.93	47.59	-2.95	-4,841.29	1,488.41	790.10	710.52	79.58	9.928	
12,750.00	8,289.00	11,844.96	7,500.00	49.23	47.88	-3.76	-4,884.28	1,501.57	790.79	710.23	80.56	9.817	
12,800.00	8,289.00	11,890.67	7,500.00	49.53	48.17	-4.51	-4,927.18	1,517.34	791.54	710.05	81.49	9.713	
12,850.00	8,289.00	11,936.13	7,500.00	49.84	48.47	-5.16	-4,968.91	1,535.35	792.30	709.94	82.36	9.620	
12,900.00	8,289.00	11,981.38	7,500.00	50.15	48.76	-5.72	-5,009.40	1,555.53	793.02	709.86	83.16	9.536	
12,950.00	8,289.00	12,026.46	7,500.00	50.47	49.05	-6.18	-5,048.58	1,577.82	793.67	709.76	83.90	9.459	
13,000.00	8,289.00	12,071.40	7,500.00	50.79	49.34	-6.54	-5,086.37	1,602.13	794.20	709.62	84.58	9.389	
13,050.00	8,289.00	12,116.24	7,500.00	51.10	49.62	-6.80	-5,122.70	1,628.41	794.60	709.39	85.21	9.325	
13,100.00	8,289.00	12,161.02	7,500.00	51.40	49.90	-6.95	-5,157.50	1,656.59	794.85	709.05	85.79	9.265	
13,150.00	8,289.00	12,205.77	7,500.00	51.70	50.18	-7.00	-5,190.69	1,686.59	794.92	708.59	86.33	9.208	
13,200.00	8,289.00	12,250.00	7,500.00	51.99	50.44	-6.94	-5,221.86	1,717.97	794.83	708.02	86.82	9.155	
13,250.00	8,289.00	12,295.30	7,500.00	52.26	50.71	-6.78	-5,251.98	1,751.79	794.57	707.25	87.32	9.099	
13,300.00	8,289.00	12,340.15	7,500.00	52.52	50.97	-6.51	-5,279.93	1,786.86	794.16	706.36	87.80	9.045	
13,350.00	8,289.00	12,385.11	7,500.00	52.77	51.21	-6.15	-5,306.00	1,823.48	793.62	705.34	88.27	8.990	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	8,289.00	12,430.20	7,500.00	53.00	51.45	-5.68	-5,330.09	1,861.59	792.96	704.21	88.76	8.934	
13,450.00	8,289.00	12,475.46	7,500.00	53.20	51.69	-5.11	-5,352.15	1,901.11	792.24	702.97	89.26	8.875	
13,500.00	8,289.00	12,520.94	7,500.00	53.39	51.91	-4.45	-5,372.09	1,941.97	791.48	701.68	89.80	8.814	
13,550.00	8,289.00	12,566.67	7,500.00	53.55	52.12	-3.70	-5,389.85	1,984.11	790.73	700.35	90.37	8.750	
13,600.00	8,289.00	12,612.71	7,500.00	53.69	52.32	-2.86	-5,405.33	2,027.46	790.05	699.05	90.99	8.682	
13,650.00	8,289.00	12,659.09	7,500.00	53.80	52.51	-1.94	-5,418.46	2,071.94	789.49	697.82	91.67	8.613	
13,700.00	8,289.00	12,705.88	7,500.00	53.89	52.69	-0.95	-5,429.14	2,117.48	789.12	696.72	92.39	8.541	
13,744.85	8,289.00	12,748.24	7,500.00	53.95	52.84	0.00	-5,436.58	2,159.18	789.00	695.90	93.09	8.475	
13,750.00	8,289.00	12,753.12	7,500.00	53.96	52.85	0.11	-5,437.30	2,164.01	789.00	695.82	93.18	8.468	
13,800.00	8,289.00	12,800.89	7,500.00	54.00	53.01	1.24	-5,442.82	2,211.46	789.21	695.19	94.02	8.394	
13,850.00	8,289.00	12,849.27	7,500.00	54.02	53.14	2.42	-5,445.60	2,259.74	789.81	694.90	94.91	8.322	
13,900.00	8,289.00	12,898.32	7,500.00	54.01	53.26	3.64	-5,445.52	2,308.79	790.87	695.02	95.85	8.251	
13,950.00	8,289.00	12,948.16	7,500.00	53.99	53.37	4.91	-5,442.46	2,358.52	792.47	695.63	96.84	8.184	
14,000.00	8,289.00	12,998.87	7,500.00	53.94	53.46	6.21	-5,436.26	2,408.85	794.67	696.81	97.86	8.120	
14,050.00	8,289.00	13,050.59	7,500.00	53.88	53.53	7.54	-5,426.77	2,459.68	797.53	698.62	98.91	8.063	
14,100.00	8,289.00	13,103.46	7,500.00	53.80	53.58	8.89	-5,413.79	2,510.92	801.11	701.12	99.99	8.012	
14,150.00	8,289.00	13,157.63	7,500.00	53.70	53.62	10.26	-5,397.11	2,562.45	805.46	704.37	101.08	7.968	
14,200.00	8,289.00	13,213.30	7,500.00	53.59	53.63	11.65	-5,376.49	2,614.15	810.60	708.40	102.20	7.932	
14,250.00	8,289.00	13,270.68	7,500.00	53.47	53.63	13.04	-5,351.62	2,665.86	816.56	713.24	103.33	7.903	
14,300.00	8,289.00	13,330.04	7,500.00	53.33	53.60	14.45	-5,322.19	2,717.39	823.35	718.88	104.47	7.881	
14,350.00	8,289.00	13,391.68	7,500.00	53.20	53.55	15.86	-5,287.78	2,768.51	830.96	725.31	105.65	7.866	
14,400.00	8,289.00	13,455.95	7,500.00	53.05	53.47	17.29	-5,247.95	2,818.92	839.35	732.50	106.85	7.855	
14,450.00	8,289.00	13,523.26	7,500.00	52.91	53.36	18.74	-5,202.15	2,868.23	848.47	740.37	108.10	7.849	
14,500.00	8,289.00	13,594.11	7,500.00	52.76	53.23	20.20	-5,149.77	2,915.90	858.24	748.83	109.41	7.845	
14,530.51	8,289.00	13,639.30	7,500.00	52.67	53.14	21.10	-5,114.30	2,943.90	864.47	754.24	110.23	7.842	
14,600.00	8,289.00	13,750.99	7,500.00	52.46	52.88	23.94	-5,020.52	3,004.40	878.13	765.89	112.24	7.824	
14,700.00	8,289.00	13,935.34	7,500.00	52.18	52.38	27.21	-4,850.61	3,074.91	893.51	778.16	115.35	7.746	
14,762.01	8,289.00	14,042.23	7,500.00	52.01	52.07	28.29	-4,746.26	3,097.69	899.21	782.34	116.88	7.694	
14,800.00	8,289.00	14,125.15	7,500.00	51.90	51.83	28.80	-4,663.85	3,106.46	900.91	782.96	117.95	7.638	
14,900.00	8,289.00	14,243.02	7,500.00	51.64	51.51	29.14	-4,546.12	3,112.11	903.45	784.16	119.28	7.574	
15,000.00	8,289.00	14,357.00	7,500.00	51.38	51.20	29.22	-4,432.14	3,113.05	904.04	783.49	120.55	7.499	
15,100.00	8,289.00	14,457.00	7,500.00	51.14	50.95	29.22	-4,332.14	3,112.60	904.04	782.35	121.69	7.429	
15,200.00	8,289.00	14,557.00	7,500.00	50.90	50.70	29.22	-4,232.14	3,112.16	904.04	781.20	122.84	7.359	
15,300.00	8,289.00	14,657.00	7,500.00	50.66	50.46	29.22	-4,132.15	3,111.72	904.04	780.04	124.00	7.291	
15,400.00	8,289.00	14,757.00	7,500.00	50.44	50.22	29.22	-4,032.15	3,111.28	904.04	778.87	125.17	7.223	
15,500.00	8,289.00	14,857.00	7,500.00	50.23	50.00	29.22	-3,932.15	3,110.84	904.03	777.69	126.34	7.155	
15,600.00	8,289.00	14,957.00	7,500.00	50.02	49.78	29.22	-3,832.15	3,110.39	904.03	776.50	127.53	7.089	
15,700.00	8,289.00	15,057.00	7,500.00	49.82	49.57	29.22	-3,732.15	3,109.95	904.03	775.31	128.72	7.023	
15,800.00	8,289.00	15,157.00	7,500.00	49.64	49.37	29.22	-3,632.15	3,109.51	904.03	774.11	129.92	6.958	
15,900.00	8,289.00	15,257.00	7,500.00	49.46	49.17	29.22	-3,532.15	3,109.07	904.03	772.90	131.13	6.894	
16,000.00	8,289.00	15,357.00	7,500.00	49.29	48.99	29.22	-3,432.15	3,108.62	904.03	771.68	132.34	6.831	
16,100.00	8,289.00	15,457.00	7,500.00	49.13	48.81	29.22	-3,332.15	3,108.18	904.02	770.46	133.57	6.768	
16,200.00	8,289.00	15,557.00	7,500.00	48.98	48.64	29.22	-3,232.15	3,107.74	904.02	769.23	134.79	6.707	
16,300.00	8,289.00	15,657.00	7,500.00	48.84	48.49	29.22	-3,132.16	3,107.30	904.02	767.99	136.03	6.646	
16,400.00	8,289.00	15,757.00	7,500.00	48.71	48.33	29.22	-3,032.16	3,106.85	904.02	766.74	137.27	6.586	
16,500.00	8,289.00	15,857.00	7,500.00	48.59	48.19	29.22	-2,932.16	3,106.41	904.02	765.49	138.52	6.526	
16,600.00	8,289.00	15,957.00	7,500.00	48.48	48.06	29.22	-2,832.16	3,105.97	904.02	764.24	139.78	6.467	
16,700.00	8,289.00	16,057.00	7,500.00	48.38	47.94	29.22	-2,732.16	3,105.53	904.01	762.97	141.04	6.410	
16,800.00	8,289.00	16,157.00	7,500.00	48.29	47.82	29.22	-2,632.16	3,105.08	904.01	761.70	142.31	6.352	
16,900.00	8,289.00	16,257.00	7,500.00	48.21	47.72	29.22	-2,532.16	3,104.64	904.01	760.43	143.58	6.296	
17,000.00	8,289.00	16,357.00	7,500.00	48.15	47.63	29.22	-2,432.16	3,104.20	904.01	759.15	144.86	6.241	
17,100.00	8,289.00	16,457.00	7,500.00	48.09	47.54	29.22	-2,332.16	3,103.76	904.01	757.86	146.15	6.186	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,200.00	8,289.00	16,557.00	7,500.00	48.05	47.47	29.22	-2,232.16	3,103.32	904.01	756.57	147.44	6.132	
17,300.00	8,289.00	16,657.00	7,500.00	48.01	47.41	29.22	-2,132.17	3,102.87	904.00	755.27	148.73	6.078	
17,400.00	8,289.00	16,757.00	7,500.00	47.99	47.36	29.22	-2,032.17	3,102.43	904.00	753.97	150.03	6.025	
17,500.00	8,289.00	16,857.00	7,500.00	47.99	47.32	29.22	-1,932.17	3,101.99	904.00	752.66	151.34	5.973	
17,600.00	8,289.00	16,957.00	7,500.00	47.99	47.30	29.22	-1,832.17	3,101.55	904.00	751.35	152.65	5.922	
17,700.00	8,289.00	17,057.00	7,500.00	48.01	47.28	29.22	-1,732.17	3,101.10	904.00	750.04	153.96	5.872	
17,800.00	8,289.00	17,157.00	7,500.00	48.04	47.28	29.22	-1,632.17	3,100.66	904.00	748.71	155.28	5.822	
17,900.00	8,289.00	17,257.00	7,500.00	48.08	47.29	29.22	-1,532.17	3,100.22	903.99	747.39	156.60	5.772	
18,000.00	8,289.00	17,357.00	7,500.00	48.14	47.31	29.22	-1,432.17	3,099.78	903.99	746.06	157.93	5.724	
18,100.00	8,289.00	17,457.00	7,500.00	48.21	47.35	29.21	-1,332.17	3,099.33	903.99	744.73	159.27	5.676	
18,200.00	8,289.00	17,557.00	7,500.00	48.29	47.40	29.21	-1,232.17	3,098.89	903.99	743.39	160.60	5.629	
18,300.00	8,289.00	17,657.00	7,500.00	48.39	47.47	29.21	-1,132.18	3,098.45	903.99	742.04	161.94	5.582	
18,400.00	8,289.00	17,757.00	7,500.00	48.50	47.55	29.21	-1,032.18	3,098.01	903.99	740.70	163.29	5.536	
18,500.00	8,289.00	17,857.00	7,500.00	48.63	47.64	29.21	-932.18	3,097.56	903.98	739.35	164.64	5.491	
18,600.00	8,289.00	17,957.00	7,500.00	48.76	47.75	29.21	-832.18	3,097.12	903.98	737.99	165.99	5.446	
18,700.00	8,289.00	18,057.00	7,500.00	48.92	47.88	29.21	-732.18	3,096.68	903.98	736.64	167.34	5.402	
18,800.00	8,289.00	18,157.00	7,500.00	49.08	48.02	29.21	-632.18	3,096.24	903.98	735.28	168.70	5.358	
18,900.00	8,289.00	18,257.00	7,500.00	49.26	48.18	29.21	-532.18	3,095.80	903.98	733.91	170.07	5.315	
19,000.00	8,289.00	18,357.00	7,500.00	49.46	48.35	29.21	-432.18	3,095.35	903.98	732.54	171.43	5.273	
19,100.00	8,289.00	18,457.00	7,500.00	50.02	48.53	29.21	-332.18	3,094.91	903.97	731.51	172.46	5.242	
19,101.33	8,289.00	18,458.34	7,500.00	50.05	48.53	29.21	-330.85	3,094.90	903.97	731.50	172.47	5.241	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	-90.65	-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	
500.00	500.00	501.00	501.00	1.71	1.71	-90.65	-0.68	-59.98	59.98	56.56	3.42	17.522	
600.00	600.00	601.00	601.00	2.07	2.07	-90.65	-0.68	-59.98	59.98	55.84	4.14	14.488	
700.00	700.00	701.00	701.00	2.43	2.43	-90.65	-0.68	-59.98	59.98	55.13	4.86	12.349	
800.00	800.00	801.00	801.00	2.79	2.79	-90.65	-0.68	-59.98	59.98	54.41	5.57	10.761	
900.00	900.00	901.00	901.00	3.14	3.15	-90.65	-0.68	-59.98	59.98	53.69	6.29	9.535	
1,000.00	1,000.00	1,001.00	1,001.00	3.50	3.51	-90.65	-0.68	-59.98	59.98	52.98	7.01	8.559	
1,100.00	1,100.00	1,101.00	1,101.00	3.86	3.86	-90.65	-0.68	-59.98	59.98	52.26	7.73	7.765	
1,200.00	1,200.00	1,201.00	1,201.00	4.22	4.22	-90.65	-0.68	-59.98	59.98	51.54	8.44	7.105	
1,300.00	1,300.00	1,301.00	1,301.00	4.58	4.58	-90.65	-0.68	-59.98	59.98	50.82	9.16	6.549	
1,400.00	1,400.00	1,401.00	1,401.00	4.94	4.94	-90.65	-0.68	-59.98	59.98	50.11	9.88	6.074	
1,500.00	1,500.00	1,501.00	1,501.00	5.29	5.30	-90.65	-0.68	-59.98	59.98	49.39	10.59	5.663	
1,600.00	1,600.00	1,601.00	1,601.00	5.65	5.66	-90.65	-0.68	-59.98	59.98	48.67	11.31	5.304	
1,700.00	1,700.00	1,701.00	1,701.00	6.01	6.02	-90.65	-0.68	-59.98	59.98	47.96	12.03	4.988	
1,800.00	1,800.00	1,801.00	1,801.00	6.37	6.37	-90.65	-0.68	-59.98	59.98	47.24	12.74	4.707	CC, ES
1,900.00	1,899.98	1,900.98	1,900.98	6.72	6.73	165.05	-0.68	-59.98	61.67	48.22	13.45	4.585	
2,000.00	1,999.84	2,000.86	2,000.86	7.06	7.09	166.18	-0.68	-59.98	66.74	52.59	14.15	4.718	
2,100.00	2,099.45	2,103.03	2,103.01	7.40	7.44	167.43	-1.21	-58.20	73.48	58.65	14.83	4.954	
2,200.00	2,198.70	2,205.47	2,205.29	7.74	7.79	168.37	-2.78	-52.92	80.20	64.70	15.49	5.176	
2,300.00	2,297.47	2,308.16	2,307.56	8.09	8.14	169.08	-5.39	-44.11	86.86	70.72	16.14	5.380	
2,400.00	2,395.62	2,411.10	2,409.69	8.44	8.49	169.60	-9.06	-31.75	93.47	76.69	16.78	5.569	
2,491.84	2,485.13	2,505.86	2,503.24	8.76	8.82	169.96	-13.36	-17.28	99.47	82.11	17.36	5.730	
2,500.00	2,493.06	2,514.29	2,511.54	8.79	8.85	169.98	-13.78	-15.84	99.99	82.58	17.41	5.743	
2,600.00	2,590.16	2,617.82	2,613.04	9.14	9.21	170.07	-19.57	3.64	104.43	86.41	18.02	5.794	
2,700.00	2,687.25	2,719.89	2,712.41	9.50	9.57	169.79	-26.20	25.96	105.67	87.00	18.67	5.659	
2,800.00	2,784.35	2,819.88	2,809.64	9.86	9.92	169.45	-32.85	48.36	106.37	86.99	19.38	5.488	
2,900.00	2,881.45	2,919.88	2,906.87	10.23	10.28	169.11	-39.50	70.77	107.07	86.97	20.10	5.327	
3,000.00	2,978.55	3,019.87	3,004.09	10.60	10.64	168.79	-46.15	93.17	107.77	86.95	20.82	5.176	
3,100.00	3,075.65	3,119.87	3,101.32	10.96	11.00	168.46	-52.80	115.57	108.48	86.93	21.55	5.035	
3,200.00	3,172.74	3,219.86	3,198.55	11.34	11.37	168.14	-59.46	137.98	109.18	86.91	22.28	4.901	
3,300.00	3,269.84	3,319.86	3,295.77	11.71	11.73	167.82	-66.11	160.38	109.90	86.88	23.01	4.775	
3,400.00	3,366.94	3,419.86	3,393.00	12.08	12.10	167.51	-72.76	182.79	110.61	86.86	23.75	4.656	
3,500.00	3,464.04	3,519.85	3,490.22	12.46	12.47	167.20	-79.41	205.19	111.33	86.83	24.50	4.544	
3,600.00	3,561.14	3,619.85	3,587.45	12.83	12.84	166.90	-86.06	227.60	112.05	86.81	25.25	4.439	
3,700.00	3,658.24	3,719.84	3,684.68	13.21	13.21	166.60	-92.72	250.00	112.78	86.78	26.00	4.338	
3,800.00	3,755.33	3,819.84	3,781.90	13.59	13.59	166.30	-99.37	272.41	113.51	86.76	26.75	4.244	
3,900.00	3,852.43	3,919.83	3,879.13	13.97	13.96	166.01	-106.02	294.81	114.24	86.73	27.50	4.154	
4,000.00	3,949.53	4,019.83	3,976.35	14.35	14.34	165.72	-112.67	317.21	114.97	86.71	28.26	4.068	
4,100.00	4,046.63	4,119.83	4,073.58	14.73	14.72	165.44	-119.32	339.62	115.71	86.69	29.02	3.987	
4,200.00	4,143.73	4,219.82	4,170.81	15.11	15.09	165.15	-125.98	362.02	116.45	86.67	29.78	3.910	
4,300.00	4,240.82	4,319.82	4,268.03	15.50	15.47	164.88	-132.63	384.43	117.19	86.65	30.55	3.836	
4,400.00	4,337.92	4,419.81	4,365.26	15.88	15.85	164.60	-139.28	406.83	117.94	86.62	31.31	3.766	
4,500.00	4,435.02	4,519.81	4,462.49	16.27	16.23	164.33	-145.93	429.24	118.69	86.61	32.08	3.700	
4,600.00	4,532.12	4,619.80	4,559.71	16.65	16.62	164.06	-152.58	451.64	119.44	86.59	32.85	3.636	
4,700.00	4,629.22	4,719.80	4,656.94	17.04	17.00	163.80	-159.24	474.04	120.19	86.57	33.62	3.575	
4,800.00	4,726.31	4,819.79	4,754.16	17.42	17.38	163.54	-165.89	496.45	120.95	86.55	34.39	3.517	
4,900.00	4,823.41	4,919.79	4,851.39	17.81	17.76	163.28	-172.54	518.85	121.71	86.54	35.17	3.461	
5,000.00	4,920.51	5,019.79	4,948.62	18.20	18.15	163.02	-179.19	541.26	122.47	86.53	35.94	3.408	

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 3H
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 3H	**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
5,100.00	5,017.61	5,119.78	5,045.84	18.58	18.53	162.77	-185.84	563.66	123.23	86.52	36.71	3.356	
5,200.00	5,114.71	5,219.78	5,143.07	18.97	18.91	162.52	-192.50	586.07	124.00	86.50	37.49	3.307	
5,300.00	5,211.80	5,319.77	5,240.29	19.36	19.30	162.28	-199.15	608.47	124.76	86.50	38.27	3.260	
5,400.00	5,308.90	5,419.77	5,337.52	19.75	19.68	162.04	-205.80	630.88	125.53	86.49	39.05	3.215	
5,500.00	5,406.00	5,519.76	5,434.75	20.14	20.07	161.80	-212.45	653.28	126.31	86.48	39.82	3.172	
5,600.00	5,503.10	5,619.76	5,531.97	20.53	20.46	161.56	-219.10	675.68	127.08	86.48	40.60	3.130	
5,700.00	5,600.20	5,719.76	5,629.20	20.91	20.84	161.33	-225.76	698.09	127.86	86.47	41.39	3.089	
5,800.00	5,697.30	5,819.75	5,726.43	21.30	21.23	161.10	-232.41	720.49	128.64	86.47	42.17	3.051	
5,900.00	5,794.39	5,919.75	5,823.65	21.69	21.62	160.87	-239.06	742.90	129.42	86.47	42.95	3.013	
6,000.00	5,891.49	6,019.74	5,920.88	22.09	22.00	160.64	-245.71	765.30	130.20	86.47	43.73	2.977	
6,100.00	5,988.59	6,119.74	6,018.10	22.48	22.39	160.42	-252.36	787.71	130.98	86.47	44.51	2.943	
6,200.00	6,085.69	6,219.73	6,115.33	22.87	22.78	160.20	-259.02	810.11	131.77	86.47	45.30	2.909	
6,300.00	6,182.79	6,319.73	6,212.56	23.26	23.17	159.98	-265.67	832.51	132.56	86.48	46.08	2.877	
6,400.00	6,279.88	6,419.72	6,309.78	23.65	23.56	159.77	-272.32	854.92	133.35	86.48	46.87	2.845	
6,500.00	6,376.98	6,519.72	6,407.01	24.04	23.95	159.56	-278.97	877.32	134.14	86.49	47.65	2.815	
6,600.00	6,474.08	6,619.72	6,504.23	24.43	24.33	159.35	-285.62	899.73	134.94	86.50	48.44	2.786	
6,700.00	6,571.18	6,719.71	6,601.46	24.82	24.72	159.14	-292.28	922.13	135.73	86.51	49.23	2.757	
6,800.00	6,668.28	6,819.71	6,698.69	25.22	25.11	158.93	-298.93	944.54	136.53	86.52	50.01	2.730	
6,900.00	6,765.37	6,919.70	6,795.91	25.61	25.50	158.73	-305.58	966.94	137.33	86.53	50.80	2.703	
7,000.00	6,862.47	7,019.70	6,893.14	26.00	25.89	158.53	-312.23	989.35	138.13	86.54	51.59	2.678	
7,100.00	6,959.57	7,119.69	6,990.36	26.39	26.28	158.33	-318.88	1,011.75	138.93	86.56	52.38	2.653	
7,200.00	7,056.67	7,219.69	7,087.59	26.78	26.67	158.14	-325.54	1,034.15	139.74	86.57	53.16	2.628	
7,300.00	7,153.77	7,317.28	7,182.59	27.18	27.05	158.03	-331.89	1,055.55	141.02	87.05	53.98	2.613	SF
7,400.00	7,250.86	7,412.82	7,276.21	27.57	27.42	158.39	-337.31	1,073.80	145.07	90.30	54.77	2.649	
7,500.00	7,347.96	7,508.00	7,370.06	27.96	27.77	159.20	-341.82	1,088.99	152.18	96.68	55.50	2.742	
7,600.00	7,445.06	7,602.61	7,463.82	28.36	28.12	160.35	-345.42	1,101.11	162.40	106.22	56.18	2.891	
7,700.00	7,542.16	7,696.45	7,557.17	28.75	28.46	161.71	-348.12	1,110.21	175.74	118.95	56.79	3.094	
7,800.00	7,639.26	7,789.32	7,649.82	29.14	28.79	163.17	-349.93	1,116.31	192.23	134.88	57.35	3.352	
7,900.00	7,736.36	7,881.06	7,741.50	29.54	29.11	164.64	-350.88	1,119.52	211.86	154.02	57.85	3.663	
7,902.86	7,739.13	7,883.67	7,744.10	29.55	29.11	164.68	-350.89	1,119.57	212.47	154.61	57.86	3.672	
7,950.00	7,784.76	7,926.33	7,786.76	29.73	29.26	147.68	-351.04	1,120.06	222.73	164.66	58.06	3.836	
8,000.00	7,832.63	7,973.20	7,833.63	29.93	29.41	135.14	-351.05	1,120.09	234.05	175.71	58.33	4.012	
8,050.00	7,879.58	8,020.15	7,880.58	30.12	29.57	127.50	-351.05	1,120.09	245.67	187.04	58.63	4.190	
8,100.00	7,925.27	8,065.84	7,926.27	30.31	29.72	123.21	-351.05	1,120.09	258.03	199.12	58.91	4.380	
8,150.00	7,969.35	8,109.92	7,970.35	30.49	29.86	121.08	-351.05	1,120.09	271.67	212.49	59.18	4.590	
8,200.00	8,011.47	8,152.04	8,012.47	30.67	30.00	120.24	-351.05	1,120.09	287.13	227.68	59.45	4.830	
8,250.00	8,051.32	8,191.89	8,052.32	30.83	30.13	120.09	-351.05	1,120.09	304.90	245.19	59.71	5.107	
8,300.00	8,088.60	8,229.17	8,089.60	30.99	30.25	120.17	-351.05	1,120.09	325.36	265.40	59.96	5.426	
8,350.00	8,123.02	8,263.59	8,124.02	31.14	30.37	120.18	-351.05	1,120.09	348.77	288.57	60.20	5.793	
8,400.00	8,154.32	8,294.89	8,155.32	31.28	30.47	119.87	-351.05	1,120.09	375.24	314.80	60.43	6.209	
8,450.00	8,182.27	8,322.84	8,183.27	31.42	30.56	119.02	-351.05	1,120.09	404.73	344.08	60.65	6.673	
8,500.00	8,206.64	8,347.21	8,207.64	31.54	30.64	117.47	-351.05	1,120.09	437.10	376.26	60.84	7.185	
8,550.00	8,227.26	8,367.83	8,228.26	31.66	30.71	115.04	-351.05	1,120.09	472.10	411.10	61.00	7.739	
8,600.00	8,243.96	8,384.53	8,244.96	31.78	30.77	111.59	-351.05	1,120.09	509.42	448.29	61.13	8.333	
8,621.67	8,249.95	8,390.52	8,250.95	31.83	30.79	109.74	-351.05	1,120.09	526.22	465.04	61.18	8.601	
8,700.00	8,267.63	8,408.20	8,268.63	32.00	30.85	107.44	-351.05	1,120.09	589.79	528.47	61.32	9.618	
8,800.00	8,282.55	8,423.12	8,283.55	32.23	30.89	101.71	-351.05	1,120.09	676.07	614.63	61.45	11.003	
8,900.00	8,288.79	8,429.36	8,289.79	32.46	30.92	92.47	-351.05	1,120.09	766.25	704.74	61.51	12.458	
8,921.67	8,289.00	8,429.57	8,290.00	32.51	30.92	90.00	-351.05	1,120.09	786.14	724.63	61.51	12.780	
9,000.00	8,289.00	8,429.57	8,290.00	32.69	30.92	90.00	-351.05	1,120.09	858.76	797.24	61.53	13.957	
9,100.00	8,289.00	8,429.57	8,290.00	32.94	30.92	90.00	-351.05	1,120.09	952.79	891.25	61.55	15.480	
9,200.00	8,289.00	8,429.57	8,290.00	33.20	30.92	90.00	-351.05	1,120.09	1,047.93	986.36	61.57	17.021	

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 3H
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 3H	**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
9,300.00	8,289.00	8,429.57	8,290.00	33.48	30.92	90.00	-351.05	1,120.09	1,143.89	1,082.31	61.59	18.573	
9,400.00	8,289.00	8,429.57	8,290.00	33.77	30.92	90.00	-351.05	1,120.09	1,240.50	1,178.89	61.61	20.135	
9,500.00	8,289.00	8,429.57	8,290.00	34.07	30.92	90.00	-351.05	1,120.09	1,337.60	1,275.97	61.63	21.704	
9,600.00	8,289.00	8,429.57	8,290.00	34.38	30.92	90.00	-351.05	1,120.09	1,435.10	1,373.45	61.65	23.278	
9,700.00	8,289.00	8,429.57	8,290.00	34.70	30.92	90.00	-351.05	1,120.09	1,532.92	1,471.25	61.67	24.856	
9,800.00	8,289.00	11,365.52	9,888.00	35.04	38.97	169.09	-1,952.71	1,127.10	1,627.40	1,578.11	49.29	33.018	
9,900.00	8,289.00	11,465.52	9,888.00	35.39	39.27	169.09	-2,052.71	1,127.54	1,627.40	1,577.08	50.32	32.343	
10,000.00	8,289.00	11,565.52	9,888.00	35.75	39.59	169.09	-2,152.71	1,127.98	1,627.40	1,576.03	51.37	31.678	
10,100.00	8,289.00	11,665.52	9,888.00	36.12	39.92	169.09	-2,252.71	1,128.42	1,627.40	1,574.95	52.45	31.026	
10,200.00	8,289.00	11,765.52	9,888.00	36.51	40.25	169.09	-2,352.71	1,128.86	1,627.40	1,573.84	53.56	30.386	
10,300.00	8,289.00	11,865.52	9,888.00	36.90	40.60	169.09	-2,452.71	1,129.30	1,627.40	1,572.72	54.69	29.759	
10,400.00	8,289.00	11,965.52	9,888.00	37.31	40.96	169.09	-2,552.71	1,129.73	1,627.40	1,571.57	55.83	29.147	
10,500.00	8,289.00	12,065.52	9,888.00	37.72	41.33	169.09	-2,652.71	1,130.17	1,627.40	1,570.40	57.00	28.549	
10,600.00	8,289.00	12,165.52	9,888.00	38.15	41.71	169.09	-2,752.71	1,130.61	1,627.40	1,569.21	58.19	27.967	
10,700.00	8,289.00	12,265.52	9,888.00	38.58	42.10	169.09	-2,852.71	1,131.05	1,627.41	1,568.01	59.39	27.400	
10,800.00	8,289.00	12,365.52	9,888.00	39.03	42.50	169.09	-2,952.70	1,131.49	1,627.41	1,566.79	60.62	26.848	
10,900.00	8,289.00	12,465.52	9,888.00	39.48	42.91	169.09	-3,052.70	1,131.93	1,627.41	1,565.55	61.85	26.311	
11,000.00	8,289.00	12,565.52	9,888.00	39.94	43.33	169.09	-3,152.70	1,132.37	1,627.41	1,564.30	63.10	25.789	
11,100.00	8,289.00	12,665.52	9,888.00	40.41	43.76	169.09	-3,252.70	1,132.80	1,627.41	1,563.04	64.37	25.282	
11,200.00	8,289.00	12,765.52	9,888.00	40.89	44.20	169.09	-3,352.70	1,133.24	1,627.41	1,561.76	65.65	24.790	
11,300.00	8,289.00	12,865.52	9,888.00	41.38	44.64	169.09	-3,452.70	1,133.68	1,627.41	1,560.47	66.94	24.312	
11,400.00	8,289.00	12,965.52	9,888.00	41.88	45.10	169.09	-3,552.70	1,134.12	1,627.41	1,559.17	68.24	23.848	
11,500.00	8,289.00	13,065.52	9,888.00	42.38	45.56	169.09	-3,652.70	1,134.56	1,627.41	1,557.86	69.55	23.398	
11,600.00	8,289.00	13,165.52	9,888.00	42.89	46.03	169.09	-3,752.70	1,135.00	1,627.41	1,556.53	70.88	22.961	
11,700.00	8,289.00	13,265.52	9,888.00	43.41	46.51	169.09	-3,852.70	1,135.44	1,627.41	1,555.20	72.21	22.537	
11,800.00	8,289.00	13,365.52	9,888.00	43.93	46.99	169.09	-3,952.70	1,135.88	1,627.41	1,553.86	73.55	22.125	
11,900.00	8,289.00	13,465.52	9,888.00	44.46	47.48	169.09	-4,052.69	1,136.31	1,627.41	1,552.51	74.91	21.726	
12,000.00	8,289.00	13,565.52	9,888.00	45.00	47.98	169.09	-4,152.69	1,136.75	1,627.42	1,551.15	76.26	21.339	
12,100.00	8,289.00	13,665.52	9,888.00	45.55	48.49	169.09	-4,252.69	1,137.19	1,627.42	1,549.78	77.63	20.963	
12,200.00	8,289.00	13,765.52	9,888.00	46.10	49.00	169.09	-4,352.69	1,137.63	1,627.42	1,548.41	79.01	20.598	
12,300.00	8,289.00	13,865.52	9,888.00	46.65	49.52	169.09	-4,452.69	1,138.07	1,627.42	1,547.03	80.39	20.244	
12,400.00	8,289.00	13,965.52	9,888.00	47.21	50.04	169.09	-4,552.69	1,138.51	1,627.42	1,545.64	81.78	19.900	
12,500.00	8,289.00	14,065.52	9,888.00	47.78	50.58	169.09	-4,652.69	1,138.95	1,627.42	1,544.25	83.17	19.567	
12,600.00	8,289.00	14,165.52	9,888.00	48.35	51.11	169.09	-4,752.69	1,139.38	1,627.42	1,542.85	84.57	19.243	
12,688.51	8,289.00	14,294.29	9,888.00	48.86	51.82	169.29	-4,881.19	1,145.63	1,626.85	1,540.91	85.93	18.931	
12,700.00	8,289.00	14,315.50	9,888.00	48.93	51.94	169.36	-4,902.14	1,148.84	1,626.55	1,540.46	86.09	18.893	
12,750.00	8,289.00	14,405.96	9,888.00	49.23	52.46	169.75	-4,990.01	1,170.07	1,624.97	1,538.28	86.69	18.745	
12,800.00	8,289.00	14,493.05	9,888.00	49.53	52.97	170.24	-5,071.07	1,201.72	1,622.97	1,535.82	87.15	18.622	
12,850.00	8,289.00	14,576.29	9,888.00	49.84	53.45	170.81	-5,144.00	1,241.73	1,620.67	1,533.14	87.53	18.516	
12,900.00	8,289.00	14,655.47	9,888.00	50.15	53.90	171.44	-5,208.16	1,288.06	1,618.16	1,530.30	87.85	18.419	
12,950.00	8,289.00	14,730.59	9,888.00	50.47	54.30	172.10	-5,263.46	1,338.84	1,615.55	1,527.38	88.17	18.323	
13,000.00	8,289.00	14,801.79	9,888.00	50.79	54.67	172.78	-5,310.20	1,392.50	1,612.93	1,524.42	88.51	18.224	
13,050.00	8,289.00	14,869.30	9,888.00	51.10	54.99	173.48	-5,348.92	1,447.77	1,610.39	1,521.50	88.89	18.118	
13,100.00	8,289.00	14,933.42	9,888.00	51.40	55.27	174.18	-5,380.26	1,503.68	1,607.99	1,518.67	89.32	18.003	
13,150.00	8,289.00	14,994.46	9,888.00	51.70	55.52	174.89	-5,404.90	1,559.50	1,605.79	1,515.98	89.81	17.880	
13,200.00	8,289.00	15,052.72	9,888.00	51.99	55.73	175.59	-5,423.49	1,614.70	1,603.83	1,513.46	90.36	17.749	
13,250.00	8,289.00	15,108.51	9,888.00	52.26	55.90	176.29	-5,436.64	1,668.89	1,602.13	1,511.16	90.97	17.611	
13,300.00	8,289.00	15,162.09	9,888.00	52.52	56.05	176.98	-5,444.91	1,721.81	1,600.72	1,509.09	91.63	17.469	
13,350.00	8,289.00	15,213.70	9,888.00	52.77	56.17	177.67	-5,448.76	1,773.27	1,599.61	1,507.27	92.34	17.323	
13,400.00	8,289.00	15,263.58	9,888.00	53.00	56.26	178.36	-5,448.64	1,823.14	1,598.80	1,505.71	93.09	17.175	
13,450.00	8,289.00	15,311.92	9,888.00	53.20	56.33	179.04	-5,444.92	1,871.32	1,598.27	1,504.40	93.87	17.027	
13,500.00	8,289.00	15,358.88	9,888.00	53.39	56.38	179.70	-5,437.92	1,917.75	1,598.03	1,503.35	94.68	16.879	

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 3H
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 3H	**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
13,522.36	8,289.00	15,379.49	9,888.00	53.46	56.39	-180.00	-5,433.80	1,937.94	1,598.00	1,502.96	95.04	16.813	
13,550.00	8,289.00	15,404.64	9,888.00	53.55	56.41	-179.64	-5,427.92	1,962.40	1,598.04	1,502.54	95.50	16.733	
13,600.00	8,289.00	15,450.00	9,888.00	53.69	56.43	-178.98	-5,414.98	2,005.86	1,598.29	1,501.95	96.34	16.590	
13,650.00	8,289.00	15,493.06	9,888.00	53.80	56.42	-178.36	-5,399.94	2,046.19	1,598.75	1,501.55	97.20	16.448	
13,700.00	8,289.00	15,535.94	9,888.00	53.89	56.41	-177.75	-5,382.37	2,085.30	1,599.40	1,501.34	98.06	16.310	
13,750.00	8,289.00	15,578.07	9,888.00	53.96	56.38	-177.16	-5,362.66	2,122.53	1,600.21	1,501.28	98.93	16.175	
13,800.00	8,289.00	15,619.54	9,888.00	54.00	56.34	-176.59	-5,340.97	2,157.87	1,601.15	1,501.35	99.80	16.044	
13,850.00	8,289.00	15,660.42	9,888.00	54.02	56.29	-176.05	-5,317.45	2,191.29	1,602.18	1,501.52	100.66	15.916	
13,900.00	8,289.00	15,700.00	9,888.00	54.01	56.23	-175.54	-5,292.73	2,222.20	1,603.28	1,501.75	101.53	15.792	
13,950.00	8,289.00	15,740.66	9,888.00	53.99	56.16	-175.05	-5,265.45	2,252.35	1,604.41	1,502.03	102.38	15.671	
14,000.00	8,289.00	15,780.15	9,888.00	53.94	56.09	-174.59	-5,237.23	2,279.96	1,605.55	1,502.32	103.23	15.553	
14,050.00	8,289.00	15,819.28	9,888.00	53.88	56.00	-174.18	-5,207.67	2,305.59	1,606.67	1,502.61	104.07	15.439	
14,100.00	8,289.00	15,858.11	9,888.00	53.80	55.92	-173.80	-5,176.89	2,329.24	1,607.75	1,502.86	104.89	15.328	
14,150.00	8,289.00	15,900.00	9,888.00	53.70	55.82	-173.44	-5,142.17	2,352.68	1,608.76	1,503.05	105.70	15.219	
14,200.00	8,289.00	15,935.00	9,888.00	53.59	55.73	-173.17	-5,112.07	2,370.52	1,609.66	1,503.17	106.49	15.115	
14,250.00	8,289.00	15,973.14	9,888.00	53.47	55.63	-172.92	-5,078.24	2,388.12	1,610.47	1,503.20	107.27	15.013	
14,300.00	8,289.00	16,011.13	9,888.00	53.33	55.53	-172.71	-5,043.58	2,403.67	1,611.14	1,503.12	108.02	14.915	
14,350.00	8,289.00	16,050.00	9,888.00	53.20	55.42	-172.55	-5,007.25	2,417.47	1,611.67	1,502.91	108.76	14.819	
14,400.00	8,289.00	16,086.78	9,888.00	53.05	55.32	-172.44	-4,972.18	2,428.53	1,612.05	1,502.59	109.46	14.727	
14,450.00	8,289.00	16,124.50	9,888.00	52.91	55.22	-172.37	-4,935.62	2,437.82	1,612.27	1,502.12	110.15	14.638	
14,500.00	8,289.00	16,162.20	9,888.00	52.76	55.11	-172.36	-4,898.62	2,445.00	1,612.33	1,501.52	110.80	14.551	
14,530.51	8,289.00	16,185.20	9,888.00	52.67	55.05	-172.37	-4,875.86	2,448.33	1,612.28	1,501.09	111.19	14.500	
14,559.52	8,289.00	16,207.08	9,888.00	52.58	54.98	-172.38	-4,854.11	2,450.76	1,612.24	1,500.68	111.56	14.452	
14,600.00	8,289.00	16,240.37	9,888.00	52.46	54.89	-172.36	-4,820.91	2,453.18	1,612.30	1,500.20	112.10	14.383	
14,700.00	8,289.00	16,333.40	9,888.00	52.18	54.64	-172.34	-4,727.98	2,457.33	1,612.38	1,498.87	113.51	14.205	
14,762.01	8,289.00	16,391.09	9,888.00	52.01	54.49	-172.36	-4,670.31	2,458.39	1,612.32	1,497.95	114.37	14.098	
14,800.00	8,289.00	16,427.24	9,888.00	51.90	54.39	-172.37	-4,634.15	2,458.46	1,612.28	1,497.38	114.90	14.032	
14,834.13	8,289.00	16,460.50	9,888.00	51.81	54.31	-172.37	-4,600.90	2,458.32	1,612.28	1,496.89	115.40	13.972	
14,900.00	8,289.00	16,526.37	9,888.00	51.64	54.14	-172.37	-4,535.02	2,458.03	1,612.28	1,495.92	116.36	13.856	
15,000.00	8,289.00	16,626.37	9,888.00	51.38	53.90	-172.37	-4,435.03	2,457.59	1,612.28	1,494.45	117.83	13.683	
15,100.00	8,289.00	16,726.37	9,888.00	51.14	53.66	-172.37	-4,335.03	2,457.16	1,612.28	1,492.98	119.30	13.514	
15,200.00	8,289.00	16,826.37	9,888.00	50.90	53.44	-172.37	-4,235.03	2,456.73	1,612.28	1,491.51	120.77	13.350	
15,300.00	8,289.00	16,926.37	9,888.00	50.66	53.22	-172.37	-4,135.03	2,456.29	1,612.28	1,490.03	122.25	13.188	
15,400.00	8,289.00	17,026.37	9,888.00	50.44	53.00	-172.37	-4,035.03	2,455.86	1,612.28	1,488.55	123.73	13.031	
15,500.00	8,289.00	17,126.37	9,888.00	50.23	52.80	-172.37	-3,935.03	2,455.42	1,612.28	1,487.07	125.21	12.877	
15,600.00	8,289.00	17,226.37	9,888.00	50.02	52.61	-172.37	-3,835.03	2,454.99	1,612.28	1,485.59	126.69	12.726	
15,700.00	8,289.00	17,326.37	9,888.00	49.82	52.42	-172.37	-3,735.03	2,454.55	1,612.28	1,484.10	128.17	12.579	
15,800.00	8,289.00	17,426.37	9,888.00	49.64	52.24	-172.37	-3,635.03	2,454.12	1,612.28	1,482.62	129.66	12.435	
15,900.00	8,289.00	17,526.37	9,888.00	49.46	52.08	-172.37	-3,535.03	2,453.68	1,612.28	1,481.13	131.15	12.293	
16,000.00	8,289.00	17,626.37	9,888.00	49.29	51.92	-172.37	-3,435.03	2,453.25	1,612.28	1,479.64	132.64	12.155	
16,100.00	8,289.00	17,726.37	9,888.00	49.13	51.77	-172.37	-3,335.04	2,452.81	1,612.28	1,478.14	134.13	12.020	
16,200.00	8,289.00	17,826.37	9,888.00	48.98	51.63	-172.37	-3,235.04	2,452.38	1,612.28	1,476.65	135.62	11.888	
16,300.00	8,289.00	17,926.37	9,888.00	48.84	51.49	-172.37	-3,135.04	2,451.94	1,612.27	1,475.15	137.12	11.758	
16,400.00	8,289.00	18,026.37	9,888.00	48.71	51.37	-172.37	-3,035.04	2,451.51	1,612.27	1,473.66	138.62	11.631	
16,500.00	8,289.00	18,126.37	9,888.00	48.59	51.26	-172.37	-2,935.04	2,451.07	1,612.27	1,472.16	140.12	11.507	
16,600.00	8,289.00	18,226.37	9,888.00	48.48	51.16	-172.37	-2,835.04	2,450.64	1,612.27	1,470.66	141.62	11.385	
16,700.00	8,289.00	18,326.37	9,888.00	48.38	51.07	-172.37	-2,735.04	2,450.20	1,612.27	1,469.15	143.12	11.265	
16,800.00	8,289.00	18,426.37	9,888.00	48.29	50.98	-172.37	-2,635.04	2,449.77	1,612.27	1,467.65	144.62	11.148	
16,900.00	8,289.00	18,526.37	9,888.00	48.21	50.91	-172.37	-2,535.04	2,449.33	1,612.27	1,466.15	146.13	11.033	
17,000.00	8,289.00	18,626.37	9,888.00	48.15	50.85	-172.37	-2,435.04	2,448.90	1,612.27	1,464.64	147.63	10.921	
17,100.00	8,289.00	18,726.37	9,888.00	48.09	50.80	-172.37	-2,335.05	2,448.46	1,612.27	1,463.13	149.14	10.811	
17,200.00	8,289.00	18,826.37	9,888.00	48.05	50.76	-172.37	-2,235.05	2,448.03	1,612.27	1,461.62	150.65	10.702	

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 3H
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 3H	**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
17,300.00	8,289.00	18,926.37	9,888.00	48.01	50.73	-172.37	-2,135.05	2,447.59	1,612.27	1,460.11	152.16	10.596	
17,400.00	8,289.00	19,026.37	9,888.00	47.99	50.72	-172.37	-2,035.05	2,447.16	1,612.27	1,458.60	153.67	10.492	
17,500.00	8,289.00	19,126.37	9,888.00	47.99	50.71	-172.37	-1,935.05	2,446.73	1,612.27	1,457.09	155.18	10.390	
17,600.00	8,289.00	19,226.37	9,888.00	47.99	50.72	-172.37	-1,835.05	2,446.29	1,612.27	1,455.58	156.69	10.289	
17,700.00	8,289.00	19,326.37	9,888.00	48.01	50.74	-172.37	-1,735.05	2,445.86	1,612.27	1,454.06	158.21	10.191	
17,800.00	8,289.00	19,426.37	9,888.00	48.04	50.77	-172.37	-1,635.05	2,445.42	1,612.27	1,452.54	159.72	10.094	
17,900.00	8,289.00	19,526.37	9,888.00	48.08	50.81	-172.37	-1,535.05	2,444.99	1,612.27	1,451.03	161.24	9.999	
18,000.00	8,289.00	19,626.37	9,888.00	48.14	50.87	-172.37	-1,435.05	2,444.55	1,612.27	1,449.51	162.76	9.906	
18,100.00	8,289.00	19,726.37	9,888.00	48.21	50.94	-172.37	-1,335.05	2,444.12	1,612.27	1,447.99	164.27	9.814	
18,200.00	8,289.00	19,826.37	9,888.00	48.29	51.02	-172.37	-1,235.06	2,443.68	1,612.26	1,446.47	165.79	9.725	
18,300.00	8,289.00	19,926.37	9,888.00	48.39	51.11	-172.37	-1,135.06	2,443.25	1,612.26	1,444.95	167.31	9.636	
18,400.00	8,289.00	20,026.37	9,888.00	48.50	51.22	-172.37	-1,035.06	2,442.81	1,612.26	1,443.43	168.83	9.549	
18,500.00	8,289.00	20,126.37	9,888.00	48.63	51.34	-172.37	-935.06	2,442.38	1,612.26	1,441.91	170.36	9.464	
18,600.00	8,289.00	8,429.57	8,290.00	48.76	30.92	-90.00	-351.05	1,120.09	1,610.01	1,534.11	75.90	21.213	
18,700.00	8,289.00	8,429.57	8,290.00	48.92	30.92	-90.00	-351.05	1,120.09	1,582.46	1,505.67	76.79	20.607	
18,800.00	8,289.00	8,429.57	8,290.00	49.08	30.92	-90.00	-351.05	1,120.09	1,560.84	1,483.19	77.65	20.102	
18,900.00	8,289.00	8,429.57	8,290.00	49.26	30.92	-90.00	-351.05	1,120.09	1,545.40	1,466.96	78.44	19.702	
19,000.00	8,289.00	8,429.57	8,290.00	49.46	30.92	-90.00	-351.05	1,120.09	1,536.32	1,457.17	79.15	19.411	
19,089.81	8,289.00	8,429.57	8,290.00	49.84	30.92	-90.00	-351.05	1,120.09	1,533.70	1,454.11	79.58	19.272	
19,100.00	8,289.00	8,429.57	8,290.00	50.02	30.92	-90.00	-351.05	1,120.09	1,533.73	1,454.11	79.62	19.264	
19,101.33	8,289.00	8,429.57	8,290.00	50.05	30.92	-90.00	-351.05	1,120.09	1,533.74	1,454.12	79.62	19.263	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	-90.64	-0.45	-39.99	39.99				
100.00	100.00	101.00	101.00	0.28	0.28	-90.64	-0.45	-39.99	39.99	39.44	0.56	71.977	
200.00	200.00	201.00	201.00	0.63	0.64	-90.64	-0.45	-39.99	39.99	38.72	1.27	31.426	
300.00	300.00	301.00	301.00	0.99	1.00	-90.64	-0.45	-39.99	39.99	38.00	1.99	20.102	
400.00	400.00	401.00	401.00	1.35	1.36	-90.64	-0.45	-39.99	39.99	37.29	2.71	14.777	
416.33	416.33	417.33	417.33	1.41	1.41	-90.64	-0.45	-39.99	39.99	37.17	2.82	14.164	CC
500.00	500.00	501.00	501.00	1.71	1.71	-90.64	-0.45	-39.99	39.99	36.57	3.42	11.683	
500.05	500.05	501.05	501.05	1.71	1.71	-90.64	-0.45	-39.99	39.99	36.57	3.42	11.682	
600.00	600.00	600.94	600.92	2.07	2.06	-93.19	-2.23	-39.99	40.05	35.93	4.12	9.716	
700.00	700.00	700.64	700.48	2.43	2.39	-100.59	-7.47	-39.99	40.69	35.87	4.81	8.457	ES
800.00	800.00	800.13	799.62	2.79	2.73	-111.46	-15.72	-39.99	42.99	37.49	5.51	7.808	
900.00	900.00	899.75	898.87	3.14	3.07	-121.39	-24.40	-39.99	46.90	40.69	6.21	7.556	
1,000.00	1,000.00	999.37	998.11	3.50	3.42	-129.60	-33.09	-39.99	51.98	45.07	6.91	7.521	
1,100.00	1,100.00	1,100.58	1,098.93	3.86	3.77	-137.37	-41.60	-38.30	56.58	48.95	7.63	7.417	
1,200.00	1,200.00	1,201.68	1,199.59	4.22	4.13	-146.21	-49.45	-33.10	59.52	51.18	8.35	7.132	
1,300.00	1,300.00	1,302.39	1,299.67	4.58	4.49	-156.66	-56.62	-24.44	61.69	52.63	9.06	6.808	
1,400.00	1,400.00	1,402.47	1,398.81	4.94	4.85	-168.88	-63.09	-12.40	64.34	54.57	9.77	6.584	
1,500.00	1,500.00	1,501.69	1,496.66	5.29	5.20	177.59	-68.86	2.90	69.06	58.58	10.48	6.590	
1,600.00	1,600.00	1,599.82	1,592.91	5.65	5.56	163.92	-73.91	21.30	77.34	66.18	11.17	6.926	
1,700.00	1,700.00	1,696.65	1,687.26	6.01	5.91	151.42	-78.27	42.63	90.18	78.35	11.83	7.623	
1,800.00	1,800.00	1,792.88	1,780.40	6.37	6.26	140.97	-82.05	66.51	107.61	95.13	12.48	8.623	
1,900.00	1,899.98	1,890.00	1,874.32	6.72	6.61	28.79	-85.79	90.98	126.36	113.22	13.14	9.615	
2,000.00	1,999.84	1,987.89	1,968.97	7.06	6.97	23.84	-89.56	115.64	143.45	129.64	13.81	10.385	
2,100.00	2,099.45	2,086.42	2,064.25	7.40	7.34	20.39	-93.35	140.46	158.09	143.59	14.50	10.903	
2,200.00	2,198.70	2,185.49	2,160.04	7.74	7.72	17.90	-97.17	165.42	169.87	154.67	15.20	11.177	
2,300.00	2,297.47	2,284.95	2,256.23	8.09	8.09	16.06	-101.00	190.48	178.58	162.67	15.91	11.226	
2,400.00	2,395.62	2,384.70	2,352.69	8.44	8.47	14.68	-104.84	215.60	184.07	167.45	16.63	11.072	
2,491.84	2,485.13	2,476.46	2,441.41	8.76	8.83	13.72	-108.38	238.72	186.22	168.92	17.29	10.769	
2,500.00	2,493.06	2,484.62	2,449.30	8.79	8.86	13.64	-108.69	240.78	186.28	168.93	17.35	10.736	
2,600.00	2,590.16	2,584.57	2,545.95	9.14	9.24	12.74	-112.54	265.96	187.11	169.03	18.08	10.348	
2,700.00	2,687.25	2,684.53	2,642.61	9.50	9.63	11.84	-116.39	291.13	187.99	169.17	18.82	9.990	
2,800.00	2,784.35	2,784.48	2,739.26	9.86	10.02	10.96	-120.24	316.31	188.92	169.36	19.56	9.658	
2,900.00	2,881.45	2,884.43	2,835.91	10.23	10.41	10.08	-124.09	341.49	189.89	169.58	20.31	9.351	
3,000.00	2,978.55	2,984.39	2,932.57	10.60	10.80	9.21	-127.94	366.67	190.90	169.84	21.05	9.067	
3,100.00	3,075.65	3,084.34	3,029.22	10.96	11.19	8.35	-131.79	391.85	191.95	170.15	21.81	8.802	
3,200.00	3,172.74	3,184.29	3,125.87	11.34	11.58	7.50	-135.64	417.03	193.05	170.49	22.56	8.556	
3,300.00	3,269.84	3,284.25	3,222.53	11.71	11.97	6.66	-139.49	442.21	194.19	170.87	23.32	8.327	
3,400.00	3,366.94	3,384.20	3,319.18	12.08	12.36	5.83	-143.34	467.39	195.38	171.29	24.08	8.112	
3,500.00	3,464.04	3,484.15	3,415.83	12.46	12.76	5.01	-147.19	492.57	196.60	171.75	24.85	7.912	
3,600.00	3,561.14	3,584.11	3,512.48	12.83	13.15	4.20	-151.04	517.75	197.86	172.25	25.61	7.725	
3,700.00	3,658.24	3,684.06	3,609.14	13.21	13.55	3.40	-154.89	542.93	199.16	172.78	26.38	7.549	
3,800.00	3,755.33	3,784.01	3,705.79	13.59	13.94	2.62	-158.74	568.11	200.50	173.35	27.15	7.384	
3,900.00	3,852.43	3,883.97	3,802.44	13.97	14.34	1.84	-162.59	593.29	201.88	173.96	27.93	7.229	
4,000.00	3,949.53	3,983.92	3,899.10	14.35	14.73	1.07	-166.44	618.47	203.30	174.59	28.70	7.083	
4,100.00	4,046.63	4,083.87	3,995.75	14.73	15.13	0.31	-170.29	643.65	204.75	175.27	29.48	6.946	
4,200.00	4,143.73	4,183.82	4,092.40	15.11	15.52	-0.43	-174.14	668.83	206.23	175.98	30.26	6.816	
4,300.00	4,240.82	4,283.78	4,189.05	15.50	15.92	-1.17	-177.99	694.01	207.75	176.72	31.03	6.694	
4,400.00	4,337.92	4,383.73	4,285.71	15.88	16.32	-1.89	-181.84	719.19	209.30	177.49	31.82	6.579	
4,500.00	4,435.02	4,483.68	4,382.36	16.27	16.71	-2.60	-185.69	744.37	210.89	178.29	32.60	6.470	
4,600.00	4,532.12	4,583.64	4,479.01	16.65	17.11	-3.31	-189.54	769.55	212.51	179.13	33.38	6.366	
4,700.00	4,629.22	4,683.59	4,575.67	17.04	17.51	-4.00	-193.39	794.73	214.16	179.99	34.17	6.268	
4,800.00	4,726.31	4,783.54	4,672.32	17.42	17.90	-4.68	-197.24	819.91	215.84	180.89	34.95	6.175	

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 3H
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 3H	**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
4,900.00	4,823.41	4,883.50	4,768.97	17.81	18.30	-5.35	-201.09	845.09	217.55	181.81	35.74	6.087	
5,000.00	4,920.51	4,983.45	4,865.63	18.20	18.70	-6.01	-204.94	870.27	219.29	182.77	36.53	6.004	
5,100.00	5,017.61	5,083.40	4,962.28	18.58	19.10	-6.66	-208.79	895.45	221.06	183.75	37.31	5.924	
5,200.00	5,114.71	5,183.36	5,058.93	18.97	19.50	-7.30	-212.64	920.63	222.86	184.75	38.10	5.849	
5,300.00	5,211.80	5,283.31	5,155.58	19.36	19.89	-7.93	-216.49	945.81	224.68	185.79	38.89	5.777	
5,400.00	5,308.90	5,383.26	5,252.24	19.75	20.29	-8.55	-220.34	970.99	226.53	186.85	39.69	5.708	
5,500.00	5,406.00	5,483.22	5,348.89	20.14	20.69	-9.16	-224.19	996.17	228.41	187.93	40.48	5.643	
5,600.00	5,503.10	5,583.17	5,445.54	20.53	21.09	-9.75	-228.04	1,021.35	230.31	189.04	41.27	5.580	
5,700.00	5,600.20	5,683.12	5,542.20	20.91	21.49	-10.34	-231.89	1,046.53	232.24	190.17	42.06	5.521	
5,800.00	5,697.30	5,783.08	5,638.85	21.30	21.89	-10.92	-235.74	1,071.71	234.19	191.33	42.86	5.464	
5,900.00	5,794.39	5,883.03	5,735.50	21.69	22.29	-11.49	-239.59	1,096.89	236.16	192.51	43.65	5.410	
6,000.00	5,891.49	5,982.98	5,832.15	22.09	22.69	-12.05	-243.44	1,122.07	238.16	193.71	44.45	5.358	
6,100.00	5,988.59	6,082.94	5,928.81	22.48	23.08	-12.60	-247.29	1,147.25	240.18	194.94	45.25	5.308	
6,200.00	6,085.69	6,182.89	6,025.46	22.87	23.48	-13.14	-251.14	1,172.43	242.22	196.18	46.04	5.261	
6,300.00	6,182.79	6,282.84	6,122.11	23.26	23.88	-13.67	-254.99	1,197.61	244.29	197.45	46.84	5.215	
6,400.00	6,279.88	6,382.79	6,218.77	23.65	24.28	-14.20	-258.84	1,222.79	246.37	198.73	47.64	5.172	
6,500.00	6,376.98	6,482.75	6,315.42	24.04	24.68	-14.71	-262.69	1,247.97	248.47	200.04	48.43	5.130	
6,600.00	6,474.08	6,582.70	6,412.07	24.43	25.08	-15.22	-266.54	1,273.15	250.60	201.36	49.23	5.090	
6,700.00	6,571.18	6,682.65	6,508.73	24.82	25.48	-15.72	-270.39	1,298.33	252.74	202.71	50.03	5.052	
6,800.00	6,668.28	6,782.61	6,605.38	25.22	25.88	-16.20	-274.24	1,323.51	254.90	204.07	50.83	5.015	
6,900.00	6,765.37	6,882.56	6,702.03	25.61	26.28	-16.69	-278.09	1,348.69	257.08	205.45	51.63	4.979	
7,000.00	6,862.47	6,982.51	6,798.68	26.00	26.68	-17.16	-281.94	1,373.87	259.28	206.85	52.43	4.945	
7,100.00	6,959.57	7,082.47	6,895.34	26.39	27.08	-17.62	-285.79	1,399.05	261.49	208.26	53.23	4.912	
7,200.00	7,056.67	7,182.42	6,991.99	26.78	27.48	-18.08	-289.64	1,424.23	263.72	209.69	54.03	4.881	
7,300.00	7,153.77	7,282.37	7,088.64	27.18	27.88	-18.53	-293.49	1,449.41	265.97	211.14	54.83	4.851	
7,400.00	7,250.86	7,382.33	7,185.30	27.57	28.28	-18.97	-297.34	1,474.59	268.24	212.60	55.63	4.822	
7,500.00	7,347.96	7,482.28	7,281.95	27.96	28.68	-19.40	-301.19	1,499.77	270.52	214.08	56.43	4.793	
7,600.00	7,445.06	7,582.23	7,378.60	28.36	29.08	-19.83	-305.04	1,524.95	272.81	215.58	57.24	4.766	
7,700.00	7,542.16	7,682.19	7,475.25	28.75	29.48	-20.25	-308.89	1,550.13	275.12	217.08	58.04	4.740	
7,800.00	7,639.26	7,782.14	7,571.91	29.14	29.88	-20.66	-312.74	1,575.31	277.45	218.61	58.84	4.715	
7,900.00	7,736.36	7,884.56	7,671.00	29.54	30.29	-21.09	-316.65	1,600.88	279.57	219.89	59.67	4.685	
7,902.86	7,739.13	7,887.55	7,673.91	29.55	30.30	-21.10	-316.76	1,601.61	279.61	219.91	59.70	4.684	
7,950.00	7,784.76	7,936.90	7,721.80	29.73	30.50	-38.76	-318.56	1,613.38	280.44	220.33	60.11	4.666	
8,000.00	7,832.63	7,988.75	7,772.22	29.93	30.70	-53.77	-320.38	1,625.31	281.80	221.25	60.55	4.654	SF
8,050.00	7,879.58	8,039.69	7,821.87	30.12	30.90	-65.41	-322.11	1,636.59	283.99	223.01	60.98	4.657	
8,100.00	7,925.27	8,089.31	7,870.32	30.31	31.10	-74.77	-323.72	1,647.16	287.55	226.13	61.42	4.682	
8,150.00	7,969.35	8,137.22	7,917.20	30.49	31.28	-82.64	-325.22	1,656.97	293.11	231.27	61.84	4.740	
8,200.00	8,011.47	8,183.05	7,962.11	30.67	31.46	-89.43	-326.60	1,665.99	301.37	239.13	62.24	4.842	
8,250.00	8,051.32	8,226.44	8,004.69	30.83	31.62	-95.27	-327.86	1,674.20	312.99	250.37	62.62	4.998	
8,300.00	8,088.60	8,267.05	8,044.61	30.99	31.78	-100.22	-328.99	1,681.60	328.50	265.53	62.97	5.217	
8,350.00	8,123.02	8,304.58	8,081.54	31.14	31.92	-104.24	-330.00	1,688.19	348.25	284.97	63.28	5.503	
8,400.00	8,154.32	8,338.75	8,115.20	31.28	32.05	-107.28	-330.88	1,693.98	372.33	308.78	63.55	5.859	
8,450.00	8,182.27	8,369.29	8,145.32	31.42	32.16	-109.28	-331.65	1,698.98	400.66	336.87	63.79	6.281	
8,500.00	8,206.64	8,395.99	8,171.68	31.54	32.26	-110.14	-332.30	1,703.23	432.95	368.96	63.98	6.767	
8,550.00	8,227.26	8,418.67	8,194.07	31.66	32.35	-109.73	-332.83	1,706.74	468.80	404.66	64.14	7.309	
8,600.00	8,243.96	8,437.15	8,212.33	31.78	32.42	-107.82	-333.26	1,709.54	507.75	443.48	64.27	7.900	
8,621.67	8,249.95	8,443.82	8,218.93	31.83	32.44	-106.44	-333.41	1,710.54	525.46	461.15	64.32	8.170	
8,700.00	8,267.63	8,463.79	8,238.68	32.00	32.51	-103.80	-333.86	1,713.47	591.95	527.51	64.45	9.185	
8,800.00	8,282.55	8,481.39	8,256.09	32.23	32.58	-97.51	-334.25	1,716.00	680.69	616.12	64.57	10.543	
8,900.00	8,288.79	8,490.07	8,264.68	32.46	32.61	-87.71	-334.44	1,717.23	772.36	707.73	64.63	11.950	
8,921.67	8,289.00	8,490.78	8,265.38	32.51	32.61	-85.14	-334.45	1,717.33	792.48	727.85	64.64	12.260	
9,000.00	8,289.00	8,492.56	8,267.15	32.69	32.62	-85.49	-334.49	1,717.58	865.84	801.18	64.66	13.391	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,289.00	8,494.83	8,269.39	32.94	32.63	-85.94	-334.54	1,717.90	960.62	895.93	64.69	14.851	
9,200.00	8,289.00	8,497.08	8,271.62	33.20	32.64	-86.38	-334.59	1,718.21	1,056.36	991.65	64.71	16.324	
9,300.00	8,289.00	8,499.32	8,273.84	33.48	32.65	-86.82	-334.63	1,718.52	1,152.82	1,088.08	64.74	17.808	
9,400.00	8,289.00	8,501.55	8,276.04	33.77	32.65	-87.25	-334.68	1,718.83	1,249.83	1,185.07	64.76	19.299	
9,500.00	8,289.00	8,503.76	8,278.24	34.07	32.66	-87.69	-334.73	1,719.14	1,347.28	1,282.49	64.79	20.796	
9,600.00	8,289.00	11,044.04	9,673.00	34.38	39.78	-165.92	-1,749.84	1,781.09	1,425.86	1,387.16	38.70	36.847	
9,700.00	8,289.00	11,144.04	9,673.00	34.70	40.08	-165.92	-1,849.84	1,781.53	1,425.86	1,386.30	39.55	36.049	
9,800.00	8,289.00	11,244.04	9,673.00	35.04	40.39	-165.92	-1,949.84	1,781.97	1,425.86	1,385.40	40.45	35.248	
9,900.00	8,289.00	11,344.04	9,673.00	35.39	40.71	-165.92	-2,049.84	1,782.41	1,425.86	1,384.46	41.39	34.448	
10,000.00	8,289.00	11,444.04	9,673.00	35.75	41.04	-165.92	-2,149.84	1,782.85	1,425.85	1,383.49	42.37	33.655	
10,100.00	8,289.00	11,544.04	9,673.00	36.12	41.38	-165.92	-2,249.84	1,783.29	1,425.85	1,382.48	43.38	32.871	
10,200.00	8,289.00	11,644.04	9,673.00	36.51	41.73	-165.92	-2,349.84	1,783.72	1,425.85	1,381.43	44.42	32.100	
10,300.00	8,289.00	11,744.04	9,673.00	36.90	42.09	-165.92	-2,449.84	1,784.16	1,425.85	1,380.36	45.49	31.343	
10,400.00	8,289.00	11,844.04	9,673.00	37.31	42.46	-165.92	-2,549.84	1,784.60	1,425.85	1,379.26	46.59	30.603	
10,500.00	8,289.00	11,944.04	9,673.00	37.72	42.84	-165.92	-2,649.84	1,785.04	1,425.85	1,378.13	47.72	29.881	
10,600.00	8,289.00	12,044.04	9,673.00	38.15	43.23	-165.92	-2,749.84	1,785.48	1,425.85	1,376.98	48.87	29.178	
10,700.00	8,289.00	12,144.04	9,673.00	38.58	43.62	-165.92	-2,849.83	1,785.91	1,425.85	1,375.81	50.04	28.494	
10,800.00	8,289.00	12,244.04	9,673.00	39.03	44.03	-165.92	-2,949.83	1,786.35	1,425.84	1,374.61	51.23	27.830	
10,900.00	8,289.00	12,344.04	9,673.00	39.48	44.44	-165.92	-3,049.83	1,786.79	1,425.84	1,373.40	52.45	27.186	
11,000.00	8,289.00	12,444.04	9,673.00	39.94	44.87	-165.92	-3,149.83	1,787.23	1,425.84	1,372.16	53.68	26.563	
11,100.00	8,289.00	12,544.04	9,673.00	40.41	45.30	-165.92	-3,249.83	1,787.67	1,425.84	1,370.92	54.93	25.959	
11,200.00	8,289.00	12,644.04	9,673.00	40.89	45.74	-165.92	-3,349.83	1,788.11	1,425.84	1,369.65	56.19	25.375	
11,300.00	8,289.00	12,744.04	9,673.00	41.38	46.18	-165.92	-3,449.83	1,788.54	1,425.84	1,368.37	57.47	24.811	
11,400.00	8,289.00	12,844.04	9,673.00	41.88	46.64	-165.92	-3,549.83	1,788.98	1,425.84	1,367.08	58.76	24.265	
11,500.00	8,289.00	12,944.04	9,673.00	42.38	47.10	-165.92	-3,649.83	1,789.42	1,425.84	1,365.77	60.07	23.737	
11,600.00	8,289.00	13,044.04	9,673.00	42.89	47.57	-165.92	-3,749.83	1,789.86	1,425.84	1,364.45	61.38	23.228	
11,700.00	8,289.00	13,144.04	9,673.00	43.41	48.05	-165.92	-3,849.82	1,790.30	1,425.83	1,363.12	62.71	22.736	
11,800.00	8,289.00	13,244.04	9,673.00	43.93	48.53	-165.92	-3,949.82	1,790.74	1,425.83	1,361.78	64.05	22.260	
11,900.00	8,289.00	13,344.04	9,673.00	44.46	49.02	-165.92	-4,049.82	1,791.17	1,425.83	1,360.43	65.40	21.801	
12,000.00	8,289.00	13,444.04	9,673.00	45.00	49.52	-165.92	-4,149.82	1,791.61	1,425.83	1,359.07	66.76	21.357	
12,100.00	8,289.00	13,544.04	9,673.00	45.55	50.02	-165.92	-4,249.82	1,792.05	1,425.83	1,357.70	68.13	20.928	
12,200.00	8,289.00	13,644.04	9,673.00	46.10	50.53	-165.92	-4,349.82	1,792.49	1,425.83	1,356.32	69.51	20.514	
12,300.00	8,289.00	13,744.04	9,673.00	46.65	51.05	-165.92	-4,449.82	1,792.93	1,425.83	1,354.94	70.89	20.113	
12,400.00	8,289.00	13,844.04	9,673.00	47.21	51.57	-165.92	-4,549.82	1,793.37	1,425.83	1,353.54	72.28	19.726	
12,500.00	8,289.00	13,944.04	9,673.00	47.78	52.10	-165.92	-4,649.82	1,793.80	1,425.82	1,352.14	73.68	19.351	
12,600.00	8,289.00	14,044.04	9,673.00	48.35	52.63	-165.92	-4,749.82	1,794.24	1,425.82	1,350.74	75.09	18.989	
12,637.79	8,289.00	14,081.83	9,673.00	48.57	52.83	-165.92	-4,787.61	1,794.41	1,425.82	1,350.20	75.62	18.855	
12,688.51	8,289.00	14,115.99	9,673.00	48.86	53.02	-165.89	-4,821.75	1,795.30	1,426.10	1,349.77	76.33	18.684	
12,700.00	8,289.00	14,123.49	9,673.00	48.93	53.06	-165.87	-4,829.24	1,795.74	1,426.22	1,349.73	76.49	18.646	
12,750.00	8,289.00	14,150.00	9,673.00	49.23	53.20	-165.81	-4,855.65	1,797.95	1,426.53	1,349.33	77.21	18.477	
12,800.00	8,289.00	14,188.79	9,673.00	49.53	53.42	-165.83	-4,894.10	1,803.10	1,426.41	1,348.47	77.94	18.302	
12,850.00	8,289.00	14,221.45	9,673.00	49.84	53.61	-165.93	-4,926.18	1,809.19	1,425.90	1,347.20	78.70	18.118	
12,900.00	8,289.00	14,250.00	9,673.00	50.15	53.78	-166.09	-4,953.95	1,815.81	1,425.02	1,345.53	79.49	17.927	
12,950.00	8,289.00	14,286.89	9,673.00	50.47	53.99	-166.36	-4,989.36	1,826.14	1,423.74	1,343.46	80.28	17.734	
13,000.00	8,289.00	14,319.71	9,673.00	50.79	54.19	-166.69	-5,020.33	1,836.98	1,422.11	1,341.01	81.10	17.534	
13,050.00	8,289.00	14,350.00	9,673.00	51.10	54.37	-167.07	-5,048.40	1,848.35	1,420.16	1,338.21	81.95	17.330	
13,100.00	8,289.00	14,385.63	9,673.00	51.40	54.58	-167.56	-5,080.71	1,863.36	1,417.90	1,335.10	82.80	17.125	
13,150.00	8,289.00	14,418.78	9,673.00	51.70	54.78	-168.09	-5,110.01	1,878.88	1,415.38	1,331.71	83.67	16.917	
13,200.00	8,289.00	14,450.00	9,673.00	51.99	54.97	-168.67	-5,136.84	1,894.82	1,412.64	1,328.07	84.56	16.705	
13,250.00	8,289.00	14,485.60	9,673.00	52.26	55.18	-169.36	-5,166.48	1,914.53	1,409.72	1,324.26	85.46	16.496	
13,300.00	8,289.00	14,519.32	9,673.00	52.52	55.37	-170.08	-5,193.54	1,934.65	1,406.68	1,320.30	86.38	16.285	
13,350.00	8,289.00	14,550.00	9,673.00	52.77	55.55	-170.80	-5,217.22	1,954.14	1,403.57	1,316.24	87.33	16.072	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	8,289.00	14,587.55	9,673.00	53.00	55.77	-171.67	-5,244.94	1,979.47	1,400.45	1,312.19	88.25	15.868	
13,450.00	8,289.00	14,622.14	9,673.00	53.20	55.96	-172.53	-5,269.16	2,004.17	1,397.38	1,308.18	89.21	15.665	
13,500.00	8,289.00	14,657.12	9,673.00	53.39	56.15	-173.43	-5,292.29	2,030.39	1,394.44	1,304.28	90.16	15.466	
13,550.00	8,289.00	14,692.53	9,673.00	53.55	56.34	-174.35	-5,314.26	2,058.16	1,391.68	1,300.57	91.12	15.274	
13,600.00	8,289.00	14,728.44	9,673.00	53.69	56.52	-175.30	-5,334.97	2,087.49	1,389.19	1,297.13	92.06	15.090	
13,650.00	8,289.00	14,764.93	9,673.00	53.80	56.70	-176.27	-5,354.35	2,118.40	1,387.02	1,294.03	92.99	14.916	
13,700.00	8,289.00	14,800.00	9,673.00	53.89	56.87	-177.20	-5,371.34	2,149.08	1,385.26	1,291.34	93.92	14.750	
13,750.00	8,289.00	14,840.01	9,673.00	53.96	57.05	-178.24	-5,388.68	2,185.13	1,383.96	1,289.19	94.76	14.605	
13,800.00	8,289.00	14,878.84	9,673.00	54.00	57.21	-179.23	-5,403.39	2,221.05	1,383.19	1,287.61	95.58	14.472	
13,838.84	8,289.00	14,909.71	9,673.00	54.01	57.34	180.00	-5,413.56	2,250.20	1,383.00	1,286.83	96.17	14.380	
13,850.00	8,289.00	14,918.72	9,673.00	54.02	57.37	179.78	-5,416.27	2,258.79	1,383.02	1,286.68	96.34	14.356	
13,900.00	8,289.00	14,959.83	9,673.00	54.01	57.53	178.79	-5,427.12	2,298.44	1,383.49	1,286.48	97.02	14.260	
13,950.00	8,289.00	15,002.41	9,673.00	53.99	57.67	177.81	-5,435.73	2,340.14	1,384.67	1,287.06	97.61	14.186	
14,000.00	8,289.00	15,046.74	9,673.00	53.94	57.81	176.83	-5,441.81	2,384.04	1,386.59	1,288.49	98.10	14.134	
14,050.00	8,289.00	15,093.17	9,673.00	53.88	57.93	175.85	-5,444.99	2,430.35	1,389.28	1,290.80	98.48	14.107	
14,100.00	8,289.00	15,142.15	9,673.00	53.80	58.04	174.86	-5,444.80	2,479.32	1,392.75	1,294.02	98.74	14.106	
14,150.00	8,289.00	15,194.25	9,673.00	53.70	58.14	173.86	-5,440.59	2,531.23	1,397.00	1,298.14	98.86	14.131	
14,200.00	8,289.00	15,250.19	9,673.00	53.59	58.22	172.83	-5,431.52	2,586.41	1,402.01	1,303.15	98.86	14.182	
14,250.00	8,289.00	15,310.91	9,673.00	53.47	58.27	171.76	-5,416.41	2,645.20	1,407.72	1,308.98	98.74	14.257	
14,300.00	8,289.00	15,377.62	9,673.00	53.33	58.30	170.62	-5,393.64	2,707.88	1,414.04	1,315.52	98.52	14.353	
14,350.00	8,289.00	15,451.88	9,673.00	53.20	58.29	169.41	-5,360.99	2,774.52	1,420.83	1,322.58	98.25	14.461	
14,400.00	8,289.00	15,535.61	9,673.00	53.05	58.23	168.10	-5,315.44	2,844.71	1,427.89	1,329.88	98.01	14.569	
14,450.00	8,289.00	15,631.08	9,673.00	52.91	58.10	166.69	-5,253.12	2,916.94	1,434.93	1,337.01	97.92	14.654	
14,500.00	8,289.00	15,740.67	9,673.00	52.76	57.89	165.24	-5,169.62	2,987.71	1,441.57	1,343.41	98.15	14.687	
14,530.51	8,289.00	15,789.58	9,673.00	52.67	57.79	164.79	-5,128.62	3,014.35	1,445.20	1,346.84	98.36	14.693	
14,600.00	8,289.00	16,008.39	9,673.00	52.46	57.22	162.58	-4,926.45	3,095.21	1,450.71	1,350.31	100.40	14.449	
14,700.00	8,289.00	16,189.21	9,673.00	52.18	56.73	162.34	-4,746.74	3,112.30	1,451.42	1,348.53	102.89	14.106	
14,762.01	8,289.00	16,262.48	9,673.00	52.01	56.54	162.33	-4,673.47	3,113.47	1,451.52	1,347.63	103.89	13.972	
14,800.00	8,289.00	16,303.78	9,673.00	51.90	56.43	162.32	-4,632.17	3,113.37	1,451.54	1,347.09	104.45	13.897	
14,900.00	8,289.00	16,403.78	9,673.00	51.64	56.18	162.32	-4,532.17	3,112.93	1,451.54	1,345.77	105.78	13.723	
15,000.00	8,289.00	16,503.78	9,673.00	51.38	55.94	162.32	-4,432.17	3,112.50	1,451.54	1,344.43	107.11	13.552	
15,100.00	8,289.00	16,603.78	9,673.00	51.14	55.70	162.32	-4,332.18	3,112.06	1,451.55	1,343.09	108.45	13.384	
15,200.00	8,289.00	16,703.78	9,673.00	50.90	55.47	162.32	-4,232.18	3,111.63	1,451.55	1,341.74	109.80	13.220	
15,300.00	8,289.00	16,803.78	9,673.00	50.66	55.25	162.32	-4,132.18	3,111.19	1,451.55	1,340.39	111.16	13.059	
15,400.00	8,289.00	16,903.78	9,673.00	50.44	55.03	162.32	-4,032.18	3,110.75	1,451.55	1,339.03	112.51	12.901	
15,500.00	8,289.00	17,003.78	9,673.00	50.23	54.83	162.32	-3,932.18	3,110.32	1,451.55	1,337.67	113.88	12.746	
15,600.00	8,289.00	17,103.78	9,673.00	50.02	54.63	162.32	-3,832.18	3,109.88	1,451.55	1,336.30	115.25	12.595	
15,700.00	8,289.00	17,203.78	9,673.00	49.82	54.44	162.32	-3,732.18	3,109.45	1,451.55	1,334.93	116.62	12.447	
15,800.00	8,289.00	17,303.78	9,673.00	49.64	54.25	162.32	-3,632.18	3,109.01	1,451.55	1,333.55	118.00	12.301	
15,900.00	8,289.00	17,403.78	9,673.00	49.46	54.08	162.32	-3,532.18	3,108.58	1,451.55	1,332.17	119.38	12.159	
16,000.00	8,289.00	17,503.78	9,673.00	49.29	53.91	162.32	-3,432.18	3,108.14	1,451.55	1,330.78	120.77	12.019	
16,100.00	8,289.00	17,603.78	9,673.00	49.13	53.75	162.32	-3,332.19	3,107.71	1,451.56	1,329.39	122.16	11.882	
16,200.00	8,289.00	17,703.78	9,673.00	48.98	53.60	162.32	-3,232.19	3,107.27	1,451.56	1,328.00	123.56	11.748	
16,300.00	8,289.00	17,803.78	9,673.00	48.84	53.46	162.32	-3,132.19	3,106.83	1,451.56	1,326.60	124.96	11.616	
16,400.00	8,289.00	17,903.78	9,673.00	48.71	53.32	162.32	-3,032.19	3,106.40	1,451.56	1,325.19	126.37	11.487	
16,500.00	8,289.00	18,003.78	9,673.00	48.59	53.20	162.32	-2,932.19	3,105.96	1,451.56	1,323.79	127.77	11.360	
16,600.00	8,289.00	18,103.78	9,673.00	48.48	53.08	162.32	-2,832.19	3,105.53	1,451.56	1,322.38	129.18	11.236	
16,700.00	8,289.00	18,203.78	9,673.00	48.38	52.98	162.32	-2,732.19	3,105.09	1,451.56	1,320.96	130.60	11.115	
16,800.00	8,289.00	18,303.78	9,673.00	48.29	52.88	162.32	-2,632.19	3,104.66	1,451.56	1,319.54	132.02	10.995	
16,900.00	8,289.00	18,403.78	9,673.00	48.21	52.79	162.32	-2,532.19	3,104.22	1,451.56	1,318.12	133.44	10.878	
17,000.00	8,289.00	18,503.78	9,673.00	48.15	52.72	162.32	-2,432.19	3,103.79	1,451.56	1,316.70	134.86	10.763	
17,100.00	8,289.00	18,603.78	9,673.00	48.09	52.65	162.32	-2,332.19	3,103.35	1,451.57	1,315.27	136.29	10.650	

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 3H
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 3H	**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
17,200.00	8,289.00	18,703.78	9,673.00	48.05	52.59	162.32	-2,232.20	3,102.92	1,451.57	1,313.84	137.72	10.540	
17,300.00	8,289.00	18,803.78	9,673.00	48.01	52.55	162.32	-2,132.20	3,102.48	1,451.57	1,312.41	139.16	10.431	
17,400.00	8,289.00	18,903.78	9,673.00	47.99	52.51	162.32	-2,032.20	3,102.04	1,451.57	1,310.97	140.59	10.325	
17,500.00	8,289.00	19,003.78	9,673.00	47.99	52.49	162.32	-1,932.20	3,101.61	1,451.57	1,309.54	142.03	10.220	
17,600.00	8,289.00	19,103.78	9,673.00	47.99	52.48	162.32	-1,832.20	3,101.17	1,451.57	1,308.10	143.47	10.117	
17,700.00	8,289.00	19,203.78	9,673.00	48.01	52.48	162.32	-1,732.20	3,100.74	1,451.57	1,306.65	144.92	10.016	
17,800.00	8,289.00	19,303.78	9,673.00	48.04	52.49	162.32	-1,632.20	3,100.30	1,451.57	1,305.21	146.37	9.917	
17,900.00	8,289.00	19,403.78	9,673.00	48.08	52.51	162.32	-1,532.20	3,099.87	1,451.57	1,303.76	147.82	9.820	
18,000.00	8,289.00	8,642.47	8,415.80	48.14	33.17	-97.81	-337.41	1,736.70	1,438.20	1,365.60	72.60	19.809	
18,100.00	8,289.00	8,640.95	8,414.29	48.21	33.16	-97.72	-337.39	1,736.52	1,363.18	1,289.74	73.44	18.561	
18,200.00	8,289.00	8,639.43	8,412.77	48.29	33.16	-97.62	-337.36	1,736.34	1,291.55	1,217.15	74.40	17.359	
18,300.00	8,289.00	8,637.89	8,411.25	48.39	33.15	-97.53	-337.33	1,736.17	1,223.91	1,148.42	75.49	16.213	
18,400.00	8,289.00	8,636.35	8,409.72	48.50	33.14	-97.43	-337.30	1,735.99	1,160.94	1,084.24	76.70	15.137	
18,500.00	8,289.00	8,634.80	8,408.18	48.63	33.14	-97.34	-337.28	1,735.81	1,103.45	1,025.44	78.02	14.144	
18,600.00	8,289.00	8,633.25	8,406.64	48.76	33.13	-97.24	-337.25	1,735.63	1,052.34	972.93	79.42	13.251	
18,700.00	8,289.00	8,631.68	8,405.09	48.92	33.13	-97.14	-337.22	1,735.45	1,008.58	927.74	80.85	12.475	
18,800.00	8,289.00	8,630.12	8,403.53	49.08	33.12	-97.05	-337.19	1,735.26	973.17	890.92	82.24	11.833	
18,900.00	8,289.00	8,628.54	8,401.96	49.26	33.12	-96.95	-337.17	1,735.08	947.02	863.51	83.51	11.340	
19,000.00	8,289.00	8,626.95	8,400.39	49.46	33.11	-96.85	-337.14	1,734.89	930.94	846.37	84.57	11.008	
19,100.00	8,289.00	8,625.36	8,398.81	50.02	33.10	-96.75	-337.11	1,734.71	925.44	840.26	85.19	10.864	
19,101.06	8,289.00	8,625.35	8,398.79	50.04	33.10	-96.75	-337.11	1,734.71	925.44	840.25	85.19	10.863	
19,101.33	8,289.00	8,625.34	8,398.79	50.05	33.10	-96.75	-337.11	1,734.71	925.44	840.25	85.19	10.863	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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
0.00	0.00	0.00	0.00	0.00	0.00	-90.66	-0.23	-19.99	19.99				
100.00	100.00	100.00	100.00	0.28	0.28	-90.66	-0.23	-19.99	19.99	19.44	0.55	36.213	
200.00	200.00	200.00	200.00	0.63	0.63	-90.66	-0.23	-19.99	19.99	18.72	1.27	15.754	
300.00	300.00	300.00	300.00	0.99	0.99	-90.66	-0.23	-19.99	19.99	18.01	1.99	10.066	
400.00	400.00	400.00	400.00	1.35	1.35	-90.66	-0.23	-19.99	19.99	17.29	2.70	7.396	
500.00	500.00	500.00	500.00	1.71	1.71	-90.66	-0.23	-19.99	19.99	16.57	3.42	5.846	
536.30	536.30	536.30	536.30	1.84	1.84	-90.00	0.00	-19.99	19.99	16.31	3.68	5.432	CC
600.00	600.00	599.97	599.95	2.07	2.07	-85.67	1.51	-19.99	20.05	15.91	4.14	4.847	ES
700.00	700.00	699.69	699.53	2.43	2.43	-71.40	6.73	-19.99	21.10	16.25	4.85	4.349	
800.00	800.00	799.20	798.69	2.79	2.79	-53.19	14.96	-19.99	25.00	19.44	5.56	4.495	
900.00	900.00	898.82	897.93	3.14	3.15	-40.22	23.64	-19.99	31.03	24.75	6.28	4.943	
1,000.00	1,000.00	998.43	997.17	3.50	3.50	-31.73	32.32	-19.99	38.11	31.12	6.99	5.451	
1,100.00	1,100.00	1,099.35	1,097.76	3.86	3.87	-24.79	40.22	-18.57	44.36	36.64	7.72	5.746	
1,200.00	1,200.00	1,200.39	1,198.53	4.22	4.22	-17.03	46.21	-14.16	48.35	39.91	8.44	5.727	
1,300.00	1,300.00	1,301.27	1,299.05	4.58	4.58	-7.65	50.27	-6.76	50.73	41.57	9.16	5.539	
1,400.00	1,400.00	1,401.75	1,398.96	4.94	4.93	3.90	52.40	3.58	52.53	42.66	9.87	5.323	
1,500.00	1,500.00	1,501.57	1,497.90	5.29	5.28	17.66	52.62	16.75	55.27	44.69	10.58	5.225	
1,600.00	1,600.00	1,600.50	1,595.53	5.65	5.63	32.65	50.98	32.67	60.72	49.45	11.27	5.387	
1,700.00	1,700.00	1,698.33	1,691.53	6.01	5.97	47.11	47.54	51.17	70.36	58.42	11.94	5.895	
1,800.00	1,800.00	1,794.89	1,785.64	6.37	6.32	59.56	42.38	72.11	84.87	72.30	12.57	6.752	
1,900.00	1,899.98	1,892.40	1,880.34	6.72	6.67	-36.10	36.31	94.54	101.78	88.56	13.21	7.702	
2,000.00	1,999.84	1,990.63	1,975.74	7.06	7.03	-30.51	30.20	117.14	117.42	103.55	13.87	8.464	
2,100.00	2,099.45	2,089.45	2,071.72	7.40	7.39	-26.94	24.06	139.86	130.78	116.23	14.55	8.988	
2,200.00	2,198.70	2,188.75	2,168.15	7.74	7.76	-24.62	17.88	162.70	141.36	126.11	15.24	9.274	
2,300.00	2,297.47	2,288.39	2,264.93	8.09	8.13	-23.16	11.68	185.62	148.92	132.97	15.95	9.339	
2,400.00	2,395.62	2,388.27	2,361.93	8.44	8.50	-22.36	5.47	208.59	153.33	136.67	16.66	9.203	
2,491.84	2,485.13	2,480.10	2,451.11	8.76	8.85	-22.10	-0.24	229.71	154.55	137.23	17.33	8.921	
2,500.00	2,493.06	2,488.26	2,459.04	8.79	8.88	-22.10	-0.74	231.59	154.54	137.16	17.38	8.890	
2,600.00	2,590.16	2,588.26	2,556.16	9.14	9.26	-22.05	-6.96	254.59	154.39	136.28	18.12	8.523	
2,700.00	2,687.25	2,688.26	2,653.28	9.50	9.64	-22.01	-13.18	277.59	154.24	135.39	18.85	8.182	
2,800.00	2,784.35	2,788.26	2,750.40	9.86	10.02	-21.96	-19.40	300.59	154.09	134.50	19.59	7.865	
2,900.00	2,881.45	2,888.26	2,847.52	10.23	10.40	-21.92	-25.62	323.59	153.94	133.60	20.34	7.569	
3,000.00	2,978.55	2,988.25	2,944.64	10.60	10.79	-21.87	-31.84	346.59	153.79	132.71	21.09	7.293	
3,100.00	3,075.65	3,088.25	3,041.76	10.96	11.17	-21.82	-38.06	369.59	153.64	131.80	21.84	7.035	
3,200.00	3,172.74	3,188.25	3,138.88	11.34	11.56	-21.78	-44.28	392.59	153.50	130.90	22.60	6.793	
3,300.00	3,269.84	3,288.25	3,236.00	11.71	11.94	-21.73	-50.50	415.59	153.35	129.99	23.35	6.566	
3,400.00	3,366.94	3,388.25	3,333.12	12.08	12.33	-21.69	-56.71	438.59	153.20	129.08	24.12	6.353	
3,500.00	3,464.04	3,488.25	3,430.24	12.46	12.72	-21.64	-62.93	461.59	153.05	128.17	24.88	6.152	
3,600.00	3,561.14	3,588.25	3,527.36	12.83	13.11	-21.59	-69.15	484.59	152.90	127.25	25.64	5.962	
3,700.00	3,658.24	3,688.25	3,624.48	13.21	13.49	-21.55	-75.37	507.59	152.75	126.34	26.41	5.784	
3,800.00	3,755.33	3,788.25	3,721.60	13.59	13.88	-21.50	-81.59	530.59	152.60	125.42	27.18	5.614	
3,900.00	3,852.43	3,888.25	3,818.72	13.97	14.27	-21.45	-87.81	553.59	152.45	124.50	27.95	5.454	
4,000.00	3,949.53	3,988.25	3,915.84	14.35	14.66	-21.41	-94.03	576.59	152.30	123.58	28.72	5.303	
4,100.00	4,046.63	4,088.25	4,012.96	14.73	15.05	-21.36	-100.25	599.59	152.16	122.66	29.50	5.158	
4,200.00	4,143.73	4,188.25	4,110.08	15.11	15.44	-21.31	-106.47	622.59	152.01	121.74	30.27	5.022	
4,300.00	4,240.82	4,288.25	4,207.20	15.50	15.83	-21.27	-112.68	645.59	151.86	120.81	31.05	4.891	
4,400.00	4,337.92	4,388.25	4,304.32	15.88	16.23	-21.22	-118.90	668.59	151.71	119.89	31.82	4.767	
4,500.00	4,435.02	4,488.25	4,401.44	16.27	16.62	-21.17	-125.12	691.59	151.56	118.96	32.60	4.649	
4,600.00	4,532.12	4,588.25	4,498.56	16.65	17.01	-21.13	-131.34	714.59	151.42	118.03	33.38	4.536	
4,700.00	4,629.22	4,688.25	4,595.68	17.04	17.40	-21.08	-137.56	737.59	151.27	117.11	34.16	4.428	
4,800.00	4,726.31	4,788.25	4,692.80	17.42	17.79	-21.03	-143.78	760.59	151.12	116.18	34.94	4.325	
4,900.00	4,823.41	4,888.25	4,789.92	17.81	18.18	-20.98	-150.00	783.59	150.97	115.25	35.72	4.226	

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 3H
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 3H	**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
5,000.00	4,920.51	4,988.25	4,887.04	18.20	18.58	-20.94	-156.22	806.59	150.83	114.32	36.50	4.132	
5,100.00	5,017.61	5,088.25	4,984.16	18.58	18.97	-20.89	-162.44	829.59	150.68	113.39	37.29	4.041	
5,200.00	5,114.71	5,188.25	5,081.28	18.97	19.36	-20.84	-168.66	852.59	150.53	112.46	38.07	3.954	
5,300.00	5,211.80	5,288.25	5,178.40	19.36	19.76	-20.79	-174.87	875.59	150.38	111.53	38.85	3.871	
5,400.00	5,308.90	5,388.25	5,275.52	19.75	20.15	-20.75	-181.09	898.59	150.24	110.60	39.64	3.790	
5,500.00	5,406.00	5,488.25	5,372.64	20.14	20.54	-20.70	-187.31	921.59	150.09	109.67	40.42	3.713	
5,600.00	5,503.10	5,588.25	5,469.76	20.53	20.94	-20.65	-193.53	944.59	149.94	108.74	41.21	3.639	
5,700.00	5,600.20	5,688.25	5,566.88	20.91	21.33	-20.60	-199.75	967.59	149.80	107.80	41.99	3.567	
5,800.00	5,697.30	5,788.25	5,664.00	21.30	21.72	-20.55	-205.97	990.59	149.65	106.87	42.78	3.498	
5,900.00	5,794.39	5,888.25	5,761.12	21.69	22.12	-20.50	-212.19	1,013.59	149.50	105.94	43.57	3.432	
6,000.00	5,891.49	5,988.25	5,858.24	22.09	22.51	-20.46	-218.41	1,036.59	149.36	105.00	44.35	3.368	
6,100.00	5,988.59	6,088.25	5,955.36	22.48	22.91	-20.41	-224.63	1,059.59	149.21	104.07	45.14	3.306	
6,200.00	6,085.69	6,188.25	6,052.48	22.87	23.30	-20.36	-230.84	1,082.59	149.06	103.14	45.93	3.246	
6,300.00	6,182.79	6,288.25	6,149.60	23.26	23.69	-20.31	-237.06	1,105.59	148.92	102.20	46.71	3.188	
6,400.00	6,279.88	6,388.25	6,246.72	23.65	24.09	-20.26	-243.28	1,128.59	148.77	101.27	47.50	3.132	
6,500.00	6,376.98	6,488.25	6,343.84	24.04	24.48	-20.21	-249.50	1,151.59	148.63	100.33	48.29	3.078	
6,600.00	6,474.08	6,588.25	6,440.96	24.43	24.88	-20.16	-255.72	1,174.59	148.48	99.40	49.08	3.025	
6,700.00	6,571.18	6,688.25	6,538.08	24.82	25.27	-20.11	-261.94	1,197.59	148.33	98.47	49.87	2.974	
6,800.00	6,668.28	6,788.25	6,635.20	25.22	25.67	-20.07	-268.16	1,220.59	148.19	97.53	50.66	2.925	
6,900.00	6,765.37	6,888.25	6,732.32	25.61	26.06	-20.02	-274.38	1,243.59	148.04	96.60	51.45	2.878	
7,000.00	6,862.47	6,988.25	6,829.44	26.00	26.46	-19.97	-280.60	1,266.59	147.90	95.66	52.24	2.831	
7,100.00	6,959.57	7,088.25	6,926.56	26.39	26.85	-19.92	-286.81	1,289.59	147.75	94.73	53.03	2.786	
7,200.00	7,056.67	7,188.25	7,023.68	26.78	27.25	-19.87	-293.03	1,312.59	147.61	93.79	53.82	2.743	
7,300.00	7,153.77	7,288.25	7,120.80	27.18	27.64	-19.82	-299.25	1,335.59	147.46	92.86	54.61	2.700	
7,400.00	7,250.86	7,388.25	7,217.92	27.57	28.04	-19.77	-305.47	1,358.59	147.32	91.92	55.40	2.659	
7,500.00	7,347.96	7,488.25	7,315.04	27.96	28.43	-19.72	-311.69	1,381.59	147.17	90.99	56.19	2.619	
7,600.00	7,445.06	7,588.25	7,412.16	28.36	28.83	-19.67	-317.91	1,404.59	147.03	90.05	56.98	2.580	
7,700.00	7,542.16	7,688.25	7,509.28	28.75	29.22	-19.62	-324.13	1,427.59	146.88	89.11	57.77	2.543	
7,800.00	7,639.26	7,792.66	7,611.03	29.14	29.63	-19.77	-330.24	1,450.21	145.41	86.79	58.62	2.481	
7,900.00	7,736.36	7,897.43	7,713.90	29.54	30.03	-20.46	-335.41	1,469.31	140.53	81.11	59.42	2.365	
7,902.86	7,739.13	7,900.42	7,716.85	29.55	30.04	-20.49	-335.54	1,469.80	140.34	80.90	59.44	2.361	
7,950.00	7,784.76	7,949.55	7,765.33	29.73	30.23	-39.27	-337.61	1,477.46	137.18	77.37	59.81	2.294	
8,000.00	7,832.63	8,001.03	7,816.27	29.93	30.42	-56.64	-339.55	1,484.62	134.12	73.91	60.21	2.227	
8,050.00	7,879.58	8,051.40	7,866.24	30.12	30.60	-71.76	-341.21	1,490.77	132.24	71.62	60.62	2.181	
8,065.57	7,893.96	8,066.79	7,881.52	30.18	30.66	-76.15	-341.67	1,492.48	132.10	71.35	60.75	2.174	SF
8,100.00	7,925.27	8,100.22	7,914.77	30.31	30.78	-85.47	-342.60	1,495.92	132.91	71.87	61.04	2.177	
8,150.00	7,969.35	8,147.09	7,961.43	30.49	30.94	-98.05	-343.74	1,500.11	137.72	76.27	61.45	2.241	
8,200.00	8,011.47	8,191.60	8,005.81	30.67	31.10	-109.28	-344.63	1,503.41	148.05	86.23	61.82	2.395	
8,250.00	8,051.32	8,233.42	8,047.55	30.83	31.24	-118.89	-345.30	1,505.90	164.62	102.48	62.14	2.649	
8,300.00	8,088.60	8,272.23	8,086.32	30.99	31.38	-126.78	-345.78	1,507.68	187.40	125.00	62.40	3.003	
8,350.00	8,123.02	8,307.77	8,121.83	31.14	31.50	-133.03	-346.11	1,508.88	215.85	153.23	62.62	3.447	
8,400.00	8,154.32	8,339.79	8,153.85	31.28	31.60	-137.82	-346.30	1,509.58	249.20	186.40	62.80	3.968	
8,450.00	8,182.27	8,368.12	8,182.17	31.42	31.70	-141.31	-346.39	1,509.92	286.67	223.72	62.96	4.554	
8,500.00	8,206.64	8,396.43	8,210.48	31.54	31.79	-144.27	-346.45	1,510.00	327.53	264.44	63.09	5.192	
8,550.00	8,227.26	8,453.60	8,267.52	31.66	31.97	-150.87	-350.00	1,510.02	369.91	306.84	63.07	5.865	
8,600.00	8,243.96	8,527.92	8,340.63	31.78	32.20	-157.51	-363.06	1,510.07	412.23	349.84	62.39	6.607	
8,621.67	8,249.95	8,536.57	8,348.91	31.83	32.23	-157.88	-365.61	1,510.08	430.16	367.64	62.51	6.881	
8,700.00	8,267.63	8,826.96	8,599.72	32.00	33.05	-168.19	-505.48	1,510.69	487.21	434.68	52.54	9.274	
8,800.00	8,282.55	9,230.88	8,777.07	32.23	33.98	-170.71	-860.22	1,512.24	509.48	475.26	34.22	14.887	
8,900.00	8,288.79	9,409.62	8,795.61	32.46	34.39	-170.81	-1,037.81	1,513.02	513.59	481.40	32.18	15.959	
8,921.67	8,289.00	9,444.49	8,796.00	32.51	34.47	-170.81	-1,072.68	1,513.18	513.60	481.53	32.07	16.017	
9,000.00	8,289.00	9,522.82	8,796.00	32.69	34.66	-170.81	-1,151.01	1,513.52	513.60	481.07	32.53	15.790	

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 3H
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 3H	**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
9,100.00	8,289.00	9,622.82	8,796.00	32.94	34.90	-170.81	-1,251.01	1,513.96	513.60	480.43	33.17	15.484	
9,200.00	8,289.00	9,722.82	8,796.00	33.20	35.16	-170.81	-1,351.01	1,514.41	513.60	479.72	33.87	15.162	
9,300.00	8,289.00	9,822.82	8,796.00	33.48	35.43	-170.81	-1,451.01	1,514.85	513.60	478.96	34.63	14.829	
9,400.00	8,289.00	9,922.82	8,796.00	33.77	35.71	-170.81	-1,551.01	1,515.29	513.60	478.15	35.45	14.489	
9,500.00	8,289.00	10,022.82	8,796.00	34.07	36.01	-170.81	-1,651.00	1,515.73	513.60	477.28	36.31	14.144	
9,600.00	8,289.00	10,122.82	8,796.00	34.38	36.31	-170.81	-1,751.00	1,516.17	513.60	476.38	37.22	13.799	
9,700.00	8,289.00	10,222.82	8,796.00	34.70	36.63	-170.81	-1,851.00	1,516.61	513.60	475.42	38.17	13.455	
9,800.00	8,289.00	10,322.82	8,796.00	35.04	36.96	-170.81	-1,951.00	1,517.05	513.59	474.43	39.16	13.114	
9,900.00	8,289.00	10,422.82	8,796.00	35.39	37.30	-170.81	-2,051.00	1,517.49	513.59	473.40	40.19	12.778	
10,000.00	8,289.00	10,522.82	8,796.00	35.75	37.65	-170.81	-2,151.00	1,517.94	513.59	472.34	41.25	12.449	
10,100.00	8,289.00	10,622.82	8,796.00	36.12	38.01	-170.81	-2,251.00	1,518.38	513.59	471.25	42.35	12.128	
10,200.00	8,289.00	10,722.82	8,796.00	36.51	38.38	-170.81	-2,351.00	1,518.82	513.59	470.12	43.47	11.815	
10,300.00	8,289.00	10,822.82	8,796.00	36.90	38.76	-170.81	-2,451.00	1,519.26	513.59	468.97	44.62	11.510	
10,400.00	8,289.00	10,922.82	8,796.00	37.31	39.16	-170.81	-2,551.00	1,519.70	513.59	467.80	45.79	11.215	
10,500.00	8,289.00	11,022.82	8,796.00	37.72	39.56	-170.81	-2,650.99	1,520.14	513.59	466.60	46.99	10.929	
10,600.00	8,289.00	11,122.82	8,796.00	38.15	39.97	-170.81	-2,750.99	1,520.58	513.59	465.38	48.21	10.653	
10,700.00	8,289.00	11,222.82	8,796.00	38.58	40.39	-170.81	-2,850.99	1,521.02	513.59	464.14	49.45	10.386	
10,800.00	8,289.00	11,322.82	8,796.00	39.03	40.82	-170.81	-2,950.99	1,521.47	513.59	462.89	50.71	10.129	
10,900.00	8,289.00	11,422.82	8,796.00	39.48	41.27	-170.81	-3,050.99	1,521.91	513.59	461.61	51.98	9.881	
11,000.00	8,289.00	11,522.82	8,796.00	39.94	41.71	-170.81	-3,150.99	1,522.35	513.59	460.32	53.27	9.642	
11,100.00	8,289.00	11,622.82	8,796.00	40.41	42.17	-170.81	-3,250.99	1,522.79	513.59	459.02	54.57	9.411	
11,200.00	8,289.00	11,722.82	8,796.00	40.89	42.64	-170.81	-3,350.99	1,523.23	513.59	457.70	55.89	9.189	
11,300.00	8,289.00	11,822.82	8,796.00	41.38	43.11	-170.81	-3,450.99	1,523.67	513.59	456.37	57.22	8.976	
11,400.00	8,289.00	11,922.82	8,796.00	41.88	43.59	-170.81	-3,550.99	1,524.11	513.59	455.03	58.56	8.770	
11,500.00	8,289.00	12,022.82	8,796.00	42.38	44.08	-170.81	-3,650.98	1,524.55	513.59	453.68	59.91	8.572	
11,600.00	8,289.00	12,122.82	8,796.00	42.89	44.58	-170.81	-3,750.98	1,525.00	513.59	452.31	61.28	8.381	
11,700.00	8,289.00	12,222.82	8,796.00	43.41	45.08	-170.81	-3,850.98	1,525.44	513.59	450.94	62.65	8.198	
11,800.00	8,289.00	12,322.82	8,796.00	43.93	45.59	-170.81	-3,950.98	1,525.88	513.59	449.56	64.03	8.021	
11,900.00	8,289.00	12,422.82	8,796.00	44.46	46.11	-170.81	-4,050.98	1,526.32	513.59	448.17	65.42	7.850	
12,000.00	8,289.00	12,522.82	8,796.00	45.00	46.63	-170.81	-4,150.98	1,526.76	513.59	446.77	66.82	7.686	
12,100.00	8,289.00	12,622.82	8,796.00	45.55	47.16	-170.81	-4,250.98	1,527.20	513.59	445.36	68.22	7.528	
12,200.00	8,289.00	12,722.82	8,796.00	46.10	47.70	-170.81	-4,350.98	1,527.64	513.59	443.95	69.64	7.375	
12,300.00	8,289.00	12,822.82	8,796.00	46.65	48.24	-170.81	-4,450.98	1,528.09	513.59	442.53	71.06	7.228	
12,400.00	8,289.00	12,922.82	8,796.00	47.21	48.79	-170.81	-4,550.98	1,528.53	513.59	441.11	72.48	7.086	
12,500.00	8,289.00	13,022.82	8,796.00	47.78	49.34	-170.81	-4,650.98	1,528.97	513.59	439.68	73.91	6.949	
12,600.00	8,289.00	13,122.82	8,796.00	48.35	49.90	-170.81	-4,750.97	1,529.41	513.59	438.24	75.35	6.816	
12,685.72	8,289.00	13,208.54	8,796.00	48.85	50.39	-170.81	-4,836.69	1,529.79	513.59	437.00	76.58	6.706	
12,688.51	8,289.00	13,209.11	8,796.00	48.86	50.39	-170.81	-4,837.26	1,529.79	513.59	436.95	76.64	6.701	
12,693.46	8,289.00	13,215.43	8,796.00	48.89	50.43	-170.81	-4,843.58	1,529.85	513.59	436.89	76.70	6.696	
12,700.00	8,289.00	13,221.20	8,796.00	48.93	50.46	-170.81	-4,849.35	1,529.96	513.59	436.79	76.80	6.687	
12,750.00	8,289.00	13,265.31	8,796.00	49.23	50.71	-170.84	-4,893.37	1,532.61	513.56	435.95	77.61	6.617	
12,800.00	8,289.00	13,309.43	8,796.00	49.53	50.97	-170.92	-4,937.10	1,538.42	513.44	435.00	78.44	6.546	
12,850.00	8,289.00	13,353.61	8,796.00	49.84	51.24	-171.06	-4,980.35	1,547.38	513.25	433.94	79.30	6.472	
12,900.00	8,289.00	13,400.00	8,796.00	50.15	51.52	-171.26	-5,024.95	1,560.11	512.98	432.84	80.15	6.400	
12,950.00	8,289.00	13,442.25	8,796.00	50.47	51.78	-171.50	-5,064.62	1,574.61	512.64	431.55	81.10	6.321	
13,000.00	8,289.00	13,486.76	8,796.00	50.79	52.06	-171.80	-5,105.23	1,592.81	512.25	430.22	82.03	6.245	
13,050.00	8,289.00	13,531.44	8,796.00	51.10	52.33	-172.16	-5,144.56	1,613.98	511.81	428.83	82.97	6.169	
13,100.00	8,289.00	13,576.31	8,796.00	51.40	52.60	-172.57	-5,182.40	1,638.08	511.32	427.39	83.93	6.092	
13,150.00	8,289.00	13,621.41	8,796.00	51.70	52.87	-173.03	-5,218.56	1,665.02	510.81	425.91	84.90	6.017	
13,200.00	8,289.00	13,666.77	8,796.00	51.99	53.14	-173.53	-5,252.82	1,694.73	510.28	424.41	85.87	5.942	
13,250.00	8,289.00	13,712.40	8,796.00	52.26	53.40	-174.08	-5,284.98	1,727.09	509.75	422.90	86.84	5.870	
13,300.00	8,289.00	13,758.36	8,796.00	52.52	53.65	-174.67	-5,314.85	1,762.00	509.23	421.41	87.82	5.799	

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 3H
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 3H	**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
13,350.00	8,289.00	13,804.66	8,796.00	52.77	53.89	-175.30	-5,342.20	1,799.34	508.74	419.96	88.78	5.731	
13,400.00	8,289.00	13,850.00	8,796.00	53.00	54.12	-175.94	-5,366.19	1,837.81	508.28	418.51	89.77	5.662	
13,450.00	8,289.00	13,898.41	8,796.00	53.20	54.34	-176.66	-5,388.58	1,880.72	507.88	417.24	90.64	5.603	
13,500.00	8,289.00	13,945.92	8,796.00	53.39	54.54	-177.38	-5,407.20	1,924.42	507.54	416.01	91.53	5.545	
13,550.00	8,289.00	13,993.91	8,796.00	53.55	54.73	-178.13	-5,422.51	1,969.88	507.28	414.90	92.37	5.492	
13,600.00	8,289.00	14,042.38	8,796.00	53.69	54.90	-178.89	-5,434.32	2,016.88	507.10	413.93	93.17	5.443	
13,650.00	8,289.00	14,091.38	8,796.00	53.80	55.05	-179.68	-5,442.44	2,065.19	507.01	413.10	93.91	5.399	
13,670.58	8,289.00	14,111.71	8,796.00	53.84	55.11	-180.00	-5,444.67	2,085.40	507.00	412.80	94.20	5.382	
13,700.00	8,289.00	14,140.93	8,796.00	53.89	55.18	179.53	-5,446.70	2,114.54	507.02	412.42	94.60	5.360	
13,750.00	8,289.00	14,191.06	8,796.00	53.96	55.29	178.74	-5,446.95	2,164.65	507.13	411.91	95.21	5.326	
13,800.00	8,289.00	14,241.78	8,796.00	54.00	55.38	177.94	-5,443.03	2,215.21	507.33	411.56	95.77	5.297	
13,850.00	8,289.00	14,293.11	8,796.00	54.02	55.44	177.16	-5,434.81	2,265.87	507.64	411.38	96.26	5.273	
13,900.00	8,289.00	14,345.08	8,796.00	54.01	55.48	176.38	-5,422.21	2,316.27	508.03	411.33	96.70	5.254	
13,950.00	8,289.00	14,397.69	8,796.00	53.99	55.49	175.62	-5,405.15	2,366.02	508.51	411.42	97.09	5.238	
14,000.00	8,289.00	14,450.95	8,796.00	53.94	55.48	174.89	-5,383.61	2,414.70	509.06	411.62	97.44	5.224	
14,050.00	8,289.00	14,504.85	8,796.00	53.88	55.44	174.18	-5,357.58	2,461.89	509.67	411.90	97.77	5.213	
14,100.00	8,289.00	14,559.40	8,796.00	53.80	55.38	173.51	-5,327.12	2,507.11	510.32	412.23	98.09	5.202	
14,150.00	8,289.00	14,614.57	8,796.00	53.70	55.30	172.87	-5,292.35	2,549.92	510.99	412.57	98.43	5.192	
14,200.00	8,289.00	14,670.34	8,796.00	53.59	55.21	172.29	-5,253.43	2,589.84	511.67	412.89	98.79	5.179	
14,250.00	8,289.00	14,726.67	8,796.00	53.47	55.09	171.75	-5,210.60	2,626.41	512.34	413.14	99.20	5.165	
14,300.00	8,289.00	14,783.54	8,796.00	53.33	54.96	171.28	-5,164.15	2,659.18	512.97	413.31	99.66	5.147	
14,350.00	8,289.00	14,840.89	8,796.00	53.20	54.81	170.86	-5,114.43	2,687.71	513.55	413.35	100.20	5.125	
14,400.00	8,289.00	14,898.65	8,796.00	53.05	54.65	170.51	-5,061.88	2,711.64	514.06	413.24	100.82	5.099	
14,450.00	8,289.00	14,956.76	8,796.00	52.91	54.49	170.22	-5,006.97	2,730.61	514.49	412.97	101.52	5.068	
14,500.00	8,289.00	15,015.15	8,796.00	52.76	54.32	170.01	-4,950.24	2,744.34	514.81	412.51	102.30	5.032	
14,530.51	8,289.00	15,050.88	8,796.00	52.67	54.22	169.92	-4,914.98	2,750.06	514.95	412.14	102.81	5.009	
14,600.00	8,289.00	15,128.37	8,796.00	52.46	54.00	170.06	-4,837.75	2,755.90	514.74	410.65	104.09	4.945	
14,700.00	8,289.00	15,231.48	8,796.00	52.18	53.72	170.33	-4,734.67	2,758.45	514.30	408.53	105.77	4.862	
14,761.86	8,289.00	15,294.28	8,796.00	52.01	53.55	170.42	-4,671.87	2,758.35	514.17	407.44	106.74	4.817	
14,762.01	8,289.00	15,294.44	8,796.00	52.01	53.55	170.42	-4,671.71	2,758.35	514.17	407.43	106.74	4.817	
14,800.00	8,289.00	15,332.43	8,796.00	51.90	53.45	170.42	-4,633.72	2,758.19	514.18	406.88	107.29	4.792	
14,900.00	8,289.00	15,432.43	8,796.00	51.64	53.19	170.42	-4,533.73	2,757.76	514.18	405.42	108.75	4.728	
15,000.00	8,289.00	15,532.43	8,796.00	51.38	52.94	170.41	-4,433.73	2,757.33	514.18	403.96	110.22	4.665	
15,100.00	8,289.00	15,632.43	8,796.00	51.14	52.70	170.41	-4,333.73	2,756.90	514.18	402.50	111.68	4.604	
15,200.00	8,289.00	15,732.43	8,796.00	50.90	52.47	170.41	-4,233.73	2,756.47	514.18	401.03	113.15	4.544	
15,300.00	8,289.00	15,832.43	8,796.00	50.66	52.24	170.41	-4,133.73	2,756.04	514.18	399.56	114.62	4.486	
15,400.00	8,289.00	15,932.43	8,796.00	50.44	52.03	170.41	-4,033.73	2,755.61	514.18	398.09	116.09	4.429	
15,500.00	8,289.00	16,032.43	8,796.00	50.23	51.82	170.41	-3,933.73	2,755.18	514.19	396.62	117.57	4.373	
15,600.00	8,289.00	16,132.43	8,796.00	50.02	51.62	170.41	-3,833.73	2,754.75	514.19	395.14	119.05	4.319	
15,700.00	8,289.00	16,232.43	8,796.00	49.82	51.43	170.41	-3,733.73	2,754.32	514.19	393.66	120.53	4.266	
15,800.00	8,289.00	16,332.43	8,796.00	49.64	51.25	170.41	-3,633.73	2,753.89	514.19	392.18	122.01	4.214	
15,900.00	8,289.00	16,432.43	8,796.00	49.46	51.07	170.41	-3,533.73	2,753.46	514.19	390.70	123.49	4.164	
16,000.00	8,289.00	16,532.43	8,796.00	49.29	50.91	170.41	-3,433.74	2,753.03	514.19	389.21	124.98	4.114	
16,100.00	8,289.00	16,632.43	8,796.00	49.13	50.75	170.40	-3,333.74	2,752.60	514.19	387.72	126.47	4.066	
16,200.00	8,289.00	16,732.43	8,796.00	48.98	50.61	170.40	-3,233.74	2,752.17	514.20	386.24	127.96	4.018	
16,300.00	8,289.00	16,832.43	8,796.00	48.84	50.47	170.40	-3,133.74	2,751.74	514.20	384.75	129.45	3.972	
16,400.00	8,289.00	16,932.43	8,796.00	48.71	50.35	170.40	-3,033.74	2,751.31	514.20	383.25	130.95	3.927	
16,500.00	8,289.00	17,032.43	8,796.00	48.59	50.23	170.40	-2,933.74	2,750.88	514.20	381.76	132.44	3.882	
16,600.00	8,289.00	17,132.43	8,796.00	48.48	50.12	170.40	-2,833.74	2,750.45	514.20	380.26	133.94	3.839	
16,700.00	8,289.00	17,232.43	8,796.00	48.38	50.03	170.40	-2,733.74	2,750.02	514.20	378.77	135.44	3.797	
16,800.00	8,289.00	17,332.43	8,796.00	48.29	49.94	170.40	-2,633.74	2,749.59	514.21	377.27	136.94	3.755	
16,900.00	8,289.00	17,432.43	8,796.00	48.21	49.86	170.40	-2,533.74	2,749.16	514.21	375.77	138.44	3.714	

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 3H
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 3H	**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:

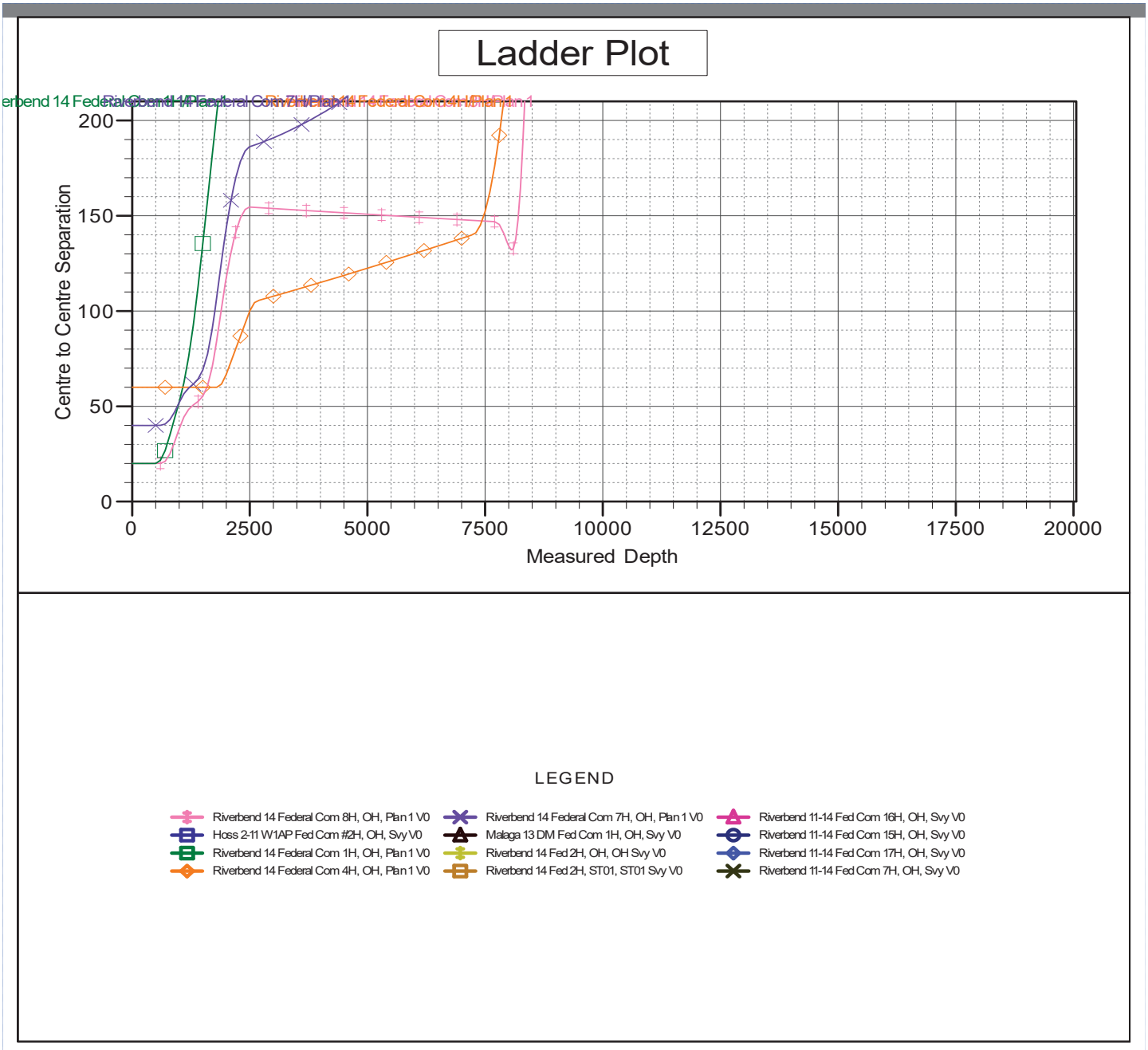
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,000.00	8,289.00	17,532.43	8,796.00	48.15	49.80	170.40	-2,433.74	2,748.73	514.21	374.27	139.94	3.674	
17,100.00	8,289.00	17,632.43	8,796.00	48.09	49.75	170.39	-2,333.75	2,748.30	514.21	372.76	141.45	3.635	
17,200.00	8,289.00	17,732.43	8,796.00	48.05	49.70	170.39	-2,233.75	2,747.87	514.21	371.26	142.95	3.597	
17,300.00	8,289.00	17,832.43	8,796.00	48.01	49.67	170.39	-2,133.75	2,747.45	514.21	369.75	144.46	3.560	
17,400.00	8,289.00	17,932.43	8,796.00	47.99	49.65	170.39	-2,033.75	2,747.02	514.21	368.25	145.97	3.523	
17,500.00	8,289.00	18,032.43	8,796.00	47.99	49.65	170.39	-1,933.75	2,746.59	514.22	366.74	147.48	3.487	
17,600.00	8,289.00	18,132.43	8,796.00	47.99	49.65	170.39	-1,833.75	2,746.16	514.22	365.23	148.99	3.451	
17,700.00	8,289.00	18,232.43	8,796.00	48.01	49.67	170.39	-1,733.75	2,745.73	514.22	363.72	150.50	3.417	
17,800.00	8,289.00	18,332.43	8,796.00	48.04	49.70	170.39	-1,633.75	2,745.30	514.22	362.21	152.01	3.383	
17,900.00	8,289.00	18,432.43	8,796.00	48.08	49.74	170.39	-1,533.75	2,744.87	514.22	360.69	153.53	3.349	
18,000.00	8,289.00	18,532.43	8,796.00	48.14	49.80	170.39	-1,433.75	2,744.44	514.22	359.18	155.04	3.317	
18,100.00	8,289.00	18,632.43	8,796.00	48.21	49.87	170.38	-1,333.75	2,744.01	514.22	357.67	156.56	3.285	
18,200.00	8,289.00	18,732.43	8,796.00	48.29	49.95	170.38	-1,233.76	2,743.58	514.23	356.15	158.08	3.253	
18,300.00	8,289.00	18,832.43	8,796.00	48.39	50.05	170.38	-1,133.76	2,743.15	514.23	354.63	159.59	3.222	
18,400.00	8,289.00	18,932.43	8,796.00	48.50	50.16	170.38	-1,033.76	2,742.72	514.23	353.12	161.11	3.192	
18,500.00	8,289.00	19,032.43	8,796.00	48.63	50.28	170.38	-933.76	2,742.29	514.23	351.60	162.63	3.162	
18,600.00	8,289.00	19,132.43	8,796.00	48.76	50.42	170.38	-833.76	2,741.86	514.23	350.08	164.15	3.133	
18,700.00	8,289.00	19,232.43	8,796.00	48.92	50.57	170.38	-733.76	2,741.43	514.23	348.56	165.68	3.104	
18,800.00	8,289.00	19,332.43	8,796.00	49.08	50.73	170.38	-633.76	2,741.00	514.23	347.04	167.20	3.076	
18,900.00	8,289.00	19,432.43	8,796.00	49.26	50.91	170.38	-533.76	2,740.57	514.24	345.51	168.72	3.048	
19,000.00	8,289.00	19,532.43	8,796.00	49.46	51.10	170.38	-433.76	2,740.14	514.24	343.99	170.25	3.021	
19,100.00	8,289.00	19,632.43	8,796.00	50.02	51.30	170.37	-333.76	2,739.71	514.24	342.85	171.39	3.000	
19,101.33	8,289.00	19,633.76	8,796.00	50.05	51.30	170.37	-332.43	2,739.70	514.24	342.83	171.40	3.000	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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 3H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.15°



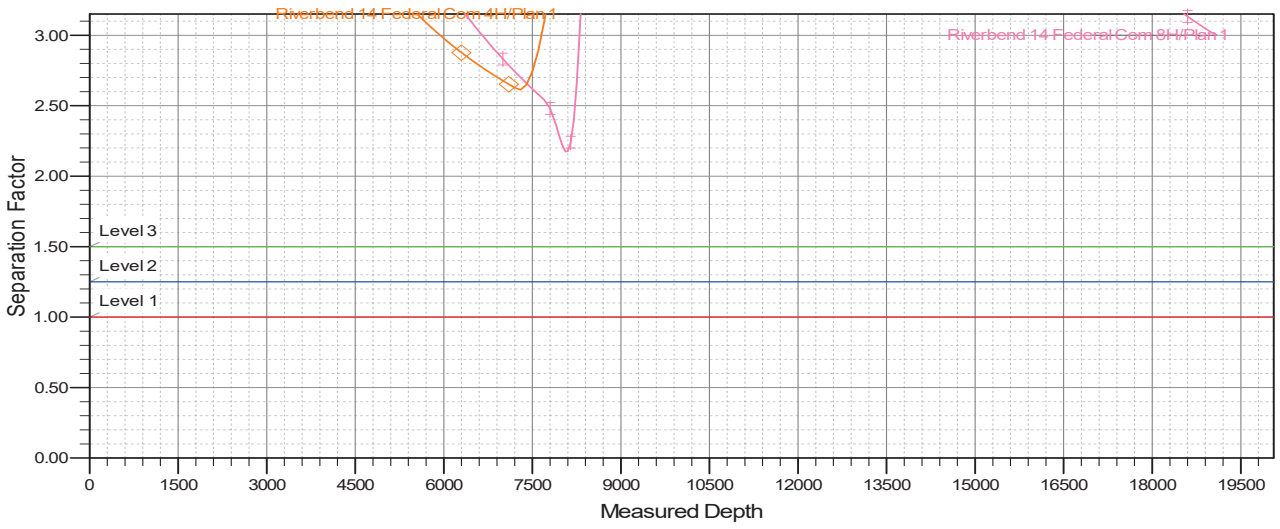
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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 3H
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	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 1H, 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

COMPANY	Coterra Energy
FIELD	Eddy County, NM (NAD 83)
SITE	Riverbend 14 Federal Com
WELL	Riverbend 14 Federal Com 3H
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	-104.060496
WELL EW MAI	625786.84
WELL NS MAP	414092.74
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 - 19100.64 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	0.00	0.00	100.00	600.00	2358.00	0.00
700.00	0.00	0.00	100.00	700.00	2258.00	0.00
800.00	0.00	0.00	100.00	800.00	2158.00	0.00
900.00	0.00	0.00	100.00	900.00	2058.00	0.00
1000.00	0.00	0.00	100.00	1000.00	1958.00	0.00
1100.00	0.00	0.00	100.00	1100.00	1858.00	0.00
1200.00	0.00	0.00	100.00	1200.00	1758.00	0.00
1300.00	0.00	0.00	100.00	1300.00	1658.00	0.00

1400.00	0.00	0.00	100.00	1400.00	1558.00	0.00
1500.00	0.00	0.00	100.00	1500.00	1458.00	0.00
1600.00	0.00	0.00	100.00	1600.00	1358.00	0.00
1700.00	0.00	0.00	100.00	1700.00	1258.00	0.00
1800.00	0.00	0.00	100.00	1800.00	1158.00	0.00
1900.00	2.00	104.72	100.00	1899.98	1058.02	-0.44
2000.00	4.00	104.72	100.00	1999.84	958.16	-1.77
2100.00	6.00	104.72	100.00	2099.45	858.55	-3.99
2200.00	8.00	104.72	100.00	2198.70	759.30	-7.09
2300.00	10.00	104.72	100.00	2297.47	660.54	-11.06
2400.00	12.00	104.72	100.00	2395.62	562.38	-15.91
2491.84	13.84	104.72	91.84	2485.13	472.87	-21.13
2500.00	13.84	104.72	8.16	2493.06	464.94	-21.62
2600.00	13.84	104.72	100.00	2590.16	367.84	-27.70
2700.00	13.84	104.72	100.00	2687.25	270.75	-33.78
2800.00	13.84	104.72	100.00	2784.35	173.65	-39.86
2900.00	13.84	104.72	100.00	2881.45	76.55	-45.94
3000.00	13.84	104.72	100.00	2978.55	-20.55	-52.01
3100.00	13.84	104.72	100.00	3075.65	-117.65	-58.09
3200.00	13.84	104.72	100.00	3172.75	-214.75	-64.17
3300.00	13.84	104.72	100.00	3269.84	-311.84	-70.25
3400.00	13.84	104.72	100.00	3366.94	-408.94	-76.32
3500.00	13.84	104.72	100.00	3464.04	-506.04	-82.40
3600.00	13.84	104.72	100.00	3561.14	-603.14	-88.48
3700.00	13.84	104.72	100.00	3658.24	-700.24	-94.56
3800.00	13.84	104.72	100.00	3755.33	-797.33	-100.64
3900.00	13.84	104.72	100.00	3852.43	-894.43	-106.71
4000.00	13.84	104.72	100.00	3949.53	-991.53	-112.79
4100.00	13.84	104.72	100.00	4046.63	-1088.63	-118.87
4200.00	13.84	104.72	100.00	4143.73	-1185.73	-124.95
4300.00	13.84	104.72	100.00	4240.82	-1282.82	-131.02
4400.00	13.84	104.72	100.00	4337.92	-1379.92	-137.10
4500.00	13.84	104.72	100.00	4435.02	-1477.02	-143.18
4600.00	13.84	104.72	100.00	4532.12	-1574.12	-149.26
4700.00	13.84	104.72	100.00	4629.22	-1671.22	-155.34
4800.00	13.84	104.72	100.00	4726.31	-1768.31	-161.41
4900.00	13.84	104.72	100.00	4823.41	-1865.41	-167.49
5000.00	13.84	104.72	100.00	4920.51	-1962.51	-173.57
5100.00	13.84	104.72	100.00	5017.61	-2059.61	-179.65
5200.00	13.84	104.72	100.00	5114.71	-2156.71	-185.73
5300.00	13.84	104.72	100.00	5211.81	-2253.81	-191.80
5400.00	13.84	104.72	100.00	5308.90	-2350.90	-197.88
5500.00	13.84	104.72	100.00	5406.00	-2448.00	-203.96
5600.00	13.84	104.72	100.00	5503.10	-2545.10	-210.04

5700.00	13.84	104.72	100.00	5600.20	-2642.20	-216.11
5800.00	13.84	104.72	100.00	5697.30	-2739.30	-222.19
5900.00	13.84	104.72	100.00	5794.39	-2836.39	-228.27
6000.00	13.84	104.72	100.00	5891.49	-2933.49	-234.35
6100.00	13.84	104.72	100.00	5988.59	-3030.59	-240.43
6200.00	13.84	104.72	100.00	6085.69	-3127.69	-246.50
6300.00	13.84	104.72	100.00	6182.79	-3224.79	-252.58
6400.00	13.84	104.72	100.00	6279.88	-3321.88	-258.66
6500.00	13.84	104.72	100.00	6376.98	-3418.98	-264.74
6600.00	13.84	104.72	100.00	6474.08	-3516.08	-270.81
6700.00	13.84	104.72	100.00	6571.18	-3613.18	-276.89
6800.00	13.84	104.72	100.00	6668.28	-3710.28	-282.97
6900.00	13.84	104.72	100.00	6765.37	-3807.37	-289.05
7000.00	13.84	104.72	100.00	6862.47	-3904.47	-295.13
7100.00	13.84	104.72	100.00	6959.57	-4001.57	-301.20
7200.00	13.84	104.72	100.00	7056.67	-4098.67	-307.28
7300.00	13.84	104.72	100.00	7153.77	-4195.77	-313.36
7400.00	13.84	104.72	100.00	7250.87	-4292.87	-319.44
7500.00	13.84	104.72	100.00	7347.96	-4389.96	-325.52
7600.00	13.84	104.72	100.00	7445.06	-4487.06	-331.59
7700.00	13.84	104.72	100.00	7542.16	-4584.16	-337.67
7800.00	13.84	104.72	100.00	7639.26	-4681.26	-343.75
7902.86	13.84	104.72	102.86	7739.13	-4781.13	-350.00
7950.00	15.43	122.38	47.14	7784.76	-4826.76	-354.79
8000.00	18.31	136.56	50.00	7832.63	-4874.63	-364.06
8050.00	21.94	146.60	50.00	7879.58	-4921.58	-377.57
8100.00	26.01	153.78	50.00	7925.27	-4967.27	-395.21
8150.00	30.34	159.08	50.00	7969.35	-5011.35	-416.85
8200.00	34.84	163.15	50.00	8011.47	-5053.47	-442.33
8250.00	39.44	166.38	50.00	8051.32	-5093.32	-471.45
8300.00	44.12	169.04	50.00	8088.60	-5130.60	-503.99
8350.00	48.85	171.27	50.00	8123.02	-5165.02	-539.71
8400.00	53.62	173.21	50.00	8154.32	-5196.32	-578.32
8450.00	58.41	174.92	50.00	8182.27	-5224.27	-619.55
8500.00	63.23	176.46	50.00	8206.64	-5248.64	-663.06
8550.00	68.06	177.88	50.00	8227.26	-5269.26	-708.54
8600.00	72.90	179.20	50.00	8243.96	-5285.96	-755.64
8621.67	75.00	179.75	21.67	8249.95	-5291.95	-776.46
8700.00	78.92	179.75	78.33	8267.63	-5309.63	-852.75
8800.00	83.92	179.75	100.00	8282.55	-5324.55	-951.60
8900.00	88.92	179.75	100.00	8288.79	-5330.79	-1051.37
8921.67	90.00	179.75	21.67	8289.00	-5331.00	-1073.04
9000.00	90.00	179.75	78.33	8289.00	-5331.00	-1151.37
9100.00	90.00	179.75	100.00	8289.00	-5331.00	-1251.37

9200.00	90.00	179.75	100.00	8289.00	-5331.00	-1351.37
9300.00	90.00	179.75	100.00	8289.00	-5331.00	-1451.37
9400.00	90.00	179.75	100.00	8289.00	-5331.00	-1551.37
9500.00	90.00	179.75	100.00	8289.00	-5331.00	-1651.37
9600.00	90.00	179.75	100.00	8289.00	-5331.00	-1751.37
9700.00	90.00	179.75	100.00	8289.00	-5331.00	-1851.36
9800.00	90.00	179.75	100.00	8289.00	-5331.00	-1951.36
9900.00	90.00	179.75	100.00	8289.00	-5331.00	-2051.36
10000.00	90.00	179.75	100.00	8289.00	-5331.00	-2151.36
10100.00	90.00	179.75	100.00	8289.00	-5331.00	-2251.36
10200.00	90.00	179.75	100.00	8289.00	-5331.00	-2351.36
10300.00	90.00	179.75	100.00	8289.00	-5331.00	-2451.36
10400.00	90.00	179.75	100.00	8289.00	-5331.00	-2551.36
10500.00	90.00	179.75	100.00	8289.00	-5331.00	-2651.36
10600.00	90.00	179.75	100.00	8289.00	-5331.00	-2751.36
10700.00	90.00	179.75	100.00	8289.00	-5331.00	-2851.35
10800.00	90.00	179.75	100.00	8289.00	-5331.00	-2951.35
10900.00	90.00	179.75	100.00	8289.00	-5331.00	-3051.35
11000.00	90.00	179.75	100.00	8289.00	-5331.00	-3151.35
11100.00	90.00	179.75	100.00	8289.00	-5331.00	-3251.35
11200.00	90.00	179.75	100.00	8289.00	-5331.00	-3351.35
11300.00	90.00	179.75	100.00	8289.00	-5331.00	-3451.35
11400.00	90.00	179.75	100.00	8289.00	-5331.00	-3551.35
11500.00	90.00	179.75	100.00	8289.00	-5331.00	-3651.35
11600.00	90.00	179.75	100.00	8289.00	-5331.00	-3751.35
11700.00	90.00	179.75	100.00	8289.00	-5331.00	-3851.35
11800.00	90.00	179.75	100.00	8289.00	-5331.00	-3951.34
11900.00	90.00	179.75	100.00	8289.00	-5331.00	-4051.34
12000.00	90.00	179.75	100.00	8289.00	-5331.00	-4151.34
12100.00	90.00	179.75	100.00	8289.00	-5331.00	-4251.34
12200.00	90.00	179.75	100.00	8289.00	-5331.00	-4351.34
12300.00	90.00	179.75	100.00	8289.00	-5331.00	-4451.34
12400.00	90.00	179.75	100.00	8289.00	-5331.00	-4551.34
12500.00	90.00	179.75	100.00	8289.00	-5331.00	-4651.34
12600.00	90.00	179.75	100.00	8289.00	-5331.00	-4751.34
12688.51	90.00	179.75	88.51	8289.00	-5331.00	-4839.84
12700.00	90.00	178.66	11.50	8289.00	-5331.00	-4851.33
12750.00	90.00	173.95	50.00	8289.00	-5331.00	-4901.22
12800.00	90.00	169.24	50.00	8289.00	-5331.00	-4950.67
12850.00	90.00	164.53	50.00	8289.00	-5331.00	-4999.35
12900.00	90.00	159.82	50.00	8289.00	-5331.00	-5046.94
12950.00	90.00	155.11	50.00	8289.00	-5331.00	-5093.11
13000.00	90.00	150.40	50.00	8289.00	-5331.00	-5137.55
13050.00	90.00	145.69	50.00	8289.00	-5331.00	-5179.96

13100.00	90.00	140.98	50.00	8289.00	-5331.00	-5220.06
13150.00	90.00	136.27	50.00	8289.00	-5331.00	-5257.57
13200.00	90.00	131.56	50.00	8289.00	-5331.00	-5292.24
13250.00	90.00	126.85	50.00	8289.00	-5331.00	-5323.84
13300.00	90.00	122.14	50.00	8289.00	-5331.00	-5352.15
13350.00	90.00	117.43	50.00	8289.00	-5331.00	-5376.98
13400.00	90.00	112.72	50.00	8289.00	-5331.00	-5398.17
13450.00	90.00	108.01	50.00	8289.00	-5331.00	-5415.57
13500.00	90.00	103.30	50.00	8289.00	-5331.00	-5429.06
13550.00	90.00	98.59	50.00	8289.00	-5331.00	-5438.55
13600.00	90.00	93.88	50.00	8289.00	-5331.00	-5443.98
13650.00	90.00	89.17	50.00	8289.00	-5331.00	-5445.32
13700.00	90.00	84.46	50.00	8289.00	-5331.00	-5442.54
13750.00	90.00	79.75	50.00	8289.00	-5331.00	-5435.68
13800.00	90.00	75.04	50.00	8289.00	-5331.00	-5424.78
13850.00	90.00	70.33	50.00	8289.00	-5331.00	-5409.90
13900.00	90.00	65.62	50.00	8289.00	-5331.00	-5391.16
13950.00	90.00	60.91	50.00	8289.00	-5331.00	-5368.67
14000.00	90.00	56.20	50.00	8289.00	-5331.00	-5342.60
14050.00	90.00	51.49	50.00	8289.00	-5331.00	-5313.11
14100.00	90.00	46.78	50.00	8289.00	-5331.00	-5280.41
14150.00	90.00	42.07	50.00	8289.00	-5331.00	-5244.71
14200.00	90.00	37.36	50.00	8289.00	-5331.00	-5206.26
14250.00	90.00	32.65	50.00	8289.00	-5331.00	-5165.32
14300.00	90.00	27.94	50.00	8289.00	-5331.00	-5122.16
14350.00	90.00	23.23	50.00	8289.00	-5331.00	-5077.08
14400.00	90.00	18.52	50.00	8289.00	-5331.00	-5030.38
14450.00	90.00	13.81	50.00	8289.00	-5331.00	-4982.37
14500.00	90.00	9.10	50.00	8289.00	-5331.00	-4933.38
14530.51	90.00	6.23	30.51	8289.00	-5331.00	-4903.15
14600.00	90.00	4.28	69.50	8289.00	-5331.00	-4833.95
14700.00	90.00	1.49	100.00	8289.00	-5331.00	-4734.09
14762.01	90.00	359.75	62.01	8289.00	-5331.00	-4672.08
14800.00	90.00	359.75	37.99	8289.00	-5331.00	-4634.09
14900.00	90.00	359.75	100.00	8289.00	-5331.00	-4534.09
15000.00	90.00	359.75	100.00	8289.00	-5331.00	-4434.09
15100.00	90.00	359.75	100.00	8289.00	-5331.00	-4334.10
15200.00	90.00	359.75	100.00	8289.00	-5331.00	-4234.10
15300.00	90.00	359.75	100.00	8289.00	-5331.00	-4134.10
15400.00	90.00	359.75	100.00	8289.00	-5331.00	-4034.10
15500.00	90.00	359.75	100.00	8289.00	-5331.00	-3934.10
15600.00	90.00	359.75	100.00	8289.00	-5331.00	-3834.10
15700.00	90.00	359.75	100.00	8289.00	-5331.00	-3734.10
15800.00	90.00	359.75	100.00	8289.00	-5331.00	-3634.10

15900.00	90.00	359.75	100.00	8289.00	-5331.00	-3534.10
16000.00	90.00	359.75	100.00	8289.00	-5331.00	-3434.10
16100.00	90.00	359.75	100.00	8289.00	-5331.00	-3334.11
16200.00	90.00	359.75	100.00	8289.00	-5331.00	-3234.11
16300.00	90.00	359.75	100.00	8289.00	-5331.00	-3134.11
16400.00	90.00	359.75	100.00	8289.00	-5331.00	-3034.11
16500.00	90.00	359.75	100.00	8289.00	-5331.00	-2934.11
16600.00	90.00	359.75	100.00	8289.00	-5331.00	-2834.11
16700.00	90.00	359.75	100.00	8289.00	-5331.00	-2734.11
16800.00	90.00	359.75	100.00	8289.00	-5331.00	-2634.11
16900.00	90.00	359.75	100.00	8289.00	-5331.00	-2534.11
17000.00	90.00	359.75	100.00	8289.00	-5331.00	-2434.11
17100.00	90.00	359.75	100.00	8289.00	-5331.00	-2334.11
17200.00	90.00	359.75	100.00	8289.00	-5331.00	-2234.12
17300.00	90.00	359.75	100.00	8289.00	-5331.00	-2134.12
17400.00	90.00	359.75	100.00	8289.00	-5331.00	-2034.12
17500.00	90.00	359.75	100.00	8289.00	-5331.00	-1934.12
17600.00	90.00	359.75	100.00	8289.00	-5331.00	-1834.12
17700.00	90.00	359.75	100.00	8289.00	-5331.00	-1734.12
17800.00	90.00	359.75	100.00	8289.00	-5331.00	-1634.12
17900.00	90.00	359.75	100.00	8289.00	-5331.00	-1534.12
18000.00	90.00	359.75	100.00	8289.00	-5331.00	-1434.12
18100.00	90.00	359.75	100.00	8289.00	-5331.00	-1334.12
18200.00	90.00	359.75	100.00	8289.00	-5331.00	-1234.13
18300.00	90.00	359.75	100.00	8289.00	-5331.00	-1134.13
18400.00	90.00	359.75	100.00	8289.00	-5331.00	-1034.13
18500.00	90.00	359.75	100.00	8289.00	-5331.00	-934.13
18600.00	90.00	359.75	100.00	8289.00	-5331.00	-834.13
18700.00	90.00	359.75	100.00	8289.00	-5331.00	-734.13
18800.00	90.00	359.75	100.00	8289.00	-5331.00	-634.13
18900.00	90.00	359.75	100.00	8289.00	-5331.00	-534.13
19000.00	90.00	359.75	100.00	8289.00	-5331.00	-434.13
19101.33	90.00	359.75	101.33	8289.00	-5331.00	-332.80

Local E/-W EW	Easting X	Northing Y	Latitude LAT	Longitude LON	Dogleg Severi DLS	Build Rate BLD
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00

0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
1.69	625788.53	414092.30	32.138124	-104.060491	2.00	2.00
6.75	625793.59	414090.97	32.138121	-104.060474	2.00	2.00
15.18	625802.02	414088.75	32.138115	-104.060447	2.00	2.00
26.97	625813.81	414085.66	32.138106	-104.060409	2.00	2.00
42.09	625828.93	414081.68	32.138095	-104.060360	2.00	2.00
60.55	625847.39	414076.83	32.138081	-104.060301	2.00	2.00
80.40	625867.24	414071.61	32.138067	-104.060237	2.00	2.00
82.29	625869.13	414071.12	32.138066	-104.060231	0.00	0.00
105.42	625892.26	414065.04	32.138049	-104.060156	0.00	0.00
128.55	625915.39	414058.96	32.138032	-104.060081	0.00	0.00
151.68	625938.52	414052.88	32.138015	-104.060007	0.00	0.00
174.81	625961.65	414046.81	32.137998	-104.059932	0.00	0.00
197.94	625984.78	414040.73	32.137981	-104.059857	0.00	0.00
221.08	626007.92	414034.65	32.137964	-104.059782	0.00	0.00
244.21	626031.05	414028.57	32.137948	-104.059708	0.00	0.00
267.34	626054.18	414022.49	32.137931	-104.059633	0.00	0.00
290.47	626077.31	414016.42	32.137914	-104.059558	0.00	0.00
313.60	626100.44	414010.34	32.137897	-104.059484	0.00	0.00
336.73	626123.57	414004.26	32.137880	-104.059409	0.00	0.00
359.86	626146.70	413998.18	32.137863	-104.059334	0.00	0.00
382.99	626169.83	413992.11	32.137846	-104.059260	0.00	0.00
406.12	626192.96	413986.03	32.137829	-104.059185	0.00	0.00
429.25	626216.09	413979.95	32.137813	-104.059110	0.00	0.00
452.38	626239.22	413973.87	32.137796	-104.059036	0.00	0.00
475.51	626262.35	413967.79	32.137779	-104.058961	0.00	0.00
498.64	626285.48	413961.72	32.137762	-104.058886	0.00	0.00
521.77	626308.61	413955.64	32.137745	-104.058812	0.00	0.00
544.90	626331.74	413949.56	32.137728	-104.058737	0.00	0.00
568.03	626354.87	413943.48	32.137711	-104.058662	0.00	0.00
591.16	626378.00	413937.40	32.137695	-104.058588	0.00	0.00
614.29	626401.13	413931.33	32.137678	-104.058513	0.00	0.00
637.42	626424.26	413925.25	32.137661	-104.058438	0.00	0.00
660.55	626447.39	413919.17	32.137644	-104.058364	0.00	0.00
683.69	626470.53	413913.09	32.137627	-104.058289	0.00	0.00
706.82	626493.66	413907.02	32.137610	-104.058214	0.00	0.00
729.95	626516.79	413900.94	32.137593	-104.058140	0.00	0.00
753.08	626539.92	413894.86	32.137576	-104.058065	0.00	0.00
776.21	626563.05	413888.78	32.137560	-104.057990	0.00	0.00
799.34	626586.18	413882.70	32.137543	-104.057916	0.00	0.00

822.47	626609.31	413876.63	32.137526	-104.057841	0.00	0.00
845.60	626632.44	413870.55	32.137509	-104.057766	0.00	0.00
868.73	626655.57	413864.47	32.137492	-104.057692	0.00	0.00
891.86	626678.70	413858.39	32.137475	-104.057617	0.00	0.00
914.99	626701.83	413852.32	32.137458	-104.057542	0.00	0.00
938.12	626724.96	413846.24	32.137441	-104.057467	0.00	0.00
961.25	626748.09	413840.16	32.137425	-104.057393	0.00	0.00
984.38	626771.22	413834.08	32.137408	-104.057318	0.00	0.00
1007.51	626794.35	413828.00	32.137391	-104.057243	0.00	0.00
1030.64	626817.48	413821.93	32.137374	-104.057169	0.00	0.00
1053.77	626840.61	413815.85	32.137357	-104.057094	0.00	0.00
1076.90	626863.74	413809.77	32.137340	-104.057019	0.00	0.00
1100.03	626886.87	413803.69	32.137323	-104.056945	0.00	0.00
1123.16	626910.00	413797.61	32.137306	-104.056870	0.00	0.00
1146.30	626933.14	413791.54	32.137290	-104.056795	0.00	0.00
1169.43	626956.27	413785.46	32.137273	-104.056721	0.00	0.00
1192.56	626979.40	413779.38	32.137256	-104.056646	0.00	0.00
1215.69	627002.53	413773.30	32.137239	-104.056571	0.00	0.00
1238.82	627025.66	413767.23	32.137222	-104.056497	0.00	0.00
1261.95	627048.79	413761.15	32.137205	-104.056422	0.00	0.00
1285.08	627071.92	413755.07	32.137188	-104.056347	0.00	0.00
1308.21	627095.05	413748.99	32.137172	-104.056273	0.00	0.00
1332.00	627118.84	413742.74	32.137154	-104.056196	0.00	0.00
1342.75	627129.59	413737.95	32.137141	-104.056161	10.00	3.38
1353.78	627140.62	413728.68	32.137115	-104.056126	10.00	5.75
1364.32	627151.16	413715.17	32.137078	-104.056092	10.00	7.26
1374.31	627161.15	413697.53	32.137030	-104.056059	10.00	8.14
1383.67	627170.51	413675.89	32.136970	-104.056029	10.00	8.67
1392.32	627179.16	413650.41	32.136900	-104.056002	10.00	8.99
1400.21	627187.05	413621.29	32.136820	-104.055976	10.00	9.21
1407.26	627194.10	413588.75	32.136730	-104.055954	10.00	9.36
1413.43	627200.27	413553.03	32.136632	-104.055934	10.00	9.46
1418.67	627205.51	413514.42	32.136526	-104.055918	10.00	9.53
1422.94	627209.78	413473.19	32.136413	-104.055904	10.00	9.59
1426.21	627213.05	413429.68	32.136293	-104.055894	10.00	9.63
1428.44	627215.28	413384.20	32.136168	-104.055887	10.00	9.66
1429.64	627216.48	413337.10	32.136038	-104.055884	10.00	9.68
1429.83	627216.67	413316.28	32.135981	-104.055883	10.00	9.70
1430.16	627217.00	413239.99	32.135771	-104.055883	5.00	5.00
1430.60	627217.44	413141.14	32.135500	-104.055882	5.00	5.00
1431.04	627217.88	413041.37	32.135225	-104.055882	5.00	5.00
1431.13	627217.97	413019.70	32.135166	-104.055882	5.00	5.00
1431.48	627218.32	412941.37	32.134951	-104.055881	0.00	0.00
1431.92	627218.76	412841.37	32.134676	-104.055880	0.00	0.00

1432.37	627219.21	412741.37	32.134401	-104.055880	0.00	0.00
1432.81	627219.65	412641.37	32.134126	-104.055879	0.00	0.00
1433.25	627220.09	412541.37	32.133851	-104.055879	0.00	0.00
1433.69	627220.53	412441.37	32.133576	-104.055878	0.00	0.00
1434.14	627220.98	412341.38	32.133301	-104.055877	0.00	0.00
1434.58	627221.42	412241.38	32.133026	-104.055877	0.00	0.00
1435.02	627221.86	412141.38	32.132751	-104.055876	0.00	0.00
1435.47	627222.31	412041.38	32.132477	-104.055876	0.00	0.00
1435.91	627222.75	411941.38	32.132202	-104.055875	0.00	0.00
1436.35	627223.19	411841.38	32.131927	-104.055875	0.00	0.00
1436.80	627223.64	411741.38	32.131652	-104.055874	0.00	0.00
1437.24	627224.08	411641.38	32.131377	-104.055873	0.00	0.00
1437.68	627224.52	411541.38	32.131102	-104.055873	0.00	0.00
1438.12	627224.96	411441.38	32.130827	-104.055872	0.00	0.00
1438.57	627225.41	411341.39	32.130552	-104.055872	0.00	0.00
1439.01	627225.85	411241.39	32.130277	-104.055871	0.00	0.00
1439.45	627226.29	411141.39	32.130003	-104.055870	0.00	0.00
1439.90	627226.74	411041.39	32.129728	-104.055870	0.00	0.00
1440.34	627227.18	410941.39	32.129453	-104.055869	0.00	0.00
1440.78	627227.62	410841.39	32.129178	-104.055869	0.00	0.00
1441.23	627228.07	410741.39	32.128903	-104.055868	0.00	0.00
1441.67	627228.51	410641.39	32.128628	-104.055867	0.00	0.00
1442.11	627228.95	410541.39	32.128353	-104.055867	0.00	0.00
1442.56	627229.40	410441.39	32.128078	-104.055866	0.00	0.00
1443.00	627229.84	410341.39	32.127803	-104.055866	0.00	0.00
1443.44	627230.28	410241.40	32.127528	-104.055865	0.00	0.00
1443.88	627230.72	410141.40	32.127254	-104.055864	0.00	0.00
1444.33	627231.17	410041.40	32.126979	-104.055864	0.00	0.00
1444.77	627231.61	409941.40	32.126704	-104.055863	0.00	0.00
1445.21	627232.05	409841.40	32.126429	-104.055863	0.00	0.00
1445.66	627232.50	409741.40	32.126154	-104.055862	0.00	0.00
1446.10	627232.94	409641.40	32.125879	-104.055861	0.00	0.00
1446.54	627233.38	409541.40	32.125604	-104.055861	0.00	0.00
1446.99	627233.83	409441.40	32.125329	-104.055860	0.00	0.00
1447.43	627234.27	409341.40	32.125054	-104.055860	0.00	0.00
1447.82	627234.66	409252.90	32.124811	-104.055859	0.00	0.00
1447.98	627234.82	409241.41	32.124780	-104.055859	9.42	0.00
1451.20	627238.04	409191.52	32.124642	-104.055849	9.42	0.00
1458.50	627245.34	409142.08	32.124506	-104.055825	9.42	0.00
1469.84	627256.68	409093.39	32.124373	-104.055789	9.42	0.00
1485.14	627271.98	409045.81	32.124242	-104.055740	9.42	0.00
1504.29	627291.13	408999.63	32.124115	-104.055679	9.42	0.00
1527.17	627314.01	408955.19	32.123992	-104.055605	9.42	0.00
1553.63	627340.47	408912.78	32.123875	-104.055520	9.42	0.00

1583.47	627370.31	408872.68	32.123765	-104.055424	9.42	0.00
1616.51	627403.35	408835.17	32.123662	-104.055318	9.42	0.00
1652.52	627439.36	408800.50	32.123566	-104.055202	9.42	0.00
1691.25	627478.09	408768.90	32.123479	-104.055077	9.42	0.00
1732.44	627519.28	408740.59	32.123401	-104.054944	9.42	0.00
1775.83	627562.67	408715.76	32.123332	-104.054804	9.42	0.00
1821.10	627607.94	408694.57	32.123274	-104.054658	9.42	0.00
1867.96	627654.80	408677.17	32.123226	-104.054507	9.42	0.00
1916.09	627702.93	408663.68	32.123188	-104.054351	9.42	0.00
1965.17	627752.01	408654.19	32.123162	-104.054193	9.42	0.00
2014.86	627801.70	408648.76	32.123146	-104.054032	9.42	0.00
2064.83	627851.67	408647.42	32.123142	-104.053871	9.42	0.00
2114.73	627901.57	408650.20	32.123150	-104.053710	9.42	0.00
2164.25	627951.09	408657.06	32.123168	-104.053550	9.42	0.00
2213.03	627999.87	408667.97	32.123198	-104.053392	9.42	0.00
2260.75	628047.59	408682.84	32.123238	-104.053238	9.42	0.00
2307.09	628093.93	408701.58	32.123290	-104.053088	9.42	0.00
2351.73	628138.57	408724.07	32.123351	-104.052944	9.42	0.00
2394.38	628181.22	408750.14	32.123422	-104.052806	9.42	0.00
2434.74	628221.58	408779.63	32.123503	-104.052675	9.42	0.00
2472.54	628259.38	408812.33	32.123593	-104.052553	9.42	0.00
2507.54	628294.38	408848.03	32.123691	-104.052439	9.42	0.00
2539.48	628326.32	408886.48	32.123796	-104.052336	9.42	0.00
2568.15	628354.99	408927.42	32.123908	-104.052243	9.42	0.00
2593.37	628380.21	408970.58	32.124027	-104.052161	9.42	0.00
2614.96	628401.80	409015.66	32.124151	-104.052091	9.42	0.00
2632.78	628419.62	409062.36	32.124279	-104.052033	9.42	0.00
2646.69	628433.53	409110.37	32.124411	-104.051988	9.42	0.00
2656.62	628443.46	409159.36	32.124545	-104.051955	9.42	0.00
2660.69	628447.53	409189.59	32.124628	-104.051942	9.42	0.00
2667.06	628453.90	409258.79	32.124819	-104.051920	2.80	0.00
2672.09	628458.93	409358.65	32.125093	-104.051903	2.80	0.00
2672.76	628459.60	409420.66	32.125264	-104.051901	2.80	0.00
2672.59	628459.43	409458.65	32.125368	-104.051901	0.00	0.00
2672.15	628458.99	409558.65	32.125643	-104.051901	0.00	0.00
2671.72	628458.56	409658.65	32.125918	-104.051902	0.00	0.00
2671.28	628458.12	409758.65	32.126193	-104.051903	0.00	0.00
2670.84	628457.68	409858.64	32.126468	-104.051903	0.00	0.00
2670.40	628457.24	409958.64	32.126742	-104.051904	0.00	0.00
2669.96	628456.80	410058.64	32.127017	-104.051904	0.00	0.00
2669.52	628456.36	410158.64	32.127292	-104.051905	0.00	0.00
2669.08	628455.92	410258.64	32.127567	-104.051905	0.00	0.00
2668.64	628455.48	410358.64	32.127842	-104.051906	0.00	0.00
2668.21	628455.05	410458.64	32.128117	-104.051907	0.00	0.00

2667.77	628454.61	410558.64	32.128392	-104.051907	0.00	0.00
2667.33	628454.17	410658.64	32.128667	-104.051908	0.00	0.00
2666.89	628453.73	410758.64	32.128942	-104.051908	0.00	0.00
2666.45	628453.29	410858.63	32.129217	-104.051909	0.00	0.00
2666.01	628452.85	410958.63	32.129491	-104.051910	0.00	0.00
2665.57	628452.41	411058.63	32.129766	-104.051910	0.00	0.00
2665.13	628451.97	411158.63	32.130041	-104.051911	0.00	0.00
2664.70	628451.54	411258.63	32.130316	-104.051911	0.00	0.00
2664.26	628451.10	411358.63	32.130591	-104.051912	0.00	0.00
2663.82	628450.66	411458.63	32.130866	-104.051912	0.00	0.00
2663.38	628450.22	411558.63	32.131141	-104.051913	0.00	0.00
2662.94	628449.78	411658.63	32.131416	-104.051914	0.00	0.00
2662.50	628449.34	411758.63	32.131691	-104.051914	0.00	0.00
2662.06	628448.90	411858.63	32.131965	-104.051915	0.00	0.00
2661.62	628448.46	411958.62	32.132240	-104.051915	0.00	0.00
2661.19	628448.03	412058.62	32.132515	-104.051916	0.00	0.00
2660.75	628447.59	412158.62	32.132790	-104.051916	0.00	0.00
2660.31	628447.15	412258.62	32.133065	-104.051917	0.00	0.00
2659.87	628446.71	412358.62	32.133340	-104.051918	0.00	0.00
2659.43	628446.27	412458.62	32.133615	-104.051918	0.00	0.00
2658.99	628445.83	412558.62	32.133890	-104.051919	0.00	0.00
2658.55	628445.39	412658.62	32.134165	-104.051919	0.00	0.00
2658.11	628444.95	412758.62	32.134439	-104.051920	0.00	0.00
2657.68	628444.52	412858.62	32.134714	-104.051920	0.00	0.00
2657.24	628444.08	412958.61	32.134989	-104.051921	0.00	0.00
2656.80	628443.64	413058.61	32.135264	-104.051922	0.00	0.00
2656.36	628443.20	413158.61	32.135539	-104.051922	0.00	0.00
2655.92	628442.76	413258.61	32.135814	-104.051923	0.00	0.00
2655.48	628442.32	413358.61	32.136089	-104.051923	0.00	0.00
2655.04	628441.88	413458.61	32.136364	-104.051924	0.00	0.00
2654.60	628441.44	413558.61	32.136639	-104.051924	0.00	0.00
2654.17	628441.01	413658.61	32.136913	-104.051925	0.00	0.00
2653.72	628440.56	413759.94	32.137192	-104.051926	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	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.45
0.00	1.80
0.00	4.06
0.00	7.20
0.00	11.24
0.00	16.17
0.00	21.48
0.00	21.98
0.00	28.16
0.00	34.34
0.00	40.52
0.00	46.70
0.00	52.88
0.00	59.05
0.00	65.23
0.00	71.41
0.00	77.59
0.00	83.77
0.00	89.95
0.00	96.13
0.00	102.31
0.00	108.48
0.00	114.66
0.00	120.84
0.00	127.02
0.00	133.20
0.00	139.38
0.00	145.56
0.00	151.74
0.00	157.91
0.00	164.09
0.00	170.27
0.00	176.45
0.00	182.63
0.00	188.81
0.00	194.99
0.00	201.16
0.00	207.34
0.00	213.52

0.00	219.70
0.00	225.88
0.00	232.06
0.00	238.24
0.00	244.42
0.00	250.59
0.00	256.77
0.00	262.95
0.00	269.13
0.00	275.31
0.00	281.49
0.00	287.67
0.00	293.85
0.00	300.02
0.00	306.20
0.00	312.38
0.00	318.56
0.00	324.74
0.00	330.92
0.00	337.10
0.00	343.28
0.00	349.45
0.00	355.81
37.45	360.65
28.36	369.97
20.09	383.52
14.36	401.20
10.60	422.89
8.13	448.40
6.47	477.56
5.30	510.13
4.48	545.87
3.87	584.51
3.42	625.75
3.08	669.28
2.83	714.77
2.65	761.87
2.54	782.69
0.00	858.99
0.00	957.84
0.00	1057.61
0.00	1079.28
0.00	1157.61
0.00	1257.61

0.00	1357.61
0.00	1457.61
0.00	1557.61
0.00	1657.61
0.00	1757.61
0.00	1857.61
0.00	1957.61
0.00	2057.61
0.00	2157.61
0.00	2257.61
0.00	2357.61
0.00	2457.61
0.00	2557.61
0.00	2657.61
0.00	2757.61
0.00	2857.61
0.00	2957.61
0.00	3057.61
0.00	3157.61
0.00	3257.61
0.00	3357.61
0.00	3457.61
0.00	3557.61
0.00	3657.61
0.00	3757.61
0.00	3857.61
0.00	3957.61
0.00	4057.61
0.00	4157.61
0.00	4257.61
0.00	4357.61
0.00	4457.61
0.00	4557.61
0.00	4657.61
0.00	4757.61
0.00	4846.11
-9.42	4857.61
-9.42	4907.50
-9.42	4956.98
-9.42	5005.71
-9.42	5053.37
-9.42	5099.62
-9.42	5144.16
-9.42	5186.69

-9.42	5226.92
-9.42	5264.57
-9.42	5299.40
-9.42	5331.17
-9.42	5359.66
-9.42	5384.68
-9.42	5406.07
-9.42	5423.67
-9.42	5437.37
-9.42	5447.08
-9.42	5452.72
-9.42	5454.28
-9.42	5451.72
-9.42	5445.07
-9.42	5434.38
-9.42	5419.71
-9.42	5401.17
-9.42	5378.88
-9.42	5353.00
-9.42	5323.68
-9.42	5291.15
-9.42	5255.60
-9.42	5217.30
-9.42	5176.48
-9.42	5133.43
-9.42	5088.44
-9.42	5041.82
-9.42	4993.87
-9.42	4944.92
-9.42	4914.71
-2.80	4845.54
-2.80	4745.70
-2.80	4683.70
0.00	4645.71
0.00	4545.71
0.00	4445.71
0.00	4345.71
0.00	4245.71
0.00	4145.71
0.00	4045.71
0.00	3945.71
0.00	3845.71
0.00	3745.71
0.00	3645.71

0.00	3545.71
0.00	3445.71
0.00	3345.71
0.00	3245.71
0.00	3145.71
0.00	3045.71
0.00	2945.71
0.00	2845.71
0.00	2745.71
0.00	2645.71
0.00	2545.71
0.00	2445.71
0.00	2345.71
0.00	2245.71
0.00	2145.71
0.00	2045.71
0.00	1945.71
0.00	1845.71
0.00	1745.71
0.00	1645.71
0.00	1545.71
0.00	1445.71
0.00	1345.71
0.00	1245.71
0.00	1145.71
0.00	1045.71
0.00	945.71
0.00	845.71
0.00	745.71
0.00	645.71
0.00	545.71
0.00	445.71
0.00	344.38

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 3H

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 Sdleaunlldr vayRln Rpadapdv neuRvanyRar euRy SdRpanepanyRant t ydWd n Rpaodd nbRva r vSeban1nSh4lRavdoF nyRanepai Rnvr yRi Re addlvCam3RH-lav3dr lpæd a4Rai Sv nEReanvanea doSdSlayRudypgF 3Si3aunealdelH4Rad4 nSeRpal1SnanuRy SdRpalnepavr y1RH-dyC

2lneeRpa9r y1RHa5Rt dy

Company:	@d Ryyna0eRybH	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di a8.
Project:	0ppHa@dr e HgBU aDBPhaM8T	**TVD Reference:**	sf 8(a6)a as8aN asf (MAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	sf 8(a6)a as8aN asf (MAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di a8.	**North Reference:**	6 yS
Wellbore:	w.	**Survey Calculation Method:**	U SaS r i a@r y1n r yR
Design:	2lneaG	**Database:**	Cnd nlah SRu Slenla2ydpr u Slea h x

Project	0ppHa@dr e HgBU aDBPhaM8T		
Map System:	Z9a9 n Ra2lneRaGf M8	**System Datum:**	U Rnea9 Rna) R1R
Geo Datum:	Bdy3aPi RySineah n r i aGf M8		
Map Zone:	BRFaURM8da0nv Rye a' deR		

Site	5 SIRy4RepaGLa+RpRynla@di				
Site Position:		**Northing:**	LGLgAf sC- r vo	**Latitude:**	8sCC8MGs Os
From:	Unt	**Easting:**	Os(gMAOOM8 r vo	**Longitude:**	/GAL@AOAL8G-
Position Uncertainty:	A@AA r vo	**Slot Radius:**	G8/8°GO 7		

Well	5 SIRy4RepaGLa+RpRynla@di a8.						
Well Position	**+N/-S**	A@AA r vo	**Northing:**	LGLgAf sGL r vo	**Latitude:**	8sCC8MGs(-
	+E/-W	A@AA r vo	**Easting:**	Os(g-MOOML r vo	**Longitude:**	/GAL@AOALf Os
Position Uncertainty		A@AA r vo	**Wellhead Elevation:**	r vo	**Ground Level:**	sgf 8(@AA r vo
Grid Convergence:		A@G(I				

Wellbore	w.				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	. h6 UsAs(	Gs°G8°sAs(	OCLs	(fCC8	L- gGs OOMAAAAAAA

Design	2lneaG						
Audit Notes:							
Version:		**Phase:**	2) PB	**Tie On Depth:**			A@AA
Vertical Section:	**Depth From (TVD) (usft)**		**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**		
	A@AA		A@AA	A@AA	G- f G(		

Survey Tool Program	**Date**	GA°GO°sAs(			
From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**	
A@AA	GfgGAA@OL	2lneaGaDw. T	U' h, V+5G, U9	w' 96aU' ha, aV+5Ga, aUr l S9 n Slea@dyyRu Sle	

2lneeRpa9r y1RHa5Rt dy

Company:	@d Ryyna0eRybH	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di a8.
Project:	0ppHa@dr e HgaBUaDBPhaM8T	**TVD Reference:**	sf 8(a6)a as8aN asf (MAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	sf 8(a6)a as8aN asf (MAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di a8.	**North Reference:**	6 yS
Wellbore:	w.	**Survey Calculation Method:**	U SaS r i a@r y1n r yR
Design:	2lneaG	**Database:**	@d nlah SRu Sdenla2ydpr u Sdeah 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
A@AA	A@AA	A@AA	A@AA	A@AA	A@AA	A@AA	A@AA	A@AA	A@AA	
GgMAA@AA	A@AA	A@AA	GgMAA@AA	A@AA	A@AA	A@AA	A@AA	A@AA	A@AA	
sgLf G0ML	G80ML	GALGs	sgLM(@8	/sG@8	MA@LA	s@AA	s@AA	G(@L	GALGs	
-gf As0MO	G80ML	GALGs	-g8f @8	/8(A@AA	G88s@AA	A@AA	A@AA	A@AA	A@AA	
MgOsG@0-	-(@AA	G-f G(	MgsLf @(	/--O@LO	GgLsf 0M8	GA@AA	M@G	GA@LL	-f @AO	
Mgf sG@0-	f A@AA	G-f G(	MgsMf @AA	/GgA-8@AL	Gg.8G@8	(@AA	(@AA	A@AA	/A@AG	
GsgOMM@G	f A@AA	G-f G(	MgsMf @AA	/LgM8f 0ML	GgLL-0Ms	A@AA	A@AA	A@AA	A@AA	
GLg(8A@G	f A@AA	O@8	MgsMf @AA	/LgfA8@G(	sgO@AC@f	f @Ls	A@AA	/f @Ls	/f A@AA	
GLg-OsGAG	f A@AA	8(f G(	MgsMf @AA	/LgO-s@AM	sgO-sG O	s0MA	A@AA	/s0MA	/f A@AA	
GfgGAG@8	f A@AA	8(f G(	MgsMf @AA	/88s0MA	sgO(8Gs	A@AA	A@AA	A@AA	A@AA	

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)
A@AA	A@AA	A@AA	A@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
GAA@AA	A@AA	A@AA	GAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
sAA@AA	A@AA	A@AA	sAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
8AA@AA	A@AA	A@AA	8AA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
LAA@AA	A@AA	A@AA	LAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
(AA@AA	A@AA	A@AA	(AA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
OAA@AA	A@AA	A@AA	OAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
-AA@AA	A@AA	A@AA	-AA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
MAA@AA	A@AA	A@AA	MAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
f AA@AA	A@AA	A@AA	f AA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
GgAAA@AA	A@AA	A@AA	GgAAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
GgAf G@AA	A@AA	A@AA	GgAf G@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
Rustler													
GgGAA@AA	A@AA	A@AA	GgGAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
GgsAA@AA	A@AA	A@AA	GgsAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
Gg8AA@AA	A@AA	A@AA	Gg8AA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
GgLAA@AA	A@AA	A@AA	GgLAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
Gg(AA@AA	A@AA	A@AA	Gg(AA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
Gg(-A@AA	A@AA	A@AA	Gg(-A@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
Top Salt													
GgOAA@AA	A@AA	A@AA	GgOAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
Gg AA@AA	A@AA	A@AA	Gg AA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
GgMAA@AA	A@AA	A@AA	GgMAA@AA	A@AA	A@AA	LGLgAf sGL	Os(g-M0ML	8s@8MGs(-	/GAL@A@ALf Os	A@AA	A@AA	A@AA	A@AA
Start DLS 2.00 TFO 104.72													

2lneeRpa9r y1RHa5Rt dy

Company:	@d Ryyna0eRybH	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di a8.
Project:	0ppHa@dr e HgBUaDBPhaM8T	**TVD Reference:**	sf 8(a6)a as8aN asf (MCAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	sf 8(a6)a as8aN asf (MCAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di a8.	**North Reference:**	6 yS
Wellbore:	w.	**Survey Calculation Method:**	USaS ri a@ry1n ryR
Design:	2lneaG	**Database:**	@nd nlah SRu Slenla2ydpr 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 (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
GfAACAA	sCAA	GALGs	GgMffCM	/ACL	GCCf	LGLgAfsC8A	Os(g-MMC8	8sC8MGsLL	/GALCAOALfAM	ACL(	sCAA	sCAA	ACAA
sgAAACAA	LCAA	GALGs	Ggfff0ML	/GG-	OG(	LGLgAfAC-	Os(g-f8Cf	8sC8MGsA-	/GALCAOAL-L(	G0MA	sCAA	sCAA	ACAA
sgGAACAA	OCAA	GALGs	sgAffCL(	/8Cf	GCGM	LGLgAMMG(	Os(gMAsCAs	8sC8MGGLO	/GALCAOALL-s	LCA(	sCAA	sCAA	ACAA
sgsAACAA	MCAA	GALGs	sgGfMG-A	/-CAf	sOCO	LGLgAM(CC(	Os(gMG80MA	8sC8MGAOA	/GALCAOALAfs	-GsA	sCAA	sCAA	ACAA
sg8AACAA	GACAA	GALGs	sgsf-CL-	/GGCAO	LsCAf	LGLgAMGCCM	Os(gMsMC8	8sC8MAf(A	/GALCAOA8OA8	GGGsL	sCAA	sCAA	ACAA
sg8C(CC-	GG8G	GALGs	sg8OsCAA	/GLCG(	(80ML	LGLgA-MCf	Os(gMLACCM	8sC8MAMCL	/GALCAOA8ssL	GLG8M	sCAA	sCAA	ACAA
Base Salt/Lamar													
sgLAACAA	GsCAA	GALGs	sg8f(CCs	/G(CfG	OACf(	LGLgA-COM8	Os(gML-G8f	8sC8MAMG(	/GALCAOA8AAM	GCCG-	sCAA	sCAA	ACAA
sgLfGCML	G80ML	GALGs	sgLM(CC8	/sGCC8	MACLA	LGLgA-GCCG	Os(gMO-GsL	8sC8MAO-A	/GALCAOAs8CO	sGCLM	sCAA	sCAA	ACAA
sg(AACAA	G80ML	GALGs	sgLf8CAO	/sGCCs	MsGsf	LGLgA-GCGs	Os(gMOfCC8	8sC8MAC(-	/GALCAOAs8AO	sGCfM	ACAA	ACAA	ACAA
sg((MCCL	G80ML	GALGs	sg((ACAA	/s(CGf	f(0MO	LGLgAO-Cf(	Os(gMMsGA	8sC8MA((M	/GALCAOAGMOM	s(CCG	ACAA	ACAA	ACAA
Top Delaware Sands/Bell Canyon													
sgOAACAA	G80ML	GALGs	sg(fACGO	/s-GA	GA(Cs	LGLgAC(CAL	Os(gMfsGsO	8sC8MALMM	/GALCAOAG((f	sMCCO	ACAA	ACAA	ACAA
sg AACAA	G80ML	GALGs	sgOM-Gs(	/88GM	GsMC(	LGLgA(MCfO	Os(gfG(G8f	8sC8MA8Gf	/GALCAOAAMGs	8LG8L	ACAA	ACAA	ACAA
sgMAACAA	G80ML	GALGs	sg-MLG8(	/8f0MO	G(GCCM	LGLgA(s0MM	Os(gf8MCfs	8sC8MAG(A	/GALCAOAAAC(	LACfs	ACAA	ACAA	ACAA
sgfAACAA	G80ML	GALGs	sgMMG8L(	/L(Cf8	G-LCMG	LGLgALCOMG	Os(gfOGCC(	8sC8-ffMs	/GALCA(ff8GM	LCGA	ACAA	ACAA	ACAA
8gAAACAA	G80ML	GALGs	sgf-MC(	/(sCAG	Gf-CfL	LGLgALAG8	Os(gfMLGM	8sC8-fMG8	/GALCA(fM(-s	(s0MM	ACAA	ACAA	ACAA
8gGAACAA	G80ML	GALGs	8gA-(CC(	/(MCAf	ssGCA-	LGLgA8LCC(	OsOgAA-CfG	8sC8-fCLL	/GALCA(f-Ms(	(fCA(	ACAA	ACAA	ACAA
8gsAACAA	G80ML	GALGs	8gG-sGL	/CLCG-	sLLGsG	LGLgAsMC(-	OsOgA8GCA(	8sC8-fL-O	/GALCA(f-A-M	C(Gs8	ACAA	ACAA	ACAA
8g8AACAA	G80ML	GALGs	8gsOf0ML	/-AGs(	sO-G8L	LGLgAssCLf	OsOgA(LCGM	8sC8-f8A-	/GALCA(fC88G	-GCLG	ACAA	ACAA	ACAA
8gLAACAA	G80ML	GALGs	8g8CCCfL	/-C8s	sfACL-	LGLgAGCCLs	OsOgA- -G8G	8sC8-fG8M	/GALCA(f((ML	- -Cf	ACAA	ACAA	ACAA
8gL(fGf	G80ML	GALGs	8gLs(CAA	/-fCfO	8ALG8A	LGLgAGsGM	OsOgAfGCCL	8sC8-fA8-	/GALCA(f(G8M	MGGsM	ACAA	ACAA	ACAA
Cherry Canyon													
8g(AACAA	G80ML	GALGs	8gLCLCAL	/MsCLA	8G8CCA	LGLgAGAG8L	OsOgGAACLL	8sC8-M-A	/GALCA(fLM8M	M8G-	ACAA	ACAA	ACAA
8gOAACAA	G80ML	GALGs	8g(OGCGL	/MMCLM	88OG8	LGLgAALGsO	OsOgGs8C-	8sC8-MMAG	/GALCA(fLAfG	MfCf(	ACAA	ACAA	ACAA
8g AACAA	G80ML	GALGs	8gO(MGsL	/fLCfO	8(fCMO	LG8gffMCGM	OsOgGLOGA	8sC8-MO8s	/GALCA(f88LL	fOCG8	ACAA	ACAA	ACAA
8gMAACAA	G80ML	GALGs	8g(((G88	/GAACCL	8MsCf	LG8gfsCGA	OsOgGOf0M8	8sC8-MLCL	/GALCA(fs(f-	GAsG8G	ACAA	ACAA	ACAA
8gfAACAA	G80ML	GALGs	8gM(sCL8	/GACGG	LACCGs	LG8gfMDCA8	OsOgGfsCfO	8sC8-Msf(	/GALCA(fGM(G	GAMCLM	ACAA	ACAA	ACAA
LgAAACAA	G80ML	GALGs	8gfLfCf8	/GGsGf	LsfG(	LG8gf-fCf(	OsOgsGCCAf	8sC8-MGsO	/GALCA(fGGAL	GGLCCO	ACAA	ACAA	ACAA
LgGAACAA	G80ML	GALGs	LgALCCC8	/GGM0M4	L(sG8M	LG8gf-80M4	OsOgs8fGss	8sC8--f(-	/GALCA(fA8(-	GsACML	ACAA	ACAA	ACAA
LgsAACAA	G80ML	GALGs	LgGL8G8	/GsLCf(	L-(CfG	LG8gfO-Gf	OsOgsOsG8(	8sC8---Mf	/GALCA(MfCGA	Gs-CAs	ACAA	ACAA	ACAA
Lg8AACAA	G80ML	GALGs	LgsLA0Ms	/G8GCAs	Lf MCCL	LG8gfOGGs	OsOgsM(CLM	8sC8--OsA	/GALCA(MMMO8	G88GsA	ACAA	ACAA	ACAA
LgLAACAA	G80ML	GALGs	Lg88-Cfs	/G8-GCA	(sGG-	LG8gf((CCL	OsOg8AMCCG	8sC8--L(G	/GALCA(MMGG-	G8fG8M	ACAA	ACAA	ACAA
Lg AACAA	G80ML	GALGs	Lgl8(CAs	/GL8GGM	(LLCfA	LG8gfLfCfO	OsOg88GGL	8sC8--sM8	/GALCA(M-8-A	GL(CfO	ACAA	ACAA	ACAA
LgOAACAA	G80ML	GALGs	Lg(8sCGs	/GLfGsO	(OMCA8	LG8gfL8CLM	OsOg8(L0M4	8sC8--GGL	/GALCA(MOOs8	G(GG8	ACAA	ACAA	ACAA
Lg AACAA	G80ML	GALGs	LgOsfGss	/G((G8L	(fGGCO	LG8gf8-CLA	OsOg8-MCAA	8sC8-Cf L(	/GALCA(M(M-O	G(-CfG	ACAA	ACAA	ACAA
LgMAACAA	G80ML	GALGs	Lg-sOG8G	/GCGGLG	OGLGsf	LG8gf8GG88	OsOgLAGGC8	8sC8-O- -	/GALCA(M(Gsf	GCLCAf	ACAA	ACAA	ACAA
LgMAAGG	G80ML	GALGs	Lg-s-CAA	/GCGGLO	OGLCLO	LG8gf8GGsM	OsOgLAGG8A	8sC8-O- (	/GALCA(M(GsL	GCLCGL	ACAA	ACAA	ACAA

2lneeRpa9r y1RHa5 Rt dy

Company:	@d Ryyna0eRybH	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di a8.
Project:	0ppHa@dr e HgaBUaDBPhaM8T	**TVD Reference:**	sf 8(a6)a as8aN asf (MCAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	sf 8(a6)a as8aN asf (MCAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di a8.	**North Reference:**	6 yS
Wellbore:	w.	**Survey Calculation Method:**	USaS r i a@r y1n r yR
Design:	2lneaG	**Database:**	Cnd nlah SRu Slenla2ydpr 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 (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Brushy Canyon													
LgfAACAA	G8CML	GALGs	LgMs8CLG	/GO-CLf	O8-CLs	LG8gfs(Gs(	OsOgLsLGsO	8sG8-OOAM	/GALGA(ML8M8	G-AGs-	ACAA	ACAA	ACAA
(gAAACAA	G8CML	GALGs	LgfsACfG	/G-8Cf-	OOACf(	LG8gfGfCGs	OsOgLL-G8f	8sG8-CL8f	/GALGA(M8O8O	G-OCL(	ACAA	ACAA	ACAA
(gGAACAA	G8CML	GALGs	(gAG-CCG	/G-fCC(	OM8CCM	LG8gfG8CAf	OsOgL-ACfs	8sG8-Os-G	/GALGA(MsMMf	GMsCC8	ACAA	ACAA	ACAA
(gsAACAA	G8CML	GALGs	(gGGLGG	/GM(Gs	-AOCMs	LG8gfA-CAs	OsOgLf8CCO	8sG8-OGAs	/GALGA(MsGLs	GMMCMG	ACAA	ACAA	ACAA
(g8AACAA	G8CML	GALGs	(gsGGCMA	/GfGCMA	-sfCf(	LG8gfAACfL	OsOg(GOGf	8sG8-(f88	/GALGA(MG8fO	GfLCf	ACAA	ACAA	ACAA
(gLAACAA	G8CML	GALGs	(g8AMCfA	/Gf-CMM	-(8CAM	LG8gMfLCMD	OsOg(8fCs	8sG8-(-CL	/GALGA(MACLf	sAGCGO	ACAA	ACAA	ACAA
(gfAACAA	G8CML	GALGs	(gLACAA	/sA8CfO	--OGG	LG8gMMMGM	OsOg(O8CA(	8sG8-((fO	/GALGA(-ffAs	sA-C8L	ACAA	ACAA	ACAA
(gOAACAA	G8CML	GALGs	(gfA8CGA	/sGACAL	-ff C8L	LG8gMMsGA	OsOg(MOCGM	8sG8-(Ls-	/GALGA(-fG((	sG8Cfs	ACAA	ACAA	ACAA
(gAACAA	G8CML	GALGs	(gOAAGsA	/sGOCGG	MssCL-	LG8gM-OCC8	OsOgOAfG8G	8sG8-(s(M	/GALGA(--MLAM	sGfGA	ACAA	ACAA	ACAA
(g-GCMf	G8CML	GALGs	(gO-ACAA	/ssACLM	M8fCGA	LG8gM-sGsO	OsOgOs(CfL	8sG8-(G8-	/GALGA(--M-s	ssLCGL	ACAA	ACAA	ACAA
Lower Brushy Canyon													
(gMAACAA	G8CML	GALGs	(gOf-C8A	/sssCGf	ML(CCA	LG8gM-ACf(	OsOgO8sCLL	8sG8-(AfA	/GALGA(--COs	ss(CMM	ACAA	ACAA	ACAA
(gfAACAA	G8CML	GALGs	(gfLC8f	/ssMGs-	MCMG8	LG8gMCLCL-	OsOgO((Cf-	8sG8-LfsG	/GALGA(-CfG(	s8sCAO	ACAA	ACAA	ACAA
OgAAACAA	G8CML	GALGs	(gMfGCLf	/s8LG8(	MfGCMD	LG8gM(M8f	OsOgO-MGA	8sG8-L-(s	/GALGA(-OGCM	s8MGL	ACAA	ACAA	ACAA
OgGAACAA	G8CML	GALGs	(gfMMCf	/sLACL8	fGLCf	LG8gM(sC8G	OsOg-AGCM8	8sG8-L(ML	/GALGA(-(LsG	sLLCLs	ACAA	ACAA	ACAA
OgsAACAA	G8CML	GALGs	OgAM(CCf	/sLOCfA	f8MCGs	LG8gMLOGsL	OsOg-sLCfO	8sG8-LLG(	/GALGA(-LO-(	s(ACf	ACAA	ACAA	ACAA
Og8AACAA	G8CML	GALGs	OgGMsGf	/s(sCfM	fOGGs(	LG8gMLACCO	OsOg-LMCAf	8sG8-LsLO	/GALGA(-8fsM	s(OG-	ACAA	ACAA	ACAA
OgLAACAA	G8CML	GALGs	Ogs-fCMM	/s(MCCO	fMLC8M	LG8gM8LCAM	OsOg--GGss	8sG8-LA--	/GALGA(-8GMG	sOsCf(	ACAA	ACAA	ACAA
Og((G8	G8CML	GALGs	Og88LCAA	/sOsGA(	ff-Gs-	LG8gM8ACCf	OsOg-MLCGG	8sG8-8fM8	/GALGA(-s-O(	sCOCLA	ACAA	ACAA	ACAA
Bone Spring Lime													
Og(AACAA	G8CML	GALGs	Og8-OCfM	/sOLGL	GgAA-CfG	LG8gMsMCAA	OsOgfLG8(	8sG8-8fAf	/GALGA(-sL8L	sOfCG8	ACAA	ACAA	ACAA
OgOAACAA	G8CML	GALGs	OgL-LCAM	/s-ACMG	GgA8ACCL	LG8gMsGC8	OsOgMG-CLM	8sG8-8-LA	/GALGA(-GOM-	s-(C8G	ACAA	ACAA	ACAA
Og AACAA	G8CML	GALGs	Og(-GCGM	/s-OCMf	GgA(8G-	LG8gMG(CM(	OsOgMLACCG	8sG8-8(-G	/GALGA(-AfLG	sMGCLf	ACAA	ACAA	ACAA
OgMAACAA	G8CML	GALGs	OgCCMGsM	/sMsCf-	GgA-OCfA	LG8gMAfG-	OsOgMC8GL	8sG8-8LA8	/GALGA(-AGfL	sM-CC-	ACAA	ACAA	ACAA
OgfAACAA	G8CML	GALGs	Og-C(C8-	/sMfCA(	GgGAACA8	LG8gMA8CCf	OsOgMMCCM-	8sG8-8s8L	/GALGA(CfLL-	sf8CML	ACAA	ACAA	ACAA
-gAAACAA	G8CML	GALGs	OgMOsCL-	/sf(CC8	GgGs8CCO	LG8g-f-CCG	OsOgfGACAA	8sG8-8AC(	/GALGA(CM-AA	8AACAs	ACAA	ACAA	ACAA
-gGAACAA	G8CML	GALGs	Ogf(fC-	/8AGGsA	GgGLOGsf	LG8g-fGCfL	OsOgf88CC8	8sG8-sMfO	/GALGA(O-f(L	8AOGsA	ACAA	ACAA	ACAA
-gsAACAA	G8CML	GALGs	-gA(OCC-	/8A-GsM	GgGCfCL8	LG8g-M(CLO	OsOgf(OG-	8sG8-s-sM	/GALGA(O-sA-	8GsG8M	ACAA	ACAA	ACAA
-g8AACAA	G8CML	GALGs	-gG(8G-	/8G8G8O	GgGfsCO	LG8g-f-C8M	OsOgf-fCLA	8sG8-s((f	/GALGA(OCLOA	8GMCO	ACAA	ACAA	ACAA
-gLAACAA	G8CML	GALGs	-gs(ACMD	/8GfCLL	GgsG(CCf	LG8g-8C8A	Os-gAAsC8	8sG8-s8fA	/GALGA(C(-G8	8sLGL	ACAA	ACAA	ACAA
-gLAfCLG	G8CML	GALGs	-gsOACAA	/8sACAG	GgsG-CMD	LG8g-sG8	Os-gAALGA	8sG8-s8-L	/GALGA(C(CL8	8s(C8s	ACAA	ACAA	ACAA
1st Bone Spring Sand													
-gfAACAA	G8CML	GALGs	-g8L-CfO	/8s(CfG	Ggs8MCMs	LG8g-O-G8	Os-gAs(CCO	8sG8-ssss	/GALGA(CLfCO	88ACfs	ACAA	ACAA	ACAA
-gOAACAA	G8CML	GALGs	-gLL(CAO	/88GCff	GgsOGCf(	LG8g-OGCG(	Os-gALMGf	8sG8-sA(8	/GALGA(CLssA	88-CGA	ACAA	ACAA	ACAA
-gAACAA	G8CML	GALGs	-g(LsCGO	/88-CC-	GgsM(CAM	LG8g-((CA-	Os-gA-GCs	8sG8-GML	/GALGA(C8L-8	8L8G-	ACAA	ACAA	ACAA
-gMAACAA	G8CML	GALGs	-gO8fGsO	/8L8G(	Gg8AMGsG	LG8g-LMCf	Os-gAf(CA(	8sG8-G-GO	/GALGA(Os-sO	8LfCL(	ACAA	ACAA	ACAA
-gfAsCMD	G8CML	GALGs	-g-8fCC8	/8(ACAA	Gg88sCAA	LG8g-LsGL	Os-gGGMCML	8sG8-G(Ls	/GALGA(OGf(M	8((CMG	ACAA	ACAA	ACAA
Start DLS 10.00 TFO 79.06													

2lneeRpa9r y1RHa5Rt dy

Company:	@d Ryyna0eRybH	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di a8.
Project:	0ppHa@dr e HgaBUaDBPhaM8T	**TVD Reference:**	sf 8(a6)a as8aN asf (MAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	sf 8(a6)a as8aN asf (MAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di a8.	**North Reference:**	6 yA
Wellbore:	w.	**Survey Calculation Method:**	U SaS r i a@r y1n r yR
Design:	2lneaG	**Database:**	@nd nlah SRu Sdenla2ydpr u Sdeah 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)
-gf(AGAA	G(CL8	Gssc8M	-g-MLG O	/8(LGf	Gg8LsG(	LG8g-8-Cf(	Os-gGsfQf	8sC88- GLAf	/GALGA(OGOGG	8OAQC(	GAGAA	8G8M	8-CLO
MgAAAGAA	GM8A	G8OQf O	-gM8sCC8	/8CLGAO	Gg8(8G M	LG8g-sMCCM	Os-gGLACCs	8sC88- GG(L	/GALGA(OGs(O	8Of Cf-	GAGAA	(G(	sM8O
MgA(AGAA	sGCf L	GLOCCA	-gM-f Q M	/8- - Q-	Gg8CLG8s	LG8g-G(GG-	Os-gG(GGCO	8sC88- A-Ms	/GALGA(OAf GO	8M8Q s	GAGAA	- GsO	sAGAf
MgGAAGAA	sOGAG	G(8G M	-gfs(Gs-	/8f (GsG	Gg8- LG8G	LG8gOf - Q 8	Os-gGOGGG(	8sC88- Asf O	/GALGA(OA(f (	LAGGsA	GAGAA	MCCL	GLG8O
MgGsGGAA	s- CMA	G(OCGf	-gf LLGAA	/LA8CMs	Gg8- MG8s	LG8gOMMCs	Os-gGO(GGO	8sC88- AA(f	/GALGA(OALOO	LAf CM8	GAGAA	MQ((	GGCLM
2nd Bone Spring Sand													
MgG(AGAA	8AG8L	G(f GAM	-gfOfG8(	/LGCOM(	Gg8M8CC-	LG8gO-(CMf	Os-gG-AQ;G	8sC88Of - AG	/GALGA(OAsf L	LssCMf	GAGAA	MG-(	f C-
MgsAAGAA	8LCM8	GO8QG(	MgAGGCL-	/LLsG88	Gg8fsG8s	LG8gO(ACLG	Os-gG-fGGO	8sC88Of AAA	/GALGA(OAAG-	LLMCLA	GAGAA	MCf	MCG8
Mgs(AGAA	8f CL	GOCG8M	MgA(GG8s	/L- GCL(	GgLAAGsG	LG8gOsGGsf	Os-gGM-GA(	8sC88OMGf	/GALGA(f - O(	L- - Q O	GAGAA	fGsG	OCL-
Mg8AAGAA	LLQGs	GOf GAL	MgAMMCOA	/(A8Cf	GgLA-GsO	LG8g(MMG(	Os-gGf LGGA	8sC88O- 8AL	/GALGA(f (8f	(GAGG8	GAGAA	fG8O	(G8A
Mg8(AGAA	LMCM(	G-GGs-	MgGs8GAs	/(8f G G	GgLG8CL8	LG8g(8GA8	Os-gsAAGs-	8sC88OO8sG	/GALGA(f 8L8	(L(CM-	GAGAA	f CLO	LCLM
MgLAAGAA	(8CCs	G-8GsG	MgG(LG8s	/(- MG8s	GgLGMCO-	LG8g(GLCLs	Os-gsA(QG	8sC88O(s(f	/GALGA(f G -	(ML QG	GAGAA	f Q8	8CM-
Mg(AGAA	(MCLG	G-LCCs	MgGMsGs-	/OGf Q((	GgLssCCL	LG8g_-8GGf	Os-gsAf GM	8sC88OLGsO	/GALGA(f ALs	Os(G(	GAGAA	f Qf	8CLs
Mg(AAGAA	O8Gs8	G-OCLO	MgsAOGCL	/OG8GAO	GgLsOGsA	LG8g_sf CCM	Os-gsG8GAL	8sC88Osf 8A	/GALGA((M LG	OCf GsM	GAGAA	f GC8	8GAM
Mg(AGAA	OMGAO	G- - CMM	Mgss- GsO	/- AMQ;L	GgLsMCLL	LG8g8MLGsA	Os-gsG(GsM	8sC88OGO- f	/GALGA((MM- s	- GLG-	GAGAA	f GCO	sCM8
MgOAAGAA	- sCA	G- f GsA	MgsL8CCO	/- ((GCL	GgLsf CCL	LG8g88- GGA	Os-gsGOCLM	8sC88OA8ML	/GALGA((MM8-	- OG8M-	GAGAA	f GCM	sCQ(
MgOsGCC-	- (GAA	G- f G(	MgsLf C(	/- - OCLO	GgLsf CM8	LG8g8GOGsM	Os-gsGOCC-	8sC88(f MGs	/GALGA((MM88	- MsCCf	GAGAA	f GA	sQ;L
Start DLS 5.00 TFO -0.01													
Mg AAGAA	- MCs	G- f G(	MgsO- GC8	/M(sG(	GgL8AGGO	LG8gs8f Cf	Os-gsG-GAA	8sC88(- - G(	/GALGA((MMsM	M(MCf	(GAA	(GAA	AGAA
MgMAAGAA	M8Cs	G- f G(	MgsMsQ;((	/f (GGCA	GgL8AGCA	LG8gGLGGL	Os-gsG-CL	8sC88(Lf f M	/GALGA((MMs8	f (- CM8	(GAA	(GAA	AGAA
Mf AAGAA	MMCs	G- f G(	MgsMMG- f	/GgA(GG8-	GgL8GGAL	LG8gALG8-	Os-gsG-CM	8sC88(ss((	/GALGA((MMG-	GgA(- GCG	(GAA	(GAA	AGAA
Mf sGCC-	f AGAA	G- f G(	MgsMf GAA	/GgA- 8GAL	GgL8GGC8	LG8gAGf GA	Os-gsG-Cf -	8sC88(GO(f	/GALGA((MMG(	GgA- f G-	(GAA	(GAA	AGAA
Start 3766.84 hold at 8921.67 MD - 2nd Bone Spring Sand LZ													
f gAAAGAA	f AGAA	G- f G(	MgsMf GAA	/GgG(G8-	GgL8GCLM	LGsgf LG8-	Os-gsGM8s	8sC88Lf (AO	/GALGA((MMGG	GgG(- GCG	AGAA	AGAA	AGAA
f gGAAGAA	f AGAA	G- f G(	MgsMf GAA	/Ggs(G8-	GgL8GCs	LGsgML G8-	Os-gsGMG O	8sC88LO- (-	/GALGA((MMA(	Ggs(- GCG	AGAA	AGAA	AGAA
f gsAAGAA	f AGAA	G- f G(	MgsMf GAA	/Gg8(G8-	GgL8sG8-	LGsg- LG8-	Os-gsGf GsG	8sC88LLAAM	/GALGA((M f f	Gg8(- GCG	AGAA	AGAA	AGAA
f g8AAGAA	f AGAA	G- f G(	MgsMf GAA	/GgL(G8-	GgL8sCMG	LGsgOLG8-	Os-gsGf CC(	8sC88LGs(f	/GALGA((M f 8	GgL(- GCG	AGAA	AGAA	AGAA
f gLAAGAA	f AGAA	G- f G(	MgsMf GAA	/Gg(G8-	GgL88Gs(	LGsg(LG8-	Os-gsAGAf	8sC888M(GA	/GALGA((M M-	Gg((- GCG	AGAA	AGAA	AGAA
f g(AAGAA	f AGAA	G- f G(	MgsMf GAA	/GgO(G8-	GgL88CCf	LGsg-LG8-	Os-gsA(Q8	8sC888(- OG	/GALGA((M MG	GgO(- GCG	AGAA	AGAA	AGAA
f gOAAGAA	f AGAA	G- f G(	MgsMf GAA	/Gg- (G8-	GgL8LCCL	LGsg8LG8-	Os-gsAQ;M	8sC888AGs	/GALGA((M - (	Gg- (- GCG	AGAA	AGAA	AGAA
f g AAGAA	f AGAA	G- f G(	MgsMf GAA	/GgM(G8O	GgL8LQ;M	LGsgsLG8M	Os-gsGCLs	8sC888AsCL	/GALGA(M Of	GgM(- GCG	AGAA	AGAA	AGAA
f gMAAGAA	f AGAA	G- f G(	MgsMf GAA	/Ggf (G8O	GgL8(GAs	LGsgGLG8M	Os-gsGCMO	8sC88s- (G(	/GALGA((M O8	Ggf (- GCG	AGAA	AGAA	AGAA
f gfAAGAA	f AGAA	G- f G(	MgsMf GAA	/sgA(G8O	GgL8(C-	LGsgALG8M	Os-gssG8G	8sC88sL- CO	/GALGA((M (-	sgA(- GCG	AGAA	AGAA	AGAA
GAgAAAGAA	f AGAA	G- f G(	MgsMf GAA	/sgG(G8O	GgL8(QG	LGGgf LG8M	Os-gssG(	8sC88ssAG-	/GALGA((M (G	sgG(- GCG	AGAA	AGAA	AGAA
GAgGAAGAA	f AGAA	G- f G(	MgsMf GAA	/sgs(G8O	GgL8OG8(	LGGgML G8M	Os-gss8GCf	8sC88Gf sOM	/GALGA(M L(	sgs(- GCG	AGAA	AGAA	AGAA
GAgsAAGAA	f AGAA	G- f G(	MgsMf GAA	/sg8(G8O	GgL8OCMA	LGGg- LG8M	Os-gss8CCL	8sC88GO(Gf	/GALGA(M 8f	sg8(- GCG	AGAA	AGAA	AGAA
GAg8AAGAA	f AGAA	G- f G(	MgsMf GAA	/sgL(G8O	GgL8- GsL	LGGgOL G8M	Os-gssLQAM	8sC88G8- - A	/GALGA((M 88	sgL(- GCG	AGAA	AGAA	AGAA
GAgLAAGAA	f AGAA	G- f G(	MgsMf GAA	/sg((G8O	GgL8- CCM	LGGg(LG8M	Os-gssLQ;s	8sC88GGAsG	/GALGA((M s-	sg((- GCG	AGAA	AGAA	AGAA

2lneeRpa9r y1RHa5Rt dy

Company:	@d Ryyna0eRybH	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di a8.
Project:	0ppHa@dr e HgBUaDBPhaM8T	**TVD Reference:**	sf 8(a6)a as8aN asf (MCAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	sf 8(a6)a as8aN asf (MCAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di a8.	**North Reference:**	6 yS
Wellbore:	w.	**Survey Calculation Method:**	USaS r i a@r y1n r yR
Design:	2lneaG	**Database:**	Cnd nlah SRu Slenla2ydpr 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 (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
GAg(AAGAA	f AGAA	G-f G(	MgsMr GAA	/sgO(GGBO	GgL8MGGs	LGGgLLGGBM	Os-gssLGtO	8sGGBAMs-s	/GALGA((M-sG	sgO(-GGG	AGAA	AGAA	AGAA
GAgOAAGAA	f AGAA	G-f G(	MgsMr GAA	/sg-(GGBO	GgL8MGt-	LGGgBLGGBM	Os-gss(GLG	8sGGBA(s8	/GALGA((M-G(	sg-(-GGG	AGAA	AGAA	AGAA
GAg-AAGAA	f AGAA	G-f G(	MgsMr GAA	/sgM(GGB(	GgL8f GAG	LGGgsLGGBf	Os-gss(GM(	8sGGBAs- - L	/GALGA((M-Af	sgM(-GGG	AGAA	AGAA	AGAA
GAgMAAGAA	f AGAA	G-f G(	MgsMr GAA	/sgf(GGB(	GgL8f GL(	LGGgGLGGBf	Os-gssOGsf	8sGGBAAAs(	/GALGA((M-A8	sgf(-GGG	AGAA	AGAA	AGAA
GAgfAAGAA	f AGAA	G-f G(	MgsMr GAA	/8gA(GGB(	GgL8f GtA	LGGgALGGBf	Os-gssOG L	8sGGsf - s- -	/GALGA((MOf -	8gA(-GGG	AGAA	AGAA	AGAA
GGgAAAGAA	f AGAA	G-f G(	MgsMr GAA	/8gG(GGB(	GgLLAG8L	LGAgfLGGBf	Os-gss- GGM	8sGGsfL(sM	/GALGA((MOf G	8gG(-GGG	AGAA	AGAA	AGAA
GGgGAAGAA	f AGAA	G-f G(	MgsMr GAA	/8gs(GGB(	GgLLAG M	LGAgMLGGBf	Os-gss- GGs	8sGGsfG- f	/GALGA((MOM(	8gs(-GGG	AGAA	AGAA	AGAA
GGgsAAGAA	f AGAA	G-f G(	MgsMr GAA	/8g8(GGB(	GgLLGGs8	LGAg LGGBf	Os-gssMGA-	8sGGsMrA8A	/GALGA((MO-f	8g8(-GGG	AGAA	AGAA	AGAA
GGg8AAGAA	f AGAA	G-f G(	MgsMr GAA	/8gL(GGB(	GgLLGGO-	LGAgOLGGBf	Os-gssMt G	8sGGsMOsMG	/GALGA((MO-8	8gL(-GGG	AGAA	AGAA	AGAA
GGgLAAGAA	f AGAA	G-f G(	MgsMr GAA	/8g((GGB(	GgLLsGGG	LGAg(LGGBf	Os-gssMGt (	8sGGsM8(8s	/GALGA((MOO-	8g((-GGG	AGAA	AGAA	AGAA
GGg(AAGAA	f AGAA	G-f G(	MgsMr GAA	/8gO(GGB(	GgLLs t(	LGAgLLGGBf	Os-gssfGBf	8sGGsMA- M8	/GALGA((MOOG	8gO(-GGG	AGAA	AGAA	AGAA
GGgOAAGAA	f AGAA	G-f G(	MgsMr GAA	/8g-(GGB(	GgLL8GAA	LGAg8LGGBf	Os-gssf GL	8sGGs- MA8L	/GALGA((MO((	8g-(-GGG	AGAA	AGAA	AGAA
GGg-AAGAA	f AGAA	G-f G(	MgsMr GAA	/8gM(GGBL	GgLL8GLL	LGAgsLGGLA	Os-gs8AGsM	8sGGs- (sM(	/GALGA((MOLf	8gM(-GGG	AGAA	AGAA	AGAA
GGgMAAGAA	f AGAA	G-f G(	MgsMr GAA	/8gf(GGBL	GgLL8GGM	LGAgGLGGLA	Os-gs8AGs	8sGGs- s(8O	/GALGA((MOL8	8gf(-GGG	AGAA	AGAA	AGAA
GGgfAAGAA	f AGAA	G-f G(	MgsMr GAA	/LgA(GGBL	GgLLLG88	LGAgALGGLA	Os-gs8GGG-	8sGGsOf - M-	/GALGA((MO8-	LgA(-GGG	AGAA	AGAA	AGAA
GsgAAAGAA	f AGAA	G-f G(	MgsMr GAA	/LgG(GGBL	GgLLLG-	LAfgLGGLA	Os-gs8GGGG	8sGGsO- A8M	/GALGA((MO8G	LgG(-GGG	AGAA	AGAA	AGAA
GsgGAAGAA	f AGAA	G-f G(	MgsMr GAA	/Lgs(GGBL	GgLL(GsG	LAfgMLGGLA	Os-gs8sGA(	8sGGsGLsMf	/GALGA((MOs(	Lgs(-GGG	AGAA	AGAA	AGAA
GsgsAAGAA	f AGAA	G-f G(	MgsMr GAA	/Lg8(GGBL	GgLL(GGO	LAfg LGGLA	Os-gs8s tA	8sGGsOG(LG	/GALGA((MOGf	Lg8(-GGG	AGAA	AGAA	AGAA
Gsg8AAGAA	f AGAA	G-f G(	MgsMr GAA	/LgL(GGBL	GgLLOGGA	LAfgOLGGLA	Os-gs8stfL	8sGGs(M-f s	/GALGA((MOG8	LgL(-GGG	AGAA	AGAA	AGAA
GsgLAAGAA	f AGAA	G-f G(	MgsMr GAA	/Lg((GGBL	GgLLOt(L	LAfg(LGGLA	Os-gs88GBM	8sGGs(OAL8	/GALGA((MOA-	Lg((-GGG	AGAA	AGAA	AGAA
Gsg(AAGAA	f AGAA	G-f G(	MgsMr GAA	/LgO(GGBL	GgLLOGfM	LAfgLLGGLA	Os-gs88GMs	8sGGs(8sf L	/GALGA((MOAG	LgO(-GGG	AGAA	AGAA	AGAA
GsgOAAGAA	f AGAA	G-f G(	MgsMr GAA	/Lg-(GGBL	GgLL-GL8	LAfg8LGGLA	Os-gs8LG-	8sGGs(A(L(	/GALGA((M(f (	Lg-(-GGG	AGAA	AGAA	AGAA
GsgOMMt G	f AGAA	G-f G(	MgsMr GAA	/LgM8f GM(	GgLL-GMs	LAfgs(sGA	Os-gs8LGGO	8sGGsLMGGs	/GALGA((M(f A	LgMLOGGs	AGAA	AGAA	AGAA
Start DLS 9.42 TFO -90.00													
Gsg AAGAA	f AGAA	G-MGGO	MgsMr GAA	/LgM(GG88	GgLL-GfM	LAfgsLGGLG	Os-gs8LGMs	8sGGsL- - f O	/GALGA((M(MD	LgM(-GGG	f GLs	AGAA	/f GLs
Gsg(AGAA	f AGAA	G-8Gf(	MgsMr GAA	/LgfAGGss	GgL(GGsA	LAfgGf GGt s	Os-gs8MGAL	8sGGsLGLs(	/GALGA((MLMD	LgfA-GtA	f GLs	AGAA	/f GLs
GsgMAAGAA	f AGAA	GGfGsL	MgsMr GAA	/Lgf(AGG-	GgL(MGtA	LAfgGLs GA-	Os-gsL(GBL	8sGGsL(AG(	/GALGA((Ms(L	Lgf(OGfM	f GLs	AGAA	/f GLs
GsgM(AGAA	f AGAA	GGLGt8	MgsMr GAA	/Lgf f GB(	GgLGf GML	LAfgAf 8GBf	Os-gs(OGGM	8sGGsL8- sO	/GALGA((- M(s	(gAA(G G	f GLs	AGAA	/f GLs
Gsgf AAGAA	f AGAA	G(f GMs	MgsMr GAA	/(gALOGfL	GgLM(GGL	LAfgAL(GMA	Os-gs- GGfM	8sGGsLsLGO	/GALGA((- LAs	(gA(8GB-	f GLs	AGAA	/f GLs
Gsgf(AGAA	f AGAA	G((GGG	MgsMr GAA	/(gAf 8GGG	Gg(ALGsf	LAMgf f fGG8	Os-gsfGGG8	8sGGsLGGLO	/GALGA((O-M-	(gAf f GGs	f GLs	AGAA	/f GLs
G8gAAAGAA	f AGAA	G(AGLA	MgsMr GAA	/(g88- Gt(	Gg(s- GG-	LAMgf ((GGf	Os-g8GLGAG	8sGGs8f f s8	/GALGA((OA(G	(gGLLGGO	f GLs	AGAA	/f GLs
G8gA(AGAA	f AGAA	GL(GGf	MgsMr GAA	/(gG- f GtO	Gg((8GG8	LAMgfGsGM	Os-g8LAGL-	8sGGs8M-((	/GALGA(((sAA	(gGMOGGf	f GLs	AGAA	/f GLs
G8gGAAGAA	f AGAA	GLAGtM	MgsMr GAA	/(gssAGAO	Gg(M8GL-	LAMgM-sGGM	Os-g8- AG8G	8sGGs8- O(A	/GALGA((Ls8f	(gssOGs	f GLs	AGAA	/f GLs
G8gG(AGAA	f AGAA	G8OGs-	MgsMr GAA	/(gs(- Gt-	GgOGOGt G	LAMgM8(GG-	Os-gLA8G8(	8sGGs8OGG-	/GALGA((8G-(	(gsGLGt-	f GLs	AGAA	/f GLs
G8gsAAGAA	f AGAA	G8GGt O	MgsMr GAA	/(gsfsGGL	GgO(s(s	LAMgMAAGt A	Os-gL8f G8O	8sGGs8(OOG	/GALGA((sAG(	(gsf f GLA	f GLs	AGAA	/f GLs
G8gsG8GGA	f AGAA	G8AGsM	MgsMr GAA	/(g8AGGG(	GgOOsGf	LAMgf GGt f	Os-gLLf GG8	8sGGs8(LGO	/GALGA((GOML	(g8AM8(	f GLs	AGAA	/f GLs
330 No-Perf Entry : 13213.60' MD													

2lneeRpa9r y1RHa5 Rt dy

Company:	@d Ryyna0eRybH	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di a8.
Project:	0ppHa@dr e HgaBUaDBPhaM8T	**TVD Reference:**	sf 8(a6)a as8aN asf (MCAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	sf 8(a6)a as8aN asf (MCAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di a8.	**North Reference:**	6 yS
Wellbore:	w.	**Survey Calculation Method:**	U SeS r i a@r y1n r yR
Design:	2lneaG	**Database:**	Cnd nlah SRu Sdenla2ydpr 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)
G8gs(AC@A	fA@AA	GsO0M(	MgsMf@AA	/(g8s80ML	GgOf GGs(	LAMg- OMCA	Os- g_- M@Af	8s@Gs8L- f A	/GALQ@((A- O-	(g88GCG-	f Cs	A@AA	/f Cs
G8g8AA@A	fA@AA	GssCGL	MgsMf@AA	/(g8(sCG(	Gg- 8sCL	LAMg- LA(f	Os- g(GfGsM	8s@Gs8LAAf	/GALQ@(Lf L8M	(g8(f CCO	f Cs	A@AA	/f Cs
G8g8(A@A	fA@AA	GG- C8	MgsMf@AA	/(g8- OCM	Gg- (0M8	LAMg- G(G O	Os- g(OsCC-	8s@Gs888s8	/GALQ@(LMA8f	(g8ML CCM	f Cs	A@AA	/f Cs
G8g_AA@A	fA@AA	GGsGs	MgsMf@AA	/(g8f MCG-	GgMs GCCA	LAMgOf L(-	Os- gOA- C L	8s@Gs8s- 8-	/GALQ@(LQ(- M	(g_AOCAO	f Cs	A@AA	/f Cs
G8g_(A@A	fA@AA	GAM0AG	MgsMf@AA	/(g_G((-	GgMO- C O	LAMgO- - GG-	Os- gO(L0MA	8s@Gs8ss(O	/GALQ@(L(ACO	(g_s8CC-	f Cs	A@AA	/f Cs
G8g(AA@A	fA@AA	GA8G8A	MgsMf@AA	/(g_sf @AO	Gf GCCAf	LAMgOO8CCM	Os- g- AsC8	8s@Gs8GMMs	/GALQ@(L8(G8	(g_8- G8-	f Cs	A@AA	/f Cs
G8g(A@A	fA@AA	f M(f	MgsMf@AA	/(g_8M((	Gf O(GG-	LAMgO(LCGf	Os- g- (s@AG	8s@Gs8GCG-	/GALQ@(LGf sM	(g_L- @AM	f Cs	A@AA	/f Cs
G8gOAA@A	fA@AA	f 80MM	MgsMf@AA	/(g_L8CCM	sgAGL0MO	LAMgOLMG O	Os- gMAGG A	8s@Gs8GLCL	/GALQ@(LA8sL	(g_(sG s	f Cs	A@AA	/f Cs
G8gO(A@A	fA@AA	M(G-	MgsMf@AA	/(g_L(G8s	sgACL0Ms	LAMgOL- Cs	Os- gM(GCCO	8s@Gs8GLsL	/GALQ@(8M- GA	(g_(LGsM	f Cs	A@AA	/f Cs
G8g- AA@A	fA@AA	ML CLO	MgsMf@AA	/(g_Ls(L	sgGGLG8	LAMgO(AGsA	Os- gf AG(-	8s@Gs8GLf -	/GALQ@(8- Af -	(g_(GG s	f Cs	A@AA	/f Cs
G8g- (A@A	fA@AA	- fG(	MgsMf@AA	/(g_8((CM	sgGCLG8(	LAMgO(- @AO	Os- gf (GCAf	8s@Gs8GCMs	/GALQ@(8(Lf -	(g_LL(@A-	f Cs	A@AA	/f Cs
G8gMAA@A	fA@AA	- (@AL	MgsMf@AA	/(g_sLG-	sgsG8@A8	LAMgOO- C-	Os- gf f f 0M-	8s@Gs8Gf - M	/GALQ@(88f sG	(g_8LG8M	f Cs	A@AA	/f Cs
G8gM(A@A	fA@AA	- AG88	MgsMf@AA	/(g_Af C A	sgsOAG(	LAMgOMs0ML	OsMgAL- (f	8s@Gs8s8ML	/GALQ@(8s8- M	(g_Gf G G	f Cs	A@AA	/f Cs
G8gf AA@A	fA@AA	O(CCs	MgsMf@AA	/(g8f GGCO	sg8A- @Af	LAMg- AG(C M	OsMgAf 8C8	8s@Gs8sMf O	/GALQ@(8AM- f	(g_AGCG-	f Cs	A@AA	/f Cs
G8gf (A@A	fA@AA	OA(C G	MgsMf@AA	/(g8OMCD-	sg8(GG 8	LAMg- sL@A-	OsMgG8M(-	8s@Gs88(GA	/GALQ@(sf L8(	(g8- M0MM	f Cs	A@AA	/f Cs
GLgAAA@A	fA@AA	(OGsA	MgsMf@AA	/(g8Ls(CA	sg8f LG8M	LAMg- (AGGL	OsMgGMGGss	8s@Gs8LssL	/GALQ@(sMA(O	(g8(8@AA	f Cs	A@AA	/f Cs
GLgA(A@A	fA@AA	(GCLf	MgsMf@AA	/(g8G8CGG	sg_8LG L	LAMg- - f CC8	OsMgssG(C M	8s@Gs8(A8s	/GALQ@(sO- Lf	(g8s80CM	f Cs	A@AA	/f Cs
GLgA- - C8s	fA@AA	LM(s	MgsMf@AA	/(gsf (CC8	sg_((G 8	LAMg- f - CGG	OsMgsLs(-	8s@Gs8((GG	/GALQ@(sOA- A	(g8AOGf	f Cs	A@AA	/f Cs
330 No-Perf Exit : 14077.32' MD													
GLgGAA@A	fA@AA	LOGM	MgsMf@AA	/(gsMA(CG	sg_- s(L	LAMgMGs C88	OsMgs(f C8M	8s@Gs8(f sM	/GALQ@(s((s(	(gsf GCC(	f Cs	A@AA	/f Cs
GLgG(A@A	fA@AA	Ls@A-	MgsMf@AA	/(gsLLG G	sg(A- (L	LAMgML M@A8	OsMgsf LC8M	8s@Gs8Cf A-	/GALQ@(sL8f s	(gs((CCA	f Cs	A@AA	/f Cs
GLgsAA@A	fA@AA	8- C8O	MgsMf@AA	/(gsAOGsO	sg(8f CLM	LAMgMMOCLM	OsMg8sO8s	8s@Gs8- f OG	/GALQ@(s88(-	(gsG- GGf	f Cs	A@AA	/f Cs
GLgs(A@A	fA@AA	8sC(	MgsMf@AA	/(g3C(C8s	sg(OMC(	LAMgf s- Cs	OsMg8(LCf	8s@Gs8f AM(	/GALQ@(ssLs-	(gG- OCLM	f Cs	A@AA	/f Cs
GLg8AA@A	fA@AA	s- (L	MgsMf@AA	/(gGssGCO	sg(f 8C8-	LAMgf - A(C M	OsMg8MAGG	8s@Gs8LAsOf	/GALQ@(sGOAf	(g388C8	f Cs	A@AA	/f Cs
GLg8(A@A	fA@AA	s8G8	MgsMf@AA	/(gA- - @AM	sgOGLCO	LAfgAG(CCO	OsMgLAG0MA	8s@Gs8LG(A-	/GALQ@(sAf AM	(gAMMCLL	f Cs	A@AA	/f Cs
GLg_AA@A	fA@AA	GM(s	MgsMf@AA	/(gA8AG8M	sgO8sG-	LAfgAOs C8O	OsMgLGf CCG	8s@Gs8Ls- f A	/GALQ@(sA8sf	(gALG0Ms	f Cs	A@AA	/f Cs
GLg_(A@A	fA@AA	G80MG	MgsMf@AA	/Lgf Ms C8-	sgOLOCCf	LAfgGGAC8-	OsMgL88(C8	8s@GsLLGAM	/GALQ@(GfM-(	Lgf f 80M-	f Cs	A@AA	/f Cs
GLg(AA@A	fA@AA	f CGA	MgsMf@AA	/Lgf 88G8M	sgO(OCDs	LAfgG(f C8O	OsMgLL8CLO	8s@GsL(L(L	/GALQ@(Gf ((A	Lgf LLCs	f Cs	A@AA	/f Cs
GLg(8A(C G	fA@AA	OGs8	MgsMf@AA	/Lgf A8GCL	sgOOACCf	LAfgGMf CCA	OsMgLL- (C8	8s@GsLOsM(	/GALQ@(GfLGO	Lgf GLG G	f Cs	A@AA	/f Cs
Start DLS 2.80 TFO -90.00													
GLgOAA@A	fA@AA	LGsM	MgsMf@AA	/LgM88C(	sgCO- @AO	LAfgs(MCf	OsMgL(8CA	8s@GsLMGM-	/GALQ@(GfsAL	LgML((L	s0MA	A@AA	/s0MA
GLg- AA@A	fA@AA	GCLM	MgsMf@AA	/Lg- 8LGAf	sgO- s@Af	LAfg8(MC(	OsMgL(MC8	8s@Gs(Af 8s	/GALQ@(GfA8L	Lg- L(G A	s0MA	A@AA	/s0MA
GLg- OsGAG	fA@AA	8(f G(	MgsMf@AA	/LgO- s@AM	sgO- sGO	LAfgLsACCO	OsMgL(f CA	8s@Gs(sC8O	/GALQ@(GfAA-	LgOM8G A	s0MA	A@AA	/s0MA
Start 4339.32 hold at 14762.01 MD													
GLgMAA@A	fA@AA	8(f G(	MgsMf@AA	/LgO8LGAf	sgO- s(Cf	LAfgL(MC(	OsMgL(f CL8	8s@Gs(80MA	/GALQ@(GfAAf	LgOL(G G	A@AA	A@AA	A@AA
GLgf AA@A	fA@AA	8(f G(	MgsMf@AA	/Lg(8LGAf	sgO- sCG(	LAfg(MC(	OsMgL(MCf	8s@Gs(CLsf	/GALQ@(GfAG(	Lg(L(G G	A@AA	A@AA	A@AA
G(gAA@A	fA@AA	8(f G(	MgsMf@AA	/Lg_8LGAf	sgO- GGs	LAfgO(MC(	OsMgL(MC(	8s@Gs(f G- M	/GALQ@(GfAsA	Lg_L(G G	A@AA	A@AA	A@AA
G(gAA@A	fA@AA	8(f G(	MgsMf@AA	/Lg88LGGA	sgO- GGsM	LAfg- (MCL	OsMgL(MGs	8s@Gs0Gf s-	/GALQ@(GfAsO	Lg8L(G G	A@AA	A@AA	A@AA

2lneeRpa9r y1RHa5Rt dy

Company:	@d Ryyna0eRybH	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di a8.
Project:	0ppHa@dr e HgaBUaDBPhaM8T	**TVD Reference:**	sf 8(a6)a as8aN asf (MAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	sf 8(a6)a as8aN asf (MAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di a8.	**North Reference:**	6 yS
Wellbore:	w.	**Survey Calculation Method:**	USaS r i a@r y1n r yR
Design:	2lneaG	**Database:**	Cnd nlah SRu Slenla2ydpr 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)
G(gsAAGAA	f AGAA	8(f G(	MgsM GAA	/Lgs8LGGA	sgO- AGML	LAf gM(MGL	OsMgL(- GGM	8sGGsGLO- O	/GALGA(GfA8s	LgsL(G G	AGAA	AGAA	AGAA
G(g8AAGAA	f AGAA	8(f G(	MgsM GAA	/LgG8LGGA	sgO- AGLA	LAf gf (MGL	OsMgL(- GsL	8sGGsO- Ls(	/GALGA(GfA8M	LgGL(G G	AGAA	AGAA	AGAA
G(gLAAGAA	f AGAA	8(f G(	MgsM GAA	/LgA8LGGA	sgOOf GO	LGAgA(MGL	OsMgL(OGMA	8sGGs- AG- L	/GALGA(GfAL8	LgAL(G G	AGAA	AGAA	AGAA
G(g(AAGAA	f AGAA	8(f G(	MgsM GAA	/8gf 8LGGA	sgOOf G¢s	LGAgG(MGL	OsMgL(OGBO	8sGGs- sf s8	/GALGA(GfALf	8gf L(G G	AGAA	AGAA	AGAA
G(gOAAGAA	f AGAA	8(f G(	MgsM GAA	/8gM8LGGA	sgOOf GAM	LGAgs(MGL	OsMgL((G s	8sGGs- (O- s	/GALGA(GfA((	8gML(G G	AGAA	AGAA	AGAA
G(g- AAGAA	f AGAA	8(f G(	MgsM GAA	/8g- 8LGGA	sgOOMGL	LGAg8(MGL	OsMgL((GLM	8sGGs- MLs G	/GALGA(GfAOG	8g- L(G G	AGAA	AGAA	AGAA
G(gMAAGAA	f AGAA	8(f G(	MgsM GAA	/8gO8LGGA	sgOOMGsA	LGAgL(MGL	OsMgL((GAL	8sGGsMGG- A	/GALGA(GfAOO	8gOL(G G	AGAA	AGAA	AGAA
G(gf AAGAA	f AGAA	8(f G(	MgsM GAA	/8g(8LGGA	sgOO- G-	LGAg(MGL	OsMgL(LGGG	8sGGsM8f Gf	/GALGA(GfA- s	8g(L(G G	AGAA	AGAA	AGAA
GOgAAAGAA	f AGAA	8(f G(	MgsM GAA	/8gL8LGGA	sgOO- G88	LGAgO(MGL	OsMgL(LGG-	8sGGsMOOO-	/GALGA(GfA- M	8gL L(G G	AGAA	AGAA	AGAA
GOgGAAGAA	f AGAA	8(f G(	MgsM GAA	/8g88LGGA	sgOOOOMf	LGAg- (MGL	OsMgL(8G 8	8sGGsM LGO	/GALGA(GfAM8	8g8L(G G	AGAA	AGAA	AGAA
GOgsAAGAA	f AGAA	8(f G(	MgsM GAA	/8gs8LGGG	sgOOOOL(	LGAgM(MG8	OsMgL(8Gf	8sGGsf sGO(	/GALGA(GfAMf	8gsL(G G	AGAA	AGAA	AGAA
GOg8AAGAA	f AGAA	8(f G(	MgsM GAA	/8g38LGGG	sgOOOOAG	LGAgf (MG8	OsMgL(sGM(	8sGGsf Lf GL	/GALGA(GfAf (	8gGL(G G	AGAA	AGAA	AGAA
GOgLAAGAA	f AGAA	8(f G(	MgsM GAA	/8gA8LGGG	sgOO(G-	LGGgA(MG8	OsMgL(sGLG	8sGGsf - OO8	/GALGA(GfGAG	8gAL(G G	AGAA	AGAA	AGAA
GOg(AAGAA	f AGAA	8(f G(	MgsM GAA	/sgf 8LGGG	sgOO(GG8	LGGgG(MG8	OsMgL(GG-	8sGG8AALGs	/GALGA(GfGAO	sgf L(G G	AGAA	AGAA	AGAA
GOgOAAGAA	f AGAA	8(f G(	MgsM GAA	/sgM8LGGG	sgOOLOOf	LGGgs(MG8	OsMgL(GG¢8	8sGG8A8GOG	/GALGA(GfGGs	sgML(G G	AGAA	AGAA	AGAA
GOg- AAGAA	f AGAA	8(f G(	MgsM GAA	/sg- 8LGGG	sgOOLGsO	LGGg8(MG8	OsMgL(GGGA	8sGG8A(f GA	/GALGA(GfGGM	sg- L(G G	AGAA	AGAA	AGAA
GOgMAAGAA	f AGAA	8(f G(	MgsM GAA	/sgO8LGGG	sgOO8GMs	LGGgL(MG8	OsMgL(AGGO	8sGG8AMO(f	/GALGA(GfGsL	sgOL(G G	AGAA	AGAA	AGAA
GOgf AAGAA	f AGAA	8(f G(	MgsM GAA	/sg(8LGGG	sgOO8G8M	LGGg(MG8	OsMgL(AGss	8sGG8GGLAM	/GALGA(GfGsf	sg(L(G G	AGAA	AGAA	AGAA
G- gAAAGAA	f AGAA	8(f G(	MgsM GAA	/sgL8LGGG	sgOOs¢L	LGGgO(MG8	OsMgL Lf GM	8sGG8GLG(-	/GALGA(GfG8(	sgLL(G G	AGAA	AGAA	AGAA
G- gGAAGAA	f AGAA	8(f G(	MgsM GAA	/sg88LGGG	sgOOs¢A	LGGg- (MG8	OsMgL Lf G8L	8sGG8GOf AO	/GALGA(GfGLG	sg8L(G G	AGAA	AGAA	AGAA
G- gsAAGAA	f AGAA	8(f G(	MgsM GAA	/sgs8LGGs	sgOOs GAO	LGGgM(MGs	OsMgL LM¢A	8sGG8Gf O((	/GALGA(GfGL-	sgsL(G G	AGAA	AGAA	AGAA
G- g8AAGAA	f AGAA	8(f G(	MgsM GAA	/sgG8LGGs	sgOOGGOs	LGGgf (MGs	OsMgL LM¢LO	8sGG8ssLA8	/GALGA(GfG(s	sgGL(G G	AGAA	AGAA	AGAA
G- gLAAGAA	f AGAA	8(f G(	MgsM GAA	/sgA8LGGs	sgOOGGGM	LGsgA(MGs	OsMgL LMGAs	8sGG8s(G(s	/GALGA(GfG(M	sgAL(G G	AGAA	AGAA	AGAA
G- g(AAGAA	f AGAA	8(f G(	MgsM GAA	/Ggf 8LGGs	sgOOAG(	LGsgG(MGs	OsMgL- ¢f	8sGG8s- f AG	/GALGA(GfGOL	Ggf L(G G	AGAA	AGAA	AGAA
G- gOAAGAA	f AGAA	8(f G(	MgsM GAA	/GgM8LGGs	sgOOAG8G	LGsgs(MGs	OsMgL- GG(	8sGG88AO(A	/GALGA(GfGOf	GgML(G G	AGAA	AGAA	AGAA
G- g- AAGAA	f AGAA	8(f G(	MgsM GAA	/Gg- 8LGGs	sgO(f GM	LGsg8(MGs	OsMgL LOG G	8sGG8888f f	/GALGA(GfG- (	Gg- L(G G	AGAA	AGAA	AGAA
G- gMAAGAA	f AGAA	8(f G(	MgsM GAA	/GgO8LGGs	sgO(f GL8	LGsgL(MGs	OsMgL LOG-	8sGG88OGLM	/GALGA(GfGMG	GgOL(G G	AGAA	AGAA	AGAA
G- gf AAGAA	f AGAA	8(f G(	MgsM GAA	/Gg(8LGGs	sgO(MGf	LGsg(MGs	OsMgL(GM8	8sGG88MMf -	/GALGA(GfGM4	Gg(L(G G	AGAA	AGAA	AGAA
GMgAAAGAA	f AGAA	8(f G(	MgsM GAA	/Gg_8LGGs	sgO(MG¢(	LGsgO(MGs	OsMgL(G8f	8sGG8LGGLO	/GALGA(GfGf s	GgLL(G G	AGAA	AGAA	AGAA
GMgGAAGAA	f AGAA	8(f G(	MgsM GAA	/Gg88LGGs	sgO(MGGG	LGsg- (MGs	OsMgL LLG¢(	8sGG8LL8f (	/GALGA(GfGfM	Gg8L(G G	AGAA	AGAA	AGAA
GMgsAAGAA	f AGAA	8(f G(	MgsM GAA	/Ggs8LGG8	sgO(- GO-	LGsgM(MGG	OsMgL LLG¢G	8sGG8L- GLL	/GALGA(GfsAL	GgsL(G G	AGAA	AGAA	AGAA
GMg8AAGAA	f AGAA	8(f G(	MgsM GAA	/GgG8LGG8	sgO(- GsL	LGsgf (MGG	OsMgL LLGAM	8sGG8Lf M8	/GALGA(GfsGA	GgGL(G G	AGAA	AGAA	AGAA
GMgLAAGAA	f AGAA	8(f G(	MgsM GAA	/GgA8LGG8	sgO(OOMA	LG8gA(MGG	OsMgL L8GCL	8sGG8(sCLs	/GALGA(GfsG(	GgAL(G G	AGAA	AGAA	AGAA
GMg(AAGAA	f AGAA	8(f G(	MgsM GAA	/f 8LGG8	sgO(OG8O	LG8gG(MGG	OsMgL L8GsA	8sGG8((8f A	/GALGA(GfssG	f L(G G	AGAA	AGAA	AGAA
GMgOAAGAA	f AGAA	8(f G(	MgsM GAA	/M8LGG8	sgO((G s	LG8gs(MGG	OsMgL LsG O	8sGG8(MG8f	/GALGA(Gfss-	ML(G G	AGAA	AGAA	AGAA
GMg- AAGAA	f AGAA	8(f G(	MgsM GAA	/- 8LGG8	sgO((GLM	LG8g8(MGG	OsMgL LsG8s	8sGG8OAMMM	/GALGA(Gfs88	- L(G G	AGAA	AGAA	AGAA
GMgMAAGAA	f AGAA	8(f G(	MgsM GAA	/O8LGG8	sgO((GAL	LG8gL(MGG	OsMgL LGGMM	8sGG8O8O8-	/GALGA(Gfs8M	GL(G G	AGAA	AGAA	AGAA
GMgf AAGAA	f AGAA	8(f G(	MgsM GAA	/(8LGG8	sgO(LGGA	LG8g(MGG	OsMgL LGGLL	8sGG8OO8MD	/GALGA(GfsLL	(L(G G	AGAA	AGAA	AGAA

2lneeRpa9r y1RHa5Rt dy

Company:	@d Ryyna0eRybH	**Local Co-ordinate Reference:**	' RIa5 SIRy4RepaGLa+RpRynla@di a8.
Project:	0ppHa@dr e HgBUaDBPhaM8T	**TVD Reference:**	sf 8(a6)a as8aN asf (MCAAr voaD@nur vaG(OT
Site:	5 SIRy4RepaGLa+RpRynla@di	**MD Reference:**	sf 8(a6)a as8aN asf (MCAAr voaD@nur vaG(OT
Well:	5 SIRy4RepaGLa+RpRynla@di a8.	**North Reference:**	6 yS
Wellbore:	w.	**Survey Calculation Method:**	USeS r i a@r y1n r yR
Design:	2lneaG	**Database:**	Cnd nlah SyRu Slenla2ydpr 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 Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
GfgAAACAA	fACAA	8(fG(	MgsMfCAA	/L8LCC8	sgO(LCCO	LG8gO(MCCG	OsMgLLGCAA	8sCC8CfG8(	/GALCA(Gfs(A	LL(GG	ACAA	ACAA	ACAA
GfgGACC88	fACAA	8(fG(	MgsMfCAA	/88sCMA	sgO(8Gs	LG8g-(fCL	OsMgLLACCO	8sCC8-GfsG	/GALCA(Gfs(O	8LLC8M	ACAA	ACAA	ACAA
TD at 19101.33													

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
)2a@y1asaD5 SIRy4RepaGLa /alneai SvRvanybRauRe Rya4Hs((sGCC-r voan aACAAr voaUhaDACAAamk hgACAAaBgaACAAa0T /a2dSe	ACAA	ACAA	ACAA	/LgM8GGsO	sgO-8C8	LAfgsOCGCLM	OsMgLOAC8-	8sCCsLMsOA	/GALCA(GMf f(
2RnEa@y1asaD5 SIRy4RepaC /alneai SvRvanybRauRe Rya4Hs(MsOCCfr voan aACAAr voaUhaDACAAamk hgACAAaBgaACAAa0T /a2dSe	ACAA	ACAA	ACAA	/(gLLMCLA	sgACLCCO	LAMgCLLG8L	Os-gM(GCMA	8sCCs8G88f	/GALCA(8M-A(
+m2aD5 SIRy4RepaGLa+RpF /alneai SvRvanybRauRe Rya4HaGLOfCC-r voan aACAAr voaUhaDACAAamk hgACAAaBgaACAAa0T /a2dSe	ACAA	ACAA	ACAA	/8L-C8f	GgLsMCAs	LG8g-L(C8(	Os-gsGLCMO	8sCC8-GCA-	/GALCA((MM(O
Kw2asaD5 SIRy4RepaGLa+F /alneai SvRvanybRauRe Rya4Hs(A(GGCr voan aACAAr voaUhaDACAAamk hgACAAaBgaACAAa0T /a2dSe	ACAA	ACAA	ACAA	/LgM8fCML	GgLL-CMs	LAfgs(sCCA	Os-gs8LCCO	8sCCsLMGGs	/GALCA((M(fA
)22aD5 SIRy4RepaGLa+RpF /alneai SvRvanybRauRe Rya4Hs8AM8G(r voan aACAAr voaUhaDACAAamk hgACAAaBgaACAAa0T /a2dSe	ACAA	ACAA	ACAA	/Gg(OGCCf	sgO(fCC8	LGsg(8GCG(	OsMgLL(CC-	8sCC88MGLs	/GALCA(GfGM(
B2"asaD5 SIRy4RepaGLa+F /alneai SvRvanybRauRe Rya4Hs(MLGCC-r voan aACAAr voaUhaDACAAamk hgACAAaBgaACAAa0T /a2dSe	ACAA	ACAA	ACAA	/(gsfOCCs	sgLO(CAA	LAMgfOCCs	OsMgs(GCML	8sCCs8(Lf-	/GALCA(s(--A
)m2aD5 SIRy4RepaGLa+RpF /alneai SvRvanybRauRe Rya4HasO-LC¢Gr voan aACAAr voaUhaDACAAamk hgACAAaBgaACAAa0T /a2dSe	ACAA	ACAA	ACAA	/88sCMA	sgO(8Gs	LG8g-(fCL	OsMgLLACCO	8sCC8-GfsG	/GALCA(Gfs(O
B2"aGaD5 SIRy4RepaGLa+F /alneai SvRvanybRauRe Rya4Hs(((OC8Mr voan aACAAr voaUhaDACAAamk hgACAAaBgaACAAa0T /a2dSe	ACAA	ACAA	ACAA	/(g8AGG8	GgOOsCM8	LAMgfGCAG	Os-gLfCC-	8sCCs8(LAA	/GALCA((GCM8

2lneeRpa9r y1RHa5Rtdy

Company:	@dRyyna0eRybH	**Local Co-ordinate Reference:**	' RIa5SIRy4RepaGLa+RpRynla@di a8.
Project:	0ppHa@dr e HgaBUaDBPhaM8T	**TVD Reference:**	sf 8(a6)a as8aNasf(MCAArvoaD@nur vaG(OT
Site:	5SIRy4RepaGLa+RpRynla@di	**MD Reference:**	sf 8(a6)a as8aNasf(MCAArvoaD@nur vaG(OT
Well:	5SIRy4RepaGLa+RpRynla@di a8.	**North Reference:**	6yS
Wellbore:	w.	**Survey Calculation Method:**	USeSri a@ry1n ryR
Design:	2lneaG	**Database:**	Cmdnlah SyRu Sdenla2ydpru Sdeah x

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
GgAfGCAA	GgAfGCAA	5rvlRy			
Gg(-ACAA	Gg(-ACAA	mdta9nl			
sg8O(CC-	sg8OsCAA	xnvRa9nl°)ni ny			
sg((MCCL	sg((ACAA	mdtahRnFnyRa9nepv°xRIa@neHde			
8gL(fGf	8gLs(CAA	@8RyyHa@neHde			
LgMAACG	Lg-s-CAA	xyrv3Ha@neHde			
(g--GCMf	(gO-ACAA	)dFRyaxyrv3Ha@neHde			
OgL((G8	Og88LCAA	xdeRa9tyaSba)S R			
-gLAfCLG	-gsOACAA	GvaxdeRa9tyaSba9nep			
MgGsGCAA	-gfLLCAA	sepaxdeRa9tyaSba9nep			
MgfsGCC-	MgsMfCAA	sepaxdeRa9tyaSba9nepa)"			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
GMAA	GMAA	A	A	9nyah)9asCAAam+waGALGs
-fA8	--8f	/8(A	G88s	9nyah)9aGACAAam+wafCAO
MCss	Ms(A	/--O	GL8A	9nyah)9a(CAAam+walACAG
Mfss	MsMf	/GA-8	GL8G	9nya8-CCCMLa8dlpanaMfsGCC-aUh
GsgCMf	MsMf	/LMLA	GLLM	9nyah)9afCLsam+wafACAA
G8gsGL	MsMf	/(8AG	GCC8	88AaBd/2RyaC0eyHaaG8sG8CCAaUh
GLgA--	MsMf	/(sfO	sL(O	88AaBd/2RyaC0V8aaGLA--G8saUh
GLg(8G	MsMf	/LfA8	sCCG	9nyah)9asCMAam+wafACAA
GLg-Os	MsMf	/LO-s	sO-8	9nyaL88fG8sa8dlpanaGL-OsCAGaUh
GfgGAG	MsMf	/888	sC(L	mhanaGfGAGG88

@8RuERpaxH _____ Ptt yd1Rpax H _____ hn R: _____

COMPANY	Coterra Energy
FIELD	Eddy County, NM (NAD 83)
SITE	Riverbend 14 Federal Com
WELL	Riverbend 14 Federal Com 3H
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	-104.060496
WELL EW MAI	625786.84
WELL NS MAP	414092.74
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 - 19100.64 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	0.00	0.00	100.00	600.00	2358.00	0.00
700.00	0.00	0.00	100.00	700.00	2258.00	0.00
800.00	0.00	0.00	100.00	800.00	2158.00	0.00
900.00	0.00	0.00	100.00	900.00	2058.00	0.00
1000.00	0.00	0.00	100.00	1000.00	1958.00	0.00
1100.00	0.00	0.00	100.00	1100.00	1858.00	0.00
1200.00	0.00	0.00	100.00	1200.00	1758.00	0.00
1300.00	0.00	0.00	100.00	1300.00	1658.00	0.00

1400.00	0.00	0.00	100.00	1400.00	1558.00	0.00
1500.00	0.00	0.00	100.00	1500.00	1458.00	0.00
1600.00	0.00	0.00	100.00	1600.00	1358.00	0.00
1700.00	0.00	0.00	100.00	1700.00	1258.00	0.00
1800.00	0.00	0.00	100.00	1800.00	1158.00	0.00
1900.00	2.00	104.72	100.00	1899.98	1058.02	-0.44
2000.00	4.00	104.72	100.00	1999.84	958.16	-1.77
2100.00	6.00	104.72	100.00	2099.45	858.55	-3.99
2200.00	8.00	104.72	100.00	2198.70	759.30	-7.09
2300.00	10.00	104.72	100.00	2297.47	660.54	-11.06
2400.00	12.00	104.72	100.00	2395.62	562.38	-15.91
2491.84	13.84	104.72	91.84	2485.13	472.87	-21.13
2500.00	13.84	104.72	8.16	2493.06	464.94	-21.62
2600.00	13.84	104.72	100.00	2590.16	367.84	-27.70
2700.00	13.84	104.72	100.00	2687.25	270.75	-33.78
2800.00	13.84	104.72	100.00	2784.35	173.65	-39.86
2900.00	13.84	104.72	100.00	2881.45	76.55	-45.94
3000.00	13.84	104.72	100.00	2978.55	-20.55	-52.01
3100.00	13.84	104.72	100.00	3075.65	-117.65	-58.09
3200.00	13.84	104.72	100.00	3172.75	-214.75	-64.17
3300.00	13.84	104.72	100.00	3269.84	-311.84	-70.25
3400.00	13.84	104.72	100.00	3366.94	-408.94	-76.32
3500.00	13.84	104.72	100.00	3464.04	-506.04	-82.40
3600.00	13.84	104.72	100.00	3561.14	-603.14	-88.48
3700.00	13.84	104.72	100.00	3658.24	-700.24	-94.56
3800.00	13.84	104.72	100.00	3755.33	-797.33	-100.64
3900.00	13.84	104.72	100.00	3852.43	-894.43	-106.71
4000.00	13.84	104.72	100.00	3949.53	-991.53	-112.79
4100.00	13.84	104.72	100.00	4046.63	-1088.63	-118.87
4200.00	13.84	104.72	100.00	4143.73	-1185.73	-124.95
4300.00	13.84	104.72	100.00	4240.82	-1282.82	-131.02
4400.00	13.84	104.72	100.00	4337.92	-1379.92	-137.10
4500.00	13.84	104.72	100.00	4435.02	-1477.02	-143.18
4600.00	13.84	104.72	100.00	4532.12	-1574.12	-149.26
4700.00	13.84	104.72	100.00	4629.22	-1671.22	-155.34
4800.00	13.84	104.72	100.00	4726.31	-1768.31	-161.41
4900.00	13.84	104.72	100.00	4823.41	-1865.41	-167.49
5000.00	13.84	104.72	100.00	4920.51	-1962.51	-173.57
5100.00	13.84	104.72	100.00	5017.61	-2059.61	-179.65
5200.00	13.84	104.72	100.00	5114.71	-2156.71	-185.73
5300.00	13.84	104.72	100.00	5211.81	-2253.81	-191.80
5400.00	13.84	104.72	100.00	5308.90	-2350.90	-197.88
5500.00	13.84	104.72	100.00	5406.00	-2448.00	-203.96
5600.00	13.84	104.72	100.00	5503.10	-2545.10	-210.04

5700.00	13.84	104.72	100.00	5600.20	-2642.20	-216.11
5800.00	13.84	104.72	100.00	5697.30	-2739.30	-222.19
5900.00	13.84	104.72	100.00	5794.39	-2836.39	-228.27
6000.00	13.84	104.72	100.00	5891.49	-2933.49	-234.35
6100.00	13.84	104.72	100.00	5988.59	-3030.59	-240.43
6200.00	13.84	104.72	100.00	6085.69	-3127.69	-246.50
6300.00	13.84	104.72	100.00	6182.79	-3224.79	-252.58
6400.00	13.84	104.72	100.00	6279.88	-3321.88	-258.66
6500.00	13.84	104.72	100.00	6376.98	-3418.98	-264.74
6600.00	13.84	104.72	100.00	6474.08	-3516.08	-270.81
6700.00	13.84	104.72	100.00	6571.18	-3613.18	-276.89
6800.00	13.84	104.72	100.00	6668.28	-3710.28	-282.97
6900.00	13.84	104.72	100.00	6765.37	-3807.37	-289.05
7000.00	13.84	104.72	100.00	6862.47	-3904.47	-295.13
7100.00	13.84	104.72	100.00	6959.57	-4001.57	-301.20
7200.00	13.84	104.72	100.00	7056.67	-4098.67	-307.28
7300.00	13.84	104.72	100.00	7153.77	-4195.77	-313.36
7400.00	13.84	104.72	100.00	7250.87	-4292.87	-319.44
7500.00	13.84	104.72	100.00	7347.96	-4389.96	-325.52
7600.00	13.84	104.72	100.00	7445.06	-4487.06	-331.59
7700.00	13.84	104.72	100.00	7542.16	-4584.16	-337.67
7800.00	13.84	104.72	100.00	7639.26	-4681.26	-343.75
7902.86	13.84	104.72	102.86	7739.13	-4781.13	-350.00
7950.00	15.43	122.38	47.14	7784.76	-4826.76	-354.79
8000.00	18.31	136.56	50.00	7832.63	-4874.63	-364.06
8050.00	21.94	146.60	50.00	7879.58	-4921.58	-377.57
8100.00	26.01	153.78	50.00	7925.27	-4967.27	-395.21
8150.00	30.34	159.08	50.00	7969.35	-5011.35	-416.85
8200.00	34.84	163.15	50.00	8011.47	-5053.47	-442.33
8250.00	39.44	166.38	50.00	8051.32	-5093.32	-471.45
8300.00	44.12	169.04	50.00	8088.60	-5130.60	-503.99
8350.00	48.85	171.27	50.00	8123.02	-5165.02	-539.71
8400.00	53.62	173.21	50.00	8154.32	-5196.32	-578.32
8450.00	58.41	174.92	50.00	8182.27	-5224.27	-619.55
8500.00	63.23	176.46	50.00	8206.64	-5248.64	-663.06
8550.00	68.06	177.88	50.00	8227.26	-5269.26	-708.54
8600.00	72.90	179.20	50.00	8243.96	-5285.96	-755.64
8621.67	75.00	179.75	21.67	8249.95	-5291.95	-776.46
8700.00	78.92	179.75	78.33	8267.63	-5309.63	-852.75
8800.00	83.92	179.75	100.00	8282.55	-5324.55	-951.60
8900.00	88.92	179.75	100.00	8288.79	-5330.79	-1051.37
8921.67	90.00	179.75	21.67	8289.00	-5331.00	-1073.04
9000.00	90.00	179.75	78.33	8289.00	-5331.00	-1151.37
9100.00	90.00	179.75	100.00	8289.00	-5331.00	-1251.37

9200.00	90.00	179.75	100.00	8289.00	-5331.00	-1351.37
9300.00	90.00	179.75	100.00	8289.00	-5331.00	-1451.37
9400.00	90.00	179.75	100.00	8289.00	-5331.00	-1551.37
9500.00	90.00	179.75	100.00	8289.00	-5331.00	-1651.37
9600.00	90.00	179.75	100.00	8289.00	-5331.00	-1751.37
9700.00	90.00	179.75	100.00	8289.00	-5331.00	-1851.36
9800.00	90.00	179.75	100.00	8289.00	-5331.00	-1951.36
9900.00	90.00	179.75	100.00	8289.00	-5331.00	-2051.36
10000.00	90.00	179.75	100.00	8289.00	-5331.00	-2151.36
10100.00	90.00	179.75	100.00	8289.00	-5331.00	-2251.36
10200.00	90.00	179.75	100.00	8289.00	-5331.00	-2351.36
10300.00	90.00	179.75	100.00	8289.00	-5331.00	-2451.36
10400.00	90.00	179.75	100.00	8289.00	-5331.00	-2551.36
10500.00	90.00	179.75	100.00	8289.00	-5331.00	-2651.36
10600.00	90.00	179.75	100.00	8289.00	-5331.00	-2751.36
10700.00	90.00	179.75	100.00	8289.00	-5331.00	-2851.35
10800.00	90.00	179.75	100.00	8289.00	-5331.00	-2951.35
10900.00	90.00	179.75	100.00	8289.00	-5331.00	-3051.35
11000.00	90.00	179.75	100.00	8289.00	-5331.00	-3151.35
11100.00	90.00	179.75	100.00	8289.00	-5331.00	-3251.35
11200.00	90.00	179.75	100.00	8289.00	-5331.00	-3351.35
11300.00	90.00	179.75	100.00	8289.00	-5331.00	-3451.35
11400.00	90.00	179.75	100.00	8289.00	-5331.00	-3551.35
11500.00	90.00	179.75	100.00	8289.00	-5331.00	-3651.35
11600.00	90.00	179.75	100.00	8289.00	-5331.00	-3751.35
11700.00	90.00	179.75	100.00	8289.00	-5331.00	-3851.35
11800.00	90.00	179.75	100.00	8289.00	-5331.00	-3951.34
11900.00	90.00	179.75	100.00	8289.00	-5331.00	-4051.34
12000.00	90.00	179.75	100.00	8289.00	-5331.00	-4151.34
12100.00	90.00	179.75	100.00	8289.00	-5331.00	-4251.34
12200.00	90.00	179.75	100.00	8289.00	-5331.00	-4351.34
12300.00	90.00	179.75	100.00	8289.00	-5331.00	-4451.34
12400.00	90.00	179.75	100.00	8289.00	-5331.00	-4551.34
12500.00	90.00	179.75	100.00	8289.00	-5331.00	-4651.34
12600.00	90.00	179.75	100.00	8289.00	-5331.00	-4751.34
12688.51	90.00	179.75	88.51	8289.00	-5331.00	-4839.84
12700.00	90.00	178.66	11.50	8289.00	-5331.00	-4851.33
12750.00	90.00	173.95	50.00	8289.00	-5331.00	-4901.22
12800.00	90.00	169.24	50.00	8289.00	-5331.00	-4950.67
12850.00	90.00	164.53	50.00	8289.00	-5331.00	-4999.35
12900.00	90.00	159.82	50.00	8289.00	-5331.00	-5046.94
12950.00	90.00	155.11	50.00	8289.00	-5331.00	-5093.11
13000.00	90.00	150.40	50.00	8289.00	-5331.00	-5137.55
13050.00	90.00	145.69	50.00	8289.00	-5331.00	-5179.96

13100.00	90.00	140.98	50.00	8289.00	-5331.00	-5220.06
13150.00	90.00	136.27	50.00	8289.00	-5331.00	-5257.57
13200.00	90.00	131.56	50.00	8289.00	-5331.00	-5292.24
13250.00	90.00	126.85	50.00	8289.00	-5331.00	-5323.84
13300.00	90.00	122.14	50.00	8289.00	-5331.00	-5352.15
13350.00	90.00	117.43	50.00	8289.00	-5331.00	-5376.98
13400.00	90.00	112.72	50.00	8289.00	-5331.00	-5398.17
13450.00	90.00	108.01	50.00	8289.00	-5331.00	-5415.57
13500.00	90.00	103.30	50.00	8289.00	-5331.00	-5429.06
13550.00	90.00	98.59	50.00	8289.00	-5331.00	-5438.55
13600.00	90.00	93.88	50.00	8289.00	-5331.00	-5443.98
13650.00	90.00	89.17	50.00	8289.00	-5331.00	-5445.32
13700.00	90.00	84.46	50.00	8289.00	-5331.00	-5442.54
13750.00	90.00	79.75	50.00	8289.00	-5331.00	-5435.68
13800.00	90.00	75.04	50.00	8289.00	-5331.00	-5424.78
13850.00	90.00	70.33	50.00	8289.00	-5331.00	-5409.90
13900.00	90.00	65.62	50.00	8289.00	-5331.00	-5391.16
13950.00	90.00	60.91	50.00	8289.00	-5331.00	-5368.67
14000.00	90.00	56.20	50.00	8289.00	-5331.00	-5342.60
14050.00	90.00	51.49	50.00	8289.00	-5331.00	-5313.11
14100.00	90.00	46.78	50.00	8289.00	-5331.00	-5280.41
14150.00	90.00	42.07	50.00	8289.00	-5331.00	-5244.71
14200.00	90.00	37.36	50.00	8289.00	-5331.00	-5206.26
14250.00	90.00	32.65	50.00	8289.00	-5331.00	-5165.32
14300.00	90.00	27.94	50.00	8289.00	-5331.00	-5122.16
14350.00	90.00	23.23	50.00	8289.00	-5331.00	-5077.08
14400.00	90.00	18.52	50.00	8289.00	-5331.00	-5030.38
14450.00	90.00	13.81	50.00	8289.00	-5331.00	-4982.37
14500.00	90.00	9.10	50.00	8289.00	-5331.00	-4933.38
14530.51	90.00	6.23	30.51	8289.00	-5331.00	-4903.15
14600.00	90.00	4.28	69.50	8289.00	-5331.00	-4833.95
14700.00	90.00	1.49	100.00	8289.00	-5331.00	-4734.09
14762.01	90.00	359.75	62.01	8289.00	-5331.00	-4672.08
14800.00	90.00	359.75	37.99	8289.00	-5331.00	-4634.09
14900.00	90.00	359.75	100.00	8289.00	-5331.00	-4534.09
15000.00	90.00	359.75	100.00	8289.00	-5331.00	-4434.09
15100.00	90.00	359.75	100.00	8289.00	-5331.00	-4334.10
15200.00	90.00	359.75	100.00	8289.00	-5331.00	-4234.10
15300.00	90.00	359.75	100.00	8289.00	-5331.00	-4134.10
15400.00	90.00	359.75	100.00	8289.00	-5331.00	-4034.10
15500.00	90.00	359.75	100.00	8289.00	-5331.00	-3934.10
15600.00	90.00	359.75	100.00	8289.00	-5331.00	-3834.10
15700.00	90.00	359.75	100.00	8289.00	-5331.00	-3734.10
15800.00	90.00	359.75	100.00	8289.00	-5331.00	-3634.10

15900.00	90.00	359.75	100.00	8289.00	-5331.00	-3534.10
16000.00	90.00	359.75	100.00	8289.00	-5331.00	-3434.10
16100.00	90.00	359.75	100.00	8289.00	-5331.00	-3334.11
16200.00	90.00	359.75	100.00	8289.00	-5331.00	-3234.11
16300.00	90.00	359.75	100.00	8289.00	-5331.00	-3134.11
16400.00	90.00	359.75	100.00	8289.00	-5331.00	-3034.11
16500.00	90.00	359.75	100.00	8289.00	-5331.00	-2934.11
16600.00	90.00	359.75	100.00	8289.00	-5331.00	-2834.11
16700.00	90.00	359.75	100.00	8289.00	-5331.00	-2734.11
16800.00	90.00	359.75	100.00	8289.00	-5331.00	-2634.11
16900.00	90.00	359.75	100.00	8289.00	-5331.00	-2534.11
17000.00	90.00	359.75	100.00	8289.00	-5331.00	-2434.11
17100.00	90.00	359.75	100.00	8289.00	-5331.00	-2334.11
17200.00	90.00	359.75	100.00	8289.00	-5331.00	-2234.12
17300.00	90.00	359.75	100.00	8289.00	-5331.00	-2134.12
17400.00	90.00	359.75	100.00	8289.00	-5331.00	-2034.12
17500.00	90.00	359.75	100.00	8289.00	-5331.00	-1934.12
17600.00	90.00	359.75	100.00	8289.00	-5331.00	-1834.12
17700.00	90.00	359.75	100.00	8289.00	-5331.00	-1734.12
17800.00	90.00	359.75	100.00	8289.00	-5331.00	-1634.12
17900.00	90.00	359.75	100.00	8289.00	-5331.00	-1534.12
18000.00	90.00	359.75	100.00	8289.00	-5331.00	-1434.12
18100.00	90.00	359.75	100.00	8289.00	-5331.00	-1334.12
18200.00	90.00	359.75	100.00	8289.00	-5331.00	-1234.13
18300.00	90.00	359.75	100.00	8289.00	-5331.00	-1134.13
18400.00	90.00	359.75	100.00	8289.00	-5331.00	-1034.13
18500.00	90.00	359.75	100.00	8289.00	-5331.00	-934.13
18600.00	90.00	359.75	100.00	8289.00	-5331.00	-834.13
18700.00	90.00	359.75	100.00	8289.00	-5331.00	-734.13
18800.00	90.00	359.75	100.00	8289.00	-5331.00	-634.13
18900.00	90.00	359.75	100.00	8289.00	-5331.00	-534.13
19000.00	90.00	359.75	100.00	8289.00	-5331.00	-434.13
19101.33	90.00	359.75	101.33	8289.00	-5331.00	-332.80

Local E/-W EW	Easting X	Northing Y	Latitude LAT	Longitude LON	Dogleg Severit DLS	Build Rate BLD
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00

0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
0.00	625786.84	414092.74	32.138126	-104.060496	0.00	0.00
1.69	625788.53	414092.30	32.138124	-104.060491	2.00	2.00
6.75	625793.59	414090.97	32.138121	-104.060474	2.00	2.00
15.18	625802.02	414088.75	32.138115	-104.060447	2.00	2.00
26.97	625813.81	414085.66	32.138106	-104.060409	2.00	2.00
42.09	625828.93	414081.68	32.138095	-104.060360	2.00	2.00
60.55	625847.39	414076.83	32.138081	-104.060301	2.00	2.00
80.40	625867.24	414071.61	32.138067	-104.060237	2.00	2.00
82.29	625869.13	414071.12	32.138066	-104.060231	0.00	0.00
105.42	625892.26	414065.04	32.138049	-104.060156	0.00	0.00
128.55	625915.39	414058.96	32.138032	-104.060081	0.00	0.00
151.68	625938.52	414052.88	32.138015	-104.060007	0.00	0.00
174.81	625961.65	414046.81	32.137998	-104.059932	0.00	0.00
197.94	625984.78	414040.73	32.137981	-104.059857	0.00	0.00
221.08	626007.92	414034.65	32.137964	-104.059782	0.00	0.00
244.21	626031.05	414028.57	32.137948	-104.059708	0.00	0.00
267.34	626054.18	414022.49	32.137931	-104.059633	0.00	0.00
290.47	626077.31	414016.42	32.137914	-104.059558	0.00	0.00
313.60	626100.44	414010.34	32.137897	-104.059484	0.00	0.00
336.73	626123.57	414004.26	32.137880	-104.059409	0.00	0.00
359.86	626146.70	413998.18	32.137863	-104.059334	0.00	0.00
382.99	626169.83	413992.11	32.137846	-104.059260	0.00	0.00
406.12	626192.96	413986.03	32.137829	-104.059185	0.00	0.00
429.25	626216.09	413979.95	32.137813	-104.059110	0.00	0.00
452.38	626239.22	413973.87	32.137796	-104.059036	0.00	0.00
475.51	626262.35	413967.79	32.137779	-104.058961	0.00	0.00
498.64	626285.48	413961.72	32.137762	-104.058886	0.00	0.00
521.77	626308.61	413955.64	32.137745	-104.058812	0.00	0.00
544.90	626331.74	413949.56	32.137728	-104.058737	0.00	0.00
568.03	626354.87	413943.48	32.137711	-104.058662	0.00	0.00
591.16	626378.00	413937.40	32.137695	-104.058588	0.00	0.00
614.29	626401.13	413931.33	32.137678	-104.058513	0.00	0.00
637.42	626424.26	413925.25	32.137661	-104.058438	0.00	0.00
660.55	626447.39	413919.17	32.137644	-104.058364	0.00	0.00
683.69	626470.53	413913.09	32.137627	-104.058289	0.00	0.00
706.82	626493.66	413907.02	32.137610	-104.058214	0.00	0.00
729.95	626516.79	413900.94	32.137593	-104.058140	0.00	0.00
753.08	626539.92	413894.86	32.137576	-104.058065	0.00	0.00
776.21	626563.05	413888.78	32.137560	-104.057990	0.00	0.00
799.34	626586.18	413882.70	32.137543	-104.057916	0.00	0.00

822.47	626609.31	413876.63	32.137526	-104.057841	0.00	0.00
845.60	626632.44	413870.55	32.137509	-104.057766	0.00	0.00
868.73	626655.57	413864.47	32.137492	-104.057692	0.00	0.00
891.86	626678.70	413858.39	32.137475	-104.057617	0.00	0.00
914.99	626701.83	413852.32	32.137458	-104.057542	0.00	0.00
938.12	626724.96	413846.24	32.137441	-104.057467	0.00	0.00
961.25	626748.09	413840.16	32.137425	-104.057393	0.00	0.00
984.38	626771.22	413834.08	32.137408	-104.057318	0.00	0.00
1007.51	626794.35	413828.00	32.137391	-104.057243	0.00	0.00
1030.64	626817.48	413821.93	32.137374	-104.057169	0.00	0.00
1053.77	626840.61	413815.85	32.137357	-104.057094	0.00	0.00
1076.90	626863.74	413809.77	32.137340	-104.057019	0.00	0.00
1100.03	626886.87	413803.69	32.137323	-104.056945	0.00	0.00
1123.16	626910.00	413797.61	32.137306	-104.056870	0.00	0.00
1146.30	626933.14	413791.54	32.137290	-104.056795	0.00	0.00
1169.43	626956.27	413785.46	32.137273	-104.056721	0.00	0.00
1192.56	626979.40	413779.38	32.137256	-104.056646	0.00	0.00
1215.69	627002.53	413773.30	32.137239	-104.056571	0.00	0.00
1238.82	627025.66	413767.23	32.137222	-104.056497	0.00	0.00
1261.95	627048.79	413761.15	32.137205	-104.056422	0.00	0.00
1285.08	627071.92	413755.07	32.137188	-104.056347	0.00	0.00
1308.21	627095.05	413748.99	32.137172	-104.056273	0.00	0.00
1332.00	627118.84	413742.74	32.137154	-104.056196	0.00	0.00
1342.75	627129.59	413737.95	32.137141	-104.056161	10.00	3.38
1353.78	627140.62	413728.68	32.137115	-104.056126	10.00	5.75
1364.32	627151.16	413715.17	32.137078	-104.056092	10.00	7.26
1374.31	627161.15	413697.53	32.137030	-104.056059	10.00	8.14
1383.67	627170.51	413675.89	32.136970	-104.056029	10.00	8.67
1392.32	627179.16	413650.41	32.136900	-104.056002	10.00	8.99
1400.21	627187.05	413621.29	32.136820	-104.055976	10.00	9.21
1407.26	627194.10	413588.75	32.136730	-104.055954	10.00	9.36
1413.43	627200.27	413553.03	32.136632	-104.055934	10.00	9.46
1418.67	627205.51	413514.42	32.136526	-104.055918	10.00	9.53
1422.94	627209.78	413473.19	32.136413	-104.055904	10.00	9.59
1426.21	627213.05	413429.68	32.136293	-104.055894	10.00	9.63
1428.44	627215.28	413384.20	32.136168	-104.055887	10.00	9.66
1429.64	627216.48	413337.10	32.136038	-104.055884	10.00	9.68
1429.83	627216.67	413316.28	32.135981	-104.055883	10.00	9.70
1430.16	627217.00	413239.99	32.135771	-104.055883	5.00	5.00
1430.60	627217.44	413141.14	32.135500	-104.055882	5.00	5.00
1431.04	627217.88	413041.37	32.135225	-104.055882	5.00	5.00
1431.13	627217.97	413019.70	32.135166	-104.055882	5.00	5.00
1431.48	627218.32	412941.37	32.134951	-104.055881	0.00	0.00
1431.92	627218.76	412841.37	32.134676	-104.055880	0.00	0.00

1432.37	627219.21	412741.37	32.134401	-104.055880	0.00	0.00
1432.81	627219.65	412641.37	32.134126	-104.055879	0.00	0.00
1433.25	627220.09	412541.37	32.133851	-104.055879	0.00	0.00
1433.69	627220.53	412441.37	32.133576	-104.055878	0.00	0.00
1434.14	627220.98	412341.38	32.133301	-104.055877	0.00	0.00
1434.58	627221.42	412241.38	32.133026	-104.055877	0.00	0.00
1435.02	627221.86	412141.38	32.132751	-104.055876	0.00	0.00
1435.47	627222.31	412041.38	32.132477	-104.055876	0.00	0.00
1435.91	627222.75	411941.38	32.132202	-104.055875	0.00	0.00
1436.35	627223.19	411841.38	32.131927	-104.055875	0.00	0.00
1436.80	627223.64	411741.38	32.131652	-104.055874	0.00	0.00
1437.24	627224.08	411641.38	32.131377	-104.055873	0.00	0.00
1437.68	627224.52	411541.38	32.131102	-104.055873	0.00	0.00
1438.12	627224.96	411441.38	32.130827	-104.055872	0.00	0.00
1438.57	627225.41	411341.39	32.130552	-104.055872	0.00	0.00
1439.01	627225.85	411241.39	32.130277	-104.055871	0.00	0.00
1439.45	627226.29	411141.39	32.130003	-104.055870	0.00	0.00
1439.90	627226.74	411041.39	32.129728	-104.055870	0.00	0.00
1440.34	627227.18	410941.39	32.129453	-104.055869	0.00	0.00
1440.78	627227.62	410841.39	32.129178	-104.055869	0.00	0.00
1441.23	627228.07	410741.39	32.128903	-104.055868	0.00	0.00
1441.67	627228.51	410641.39	32.128628	-104.055867	0.00	0.00
1442.11	627228.95	410541.39	32.128353	-104.055867	0.00	0.00
1442.56	627229.40	410441.39	32.128078	-104.055866	0.00	0.00
1443.00	627229.84	410341.39	32.127803	-104.055866	0.00	0.00
1443.44	627230.28	410241.40	32.127528	-104.055865	0.00	0.00
1443.88	627230.72	410141.40	32.127254	-104.055864	0.00	0.00
1444.33	627231.17	410041.40	32.126979	-104.055864	0.00	0.00
1444.77	627231.61	409941.40	32.126704	-104.055863	0.00	0.00
1445.21	627232.05	409841.40	32.126429	-104.055863	0.00	0.00
1445.66	627232.50	409741.40	32.126154	-104.055862	0.00	0.00
1446.10	627232.94	409641.40	32.125879	-104.055861	0.00	0.00
1446.54	627233.38	409541.40	32.125604	-104.055861	0.00	0.00
1446.99	627233.83	409441.40	32.125329	-104.055860	0.00	0.00
1447.43	627234.27	409341.40	32.125054	-104.055860	0.00	0.00
1447.82	627234.66	409252.90	32.124811	-104.055859	0.00	0.00
1447.98	627234.82	409241.41	32.124780	-104.055859	9.42	0.00
1451.20	627238.04	409191.52	32.124642	-104.055849	9.42	0.00
1458.50	627245.34	409142.08	32.124506	-104.055825	9.42	0.00
1469.84	627256.68	409093.39	32.124373	-104.055789	9.42	0.00
1485.14	627271.98	409045.81	32.124242	-104.055740	9.42	0.00
1504.29	627291.13	408999.63	32.124115	-104.055679	9.42	0.00
1527.17	627314.01	408955.19	32.123992	-104.055605	9.42	0.00
1553.63	627340.47	408912.78	32.123875	-104.055520	9.42	0.00

1583.47	627370.31	408872.68	32.123765	-104.055424	9.42	0.00
1616.51	627403.35	408835.17	32.123662	-104.055318	9.42	0.00
1652.52	627439.36	408800.50	32.123566	-104.055202	9.42	0.00
1691.25	627478.09	408768.90	32.123479	-104.055077	9.42	0.00
1732.44	627519.28	408740.59	32.123401	-104.054944	9.42	0.00
1775.83	627562.67	408715.76	32.123332	-104.054804	9.42	0.00
1821.10	627607.94	408694.57	32.123274	-104.054658	9.42	0.00
1867.96	627654.80	408677.17	32.123226	-104.054507	9.42	0.00
1916.09	627702.93	408663.68	32.123188	-104.054351	9.42	0.00
1965.17	627752.01	408654.19	32.123162	-104.054193	9.42	0.00
2014.86	627801.70	408648.76	32.123146	-104.054032	9.42	0.00
2064.83	627851.67	408647.42	32.123142	-104.053871	9.42	0.00
2114.73	627901.57	408650.20	32.123150	-104.053710	9.42	0.00
2164.25	627951.09	408657.06	32.123168	-104.053550	9.42	0.00
2213.03	627999.87	408667.97	32.123198	-104.053392	9.42	0.00
2260.75	628047.59	408682.84	32.123238	-104.053238	9.42	0.00
2307.09	628093.93	408701.58	32.123290	-104.053088	9.42	0.00
2351.73	628138.57	408724.07	32.123351	-104.052944	9.42	0.00
2394.38	628181.22	408750.14	32.123422	-104.052806	9.42	0.00
2434.74	628221.58	408779.63	32.123503	-104.052675	9.42	0.00
2472.54	628259.38	408812.33	32.123593	-104.052553	9.42	0.00
2507.54	628294.38	408848.03	32.123691	-104.052439	9.42	0.00
2539.48	628326.32	408886.48	32.123796	-104.052336	9.42	0.00
2568.15	628354.99	408927.42	32.123908	-104.052243	9.42	0.00
2593.37	628380.21	408970.58	32.124027	-104.052161	9.42	0.00
2614.96	628401.80	409015.66	32.124151	-104.052091	9.42	0.00
2632.78	628419.62	409062.36	32.124279	-104.052033	9.42	0.00
2646.69	628433.53	409110.37	32.124411	-104.051988	9.42	0.00
2656.62	628443.46	409159.36	32.124545	-104.051955	9.42	0.00
2660.69	628447.53	409189.59	32.124628	-104.051942	9.42	0.00
2667.06	628453.90	409258.79	32.124819	-104.051920	2.80	0.00
2672.09	628458.93	409358.65	32.125093	-104.051903	2.80	0.00
2672.76	628459.60	409420.66	32.125264	-104.051901	2.80	0.00
2672.59	628459.43	409458.65	32.125368	-104.051901	0.00	0.00
2672.15	628458.99	409558.65	32.125643	-104.051901	0.00	0.00
2671.72	628458.56	409658.65	32.125918	-104.051902	0.00	0.00
2671.28	628458.12	409758.65	32.126193	-104.051903	0.00	0.00
2670.84	628457.68	409858.64	32.126468	-104.051903	0.00	0.00
2670.40	628457.24	409958.64	32.126742	-104.051904	0.00	0.00
2669.96	628456.80	410058.64	32.127017	-104.051904	0.00	0.00
2669.52	628456.36	410158.64	32.127292	-104.051905	0.00	0.00
2669.08	628455.92	410258.64	32.127567	-104.051905	0.00	0.00
2668.64	628455.48	410358.64	32.127842	-104.051906	0.00	0.00
2668.21	628455.05	410458.64	32.128117	-104.051907	0.00	0.00

2667.77	628454.61	410558.64	32.128392	-104.051907	0.00	0.00
2667.33	628454.17	410658.64	32.128667	-104.051908	0.00	0.00
2666.89	628453.73	410758.64	32.128942	-104.051908	0.00	0.00
2666.45	628453.29	410858.63	32.129217	-104.051909	0.00	0.00
2666.01	628452.85	410958.63	32.129491	-104.051910	0.00	0.00
2665.57	628452.41	411058.63	32.129766	-104.051910	0.00	0.00
2665.13	628451.97	411158.63	32.130041	-104.051911	0.00	0.00
2664.70	628451.54	411258.63	32.130316	-104.051911	0.00	0.00
2664.26	628451.10	411358.63	32.130591	-104.051912	0.00	0.00
2663.82	628450.66	411458.63	32.130866	-104.051912	0.00	0.00
2663.38	628450.22	411558.63	32.131141	-104.051913	0.00	0.00
2662.94	628449.78	411658.63	32.131416	-104.051914	0.00	0.00
2662.50	628449.34	411758.63	32.131691	-104.051914	0.00	0.00
2662.06	628448.90	411858.63	32.131965	-104.051915	0.00	0.00
2661.62	628448.46	411958.62	32.132240	-104.051915	0.00	0.00
2661.19	628448.03	412058.62	32.132515	-104.051916	0.00	0.00
2660.75	628447.59	412158.62	32.132790	-104.051916	0.00	0.00
2660.31	628447.15	412258.62	32.133065	-104.051917	0.00	0.00
2659.87	628446.71	412358.62	32.133340	-104.051918	0.00	0.00
2659.43	628446.27	412458.62	32.133615	-104.051918	0.00	0.00
2658.99	628445.83	412558.62	32.133890	-104.051919	0.00	0.00
2658.55	628445.39	412658.62	32.134165	-104.051919	0.00	0.00
2658.11	628444.95	412758.62	32.134439	-104.051920	0.00	0.00
2657.68	628444.52	412858.62	32.134714	-104.051920	0.00	0.00
2657.24	628444.08	412958.61	32.134989	-104.051921	0.00	0.00
2656.80	628443.64	413058.61	32.135264	-104.051922	0.00	0.00
2656.36	628443.20	413158.61	32.135539	-104.051922	0.00	0.00
2655.92	628442.76	413258.61	32.135814	-104.051923	0.00	0.00
2655.48	628442.32	413358.61	32.136089	-104.051923	0.00	0.00
2655.04	628441.88	413458.61	32.136364	-104.051924	0.00	0.00
2654.60	628441.44	413558.61	32.136639	-104.051924	0.00	0.00
2654.17	628441.01	413658.61	32.136913	-104.051925	0.00	0.00
2653.72	628440.56	413759.94	32.137192	-104.051926	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	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.45
0.00	1.80
0.00	4.06
0.00	7.20
0.00	11.24
0.00	16.17
0.00	21.48
0.00	21.98
0.00	28.16
0.00	34.34
0.00	40.52
0.00	46.70
0.00	52.88
0.00	59.05
0.00	65.23
0.00	71.41
0.00	77.59
0.00	83.77
0.00	89.95
0.00	96.13
0.00	102.31
0.00	108.48
0.00	114.66
0.00	120.84
0.00	127.02
0.00	133.20
0.00	139.38
0.00	145.56
0.00	151.74
0.00	157.91
0.00	164.09
0.00	170.27
0.00	176.45
0.00	182.63
0.00	188.81
0.00	194.99
0.00	201.16
0.00	207.34
0.00	213.52

0.00	219.70
0.00	225.88
0.00	232.06
0.00	238.24
0.00	244.42
0.00	250.59
0.00	256.77
0.00	262.95
0.00	269.13
0.00	275.31
0.00	281.49
0.00	287.67
0.00	293.85
0.00	300.02
0.00	306.20
0.00	312.38
0.00	318.56
0.00	324.74
0.00	330.92
0.00	337.10
0.00	343.28
0.00	349.45
0.00	355.81
37.45	360.65
28.36	369.97
20.09	383.52
14.36	401.20
10.60	422.89
8.13	448.40
6.47	477.56
5.30	510.13
4.48	545.87
3.87	584.51
3.42	625.75
3.08	669.28
2.83	714.77
2.65	761.87
2.54	782.69
0.00	858.99
0.00	957.84
0.00	1057.61
0.00	1079.28
0.00	1157.61
0.00	1257.61

0.00	1357.61
0.00	1457.61
0.00	1557.61
0.00	1657.61
0.00	1757.61
0.00	1857.61
0.00	1957.61
0.00	2057.61
0.00	2157.61
0.00	2257.61
0.00	2357.61
0.00	2457.61
0.00	2557.61
0.00	2657.61
0.00	2757.61
0.00	2857.61
0.00	2957.61
0.00	3057.61
0.00	3157.61
0.00	3257.61
0.00	3357.61
0.00	3457.61
0.00	3557.61
0.00	3657.61
0.00	3757.61
0.00	3857.61
0.00	3957.61
0.00	4057.61
0.00	4157.61
0.00	4257.61
0.00	4357.61
0.00	4457.61
0.00	4557.61
0.00	4657.61
0.00	4757.61
0.00	4846.11
-9.42	4857.61
-9.42	4907.50
-9.42	4956.98
-9.42	5005.71
-9.42	5053.37
-9.42	5099.62
-9.42	5144.16
-9.42	5186.69

-9.42	5226.92
-9.42	5264.57
-9.42	5299.40
-9.42	5331.17
-9.42	5359.66
-9.42	5384.68
-9.42	5406.07
-9.42	5423.67
-9.42	5437.37
-9.42	5447.08
-9.42	5452.72
-9.42	5454.28
-9.42	5451.72
-9.42	5445.07
-9.42	5434.38
-9.42	5419.71
-9.42	5401.17
-9.42	5378.88
-9.42	5353.00
-9.42	5323.68
-9.42	5291.15
-9.42	5255.60
-9.42	5217.30
-9.42	5176.48
-9.42	5133.43
-9.42	5088.44
-9.42	5041.82
-9.42	4993.87
-9.42	4944.92
-9.42	4914.71
-2.80	4845.54
-2.80	4745.70
-2.80	4683.70
0.00	4645.71
0.00	4545.71
0.00	4445.71
0.00	4345.71
0.00	4245.71
0.00	4145.71
0.00	4045.71
0.00	3945.71
0.00	3845.71
0.00	3745.71
0.00	3645.71

0.00	3545.71
0.00	3445.71
0.00	3345.71
0.00	3245.71
0.00	3145.71
0.00	3045.71
0.00	2945.71
0.00	2845.71
0.00	2745.71
0.00	2645.71
0.00	2545.71
0.00	2445.71
0.00	2345.71
0.00	2245.71
0.00	2145.71
0.00	2045.71
0.00	1945.71
0.00	1845.71
0.00	1745.71
0.00	1645.71
0.00	1545.71
0.00	1445.71
0.00	1345.71
0.00	1245.71
0.00	1145.71
0.00	1045.71
0.00	945.71
0.00	845.71
0.00	745.71
0.00	645.71
0.00	545.71
0.00	445.71
0.00	344.38

Released to Imaging: 12/5/2025 10:06:27 AM
Received by OCD: 11/21/2025 2:42:16 PM

COTERRA

Coterra Energy
Site: Riverbend 14 Federal Com
Well: Riverbend 14 Federal Com 3H
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	414092.74	625786.84	32.1381256	-104.0604963	

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	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	Start DLS 2.00 TFO 104.72
2281.84	13.84	104.72	2485.13	-21.13	80.40	2.00	104.72	21.48	
7732.86	13.84	104.72	7739.13	-350.00	1332.00	0.00	0.00	355.81	Start DLS 10.00 TFO 79.06
8249.67	75.00	179.75	8249.95	-776.46	1429.83	10.00	79.06	782.69	Start DLS 5.00 TFO -0.01
8289.67	90.00	179.75	8289.00	-1073.04	1431.13	5.00	-0.01	1079.27	Start 3766.84 hold at 8921.67 MD
8351.51	90.00	179.75	8289.00	-4839.84	1447.82	0.00	0.00	4846.11	Start DLS 9.42 TFO -90.00
8451.51	90.00	6.23	8289.00	-4903.15	2660.69	9.42	-90.00	4914.71	Start DLS 2.80 TFO -90.00
12102.01	90.00	359.75	8289.00	-4672.08	2672.76	2.80	-90.00	4683.70	Start 4339.32 hold at 14762.01 MD
19101.33	90.00	359.75	8289.00	-332.80	2653.72	0.00	0.00	344.38	TD at 19101.33

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1091.00	1091.00	Rustler
1570.00	1570.00	Top Salt
2362.00	2365.67	Base Salt/Lamar
2550.00	2558.67	Top Delaware Sands/Bell Canyon
3425.00	3459.79	Cherry Canyon
4727.00	4800.71	Brushy Canyon
5670.00	5771.89	Lower Brushy Canyon
6334.00	6455.73	Bone Spring Lime
7260.00	7409.41	1st Bone Spring Sand
7944.00	8121.00	2nd Bone Spring Sand
8289.00	8921.67	2nd Bone Spring Sand LZ

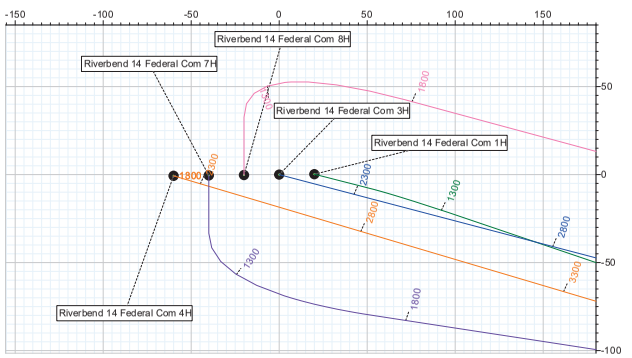
WELLBORE TARGET DETAILS

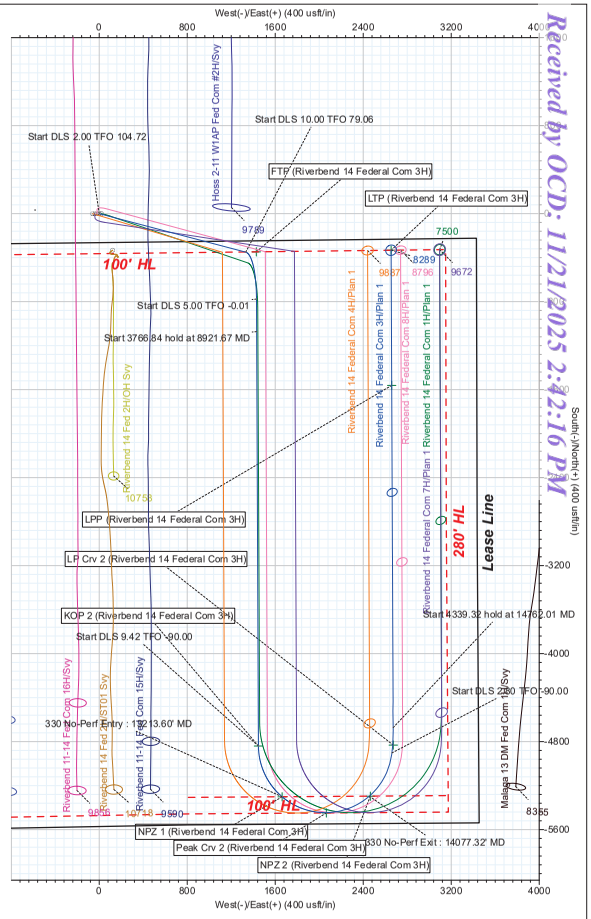
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Riverbend 14 Federal Com 3H)	0.00	-347.39	1428.02	413745.35	627214.86	32.1371607	-104.0558856
KOP 2 (Riverbend 14 Federal Com 3H)	0.00	-4839.84	1447.82	409252.90	627234.66	32.1248112	-104.0558590
LP Crv 2 (Riverbend 14 Federal Com 3H)	0.00	-4831.26	2673.53	409261.48	628460.37	32.1248260	-104.0518995
LPP (Riverbend 14 Federal Com 3H)	0.00	-1561.59	2659.13	412531.15	628445.97	32.1338142	-104.0519185
LTP (Riverbend 14 Federal Com 3H)	0.00	-332.80	2653.72	413759.94	628440.56	32.1371920	-104.0519256
NPZ 1 (Riverbend 14 Federal Com 3H)	0.00	-5301.73	1662.83	408791.01	627449.67	32.1235399	-104.0551683
NPZ 2 (Riverbend 14 Federal Com 3H)	0.00	-5296.12	2465.00	408796.62	628251.84	32.1235496	-104.0525771
Peak Crv 2 (Riverbend 14 Federal Com 3H)	0.00	-5448.40	2064.96	408644.34	627851.80	32.1231339	-104.0538706

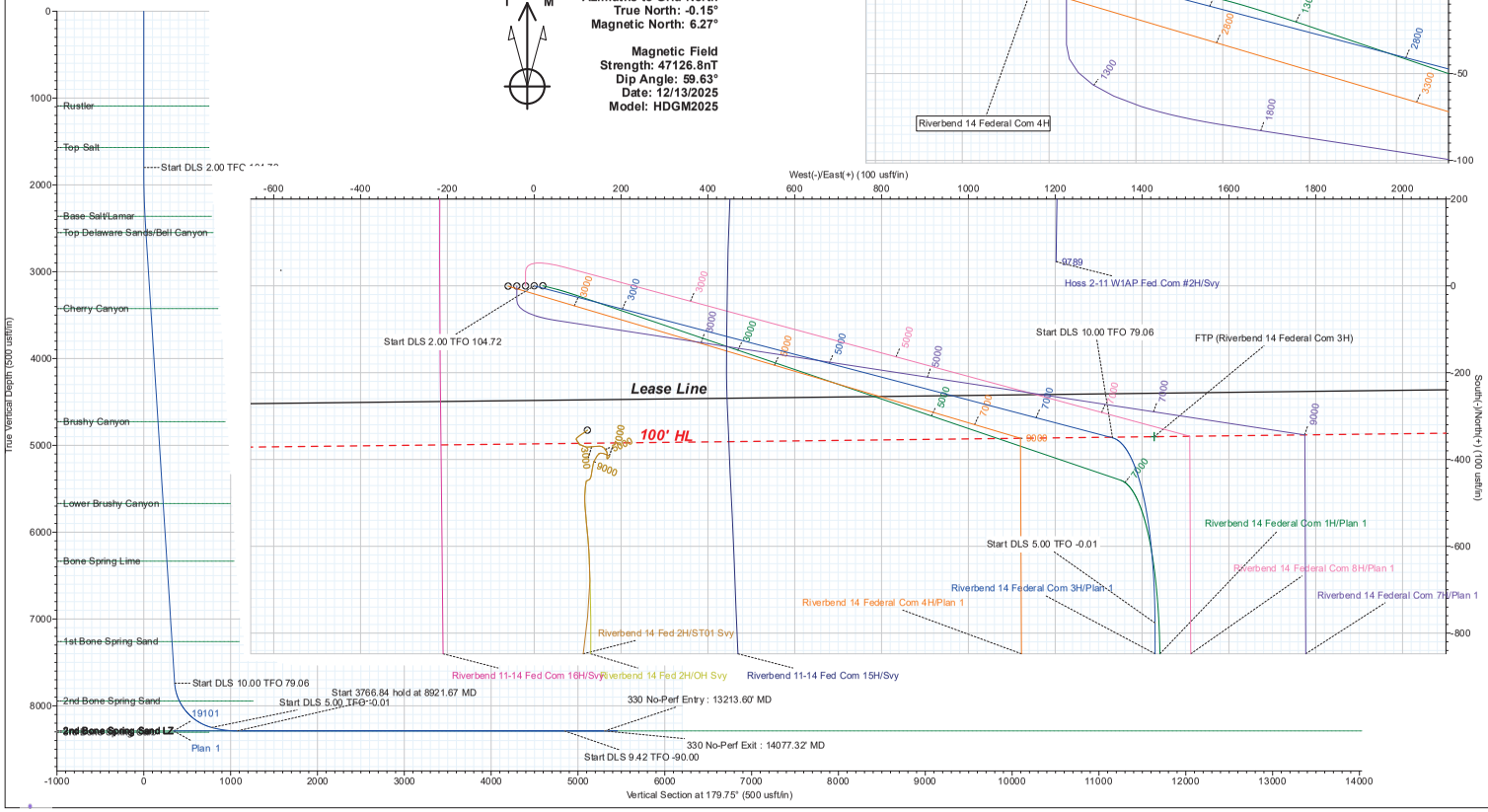


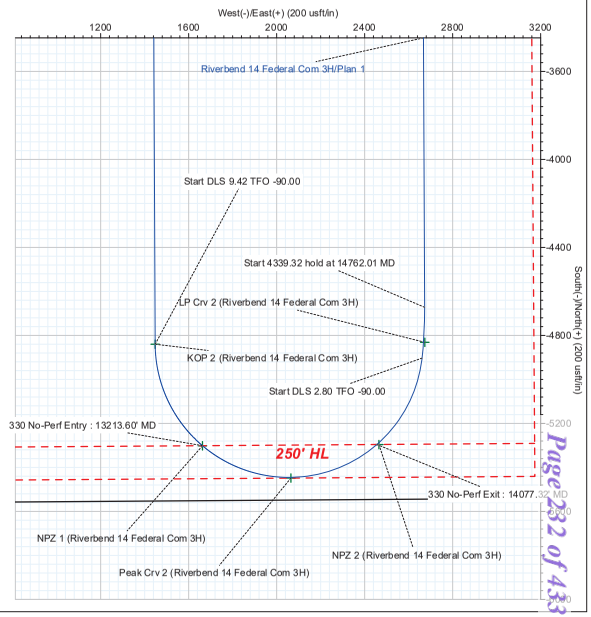
Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.27°

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









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Coterra Energy

Eddy County, NM (NAD 83)
Riverbend 14 Federal Com
Riverbend 14 Federal Com 3H

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 3H
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 3H	**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 3H						
Well Position	**+N/-S**	0.00 usft	**Northing:**	414,092.74	usft	**Latitude:**	32.1381257
	+E/-W	0.00 usft	**Easting:**	625,786.84	usft	**Longitude:**	-104.0604962
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		usft	**Ground Level:**	2,935.00 usft
Grid Convergence:		0.15 °					

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

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,100.64	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 1H -	2,935.00	2,958.00	414,092.97	625,806.83	32.1381262	-104.0604317	0.00	0.00
Riverbend 14 Federal Com 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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Riverbend 11-14						
Riverbend 11-14 Fed Com 15H - OH - Svy	12,688.23	18,918.64	1,628.50	1,501.22	12.80	CC
Riverbend 11-14 Fed Com 15H - OH - Svy	12,700.00	18,927.96	1,628.57	1,501.15	12.78	ES
Riverbend 11-14 Fed Com 15H - OH - Svy	12,850.00	19,078.25	1,641.74	1,512.00	12.65	SF
Riverbend 11-14 Fed Com 16H - OH - Svy	11,823.55	18,261.55	2,262.81	2,147.65	19.65	CC
Riverbend 11-14 Fed Com 16H - OH - Svy	12,000.00	18,404.00	2,263.96	2,146.71	19.31	ES
Riverbend 11-14 Fed Com 16H - OH - Svy	12,950.00	19,433.67	2,319.07	2,187.84	17.67	SF
Riverbend 11-14 Fed Com 17H - OH - Svy	12,702.52	19,095.20	2,624.53	2,496.98	20.58	CC, ES
Riverbend 11-14 Fed Com 17H - OH - Svy	12,900.00	19,232.89	2,655.00	2,525.14	20.45	SF
Riverbend 11-14 Fed Com 7H - OH - Svy	12,650.04	19,294.08	3,321.55	3,195.95	26.44	CC
Riverbend 11-14 Fed Com 7H - OH - Svy	12,700.00	19,340.00	3,321.79	3,195.55	26.31	ES
Riverbend 11-14 Fed Com 7H - OH - Svy	12,850.00	19,434.00	3,342.41	3,214.50	26.13	SF
Riverbend 14 Fed 2H - OH - OH Svy	0.00	0.00	354.31			
Riverbend 14 Fed 2H - OH - OH Svy	3,129.33	3,107.25	324.34	302.59	14.91	CC
Riverbend 14 Fed 2H - OH - OH Svy	3,200.00	3,176.35	324.70	302.44	14.59	ES
Riverbend 14 Fed 2H - ST01 - ST01 Svy	0.00	0.00	354.31			
Riverbend 14 Fed 2H - ST01 - ST01 Svy	3,129.33	3,107.25	324.34	302.59	14.91	CC
Riverbend 14 Fed 2H - ST01 - ST01 Svy	3,200.00	3,176.35	324.70	302.44	14.59	ES
Riverbend 12-13 Offsets						
Malaga 13 DM Fed Com 1H - OH - Svy	14,450.00	13,159.01	1,154.95	1,018.70	8.48	SF
Malaga 13 DM Fed Com 1H - OH - Svy	14,600.00	13,006.20	1,144.66	1,011.19	8.58	ES
Malaga 13 DM Fed Com 1H - OH - Svy	14,612.47	12,994.81	1,144.62	1,011.37	8.59	CC
Riverbend 14 Federal Com						
Hoss 2-11 W1AP Fed Com #2H - OH - Svy	8,515.55	19,907.00	1,752.03	1,653.96	17.87	CC, ES
Hoss 2-11 W1AP Fed Com #2H - OH - Svy	19,101.33	19,907.00	2,123.22	1,921.13	10.51	SF
Riverbend 14 Federal Com 1H - OH - Plan 1	500.00	500.00	19.99	16.57	5.85	CC, ES
Riverbend 14 Federal Com 1H - OH - Plan 1	7,157.72	7,119.48	246.07	192.81	4.62	SF
Riverbend 14 Federal Com 4H - OH - Plan 1	1,800.00	1,801.00	59.98	47.24	4.71	CC, ES
Riverbend 14 Federal Com 4H - OH - Plan 1	7,300.00	7,317.28	141.02	87.05	2.61	SF
Riverbend 14 Federal Com 7H - OH - Plan 1	416.33	417.33	39.99	37.17	14.16	CC
Riverbend 14 Federal Com 7H - OH - Plan 1	700.00	700.64	40.69	35.87	8.46	ES
Riverbend 14 Federal Com 7H - OH - Plan 1	8,000.00	7,988.75	281.80	221.25	4.65	SF
Riverbend 14 Federal Com 8H - OH - Plan 1	536.30	536.30	19.99	16.31	5.43	CC
Riverbend 14 Federal Com 8H - OH - Plan 1	600.00	599.97	20.05	15.91	4.85	ES
Riverbend 14 Federal Com 8H - OH - Plan 1	8,065.57	8,066.79	132.10	71.35	2.17	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

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)	Rule Assigned: Distance Between Ellipses (usft)	Rule Assigned: Minimum Separation (usft)	Rule Assigned: Separation Factor	Warning
0.00	0.00	27.98	27.98	0.00	0.04	1.98	4,645.53	160.34	4,648.30				
100.00	100.00	114.61	114.61	0.28	0.18	1.97	4,645.75	160.10	4,648.54	4,648.08	0.46	N/A	
200.00	200.00	201.31	201.31	0.63	0.32	1.97	4,646.22	159.57	4,649.06	4,648.11	0.95	4,868.491	
300.00	300.00	317.15	317.14	0.99	0.74	1.95	4,646.87	158.25	4,649.58	4,647.86	1.73	2,690.801	
400.00	400.00	429.24	429.21	1.35	1.14	1.92	4,647.04	156.08	4,649.66	4,647.17	2.49	1,869.547	
500.00	500.00	508.54	508.49	1.71	1.42	1.90	4,647.27	154.45	4,649.90	4,646.77	3.13	1,485.865	
600.00	600.00	581.90	581.84	2.07	1.68	1.89	4,647.94	153.11	4,650.74	4,646.98	3.75	1,239.941	
700.00	700.00	673.04	672.95	2.43	2.01	1.87	4,649.06	151.39	4,651.91	4,647.47	4.44	1,048.739	
800.00	800.00	802.48	802.36	2.79	2.46	1.84	4,650.71	149.66	4,653.22	4,647.97	5.25	886.439	

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 3H
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 3H	**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	900.00	919.55	919.42	3.14	2.86	1.86	4,650.95	151.16	4,653.43	4,647.43	6.00	775.495	
1,000.00	1,000.00	1,027.05	1,026.90	3.50	3.22	1.89	4,651.12	153.39	4,653.65	4,646.93	6.72	692.374	
1,100.00	1,100.00	1,132.46	1,132.28	3.86	3.58	1.92	4,651.09	155.65	4,653.69	4,646.25	7.44	625.546	
1,200.00	1,200.00	1,226.63	1,226.44	4.22	3.90	1.94	4,651.11	157.24	4,653.77	4,645.65	8.12	572.973	
1,300.00	1,300.00	1,333.68	1,333.47	4.58	4.27	1.96	4,651.09	159.15	4,653.81	4,644.96	8.85	525.753	
1,398.34	1,398.34	1,430.87	1,430.64	4.93	4.61	1.99	4,650.97	161.33	4,653.76	4,644.22	9.54	487.674	
1,400.00	1,400.00	1,432.31	1,432.08	4.94	4.62	1.99	4,650.96	161.36	4,653.76	4,644.21	9.55	487.114	
1,500.00	1,500.00	1,526.98	1,526.72	5.29	4.95	2.02	4,651.01	163.76	4,653.89	4,643.65	10.24	454.328	
1,600.00	1,600.00	1,641.63	1,641.36	5.65	5.35	2.03	4,650.87	165.21	4,653.81	4,642.81	11.00	422.966	
1,685.03	1,685.03	1,717.60	1,717.33	5.96	5.62	2.04	4,650.72	165.44	4,653.66	4,642.09	11.57	402.114	
1,700.00	1,700.00	1,728.23	1,727.96	6.01	5.65	2.04	4,650.72	165.46	4,653.67	4,642.00	11.66	398.982	
1,800.00	1,800.00	1,804.01	1,803.74	6.37	5.92	2.04	4,651.02	165.69	4,654.06	4,641.77	12.29	378.742	
1,900.00	1,899.98	1,903.34	1,903.07	6.72	6.27	-102.68	4,651.70	165.90	4,655.13	4,642.14	12.99	358.464	
2,000.00	1,999.84	2,105.50	2,105.16	7.06	6.98	-102.74	4,650.90	170.27	4,656.12	4,642.09	14.03	331.774	
2,100.00	2,099.45	2,303.16	2,302.74	7.40	7.67	-102.95	4,645.28	171.31	4,655.03	4,639.98	15.05	309.237	
2,200.00	2,198.70	2,348.00	2,347.54	7.74	7.82	-103.01	4,643.63	171.93	4,654.43	4,638.87	15.56	299.180	
2,205.53	2,204.18	2,373.66	2,373.19	7.76	7.91	-103.05	4,642.77	172.41	4,654.31	4,638.65	15.66	297.116	
2,300.00	2,297.47	2,416.19	2,415.69	8.09	8.06	-103.09	4,641.73	173.35	4,655.43	4,639.29	16.14	288.359	
2,400.00	2,395.62	2,442.00	2,441.49	8.44	8.15	-103.08	4,641.32	174.01	4,658.63	4,642.04	16.59	280.877	
2,491.84	2,485.13	2,494.00	2,493.47	8.76	8.34	-103.11	4,641.18	175.15	4,663.33	4,646.24	17.09	272.835	
2,500.00	2,493.06	2,494.00	2,493.47	8.79	8.34	-103.11	4,641.18	175.15	4,663.83	4,646.71	17.12	272.408	
2,600.00	2,590.16	2,581.02	2,580.47	9.14	8.64	-103.34	4,641.86	176.76	4,670.30	4,652.51	17.78	262.628	
2,700.00	2,687.25	2,667.67	2,667.10	9.50	8.95	-103.57	4,642.69	178.58	4,677.03	4,658.59	18.45	253.545	
2,800.00	2,784.35	2,736.00	2,735.41	9.86	9.19	-103.74	4,643.55	180.02	4,684.19	4,665.15	19.05	245.931	
2,900.00	2,881.45	2,792.02	2,791.40	10.23	9.39	-103.88	4,644.67	181.64	4,692.20	4,672.60	19.60	239.356	
3,000.00	2,978.55	2,845.22	2,844.52	10.60	9.58	-104.01	4,646.34	184.04	4,701.32	4,681.17	20.15	233.316	
3,100.00	3,075.65	2,925.00	2,924.06	10.96	9.86	-104.17	4,649.43	189.20	4,711.22	4,690.43	20.80	226.549	
3,200.00	3,172.74	3,009.33	3,008.05	11.34	10.16	-104.33	4,652.99	195.93	4,721.52	4,700.06	21.46	220.017	
3,300.00	3,269.84	3,091.30	3,089.60	11.71	10.45	-104.47	4,656.60	203.30	4,732.06	4,709.94	22.12	213.959	
3,400.00	3,366.94	3,174.35	3,172.12	12.08	10.75	-104.60	4,660.57	211.81	4,742.99	4,720.21	22.78	208.218	
3,500.00	3,464.04	3,321.28	3,317.97	12.46	11.27	-104.82	4,667.28	228.33	4,753.80	4,730.11	23.68	200.711	
3,600.00	3,561.14	3,432.66	3,428.44	12.83	11.67	-104.97	4,671.49	241.83	4,763.78	4,739.32	24.46	194.770	
3,700.00	3,658.24	3,533.73	3,528.83	13.21	12.03	-105.11	4,675.16	253.03	4,773.66	4,748.46	25.20	189.468	
3,800.00	3,755.33	3,626.37	3,620.92	13.59	12.36	-105.26	4,678.52	262.51	4,783.58	4,757.68	25.90	184.687	
3,900.00	3,852.43	3,724.30	3,718.03	13.97	12.72	-105.39	4,682.30	274.52	4,793.72	4,767.09	26.63	180.022	
4,000.00	3,949.53	3,830.95	3,823.60	14.35	13.10	-105.51	4,686.24	289.19	4,803.69	4,776.30	27.39	175.376	
4,100.00	4,046.63	3,962.15	3,953.48	14.73	13.57	-105.66	4,690.74	307.09	4,813.44	4,785.19	28.25	170.401	
4,200.00	4,143.73	4,070.27	4,060.72	15.11	13.96	-105.79	4,693.83	320.51	4,822.64	4,793.63	29.02	166.196	
4,300.00	4,240.82	4,170.08	4,159.88	15.50	14.32	-105.94	4,696.55	331.56	4,831.79	4,802.04	29.76	162.374	
4,400.00	4,337.92	4,271.02	4,260.26	15.88	14.69	-106.09	4,699.22	341.88	4,840.91	4,810.41	30.50	158.712	
4,500.00	4,435.02	4,366.50	4,355.24	16.27	15.03	-106.24	4,701.78	351.35	4,850.12	4,818.89	31.23	155.327	
4,600.00	4,532.12	4,461.81	4,450.05	16.65	15.38	-106.39	4,704.34	360.72	4,859.37	4,827.42	31.95	152.097	
4,700.00	4,629.22	4,548.57	4,536.34	17.04	15.69	-106.52	4,706.87	369.28	4,868.88	4,836.24	32.64	149.165	
4,800.00	4,726.31	4,648.78	4,636.03	17.42	16.05	-106.68	4,709.87	379.14	4,878.50	4,845.11	33.38	146.130	
4,900.00	4,823.41	14,271.00	9,670.92	17.81	50.53	176.58	-198.38	443.04	4,819.23	4,770.01	49.22	97.918	
5,000.00	4,920.51	14,271.00	9,670.92	18.20	50.53	176.58	-198.38	443.04	4,723.19	4,673.72	49.46	95.489	
5,100.00	5,017.61	14,271.00	9,670.92	18.58	50.53	176.58	-198.38	443.04	4,627.31	4,577.59	49.72	93.071	
5,200.00	5,114.71	14,271.00	9,670.92	18.97	50.53	176.58	-198.38	443.04	4,531.62	4,481.63	49.98	90.665	
5,300.00	5,211.80	14,271.00	9,670.92	19.36	50.53	176.58	-198.38	443.04	4,436.11	4,385.85	50.26	88.272	
5,400.00	5,308.90	14,271.00	9,670.92	19.75	50.53	176.58	-198.38	443.04	4,340.80	4,290.27	50.54	85.892	
5,500.00	5,406.00	14,271.00	9,670.92	20.14	50.53	176.58	-198.38	443.04	4,245.72	4,194.88	50.83	83.525	
5,600.00	5,503.10	14,271.00	9,670.92	20.53	50.53	176.58	-198.38	443.04	4,150.86	4,099.72	51.14	81.173	

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 3H
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 3H	**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
5,700.00	5,600.20	14,294.58	9,670.86	20.91	50.66	175.58	-221.96	443.30	4,056.13	4,004.51	51.62	78.581	
5,800.00	5,697.30	14,298.28	9,670.86	21.30	50.68	175.43	-225.66	443.36	3,961.74	3,909.77	51.97	76.230	
5,900.00	5,794.39	14,302.13	9,670.86	21.69	50.70	175.26	-229.51	443.43	3,867.63	3,815.29	52.34	73.895	
6,000.00	5,891.49	14,306.12	9,670.87	22.09	50.73	175.09	-233.50	443.51	3,773.81	3,721.09	52.72	71.579	
6,100.00	5,988.59	14,310.27	9,670.89	22.48	50.75	174.92	-237.64	443.60	3,680.31	3,627.19	53.12	69.280	
6,200.00	6,085.69	14,314.58	9,670.91	22.87	50.78	174.73	-241.96	443.70	3,587.16	3,533.62	53.54	67.001	
6,300.00	6,182.79	14,319.07	9,670.93	23.26	50.80	174.54	-246.44	443.81	3,494.37	3,440.40	53.97	64.741	
6,400.00	6,279.88	14,323.74	9,670.96	23.65	50.83	174.34	-251.12	443.94	3,401.98	3,347.55	54.43	62.502	
6,500.00	6,376.98	14,328.62	9,670.99	24.04	50.86	174.13	-255.99	444.09	3,310.03	3,255.12	54.91	60.284	
6,600.00	6,474.08	14,333.70	9,671.04	24.43	50.89	173.92	-261.07	444.25	3,218.54	3,163.13	55.41	58.088	
6,700.00	6,571.18	14,339.02	9,671.09	24.82	50.92	173.69	-266.38	444.42	3,127.56	3,071.63	55.93	55.915	
6,800.00	6,668.28	14,344.57	9,671.15	25.22	50.95	173.45	-271.93	444.62	3,037.14	2,980.65	56.49	53.767	
6,900.00	6,765.37	14,350.38	9,671.22	25.61	50.98	173.20	-277.73	444.85	2,947.32	2,890.25	57.07	51.643	
7,000.00	6,862.47	14,366.00	9,671.45	26.00	51.07	172.53	-293.34	445.52	2,858.17	2,800.42	57.75	49.493	
7,100.00	6,959.57	14,366.00	9,671.45	26.39	51.07	172.53	-293.34	445.52	2,769.71	2,711.35	58.36	47.461	
7,200.00	7,056.67	14,374.38	9,671.58	26.78	51.12	172.17	-301.71	445.90	2,682.05	2,623.00	59.06	45.414	
7,300.00	7,153.77	14,389.48	9,671.79	27.18	51.21	171.52	-316.79	446.58	2,595.24	2,535.40	59.84	43.368	
7,400.00	7,250.86	14,403.46	9,671.93	27.57	51.29	170.92	-330.76	447.18	2,509.37	2,448.71	60.66	41.366	
7,500.00	7,347.96	14,416.44	9,672.03	27.96	51.37	170.35	-343.73	447.73	2,424.53	2,363.01	61.52	39.408	
7,600.00	7,445.06	14,428.53	9,672.09	28.36	51.44	169.83	-355.80	448.22	2,340.85	2,278.42	62.43	37.496	
7,700.00	7,542.16	14,439.81	9,672.12	28.75	51.50	169.34	-367.08	448.67	2,258.46	2,195.07	63.39	35.631	
7,800.00	7,639.26	14,450.36	9,672.13	29.14	51.56	168.87	-377.62	449.08	2,177.51	2,113.11	64.40	33.814	
7,900.00	7,736.36	14,460.26	9,672.12	29.54	51.62	168.44	-387.51	449.46	2,098.17	2,032.70	65.47	32.049	
7,902.86	7,739.13	14,460.53	9,672.11	29.55	51.62	168.43	-387.79	449.47	2,095.92	2,030.43	65.50	31.999	
7,950.00	7,784.76	14,467.69	9,672.09	29.73	51.66	156.88	-394.94	449.73	2,059.18	1,993.14	66.04	31.180	
8,000.00	7,832.63	14,471.81	9,672.10	29.93	51.69	149.03	-399.05	449.90	2,020.92	1,954.31	66.60	30.342	
8,050.00	7,879.58	14,482.86	9,672.12	30.12	51.75	144.60	-410.10	450.34	1,983.65	1,916.43	67.22	29.511	
8,100.00	7,925.27	14,497.42	9,672.18	30.31	51.84	142.45	-424.64	450.95	1,947.65	1,879.80	67.85	28.704	
8,150.00	7,969.35	14,515.44	9,672.33	30.49	51.94	141.61	-442.65	451.75	1,913.20	1,844.69	68.51	27.925	
8,200.00	8,011.47	14,536.87	9,672.59	30.67	52.07	141.46	-464.05	452.76	1,880.51	1,811.33	69.18	27.182	
8,250.00	8,051.32	14,566.27	9,673.09	30.83	52.24	141.57	-493.41	454.24	1,849.80	1,779.90	69.89	26.466	
8,300.00	8,088.60	14,608.40	9,673.63	30.99	52.49	141.67	-535.48	456.32	1,821.06	1,750.39	70.67	25.768	
8,350.00	8,123.02	14,653.75	9,673.88	31.14	52.76	141.91	-580.78	458.45	1,794.35	1,722.90	71.45	25.113	
8,400.00	8,154.32	14,690.17	9,673.94	31.28	52.98	142.39	-617.17	460.02	1,769.92	1,697.77	72.15	24.531	
8,450.00	8,182.27	14,730.61	9,673.91	31.42	53.22	142.84	-657.58	461.59	1,747.94	1,675.09	72.85	23.994	
8,500.00	8,206.64	14,765.00	9,673.92	31.54	53.42	143.35	-691.94	462.84	1,728.60	1,655.12	73.48	23.526	
8,550.00	8,227.26	14,798.76	9,674.25	31.66	53.63	143.83	-725.68	464.13	1,712.17	1,638.12	74.06	23.120	
8,600.00	8,243.96	14,834.00	9,674.94	31.78	53.84	144.25	-760.88	465.56	1,698.76	1,624.16	74.60	22.771	
8,621.67	8,249.95	14,853.34	9,675.44	31.83	53.95	144.40	-780.20	466.37	1,693.89	1,619.04	74.85	22.631	
8,700.00	8,267.63	14,924.61	9,677.55	32.00	54.39	144.62	-851.37	469.48	1,679.51	1,603.79	75.71	22.182	
8,800.00	8,282.55	14,995.30	9,678.84	32.23	54.82	144.77	-922.02	470.24	1,668.43	1,591.76	76.67	21.762	
8,900.00	8,288.79	15,131.36	9,676.24	32.46	55.64	144.48	-1,057.90	463.88	1,664.89	1,586.75	78.14	21.308	
8,921.67	8,289.00	15,157.64	9,675.40	32.51	55.80	144.43	-1,084.15	462.94	1,664.67	1,586.25	78.42	21.228	
9,000.00	8,289.00	15,232.37	9,673.20	32.69	56.25	144.33	-1,158.82	461.02	1,664.17	1,584.90	79.27	20.993	
9,008.98	8,289.00	15,238.20	9,673.08	32.71	56.29	144.32	-1,164.65	460.89	1,664.16	1,584.82	79.35	20.973	
9,100.00	8,289.00	15,303.00	9,672.61	32.94	56.68	144.26	-1,229.43	459.35	1,665.05	1,584.89	80.16	20.771	
9,200.00	8,289.00	15,424.48	9,672.04	33.20	57.43	144.15	-1,350.87	456.48	1,666.39	1,584.93	81.46	20.455	
9,300.00	8,289.00	15,539.84	9,669.53	33.48	58.15	144.04	-1,466.19	454.66	1,665.75	1,583.01	82.74	20.131	
9,400.00	8,289.00	15,633.90	9,667.64	33.77	58.73	143.94	-1,560.21	453.02	1,665.41	1,581.54	83.87	19.857	
9,500.00	8,289.00	15,735.97	9,666.40	34.07	59.38	143.88	-1,662.27	452.32	1,665.09	1,580.02	85.06	19.575	
9,560.99	8,289.00	15,790.40	9,665.74	34.26	59.72	143.86	-1,716.70	451.98	1,664.88	1,579.15	85.73	19.420	
9,600.00	8,289.00	15,818.15	9,665.47	34.38	59.89	143.84	-1,744.44	451.58	1,665.01	1,578.91	86.11	19.337	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.00	8,289.00	15,928.81	9,664.77	34.70	60.59	143.74	-1,855.08	449.08	1,666.17	1,578.76	87.41	19.062	
9,800.00	8,289.00	16,036.91	9,663.49	35.04	61.28	143.69	-1,963.16	448.89	1,665.56	1,576.87	88.68	18.781	
9,855.95	8,289.00	16,085.43	9,663.01	35.24	61.59	143.67	-2,011.68	448.66	1,665.42	1,576.11	89.31	18.648	
9,900.00	8,289.00	16,122.60	9,662.62	35.39	61.83	143.65	-2,048.85	448.17	1,665.51	1,575.71	89.79	18.548	
10,000.00	8,289.00	16,190.76	9,662.05	35.75	62.26	143.57	-2,116.98	446.35	1,666.74	1,575.97	90.77	18.363	
10,100.00	8,289.00	16,373.09	9,660.78	36.12	63.43	143.44	-2,299.18	443.25	1,668.16	1,575.43	92.72	17.991	
10,200.00	8,289.00	16,462.34	9,659.45	36.51	64.02	143.46	-2,388.39	445.32	1,665.85	1,571.97	93.88	17.744	
10,300.00	8,289.00	16,551.45	9,658.27	36.90	64.60	143.46	-2,477.49	446.47	1,664.26	1,569.21	95.05	17.509	
10,400.00	8,289.00	16,652.85	9,656.62	37.31	65.26	143.42	-2,578.87	446.76	1,663.06	1,566.71	96.34	17.262	
10,500.00	8,289.00	16,741.95	9,655.80	37.72	65.85	143.43	-2,667.95	448.34	1,661.58	1,564.05	97.53	17.037	
10,531.82	8,289.00	16,761.56	9,655.71	37.86	65.98	143.43	-2,687.56	448.43	1,661.46	1,563.63	97.83	16.983	
10,600.00	8,289.00	16,805.00	9,655.59	38.15	66.26	143.41	-2,731.00	447.86	1,662.00	1,563.50	98.50	16.874	
10,700.00	8,289.00	16,982.45	9,653.42	38.58	67.44	143.43	-2,908.37	451.18	1,659.40	1,558.96	100.44	16.522	
10,800.00	8,289.00	17,074.84	9,652.23	39.03	68.05	143.49	-3,000.69	454.60	1,656.43	1,554.76	101.67	16.293	
10,900.00	8,289.00	17,180.39	9,650.44	39.48	68.76	143.53	-3,106.18	457.66	1,653.61	1,550.59	103.01	16.052	
11,000.00	8,289.00	17,285.06	9,648.13	39.94	69.46	143.55	-3,210.77	460.75	1,650.33	1,545.97	104.37	15.813	
11,100.00	8,289.00	17,369.00	9,646.87	40.41	70.03	143.59	-3,294.66	463.36	1,647.54	1,541.98	105.56	15.608	
11,200.00	8,289.00	17,481.32	9,645.30	40.89	70.79	143.64	-3,406.92	466.81	1,644.86	1,537.88	106.98	15.375	
11,300.00	8,289.00	17,578.63	9,643.56	41.38	71.45	143.69	-3,504.15	470.37	1,641.52	1,533.23	108.29	15.158	
11,400.00	8,289.00	17,651.00	9,642.88	41.88	71.94	143.72	-3,576.49	472.03	1,639.59	1,530.19	109.40	14.986	
11,500.00	8,289.00	17,743.33	9,642.19	42.38	72.56	143.71	-3,668.82	472.73	1,638.78	1,528.09	110.70	14.804	
11,600.00	8,289.00	17,854.11	9,640.52	42.89	73.31	143.68	-3,779.58	473.23	1,637.56	1,525.39	112.17	14.599	
11,700.00	8,289.00	17,948.19	9,639.04	43.41	73.95	143.64	-3,873.65	473.58	1,636.33	1,522.84	113.50	14.418	
11,800.00	8,289.00	18,052.61	9,637.16	43.93	74.67	143.60	-3,978.06	473.70	1,635.07	1,520.15	114.93	14.227	
11,900.00	8,289.00	18,153.17	9,635.06	44.46	75.35	143.54	-4,078.59	473.67	1,633.67	1,517.34	116.33	14.044	
12,000.00	8,289.00	18,255.65	9,632.80	45.00	76.06	143.47	-4,181.04	473.51	1,632.25	1,514.50	117.76	13.861	
12,100.00	8,289.00	18,355.70	9,629.41	45.55	76.74	143.35	-4,281.03	472.21	1,630.58	1,511.40	119.18	13.682	
12,200.00	8,289.00	18,446.11	9,627.61	46.10	77.36	143.30	-4,371.42	472.15	1,629.28	1,508.78	120.50	13.521	
12,300.00	8,289.00	18,532.14	9,625.49	46.65	77.96	143.20	-4,457.41	470.52	1,628.71	1,506.91	121.80	13.372	
12,310.31	8,289.00	18,540.71	9,625.34	46.71	78.02	143.19	-4,465.97	470.38	1,628.70	1,506.77	121.93	13.358	
12,400.00	8,289.00	18,623.86	9,625.05	47.21	78.59	143.16	-4,549.12	469.81	1,629.04	1,505.91	123.13	13.230	
12,500.00	8,289.00	18,731.54	9,625.11	47.78	79.33	143.16	-4,656.80	470.21	1,629.12	1,504.51	124.62	13.073	
12,600.00	8,289.00	18,839.06	9,624.27	48.35	80.08	143.12	-4,764.31	469.97	1,628.91	1,502.80	126.11	12.917	
12,688.23	8,289.00	18,918.64	9,623.80	48.86	80.63	143.11	-4,843.89	470.33	1,628.50	1,501.22	127.28	12.795	CC
12,688.51	8,289.00	18,918.86	9,623.79	48.86	80.63	143.11	-4,844.11	470.33	1,628.50	1,501.22	127.28	12.795	
12,700.00	8,289.00	18,927.96	9,623.75	48.93	80.69	143.11	-4,853.21	470.30	1,628.57	1,501.15	127.42	12.781	ES
12,750.00	8,289.00	18,968.22	9,623.56	49.23	80.97	143.18	-4,893.47	469.91	1,630.61	1,502.55	128.06	12.733	
12,800.00	8,289.00	19,029.80	9,622.94	49.53	81.40	143.22	-4,955.04	468.99	1,635.06	1,506.12	128.95	12.680	
12,850.00	8,289.00	19,078.25	9,622.08	49.84	81.74	143.39	-5,003.47	468.22	1,641.74	1,512.00	129.74	12.654	SF
12,900.00	8,289.00	19,113.09	9,621.82	50.15	81.98	143.80	-5,038.31	467.80	1,651.18	1,520.77	130.41	12.662	
12,950.00	8,289.00	19,155.00	9,622.11	50.47	82.27	144.29	-5,080.22	467.50	1,663.49	1,532.32	131.17	12.682	
13,000.00	8,289.00	19,198.10	9,622.55	50.79	82.57	144.90	-5,123.31	467.27	1,678.35	1,546.39	131.96	12.719	
13,050.00	8,289.00	19,252.47	9,622.57	51.10	82.95	145.44	-5,177.69	466.88	1,695.38	1,562.49	132.89	12.758	
13,100.00	8,289.00	19,284.01	9,622.35	51.40	83.17	146.50	-5,209.22	466.35	1,714.87	1,581.28	133.59	12.837	
13,150.00	8,289.00	19,307.00	9,622.17	51.70	83.33	147.97	-5,232.20	465.92	1,736.88	1,602.68	134.20	12.942	
13,200.00	8,289.00	19,307.00	9,622.17	51.99	83.33	150.29	-5,232.20	465.92	1,761.78	1,627.25	134.53	13.096	
13,250.00	8,289.00	19,307.00	9,622.17	52.26	83.33	153.04	-5,232.20	465.92	1,789.44	1,654.61	134.82	13.273	
13,300.00	8,289.00	19,307.00	9,622.17	52.52	83.33	156.25	-5,232.20	465.92	1,819.54	1,684.45	135.09	13.469	
13,350.00	8,289.00	19,307.00	9,622.17	52.77	83.33	159.94	-5,232.20	465.92	1,851.77	1,716.43	135.34	13.682	
13,400.00	8,289.00	19,307.00	9,622.17	53.00	83.33	164.11	-5,232.20	465.92	1,885.82	1,750.23	135.59	13.909	
13,450.00	8,289.00	19,307.00	9,622.17	53.20	83.33	168.73	-5,232.20	465.92	1,921.35	1,785.53	135.82	14.146	
13,500.00	8,289.00	19,307.00	9,622.17	53.39	83.33	173.77	-5,232.20	465.92	1,958.06	1,822.00	136.06	14.391	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,550.00	8,289.00	19,307.00	9,622.17	53.55	83.33	179.12	-5,232.20	465.92	1,995.64	1,859.33	136.31	14.641	
13,600.00	8,289.00	19,307.00	9,622.17	53.69	83.33	-175.32	-5,232.20	465.92	2,033.79	1,897.24	136.55	14.894	
13,650.00	8,289.00	19,307.00	9,622.17	53.80	83.33	-169.71	-5,232.20	465.92	2,072.24	1,935.43	136.81	15.147	
13,700.00	8,289.00	19,307.00	9,622.17	53.89	83.33	-164.19	-5,232.20	465.92	2,110.71	1,973.64	137.06	15.399	
13,750.00	8,289.00	19,307.00	9,622.17	53.96	83.33	-158.89	-5,232.20	465.92	2,148.94	2,011.62	137.32	15.649	
13,800.00	8,289.00	19,307.00	9,622.17	54.00	83.33	-153.91	-5,232.20	465.92	2,186.71	2,049.13	137.59	15.893	
13,850.00	8,289.00	19,307.00	9,622.17	54.02	83.33	-149.33	-5,232.20	465.92	2,223.79	2,085.94	137.85	16.132	
13,900.00	8,289.00	19,307.00	9,622.17	54.01	83.33	-145.18	-5,232.20	465.92	2,259.96	2,121.85	138.11	16.364	
13,950.00	8,289.00	19,307.00	9,622.17	53.99	83.33	-141.47	-5,232.20	465.92	2,295.03	2,156.67	138.36	16.588	
14,000.00	8,289.00	19,307.00	9,622.17	53.94	83.33	-138.17	-5,232.20	465.92	2,328.82	2,190.22	138.60	16.803	
14,050.00	8,289.00	19,307.00	9,622.17	53.88	83.33	-135.26	-5,232.20	465.92	2,361.15	2,222.33	138.82	17.008	
14,100.00	8,289.00	19,307.00	9,622.17	53.80	83.33	-132.71	-5,232.20	465.92	2,391.88	2,252.85	139.04	17.203	
14,150.00	8,289.00	19,291.24	9,622.29	53.70	83.22	-130.30	-5,216.45	466.22	2,420.82	2,281.77	139.04	17.410	
14,200.00	8,289.00	19,259.86	9,622.53	53.59	83.00	-128.09	-5,185.08	466.79	2,447.38	2,308.52	138.86	17.624	
14,250.00	8,289.00	19,224.35	9,622.64	53.47	82.75	-126.21	-5,149.56	467.10	2,471.47	2,332.83	138.64	17.827	
14,300.00	8,289.00	19,171.21	9,622.32	53.33	82.38	-124.54	-5,096.43	467.42	2,492.58	2,354.37	138.21	18.034	
14,350.00	8,289.00	19,128.74	9,621.85	53.20	82.09	-123.27	-5,053.96	467.66	2,510.55	2,372.62	137.92	18.203	
14,400.00	8,289.00	19,090.17	9,621.94	53.05	81.82	-122.30	-5,015.39	468.06	2,525.45	2,387.76	137.69	18.342	
14,450.00	8,289.00	19,045.58	9,622.68	52.91	81.51	-121.57	-4,970.81	468.74	2,537.17	2,399.78	137.39	18.466	
14,500.00	8,289.00	18,986.36	9,623.45	52.76	81.10	-121.05	-4,911.61	469.64	2,545.38	2,408.43	136.94	18.587	
14,530.51	8,289.00	18,966.00	9,623.57	52.67	80.96	-120.86	-4,891.25	469.94	2,548.62	2,411.76	136.86	18.623	
14,600.00	8,289.00	18,913.15	9,623.82	52.46	80.59	-120.74	-4,838.40	470.34	2,553.85	2,417.27	136.59	18.698	
14,700.00	8,289.00	18,820.27	9,624.42	52.18	79.95	-120.63	-4,745.52	469.93	2,558.86	2,422.84	136.02	18.812	
14,762.01	8,289.00	18,749.68	9,625.02	52.01	79.46	-120.62	-4,674.94	470.19	2,559.49	2,423.95	135.55	18.883	
14,800.00	8,289.00	18,717.12	9,625.15	51.90	79.23	-120.63	-4,642.38	470.19	2,559.43	2,424.06	135.37	18.907	
14,900.00	8,289.00	18,600.21	9,625.01	51.64	78.43	-120.63	-4,525.47	469.85	2,559.28	2,424.70	134.58	19.017	
15,000.00	8,289.00	18,497.00	9,626.31	51.38	77.72	-120.67	-4,422.29	471.28	2,558.34	2,424.38	133.96	19.098	
15,072.21	8,289.00	18,446.23	9,627.61	51.20	77.37	-120.71	-4,371.54	472.15	2,557.97	2,424.20	133.78	19.121	
15,100.00	8,289.00	18,428.26	9,627.97	51.14	77.24	-120.72	-4,353.57	472.25	2,558.03	2,424.31	133.72	19.130	
15,200.00	8,289.00	18,322.49	9,630.47	50.90	76.51	-120.78	-4,247.84	472.57	2,558.61	2,425.52	133.10	19.224	
15,300.00	8,289.00	18,232.70	9,633.40	50.66	75.90	-120.85	-4,158.10	473.64	2,558.89	2,426.23	132.66	19.290	
15,400.00	8,289.00	18,135.43	9,635.43	50.44	75.23	-120.89	-4,060.85	473.67	2,559.55	2,427.41	132.14	19.369	
15,500.00	8,289.00	18,035.87	9,637.49	50.23	74.55	-120.94	-3,961.32	473.69	2,560.23	2,428.61	131.62	19.451	
15,600.00	8,289.00	17,933.00	9,639.27	50.02	73.85	-120.98	-3,858.46	473.54	2,560.87	2,429.79	131.08	19.537	
15,700.00	8,289.00	17,847.67	9,640.63	49.82	73.27	-121.00	-3,773.14	473.19	2,561.67	2,430.96	130.71	19.598	
15,800.00	8,289.00	17,730.58	9,642.33	49.64	72.47	-121.03	-3,656.07	472.69	2,562.40	2,432.34	130.05	19.703	
15,900.00	8,289.00	17,651.00	9,642.88	49.46	71.94	-121.04	-3,576.49	472.03	2,563.13	2,433.37	129.76	19.753	
16,000.00	8,289.00	17,591.42	9,643.38	49.29	71.53	-121.04	-3,516.93	470.77	2,565.08	2,435.44	129.63	19.787	
16,100.00	8,289.00	17,511.50	9,644.78	49.13	70.99	-121.04	-3,437.08	467.86	2,568.64	2,439.31	129.33	19.862	
16,200.00	8,289.00	17,387.56	9,646.67	48.98	70.15	-121.03	-3,313.21	463.89	2,571.80	2,443.14	128.66	19.989	
16,300.00	8,289.00	17,303.87	9,647.78	48.84	69.59	-121.03	-3,229.56	461.38	2,574.70	2,446.36	128.34	20.062	
16,400.00	8,289.00	17,194.93	9,650.10	48.71	68.86	-121.04	-3,120.71	458.01	2,578.08	2,450.26	127.82	20.169	
16,500.00	8,289.00	17,096.36	9,651.97	48.59	68.20	-121.05	-3,022.19	455.31	2,581.04	2,453.63	127.40	20.259	
16,600.00	8,289.00	17,010.82	9,653.04	48.48	67.63	-121.04	-2,936.72	452.29	2,584.34	2,457.24	127.09	20.334	
16,700.00	8,289.00	16,828.78	9,655.37	48.38	66.42	-121.04	-2,754.77	447.95	2,586.92	2,460.92	126.01	20.530	
16,761.46	8,289.00	16,756.35	9,655.73	48.32	65.94	-121.06	-2,682.35	448.42	2,586.41	2,460.73	125.68	20.580	
16,800.00	8,289.00	16,739.51	9,655.82	48.29	65.83	-121.06	-2,665.52	448.32	2,586.57	2,460.86	125.71	20.575	
16,900.00	8,289.00	16,639.75	9,656.82	48.21	65.18	-121.07	-2,565.78	446.67	2,588.12	2,462.79	125.33	20.650	
17,000.00	8,289.00	16,544.33	9,658.37	48.15	64.55	-121.10	-2,470.37	446.42	2,588.82	2,463.81	125.01	20.709	
17,100.00	8,289.00	16,466.87	9,659.39	48.09	64.05	-121.11	-2,392.92	445.40	2,590.26	2,465.43	124.83	20.750	
17,200.00	8,289.00	16,206.86	9,662.01	48.05	62.36	-121.18	-2,133.06	445.66	2,592.32	2,469.21	123.12	21.056	
17,300.00	8,289.00	16,147.00	9,662.36	48.01	61.98	-121.21	-2,073.24	447.70	2,589.14	2,465.96	123.18	21.019	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,400.00	8,289.00	16,096.13	9,662.90	47.99	61.66	-121.23	-2,022.38	448.54	2,587.62	2,464.33	123.29	20.988	
17,484.65	8,289.00	16,032.92	9,663.54	47.99	61.25	-121.25	-1,959.17	448.90	2,587.32	2,464.11	123.21	20.999	
17,500.00	8,289.00	16,019.43	9,663.68	47.99	61.17	-121.25	-1,945.68	448.93	2,587.33	2,464.15	123.18	21.005	
17,600.00	8,289.00	15,866.00	9,665.19	47.99	60.19	-121.31	-1,792.28	450.39	2,586.80	2,464.34	122.46	21.124	
17,700.00	8,289.00	15,795.47	9,665.68	48.01	59.75	-121.34	-1,721.77	451.92	2,585.06	2,462.64	122.42	21.116	
17,800.00	8,289.00	15,711.60	9,666.69	48.04	59.22	-121.37	-1,637.91	452.45	2,584.73	2,462.45	122.28	21.138	
17,900.00	8,289.00	15,592.60	9,668.38	48.08	58.48	-121.42	-1,518.93	453.67	2,584.24	2,462.36	121.88	21.203	
18,000.00	8,289.00	15,509.53	9,670.26	48.14	57.96	-121.48	-1,435.89	455.13	2,583.56	2,461.78	121.78	21.215	
18,100.00	8,289.00	15,360.28	9,672.63	48.21	57.04	-121.56	-1,286.69	457.96	2,582.45	2,461.26	121.19	21.310	
18,200.00	8,289.00	15,267.32	9,672.67	48.29	56.47	-121.59	-1,193.76	460.22	2,580.05	2,459.03	121.02	21.319	
18,300.00	8,289.00	15,194.98	9,674.23	48.39	56.02	-121.64	-1,121.46	461.86	2,578.81	2,457.78	121.03	21.308	
18,400.00	8,289.00	15,022.00	9,678.74	48.50	54.98	-121.82	-948.70	469.12	2,576.02	2,455.68	120.34	21.407	
18,500.00	8,289.00	14,976.71	9,678.72	48.63	54.70	-121.84	-903.44	470.56	2,573.18	2,452.61	120.57	21.342	
18,548.51	8,289.00	14,959.07	9,678.46	48.69	54.60	-121.84	-885.80	470.52	2,572.71	2,452.02	120.69	21.317	
18,600.00	8,289.00	14,928.00	9,677.66	48.76	54.41	-121.81	-854.75	469.64	2,572.93	2,452.22	120.71	21.315	
18,700.00	8,289.00	14,863.70	9,675.72	48.92	54.02	-121.75	-790.55	466.81	2,574.48	2,453.77	120.70	21.329	
18,800.00	8,289.00	14,778.67	9,674.01	49.08	53.51	-121.68	-705.60	463.35	2,576.51	2,455.95	120.56	21.371	
18,900.00	8,289.00	14,695.96	9,673.94	49.26	53.01	-121.65	-622.95	460.26	2,579.28	2,458.82	120.45	21.413	
19,000.00	8,289.00	14,599.65	9,673.54	49.46	52.44	-121.59	-526.74	455.90	2,582.54	2,462.28	120.27	21.474	
19,100.00	8,289.00	14,493.42	9,672.16	50.02	51.82	-121.51	-420.65	450.78	2,585.59	2,465.79	119.81	21.581	
19,101.33	8,289.00	14,492.05	9,672.15	50.05	51.81	-121.51	-419.28	450.72	2,585.63	2,465.83	119.80	21.583	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	29.61	29.61	0.00	0.05	1.73	4,645.13	140.36	4,647.25				
100.00	100.00	122.13	122.12	0.28	0.19	1.73	4,645.26	140.18	4,647.38	4,646.91	0.47	9,889.153	
200.00	200.00	229.82	229.82	0.63	0.42	1.72	4,645.55	139.69	4,647.65	4,646.59	1.06	4,402.507	
300.00	300.00	405.68	405.66	0.99	1.04	1.71	4,644.10	138.39	4,646.75	4,644.72	2.03	2,284.986	
400.00	400.00	506.26	506.23	1.35	1.39	1.71	4,642.43	138.30	4,645.08	4,642.34	2.74	1,693.128	
500.00	500.00	591.80	591.76	1.71	1.69	1.71	4,641.22	138.72	4,643.68	4,640.28	3.40	1,365.546	
600.00	600.00	719.88	719.82	2.07	2.14	1.73	4,639.06	139.72	4,642.00	4,637.79	4.21	1,102.672	
700.00	700.00	794.14	794.07	2.43	2.41	1.73	4,637.77	139.92	4,640.30	4,635.47	4.83	960.297	
800.00	800.00	858.64	858.56	2.79	2.64	1.73	4,637.17	139.66	4,639.35	4,633.93	5.42	856.066	
900.00	900.00	933.00	932.92	3.14	2.90	1.72	4,637.06	139.08	4,639.15	4,633.11	6.04	768.159	
900.93	900.93	933.00	932.92	3.15	2.90	1.72	4,637.06	139.08	4,639.15	4,633.10	6.04	767.738	
1,000.00	1,000.00	1,025.32	1,025.24	3.50	3.22	1.71	4,637.26	138.08	4,639.32	4,632.60	6.72	690.380	
1,100.00	1,100.00	1,153.64	1,153.54	3.86	3.67	1.69	4,637.06	136.53	4,639.12	4,631.59	7.53	615.895	
1,200.00	1,200.00	1,270.11	1,270.01	4.22	4.09	1.67	4,636.37	135.21	4,638.50	4,630.19	8.31	558.455	
1,300.00	1,300.00	1,385.01	1,384.89	4.58	4.50	1.66	4,635.26	134.02	4,637.50	4,628.43	9.07	511.031	
1,400.00	1,400.00	1,491.20	1,491.08	4.94	4.88	1.65	4,633.99	133.08	4,636.28	4,626.47	9.81	472.474	
1,500.00	1,500.00	1,550.86	1,550.73	5.29	5.09	1.64	4,633.47	132.66	4,635.41	4,625.03	10.38	446.533	
1,539.35	1,539.35	1,572.91	1,572.78	5.44	5.17	1.64	4,633.42	132.57	4,635.32	4,624.72	10.60	437.335	
1,600.00	1,600.00	1,594.00	1,593.87	5.65	5.24	1.64	4,633.46	132.51	4,635.51	4,624.62	10.89	425.678	
1,700.00	1,700.00	1,689.00	1,688.86	6.01	5.57	1.63	4,634.31	132.19	4,636.40	4,624.83	11.57	400.623	
1,800.00	1,800.00	1,750.69	1,750.54	6.37	5.78	1.63	4,635.32	131.72	4,637.91	4,625.76	12.14	381.968	
1,900.00	1,899.98	1,835.76	1,835.59	6.72	6.07	-103.08	4,637.00	130.49	4,640.23	4,627.45	12.78	362.988	
2,000.00	1,999.84	1,945.84	1,945.63	7.06	6.45	-103.11	4,639.32	128.99	4,643.51	4,630.00	13.50	343.899	
2,100.00	2,099.45	2,124.07	2,123.76	7.40	7.06	-103.18	4,641.03	134.18	4,646.55	4,632.10	14.45	321.529	
2,200.00	2,198.70	2,347.79	2,347.33	7.74	7.83	-103.39	4,637.09	140.79	4,647.03	4,631.47	15.56	298.634	
2,300.00	2,297.47	2,418.76	2,418.27	8.09	8.07	-103.48	4,635.49	142.07	4,648.47	4,632.32	16.16	287.725	
2,400.00	2,395.62	2,495.30	2,494.80	8.44	8.34	-103.59	4,634.22	142.53	4,651.33	4,634.56	16.77	277.300	
2,491.84	2,485.13	2,577.53	2,577.02	8.76	8.63	-103.74	4,633.10	142.65	4,655.03	4,637.64	17.39	267.745	
2,500.00	2,493.06	2,584.90	2,584.39	8.79	8.66	-103.76	4,633.01	142.67	4,655.40	4,637.96	17.44	266.925	
2,600.00	2,590.16	2,674.36	2,673.84	9.14	8.97	-104.01	4,631.93	142.97	4,660.07	4,641.96	18.11	257.313	
2,700.00	2,687.25	2,768.52	2,768.00	9.50	9.30	-104.27	4,630.96	143.39	4,665.02	4,646.22	18.80	248.146	
2,800.00	2,784.35	2,870.03	2,869.50	9.86	9.66	-104.56	4,629.80	143.74	4,669.97	4,650.45	19.52	239.270	
2,900.00	2,881.45	2,965.67	2,965.13	10.23	10.00	-104.83	4,628.77	144.07	4,675.09	4,654.87	20.22	231.234	
3,000.00	2,978.55	3,068.64	3,068.10	10.60	10.37	-105.12	4,627.56	144.33	4,680.23	4,659.28	20.95	223.432	
3,100.00	3,075.65	3,165.67	3,165.11	10.96	10.71	-105.40	4,626.34	143.71	4,685.42	4,663.76	21.66	216.343	
3,200.00	3,172.74	3,270.69	3,270.10	11.34	11.08	-105.72	4,624.97	141.34	4,690.72	4,668.33	22.40	209.436	
3,300.00	3,269.84	3,362.86	3,362.18	11.71	11.41	-106.02	4,623.58	137.72	4,696.01	4,672.91	23.09	203.363	
3,400.00	3,366.94	3,439.87	3,439.10	12.08	11.68	-106.29	4,622.62	133.97	4,701.72	4,677.99	23.73	198.103	
3,500.00	3,464.04	3,515.71	3,514.81	12.46	11.94	-106.55	4,622.01	129.51	4,708.05	4,683.68	24.37	193.175	
3,600.00	3,561.14	3,587.00	3,585.93	12.83	12.20	-106.81	4,621.60	124.67	4,714.86	4,689.86	24.99	188.641	
3,700.00	3,658.24	3,666.87	3,665.56	13.21	12.48	-107.10	4,621.45	118.55	4,722.24	4,696.59	25.65	184.126	
3,800.00	3,755.33	3,728.19	3,726.65	13.59	12.69	-107.33	4,621.70	113.24	4,730.42	4,704.19	26.23	180.330	
3,900.00	3,852.43	3,789.08	3,787.24	13.97	12.90	-107.57	4,622.36	107.18	4,739.51	4,712.69	26.81	176.750	
4,000.00	3,949.53	3,856.22	3,853.93	14.35	13.14	-107.85	4,623.43	99.51	4,749.40	4,721.98	27.42	173.214	
4,100.00	4,046.63	3,942.81	3,939.74	14.73	13.44	-108.22	4,625.05	88.11	4,759.91	4,731.81	28.10	169.417	
4,200.00	4,143.73	4,018.62	4,014.71	15.11	13.71	-108.55	4,626.48	76.89	4,770.83	4,742.10	28.73	166.043	
4,300.00	4,240.82	4,084.25	4,079.50	15.50	13.94	-108.85	4,627.96	66.54	4,782.47	4,753.14	29.33	163.057	
4,400.00	4,337.92	4,153.00	4,147.31	15.88	14.18	-109.16	4,629.98	55.40	4,795.01	4,765.07	29.94	160.161	
4,500.00	4,435.02	4,207.51	4,201.05	16.27	14.37	-109.41	4,631.92	46.46	4,808.40	4,777.91	30.49	157.700	
4,600.00	4,532.12	4,288.76	4,281.12	16.65	14.65	-109.78	4,635.15	33.02	4,822.54	4,791.40	31.15	154.832	
4,700.00	4,629.22	4,386.64	4,377.52	17.04	15.00	-110.23	4,638.91	16.54	4,836.89	4,805.02	31.87	151.770	
4,800.00	4,726.31	4,476.84	4,466.34	17.42	15.32	-110.64	4,642.34	1.17	4,851.51	4,818.95	32.56	148.987	

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 3H
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 3H	**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
4,900.00	4,823.41	4,569.88	4,557.88	17.81	15.65	-111.07	4,645.83	-15.07	4,866.45	4,833.18	33.27	146.275	
5,000.00	4,920.51	4,683.74	4,669.88	18.20	16.05	-111.59	4,649.84	-35.19	4,881.52	4,847.46	34.06	143.318	
5,100.00	5,017.61	4,778.09	4,762.67	18.58	16.39	-112.02	4,652.72	-52.01	4,896.47	4,861.69	34.77	140.806	
5,200.00	5,114.71	14,434.18	9,896.73	18.97	50.83	174.16	-155.58	-217.11	4,839.14	4,788.37	50.77	95.324	
5,300.00	5,211.80	14,439.58	9,896.77	19.36	50.86	174.01	-160.97	-217.08	4,748.46	4,697.34	51.12	92.880	
5,400.00	5,308.90	14,445.04	9,896.81	19.75	50.89	173.86	-166.44	-217.05	4,658.16	4,606.66	51.50	90.456	
5,500.00	5,406.00	14,460.00	9,896.94	20.14	50.98	173.44	-181.40	-216.96	4,568.26	4,516.32	51.94	87.945	
5,600.00	5,503.10	14,460.00	9,896.94	20.53	50.98	173.44	-181.40	-216.96	4,478.77	4,426.46	52.30	85.628	
5,700.00	5,600.20	14,460.00	9,896.94	20.91	50.98	173.44	-181.40	-216.96	4,389.72	4,337.04	52.68	83.329	
5,800.00	5,697.30	14,460.00	9,896.94	21.30	50.98	173.44	-181.40	-216.96	4,301.16	4,248.09	53.07	81.049	
5,900.00	5,794.39	14,460.00	9,896.94	21.69	50.98	173.44	-181.40	-216.96	4,213.11	4,159.63	53.47	78.789	
6,000.00	5,891.49	14,476.02	9,897.11	22.09	51.07	172.99	-197.42	-216.84	4,125.56	4,071.55	54.00	76.396	
6,100.00	5,988.59	14,481.06	9,897.17	22.48	51.10	172.85	-202.46	-216.79	4,038.59	3,984.12	54.47	74.137	
6,200.00	6,085.69	14,486.21	9,897.23	22.87	51.13	172.70	-207.60	-216.75	3,952.24	3,897.27	54.97	71.903	
6,300.00	6,182.79	14,491.46	9,897.30	23.26	51.16	172.55	-212.86	-216.70	3,866.54	3,811.06	55.48	69.695	
6,400.00	6,279.88	14,496.83	9,897.38	23.65	51.19	172.40	-218.23	-216.65	3,781.52	3,725.51	56.01	67.514	
6,500.00	6,376.98	14,502.33	9,897.46	24.04	51.22	172.25	-223.72	-216.60	3,697.24	3,640.68	56.57	65.361	
6,600.00	6,474.08	14,507.94	9,897.55	24.43	51.25	172.09	-229.33	-216.54	3,613.76	3,556.61	57.15	63.237	
6,700.00	6,571.18	14,513.69	9,897.64	24.82	51.28	171.93	-235.08	-216.48	3,531.12	3,473.37	57.75	61.143	
6,800.00	6,668.28	14,519.56	9,897.75	25.22	51.32	171.76	-240.95	-216.41	3,449.38	3,391.00	58.38	59.081	
6,900.00	6,765.37	14,525.57	9,897.86	25.61	51.35	171.59	-246.96	-216.34	3,368.62	3,309.58	59.04	57.052	
7,000.00	6,862.47	14,531.73	9,897.97	26.00	51.39	171.42	-253.11	-216.27	3,288.90	3,229.16	59.73	55.058	
7,100.00	6,959.57	14,538.03	9,898.10	26.39	51.42	171.24	-259.41	-216.19	3,210.30	3,149.84	60.46	53.100	
7,200.00	7,056.67	14,553.00	9,898.42	26.78	51.51	170.82	-274.38	-215.99	3,132.91	3,071.65	61.27	51.136	
7,300.00	7,153.77	14,553.00	9,898.42	27.18	51.51	170.82	-274.38	-215.99	3,056.80	2,994.78	62.02	49.291	
7,400.00	7,250.86	14,563.91	9,898.65	27.57	51.57	170.51	-285.29	-215.84	2,982.08	2,919.21	62.87	47.434	
7,500.00	7,347.96	14,578.17	9,898.92	27.96	51.65	170.10	-299.54	-215.66	2,908.84	2,845.06	63.78	45.608	
7,600.00	7,445.06	14,591.39	9,899.13	28.36	51.73	169.73	-312.76	-215.51	2,837.19	2,772.47	64.72	43.837	
7,700.00	7,542.16	14,603.67	9,899.29	28.75	51.80	169.38	-325.04	-215.38	2,767.27	2,701.57	65.70	42.122	
7,800.00	7,639.26	14,615.12	9,899.41	29.14	51.86	169.05	-336.48	-215.27	2,699.21	2,632.50	66.71	40.464	
7,900.00	7,736.36	14,625.81	9,899.50	29.54	51.93	168.75	-347.18	-215.18	2,633.16	2,565.40	67.75	38.864	
7,902.86	7,739.13	14,626.11	9,899.50	29.55	51.93	168.74	-347.47	-215.18	2,631.30	2,563.52	67.78	38.819	
7,950.00	7,784.76	14,633.71	9,899.55	29.73	51.97	155.39	-355.07	-215.12	2,600.96	2,532.65	68.31	38.078	
8,000.00	7,832.63	14,647.53	9,899.61	29.93	52.05	145.46	-368.89	-215.02	2,569.49	2,500.59	68.90	37.292	
8,050.00	7,879.58	14,663.65	9,899.65	30.12	52.14	139.40	-385.02	-214.90	2,538.98	2,469.47	69.51	36.525	
8,100.00	7,925.27	14,684.99	9,899.71	30.31	52.27	135.85	-406.35	-214.71	2,509.62	2,439.46	70.16	35.772	
8,150.00	7,969.35	14,711.11	9,899.77	30.49	52.42	133.84	-432.47	-214.41	2,481.56	2,410.74	70.82	35.039	
8,200.00	8,011.47	14,741.82	9,899.84	30.67	52.60	132.74	-463.18	-213.99	2,454.95	2,383.44	71.51	34.331	
8,250.00	8,051.32	14,773.42	9,899.91	30.83	52.78	132.26	-494.78	-213.48	2,429.92	2,357.73	72.19	33.661	
8,300.00	8,088.60	14,808.97	9,900.01	30.99	52.99	132.09	-530.31	-212.82	2,406.58	2,333.71	72.87	33.024	
8,350.00	8,123.02	14,844.26	9,900.12	31.14	53.19	132.18	-565.60	-212.10	2,385.04	2,311.50	73.54	32.432	
8,400.00	8,154.32	14,875.11	9,900.21	31.28	53.37	132.46	-596.44	-211.59	2,365.48	2,291.32	74.16	31.898	
8,450.00	8,182.27	14,907.93	9,900.28	31.42	53.56	132.78	-629.27	-211.24	2,348.03	2,273.27	74.77	31.405	
8,500.00	8,206.64	14,946.62	9,900.32	31.54	53.79	133.05	-667.95	-211.05	2,332.77	2,257.39	75.38	30.946	
8,550.00	8,227.26	14,992.98	9,900.37	31.66	54.07	133.28	-714.32	-210.85	2,319.61	2,243.60	76.01	30.517	
8,600.00	8,243.96	15,042.03	9,900.43	31.78	54.36	133.51	-763.37	-210.61	2,308.54	2,231.91	76.62	30.129	
8,621.67	8,249.95	15,064.37	9,900.46	31.83	54.49	133.61	-785.71	-210.45	2,304.38	2,227.50	76.88	29.973	
8,700.00	8,267.63	15,144.92	9,900.66	32.00	54.97	133.75	-866.25	-209.68	2,291.85	2,214.06	77.79	29.461	
8,800.00	8,282.55	15,244.70	9,900.73	32.23	55.56	133.88	-966.03	-208.73	2,281.14	2,202.24	78.89	28.914	
8,900.00	8,288.79	15,348.27	9,900.79	32.46	56.19	133.94	-1,069.59	-207.75	2,276.47	2,196.51	79.96	28.471	
8,921.67	8,289.00	15,372.63	9,900.76	32.51	56.34	133.95	-1,093.94	-207.49	2,276.21	2,196.02	80.19	28.384	
9,000.00	8,289.00	15,444.62	9,900.58	32.69	56.77	133.95	-1,165.94	-206.78	2,275.78	2,194.83	80.95	28.114	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,289.00	15,542.31	9,900.25	32.94	57.37	133.95	-1,263.63	-206.52	2,275.67	2,193.70	81.97	27.763	
9,200.00	8,289.00	15,652.85	9,900.04	33.20	58.05	133.95	-1,374.16	-205.50	2,275.19	2,192.11	83.08	27.385	
9,300.00	8,289.00	15,755.25	9,899.60	33.48	58.68	133.95	-1,476.55	-204.38	2,274.42	2,190.26	84.16	27.024	
9,400.00	8,289.00	15,865.00	9,898.96	33.77	59.37	133.96	-1,586.28	-202.70	2,273.22	2,187.91	85.31	26.648	
9,500.00	8,289.00	15,945.94	9,898.66	34.07	59.87	133.97	-1,667.21	-201.45	2,272.22	2,185.94	86.28	26.335	
9,600.00	8,289.00	16,059.57	9,898.30	34.38	60.59	133.98	-1,780.84	-200.46	2,271.70	2,184.22	87.49	25.966	
9,700.00	8,289.00	16,146.00	9,898.11	34.70	61.13	133.98	-1,867.26	-199.76	2,271.26	2,182.72	88.53	25.655	
9,800.00	8,289.00	16,260.74	9,898.04	35.04	61.86	133.99	-1,981.99	-198.33	2,270.64	2,180.87	89.77	25.294	
9,900.00	8,289.00	16,355.10	9,897.75	35.39	62.46	134.00	-2,076.35	-196.98	2,269.73	2,178.84	90.89	24.972	
10,000.00	8,289.00	16,448.61	9,897.31	35.75	63.06	134.00	-2,169.85	-196.20	2,269.11	2,177.09	92.02	24.658	
10,100.00	8,289.00	16,542.66	9,896.94	36.12	63.67	134.00	-2,263.89	-195.54	2,268.66	2,175.49	93.17	24.350	
10,124.25	8,289.00	16,561.59	9,896.86	36.22	63.79	134.00	-2,282.83	-195.50	2,268.63	2,175.21	93.42	24.283	
10,200.00	8,289.00	16,626.82	9,896.50	36.51	64.21	133.98	-2,348.05	-195.89	2,268.90	2,174.64	94.26	24.070	
10,300.00	8,289.00	16,753.06	9,895.44	36.90	65.03	133.96	-2,474.28	-195.42	2,268.25	2,172.59	95.66	23.710	
10,400.00	8,289.00	16,853.74	9,894.94	37.31	65.68	133.95	-2,574.96	-194.85	2,267.82	2,170.93	96.89	23.405	
10,500.00	8,289.00	16,956.31	9,893.86	37.72	66.35	133.94	-2,677.53	-194.01	2,266.81	2,168.66	98.15	23.095	
10,595.63	8,289.00	17,033.00	9,893.52	38.13	66.86	133.94	-2,754.21	-193.47	2,266.35	2,167.15	99.20	22.846	
10,600.00	8,289.00	17,036.30	9,893.50	38.15	66.88	133.94	-2,757.51	-193.48	2,266.35	2,167.10	99.25	22.835	
10,700.00	8,289.00	17,136.38	9,892.78	38.58	67.54	133.90	-2,857.59	-194.30	2,266.77	2,166.25	100.51	22.552	
10,800.00	8,289.00	17,270.29	9,891.49	39.03	68.42	133.88	-2,991.48	-193.48	2,265.95	2,163.93	102.03	22.210	
10,900.00	8,289.00	17,370.00	9,890.04	39.48	69.08	133.87	-3,091.17	-192.34	2,264.43	2,161.13	103.30	21.921	
10,932.59	8,289.00	17,370.00	9,890.04	39.63	69.08	133.87	-3,091.17	-192.34	2,264.20	2,160.72	103.48	21.881	
11,000.00	8,289.00	17,406.43	9,889.26	39.94	69.32	133.84	-3,127.59	-192.88	2,264.38	2,160.27	104.11	21.750	
11,100.00	8,289.00	17,464.00	9,888.11	40.41	69.70	133.75	-3,185.01	-196.66	2,267.48	2,162.40	105.07	21.580	
11,200.00	8,289.00	17,661.30	9,889.83	40.89	71.02	133.68	-3,382.11	-201.55	2,271.76	2,164.61	107.15	21.201	
11,300.00	8,289.00	17,774.47	9,890.02	41.38	71.78	133.72	-3,495.25	-198.75	2,270.40	2,161.86	108.54	20.917	
11,400.00	8,289.00	17,878.10	9,890.30	41.88	72.48	133.78	-3,598.82	-195.52	2,268.65	2,158.79	109.87	20.649	
11,500.00	8,289.00	17,973.76	9,890.85	42.38	73.13	133.83	-3,694.42	-192.31	2,266.96	2,155.81	111.14	20.397	
11,600.00	8,289.00	18,078.48	9,891.15	42.89	73.84	133.88	-3,799.10	-189.32	2,265.42	2,152.93	112.49	20.139	
11,700.00	8,289.00	18,168.64	9,891.24	43.41	74.45	133.93	-3,889.22	-186.53	2,263.60	2,149.86	113.74	19.901	
11,800.00	8,289.00	18,243.24	9,891.60	43.93	74.96	133.95	-3,963.81	-185.06	2,262.83	2,147.95	114.88	19.697	
11,823.55	8,289.00	18,261.55	9,891.70	44.06	75.08	133.96	-3,982.12	-184.86	2,262.81	2,147.65	115.16	19.650	CC
11,900.00	8,289.00	18,322.98	9,891.94	44.46	75.50	133.96	-4,043.54	-184.67	2,263.09	2,147.02	116.06	19.499	
12,000.00	8,289.00	18,404.00	9,892.43	45.00	76.05	133.96	-4,124.56	-184.78	2,263.96	2,146.71	117.25	19.308	ES
12,100.00	8,289.00	18,484.70	9,893.00	45.55	76.60	133.95	-4,205.25	-185.75	2,265.68	2,147.24	118.44	19.129	
12,200.00	8,289.00	18,570.40	9,893.16	46.10	77.19	133.90	-4,290.90	-188.45	2,268.41	2,148.72	119.69	18.953	
12,300.00	8,289.00	18,688.54	9,892.13	46.65	77.99	133.78	-4,408.94	-193.37	2,271.15	2,149.91	121.23	18.734	
12,400.00	8,289.00	18,799.09	9,891.44	47.21	78.75	133.70	-4,519.43	-196.83	2,273.31	2,150.60	122.71	18.526	
12,500.00	8,289.00	18,899.60	9,891.07	47.78	79.44	133.65	-4,619.92	-198.88	2,274.86	2,150.76	124.10	18.331	
12,600.00	8,289.00	18,995.55	9,890.84	48.35	80.10	133.60	-4,715.84	-201.51	2,276.99	2,151.53	125.45	18.150	
12,688.51	8,289.00	19,107.11	9,890.17	48.86	80.87	133.55	-4,827.38	-203.08	2,277.70	2,150.81	126.88	17.951	
12,700.00	8,289.00	19,116.31	9,890.13	48.93	80.93	133.55	-4,836.57	-203.19	2,277.88	2,150.86	127.02	17.933	
12,750.00	8,289.00	19,156.27	9,890.00	49.23	81.21	133.68	-4,876.54	-203.79	2,280.65	2,153.00	127.64	17.867	
12,800.00	8,289.00	19,214.41	9,889.73	49.53	81.61	133.88	-4,934.67	-204.76	2,286.40	2,157.96	128.44	17.802	
12,850.00	8,289.00	19,277.92	9,889.12	49.84	82.05	134.16	-4,998.16	-205.72	2,294.88	2,165.59	129.29	17.750	
12,900.00	8,289.00	19,351.84	9,888.55	50.15	82.56	134.49	-5,072.08	-205.74	2,305.84	2,175.61	130.24	17.705	
12,950.00	8,289.00	19,433.67	9,888.23	50.47	83.13	134.85	-5,153.89	-203.97	2,319.07	2,187.84	131.23	17.672	SF
13,000.00	8,289.00	19,464.15	9,888.16	50.79	83.35	135.73	-5,184.35	-203.05	2,334.92	2,203.08	131.84	17.710	
13,050.00	8,289.00	19,493.74	9,888.06	51.10	83.55	136.84	-5,213.94	-202.48	2,353.88	2,221.43	132.45	17.773	
13,100.00	8,289.00	19,524.00	9,887.95	51.40	83.76	138.17	-5,244.20	-201.99	2,375.67	2,242.62	133.05	17.855	
13,150.00	8,289.00	19,524.00	9,887.95	51.70	83.76	140.21	-5,244.20	-201.99	2,400.52	2,267.12	133.39	17.996	
13,200.00	8,289.00	19,524.00	9,887.95	51.99	83.76	142.68	-5,244.20	-201.99	2,428.34	2,294.64	133.70	18.162	

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 3H
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 3H	**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
13,250.00	8,289.00	19,524.00	9,887.95	52.26	83.76	145.63	-5,244.20	-201.99	2,458.87	2,324.88	133.99	18.351	
13,300.00	8,289.00	19,524.00	9,887.95	52.52	83.76	149.10	-5,244.20	-201.99	2,491.79	2,357.54	134.25	18.560	
13,350.00	8,289.00	19,524.00	9,887.95	52.77	83.76	153.15	-5,244.20	-201.99	2,526.80	2,392.30	134.50	18.786	
13,400.00	8,289.00	19,524.00	9,887.95	53.00	83.76	157.80	-5,244.20	-201.99	2,563.58	2,428.85	134.73	19.027	
13,450.00	8,289.00	19,524.00	9,887.95	53.20	83.76	163.06	-5,244.20	-201.99	2,601.81	2,466.86	134.95	19.279	
13,500.00	8,289.00	19,524.00	9,887.95	53.39	83.76	168.90	-5,244.20	-201.99	2,641.17	2,506.01	135.16	19.540	
13,550.00	8,289.00	19,524.00	9,887.95	53.55	83.76	175.20	-5,244.20	-201.99	2,681.36	2,545.99	135.37	19.808	
13,600.00	8,289.00	19,524.00	9,887.95	53.69	83.76	-178.20	-5,244.20	-201.99	2,722.07	2,586.51	135.56	20.080	
13,650.00	8,289.00	19,524.00	9,887.95	53.80	83.76	-171.51	-5,244.20	-201.99	2,763.01	2,627.26	135.75	20.353	
13,700.00	8,289.00	19,524.00	9,887.95	53.89	83.76	-164.96	-5,244.20	-201.99	2,803.91	2,667.97	135.94	20.627	
13,750.00	8,289.00	19,524.00	9,887.95	53.96	83.76	-158.75	-5,244.20	-201.99	2,844.48	2,708.37	136.12	20.898	
13,800.00	8,289.00	19,524.00	9,887.95	54.00	83.76	-153.02	-5,244.20	-201.99	2,884.49	2,748.20	136.29	21.165	
13,850.00	8,289.00	19,524.00	9,887.95	54.02	83.76	-147.85	-5,244.20	-201.99	2,923.68	2,787.22	136.45	21.426	
13,900.00	8,289.00	19,524.00	9,887.95	54.01	83.76	-143.27	-5,244.20	-201.99	2,961.83	2,825.22	136.61	21.681	
13,950.00	8,289.00	19,524.00	9,887.95	53.99	83.76	-139.25	-5,244.20	-201.99	2,998.72	2,861.96	136.76	21.927	
14,000.00	8,289.00	19,524.00	9,887.95	53.94	83.76	-135.76	-5,244.20	-201.99	3,034.17	2,897.27	136.90	22.164	
14,050.00	8,289.00	19,524.00	9,887.95	53.88	83.76	-132.74	-5,244.20	-201.99	3,067.97	2,930.94	137.03	22.390	
14,100.00	8,289.00	19,524.00	9,887.95	53.80	83.76	-130.15	-5,244.20	-201.99	3,099.97	2,962.83	137.14	22.604	
14,150.00	8,289.00	19,524.00	9,887.95	53.70	83.76	-127.92	-5,244.20	-201.99	3,130.00	2,992.75	137.24	22.806	
14,200.00	8,289.00	19,524.00	9,887.95	53.59	83.76	-126.01	-5,244.20	-201.99	3,157.92	3,020.59	137.33	22.995	
14,250.00	8,289.00	19,495.57	9,888.05	53.47	83.56	-124.20	-5,215.77	-202.45	3,183.47	3,046.32	137.15	23.212	
14,300.00	8,289.00	19,469.37	9,888.14	53.33	83.38	-122.73	-5,189.58	-202.93	3,206.21	3,069.22	136.99	23.405	
14,350.00	8,289.00	19,422.10	9,888.28	53.20	83.05	-121.43	-5,142.32	-204.16	3,226.15	3,089.52	136.64	23.611	
14,400.00	8,289.00	19,332.82	9,888.67	53.05	82.43	-120.28	-5,053.06	-205.86	3,242.84	3,106.92	135.91	23.859	
14,450.00	8,289.00	19,228.50	9,889.61	52.91	81.71	-119.46	-4,948.75	-205.00	3,254.81	3,119.77	135.04	24.102	
14,500.00	8,289.00	19,170.41	9,889.96	52.76	81.30	-118.99	-4,890.67	-204.03	3,262.94	3,128.33	134.62	24.239	
14,530.51	8,289.00	19,142.69	9,890.03	52.67	81.11	-118.82	-4,862.95	-203.57	3,266.11	3,131.68	134.43	24.296	
14,600.00	8,289.00	19,091.75	9,890.26	52.46	80.76	-118.72	-4,812.02	-202.90	3,271.04	3,136.90	134.14	24.385	
14,700.00	8,289.00	18,937.94	9,890.98	52.18	79.70	-118.66	-4,658.24	-199.82	3,273.91	3,140.94	132.97	24.622	
14,762.01	8,289.00	18,895.99	9,891.08	52.01	79.41	-118.67	-4,616.31	-198.81	3,273.25	3,140.48	132.76	24.655	
14,800.00	8,289.00	18,867.72	9,891.14	51.90	79.22	-118.68	-4,588.05	-198.29	3,272.52	3,139.91	132.61	24.677	
14,900.00	8,289.00	18,724.54	9,891.84	51.64	78.24	-118.72	-4,444.92	-194.65	3,270.18	3,138.60	131.58	24.853	
15,000.00	8,289.00	18,597.10	9,893.03	51.38	77.37	-118.79	-4,317.58	-189.60	3,266.79	3,136.08	130.71	24.993	
15,100.00	8,289.00	18,521.92	9,893.18	51.14	76.85	-118.82	-4,242.46	-186.74	3,263.19	3,132.83	130.36	25.032	
15,200.00	8,289.00	18,458.42	9,892.83	50.90	76.42	-118.83	-4,178.97	-185.25	3,260.51	3,130.39	130.12	25.058	
15,300.00	8,289.00	18,396.95	9,892.37	50.66	76.00	-118.83	-4,117.51	-184.76	3,259.06	3,129.17	129.89	25.092	
15,400.00	8,289.00	18,310.00	9,891.89	50.44	75.41	-118.82	-4,030.56	-184.66	3,258.31	3,128.88	129.43	25.175	
15,453.68	8,289.00	18,272.38	9,891.74	50.33	75.15	-118.82	-3,992.94	-184.78	3,258.16	3,128.89	129.27	25.205	
15,500.00	8,289.00	18,242.14	9,891.60	50.23	74.95	-118.82	-3,962.70	-185.08	3,258.27	3,129.13	129.14	25.230	
15,600.00	8,289.00	18,177.96	9,891.27	50.02	74.51	-118.81	-3,898.54	-186.29	3,259.31	3,130.43	128.88	25.290	
15,700.00	8,289.00	18,105.88	9,891.17	49.82	74.02	-118.79	-3,826.49	-188.46	3,261.44	3,132.90	128.55	25.371	
15,800.00	8,289.00	17,991.55	9,890.94	49.64	73.25	-118.76	-3,712.21	-191.77	3,263.48	3,135.58	127.90	25.516	
15,900.00	8,289.00	17,901.67	9,890.42	49.46	72.64	-118.73	-3,622.38	-194.72	3,265.69	3,138.24	127.44	25.624	
16,000.00	8,289.00	17,794.65	9,890.05	49.29	71.92	-118.70	-3,515.42	-198.17	3,267.97	3,141.10	126.87	25.758	
16,100.00	8,289.00	17,464.00	9,888.11	49.13	69.70	-118.70	-3,185.01	-196.66	3,267.71	3,143.27	124.44	26.258	
16,200.00	8,289.00	17,416.17	9,889.06	48.98	69.39	-118.74	-3,137.32	-193.27	3,262.85	3,138.39	124.46	26.217	
16,300.00	8,289.00	17,370.00	9,890.04	48.84	69.08	-118.77	-3,091.17	-192.34	3,260.96	3,136.51	124.46	26.201	
16,355.48	8,289.00	17,370.00	9,890.04	48.77	69.08	-118.77	-3,091.17	-192.34	3,260.49	3,135.84	124.65	26.157	
16,400.00	8,289.00	17,362.13	9,890.21	48.71	69.03	-118.77	-3,083.31	-192.38	3,260.79	3,136.06	124.73	26.143	
16,500.00	8,289.00	17,276.09	9,891.45	48.59	68.46	-118.78	-2,997.28	-193.38	3,262.12	3,137.73	124.38	26.226	
16,600.00	8,289.00	17,087.00	9,893.19	48.48	67.21	-118.81	-2,808.21	-193.84	3,262.47	3,139.19	123.28	26.464	
16,700.00	8,289.00	17,024.90	9,893.55	48.38	66.80	-118.82	-2,746.11	-193.48	3,261.86	3,138.71	123.15	26.486	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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
16,701.40	8,289.00	17,024.04	9,893.56	48.38	66.80	-118.82	-2,745.25	-193.48	3,261.86	3,138.71	123.15	26.487	
16,800.00	8,289.00	16,951.11	9,893.89	48.29	66.32	-118.83	-2,672.32	-194.06	3,262.34	3,139.41	122.93	26.538	
16,900.00	8,289.00	16,840.31	9,895.04	48.21	65.60	-118.84	-2,561.54	-194.93	3,263.17	3,140.72	122.45	26.648	
17,000.00	8,289.00	16,746.99	9,895.49	48.15	64.99	-118.85	-2,468.22	-195.47	3,263.54	3,141.42	122.11	26.726	
17,100.00	8,289.00	16,616.00	9,896.57	48.09	64.14	-118.86	-2,337.23	-195.79	3,263.78	3,142.27	121.52	26.859	
17,200.00	8,289.00	16,522.00	9,897.01	48.05	63.53	-118.88	-2,243.24	-195.66	3,263.51	3,142.31	121.19	26.928	
17,203.42	8,289.00	16,522.00	9,897.01	48.05	63.53	-118.88	-2,243.24	-195.66	3,263.50	3,142.30	121.21	26.925	
17,300.00	8,289.00	16,439.68	9,897.35	48.01	63.00	-118.88	-2,160.92	-196.26	3,263.91	3,142.95	120.96	26.983	
17,400.00	8,289.00	16,351.83	9,897.76	47.99	62.44	-118.88	-2,073.08	-197.02	3,264.51	3,143.81	120.70	27.047	
17,500.00	8,289.00	16,264.79	9,898.03	47.99	61.89	-118.88	-1,986.04	-198.26	3,265.52	3,145.08	120.44	27.113	
17,600.00	8,289.00	16,129.63	9,898.14	47.99	61.03	-118.87	-1,850.89	-199.82	3,266.19	3,146.31	119.88	27.246	
17,700.00	8,289.00	16,061.65	9,898.29	48.01	60.60	-118.87	-1,782.92	-200.43	3,266.73	3,146.96	119.77	27.275	
17,800.00	8,289.00	15,940.16	9,898.68	48.04	59.84	-118.87	-1,661.44	-201.49	3,267.22	3,147.89	119.33	27.381	
17,900.00	8,289.00	15,865.00	9,898.96	48.08	59.37	-118.87	-1,586.28	-202.70	3,268.33	3,149.14	119.19	27.422	
18,000.00	8,289.00	15,749.37	9,899.64	48.14	58.65	-118.87	-1,470.67	-204.44	3,269.58	3,150.77	118.80	27.521	
18,100.00	8,289.00	15,649.25	9,900.04	48.21	58.03	-118.87	-1,370.56	-205.54	3,270.36	3,151.83	118.53	27.592	
18,200.00	8,289.00	15,527.57	9,900.29	48.29	57.28	-118.87	-1,248.89	-206.58	3,270.83	3,152.70	118.13	27.689	
18,254.46	8,289.00	15,470.92	9,900.49	48.34	56.93	-118.88	-1,192.24	-206.67	3,270.78	3,152.80	117.98	27.723	
18,300.00	8,289.00	15,437.16	9,900.60	48.39	56.73	-118.88	-1,158.47	-206.82	3,270.87	3,152.93	117.94	27.733	
18,400.00	8,289.00	15,343.14	9,900.79	48.50	56.16	-118.88	-1,064.46	-207.81	3,271.48	3,153.75	117.73	27.787	
18,500.00	8,289.00	15,238.63	9,900.73	48.63	55.53	-118.87	-959.95	-208.78	3,271.89	3,154.42	117.47	27.852	
18,600.00	8,289.00	15,138.80	9,900.65	48.76	54.93	-118.86	-860.13	-209.74	3,272.31	3,155.06	117.25	27.909	
18,700.00	8,289.00	15,025.84	9,900.40	48.92	54.26	-118.86	-747.18	-210.70	3,272.56	3,155.60	116.96	27.980	
18,797.37	8,289.00	14,928.00	9,900.30	49.08	53.68	-118.86	-649.33	-211.13	3,272.51	3,155.75	116.76	28.027	
18,800.00	8,289.00	14,928.00	9,900.30	49.08	53.68	-118.86	-649.33	-211.13	3,272.51	3,155.74	116.77	28.024	
18,900.00	8,289.00	14,857.02	9,900.16	49.26	53.27	-118.85	-578.35	-211.87	3,272.97	3,156.23	116.74	28.036	
19,000.00	8,289.00	14,757.60	9,899.87	49.46	52.69	-118.83	-478.96	-213.74	3,274.09	3,157.54	116.56	28.090	
19,100.00	8,289.00	14,624.88	9,899.49	50.02	51.92	-118.82	-346.25	-215.19	3,274.52	3,158.53	115.98	28.233	
19,101.33	8,289.00	14,623.39	9,899.48	50.05	51.91	-118.82	-344.75	-215.20	3,274.52	3,158.54	115.98	28.234	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	31.32	31.32	0.00	0.05	1.48	4,644.73	120.37	4,646.29				
100.00	100.00	128.58	128.58	0.28	0.20	1.48	4,644.78	120.22	4,646.34	4,645.86	0.48	9,676.988	
200.00	200.00	223.86	223.86	0.63	0.40	1.48	4,644.90	119.90	4,646.45	4,645.42	1.04	4,487.075	
300.00	300.00	314.94	314.93	0.99	0.73	1.47	4,645.18	119.24	4,646.74	4,645.02	1.72	2,700.779	
400.00	400.00	409.75	409.75	1.35	1.07	1.46	4,645.57	118.28	4,647.13	4,644.71	2.42	1,921.831	
500.00	500.00	478.00	477.99	1.71	1.31	1.45	4,646.04	117.94	4,647.85	4,644.83	3.02	1,539.832	
600.00	600.00	569.00	568.98	2.07	1.63	1.45	4,647.17	117.96	4,649.10	4,645.40	3.70	1,257.739	
700.00	700.00	635.37	635.34	2.43	1.86	1.45	4,648.37	117.99	4,650.87	4,646.58	4.29	1,084.211	
800.00	800.00	704.48	704.43	2.79	2.11	1.45	4,650.04	117.80	4,653.29	4,648.39	4.89	951.002	
900.00	900.00	813.72	813.62	3.14	2.50	1.44	4,653.22	117.25	4,656.20	4,650.56	5.64	825.513	
1,000.00	1,000.00	996.08	995.96	3.50	3.15	1.44	4,656.28	117.37	4,657.90	4,651.25	6.65	700.698	
1,100.00	1,100.00	1,174.91	1,174.77	3.86	3.77	1.42	4,655.86	115.71	4,657.49	4,649.86	7.63	610.558	
1,200.00	1,200.00	1,290.48	1,290.33	4.22	4.17	1.41	4,654.68	114.51	4,656.45	4,648.07	8.38	555.465	
1,300.00	1,300.00	1,396.91	1,396.75	4.58	4.53	1.40	4,653.28	113.38	4,655.11	4,646.00	9.11	511.122	
1,400.00	1,400.00	1,484.52	1,484.34	4.94	4.83	1.39	4,652.18	112.62	4,653.84	4,644.07	9.77	476.375	
1,500.00	1,500.00	1,588.75	1,588.56	5.29	5.20	1.38	4,651.02	111.84	4,652.71	4,642.22	10.49	443.568	
1,600.00	1,600.00	1,647.51	1,647.32	5.65	5.40	1.37	4,650.55	111.42	4,651.91	4,640.86	11.06	420.794	
1,634.57	1,634.57	1,666.96	1,666.77	5.78	5.47	1.37	4,650.52	111.26	4,651.86	4,640.61	11.25	413.587	
1,700.00	1,700.00	1,708.74	1,708.55	6.01	5.62	1.37	4,650.66	110.90	4,652.04	4,640.41	11.63	400.001	
1,800.00	1,800.00	1,784.40	1,784.20	6.37	5.89	1.35	4,651.27	110.00	4,652.82	4,640.56	12.26	379.575	
1,900.00	1,899.98	1,897.91	1,897.70	6.72	6.29	-103.38	4,652.32	108.89	4,654.13	4,641.12	13.01	357.786	
2,000.00	1,999.84	2,024.57	2,024.34	7.06	6.73	-103.41	4,652.87	110.67	4,655.81	4,642.03	13.78	337.828	
2,100.00	2,099.45	2,134.22	2,133.93	7.40	7.10	-103.44	4,652.79	114.14	4,657.83	4,643.34	14.49	321.352	
2,200.00	2,198.70	2,257.01	2,256.71	7.74	7.52	-103.55	4,652.45	115.50	4,660.45	4,645.20	15.26	305.493	
2,300.00	2,297.47	2,348.00	2,347.70	8.09	7.83	-103.65	4,651.97	116.08	4,663.65	4,647.74	15.91	293.085	
2,400.00	2,395.62	2,407.11	2,406.81	8.44	8.03	-103.69	4,651.95	116.22	4,668.24	4,651.77	16.47	283.496	
2,491.84	2,485.13	2,442.00	2,441.70	8.76	8.15	-103.67	4,652.21	116.07	4,674.08	4,657.18	16.91	276.425	
2,500.00	2,493.06	2,442.00	2,441.70	8.79	8.15	-103.67	4,652.21	116.07	4,674.70	4,657.76	16.94	275.996	
2,600.00	2,590.16	2,495.00	2,494.68	9.14	8.34	-103.83	4,653.24	115.09	4,682.69	4,665.22	17.48	267.950	
2,700.00	2,687.25	2,575.65	2,575.26	9.50	8.63	-104.09	4,655.63	112.73	4,691.65	4,673.54	18.12	258.965	
2,800.00	2,784.35	2,665.29	2,664.82	9.86	8.94	-104.37	4,658.47	110.33	4,700.95	4,682.16	18.79	250.142	
2,900.00	2,881.45	2,791.15	2,790.57	10.23	9.39	-104.77	4,662.28	106.63	4,710.32	4,690.72	19.60	240.265	
3,000.00	2,978.55	2,964.07	2,963.28	10.60	10.00	-105.36	4,665.01	98.64	4,718.31	4,697.72	20.59	229.172	
3,100.00	3,075.65	3,062.79	3,061.86	10.96	10.36	-105.69	4,665.87	93.46	4,725.90	4,704.60	21.31	221.818	
3,200.00	3,172.74	3,162.93	3,161.85	11.34	10.71	-106.04	4,666.65	87.93	4,733.59	4,711.56	22.03	214.877	
3,300.00	3,269.84	3,267.51	3,266.21	11.71	11.08	-106.41	4,667.29	81.38	4,741.32	4,718.55	22.77	208.218	
3,400.00	3,366.94	3,413.91	3,411.89	12.08	11.61	-106.98	4,667.15	66.89	4,748.76	4,725.09	23.66	200.670	
3,500.00	3,464.04	3,492.00	3,489.52	12.46	11.88	-107.29	4,666.77	58.44	4,756.03	4,731.72	24.31	195.606	
3,600.00	3,561.14	3,578.14	3,575.05	12.83	12.19	-107.65	4,666.42	48.25	4,763.68	4,738.69	24.99	190.591	
3,700.00	3,658.24	3,676.80	3,672.76	13.21	12.55	-108.08	4,665.92	34.63	4,771.61	4,745.89	25.72	185.514	
3,800.00	3,755.33	3,727.49	3,722.87	13.59	12.73	-108.30	4,665.79	26.98	4,780.14	4,753.87	26.27	181.940	
3,900.00	3,852.43	3,776.95	3,771.67	13.97	12.91	-108.53	4,666.08	18.96	4,789.81	4,762.99	26.82	178.598	
4,000.00	3,949.53	3,864.82	3,858.19	14.35	13.22	-108.94	4,666.92	3.61	4,800.21	4,772.70	27.51	174.499	
4,100.00	4,046.63	4,056.15	4,045.83	14.73	13.91	-109.89	4,666.22	-33.72	4,809.82	4,781.24	28.59	168.243	
4,200.00	4,143.73	4,157.19	4,144.88	15.11	14.28	-110.38	4,664.77	-53.65	4,818.95	4,789.62	29.33	164.289	
4,300.00	4,240.82	4,276.86	4,262.01	15.50	14.72	-110.98	4,662.49	-78.03	4,828.09	4,797.94	30.15	160.150	
4,400.00	4,337.92	4,341.00	4,324.56	15.88	14.95	-111.31	4,660.80	-92.14	4,837.24	4,806.48	30.76	157.280	
4,500.00	4,435.02	4,408.77	4,390.54	16.27	15.20	-111.67	4,659.30	-107.54	4,847.20	4,815.82	31.38	154.480	
4,600.00	4,532.12	4,462.79	4,443.12	16.65	15.40	-111.95	4,658.70	-119.91	4,858.44	4,826.49	31.95	152.087	
4,700.00	4,629.22	4,530.00	4,508.48	17.04	15.65	-112.30	4,658.27	-135.56	4,870.56	4,838.00	32.56	149.574	
4,800.00	4,726.31	4,580.13	4,557.21	17.42	15.83	-112.56	4,658.25	-147.35	4,883.63	4,850.51	33.11	147.490	
4,900.00	4,823.41	4,625.00	4,600.82	17.81	16.00	-112.80	4,658.56	-157.88	4,897.78	4,864.14	33.64	145.614	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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
5,000.00	4,920.51	4,702.32	4,676.13	18.20	16.29	-113.19	4,659.67	-175.38	4,912.79	4,878.50	34.29	143.270	
5,100.00	5,017.61	14,326.59	9,663.05	18.58	50.95	171.90	-148.80	-875.52	4,869.71	4,818.55	51.16	95.189	
5,200.00	5,114.71	14,332.09	9,663.07	18.97	50.98	171.78	-154.31	-875.58	4,785.47	4,733.91	51.55	92.823	
5,300.00	5,211.80	14,337.58	9,663.09	19.36	51.01	171.66	-159.79	-875.64	4,701.83	4,649.87	51.97	90.480	
5,400.00	5,308.90	14,343.05	9,663.10	19.75	51.05	171.54	-165.26	-875.71	4,618.84	4,566.45	52.39	88.163	
5,500.00	5,406.00	14,348.50	9,663.12	20.14	51.08	171.42	-170.72	-875.77	4,536.53	4,483.70	52.83	85.871	
5,600.00	5,503.10	14,353.94	9,663.13	20.53	51.11	171.30	-176.16	-875.84	4,454.93	4,401.64	53.29	83.605	
5,700.00	5,600.20	14,359.44	9,663.15	20.91	51.14	171.18	-181.65	-875.91	4,374.09	4,320.33	53.76	81.365	
5,800.00	5,697.30	14,365.93	9,663.17	21.30	51.17	171.04	-188.15	-876.00	4,294.05	4,239.79	54.26	79.144	
5,900.00	5,794.39	14,372.50	9,663.19	21.69	51.21	170.90	-194.71	-876.08	4,214.85	4,160.08	54.77	76.952	
6,000.00	5,891.49	14,379.13	9,663.21	22.09	51.25	170.75	-201.34	-876.16	4,136.54	4,081.24	55.31	74.790	
6,100.00	5,988.59	14,385.83	9,663.24	22.48	51.28	170.60	-208.05	-876.23	4,059.18	4,003.31	55.87	72.660	
6,200.00	6,085.69	14,392.61	9,663.26	22.87	51.32	170.45	-214.82	-876.30	3,982.81	3,926.37	56.44	70.562	
6,300.00	6,182.79	14,399.45	9,663.29	23.26	51.36	170.30	-221.66	-876.37	3,907.50	3,850.46	57.05	68.497	
6,400.00	6,279.88	14,406.37	9,663.32	23.65	51.40	170.15	-228.58	-876.43	3,833.31	3,775.64	57.67	66.468	
6,500.00	6,376.98	14,413.36	9,663.35	24.04	51.44	170.00	-235.57	-876.48	3,760.31	3,701.98	58.32	64.474	
6,600.00	6,474.08	14,420.43	9,663.38	24.43	51.48	169.84	-242.64	-876.54	3,688.55	3,629.55	59.00	62.519	
6,700.00	6,571.18	14,427.57	9,663.41	24.82	51.52	169.68	-249.78	-876.59	3,618.13	3,558.42	59.70	60.603	
6,800.00	6,668.28	14,434.79	9,663.45	25.22	51.56	169.53	-257.00	-876.63	3,549.11	3,488.68	60.43	58.728	
6,900.00	6,765.37	14,442.09	9,663.49	25.61	51.60	169.37	-264.30	-876.67	3,481.58	3,420.39	61.19	56.895	
7,000.00	6,862.47	14,449.47	9,663.52	26.00	51.64	169.20	-271.68	-876.71	3,415.64	3,353.65	61.98	55.106	
7,100.00	6,959.57	14,457.09	9,663.56	26.39	51.68	169.03	-279.30	-876.74	3,351.36	3,288.56	62.80	53.363	
7,200.00	7,056.67	14,464.78	9,663.60	26.78	51.73	168.87	-286.99	-876.77	3,288.86	3,225.20	63.66	51.667	
7,300.00	7,153.77	14,472.35	9,663.63	27.18	51.77	168.70	-294.56	-876.80	3,228.22	3,163.69	64.54	50.022	
7,400.00	7,250.86	14,479.79	9,663.66	27.57	51.81	168.53	-301.99	-876.83	3,169.57	3,104.12	65.45	48.429	
7,500.00	7,347.96	14,487.10	9,663.69	27.96	51.85	168.37	-309.31	-876.86	3,113.01	3,046.63	66.39	46.891	
7,600.00	7,445.06	14,494.30	9,663.71	28.36	51.89	168.21	-316.51	-876.90	3,058.66	2,991.31	67.36	45.409	
7,700.00	7,542.16	14,501.38	9,663.72	28.75	51.93	168.06	-323.59	-876.93	3,006.64	2,938.29	68.36	43.985	
7,800.00	7,639.26	14,508.35	9,663.73	29.14	51.97	167.90	-330.56	-876.96	2,957.08	2,887.70	69.38	42.622	
7,900.00	7,736.36	14,515.21	9,663.74	29.54	52.01	167.75	-337.42	-876.99	2,910.09	2,839.66	70.43	41.320	
7,902.86	7,739.13	14,515.41	9,663.74	29.55	52.01	167.75	-337.61	-876.99	2,908.79	2,838.33	70.46	41.284	
7,950.00	7,784.76	14,520.75	9,663.75	29.73	52.04	152.91	-342.96	-877.02	2,887.58	2,816.61	70.97	40.686	
8,000.00	7,832.63	14,531.04	9,663.75	29.93	52.10	141.53	-353.25	-877.07	2,865.82	2,794.27	71.55	40.056	
8,050.00	7,879.58	14,545.94	9,663.74	30.12	52.19	134.07	-368.15	-877.14	2,844.93	2,772.78	72.14	39.434	
8,100.00	7,925.27	14,562.97	9,663.73	30.31	52.28	129.31	-385.18	-877.23	2,825.04	2,752.29	72.75	38.831	
8,150.00	7,969.35	14,584.07	9,663.72	30.49	52.40	126.23	-406.28	-877.33	2,806.25	2,732.88	73.37	38.246	
8,200.00	8,011.47	14,608.99	9,663.73	30.67	52.55	124.20	-431.19	-877.44	2,788.65	2,714.64	74.01	37.681	
8,250.00	8,051.32	14,637.53	9,663.76	30.83	52.71	122.84	-459.73	-877.57	2,772.28	2,697.64	74.64	37.141	
8,300.00	8,088.60	14,666.05	9,663.79	30.99	52.87	121.95	-488.26	-877.72	2,757.20	2,681.94	75.26	36.634	
8,350.00	8,123.02	14,697.11	9,663.80	31.14	53.05	121.35	-519.31	-877.96	2,743.48	2,667.60	75.88	36.156	
8,400.00	8,154.32	14,732.00	9,663.78	31.28	53.25	120.92	-554.20	-878.32	2,731.12	2,654.63	76.49	35.705	
8,450.00	8,182.27	14,789.02	9,663.57	31.42	53.58	120.41	-611.22	-878.87	2,719.98	2,642.79	77.19	35.239	
8,500.00	8,206.64	14,841.72	9,663.11	31.54	53.89	120.13	-663.91	-879.19	2,709.87	2,632.03	77.84	34.815	
8,550.00	8,227.26	14,881.03	9,662.68	31.66	54.12	120.08	-703.23	-879.49	2,701.04	2,622.65	78.39	34.455	
8,600.00	8,243.96	14,922.62	9,662.16	31.78	54.36	120.08	-744.81	-879.96	2,693.57	2,614.64	78.93	34.125	
8,621.67	8,249.95	14,949.70	9,661.80	31.83	54.52	120.05	-771.88	-880.26	2,690.72	2,611.52	79.20	33.974	
8,700.00	8,267.63	15,038.46	9,660.75	32.00	55.04	120.03	-860.64	-880.71	2,681.85	2,601.75	80.10	33.483	
8,800.00	8,282.55	15,125.46	9,660.00	32.23	55.56	120.09	-947.64	-881.03	2,674.57	2,593.51	81.06	32.993	
8,894.41	8,288.67	15,202.00	9,659.69	32.44	56.02	120.07	-1,024.17	-881.70	2,672.36	2,590.46	81.90	32.630	
8,900.00	8,288.79	15,203.59	9,659.69	32.46	56.03	120.07	-1,025.76	-881.72	2,672.37	2,590.44	81.93	32.617	
8,921.67	8,289.00	15,226.34	9,659.64	32.51	56.16	120.06	-1,048.51	-881.99	2,672.56	2,590.42	82.14	32.537	
9,000.00	8,289.00	15,317.64	9,659.45	32.69	56.71	120.04	-1,139.80	-882.94	2,673.50	2,590.56	82.94	32.233	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,289.00	15,429.90	9,658.89	32.94	57.39	120.02	-1,252.06	-882.98	2,673.61	2,589.64	83.96	31.842	
9,200.00	8,289.00	15,513.32	9,659.37	33.20	57.90	120.02	-1,335.47	-883.21	2,674.48	2,589.63	84.85	31.519	
9,300.00	8,289.00	15,682.87	9,658.03	33.48	58.94	119.99	-1,505.01	-883.01	2,674.51	2,588.30	86.21	31.022	
9,400.00	8,289.00	15,769.72	9,657.05	33.77	59.47	119.98	-1,591.85	-881.99	2,673.28	2,586.12	87.16	30.670	
9,500.00	8,289.00	15,873.53	9,655.78	34.07	60.12	119.97	-1,695.65	-880.78	2,672.05	2,583.83	88.22	30.288	
9,600.00	8,289.00	15,968.34	9,654.50	34.38	60.71	119.95	-1,790.45	-879.84	2,670.90	2,581.65	89.25	29.928	
9,700.00	8,289.00	16,068.09	9,653.00	34.70	61.34	119.93	-1,890.18	-878.97	2,669.78	2,579.47	90.31	29.561	
9,800.00	8,289.00	16,164.38	9,651.96	35.04	61.94	119.91	-1,986.46	-878.12	2,668.86	2,577.48	91.37	29.208	
9,900.00	8,289.00	16,278.88	9,650.12	35.39	62.67	119.88	-2,100.94	-877.07	2,667.65	2,575.09	92.55	28.822	
10,000.00	8,289.00	16,377.20	9,648.61	35.75	63.30	119.86	-2,199.24	-875.73	2,666.08	2,572.43	93.66	28.466	
10,100.00	8,289.00	16,481.66	9,646.04	36.12	63.97	119.82	-2,303.67	-875.13	2,664.75	2,569.94	94.82	28.104	
10,200.00	8,289.00	16,596.08	9,643.40	36.51	64.70	119.78	-2,418.04	-873.66	2,662.86	2,566.82	96.04	27.726	
10,300.00	8,289.00	16,683.32	9,641.94	36.90	65.27	119.76	-2,505.26	-872.16	2,660.93	2,563.81	97.12	27.398	
10,400.00	8,289.00	16,765.18	9,641.33	37.31	65.80	119.76	-2,587.11	-870.91	2,659.62	2,561.45	98.17	27.091	
10,500.00	8,289.00	16,877.74	9,640.43	37.72	66.53	119.75	-2,699.65	-869.63	2,658.66	2,559.24	99.42	26.742	
10,600.00	8,289.00	16,958.95	9,639.31	38.15	67.06	119.74	-2,780.86	-868.79	2,657.48	2,556.99	100.49	26.445	
10,700.00	8,289.00	17,058.86	9,638.30	38.58	67.71	119.72	-2,880.76	-868.28	2,656.92	2,555.23	101.68	26.129	
10,800.00	8,289.00	17,191.02	9,634.45	39.03	68.58	119.65	-3,012.85	-867.73	2,655.47	2,552.37	103.10	25.757	
10,900.00	8,289.00	17,268.00	9,632.79	39.48	69.09	119.62	-3,089.81	-866.96	2,653.93	2,549.75	104.18	25.475	
11,000.00	8,289.00	17,347.59	9,632.48	39.94	69.62	119.62	-3,169.40	-866.11	2,653.20	2,547.93	105.27	25.204	
11,100.00	8,289.00	17,466.20	9,631.80	40.41	70.40	119.61	-3,288.00	-865.11	2,652.58	2,545.96	106.62	24.880	
11,200.00	8,289.00	17,549.00	9,631.58	40.89	70.95	119.61	-3,370.79	-864.35	2,652.01	2,544.27	107.75	24.614	
11,291.26	8,289.00	17,631.03	9,631.83	41.34	71.50	119.62	-3,452.83	-863.80	2,651.95	2,543.13	108.82	24.370	
11,300.00	8,289.00	17,639.51	9,631.84	41.38	71.55	119.62	-3,461.30	-863.76	2,651.96	2,543.03	108.93	24.346	
11,400.00	8,289.00	17,771.38	9,630.92	41.88	72.44	119.61	-3,593.16	-862.77	2,651.34	2,540.95	110.39	24.018	
11,500.00	8,289.00	17,891.74	9,629.49	42.38	73.24	119.59	-3,713.50	-860.83	2,649.73	2,537.95	111.79	23.704	
11,600.00	8,289.00	17,983.19	9,628.52	42.89	73.86	119.59	-3,804.92	-858.93	2,647.80	2,534.79	113.01	23.431	
11,700.00	8,289.00	18,087.59	9,627.36	43.41	74.56	119.58	-3,909.30	-857.29	2,646.27	2,531.96	114.31	23.149	
11,800.00	8,289.00	18,198.93	9,626.04	43.93	75.32	119.58	-4,020.61	-854.91	2,644.21	2,528.53	115.67	22.859	
11,900.00	8,289.00	18,300.04	9,624.72	44.46	76.00	119.57	-4,121.68	-852.57	2,641.94	2,524.96	116.98	22.585	
12,000.00	8,289.00	18,395.00	9,623.54	45.00	76.65	119.57	-4,216.61	-850.42	2,639.74	2,521.49	118.25	22.324	
12,100.00	8,289.00	18,489.00	9,622.39	45.55	77.29	119.56	-4,310.59	-848.55	2,637.79	2,518.27	119.52	22.070	
12,200.00	8,289.00	18,560.50	9,621.94	46.10	77.78	119.56	-4,382.08	-847.43	2,636.50	2,515.86	120.64	21.853	
12,300.00	8,289.00	18,677.60	9,622.49	46.65	78.58	119.59	-4,499.16	-845.51	2,635.74	2,513.67	122.07	21.592	
12,400.00	8,289.00	18,821.03	9,620.71	47.21	79.57	119.59	-4,642.52	-841.78	2,633.14	2,509.47	123.67	21.291	
12,500.00	8,289.00	18,917.58	9,618.74	47.78	80.23	119.57	-4,739.01	-839.09	2,630.10	2,505.11	124.99	21.043	
12,600.00	8,289.00	19,018.55	9,617.65	48.35	80.93	119.58	-4,839.92	-835.90	2,627.21	2,500.88	126.33	20.796	
12,688.51	8,289.00	19,087.65	9,616.15	48.86	81.41	119.57	-4,908.99	-834.13	2,624.69	2,497.29	127.40	20.602	
12,700.00	8,289.00	19,093.84	9,616.05	48.93	81.45	119.56	-4,915.17	-834.01	2,624.53	2,497.02	127.52	20.582	
12,702.52	8,289.00	19,095.20	9,616.02	48.95	81.46	119.56	-4,916.53	-833.99	2,624.53	2,496.98	127.54	20.577	CC, ES
12,750.00	8,289.00	19,120.71	9,615.71	49.23	81.64	119.63	-4,942.04	-833.59	2,626.34	2,498.30	128.04	20.511	
12,800.00	8,289.00	19,155.00	9,615.58	49.53	81.87	119.84	-4,976.33	-833.27	2,632.16	2,503.54	128.62	20.465	
12,850.00	8,289.00	19,187.82	9,615.44	49.84	82.10	120.22	-5,009.15	-833.20	2,641.80	2,512.61	129.19	20.449	
12,900.00	8,289.00	19,232.89	9,614.68	50.15	82.41	120.70	-5,054.21	-833.45	2,655.00	2,525.14	129.85	20.446	SF
12,950.00	8,289.00	19,285.17	9,613.21	50.47	82.77	121.28	-5,106.46	-834.07	2,671.59	2,541.02	130.57	20.461	
13,000.00	8,289.00	19,340.70	9,611.72	50.79	83.16	122.00	-5,161.97	-834.44	2,691.33	2,560.02	131.31	20.496	
13,050.00	8,289.00	19,384.62	9,610.76	51.10	83.47	122.98	-5,205.88	-834.50	2,714.18	2,582.22	131.96	20.568	
13,100.00	8,289.00	19,424.99	9,610.11	51.40	83.75	124.22	-5,246.24	-834.41	2,740.09	2,607.51	132.58	20.667	
13,150.00	8,289.00	19,430.00	9,610.03	51.70	83.78	126.11	-5,251.26	-834.40	2,769.13	2,636.20	132.92	20.832	
13,200.00	8,289.00	19,430.00	9,610.03	51.99	83.78	128.52	-5,251.26	-834.40	2,801.34	2,668.14	133.20	21.031	
13,250.00	8,289.00	19,430.00	9,610.03	52.26	83.78	131.50	-5,251.26	-834.40	2,836.41	2,702.97	133.44	21.255	
13,300.00	8,289.00	19,430.00	9,610.03	52.52	83.78	135.19	-5,251.26	-834.40	2,874.01	2,740.34	133.66	21.502	

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 3H
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 3H	**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
13,350.00	8,289.00	19,430.00	9,610.03	52.77	83.78	139.75	-5,251.26	-834.40	2,913.78	2,779.92	133.86	21.767	
13,400.00	8,289.00	19,430.00	9,610.03	53.00	83.78	145.37	-5,251.26	-834.40	2,955.39	2,821.35	134.04	22.049	
13,450.00	8,289.00	19,430.00	9,610.03	53.20	83.78	152.20	-5,251.26	-834.40	2,998.47	2,864.27	134.20	22.344	
13,500.00	8,289.00	19,430.00	9,610.03	53.39	83.78	160.36	-5,251.26	-834.40	3,042.67	2,908.33	134.34	22.649	
13,550.00	8,289.00	19,430.00	9,610.03	53.55	83.78	169.75	-5,251.26	-834.40	3,087.67	2,953.20	134.47	22.962	
13,600.00	8,289.00	19,430.00	9,610.03	53.69	83.78	179.97	-5,251.26	-834.40	3,133.12	2,998.54	134.59	23.280	
13,650.00	8,289.00	19,430.00	9,610.03	53.80	83.78	-169.63	-5,251.26	-834.40	3,178.71	3,044.02	134.69	23.600	
13,700.00	8,289.00	19,430.00	9,610.03	53.89	83.78	-159.77	-5,251.26	-834.40	3,224.13	3,089.35	134.79	23.920	
13,750.00	8,289.00	19,430.00	9,610.03	53.96	83.78	-150.98	-5,251.26	-834.40	3,269.09	3,134.22	134.87	24.239	
13,800.00	8,289.00	19,430.00	9,610.03	54.00	83.78	-143.49	-5,251.26	-834.40	3,313.30	3,178.36	134.94	24.553	
13,850.00	8,289.00	19,430.00	9,610.03	54.02	83.78	-137.26	-5,251.26	-834.40	3,356.51	3,221.50	135.01	24.861	
13,900.00	8,289.00	19,430.00	9,610.03	54.01	83.78	-132.15	-5,251.26	-834.40	3,398.47	3,263.40	135.07	25.162	
13,950.00	8,289.00	19,430.00	9,610.03	53.99	83.78	-127.97	-5,251.26	-834.40	3,438.94	3,303.82	135.11	25.453	
14,000.00	8,289.00	19,430.00	9,610.03	53.94	83.78	-124.55	-5,251.26	-834.40	3,477.70	3,342.56	135.15	25.733	
14,050.00	8,289.00	19,430.00	9,610.03	53.88	83.78	-121.74	-5,251.26	-834.40	3,514.56	3,379.39	135.17	26.001	
14,100.00	8,289.00	19,430.00	9,610.03	53.80	83.78	-119.42	-5,251.26	-834.40	3,549.34	3,414.15	135.19	26.255	
14,150.00	8,289.00	19,430.00	9,610.03	53.70	83.78	-117.50	-5,251.26	-834.40	3,581.85	3,446.66	135.19	26.495	
14,200.00	8,289.00	19,413.36	9,610.30	53.59	83.67	-115.82	-5,234.62	-834.43	3,611.90	3,476.86	135.04	26.747	
14,250.00	8,289.00	19,369.10	9,611.06	53.47	83.36	-114.34	-5,190.37	-834.50	3,639.02	3,504.36	134.66	27.024	
14,300.00	8,289.00	19,312.20	9,612.47	53.33	82.96	-113.13	-5,133.48	-834.29	3,662.84	3,528.67	134.17	27.300	
14,350.00	8,289.00	19,249.00	9,614.25	53.20	82.52	-112.18	-5,070.31	-833.65	3,683.06	3,549.42	133.63	27.561	
14,400.00	8,289.00	19,210.87	9,615.13	53.05	82.26	-111.49	-5,032.19	-833.28	3,699.70	3,566.38	133.31	27.752	
14,450.00	8,289.00	19,173.66	9,615.54	52.91	82.00	-110.98	-4,994.99	-833.20	3,712.83	3,579.83	133.01	27.914	
14,500.00	8,289.00	19,155.00	9,615.58	52.76	81.87	-110.62	-4,976.33	-833.27	3,722.45	3,589.59	132.86	28.018	
14,530.51	8,289.00	19,129.00	9,615.64	52.67	81.69	-110.47	-4,950.33	-833.49	3,726.54	3,593.89	132.65	28.093	
14,600.00	8,289.00	19,096.36	9,616.01	52.46	81.47	-110.38	-4,917.70	-833.96	3,733.73	3,601.34	132.39	28.203	
14,700.00	8,289.00	19,036.68	9,617.31	52.18	81.05	-110.30	-4,858.05	-835.39	3,741.34	3,609.43	131.92	28.362	
14,762.01	8,289.00	18,975.86	9,618.18	52.01	80.63	-110.28	-4,797.26	-837.22	3,744.03	3,612.59	131.44	28.484	
14,800.00	8,289.00	18,937.70	9,618.49	51.90	80.37	-110.28	-4,759.12	-838.47	3,745.15	3,614.00	131.15	28.556	
14,900.00	8,289.00	18,836.67	9,620.35	51.64	79.67	-110.29	-4,658.15	-841.36	3,748.06	3,617.67	130.39	28.746	
15,000.00	8,289.00	18,703.35	9,622.66	51.38	78.76	-110.31	-4,524.90	-844.84	3,750.75	3,621.36	129.39	28.987	
15,100.00	8,289.00	18,559.83	9,621.94	51.14	77.78	-110.29	-4,381.40	-847.44	3,751.74	3,623.41	128.33	29.235	
15,200.00	8,289.00	18,489.00	9,622.39	50.90	77.29	-110.29	-4,310.59	-848.55	3,753.00	3,625.16	127.84	29.358	
15,300.00	8,289.00	18,404.37	9,623.42	50.66	76.71	-110.30	-4,225.98	-850.21	3,754.85	3,627.60	127.25	29.508	
15,400.00	8,289.00	18,310.87	9,624.58	50.44	76.08	-110.30	-4,132.51	-852.32	3,756.98	3,630.38	126.60	29.675	
15,500.00	8,289.00	18,210.70	9,625.88	50.23	75.40	-110.31	-4,032.37	-854.64	3,759.19	3,633.27	125.92	29.853	
15,600.00	8,289.00	18,095.85	9,627.27	50.02	74.62	-110.32	-3,917.56	-857.13	3,761.24	3,636.09	125.15	30.054	
15,700.00	8,289.00	17,985.94	9,628.49	49.82	73.88	-110.33	-3,807.67	-858.88	3,762.69	3,638.27	124.43	30.240	
15,800.00	8,289.00	17,902.44	9,629.38	49.64	73.32	-110.34	-3,724.19	-860.61	3,764.57	3,640.66	123.90	30.383	
15,900.00	8,289.00	17,766.36	9,630.99	49.46	72.40	-110.35	-3,588.14	-862.83	3,766.11	3,643.08	123.02	30.613	
16,000.00	8,289.00	17,629.32	9,631.82	49.29	71.49	-110.36	-3,451.11	-863.81	3,766.56	3,644.41	122.15	30.837	
16,100.00	8,289.00	17,549.00	9,631.58	49.13	70.95	-110.36	-3,370.79	-864.35	3,766.71	3,645.02	121.69	30.954	
16,200.00	8,289.00	17,470.36	9,631.73	48.98	70.43	-110.36	-3,292.16	-865.06	3,767.28	3,646.03	121.25	31.070	
16,300.00	8,289.00	17,341.64	9,632.48	48.84	69.58	-110.37	-3,163.45	-866.15	3,767.83	3,647.35	120.48	31.273	
16,400.00	8,289.00	17,268.00	9,632.79	48.71	69.09	-110.37	-3,089.81	-866.96	3,768.57	3,648.47	120.10	31.378	
16,500.00	8,289.00	17,188.32	9,634.49	48.59	68.56	-110.39	-3,010.16	-867.76	3,769.86	3,650.16	119.69	31.496	
16,600.00	8,289.00	17,045.57	9,638.49	48.48	67.62	-110.45	-2,867.47	-868.34	3,770.76	3,651.88	118.89	31.718	
16,700.00	8,289.00	16,953.08	9,639.37	48.38	67.02	-110.46	-2,774.99	-868.84	3,771.21	3,652.79	118.42	31.847	
16,800.00	8,289.00	16,874.65	9,640.48	48.29	66.51	-110.47	-2,696.57	-869.67	3,772.26	3,654.20	118.05	31.954	
16,900.00	8,289.00	16,763.76	9,641.33	48.21	65.79	-110.48	-2,585.69	-870.92	3,773.16	3,655.67	117.49	32.115	
17,000.00	8,289.00	16,686.36	9,641.90	48.15	65.29	-110.48	-2,508.30	-872.10	3,774.43	3,657.28	117.15	32.219	
17,100.00	8,289.00	16,599.92	9,643.32	48.09	64.73	-110.50	-2,421.89	-873.59	3,776.20	3,659.43	116.76	32.341	

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 3H
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 3H	**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
17,200.00	8,289.00	16,471.87	9,646.29	48.05	63.90	-110.54	-2,293.88	-875.21	3,777.79	3,661.65	116.14	32.528	
17,300.00	8,289.00	16,372.72	9,648.70	48.01	63.27	-110.57	-2,194.76	-875.78	3,778.77	3,663.06	115.71	32.658	
17,400.00	8,289.00	16,275.98	9,650.17	47.99	62.65	-110.58	-2,098.04	-877.11	3,780.18	3,664.88	115.30	32.786	
17,500.00	8,289.00	16,156.89	9,652.04	47.99	61.90	-110.61	-1,978.97	-878.19	3,781.16	3,666.39	114.77	32.945	
17,600.00	8,289.00	16,062.17	9,653.08	47.99	61.30	-110.62	-1,884.26	-879.02	3,781.97	3,667.57	114.40	33.059	
17,700.00	8,289.00	15,961.41	9,654.60	48.01	60.67	-110.64	-1,783.52	-879.90	3,782.90	3,668.89	114.01	33.181	
17,800.00	8,289.00	15,871.17	9,655.81	48.04	60.10	-110.65	-1,693.29	-880.81	3,783.91	3,670.22	113.69	33.284	
17,900.00	8,289.00	15,764.85	9,657.11	48.08	59.44	-110.67	-1,586.98	-882.04	3,785.01	3,671.73	113.29	33.411	
18,000.00	8,289.00	15,639.89	9,658.47	48.14	58.67	-110.68	-1,462.04	-883.34	3,786.03	3,673.24	112.79	33.566	
18,100.00	8,289.00	15,484.22	9,659.18	48.21	57.72	-110.70	-1,306.37	-883.08	3,785.63	3,673.49	112.14	33.758	
18,200.00	8,289.00	15,419.01	9,658.90	48.29	57.32	-110.70	-1,241.17	-882.98	3,784.94	3,672.93	112.01	33.791	
18,300.00	8,289.00	15,276.75	9,659.55	48.39	56.46	-110.71	-1,098.91	-882.55	3,784.51	3,673.05	111.47	33.952	
18,400.00	8,289.00	15,179.95	9,659.75	48.50	55.89	-110.72	-1,002.12	-881.45	3,783.11	3,671.92	111.19	34.023	
18,500.00	8,289.00	15,108.00	9,660.12	48.63	55.46	-110.73	-930.17	-880.94	3,782.23	3,671.16	111.06	34.055	
18,600.00	8,289.00	15,021.92	9,660.93	48.76	54.95	-110.75	-844.10	-880.66	3,781.85	3,670.98	110.87	34.111	
18,700.00	8,289.00	14,891.52	9,662.55	48.92	54.18	-110.78	-713.71	-879.60	3,781.06	3,670.60	110.46	34.230	
18,800.00	8,289.00	14,796.53	9,663.52	49.08	53.63	-110.80	-618.73	-878.93	3,780.34	3,670.10	110.25	34.290	
18,900.00	8,289.00	14,683.77	9,663.80	49.26	52.97	-110.81	-505.98	-877.84	3,779.09	3,669.14	109.95	34.371	
19,000.00	8,289.00	14,595.35	9,663.72	49.46	52.47	-110.81	-417.56	-877.38	3,778.16	3,668.37	109.79	34.413	
19,100.00	8,289.00	14,492.63	9,663.70	50.02	51.89	-110.82	-314.84	-876.89	3,777.29	3,667.91	109.38	34.535	
19,101.33	8,289.00	14,491.22	9,663.70	50.05	51.88	-110.82	-313.43	-876.88	3,777.28	3,667.91	109.37	34.536	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 201-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	29.14	29.14	0.00	0.05	1.24	4,644.35	100.39	4,645.44				
100.00	100.00	119.08	119.08	0.28	0.19	1.24	4,644.51	100.37	4,645.61	4,645.15	0.47	9,987.396	
200.00	200.00	209.06	209.05	0.63	0.35	1.24	4,644.87	100.33	4,646.01	4,645.03	0.98	4,728.704	
300.00	300.00	300.00	300.00	0.99	0.67	1.24	4,645.42	100.15	4,646.62	4,644.95	1.67	2,787.775	
400.00	400.00	389.00	388.99	1.35	0.99	1.23	4,646.20	99.74	4,647.48	4,645.13	2.34	1,982.744	
500.00	500.00	460.99	460.98	1.71	1.25	1.22	4,647.13	99.20	4,648.74	4,645.78	2.96	1,570.300	
600.00	600.00	630.50	630.47	2.07	1.85	1.22	4,648.46	98.91	4,649.52	4,645.60	3.92	1,187.503	
700.00	700.00	760.72	760.69	2.43	2.29	1.23	4,648.34	99.50	4,649.49	4,644.78	4.72	986.045	
800.00	800.00	896.63	896.58	2.79	2.75	1.21	4,646.60	97.98	4,648.08	4,642.54	5.54	839.663	
900.00	900.00	993.85	993.77	3.14	3.09	1.19	4,645.41	96.16	4,646.81	4,640.58	6.23	745.755	
1,000.00	1,000.00	1,088.28	1,088.17	3.50	3.42	1.16	4,644.21	93.96	4,645.49	4,638.57	6.92	671.362	
1,100.00	1,100.00	1,174.92	1,174.80	3.86	3.72	1.14	4,643.32	92.54	4,644.43	4,636.85	7.58	612.551	
1,200.00	1,200.00	1,276.00	1,275.86	4.22	4.08	1.13	4,642.48	91.36	4,643.59	4,635.29	8.30	559.727	
1,300.00	1,300.00	1,382.93	1,382.79	4.58	4.46	1.11	4,641.40	90.04	4,642.55	4,633.52	9.03	514.034	
1,400.00	1,400.00	1,469.27	1,469.12	4.94	4.76	1.10	4,640.57	89.30	4,641.57	4,631.88	9.69	478.859	
1,500.00	1,500.00	1,556.07	1,555.91	5.29	5.06	1.10	4,640.02	89.48	4,640.94	4,630.59	10.35	448.296	
1,600.00	1,600.00	1,662.12	1,661.95	5.65	5.42	1.12	4,639.47	90.45	4,640.45	4,629.37	11.08	418.958	
1,700.00	1,700.00	1,820.06	1,819.87	6.01	5.97	1.14	4,637.56	92.54	4,639.31	4,627.33	11.98	387.220	
1,800.00	1,800.00	1,967.28	1,967.03	6.37	6.49	1.16	4,633.88	93.92	4,636.79	4,623.93	12.85	360.754	
1,900.00	1,899.98	2,043.64	2,043.35	6.72	6.76	-103.60	4,631.81	95.30	4,634.53	4,621.06	13.47	344.080	
1,995.99	1,995.84	2,092.69	2,092.38	7.04	6.93	-103.63	4,630.79	96.35	4,633.81	4,619.85	13.97	331.757	
2,000.00	1,999.84	2,094.34	2,094.03	7.06	6.93	-103.63	4,630.77	96.37	4,633.82	4,619.84	13.99	331.298	
2,100.00	2,099.45	2,159.00	2,158.69	7.40	7.16	-103.68	4,630.55	96.58	4,635.33	4,620.78	14.55	318.493	
2,200.00	2,198.70	2,199.88	2,199.56	7.74	7.30	-103.68	4,630.83	96.31	4,638.54	4,623.50	15.04	308.442	
2,300.00	2,297.47	2,321.43	2,321.12	8.09	7.72	-103.83	4,631.50	96.38	4,642.89	4,627.08	15.81	293.742	
2,400.00	2,395.62	2,471.64	2,471.31	8.44	8.24	-104.07	4,630.80	98.17	4,647.07	4,630.39	16.68	278.632	
2,491.84	2,485.13	2,545.48	2,545.14	8.76	8.50	-104.18	4,630.20	97.85	4,651.44	4,634.18	17.26	269.484	
2,500.00	2,493.06	2,551.46	2,551.13	8.79	8.53	-104.20	4,630.16	97.80	4,651.88	4,634.57	17.31	268.733	
2,600.00	2,590.16	2,636.15	2,635.80	9.14	8.82	-104.46	4,629.83	96.53	4,657.55	4,639.59	17.96	259.298	
2,700.00	2,687.25	2,742.45	2,742.00	9.50	9.20	-104.81	4,629.40	92.00	4,663.37	4,644.68	18.69	249.479	
2,800.00	2,784.35	2,831.00	2,830.30	9.86	9.51	-105.14	4,628.96	85.35	4,669.31	4,649.94	19.36	241.146	
2,900.00	2,881.45	2,907.03	2,905.94	10.23	9.77	-105.45	4,628.76	77.71	4,675.71	4,655.72	19.99	233.886	
3,000.00	2,978.55	2,982.99	2,981.31	10.60	10.04	-105.78	4,628.84	68.23	4,682.74	4,662.12	20.62	227.084	
3,100.00	3,075.65	3,062.59	3,060.01	10.96	10.32	-106.14	4,629.13	56.39	4,690.36	4,669.09	21.27	220.564	
3,200.00	3,172.74	3,145.33	3,141.49	11.34	10.61	-106.54	4,629.54	41.97	4,698.49	4,676.57	21.92	214.324	
3,300.00	3,269.84	3,229.77	3,224.20	11.71	10.91	-106.97	4,629.99	25.05	4,707.13	4,684.54	22.59	208.398	
3,400.00	3,366.94	3,322.27	3,314.49	12.08	11.23	-107.46	4,630.46	4.90	4,716.20	4,692.91	23.28	202.553	
3,500.00	3,464.04	3,436.35	3,425.61	12.46	11.64	-108.08	4,630.62	-20.90	4,725.41	4,701.35	24.06	196.375	
3,600.00	3,561.14	3,575.26	3,561.26	12.83	12.14	-108.81	4,629.89	-50.78	4,734.36	4,709.42	24.94	189.843	
3,700.00	3,658.24	3,661.70	3,645.74	13.21	12.45	-109.25	4,628.95	-69.09	4,743.15	4,717.53	25.62	185.115	
3,800.00	3,755.33	3,762.71	3,744.02	13.59	12.82	-109.80	4,627.68	-92.35	4,752.35	4,725.99	26.36	180.262	
3,900.00	3,852.43	3,870.00	3,848.04	13.97	13.21	-110.39	4,625.57	-118.56	4,761.43	4,734.30	27.13	175.497	
4,000.00	3,949.53	3,930.92	3,907.01	14.35	13.44	-110.73	4,624.38	-133.80	4,771.10	4,743.38	27.72	172.087	
4,100.00	4,046.63	3,964.00	3,939.06	14.73	13.56	-110.91	4,624.01	-141.98	4,782.02	4,753.81	28.21	169.520	
4,200.00	4,143.73	4,029.60	4,002.69	15.11	13.80	-111.27	4,623.84	-157.95	4,793.99	4,765.18	28.82	166.354	
4,300.00	4,240.82	4,092.02	4,063.31	15.50	14.03	-111.60	4,624.32	-172.79	4,807.10	4,777.68	29.41	163.433	
4,400.00	4,337.92	4,177.45	4,146.41	15.88	14.35	-112.05	4,625.27	-192.56	4,820.85	4,790.75	30.10	160.159	
4,500.00	4,435.02	4,281.08	4,247.42	16.27	14.73	-112.59	4,626.39	-215.74	4,834.85	4,803.99	30.86	156.659	
4,600.00	4,532.12	4,379.58	4,343.34	16.65	15.10	-113.10	4,627.13	-238.07	4,848.98	4,817.38	31.60	153.426	
4,700.00	4,629.22	4,479.17	4,440.24	17.04	15.47	-113.61	4,627.67	-261.08	4,863.38	4,831.02	32.35	150.320	
4,800.00	4,726.31	4,558.23	4,517.08	17.42	15.76	-114.03	4,627.86	-279.67	4,877.98	4,844.96	33.02	147.733	
4,900.00	4,823.41	4,625.00	4,582.05	17.81	16.01	-114.37	4,628.59	-295.06	4,893.55	4,859.92	33.63	145.500	

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 3H
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 3H	**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
5,000.00	4,920.51	4,686.22	4,641.68	18.20	16.24	-114.68	4,629.64	-308.87	4,909.94	4,875.72	34.22	143.474	
5,100.00	5,017.61	4,817.91	4,770.17	18.58	16.74	-115.33	4,631.75	-337.70	4,926.56	4,891.46	35.11	140.325	
5,200.00	5,114.71	4,939.97	4,889.60	18.97	17.19	-115.91	4,632.95	-362.81	4,942.67	4,906.72	35.95	137.473	
5,300.00	5,211.80	5,036.05	4,983.82	19.36	17.55	-116.36	4,633.66	-381.63	4,958.68	4,921.99	36.69	135.149	
5,400.00	5,308.90	5,114.08	5,060.33	19.75	17.85	-116.72	4,634.38	-396.96	4,975.17	4,937.81	37.35	133.200	
5,500.00	5,406.00	14,644.00	9,860.80	20.14	52.75	170.34	-166.15	-1,537.30	4,991.13	4,937.45	53.67	92.989	
5,600.00	5,503.10	14,644.00	9,860.80	20.53	52.75	170.34	-166.15	-1,537.30	4,916.30	4,862.19	54.12	90.848	
5,700.00	5,600.20	14,646.32	9,860.80	20.91	52.76	170.30	-168.47	-1,537.35	4,842.38	4,787.80	54.59	88.709	
5,800.00	5,697.30	14,654.84	9,860.79	21.30	52.81	170.15	-176.99	-1,537.52	4,769.41	4,714.30	55.11	86.538	
5,900.00	5,794.39	14,663.44	9,860.79	21.69	52.85	170.00	-185.58	-1,537.69	4,697.42	4,641.77	55.66	84.398	
6,000.00	5,891.49	14,672.10	9,860.78	22.09	52.90	169.85	-194.24	-1,537.84	4,626.47	4,570.25	56.22	82.290	
6,100.00	5,988.59	14,680.83	9,860.78	22.48	52.95	169.70	-202.97	-1,537.99	4,556.59	4,499.78	56.80	80.216	
6,200.00	6,085.69	14,689.64	9,860.77	22.87	52.99	169.55	-211.78	-1,538.13	4,487.84	4,430.43	57.41	78.176	
6,300.00	6,182.79	14,698.52	9,860.76	23.26	53.04	169.39	-220.66	-1,538.26	4,420.27	4,362.24	58.03	76.171	
6,400.00	6,279.88	14,707.48	9,860.76	23.65	53.09	169.24	-229.61	-1,538.38	4,353.94	4,295.27	58.68	74.202	
6,500.00	6,376.98	14,716.51	9,860.75	24.04	53.14	169.08	-238.64	-1,538.49	4,288.91	4,229.56	59.34	72.272	
6,600.00	6,474.08	14,725.61	9,860.74	24.43	53.19	168.92	-247.75	-1,538.59	4,225.23	4,165.19	60.03	70.379	
6,700.00	6,571.18	14,734.79	9,860.73	24.82	53.24	168.76	-256.93	-1,538.68	4,162.96	4,102.21	60.75	68.527	
6,800.00	6,668.28	14,745.64	9,860.72	25.22	53.30	168.57	-267.78	-1,538.77	4,102.17	4,040.68	61.50	66.707	
6,900.00	6,765.37	14,757.43	9,860.70	25.61	53.36	168.37	-279.57	-1,538.84	4,042.93	3,980.66	62.27	64.925	
7,000.00	6,862.47	14,769.31	9,860.68	26.00	53.43	168.16	-291.44	-1,538.89	3,985.30	3,922.23	63.07	63.189	
7,100.00	6,959.57	14,781.28	9,860.66	26.39	53.49	167.95	-303.41	-1,538.92	3,929.35	3,865.45	63.89	61.499	
7,200.00	7,056.67	14,793.34	9,860.64	26.78	53.56	167.74	-315.48	-1,538.92	3,875.15	3,810.41	64.74	59.857	
7,300.00	7,153.77	14,805.51	9,860.61	27.18	53.62	167.53	-327.64	-1,538.90	3,822.79	3,757.17	65.61	58.263	
7,400.00	7,250.86	14,817.77	9,860.58	27.57	53.69	167.32	-339.90	-1,538.85	3,772.33	3,705.82	66.51	56.720	
7,500.00	7,347.96	14,830.12	9,860.54	27.96	53.76	167.10	-352.26	-1,538.78	3,723.85	3,656.42	67.43	55.228	
7,600.00	7,445.06	14,842.58	9,860.51	28.36	53.83	166.88	-364.72	-1,538.68	3,677.43	3,609.06	68.37	53.789	
7,700.00	7,542.16	14,818.40	9,860.57	28.75	53.70	167.30	-340.53	-1,538.76	3,633.16	3,563.99	69.17	52.524	
7,800.00	7,639.26	14,847.84	9,860.49	29.14	53.86	166.79	-369.97	-1,538.65	3,591.14	3,520.91	70.23	51.135	
7,900.00	7,736.36	14,853.41	9,860.48	29.54	53.89	166.69	-375.55	-1,538.61	3,551.42	3,480.22	71.20	49.878	
7,902.86	7,739.13	14,853.57	9,860.48	29.55	53.89	166.69	-375.70	-1,538.61	3,550.32	3,479.09	71.23	49.843	
7,950.00	7,784.76	14,858.00	9,860.46	29.73	53.91	151.46	-380.13	-1,538.58	3,532.39	3,460.69	71.71	49.263	
8,000.00	7,832.63	14,866.61	9,860.44	29.93	53.96	139.72	-388.74	-1,538.52	3,513.92	3,441.69	72.23	48.647	
8,050.00	7,879.58	14,879.18	9,860.41	30.12	54.03	131.97	-401.32	-1,538.44	3,496.13	3,423.35	72.78	48.036	
8,100.00	7,925.27	14,895.63	9,860.37	30.31	54.12	126.95	-417.76	-1,538.33	3,479.12	3,405.77	73.35	47.434	
8,150.00	7,969.35	14,915.82	9,860.33	30.49	54.23	123.65	-437.96	-1,538.21	3,462.97	3,389.04	73.92	46.845	
8,200.00	8,011.47	14,993.08	9,860.27	30.67	54.66	120.70	-515.21	-1,537.10	3,447.63	3,372.91	74.72	46.141	
8,250.00	8,051.32	15,006.24	9,860.31	30.83	54.73	119.46	-528.35	-1,536.59	3,432.83	3,357.57	75.25	45.617	
8,300.00	8,088.60	15,048.52	9,860.32	30.99	54.97	118.35	-570.62	-1,535.54	3,419.02	3,343.13	75.89	45.053	
8,350.00	8,123.02	15,067.12	9,860.27	31.14	55.07	117.88	-589.22	-1,535.20	3,406.37	3,329.95	76.42	44.574	
8,400.00	8,154.32	15,087.11	9,860.19	31.28	55.18	117.62	-609.21	-1,534.98	3,394.91	3,317.97	76.94	44.124	
8,450.00	8,182.27	15,113.00	9,860.01	31.42	55.33	117.44	-635.10	-1,534.91	3,384.71	3,307.24	77.47	43.693	
8,500.00	8,206.64	15,144.44	9,859.76	31.54	55.50	117.33	-666.54	-1,534.99	3,375.71	3,297.72	77.99	43.283	
8,550.00	8,227.26	15,186.01	9,859.51	31.66	55.74	117.25	-708.11	-1,535.11	3,367.81	3,289.28	78.53	42.884	
8,600.00	8,243.96	15,225.19	9,859.33	31.78	55.96	117.26	-747.29	-1,535.25	3,361.01	3,281.97	79.04	42.524	
8,621.67	8,249.95	15,240.87	9,859.29	31.83	56.05	117.29	-762.97	-1,535.33	3,358.43	3,279.19	79.24	42.381	
8,700.00	8,267.63	15,301.00	9,859.20	32.00	56.39	117.41	-823.09	-1,535.85	3,350.99	3,271.01	79.97	41.901	
8,800.00	8,282.55	15,350.46	9,859.30	32.23	56.68	117.51	-872.54	-1,536.73	3,346.09	3,265.34	80.75	41.437	
8,900.00	8,288.79	15,564.23	9,859.51	32.46	57.91	117.37	-1,086.27	-1,539.41	3,345.33	3,263.16	82.16	40.715	
8,921.67	8,289.00	15,599.47	9,859.43	32.51	58.12	117.38	-1,121.51	-1,538.96	3,345.05	3,262.63	82.41	40.588	
9,000.00	8,289.00	15,648.20	9,859.53	32.69	58.40	117.38	-1,170.23	-1,538.49	3,344.69	3,261.68	83.01	40.294	
9,015.63	8,289.00	15,659.72	9,859.59	32.73	58.47	117.38	-1,181.75	-1,538.40	3,344.67	3,261.53	83.13	40.232	

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 3H
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 3H	**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
9,100.00	8,289.00	15,721.34	9,860.00	32.94	58.83	117.39	-1,243.37	-1,538.11	3,344.91	3,261.09	83.82	39.907	
9,200.00	8,289.00	15,886.24	9,860.13	33.20	59.81	117.39	-1,408.26	-1,537.33	3,345.15	3,260.10	85.04	39.334	
9,300.00	8,289.00	15,973.78	9,859.34	33.48	60.33	117.38	-1,495.79	-1,536.25	3,344.03	3,258.07	85.96	38.901	
9,400.00	8,289.00	16,118.28	9,857.86	33.77	61.20	117.37	-1,640.26	-1,533.94	3,342.58	3,255.43	87.15	38.355	
9,500.00	8,289.00	16,239.00	9,856.10	34.07	61.93	117.37	-1,760.91	-1,530.50	3,339.72	3,251.47	88.25	37.844	
9,600.00	8,289.00	16,287.49	9,856.13	34.38	62.23	117.38	-1,809.39	-1,529.33	3,337.80	3,248.76	89.04	37.486	
9,700.00	8,289.00	16,351.89	9,855.88	34.70	62.62	117.38	-1,873.78	-1,528.56	3,336.97	3,247.06	89.91	37.113	
9,723.32	8,289.00	16,365.93	9,855.79	34.78	62.71	117.38	-1,887.81	-1,528.53	3,336.94	3,246.82	90.12	37.029	
9,800.00	8,289.00	16,427.00	9,855.19	35.04	63.08	117.36	-1,948.88	-1,528.99	3,337.34	3,246.49	90.85	36.734	
9,900.00	8,289.00	16,709.00	9,844.53	35.39	64.84	117.19	-2,230.50	-1,529.33	3,337.97	3,245.15	92.81	35.965	
10,000.00	8,289.00	16,750.85	9,843.25	35.75	65.10	117.18	-2,272.30	-1,527.76	3,333.76	3,240.11	93.65	35.599	
10,100.00	8,289.00	16,803.00	9,842.00	36.12	65.43	117.16	-2,324.43	-1,527.08	3,331.59	3,237.07	94.53	35.245	
10,200.00	8,289.00	16,844.29	9,841.23	36.51	65.69	117.15	-2,365.71	-1,527.18	3,330.95	3,235.60	95.35	34.933	
10,204.76	8,289.00	16,847.84	9,841.17	36.53	65.71	117.15	-2,369.26	-1,527.19	3,330.95	3,235.55	95.40	34.916	
10,300.00	8,289.00	16,927.38	9,840.01	36.90	66.21	117.12	-2,448.79	-1,527.74	3,331.26	3,234.87	96.39	34.559	
10,400.00	8,289.00	17,015.85	9,839.07	37.31	66.77	117.10	-2,537.25	-1,528.32	3,331.77	3,234.30	97.47	34.182	
10,500.00	8,289.00	17,085.00	9,839.94	37.72	67.21	117.11	-2,606.39	-1,528.63	3,333.11	3,234.66	98.45	33.857	
10,600.00	8,289.00	17,300.43	9,841.07	38.15	68.59	117.14	-2,821.79	-1,526.06	3,332.18	3,231.97	100.20	33.254	
10,700.00	8,289.00	17,413.06	9,838.52	38.58	69.31	117.10	-2,934.37	-1,525.01	3,330.76	3,229.31	101.45	32.832	
10,800.00	8,289.00	17,499.59	9,837.14	39.03	69.87	117.09	-3,020.85	-1,523.01	3,328.43	3,225.87	102.57	32.452	
10,900.00	8,289.00	17,555.00	9,837.78	39.48	70.22	117.11	-3,076.25	-1,522.34	3,327.89	3,224.37	103.52	32.147	
10,910.80	8,289.00	17,555.00	9,837.78	39.53	70.22	117.11	-3,076.25	-1,522.34	3,327.87	3,224.28	103.59	32.125	
11,000.00	8,289.00	17,630.75	9,838.61	39.94	70.71	117.12	-3,151.99	-1,521.90	3,328.18	3,223.59	104.59	31.822	
11,100.00	8,289.00	17,743.00	9,840.82	40.41	71.44	117.17	-3,264.18	-1,519.53	3,327.49	3,221.64	105.85	31.435	
11,133.78	8,289.00	17,777.09	9,841.98	40.57	71.67	117.19	-3,298.24	-1,518.60	3,327.34	3,221.08	106.26	31.312	
11,133.78	8,289.00	17,777.09	9,841.98	40.57	71.67	117.19	-3,298.24	-1,518.60	3,327.34	3,221.08	106.26	31.312	
11,200.00	8,289.00	17,812.31	9,842.58	40.89	71.90	117.20	-3,333.45	-1,518.32	3,327.65	3,220.75	106.89	31.130	
11,300.00	8,289.00	17,920.62	9,842.39	41.38	72.60	117.19	-3,441.75	-1,519.36	3,328.84	3,220.67	108.17	30.773	
11,400.00	8,289.00	18,002.05	9,842.60	41.88	73.14	117.19	-3,523.18	-1,519.69	3,329.73	3,220.43	109.30	30.464	
11,500.00	8,289.00	18,077.71	9,843.36	42.38	73.64	117.19	-3,598.84	-1,520.32	3,331.33	3,220.93	110.40	30.176	
11,600.00	8,289.00	18,171.16	9,843.96	42.89	74.25	117.18	-3,692.27	-1,521.94	3,333.55	3,221.94	111.61	29.868	
11,700.00	8,289.00	18,279.05	9,844.59	43.41	74.96	117.18	-3,800.15	-1,523.58	3,335.55	3,222.64	112.92	29.540	
11,800.00	8,289.00	18,376.32	9,845.03	43.93	75.61	117.17	-3,897.40	-1,525.04	3,337.50	3,223.33	114.17	29.234	
11,900.00	8,289.00	18,529.05	9,846.22	44.46	76.62	117.17	-4,050.12	-1,526.28	3,339.10	3,223.34	115.76	28.845	
12,000.00	8,289.00	18,774.03	9,846.90	45.00	78.27	117.22	-4,294.98	-1,520.49	3,337.74	3,219.91	117.83	28.326	
12,100.00	8,289.00	18,862.68	9,845.14	45.55	78.86	117.21	-4,383.54	-1,517.26	3,333.99	3,214.92	119.07	27.999	
12,200.00	8,289.00	18,967.82	9,846.18	46.10	79.57	117.27	-4,488.55	-1,511.97	3,330.36	3,209.97	120.39	27.662	
12,300.00	8,289.00	19,058.00	9,847.03	46.65	80.17	117.32	-4,578.60	-1,507.29	3,326.59	3,204.95	121.64	27.347	
12,400.00	8,289.00	19,113.29	9,847.65	47.21	80.55	117.34	-4,633.83	-1,504.88	3,323.72	3,201.01	122.71	27.086	
12,500.00	8,289.00	19,171.05	9,848.38	47.78	80.94	117.36	-4,691.57	-1,503.42	3,322.38	3,198.59	123.78	26.840	
12,600.00	8,289.00	19,246.00	9,849.17	48.35	81.45	117.38	-4,766.51	-1,502.06	3,321.71	3,196.76	124.95	26.584	
12,650.04	8,289.00	19,294.08	9,849.59	48.64	81.77	117.39	-4,814.58	-1,501.45	3,321.55	3,195.95	125.60	26.445	CC
12,688.51	8,289.00	19,320.52	9,849.82	48.86	81.95	117.40	-4,841.02	-1,501.26	3,321.62	3,195.58	126.04	26.354	
12,700.00	8,289.00	19,340.00	9,849.99	48.93	82.09	117.40	-4,860.50	-1,501.19	3,321.79	3,195.55	126.24	26.313	ES
12,750.00	8,289.00	19,361.74	9,850.18	49.23	82.23	117.52	-4,882.24	-1,501.20	3,324.78	3,198.05	126.73	26.235	
12,800.00	8,289.00	19,394.23	9,850.44	49.53	82.45	117.79	-4,914.73	-1,501.36	3,331.67	3,204.38	127.30	26.173	
12,850.00	8,289.00	19,434.00	9,850.74	49.84	82.73	118.20	-4,954.49	-1,501.83	3,342.41	3,214.50	127.91	26.131	SF
12,900.00	8,289.00	19,461.64	9,850.96	50.15	82.91	118.80	-4,982.13	-1,502.28	3,356.85	3,228.40	128.44	26.135	
12,950.00	8,289.00	19,497.44	9,851.30	50.47	83.16	119.57	-5,017.92	-1,502.94	3,374.86	3,245.83	129.03	26.155	
13,000.00	8,289.00	19,529.00	9,851.65	50.79	83.37	120.56	-5,049.47	-1,503.60	3,396.32	3,266.74	129.58	26.209	
13,050.00	8,289.00	19,559.65	9,851.96	51.10	83.58	121.79	-5,080.10	-1,504.37	3,421.10	3,290.98	130.12	26.291	
13,100.00	8,289.00	19,586.05	9,852.15	51.40	83.76	123.32	-5,106.50	-1,505.19	3,449.05	3,318.43	130.62	26.404	

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 3H
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 3H	**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
13,150.00	8,289.00	19,622.00	9,852.30	51.70	84.01	125.11	-5,142.42	-1,506.54	3,479.99	3,348.81	131.19	26.527	
13,200.00	8,289.00	19,622.00	9,852.30	51.99	84.01	127.66	-5,142.42	-1,506.54	3,513.65	3,382.19	131.46	26.728	
13,250.00	8,289.00	19,646.57	9,852.38	52.26	84.18	130.49	-5,166.96	-1,507.62	3,549.83	3,417.92	131.91	26.911	
13,300.00	8,289.00	19,660.60	9,852.45	52.52	84.27	134.11	-5,180.98	-1,508.31	3,588.30	3,456.04	132.26	27.131	
13,350.00	8,289.00	19,672.59	9,852.51	52.77	84.35	138.60	-5,192.95	-1,508.93	3,628.74	3,496.17	132.57	27.371	
13,400.00	8,289.00	19,682.46	9,852.57	53.00	84.42	144.15	-5,202.81	-1,509.47	3,670.87	3,538.02	132.85	27.631	
13,450.00	8,289.00	19,709.00	9,852.75	53.20	84.60	150.46	-5,229.30	-1,511.03	3,714.47	3,581.22	133.25	27.875	
13,500.00	8,289.00	19,709.00	9,852.75	53.39	84.60	158.79	-5,229.30	-1,511.03	3,759.00	3,625.58	133.42	28.175	
13,550.00	8,289.00	19,709.00	9,852.75	53.55	84.60	168.47	-5,229.30	-1,511.03	3,804.31	3,670.75	133.56	28.484	
13,600.00	8,289.00	19,709.00	9,852.75	53.69	84.60	179.08	-5,229.30	-1,511.03	3,850.07	3,716.38	133.69	28.799	
13,650.00	8,289.00	19,709.00	9,852.75	53.80	84.60	-170.09	-5,229.30	-1,511.03	3,895.95	3,762.16	133.79	29.119	
13,700.00	8,289.00	19,709.00	9,852.75	53.89	84.60	-159.84	-5,229.30	-1,511.03	3,941.66	3,807.77	133.89	29.440	
13,750.00	8,289.00	19,709.00	9,852.75	53.96	84.60	-150.77	-5,229.30	-1,511.03	3,986.89	3,852.93	133.96	29.761	
13,800.00	8,289.00	19,684.83	9,852.58	54.00	84.44	-142.55	-5,205.17	-1,509.60	4,031.22	3,897.40	133.82	30.125	
13,850.00	8,289.00	19,676.08	9,852.53	54.02	84.38	-136.17	-5,196.44	-1,509.12	4,074.53	3,940.74	133.79	30.454	
13,900.00	8,289.00	19,665.55	9,852.47	54.01	84.31	-130.99	-5,185.92	-1,508.56	4,116.49	3,982.75	133.74	30.780	
13,950.00	8,289.00	19,653.32	9,852.41	53.99	84.22	-126.80	-5,173.71	-1,507.95	4,156.82	4,023.15	133.66	31.099	
14,000.00	8,289.00	19,622.00	9,852.30	53.94	84.01	-123.24	-5,142.42	-1,506.54	4,195.34	4,061.92	133.42	31.445	
14,050.00	8,289.00	19,622.00	9,852.30	53.88	84.01	-120.61	-5,142.42	-1,506.54	4,231.60	4,098.18	133.43	31.714	
14,100.00	8,289.00	19,622.00	9,852.30	53.80	84.01	-118.45	-5,142.42	-1,506.54	4,265.65	4,132.22	133.43	31.969	
14,150.00	8,289.00	19,582.14	9,852.13	53.70	83.74	-116.47	-5,102.59	-1,505.06	4,297.00	4,163.91	133.10	32.284	
14,200.00	8,289.00	19,558.68	9,851.95	53.59	83.58	-114.94	-5,079.14	-1,504.34	4,325.65	4,192.75	132.90	32.548	
14,250.00	8,289.00	19,529.00	9,851.65	53.47	83.37	-113.67	-5,049.47	-1,503.60	4,351.35	4,218.70	132.65	32.804	
14,300.00	8,289.00	19,502.97	9,851.36	53.33	83.20	-112.66	-5,023.45	-1,503.05	4,373.92	4,241.50	132.43	33.029	
14,350.00	8,289.00	19,469.45	9,851.03	53.20	82.97	-111.83	-4,989.94	-1,502.41	4,393.19	4,261.05	132.14	33.245	
14,400.00	8,289.00	19,434.00	9,850.74	53.05	82.73	-111.19	-4,954.49	-1,501.83	4,409.03	4,277.18	131.85	33.440	
14,450.00	8,289.00	19,406.96	9,850.54	52.91	82.54	-110.73	-4,927.45	-1,501.48	4,421.38	4,289.76	131.62	33.592	
14,500.00	8,289.00	19,378.77	9,850.32	52.76	82.35	-110.40	-4,899.27	-1,501.26	4,430.21	4,298.82	131.39	33.719	
14,530.51	8,289.00	19,361.41	9,850.17	52.67	82.23	-110.27	-4,881.91	-1,501.20	4,433.84	4,302.59	131.24	33.783	
14,600.00	8,289.00	19,320.59	9,849.82	52.46	81.95	-110.19	-4,841.08	-1,501.26	4,439.71	4,308.80	130.91	33.914	
14,700.00	8,289.00	19,246.00	9,849.17	52.18	81.45	-110.11	-4,766.51	-1,502.06	4,445.07	4,314.75	130.32	34.108	
14,762.01	8,289.00	19,211.20	9,848.84	52.01	81.21	-110.09	-4,731.71	-1,502.66	4,446.43	4,316.38	130.04	34.192	
14,800.00	8,289.00	19,177.52	9,848.46	51.90	80.98	-110.09	-4,698.04	-1,503.29	4,446.80	4,317.01	129.79	34.263	
14,900.00	8,289.00	19,123.24	9,847.77	51.64	80.62	-110.07	-4,643.78	-1,504.55	4,448.23	4,318.88	129.35	34.389	
15,000.00	8,289.00	19,058.00	9,847.03	51.38	80.17	-110.05	-4,578.60	-1,507.29	4,451.12	4,322.28	128.84	34.547	
15,100.00	8,289.00	19,016.51	9,846.62	51.14	79.90	-110.04	-4,537.17	-1,509.47	4,454.90	4,326.41	128.49	34.672	
15,200.00	8,289.00	18,908.71	9,845.63	50.90	79.17	-110.01	-4,429.51	-1,514.95	4,458.96	4,331.24	127.71	34.913	
15,300.00	8,289.00	18,759.08	9,847.03	50.66	78.16	-110.00	-4,280.05	-1,520.95	4,462.76	4,336.07	126.69	35.225	
15,400.00	8,289.00	18,479.15	9,845.62	50.44	76.29	-109.96	-4,000.22	-1,526.31	4,464.64	4,339.85	124.79	35.777	
15,500.00	8,289.00	18,342.00	9,844.91	50.23	75.38	-109.97	-3,863.09	-1,524.49	4,462.72	4,338.85	123.87	36.029	
15,600.00	8,289.00	18,242.43	9,844.38	50.02	74.72	-109.97	-3,763.53	-1,523.04	4,460.76	4,337.54	123.22	36.202	
15,700.00	8,289.00	18,124.53	9,843.69	49.82	73.94	-109.97	-3,645.65	-1,521.10	4,458.60	4,336.15	122.46	36.410	
15,800.00	8,289.00	18,055.26	9,843.15	49.64	73.49	-109.97	-3,576.39	-1,520.06	4,456.53	4,334.48	122.04	36.516	
15,900.00	8,289.00	17,984.58	9,842.47	49.46	73.02	-109.96	-3,505.71	-1,519.60	4,455.17	4,333.54	121.63	36.630	
16,000.00	8,289.00	17,873.54	9,842.51	49.29	72.30	-109.97	-3,394.67	-1,519.01	4,454.29	4,333.34	120.95	36.826	
16,100.00	8,289.00	17,804.72	9,842.50	49.13	71.85	-109.97	-3,325.87	-1,518.33	4,453.07	4,332.50	120.57	36.934	
16,143.69	8,289.00	17,787.63	9,842.22	49.06	71.74	-109.97	-3,308.77	-1,518.45	4,452.94	4,332.46	120.49	36.958	
16,200.00	8,289.00	17,743.00	9,840.82	48.98	71.44	-109.95	-3,264.18	-1,519.53	4,453.31	4,333.08	120.23	37.040	
16,300.00	8,289.00	17,620.67	9,838.50	48.84	70.65	-109.91	-3,141.91	-1,521.95	4,454.29	4,334.78	119.51	37.271	
16,376.23	8,289.00	17,555.00	9,837.78	48.74	70.22	-109.90	-3,076.25	-1,522.34	4,454.12	4,334.97	119.15	37.382	
16,400.00	8,289.00	17,555.00	9,837.78	48.71	70.22	-109.90	-3,076.25	-1,522.34	4,454.19	4,335.02	119.17	37.378	
16,500.00	8,289.00	17,503.21	9,837.14	48.59	69.89	-109.89	-3,024.47	-1,522.92	4,454.82	4,335.92	118.91	37.465	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	8,289.00	17,415.08	9,838.47	48.48	69.32	-109.90	-2,936.38	-1,524.98	4,457.06	4,338.61	118.44	37.630	
16,700.00	8,289.00	17,303.31	9,841.05	48.38	68.60	-109.93	-2,824.66	-1,526.01	4,458.23	4,340.37	117.86	37.827	
16,800.00	8,289.00	17,066.56	9,839.52	48.29	67.10	-109.91	-2,587.96	-1,528.56	4,459.02	4,342.48	116.54	38.263	
16,900.00	8,289.00	16,990.00	9,839.24	48.21	66.61	-109.91	-2,511.40	-1,528.17	4,457.96	4,341.77	116.19	38.368	
17,000.00	8,289.00	16,899.14	9,840.39	48.15	66.04	-109.93	-2,420.55	-1,527.52	4,457.29	4,341.52	115.78	38.499	
17,100.00	8,289.00	16,828.91	9,841.51	48.09	65.59	-109.94	-2,350.33	-1,527.13	4,456.90	4,341.41	115.49	38.590	
17,107.10	8,289.00	16,823.98	9,841.60	48.09	65.56	-109.94	-2,345.40	-1,527.11	4,456.90	4,341.43	115.47	38.597	
17,200.00	8,289.00	16,803.00	9,842.00	48.05	65.43	-109.95	-2,324.43	-1,527.08	4,457.50	4,342.05	115.45	38.608	
17,300.00	8,289.00	16,755.35	9,843.12	48.01	65.13	-109.96	-2,276.79	-1,527.64	4,459.37	4,344.08	115.29	38.679	
17,400.00	8,289.00	16,427.00	9,855.19	47.99	63.08	-110.11	-1,948.88	-1,528.99	4,462.88	4,349.23	113.65	39.270	
17,500.00	8,289.00	16,396.22	9,855.53	47.99	62.89	-110.11	-1,918.11	-1,528.63	4,461.47	4,347.83	113.64	39.261	
17,569.31	8,289.00	16,361.30	9,855.82	47.99	62.68	-110.12	-1,883.19	-1,528.54	4,461.20	4,347.65	113.55	39.288	
17,600.00	8,289.00	16,333.00	9,855.99	47.99	62.51	-110.12	-1,854.89	-1,528.69	4,461.29	4,347.85	113.44	39.326	
17,700.00	8,289.00	16,290.83	9,856.13	48.01	62.25	-110.12	-1,812.72	-1,529.27	4,462.11	4,348.75	113.36	39.362	
17,800.00	8,289.00	16,239.00	9,856.10	48.04	61.93	-110.11	-1,760.91	-1,530.50	4,463.95	4,350.73	113.22	39.426	
17,900.00	8,289.00	16,173.67	9,856.70	48.08	61.54	-110.11	-1,695.61	-1,532.46	4,466.71	4,353.69	113.02	39.521	
18,000.00	8,289.00	15,969.30	9,859.38	48.14	60.31	-110.13	-1,491.31	-1,536.30	4,468.27	4,356.10	112.17	39.835	
18,100.00	8,289.00	15,887.95	9,860.12	48.21	59.82	-110.14	-1,409.97	-1,537.30	4,469.33	4,357.40	111.93	39.930	
18,200.00	8,289.00	15,710.56	9,859.93	48.29	58.77	-110.14	-1,232.59	-1,538.12	4,468.98	4,357.75	111.23	40.178	
18,254.51	8,289.00	15,676.00	9,859.69	48.34	58.57	-110.13	-1,198.03	-1,538.28	4,468.86	4,357.70	111.16	40.202	
18,300.00	8,289.00	15,643.56	9,859.51	48.39	58.38	-110.13	-1,165.59	-1,538.53	4,468.92	4,357.84	111.08	40.230	
18,400.00	8,289.00	15,432.46	9,859.65	48.50	57.15	-110.14	-954.51	-1,538.77	4,469.38	4,359.12	110.25	40.538	
18,500.00	8,289.00	15,329.44	9,859.23	48.63	56.56	-110.14	-851.53	-1,536.27	4,466.53	4,356.56	109.97	40.616	
18,600.00	8,289.00	15,275.97	9,859.22	48.76	56.25	-110.15	-798.06	-1,535.59	4,464.86	4,354.92	109.94	40.613	
18,700.00	8,289.00	15,207.00	9,859.41	48.92	55.86	-110.15	-729.09	-1,535.17	4,463.98	4,354.14	109.84	40.643	
18,800.00	8,289.00	15,113.00	9,860.01	49.08	55.33	-110.16	-635.10	-1,534.91	4,463.52	4,353.89	109.63	40.715	
18,817.42	8,289.00	15,113.00	9,860.01	49.11	55.33	-110.16	-635.10	-1,534.91	4,463.49	4,353.82	109.67	40.701	
18,900.00	8,289.00	15,072.22	9,860.26	49.26	55.10	-110.17	-594.32	-1,535.13	4,463.80	4,354.14	109.66	40.706	
19,000.00	8,289.00	14,993.22	9,860.31	49.46	54.66	-110.16	-515.34	-1,536.85	4,465.36	4,355.83	109.53	40.770	
19,100.00	8,289.00	14,812.53	9,860.58	50.02	53.66	-110.16	-334.66	-1,538.75	4,466.09	4,357.29	108.80	41.048	
19,101.33	8,289.00	14,811.19	9,860.58	50.05	53.66	-110.16	-333.33	-1,538.75	4,466.08	4,357.28	108.80	41.049	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	159.76	-332.44	122.56	354.31				
100.00	100.00	96.35	96.34	0.28	0.16	159.95	-333.17	121.61	354.68	354.25	0.43	825.926	
200.00	200.00	194.52	194.45	0.63	0.42	160.47	-335.27	118.94	355.77	354.72	1.05	339.306	
300.00	300.00	294.87	294.69	0.99	0.78	161.18	-337.87	115.17	356.98	355.21	1.77	201.475	
400.00	400.00	394.27	393.96	1.35	1.14	161.97	-340.65	110.89	358.27	355.78	2.49	143.689	
500.00	500.00	493.53	493.09	1.71	1.51	162.75	-343.59	106.68	359.82	356.61	3.21	111.942	
600.00	600.00	592.65	592.09	2.07	1.87	163.49	-346.62	102.72	361.59	357.66	3.93	91.905	
700.00	700.00	692.37	691.67	2.43	2.24	164.25	-349.85	98.65	363.57	358.91	4.66	78.089	
800.00	800.00	792.21	791.46	2.79	2.59	164.65	-352.49	96.74	365.60	360.23	5.37	68.092	
900.00	900.00	892.79	892.02	3.14	2.94	164.66	-354.45	97.25	367.61	361.54	6.07	60.518	
1,000.00	1,000.00	993.30	992.51	3.50	3.29	164.59	-356.10	98.14	369.43	362.65	6.78	54.504	
1,100.00	1,100.00	1,094.85	1,094.04	3.86	3.64	164.54	-357.52	98.91	370.99	363.50	7.49	49.545	
1,200.00	1,200.00	1,195.11	1,194.29	4.22	3.98	164.45	-358.60	99.79	372.25	364.06	8.19	45.435	
1,300.00	1,300.00	1,293.51	1,292.68	4.58	4.33	164.37	-359.90	100.72	373.79	364.89	8.89	42.028	
1,400.00	1,400.00	1,394.19	1,393.34	4.94	4.68	164.26	-361.28	101.83	375.40	365.80	9.60	39.086	
1,500.00	1,500.00	1,495.10	1,494.24	5.29	5.03	164.17	-362.45	102.75	376.77	366.45	10.32	36.519	
1,600.00	1,600.00	1,595.56	1,594.69	5.65	5.39	164.12	-363.51	103.44	377.97	366.94	11.03	34.267	
1,700.00	1,700.00	1,696.22	1,695.35	6.01	5.75	164.10	-364.51	103.85	379.04	367.29	11.75	32.270	
1,800.00	1,800.00	1,797.30	1,796.43	6.37	6.11	164.11	-365.35	103.98	379.87	367.40	12.46	30.476	
1,900.00	1,899.98	1,897.95	1,897.07	6.72	6.47	59.61	-365.87	104.20	379.54	366.37	13.17	28.821	
2,000.00	1,999.84	1,997.83	1,996.95	7.06	6.81	60.20	-366.11	105.21	377.41	363.55	13.85	27.241	
2,100.00	2,099.45	2,093.38	2,092.47	7.40	7.14	61.03	-366.37	107.50	374.01	359.48	14.53	25.748	
2,200.00	2,198.70	2,190.06	2,189.10	7.74	7.48	62.33	-367.78	110.32	370.30	355.09	15.20	24.354	
2,300.00	2,297.47	2,287.00	2,285.93	8.09	7.82	63.96	-369.44	114.41	365.75	349.86	15.89	23.021	
2,400.00	2,395.62	2,390.41	2,389.23	8.44	8.18	66.22	-371.13	119.10	360.06	343.46	16.60	21.690	
2,491.84	2,485.13	2,484.97	2,483.75	8.76	8.51	69.15	-371.52	121.43	352.78	335.53	17.25	20.449	
2,500.00	2,493.06	2,493.27	2,492.05	8.79	8.54	69.44	-371.51	121.54	352.08	334.77	17.31	20.340	
2,600.00	2,590.16	2,591.11	2,589.87	9.14	8.88	72.82	-371.27	123.20	344.03	326.03	18.00	19.109	
2,700.00	2,687.25	2,687.56	2,686.30	9.50	9.22	76.22	-371.10	125.32	337.33	318.63	18.70	18.040	
2,800.00	2,784.35	2,785.46	2,784.18	9.86	9.56	79.81	-371.07	127.36	332.11	312.70	19.40	17.115	
2,900.00	2,881.45	2,883.05	2,881.75	10.23	9.90	83.46	-370.98	129.50	328.19	308.08	20.11	16.318	
3,000.00	2,978.55	2,981.32	2,979.99	10.60	10.25	87.19	-370.80	131.77	325.59	304.76	20.83	15.634	
3,100.00	3,075.65	3,078.56	3,077.20	10.96	10.59	90.93	-370.58	134.01	324.40	302.86	21.54	15.062	
3,129.33	3,104.13	3,107.25	3,105.89	11.07	10.69	92.04	-370.52	134.66	324.34	302.59	21.75	14.914	CC
3,200.00	3,172.74	3,176.35	3,174.97	11.34	10.93	94.72	-370.33	136.13	324.70	302.44	22.25	14.591	ES
3,300.00	3,269.84	3,274.34	3,272.93	11.71	11.27	98.46	-370.05	138.48	326.35	303.38	22.97	14.206	
3,400.00	3,366.94	3,371.55	3,370.11	12.08	11.62	102.08	-369.90	141.01	329.46	305.77	23.69	13.907	
3,500.00	3,464.04	3,468.86	3,467.39	12.46	11.96	105.66	-369.73	143.34	334.01	309.60	24.41	13.684	
3,600.00	3,561.14	3,565.77	3,564.28	12.83	12.30	109.16	-369.59	145.32	340.11	314.99	25.12	13.537	
3,700.00	3,658.24	3,663.62	3,662.11	13.21	12.65	112.58	-369.38	147.29	347.47	321.63	25.85	13.444	
3,800.00	3,755.33	3,760.14	3,758.61	13.59	12.99	115.80	-369.26	149.16	356.17	329.61	26.56	13.410	
3,900.00	3,852.43	3,856.72	3,855.18	13.97	13.33	118.88	-369.33	150.74	366.33	339.06	27.28	13.431	
4,000.00	3,949.53	3,954.12	3,952.56	14.35	13.68	121.79	-369.60	152.48	377.58	349.59	28.00	13.487	
4,100.00	4,046.63	4,050.86	4,049.29	14.73	14.03	124.54	-369.80	153.92	389.95	361.23	28.71	13.581	
4,200.00	4,143.73	4,147.96	4,146.38	15.11	14.37	127.12	-370.14	155.35	403.28	373.85	29.43	13.703	
4,300.00	4,240.82	4,244.45	4,242.86	15.50	14.72	129.50	-370.64	156.73	417.52	387.38	30.15	13.850	
4,400.00	4,337.92	4,340.89	4,339.29	15.88	15.06	131.71	-371.42	157.95	432.75	401.89	30.86	14.023	
4,500.00	4,435.02	4,438.13	4,436.52	16.27	15.41	133.81	-372.12	159.01	448.70	417.12	31.58	14.208	
4,600.00	4,532.12	4,535.37	4,533.75	16.65	15.76	135.76	-372.89	160.09	465.23	432.93	32.30	14.402	
4,700.00	4,629.22	4,632.47	4,630.85	17.04	16.11	137.57	-373.66	161.10	482.31	449.29	33.02	14.605	
4,800.00	4,726.31	4,728.82	4,727.19	17.42	16.45	139.26	-374.42	162.00	499.94	466.20	33.74	14.818	
4,900.00	4,823.41	4,824.75	4,823.11	17.81	16.80	140.83	-375.28	162.65	518.26	483.80	34.45	15.043	

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 3H
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 3H	**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
5,000.00	4,920.51	4,921.38	4,919.74	18.20	17.14	142.29	-376.31	163.15	537.13	501.96	35.17	15.273	
5,100.00	5,017.61	5,018.73	5,017.08	18.58	17.49	143.67	-377.31	163.60	556.38	520.49	35.89	15.502	
5,200.00	5,114.71	5,117.52	5,115.86	18.97	17.84	144.97	-378.39	164.20	575.81	539.19	36.62	15.722	
5,300.00	5,211.80	5,214.98	5,213.31	19.36	18.19	146.16	-379.45	165.03	595.27	557.92	37.35	15.938	
5,400.00	5,308.90	5,313.02	5,311.34	19.75	18.54	147.27	-380.64	165.88	614.99	576.91	38.08	16.150	
5,500.00	5,406.00	5,409.62	5,407.92	20.14	18.89	148.27	-382.03	166.86	634.84	596.04	38.80	16.362	
5,600.00	5,503.10	5,504.00	5,502.29	20.53	19.22	149.19	-383.48	167.54	655.18	615.67	39.51	16.585	
5,700.00	5,600.20	5,599.16	5,597.43	20.91	19.56	150.07	-384.99	167.80	676.10	635.89	40.21	16.813	
5,800.00	5,697.30	5,695.90	5,694.16	21.30	19.90	150.90	-386.70	167.92	697.37	656.43	40.93	17.037	
5,900.00	5,794.39	5,792.47	5,790.71	21.69	20.25	151.68	-388.41	168.00	718.81	677.15	41.65	17.257	
6,000.00	5,891.49	5,887.17	5,885.40	22.09	20.58	152.40	-390.18	167.90	740.56	698.21	42.36	17.484	
6,100.00	5,988.59	5,984.15	5,982.36	22.48	20.92	153.08	-392.24	167.61	762.66	719.59	43.08	17.704	
6,200.00	6,085.69	6,084.14	6,082.33	22.87	21.28	153.74	-394.28	167.48	784.68	740.86	43.82	17.905	
6,300.00	6,182.79	6,183.09	6,181.27	23.26	21.63	154.40	-395.68	167.58	806.47	761.91	44.56	18.098	
6,400.00	6,279.88	6,279.30	6,277.47	23.65	21.97	155.02	-396.87	167.68	828.31	783.03	45.28	18.293	
6,500.00	6,376.98	6,377.79	6,375.95	24.04	22.32	155.63	-398.08	167.78	850.25	804.23	46.02	18.477	
6,600.00	6,474.08	6,486.44	6,484.59	24.43	22.70	156.33	-398.24	168.56	871.52	824.70	46.82	18.616	
6,700.00	6,571.18	6,587.81	6,585.95	24.82	23.05	157.03	-397.06	170.00	892.05	844.49	47.56	18.757	
6,800.00	6,668.28	6,685.57	6,683.68	25.22	23.39	157.70	-395.46	171.62	912.39	864.11	48.28	18.899	
6,900.00	6,765.37	6,778.23	6,776.32	25.61	23.70	158.33	-393.66	172.81	933.19	884.23	48.96	19.060	
7,000.00	6,862.47	6,871.15	6,869.23	26.00	24.02	158.91	-392.37	173.79	954.37	904.73	49.64	19.224	
7,100.00	6,959.57	6,949.00	6,947.07	26.39	24.28	159.36	-391.67	173.61	976.95	926.73	50.22	19.455	
7,200.00	7,056.67	7,038.87	7,036.92	26.78	24.58	159.83	-391.34	172.24	1,000.90	950.03	50.87	19.677	
7,300.00	7,153.77	7,144.48	7,142.53	27.18	24.94	160.36	-391.01	170.68	1,024.87	973.23	51.64	19.847	
7,400.00	7,250.86	7,239.87	7,237.90	27.57	25.25	160.83	-390.30	169.63	1,048.52	996.19	52.33	20.036	
7,500.00	7,347.96	7,328.77	7,326.79	27.96	25.55	161.26	-389.60	168.23	1,072.69	1,019.71	52.98	20.248	
7,600.00	7,445.06	7,425.97	7,423.97	28.36	25.88	161.71	-388.79	166.39	1,097.23	1,043.55	53.69	20.438	
7,700.00	7,542.16	7,516.77	7,514.75	28.75	26.18	162.13	-387.88	164.51	1,122.00	1,067.66	54.35	20.645	
7,800.00	7,639.26	7,602.89	7,600.83	29.14	26.47	162.50	-386.98	162.05	1,147.58	1,092.61	54.97	20.877	
7,900.00	7,736.36	7,690.89	7,688.76	29.54	26.77	162.88	-386.04	158.83	1,173.99	1,118.39	55.61	21.113	
7,902.86	7,739.13	7,693.40	7,691.27	29.55	26.77	162.89	-386.02	158.73	1,174.76	1,119.13	55.62	21.120	
7,950.00	7,784.76	7,736.87	7,734.70	29.73	26.92	144.78	-385.63	156.94	1,187.23	1,131.28	55.94	21.223	
8,000.00	7,832.63	7,783.28	7,781.07	29.93	27.08	130.35	-385.48	155.00	1,200.03	1,143.75	56.28	21.323	
8,050.00	7,879.58	7,836.41	7,834.16	30.12	27.26	120.39	-385.57	152.86	1,212.30	1,155.63	56.68	21.390	
8,100.00	7,925.27	7,892.22	7,889.94	30.31	27.45	113.63	-385.74	151.05	1,223.78	1,166.68	57.09	21.435	
8,150.00	7,969.35	7,950.57	7,948.27	30.49	27.65	109.09	-385.93	149.75	1,234.47	1,176.94	57.53	21.459	
8,200.00	8,011.47	8,005.32	8,003.02	30.67	27.83	105.97	-386.06	149.16	1,244.46	1,186.53	57.93	21.482	
8,250.00	8,051.32	8,053.80	8,051.50	30.83	28.00	103.73	-386.16	149.03	1,254.08	1,195.79	58.29	21.515	
8,300.00	8,088.60	8,096.49	8,094.18	30.99	28.15	102.07	-386.24	149.18	1,263.59	1,204.99	58.61	21.561	
8,350.00	8,123.02	8,130.89	8,128.58	31.14	28.28	100.67	-386.31	149.35	1,273.36	1,214.50	58.87	21.632	
8,400.00	8,154.32	8,162.20	8,159.90	31.28	28.39	99.51	-386.39	149.51	1,283.61	1,224.51	59.10	21.718	
8,450.00	8,182.27	8,189.43	8,187.12	31.42	28.48	98.47	-386.46	149.63	1,294.48	1,235.17	59.31	21.826	
8,500.00	8,206.64	8,212.21	8,209.91	31.54	28.56	97.42	-386.52	149.71	1,306.11	1,246.63	59.48	21.958	
8,550.00	8,227.26	8,231.52	8,229.21	31.66	28.63	96.34	-386.58	149.75	1,318.61	1,258.98	59.63	22.113	
8,600.00	8,243.96	8,247.20	8,244.90	31.78	28.69	95.18	-386.63	149.77	1,332.00	1,272.26	59.75	22.294	
8,621.67	8,249.95	8,252.84	8,250.54	31.83	28.71	94.65	-386.65	149.77	1,338.10	1,278.31	59.79	22.380	
8,700.00	8,267.63	8,269.54	8,267.24	32.00	28.77	94.08	-386.71	149.76	1,362.58	1,302.66	59.91	22.743	
8,800.00	8,282.55	8,283.56	8,281.25	32.23	28.82	92.69	-386.76	149.74	1,399.86	1,339.86	60.01	23.328	
8,900.00	8,288.79	8,289.63	8,287.33	32.46	28.84	90.55	-386.79	149.73	1,443.40	1,383.37	60.04	24.042	
8,921.67	8,289.00	8,289.90	8,287.60	32.51	28.84	89.98	-386.79	149.73	1,453.59	1,393.56	60.03	24.213	
9,000.00	8,289.00	8,290.21	8,287.90	32.69	28.84	90.00	-386.79	149.73	1,492.47	1,432.45	60.02	24.868	
9,100.00	8,289.00	8,290.60	8,288.30	32.94	28.84	90.01	-386.79	149.73	1,546.45	1,486.46	59.99	25.778	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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
9,200.00	8,289.00	8,291.00	8,288.69	33.20	28.84	90.03	-386.79	149.73	1,604.86	1,544.89	59.96	26.764	
9,300.00	8,289.00	8,291.40	8,289.09	33.48	28.84	90.05	-386.80	149.73	1,667.22	1,607.28	59.93	27.817	
9,400.00	8,289.00	8,291.80	8,289.50	33.77	28.84	90.07	-386.80	149.73	1,733.11	1,673.20	59.91	28.930	
9,500.00	8,289.00	8,292.20	8,289.90	34.07	28.85	90.09	-386.80	149.72	1,802.14	1,742.26	59.88	30.096	
9,600.00	8,289.00	8,292.61	8,290.31	34.38	28.85	90.10	-386.80	149.72	1,873.97	1,814.11	59.85	31.309	
9,700.00	8,289.00	8,293.02	8,290.72	34.70	28.85	90.12	-386.80	149.72	1,948.28	1,888.45	59.83	32.562	
9,800.00	8,289.00	8,293.44	8,291.13	35.04	28.85	90.14	-386.81	149.72	2,024.81	1,965.00	59.81	33.852	
9,900.00	8,289.00	8,293.85	8,291.55	35.39	28.85	90.16	-386.81	149.72	2,103.31	2,043.51	59.80	35.175	
10,000.00	8,289.00	8,294.27	8,291.97	35.75	28.85	90.18	-386.81	149.72	2,183.56	2,123.78	59.78	36.525	
10,100.00	8,289.00	8,294.69	8,292.39	36.12	28.85	90.20	-386.81	149.72	2,265.39	2,205.62	59.77	37.901	
10,200.00	8,289.00	8,295.12	8,292.81	36.51	28.86	90.22	-386.81	149.72	2,348.63	2,288.86	59.76	39.298	
10,300.00	8,289.00	8,295.55	8,293.24	36.90	28.86	90.24	-386.81	149.71	2,433.12	2,373.36	59.76	40.716	
10,400.00	8,289.00	8,295.98	8,293.67	37.31	28.86	90.25	-386.82	149.71	2,518.76	2,459.00	59.76	42.150	
10,500.00	8,289.00	8,296.41	8,294.11	37.72	28.86	90.27	-386.82	149.71	2,605.41	2,545.66	59.76	43.600	
10,600.00	8,289.00	8,296.85	8,294.55	38.15	28.86	90.29	-386.82	149.71	2,692.99	2,633.23	59.76	45.063	
10,700.00	8,289.00	8,297.29	8,294.99	38.58	28.86	90.31	-386.82	149.71	2,781.41	2,721.65	59.77	46.537	
10,800.00	8,289.00	12,455.00	10,757.23	39.03	47.99	152.14	-2,384.84	131.53	2,851.08	2,784.92	66.16	43.092	
10,900.00	8,289.00	12,455.00	10,757.23	39.48	47.99	152.14	-2,384.84	131.53	2,872.83	2,806.04	66.79	43.011	
11,000.00	8,289.00	12,455.00	10,757.23	39.94	47.99	152.14	-2,384.84	131.53	2,897.86	2,830.45	67.42	42.984	
11,100.00	8,289.00	12,455.00	10,757.23	40.41	47.99	152.14	-2,384.84	131.53	2,926.10	2,858.07	68.03	43.012	
11,200.00	8,289.00	12,455.00	10,757.23	40.89	47.99	152.14	-2,384.84	131.53	2,957.45	2,888.82	68.63	43.094	
11,300.00	8,289.00	12,455.00	10,757.23	41.38	47.99	152.14	-2,384.84	131.53	2,991.82	2,922.61	69.21	43.228	
11,400.00	8,289.00	12,455.00	10,757.23	41.88	47.99	152.14	-2,384.84	131.53	3,029.10	2,959.33	69.77	43.414	
11,500.00	8,289.00	12,455.00	10,757.23	42.38	47.99	152.14	-2,384.84	131.53	3,069.19	2,998.87	70.32	43.648	
11,600.00	8,289.00	12,455.00	10,757.23	42.89	47.99	152.14	-2,384.84	131.53	3,111.97	3,041.13	70.84	43.931	
11,700.00	8,289.00	12,455.00	10,757.23	43.41	47.99	152.14	-2,384.84	131.53	3,157.34	3,086.01	71.34	44.259	
11,800.00	8,289.00	12,455.00	10,757.23	43.93	47.99	152.14	-2,384.84	131.53	3,205.20	3,133.38	71.81	44.632	
11,900.00	8,289.00	12,455.00	10,757.23	44.46	47.99	152.14	-2,384.84	131.53	3,255.42	3,183.15	72.27	45.047	
12,000.00	8,289.00	12,455.00	10,757.23	45.00	47.99	152.14	-2,384.84	131.53	3,307.90	3,235.20	72.70	45.502	
12,100.00	8,289.00	12,455.00	10,757.23	45.55	47.99	152.14	-2,384.84	131.53	3,362.54	3,289.43	73.11	45.996	
12,200.00	8,289.00	12,455.00	10,757.23	46.10	47.99	152.14	-2,384.84	131.53	3,419.23	3,345.74	73.49	46.526	
12,300.00	8,289.00	12,455.00	10,757.23	46.65	47.99	152.14	-2,384.84	131.53	3,477.87	3,404.02	73.85	47.091	
12,400.00	8,289.00	12,455.00	10,757.23	47.21	47.99	152.14	-2,384.84	131.53	3,538.37	3,464.17	74.20	47.689	
12,500.00	8,289.00	12,455.00	10,757.23	47.78	47.99	152.14	-2,384.84	131.53	3,600.63	3,526.11	74.52	48.318	
12,600.00	8,289.00	12,455.00	10,757.23	48.35	47.99	152.14	-2,384.84	131.53	3,664.56	3,589.73	74.82	48.976	
12,688.51	8,289.00	12,455.00	10,757.23	48.86	47.99	152.14	-2,384.84	131.53	3,722.46	3,647.38	75.08	49.582	
12,700.00	8,289.00	12,455.00	10,757.23	48.93	47.99	152.99	-2,384.84	131.53	3,730.11	3,655.00	75.11	49.662	
12,750.00	8,289.00	12,455.00	10,757.23	49.23	47.99	157.02	-2,384.84	131.53	3,764.41	3,689.14	75.26	50.018	
12,800.00	8,289.00	12,455.00	10,757.23	49.53	47.99	161.53	-2,384.84	131.53	3,800.18	3,724.76	75.43	50.383	
12,850.00	8,289.00	12,455.00	10,757.23	49.84	47.99	166.50	-2,384.84	131.53	3,837.16	3,761.56	75.61	50.753	
12,900.00	8,289.00	12,455.00	10,757.23	50.15	47.99	171.88	-2,384.84	131.53	3,875.06	3,799.26	75.80	51.125	
12,950.00	8,289.00	12,455.00	10,757.23	50.47	47.99	177.55	-2,384.84	131.53	3,913.60	3,837.60	76.00	51.496	
13,000.00	8,289.00	12,455.00	10,757.23	50.79	47.99	-176.62	-2,384.84	131.53	3,952.51	3,876.29	76.21	51.862	
13,050.00	8,289.00	12,455.00	10,757.23	51.10	47.99	-170.78	-2,384.84	131.53	3,991.51	3,915.07	76.44	52.219	
13,100.00	8,289.00	12,455.00	10,757.23	51.40	47.99	-165.10	-2,384.84	131.53	4,030.34	3,953.67	76.67	52.565	
13,150.00	8,289.00	12,455.00	10,757.23	51.70	47.99	-159.72	-2,384.84	131.53	4,068.76	3,991.84	76.92	52.897	
13,200.00	8,289.00	12,455.00	10,757.23	51.99	47.99	-154.72	-2,384.84	131.53	4,106.51	4,029.34	77.18	53.210	
13,250.00	8,289.00	12,455.00	10,757.23	52.26	47.99	-150.16	-2,384.84	131.53	4,143.37	4,065.93	77.44	53.503	
13,300.00	8,289.00	12,455.00	10,757.23	52.52	47.99	-146.08	-2,384.84	131.53	4,179.11	4,101.39	77.72	53.773	
13,350.00	8,289.00	12,455.00	10,757.23	52.77	47.99	-142.45	-2,384.84	131.53	4,213.51	4,135.51	78.00	54.016	
13,400.00	8,289.00	12,455.00	10,757.23	53.00	47.99	-139.26	-2,384.84	131.53	4,246.40	4,168.09	78.30	54.231	
13,450.00	8,289.00	12,455.00	10,757.23	53.20	47.99	-136.48	-2,384.84	131.53	4,277.57	4,198.96	78.61	54.416	

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

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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
13,500.00	8,289.00	12,455.00	10,757.23	53.39	47.99	-134.06	-2,384.84	131.53	4,306.86	4,227.93	78.93	54.568	
13,550.00	8,289.00	12,455.00	10,757.23	53.55	47.99	-131.97	-2,384.84	131.53	4,334.10	4,254.85	79.25	54.686	
13,600.00	8,289.00	12,455.00	10,757.23	53.69	47.99	-130.17	-2,384.84	131.53	4,359.17	4,279.58	79.59	54.769	
13,650.00	8,289.00	12,455.00	10,757.23	53.80	47.99	-128.65	-2,384.84	131.53	4,381.92	4,301.98	79.94	54.815	
13,700.00	8,289.00	12,455.00	10,757.23	53.89	47.99	-127.36	-2,384.84	131.53	4,402.24	4,321.94	80.30	54.823	
13,750.00	8,289.00	12,455.00	10,757.23	53.96	47.99	-126.28	-2,384.84	131.53	4,420.03	4,339.36	80.67	54.794	
13,800.00	8,289.00	12,455.00	10,757.23	54.00	47.99	-125.40	-2,384.84	131.53	4,435.19	4,354.15	81.04	54.727	
13,850.00	8,289.00	12,455.00	10,757.23	54.02	47.99	-124.71	-2,384.84	131.53	4,447.66	4,366.23	81.43	54.622	
13,900.00	8,289.00	12,455.00	10,757.23	54.01	47.99	-124.18	-2,384.84	131.53	4,457.36	4,375.54	81.82	54.479	
13,950.00	8,289.00	12,455.00	10,757.23	53.99	47.99	-123.81	-2,384.84	131.53	4,464.26	4,382.04	82.22	54.298	
14,000.00	8,289.00	12,455.00	10,757.23	53.94	47.99	-123.60	-2,384.84	131.53	4,468.32	4,385.70	82.62	54.082	
14,050.00	8,289.00	12,455.00	10,757.23	53.88	47.99	-123.54	-2,384.84	131.53	4,469.52	4,386.49	83.03	53.831	
14,100.00	8,289.00	12,455.00	10,757.23	53.80	47.99	-123.62	-2,384.84	131.53	4,467.86	4,384.42	83.44	53.545	
14,150.00	8,289.00	12,455.00	10,757.23	53.70	47.99	-123.86	-2,384.84	131.53	4,463.33	4,379.48	83.85	53.227	
14,200.00	8,289.00	12,455.00	10,757.23	53.59	47.99	-124.25	-2,384.84	131.53	4,455.98	4,371.71	84.27	52.878	
14,250.00	8,289.00	12,455.00	10,757.23	53.47	47.99	-124.81	-2,384.84	131.53	4,445.82	4,361.13	84.68	52.500	
14,300.00	8,289.00	12,455.00	10,757.23	53.33	47.99	-125.53	-2,384.84	131.53	4,432.91	4,347.81	85.09	52.094	
14,350.00	8,289.00	12,455.00	10,757.23	53.20	47.99	-126.44	-2,384.84	131.53	4,417.31	4,331.81	85.50	51.663	
14,400.00	8,289.00	12,455.00	10,757.23	53.05	47.99	-127.55	-2,384.84	131.53	4,399.11	4,313.20	85.91	51.207	
14,450.00	8,289.00	12,455.00	10,757.23	52.91	47.99	-128.88	-2,384.84	131.53	4,378.39	4,292.08	86.31	50.730	
14,500.00	8,289.00	12,455.00	10,757.23	52.76	47.99	-130.45	-2,384.84	131.53	4,355.25	4,268.55	86.70	50.232	
14,530.51	8,289.00	12,455.00	10,757.23	52.67	47.99	-131.54	-2,384.84	131.53	4,340.00	4,253.06	86.94	49.920	
14,600.00	8,289.00	12,455.00	10,757.23	52.46	47.99	-132.32	-2,384.84	131.53	4,303.97	4,216.49	87.47	49.202	
14,700.00	8,289.00	12,455.00	10,757.23	52.18	47.99	-133.52	-2,384.84	131.53	4,250.94	4,162.69	88.25	48.171	
14,762.01	8,289.00	12,455.00	10,757.23	52.01	47.99	-134.29	-2,384.84	131.53	4,217.39	4,128.67	88.73	47.533	
14,800.00	8,289.00	12,455.00	10,757.23	51.90	47.99	-134.29	-2,384.84	131.53	4,196.81	4,107.79	89.02	47.144	
14,900.00	8,289.00	12,455.00	10,757.23	51.64	47.99	-134.29	-2,384.84	131.53	4,143.81	4,054.00	89.81	46.141	
15,000.00	8,289.00	12,455.00	10,757.23	51.38	47.99	-134.29	-2,384.84	131.53	4,092.56	4,001.95	90.61	45.168	
15,100.00	8,289.00	12,455.00	10,757.23	51.14	47.99	-134.29	-2,384.84	131.53	4,043.14	3,951.72	91.42	44.225	
15,200.00	8,289.00	12,455.00	10,757.23	50.90	47.99	-134.29	-2,384.84	131.53	3,995.61	3,903.36	92.25	43.315	
15,300.00	8,289.00	12,455.00	10,757.23	50.66	47.99	-134.29	-2,384.84	131.53	3,950.04	3,856.96	93.08	42.437	
15,400.00	8,289.00	12,455.00	10,757.23	50.44	47.99	-134.29	-2,384.84	131.53	3,906.50	3,812.58	93.92	41.594	
15,500.00	8,289.00	12,455.00	10,757.23	50.23	47.99	-134.29	-2,384.84	131.53	3,865.06	3,770.30	94.76	40.786	
15,600.00	8,289.00	12,455.00	10,757.23	50.02	47.99	-134.29	-2,384.84	131.53	3,825.78	3,730.17	95.61	40.015	
15,700.00	8,289.00	12,455.00	10,757.23	49.82	47.99	-134.29	-2,384.84	131.53	3,788.74	3,692.28	96.45	39.281	
15,800.00	8,289.00	12,455.00	10,757.23	49.64	47.99	-134.29	-2,384.84	131.53	3,753.99	3,656.70	97.29	38.585	
15,900.00	8,289.00	12,455.00	10,757.23	49.46	47.99	-134.29	-2,384.84	131.53	3,721.61	3,623.48	98.12	37.927	
16,000.00	8,289.00	12,455.00	10,757.23	49.29	47.99	-134.29	-2,384.84	131.53	3,691.65	3,592.71	98.95	37.310	
16,100.00	8,289.00	12,455.00	10,757.23	49.13	47.99	-134.29	-2,384.84	131.53	3,664.18	3,564.43	99.75	36.733	
16,200.00	8,289.00	12,455.00	10,757.23	48.98	47.99	-134.29	-2,384.84	131.53	3,639.25	3,538.71	100.54	36.196	
16,300.00	8,289.00	12,455.00	10,757.23	48.84	47.99	-134.29	-2,384.84	131.53	3,616.91	3,515.60	101.31	35.701	
16,400.00	8,289.00	12,455.00	10,757.23	48.71	47.99	-134.29	-2,384.84	131.53	3,597.22	3,495.16	102.06	35.247	
16,500.00	8,289.00	8,294.07	8,291.77	48.59	28.85	-90.09	-386.81	149.72	3,579.95	3,515.01	64.95	55.123	
16,600.00	8,289.00	8,293.69	8,291.38	48.48	28.85	-90.08	-386.81	149.72	3,509.19	3,443.94	65.25	53.784	
16,700.00	8,289.00	8,293.30	8,291.00	48.38	28.85	-90.07	-386.80	149.72	3,439.88	3,374.31	65.57	52.462	
16,800.00	8,289.00	8,292.92	8,290.62	48.29	28.85	-90.06	-386.80	149.72	3,372.10	3,306.19	65.92	51.157	
16,900.00	8,289.00	8,292.54	8,290.24	48.21	28.85	-90.05	-386.80	149.72	3,305.97	3,239.68	66.29	49.872	
17,000.00	8,289.00	8,292.16	8,289.86	48.15	28.85	-90.04	-386.80	149.72	3,241.57	3,174.88	66.69	48.609	
17,100.00	8,289.00	8,291.79	8,289.48	48.09	28.84	-90.03	-386.80	149.73	3,179.01	3,111.90	67.11	47.370	
17,200.00	8,289.00	8,291.42	8,289.11	48.05	28.84	-90.03	-386.80	149.73	3,118.40	3,050.84	67.56	46.159	
17,300.00	8,289.00	8,291.05	8,288.74	48.01	28.84	-90.02	-386.80	149.73	3,059.86	2,991.83	68.03	44.978	
17,400.00	8,289.00	8,290.68	8,288.37	47.99	28.84	-90.01	-386.79	149.73	3,003.51	2,934.98	68.53	43.829	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 143-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,500.00	8,289.00	8,290.31	8,288.01	47.99	28.84	-90.00	-386.79	149.73	2,949.48	2,880.43	69.05	42.716	
17,600.00	8,289.00	8,289.95	8,287.65	47.99	28.84	-89.99	-386.79	149.73	2,897.89	2,828.30	69.59	41.641	
17,700.00	8,289.00	8,289.59	8,287.29	48.01	28.84	-89.98	-386.79	149.73	2,848.88	2,778.72	70.16	40.608	
17,800.00	8,289.00	8,289.23	8,286.93	48.04	28.84	-89.98	-386.79	149.73	2,802.58	2,731.84	70.74	39.620	
17,900.00	8,289.00	8,288.88	8,286.57	48.08	28.83	-89.97	-386.79	149.73	2,759.12	2,687.79	71.33	38.680	
18,000.00	8,289.00	8,288.52	8,286.22	48.14	28.83	-89.96	-386.78	149.73	2,718.66	2,646.72	71.94	37.790	
18,100.00	8,289.00	8,288.17	8,285.87	48.21	28.83	-89.95	-386.78	149.73	2,681.31	2,608.75	72.56	36.955	
18,200.00	8,289.00	8,287.82	8,285.52	48.29	28.83	-89.94	-386.78	149.74	2,647.22	2,574.04	73.18	36.176	
18,300.00	8,289.00	8,287.47	8,285.17	48.39	28.83	-89.94	-386.78	149.74	2,616.50	2,542.71	73.80	35.456	
18,400.00	8,289.00	8,287.13	8,284.82	48.50	28.83	-89.93	-386.78	149.74	2,589.29	2,514.88	74.41	34.798	
18,500.00	8,289.00	8,286.79	8,284.48	48.63	28.83	-89.92	-386.78	149.74	2,565.69	2,490.68	75.01	34.204	
18,600.00	8,289.00	8,286.44	8,284.14	48.76	28.83	-89.91	-386.78	149.74	2,545.80	2,470.20	75.60	33.676	
18,700.00	8,289.00	8,286.11	8,283.80	48.92	28.82	-89.90	-386.77	149.74	2,529.71	2,453.55	76.16	33.215	
18,800.00	8,289.00	8,285.77	8,283.47	49.08	28.82	-89.90	-386.77	149.74	2,517.49	2,440.79	76.70	32.823	
18,900.00	8,289.00	8,285.43	8,283.13	49.26	28.82	-89.89	-386.77	149.74	2,509.20	2,431.99	77.20	32.501	
19,000.00	8,289.00	8,285.10	8,282.80	49.46	28.82	-89.88	-386.77	149.74	2,504.88	2,427.20	77.67	32.249	
19,058.35	8,289.00	8,284.91	8,282.61	49.59	28.82	-89.88	-386.77	149.74	2,504.20	2,426.35	77.85	32.167	
19,100.00	8,289.00	8,284.77	8,282.47	50.02	28.82	-89.87	-386.77	149.74	2,504.54	2,426.59	77.95	32.131	
19,101.33	8,289.00	8,284.77	8,282.46	50.05	28.82	-89.87	-386.77	149.74	2,504.57	2,426.61	77.95	32.130	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	159.76	-332.44	122.56	354.31				
100.00	100.00	96.35	96.34	0.28	0.16	159.95	-333.17	121.61	354.68	354.25	0.43	825.926	
200.00	200.00	194.52	194.45	0.63	0.42	160.47	-335.27	118.94	355.77	354.72	1.05	339.306	
300.00	300.00	294.87	294.69	0.99	0.78	161.18	-337.87	115.17	356.98	355.21	1.77	201.475	
400.00	400.00	394.27	393.96	1.35	1.14	161.97	-340.65	110.89	358.27	355.78	2.49	143.689	
500.00	500.00	493.53	493.09	1.71	1.51	162.75	-343.59	106.68	359.82	356.61	3.21	111.942	
600.00	600.00	592.65	592.09	2.07	1.87	163.49	-346.62	102.72	361.59	357.66	3.93	91.905	
700.00	700.00	692.37	691.67	2.43	2.24	164.25	-349.85	98.65	363.57	358.91	4.66	78.089	
800.00	800.00	792.21	791.46	2.79	2.59	164.65	-352.49	96.74	365.60	360.23	5.37	68.092	
900.00	900.00	892.79	892.02	3.14	2.94	164.66	-354.45	97.25	367.61	361.54	6.07	60.518	
1,000.00	1,000.00	993.30	992.51	3.50	3.29	164.59	-356.10	98.14	369.43	362.65	6.78	54.504	
1,100.00	1,100.00	1,094.85	1,094.04	3.86	3.64	164.54	-357.52	98.91	370.99	363.50	7.49	49.545	
1,200.00	1,200.00	1,195.11	1,194.29	4.22	3.98	164.45	-358.60	99.79	372.25	364.06	8.19	45.435	
1,300.00	1,300.00	1,293.51	1,292.68	4.58	4.33	164.37	-359.90	100.72	373.79	364.89	8.89	42.028	
1,400.00	1,400.00	1,394.19	1,393.34	4.94	4.68	164.26	-361.28	101.83	375.40	365.80	9.60	39.086	
1,500.00	1,500.00	1,495.10	1,494.24	5.29	5.03	164.17	-362.45	102.75	376.77	366.45	10.32	36.519	
1,600.00	1,600.00	1,595.56	1,594.69	5.65	5.39	164.12	-363.51	103.44	377.97	366.94	11.03	34.267	
1,700.00	1,700.00	1,696.22	1,695.35	6.01	5.75	164.10	-364.51	103.85	379.04	367.29	11.75	32.270	
1,800.00	1,800.00	1,797.30	1,796.43	6.37	6.11	164.11	-365.35	103.98	379.87	367.40	12.46	30.476	
1,900.00	1,899.98	1,897.95	1,897.07	6.72	6.47	59.61	-365.87	104.20	379.54	366.37	13.17	28.821	
2,000.00	1,999.84	1,997.83	1,996.95	7.06	6.81	60.20	-366.11	105.21	377.41	363.55	13.85	27.241	
2,100.00	2,099.45	2,093.38	2,092.47	7.40	7.14	61.03	-366.37	107.50	374.01	359.48	14.53	25.748	
2,200.00	2,198.70	2,190.06	2,189.10	7.74	7.48	62.33	-367.78	110.32	370.30	355.09	15.20	24.354	
2,300.00	2,297.47	2,287.00	2,285.93	8.09	7.82	63.96	-369.44	114.41	365.75	349.86	15.89	23.021	
2,400.00	2,395.62	2,390.41	2,389.23	8.44	8.18	66.22	-371.13	119.10	360.06	343.46	16.60	21.690	
2,491.84	2,485.13	2,484.97	2,483.75	8.76	8.51	69.15	-371.52	121.43	352.78	335.53	17.25	20.449	
2,500.00	2,493.06	2,493.27	2,492.05	8.79	8.54	69.44	-371.51	121.54	352.08	334.77	17.31	20.340	
2,600.00	2,590.16	2,591.11	2,589.87	9.14	8.88	72.82	-371.27	123.20	344.03	326.03	18.00	19.109	
2,700.00	2,687.25	2,687.56	2,686.30	9.50	9.22	76.22	-371.10	125.32	337.33	318.63	18.70	18.040	
2,800.00	2,784.35	2,785.46	2,784.18	9.86	9.56	79.81	-371.07	127.36	332.11	312.70	19.40	17.115	
2,900.00	2,881.45	2,883.05	2,881.75	10.23	9.90	83.46	-370.98	129.50	328.19	308.08	20.11	16.318	
3,000.00	2,978.55	2,981.32	2,979.99	10.60	10.25	87.19	-370.80	131.77	325.59	304.76	20.83	15.634	
3,100.00	3,075.65	3,078.56	3,077.20	10.96	10.59	90.93	-370.58	134.01	324.40	302.86	21.54	15.062	
3,129.33	3,104.13	3,107.25	3,105.89	11.07	10.69	92.04	-370.52	134.66	324.34	302.59	21.75	14.914	CC
3,200.00	3,172.74	3,176.35	3,174.97	11.34	10.93	94.72	-370.33	136.13	324.70	302.44	22.25	14.591	ES
3,300.00	3,269.84	3,274.34	3,272.93	11.71	11.27	98.46	-370.05	138.48	326.35	303.38	22.97	14.206	
3,400.00	3,366.94	3,371.55	3,370.11	12.08	11.62	102.08	-369.90	141.01	329.46	305.77	23.69	13.907	
3,500.00	3,464.04	3,468.86	3,467.39	12.46	11.96	105.66	-369.73	143.34	334.01	309.60	24.41	13.684	
3,600.00	3,561.14	3,565.77	3,564.28	12.83	12.30	109.16	-369.59	145.32	340.11	314.99	25.12	13.537	
3,700.00	3,658.24	3,663.62	3,662.11	13.21	12.65	112.58	-369.38	147.29	347.47	321.63	25.85	13.444	
3,800.00	3,755.33	3,760.14	3,758.61	13.59	12.99	115.80	-369.26	149.16	356.17	329.61	26.56	13.410	
3,900.00	3,852.43	3,856.72	3,855.18	13.97	13.33	118.88	-369.33	150.74	366.33	339.06	27.28	13.431	
4,000.00	3,949.53	3,954.12	3,952.56	14.35	13.68	121.79	-369.60	152.48	377.58	349.59	28.00	13.487	
4,100.00	4,046.63	4,050.86	4,049.29	14.73	14.03	124.54	-369.80	153.92	389.95	361.23	28.71	13.581	
4,200.00	4,143.73	4,147.96	4,146.38	15.11	14.37	127.12	-370.14	155.35	403.28	373.85	29.43	13.703	
4,300.00	4,240.82	4,244.45	4,242.86	15.50	14.72	129.50	-370.64	156.73	417.52	387.38	30.15	13.850	
4,400.00	4,337.92	4,340.89	4,339.29	15.88	15.06	131.71	-371.42	157.95	432.75	401.89	30.86	14.023	
4,500.00	4,435.02	4,438.13	4,436.52	16.27	15.41	133.81	-372.12	159.01	448.70	417.12	31.58	14.208	
4,600.00	4,532.12	4,535.37	4,533.75	16.65	15.76	135.76	-372.89	160.09	465.23	432.93	32.30	14.402	
4,700.00	4,629.22	4,632.47	4,630.85	17.04	16.11	137.57	-373.66	161.10	482.31	449.29	33.02	14.605	
4,800.00	4,726.31	4,728.82	4,727.19	17.42	16.45	139.26	-374.42	162.00	499.94	466.20	33.74	14.818	
4,900.00	4,823.41	4,824.75	4,823.11	17.81	16.80	140.83	-375.28	162.65	518.26	483.80	34.45	15.043	

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 3H
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 3H	**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
5,000.00	4,920.51	4,921.38	4,919.74	18.20	17.14	142.29	-376.31	163.15	537.13	501.96	35.17	15.273	
5,100.00	5,017.61	5,018.73	5,017.08	18.58	17.49	143.67	-377.31	163.60	556.38	520.49	35.89	15.502	
5,200.00	5,114.71	5,117.52	5,115.86	18.97	17.84	144.97	-378.39	164.20	575.81	539.19	36.62	15.722	
5,300.00	5,211.80	5,214.98	5,213.31	19.36	18.19	146.16	-379.45	165.03	595.27	557.92	37.35	15.938	
5,400.00	5,308.90	5,313.02	5,311.34	19.75	18.54	147.27	-380.64	165.88	614.99	576.91	38.08	16.150	
5,500.00	5,406.00	5,409.62	5,407.92	20.14	18.89	148.27	-382.03	166.86	634.84	596.04	38.80	16.362	
5,600.00	5,503.10	5,504.00	5,502.29	20.53	19.22	149.19	-383.48	167.54	655.18	615.67	39.51	16.585	
5,700.00	5,600.20	5,599.16	5,597.43	20.91	19.56	150.07	-384.99	167.80	676.10	635.89	40.21	16.813	
5,800.00	5,697.30	5,695.90	5,694.16	21.30	19.90	150.90	-386.70	167.92	697.37	656.43	40.93	17.037	
5,900.00	5,794.39	5,792.47	5,790.71	21.69	20.25	151.68	-388.41	168.00	718.81	677.15	41.65	17.257	
6,000.00	5,891.49	5,887.17	5,885.40	22.09	20.58	152.40	-390.18	167.90	740.56	698.21	42.36	17.484	
6,100.00	5,988.59	5,984.15	5,982.36	22.48	20.92	153.08	-392.24	167.61	762.66	719.59	43.08	17.704	
6,200.00	6,085.69	6,084.14	6,082.33	22.87	21.28	153.74	-394.28	167.48	784.68	740.86	43.82	17.905	
6,300.00	6,182.79	6,183.09	6,181.27	23.26	21.63	154.40	-395.68	167.58	806.47	761.91	44.56	18.098	
6,400.00	6,279.88	6,279.30	6,277.47	23.65	21.97	155.02	-396.87	167.68	828.31	783.03	45.28	18.293	
6,500.00	6,376.98	6,377.79	6,375.95	24.04	22.32	155.63	-398.08	167.78	850.25	804.23	46.02	18.477	
6,600.00	6,474.08	6,486.44	6,484.59	24.43	22.70	156.33	-398.24	168.56	871.52	824.70	46.82	18.616	
6,700.00	6,571.18	6,587.81	6,585.95	24.82	23.05	157.03	-397.06	170.00	892.05	844.49	47.56	18.757	
6,800.00	6,668.28	6,685.57	6,683.68	25.22	23.39	157.70	-395.46	171.62	912.39	864.11	48.28	18.899	
6,900.00	6,765.37	6,778.23	6,776.32	25.61	23.70	158.33	-393.66	172.81	933.19	884.23	48.96	19.060	
7,000.00	6,862.47	6,871.15	6,869.23	26.00	24.02	158.91	-392.37	173.79	954.37	904.73	49.64	19.224	
7,100.00	6,959.57	6,949.00	6,947.07	26.39	24.28	159.36	-391.67	173.61	976.95	926.73	50.22	19.455	
7,200.00	7,056.67	7,038.87	7,036.92	26.78	24.58	159.83	-391.34	172.24	1,000.90	950.03	50.87	19.677	
7,300.00	7,153.77	7,144.48	7,142.53	27.18	24.94	160.36	-391.01	170.68	1,024.87	973.23	51.64	19.847	
7,400.00	7,250.86	7,239.87	7,237.90	27.57	25.25	160.83	-390.30	169.63	1,048.52	996.19	52.33	20.036	
7,500.00	7,347.96	7,328.77	7,326.79	27.96	25.55	161.26	-389.60	168.23	1,072.69	1,019.71	52.98	20.248	
7,600.00	7,445.06	7,425.97	7,423.97	28.36	25.88	161.71	-388.79	166.39	1,097.23	1,043.55	53.69	20.438	
7,700.00	7,542.16	7,516.77	7,514.75	28.75	26.18	162.13	-387.88	164.51	1,122.00	1,067.66	54.35	20.645	
7,800.00	7,639.26	7,602.89	7,600.83	29.14	26.47	162.50	-386.98	162.05	1,147.58	1,092.61	54.97	20.877	
7,900.00	7,736.36	7,690.89	7,688.76	29.54	26.77	162.88	-386.04	158.83	1,173.99	1,118.39	55.61	21.113	
7,902.86	7,739.13	7,693.40	7,691.27	29.55	26.77	162.89	-386.02	158.73	1,174.76	1,119.13	55.62	21.120	
7,950.00	7,784.76	7,736.87	7,734.70	29.73	26.92	144.78	-385.63	156.94	1,187.23	1,131.28	55.94	21.223	
8,000.00	7,832.63	7,783.28	7,781.07	29.93	27.08	130.35	-385.48	155.00	1,200.03	1,143.75	56.28	21.323	
8,050.00	7,879.58	7,836.41	7,834.16	30.12	27.26	120.39	-385.57	152.86	1,212.30	1,155.63	56.68	21.390	
8,100.00	7,925.27	7,892.22	7,889.94	30.31	27.45	113.63	-385.74	151.05	1,223.78	1,166.68	57.09	21.435	
8,150.00	7,969.35	7,950.57	7,948.27	30.49	27.65	109.09	-385.93	149.75	1,234.47	1,176.94	57.53	21.459	
8,200.00	8,011.47	8,005.32	8,003.02	30.67	27.83	105.97	-386.06	149.16	1,244.46	1,186.53	57.93	21.482	
8,250.00	8,051.32	8,053.80	8,051.50	30.83	28.00	103.73	-386.16	149.03	1,254.08	1,195.79	58.29	21.515	
8,300.00	8,088.60	8,096.49	8,094.18	30.99	28.15	102.07	-386.24	149.18	1,263.59	1,204.99	58.61	21.561	
8,350.00	8,123.02	8,130.89	8,128.58	31.14	28.28	100.67	-386.31	149.35	1,273.36	1,214.50	58.87	21.632	
8,400.00	8,154.32	8,162.20	8,159.90	31.28	28.39	99.51	-386.39	149.51	1,283.61	1,224.51	59.10	21.718	
8,450.00	8,182.27	8,189.43	8,187.12	31.42	28.48	98.47	-386.46	149.63	1,294.48	1,235.17	59.31	21.826	
8,500.00	8,206.64	8,212.21	8,209.91	31.54	28.56	97.42	-386.52	149.71	1,306.11	1,246.63	59.48	21.958	
8,550.00	8,227.26	8,231.52	8,229.21	31.66	28.63	96.34	-386.58	149.75	1,318.61	1,258.98	59.63	22.113	
8,600.00	8,243.96	8,247.20	8,244.90	31.78	28.69	95.18	-386.63	149.77	1,332.00	1,272.26	59.75	22.294	
8,621.67	8,249.95	8,252.84	8,250.54	31.83	28.71	94.65	-386.65	149.77	1,338.10	1,278.31	59.79	22.380	
8,700.00	8,267.63	8,269.54	8,267.24	32.00	28.77	94.08	-386.71	149.76	1,362.58	1,302.66	59.91	22.743	
8,800.00	8,282.55	8,283.56	8,281.25	32.23	28.82	92.69	-386.76	149.74	1,399.86	1,339.86	60.01	23.328	
8,900.00	8,288.79	8,289.63	8,287.33	32.46	28.84	90.55	-386.79	149.73	1,443.40	1,383.37	60.04	24.042	
8,921.67	8,289.00	8,289.90	8,287.60	32.51	28.84	89.98	-386.79	149.73	1,453.59	1,393.56	60.03	24.213	
9,000.00	8,289.00	8,290.21	8,287.90	32.69	28.84	90.00	-386.79	149.73	1,492.47	1,432.45	60.02	24.868	
9,100.00	8,289.00	8,290.60	8,288.30	32.94	28.84	90.01	-386.79	149.73	1,546.45	1,486.46	59.99	25.778	

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 3H
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 3H	**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
9,200.00	8,289.00	8,291.00	8,288.69	33.20	28.84	90.03	-386.79	149.73	1,604.86	1,544.89	59.96	26.764	
9,300.00	8,289.00	8,291.40	8,289.09	33.48	28.84	90.05	-386.80	149.73	1,667.22	1,607.28	59.93	27.817	
9,400.00	8,289.00	8,291.80	8,289.50	33.77	28.84	90.07	-386.80	149.73	1,733.11	1,673.20	59.91	28.930	
9,500.00	8,289.00	8,292.20	8,289.90	34.07	28.85	90.09	-386.80	149.72	1,802.14	1,742.26	59.88	30.096	
9,600.00	8,289.00	8,292.61	8,290.31	34.38	28.85	90.10	-386.80	149.72	1,873.97	1,814.11	59.85	31.309	
9,700.00	8,289.00	8,293.02	8,290.72	34.70	28.85	90.12	-386.80	149.72	1,948.28	1,888.45	59.83	32.562	
9,800.00	8,289.00	8,293.44	8,291.13	35.04	28.85	90.14	-386.81	149.72	2,024.81	1,965.00	59.81	33.852	
9,900.00	8,289.00	8,293.85	8,291.55	35.39	28.85	90.16	-386.81	149.72	2,103.31	2,043.51	59.80	35.175	
10,000.00	8,289.00	8,294.27	8,291.97	35.75	28.85	90.18	-386.81	149.72	2,183.56	2,123.78	59.78	36.525	
10,100.00	8,289.00	8,294.69	8,292.39	36.12	28.85	90.20	-386.81	149.72	2,265.39	2,205.62	59.77	37.901	
10,200.00	8,289.00	8,295.12	8,292.81	36.51	28.86	90.22	-386.81	149.72	2,348.63	2,288.86	59.76	39.298	
10,300.00	8,289.00	8,295.55	8,293.24	36.90	28.86	90.24	-386.81	149.71	2,433.12	2,373.36	59.76	40.716	
10,400.00	8,289.00	8,295.98	8,293.67	37.31	28.86	90.25	-386.82	149.71	2,518.76	2,459.00	59.76	42.150	
10,500.00	8,289.00	8,296.41	8,294.11	37.72	28.86	90.27	-386.82	149.71	2,605.41	2,545.66	59.76	43.600	
10,600.00	8,289.00	8,296.85	8,294.55	38.15	28.86	90.29	-386.82	149.71	2,692.99	2,633.23	59.76	45.063	
10,700.00	8,289.00	8,297.29	8,294.99	38.58	28.86	90.31	-386.82	149.71	2,781.41	2,721.65	59.77	46.537	
10,800.00	8,289.00	13,149.00	10,749.66	39.03	53.12	151.57	-3,061.93	107.39	2,801.14	2,732.31	68.84	40.693	
10,900.00	8,289.00	13,215.48	10,748.55	39.48	53.81	151.61	-3,128.33	110.41	2,797.81	2,727.95	69.86	40.048	
11,000.00	8,289.00	13,278.16	10,748.06	39.94	54.46	151.63	-3,190.98	112.16	2,795.99	2,725.10	70.88	39.446	
11,100.00	8,289.00	13,396.92	10,749.03	40.41	55.72	151.71	-3,309.64	116.67	2,795.24	2,722.94	72.30	38.664	
11,200.00	8,289.00	13,528.00	10,748.52	40.89	57.14	151.84	-3,440.48	124.38	2,792.16	2,718.36	73.80	37.835	
11,300.00	8,289.00	13,590.68	10,747.55	41.38	57.83	151.86	-3,503.13	126.17	2,789.73	2,714.87	74.86	37.266	
11,400.00	8,289.00	13,684.75	10,747.05	41.88	58.87	151.88	-3,597.17	127.93	2,788.57	2,712.39	76.18	36.606	
11,500.00	8,289.00	13,783.36	10,745.19	42.38	59.97	151.85	-3,695.76	128.22	2,786.97	2,709.40	77.58	35.926	
11,600.00	8,289.00	13,855.43	10,743.61	42.89	60.77	151.81	-3,767.81	127.12	2,786.01	2,707.22	78.78	35.363	
11,630.39	8,289.00	13,875.21	10,743.12	43.05	61.00	151.79	-3,787.56	126.37	2,785.95	2,706.81	79.14	35.203	
11,700.00	8,289.00	13,908.00	10,742.23	43.41	61.36	151.75	-3,820.30	124.64	2,786.30	2,706.45	79.85	34.894	
11,800.00	8,289.00	13,978.54	10,740.60	43.93	62.16	151.64	-3,890.65	119.68	2,787.91	2,706.80	81.11	34.373	
11,900.00	8,289.00	14,090.99	10,738.64	44.46	63.43	151.45	-4,002.72	110.62	2,790.48	2,707.68	82.79	33.704	
12,000.00	8,289.00	14,266.05	10,734.35	45.00	65.46	151.23	-4,177.46	101.53	2,790.99	2,705.93	85.06	32.811	
12,100.00	8,289.00	14,464.29	10,730.17	45.55	67.82	151.24	-4,375.59	105.30	2,788.37	2,700.99	87.38	31.912	
12,200.00	8,289.00	14,555.38	10,728.40	46.10	68.92	151.31	-4,466.51	110.43	2,784.17	2,695.44	88.74	31.375	
12,300.00	8,289.00	14,630.12	10,727.64	46.65	69.83	151.37	-4,541.11	114.85	2,780.67	2,690.70	89.97	30.908	
12,400.00	8,289.00	14,716.75	10,726.58	47.21	70.89	151.41	-4,627.68	118.04	2,778.02	2,686.70	91.32	30.420	
12,500.00	8,289.00	14,791.45	10,724.72	47.78	71.80	151.40	-4,702.35	118.65	2,775.73	2,683.11	92.62	29.969	
12,600.00	8,289.00	14,857.00	10,723.82	48.35	72.61	151.38	-4,767.89	118.10	2,775.00	2,681.15	93.85	29.570	
12,688.51	8,289.00	14,994.22	10,721.78	48.86	74.30	151.32	-4,905.08	116.55	2,774.85	2,679.16	95.69	28.997	
12,700.00	8,289.00	15,053.38	10,720.96	48.93	75.04	151.32	-4,964.17	119.13	2,774.50	2,678.23	96.27	28.820	
12,736.87	8,289.00	15,089.23	10,720.53	49.15	75.49	151.27	-4,999.95	121.36	2,773.96	2,677.13	96.83	28.647	
12,750.00	8,289.00	15,101.99	10,720.36	49.23	75.65	151.27	-5,012.68	122.13	2,774.03	2,676.99	97.04	28.586	
12,800.00	8,289.00	15,150.39	10,719.69	49.53	76.27	151.31	-5,061.00	124.93	2,775.56	2,677.68	97.87	28.358	
12,850.00	8,289.00	15,198.22	10,718.95	49.84	76.87	151.45	-5,108.75	127.51	2,779.09	2,680.32	98.77	28.137	
12,900.00	8,289.00	15,237.00	10,718.30	50.15	77.36	151.73	-5,147.48	129.47	2,784.66	2,685.00	99.66	27.943	
12,950.00	8,289.00	15,271.29	10,717.84	50.47	77.79	152.17	-5,181.73	131.13	2,792.41	2,691.85	100.56	27.769	
13,000.00	8,289.00	15,311.42	10,717.55	50.79	78.30	152.70	-5,221.80	133.05	2,802.39	2,700.82	101.57	27.590	
13,050.00	8,289.00	15,325.00	10,717.45	51.10	78.48	153.64	-5,235.37	133.70	2,814.51	2,712.12	102.40	27.487	
13,100.00	8,289.00	15,325.00	10,717.45	51.40	78.48	154.94	-5,235.37	133.70	2,829.19	2,726.05	103.13	27.432	
13,150.00	8,289.00	15,325.00	10,717.45	51.70	78.48	156.50	-5,235.37	133.70	2,846.30	2,742.41	103.90	27.396	
13,200.00	8,289.00	15,325.00	10,717.45	51.99	78.48	158.33	-5,235.37	133.70	2,865.70	2,761.02	104.68	27.375	
13,250.00	8,289.00	15,325.00	10,717.45	52.26	78.48	160.44	-5,235.37	133.70	2,887.21	2,781.73	105.49	27.370	
13,300.00	8,289.00	15,325.00	10,717.45	52.52	78.48	162.81	-5,235.37	133.70	2,910.64	2,804.34	106.30	27.381	
13,350.00	8,289.00	15,325.00	10,717.45	52.77	78.48	165.44	-5,235.37	133.70	2,935.79	2,828.66	107.13	27.404	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	8,289.00	15,325.00	10,717.45	53.00	78.48	168.33	-5,235.37	133.70	2,962.44	2,854.48	107.96	27.440	
13,450.00	8,289.00	15,325.00	10,717.45	53.20	78.48	171.46	-5,235.37	133.70	2,990.38	2,881.59	108.79	27.488	
13,500.00	8,289.00	15,325.00	10,717.45	53.39	78.48	174.79	-5,235.37	133.70	3,019.38	2,909.76	109.61	27.546	
13,550.00	8,289.00	15,325.00	10,717.45	53.55	78.48	178.28	-5,235.37	133.70	3,049.22	2,938.79	110.43	27.612	
13,600.00	8,289.00	15,325.00	10,717.45	53.69	78.48	-178.10	-5,235.37	133.70	3,079.69	2,968.45	111.24	27.686	
13,650.00	8,289.00	15,325.00	10,717.45	53.80	78.48	-174.41	-5,235.37	133.70	3,110.55	2,998.52	112.03	27.766	
13,700.00	8,289.00	15,325.00	10,717.45	53.89	78.48	-170.71	-5,235.37	133.70	3,141.60	3,028.80	112.80	27.851	
13,750.00	8,289.00	15,325.00	10,717.45	53.96	78.48	-167.06	-5,235.37	133.70	3,172.61	3,059.06	113.55	27.940	
13,800.00	8,289.00	15,325.00	10,717.45	54.00	78.48	-163.50	-5,235.37	133.70	3,203.39	3,089.11	114.28	28.032	
13,850.00	8,289.00	15,325.00	10,717.45	54.02	78.48	-160.08	-5,235.37	133.70	3,233.73	3,118.75	114.98	28.125	
13,900.00	8,289.00	15,325.00	10,717.45	54.01	78.48	-156.85	-5,235.37	133.70	3,263.45	3,147.80	115.65	28.219	
13,950.00	8,289.00	15,325.00	10,717.45	53.99	78.48	-153.81	-5,235.37	133.70	3,292.36	3,176.07	116.29	28.312	
14,000.00	8,289.00	15,325.00	10,717.45	53.94	78.48	-151.00	-5,235.37	133.70	3,320.30	3,203.40	116.89	28.404	
14,050.00	8,289.00	15,325.00	10,717.45	53.88	78.48	-148.42	-5,235.37	133.70	3,347.09	3,229.63	117.47	28.494	
14,100.00	8,289.00	15,325.00	10,717.45	53.80	78.48	-146.07	-5,235.37	133.70	3,372.60	3,254.60	118.00	28.581	
14,150.00	8,289.00	15,325.00	10,717.45	53.70	78.48	-143.95	-5,235.37	133.70	3,396.67	3,278.17	118.50	28.664	
14,200.00	8,289.00	15,325.00	10,717.45	53.59	78.48	-142.05	-5,235.37	133.70	3,419.18	3,300.22	118.96	28.742	
14,250.00	8,289.00	15,325.00	10,717.45	53.47	78.48	-140.37	-5,235.37	133.70	3,440.01	3,320.63	119.38	28.815	
14,300.00	8,289.00	15,325.00	10,717.45	53.33	78.48	-138.89	-5,235.37	133.70	3,459.05	3,339.29	119.76	28.883	
14,350.00	8,289.00	15,303.12	10,717.61	53.20	78.20	-137.49	-5,213.52	132.66	3,476.12	3,356.27	119.85	29.003	
14,400.00	8,289.00	15,266.20	10,717.89	53.05	77.73	-136.25	-5,176.64	130.88	3,490.74	3,370.99	119.74	29.152	
14,450.00	8,289.00	15,237.00	10,718.30	52.91	77.36	-135.30	-5,147.48	129.47	3,502.86	3,383.17	119.69	29.266	
14,500.00	8,289.00	15,194.55	10,719.01	52.76	76.82	-134.54	-5,105.09	127.32	3,512.36	3,392.90	119.47	29.401	
14,530.51	8,289.00	15,167.91	10,719.43	52.67	76.49	-134.19	-5,078.49	125.89	3,516.79	3,397.48	119.31	29.477	
14,600.00	8,289.00	15,106.84	10,720.30	52.46	75.72	-133.94	-5,017.52	122.42	3,524.91	3,405.98	118.93	29.639	
14,700.00	8,289.00	14,829.36	10,724.07	52.18	72.27	-133.66	-4,740.25	118.44	3,529.25	3,413.07	116.18	30.377	
14,762.01	8,289.00	14,800.18	10,724.54	52.01	71.91	-133.65	-4,711.08	118.63	3,530.13	3,414.00	116.13	30.398	
14,800.00	8,289.00	14,762.00	10,725.47	51.90	71.44	-133.66	-4,672.91	118.62	3,530.66	3,414.80	115.86	30.474	
14,900.00	8,289.00	14,722.87	10,726.46	51.64	70.96	-133.67	-4,633.79	118.17	3,532.54	3,416.69	115.86	30.490	
15,000.00	8,289.00	14,667.00	10,727.30	51.38	70.28	-133.66	-4,577.96	116.51	3,535.52	3,419.86	115.66	30.567	
15,100.00	8,289.00	14,597.35	10,727.96	51.14	69.43	-133.64	-4,508.40	113.07	3,539.52	3,424.19	115.33	30.691	
15,200.00	8,289.00	14,515.65	10,729.02	50.90	68.44	-133.60	-4,426.86	108.05	3,544.52	3,429.65	114.87	30.856	
15,300.00	8,289.00	14,072.60	10,739.01	50.66	63.22	-133.78	-3,984.38	112.02	3,546.15	3,435.71	110.44	32.110	
15,400.00	8,289.00	13,971.26	10,740.73	50.44	62.08	-133.90	-3,883.38	120.25	3,541.14	3,431.31	109.82	32.244	
15,500.00	8,289.00	13,908.00	10,742.23	50.23	61.36	-133.97	-3,820.30	124.64	3,537.32	3,427.65	109.67	32.256	
15,600.00	8,289.00	13,874.69	10,743.13	50.02	60.99	-134.00	-3,787.05	126.39	3,534.85	3,425.01	109.84	32.182	
15,700.00	8,289.00	13,813.00	10,744.57	49.82	60.30	-134.04	-3,725.40	128.01	3,534.06	3,424.36	109.70	32.215	
15,719.84	8,289.00	13,813.00	10,744.57	49.79	60.30	-134.04	-3,725.40	128.01	3,534.01	3,424.21	109.80	32.185	
15,800.00	8,289.00	13,766.45	10,745.53	49.64	59.78	-134.05	-3,678.86	128.28	3,534.50	3,424.77	109.72	32.212	
15,900.00	8,289.00	13,680.61	10,747.10	49.46	58.82	-134.07	-3,593.04	127.89	3,535.77	3,426.42	109.35	32.334	
16,000.00	8,289.00	13,597.82	10,747.50	49.29	57.90	-134.06	-3,510.26	126.35	3,537.16	3,428.13	109.03	32.443	
16,100.00	8,289.00	13,528.00	10,748.52	49.13	57.14	-134.06	-3,440.48	124.38	3,539.75	3,430.91	108.84	32.524	
16,200.00	8,289.00	13,481.71	10,749.26	48.98	56.64	-134.04	-3,394.24	122.38	3,543.41	3,434.54	108.86	32.549	
16,300.00	8,289.00	13,290.20	10,748.06	48.84	54.59	-133.93	-3,203.02	112.50	3,546.42	3,438.82	107.60	32.958	
16,400.00	8,289.00	13,244.00	10,748.24	48.71	54.11	-133.92	-3,156.84	111.26	3,548.57	3,440.91	107.66	32.961	
16,500.00	8,289.00	13,180.70	10,749.06	48.59	53.45	-133.91	-3,093.58	109.01	3,551.90	3,444.33	107.57	33.020	
16,600.00	8,289.00	8,293.69	8,291.38	48.48	28.85	-90.08	-386.81	149.72	3,509.19	3,443.94	65.25	53.784	
16,700.00	8,289.00	8,293.30	8,291.00	48.38	28.85	-90.07	-386.80	149.72	3,439.88	3,374.31	65.57	52.462	
16,800.00	8,289.00	8,292.92	8,290.62	48.29	28.85	-90.06	-386.80	149.72	3,372.10	3,306.19	65.92	51.157	
16,900.00	8,289.00	8,292.54	8,290.24	48.21	28.85	-90.05	-386.80	149.72	3,305.97	3,239.68	66.29	49.872	
17,000.00	8,289.00	8,292.16	8,289.86	48.15	28.85	-90.04	-386.80	149.72	3,241.57	3,174.88	66.69	48.609	
17,100.00	8,289.00	8,291.79	8,289.48	48.09	28.84	-90.03	-386.80	149.73	3,179.01	3,111.90	67.11	47.370	

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 3H
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 3H	**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
17,200.00	8,289.00	8,291.42	8,289.11	48.05	28.84	-90.03	-386.80	149.73	3,118.40	3,050.84	67.56	46.159	
17,300.00	8,289.00	8,291.05	8,288.74	48.01	28.84	-90.02	-386.80	149.73	3,059.86	2,991.83	68.03	44.978	
17,400.00	8,289.00	8,290.68	8,288.37	47.99	28.84	-90.01	-386.79	149.73	3,003.51	2,934.98	68.53	43.829	
17,500.00	8,289.00	8,290.31	8,288.01	47.99	28.84	-90.00	-386.79	149.73	2,949.48	2,880.43	69.05	42.716	
17,600.00	8,289.00	8,289.95	8,287.65	47.99	28.84	-89.99	-386.79	149.73	2,897.89	2,828.30	69.59	41.641	
17,700.00	8,289.00	8,289.59	8,287.29	48.01	28.84	-89.98	-386.79	149.73	2,848.88	2,778.72	70.16	40.608	
17,800.00	8,289.00	8,289.23	8,286.93	48.04	28.84	-89.98	-386.79	149.73	2,802.58	2,731.84	70.74	39.620	
17,900.00	8,289.00	8,288.88	8,286.57	48.08	28.83	-89.97	-386.79	149.73	2,759.12	2,687.79	71.33	38.680	
18,000.00	8,289.00	8,288.52	8,286.22	48.14	28.83	-89.96	-386.78	149.73	2,718.66	2,646.72	71.94	37.790	
18,100.00	8,289.00	8,288.17	8,285.87	48.21	28.83	-89.95	-386.78	149.73	2,681.31	2,608.75	72.56	36.955	
18,200.00	8,289.00	8,287.82	8,285.52	48.29	28.83	-89.94	-386.78	149.74	2,647.22	2,574.04	73.18	36.176	
18,300.00	8,289.00	8,287.47	8,285.17	48.39	28.83	-89.94	-386.78	149.74	2,616.50	2,542.71	73.80	35.456	
18,400.00	8,289.00	8,287.13	8,284.82	48.50	28.83	-89.93	-386.78	149.74	2,589.29	2,514.88	74.41	34.798	
18,500.00	8,289.00	8,286.79	8,284.48	48.63	28.83	-89.92	-386.78	149.74	2,565.69	2,490.68	75.01	34.204	
18,600.00	8,289.00	8,286.44	8,284.14	48.76	28.83	-89.91	-386.78	149.74	2,545.80	2,470.20	75.60	33.676	
18,700.00	8,289.00	8,286.11	8,283.80	48.92	28.82	-89.90	-386.77	149.74	2,529.71	2,453.55	76.16	33.215	
18,800.00	8,289.00	8,285.77	8,283.47	49.08	28.82	-89.90	-386.77	149.74	2,517.49	2,440.79	76.70	32.823	
18,900.00	8,289.00	8,285.43	8,283.13	49.26	28.82	-89.89	-386.77	149.74	2,509.20	2,431.99	77.20	32.501	
19,000.00	8,289.00	8,285.10	8,282.80	49.46	28.82	-89.88	-386.77	149.74	2,504.88	2,427.20	77.67	32.249	
19,058.35	8,289.00	8,284.91	8,282.61	49.59	28.82	-89.88	-386.77	149.74	2,504.20	2,426.35	77.85	32.167	
19,100.00	8,289.00	8,284.77	8,282.47	50.02	28.82	-89.87	-386.77	149.74	2,504.54	2,426.59	77.95	32.131	
19,101.33	8,289.00	8,284.77	8,282.46	50.05	28.82	-89.87	-386.77	149.74	2,504.57	2,426.61	77.95	32.130	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	57.58	4,596.73	4,597.36				
100.00	100.00	53.92	53.92	0.28	0.71	89.28	57.55	4,596.71	4,597.07	4,596.08	0.99	4,656.887	
200.00	200.00	184.38	184.38	0.63	0.83	89.28	57.45	4,596.02	4,596.51	4,595.04	1.47	3,137.147	
300.00	300.00	343.41	343.38	0.99	1.23	89.28	57.99	4,593.32	4,594.64	4,592.42	2.21	2,075.719	
400.00	400.00	443.01	442.96	1.35	1.53	89.27	58.57	4,591.30	4,592.61	4,589.74	2.87	1,600.137	
500.00	500.00	528.34	528.28	1.71	1.80	89.27	58.83	4,589.61	4,590.65	4,587.16	3.50	1,312.133	
600.00	600.00	600.00	599.92	2.07	2.03	89.26	59.42	4,588.68	4,589.33	4,585.24	4.09	1,122.073	
700.00	700.00	666.55	666.46	2.43	2.25	89.25	60.31	4,588.26	4,588.68	4,584.01	4.67	982.897	
800.00	800.00	758.48	758.38	2.79	2.55	89.23	61.90	4,588.08	4,588.50	4,583.17	5.33	860.076	
900.00	900.00	867.77	867.65	3.14	2.92	89.20	64.17	4,587.74	4,588.23	4,582.16	6.06	756.612	
1,000.00	1,000.00	992.60	992.44	3.50	3.35	89.16	67.20	4,586.93	4,587.62	4,580.77	6.85	669.632	
1,100.00	1,100.00	1,143.74	1,143.50	3.86	3.87	89.11	71.55	4,584.60	4,586.11	4,578.38	7.73	593.126	
1,200.00	1,200.00	1,268.08	1,267.79	4.22	4.30	89.08	73.44	4,581.63	4,583.73	4,575.22	8.52	538.060	
1,300.00	1,300.00	1,379.53	1,379.20	4.58	4.69	89.08	73.33	4,578.62	4,581.03	4,571.77	9.26	494.628	
1,400.00	1,400.00	1,499.65	1,499.25	4.94	5.10	89.09	72.28	4,575.01	4,578.01	4,567.98	10.03	456.207	
1,500.00	1,500.00	1,603.41	1,602.95	5.29	5.46	89.11	70.89	4,571.61	4,574.71	4,563.96	10.75	425.422	
1,600.00	1,600.00	1,713.35	1,712.81	5.65	5.85	89.13	69.14	4,567.77	4,571.19	4,559.70	11.49	397.712	
1,700.00	1,700.00	1,800.00	1,799.40	6.01	6.15	89.15	67.55	4,564.99	4,567.93	4,555.78	12.15	375.818	
1,800.00	1,800.00	1,851.42	1,850.79	6.37	6.33	89.16	66.52	4,563.69	4,565.29	4,552.59	12.69	359.640	
1,900.00	1,899.98	1,900.00	1,899.35	6.72	6.50	-15.57	65.53	4,562.79	4,561.85	4,548.64	13.21	345.296	
2,000.00	1,999.84	1,974.04	1,973.38	7.06	6.76	-15.59	64.03	4,562.05	4,555.84	4,542.03	13.81	329.978	
2,100.00	2,099.45	2,044.79	2,044.11	7.40	7.00	-15.64	62.68	4,561.97	4,547.29	4,532.90	14.39	315.986	
2,200.00	2,198.70	2,100.00	2,099.31	7.74	7.19	-15.71	61.71	4,562.15	4,535.97	4,521.05	14.92	303.995	
2,300.00	2,297.47	2,173.44	2,172.74	8.09	7.44	-15.81	60.42	4,562.94	4,522.03	4,506.51	15.52	291.450	
2,400.00	2,395.62	2,229.95	2,229.22	8.44	7.64	-15.93	59.37	4,564.15	4,505.74	4,489.69	16.05	280.712	
2,491.84	2,485.13	2,300.00	2,299.23	8.76	7.88	-16.06	58.15	4,566.39	4,488.74	4,472.14	16.61	270.277	
2,500.00	2,493.06	2,300.00	2,299.23	8.79	7.88	-16.06	58.15	4,566.39	4,487.11	4,470.48	16.64	269.708	
2,600.00	2,590.16	2,346.68	2,345.86	9.14	8.04	-16.09	57.26	4,568.30	4,467.91	4,450.77	17.14	260.715	
2,700.00	2,687.25	2,433.51	2,432.57	9.50	8.35	-16.14	55.14	4,572.45	4,449.50	4,431.72	17.78	250.189	
2,800.00	2,784.35	2,653.51	2,652.41	9.86	9.12	-16.27	50.96	4,579.32	4,429.33	4,410.42	18.90	234.303	
2,900.00	2,881.45	2,762.21	2,761.08	10.23	9.49	-16.35	49.63	4,581.14	4,407.93	4,388.29	19.63	224.506	
3,000.00	2,978.55	2,857.86	2,856.71	10.60	9.83	-16.43	48.71	4,582.70	4,386.50	4,366.18	20.32	215.858	
3,100.00	3,075.65	2,965.70	2,964.53	10.96	10.20	-16.51	47.68	4,584.43	4,365.07	4,344.01	21.05	207.338	
3,200.00	3,172.74	3,085.06	3,083.88	11.34	10.62	-16.61	46.71	4,585.83	4,343.21	4,321.39	21.83	198.999	
3,300.00	3,269.84	3,183.00	3,181.82	11.71	10.96	-16.69	46.11	4,586.68	4,321.08	4,298.55	22.53	191.815	
3,400.00	3,366.94	3,278.28	3,277.09	12.08	11.29	-16.77	45.46	4,587.56	4,299.01	4,275.78	23.22	185.123	
3,500.00	3,464.04	3,386.14	3,384.94	12.46	11.66	-16.86	44.34	4,588.49	4,276.88	4,252.91	23.96	178.492	
3,600.00	3,561.14	3,509.99	3,508.78	12.83	12.09	-16.95	42.86	4,589.01	4,254.31	4,229.56	24.75	171.867	
3,700.00	3,658.24	3,607.11	3,605.90	13.21	12.43	-17.03	41.89	4,589.12	4,231.46	4,206.00	25.46	166.205	
3,800.00	3,755.33	3,704.05	3,702.83	13.59	12.77	-17.12	40.99	4,589.21	4,208.61	4,182.44	26.17	160.843	
3,900.00	3,852.43	3,810.21	3,808.99	13.97	13.14	-17.21	39.94	4,589.19	4,185.64	4,158.74	26.90	155.581	
4,000.00	3,949.53	3,908.89	3,907.67	14.35	13.48	-17.29	38.95	4,589.05	4,162.58	4,134.96	27.62	150.721	
4,100.00	4,046.63	4,014.44	4,013.20	14.73	13.85	-17.39	37.98	4,588.77	4,139.39	4,111.04	28.35	145.986	
4,200.00	4,143.73	4,116.25	4,115.02	15.11	14.21	-17.48	37.07	4,588.34	4,116.08	4,086.99	29.08	141.540	
4,300.00	4,240.82	4,220.97	4,219.73	15.50	14.57	-17.57	36.14	4,587.74	4,092.62	4,062.80	29.82	137.261	
4,400.00	4,337.92	4,324.49	4,323.24	15.88	14.93	-17.67	35.21	4,586.94	4,068.97	4,038.42	30.55	133.195	
4,500.00	4,435.02	4,420.13	4,418.87	16.27	15.27	-17.75	34.14	4,586.18	4,045.30	4,014.05	31.26	129.415	
4,600.00	4,532.12	4,518.60	4,517.32	16.65	15.61	-17.84	32.78	4,585.39	4,021.64	3,989.66	31.98	125.767	
4,700.00	4,629.22	4,616.10	4,614.82	17.04	15.95	-17.92	31.30	4,584.59	3,997.94	3,965.25	32.69	122.286	
4,800.00	4,726.31	4,709.03	4,707.73	17.42	16.28	-18.00	29.81	4,583.87	3,974.31	3,940.91	33.40	119.001	
4,900.00	4,823.41	4,800.00	4,798.68	17.81	16.59	-18.08	28.09	4,583.34	3,950.84	3,916.74	34.10	115.874	
5,000.00	4,920.51	4,896.60	4,895.26	18.20	16.93	-18.15	25.90	4,582.87	3,927.46	3,892.65	34.81	112.819	

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 3H
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 3H	**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
5,100.00	5,017.61	4,991.98	4,990.61	18.58	17.26	-18.23	23.55	4,582.41	3,904.08	3,868.56	35.53	109.895	
5,200.00	5,114.71	5,088.00	5,086.59	18.97	17.60	-18.30	21.10	4,581.98	3,880.75	3,844.50	36.24	107.081	
5,300.00	5,211.80	5,178.47	5,177.03	19.36	17.92	-18.37	18.88	4,581.66	3,857.50	3,820.56	36.94	104.422	
5,400.00	5,308.90	5,274.77	5,273.31	19.75	18.25	-18.45	16.85	4,581.42	3,834.39	3,796.73	37.66	101.818	
5,500.00	5,406.00	5,372.08	5,370.60	20.14	18.59	-18.53	14.76	4,581.17	3,811.27	3,772.89	38.38	99.304	
5,600.00	5,503.10	5,478.86	5,477.35	20.53	18.97	-18.62	12.46	4,580.79	3,788.07	3,748.94	39.13	96.813	
5,700.00	5,600.20	5,571.74	5,570.21	20.91	19.29	-18.70	10.36	4,580.33	3,764.73	3,724.89	39.84	94.503	
5,800.00	5,697.30	5,669.38	5,667.82	21.30	19.63	-18.78	8.07	4,579.97	3,741.52	3,700.96	40.56	92.246	
5,900.00	5,794.39	5,766.35	5,764.77	21.69	19.97	-18.87	5.79	4,579.57	3,718.27	3,676.98	41.28	90.070	
6,000.00	5,891.49	5,851.44	5,849.84	22.09	20.27	-18.94	3.92	4,579.31	3,695.15	3,653.18	41.97	88.039	
6,100.00	5,988.59	5,938.39	5,936.77	22.48	20.57	-19.03	2.42	4,579.39	3,672.44	3,629.77	42.67	86.073	
6,200.00	6,085.69	6,036.05	6,034.42	22.87	20.92	-19.12	0.71	4,579.54	3,649.80	3,606.41	43.39	84.114	
6,300.00	6,182.79	6,132.76	6,131.11	23.26	21.25	-19.22	-0.85	4,579.68	3,627.18	3,583.07	44.11	82.223	
6,400.00	6,279.88	6,229.38	6,227.72	23.65	21.59	-19.32	-2.37	4,579.85	3,604.59	3,559.75	44.84	80.394	
6,500.00	6,376.98	6,326.23	6,324.56	24.04	21.93	-19.42	-3.89	4,580.01	3,582.01	3,536.45	45.56	78.622	
6,600.00	6,474.08	6,434.00	6,432.31	24.43	22.31	-19.53	-5.55	4,580.18	3,559.44	3,513.13	46.31	76.857	
6,700.00	6,571.18	6,580.23	6,578.54	24.82	22.82	-19.72	-6.28	4,578.86	3,535.92	3,488.77	47.16	74.978	
6,800.00	6,668.28	6,808.22	6,806.30	25.22	23.62	-20.08	-4.31	4,569.49	3,508.72	3,460.55	48.17	72.841	
6,900.00	6,765.37	6,858.00	6,856.01	25.61	23.79	-20.16	-3.45	4,567.13	3,481.69	3,432.89	48.80	71.353	
7,000.00	6,862.47	6,920.03	6,918.00	26.00	24.01	-20.27	-2.48	4,564.93	3,455.79	3,406.35	49.44	69.894	
7,100.00	6,959.57	8,771.48	8,272.96	26.39	29.90	-8.48	-703.81	4,261.00	3,423.78	3,373.17	50.61	67.644	
7,200.00	7,056.67	8,774.66	8,273.16	26.78	29.92	-8.41	-706.94	4,260.50	3,364.30	3,312.86	51.44	65.404	
7,300.00	7,153.77	8,777.89	8,273.38	27.18	29.94	-8.34	-710.13	4,260.01	3,306.76	3,254.49	52.27	63.266	
7,400.00	7,250.86	8,781.19	8,273.59	27.57	29.97	-8.27	-713.38	4,259.51	3,251.27	3,198.18	53.10	61.232	
7,500.00	7,347.96	8,792.00	8,274.32	27.96	30.04	-8.05	-724.05	4,257.90	3,197.97	3,143.99	53.98	59.248	
7,600.00	7,445.06	8,792.00	8,274.32	28.36	30.04	-8.05	-724.05	4,257.90	3,146.88	3,092.10	54.78	57.447	
7,700.00	7,542.16	8,792.00	8,274.32	28.75	30.04	-8.05	-724.05	4,257.90	3,098.19	3,042.61	55.57	55.750	
7,800.00	7,639.26	8,792.00	8,274.32	29.14	30.04	-8.05	-724.05	4,257.90	3,051.99	2,995.63	56.35	54.157	
7,900.00	7,736.36	8,792.00	8,274.32	29.54	30.04	-8.05	-724.05	4,257.90	3,008.41	2,951.29	57.12	52.669	
7,902.86	7,739.13	8,792.00	8,274.32	29.55	30.04	-8.05	-724.05	4,257.90	3,007.20	2,950.06	57.14	52.628	
7,950.00	7,784.76	8,792.00	8,274.32	29.73	30.04	-27.30	-724.05	4,257.90	2,987.57	2,930.08	57.49	51.964	
8,000.00	7,832.63	8,792.00	8,274.32	29.93	30.04	-43.09	-724.05	4,257.90	2,967.37	2,909.52	57.86	51.289	
8,050.00	7,879.58	8,792.00	8,274.32	30.12	30.04	-54.63	-724.05	4,257.90	2,947.99	2,889.78	58.21	50.648	
8,100.00	7,925.27	8,792.00	8,274.32	30.31	30.04	-63.17	-724.05	4,257.90	2,929.59	2,871.05	58.54	50.045	
8,150.00	7,969.35	8,808.74	8,275.30	30.49	30.16	-69.38	-740.61	4,255.70	2,912.05	2,853.08	58.97	49.380	
8,200.00	8,011.47	8,824.00	8,275.91	30.67	30.26	-74.24	-755.77	4,254.09	2,896.01	2,836.63	59.38	48.774	
8,250.00	8,051.32	8,824.00	8,275.91	30.83	30.26	-78.35	-755.77	4,254.09	2,881.13	2,821.48	59.65	48.301	
8,300.00	8,088.60	8,824.00	8,275.91	30.99	30.26	-81.70	-755.77	4,254.09	2,867.78	2,807.88	59.90	47.875	
8,350.00	8,123.02	8,844.91	8,276.42	31.14	30.41	-84.14	-776.60	4,252.24	2,855.93	2,795.65	60.29	47.372	
8,400.00	8,154.32	8,950.25	8,276.53	31.28	31.20	-85.09	-881.47	4,242.42	2,845.19	2,783.86	61.33	46.392	
8,450.00	8,182.27	9,092.20	8,275.93	31.42	32.39	-85.48	-1,022.32	4,225.09	2,834.59	2,771.82	62.77	45.156	
8,500.00	8,206.64	9,149.37	8,278.45	31.54	32.91	-86.77	-1,078.80	4,216.66	2,823.89	2,760.41	63.47	44.489	
8,550.00	8,227.26	9,194.86	8,280.80	31.66	33.34	-87.98	-1,123.72	4,209.87	2,814.15	2,750.09	64.06	43.933	
8,600.00	8,243.96	9,220.57	8,282.08	31.78	33.59	-89.11	-1,149.12	4,206.12	2,805.61	2,741.18	64.44	43.541	
8,621.67	8,249.95	9,231.47	8,282.58	31.83	33.69	-89.53	-1,159.90	4,204.60	2,802.36	2,737.77	64.59	43.386	
8,700.00	8,267.63	9,274.26	8,284.30	32.00	34.11	-89.92	-1,202.29	4,198.98	2,791.59	2,726.41	65.18	42.828	
8,800.00	8,282.55	9,341.46	8,286.37	32.23	34.78	-90.39	-1,268.98	4,190.92	2,779.03	2,712.98	66.05	42.072	
8,900.00	8,288.79	9,419.47	8,288.43	32.46	35.59	-90.91	-1,346.47	4,182.29	2,767.48	2,700.45	67.04	41.284	
8,921.67	8,289.00	9,437.04	8,288.87	32.51	35.77	-91.04	-1,363.94	4,180.42	2,765.09	2,697.84	67.25	41.115	
9,000.00	8,289.00	9,490.74	8,290.09	32.69	36.34	-91.07	-1,417.35	4,174.96	2,756.81	2,688.87	67.95	40.572	
9,100.00	8,289.00	9,688.58	8,295.28	32.94	38.55	-91.19	-1,613.83	4,152.67	2,745.37	2,675.01	70.36	39.020	
9,200.00	8,289.00	9,768.00	8,297.51	33.20	39.48	-91.24	-1,692.56	4,142.43	2,732.08	2,660.60	71.48	38.222	

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 3H
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 3H	**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
9,300.00	8,289.00	9,841.86	8,299.35	33.48	40.37	-91.28	-1,765.87	4,133.65	2,719.76	2,647.19	72.57	37.476	
9,400.00	8,289.00	9,933.73	8,300.87	33.77	41.49	-91.32	-1,857.14	4,123.17	2,707.95	2,634.03	73.92	36.632	
9,500.00	8,289.00	10,023.00	8,301.41	34.07	42.60	-91.34	-1,945.84	4,113.23	2,696.39	2,621.11	75.28	35.818	
9,600.00	8,289.00	10,110.08	8,301.10	34.38	43.70	-91.33	-2,032.44	4,104.01	2,685.35	2,608.70	76.65	35.033	
9,700.00	8,289.00	10,328.06	8,300.36	34.70	46.54	-91.33	-2,248.63	4,076.45	2,672.28	2,592.54	79.73	33.515	
9,800.00	8,289.00	10,429.29	8,300.36	35.04	47.90	-91.34	-2,348.69	4,061.17	2,656.74	2,575.36	81.38	32.648	
9,900.00	8,289.00	10,497.55	8,301.68	35.39	48.83	-91.37	-2,416.22	4,051.29	2,641.89	2,559.27	82.62	31.977	
10,000.00	8,289.00	10,551.10	8,303.71	35.75	49.56	-91.42	-2,469.27	4,044.19	2,628.38	2,544.69	83.69	31.407	
10,100.00	8,289.00	10,596.00	8,305.24	36.12	50.17	-91.46	-2,513.86	4,039.27	2,616.96	2,532.30	84.66	30.913	
10,200.00	8,289.00	10,631.71	8,305.95	36.51	50.66	-91.48	-2,549.43	4,036.16	2,607.76	2,522.26	85.51	30.497	
10,300.00	8,289.00	10,678.30	8,305.87	36.90	51.30	-91.48	-2,595.92	4,033.20	2,600.84	2,514.33	86.51	30.063	
10,400.00	8,289.00	10,751.36	8,304.37	37.31	52.30	-91.45	-2,668.88	4,029.67	2,595.47	2,507.57	87.90	29.526	
10,500.00	8,289.00	10,973.82	8,302.68	37.72	55.41	-91.42	-2,890.69	4,013.78	2,587.54	2,496.12	91.42	28.304	
10,600.00	8,289.00	11,052.84	8,302.79	38.15	56.53	-91.42	-2,969.40	4,006.84	2,578.30	2,485.34	92.96	27.736	
10,700.00	8,289.00	11,247.47	8,301.95	38.58	59.33	-91.42	-3,162.99	3,986.85	2,567.60	2,471.50	96.10	26.718	
10,800.00	8,289.00	11,333.91	8,301.91	39.03	60.59	-91.42	-3,248.80	3,976.50	2,555.20	2,457.41	97.80	26.128	
10,900.00	8,289.00	11,459.52	8,301.12	39.48	62.44	-91.41	-3,373.46	3,961.08	2,542.43	2,442.40	100.03	25.416	
11,000.00	8,289.00	11,652.27	8,300.65	39.94	65.30	-91.42	-3,564.13	3,933.00	2,527.36	2,424.23	103.13	24.506	
11,100.00	8,289.00	11,719.14	8,302.28	40.41	66.30	-91.46	-3,630.11	3,922.25	2,511.01	2,406.36	104.64	23.996	
11,200.00	8,289.00	11,742.00	8,303.31	40.89	66.64	-91.49	-3,652.69	3,918.87	2,496.73	2,391.14	105.59	23.646	
11,300.00	8,289.00	11,806.00	8,306.33	41.38	67.60	-91.56	-3,716.16	3,911.30	2,484.70	2,377.65	107.05	23.210	
11,400.00	8,289.00	11,841.47	8,307.56	41.88	68.13	-91.59	-3,751.48	3,908.22	2,475.16	2,367.04	108.13	22.891	
11,500.00	8,289.00	11,913.13	8,308.42	42.38	69.20	-91.62	-3,822.93	3,902.94	2,467.33	2,357.63	109.70	22.491	
11,600.00	8,289.00	11,996.00	8,308.09	42.89	70.44	-91.61	-3,905.63	3,897.56	2,460.37	2,348.92	111.46	22.075	
11,700.00	8,289.00	12,085.16	8,307.12	43.41	71.77	-91.59	-3,994.64	3,892.60	2,454.29	2,340.97	113.32	21.658	
11,800.00	8,289.00	12,280.66	8,300.14	43.93	74.72	-91.44	-4,189.44	3,877.85	2,446.34	2,329.60	116.74	20.955	
11,900.00	8,289.00	12,413.56	8,299.82	44.46	76.75	-91.44	-4,321.51	3,863.36	2,434.83	2,315.60	119.23	20.421	
12,000.00	8,289.00	12,504.58	8,302.28	45.00	78.14	-91.51	-4,411.95	3,853.48	2,423.59	2,302.44	121.16	20.004	
12,100.00	8,289.00	12,615.52	8,303.33	45.55	79.85	-91.54	-4,522.22	3,841.30	2,412.21	2,288.84	123.36	19.554	
12,200.00	8,289.00	12,694.88	8,303.84	46.10	81.07	-91.56	-4,601.10	3,832.60	2,400.85	2,275.69	125.16	19.182	
12,300.00	8,289.00	12,758.00	8,304.77	46.65	82.04	-91.58	-4,663.87	3,826.00	2,390.28	2,263.54	126.74	18.859	
12,400.00	8,289.00	12,821.00	8,305.54	47.21	83.01	-91.61	-4,726.61	3,820.40	2,381.25	2,252.94	128.31	18.558	
12,500.00	8,289.00	12,916.32	8,305.60	47.78	84.48	-91.61	-4,821.68	3,813.53	2,373.60	2,243.25	130.35	18.209	
12,600.00	8,289.00	13,011.00	8,305.00	48.35	85.94	-91.60	-4,916.12	3,806.87	2,366.11	2,233.72	132.39	17.872	
12,688.51	8,289.00	13,091.56	8,306.20	48.86	87.19	-91.64	-4,996.50	3,801.54	2,359.89	2,225.74	134.15	17.592	
12,700.00	8,289.00	13,108.87	8,306.40	48.93	87.46	-91.64	-5,013.76	3,800.37	2,358.95	2,224.47	134.48	17.542	
12,750.00	8,289.00	13,161.53	8,306.55	49.23	88.27	-91.67	-5,066.28	3,796.61	2,352.18	2,216.60	135.58	17.349	
12,800.00	8,289.00	13,202.00	8,306.29	49.53	88.90	-91.70	-5,106.66	3,793.88	2,341.55	2,205.04	136.51	17.153	
12,850.00	8,289.00	13,240.08	8,305.76	49.84	89.49	-91.74	-5,144.66	3,791.47	2,327.13	2,189.73	137.40	16.937	
12,900.00	8,289.00	13,284.62	8,304.93	50.15	90.18	-91.79	-5,189.11	3,788.75	2,308.93	2,170.55	138.39	16.685	
12,950.00	8,289.00	13,305.00	8,304.53	50.47	90.49	-91.86	-5,209.45	3,787.50	2,287.11	2,148.11	139.00	16.454	
13,000.00	8,289.00	13,305.00	8,304.53	50.79	90.49	-91.94	-5,209.45	3,787.50	2,262.42	2,123.15	139.27	16.244	
13,050.00	8,289.00	13,305.00	8,304.53	51.10	90.49	-92.05	-5,209.45	3,787.50	2,235.03	2,095.53	139.50	16.021	
13,100.00	8,289.00	13,305.00	8,304.53	51.40	90.49	-92.18	-5,209.45	3,787.50	2,205.03	2,065.34	139.69	15.785	
13,150.00	8,289.00	13,305.00	8,304.53	51.70	90.49	-92.34	-5,209.45	3,787.50	2,172.52	2,032.67	139.85	15.535	
13,200.00	8,289.00	13,305.00	8,304.53	51.99	90.49	-92.54	-5,209.45	3,787.50	2,137.60	1,997.64	139.96	15.273	
13,250.00	8,289.00	13,305.00	8,304.53	52.26	90.49	-92.78	-5,209.45	3,787.50	2,100.40	1,960.35	140.04	14.998	
13,300.00	8,289.00	13,305.00	8,304.53	52.52	90.49	-93.09	-5,209.45	3,787.50	2,061.05	1,920.95	140.10	14.712	
13,350.00	8,289.00	13,305.00	8,304.53	52.77	90.49	-93.49	-5,209.45	3,787.50	2,019.71	1,879.58	140.12	14.414	
13,400.00	8,289.00	13,305.00	8,304.53	53.00	90.49	-94.02	-5,209.45	3,787.50	1,976.53	1,836.40	140.13	14.105	
13,450.00	8,289.00	13,305.00	8,304.53	53.20	90.49	-94.74	-5,209.45	3,787.50	1,931.69	1,791.57	140.12	13.786	
13,500.00	8,289.00	13,305.00	8,304.53	53.39	90.49	-95.81	-5,209.45	3,787.50	1,885.39	1,745.30	140.09	13.458	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

Offset Design: Riverbend 12-13 Offsets - Malaga 13 DM Fed Com 1H - OH - Svy — **Offset Site Error:** 0.50 usft

Survey Program: 100-GYRO-NS, 7745-OWSG (Rev2) MWD — **Rule Assigned:** — **Offset Well Error:** 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,550.00	8,289.00	13,305.00	8,304.53	53.55	90.49	-97.48	-5,209.45	3,787.50	1,837.85	1,697.79	140.06	13.122	
13,600.00	8,289.00	13,305.00	8,304.53	53.69	90.49	-100.49	-5,209.45	3,787.50	1,789.30	1,649.27	140.03	12.778	
13,650.00	8,289.00	13,305.00	8,304.53	53.80	90.49	-107.26	-5,209.45	3,787.50	1,739.99	1,599.99	140.00	12.429	
13,700.00	8,289.00	13,305.00	8,304.53	53.89	90.49	-132.86	-5,209.45	3,787.50	1,690.20	1,550.23	139.97	12.075	
13,750.00	8,289.00	13,305.00	8,304.53	53.96	90.49	134.74	-5,209.45	3,787.50	1,640.26	1,500.30	139.96	11.719	
13,800.00	8,289.00	13,305.00	8,304.53	54.00	90.49	108.29	-5,209.45	3,787.50	1,590.48	1,450.52	139.96	11.364	
13,850.00	8,289.00	13,305.00	8,304.53	54.02	90.49	101.40	-5,209.45	3,787.50	1,541.25	1,401.28	139.97	11.011	
13,900.00	8,289.00	13,305.00	8,304.53	54.01	90.49	98.37	-5,209.45	3,787.50	1,492.96	1,352.97	140.00	10.664	
13,950.00	8,289.00	13,305.00	8,304.53	53.99	90.49	96.69	-5,209.45	3,787.50	1,446.06	1,306.03	140.03	10.327	
14,000.00	8,289.00	13,305.00	8,304.53	53.94	90.49	95.63	-5,209.45	3,787.50	1,401.01	1,260.95	140.06	10.003	
14,050.00	8,289.00	13,305.00	8,304.53	53.88	90.49	94.92	-5,209.45	3,787.50	1,358.31	1,218.25	140.07	9.698	
14,100.00	8,289.00	13,305.00	8,304.53	53.80	90.49	94.42	-5,209.45	3,787.50	1,318.50	1,178.46	140.04	9.415	
14,150.00	8,289.00	13,305.00	8,304.53	53.70	90.49	94.05	-5,209.45	3,787.50	1,282.13	1,142.18	139.95	9.161	
14,200.00	8,289.00	13,305.00	8,304.53	53.59	90.49	93.77	-5,209.45	3,787.50	1,249.75	1,109.98	139.77	8.941	
14,250.00	8,289.00	13,305.00	8,304.53	53.47	90.49	93.57	-5,209.45	3,787.50	1,221.91	1,082.43	139.48	8.760	
14,300.00	8,289.00	13,292.04	8,304.78	53.33	90.29	93.45	-5,196.52	3,788.30	1,199.04	1,060.12	138.93	8.631	
14,350.00	8,289.00	13,246.26	8,305.66	53.20	89.58	93.44	-5,150.83	3,791.09	1,180.33	1,042.31	138.02	8.552	
14,400.00	8,289.00	13,202.00	8,306.29	53.05	88.90	93.42	-5,106.66	3,793.88	1,165.56	1,028.43	137.12	8.500	
14,450.00	8,289.00	13,159.01	8,306.56	52.91	88.23	93.40	-5,063.77	3,796.79	1,154.95	1,018.70	136.24	8.477	SF
14,500.00	8,289.00	13,106.79	8,306.38	52.76	87.42	93.38	-5,011.68	3,800.51	1,148.54	1,013.24	135.30	8.489	
14,530.51	8,289.00	13,071.13	8,305.88	52.67	86.87	93.35	-4,976.11	3,802.88	1,146.47	1,011.77	134.70	8.512	
14,600.00	8,289.00	13,006.20	8,304.94	52.46	85.87	93.30	-4,911.33	3,807.20	1,144.66	1,011.19	133.47	8.576	ES
14,612.47	8,289.00	12,994.81	8,304.86	52.43	85.69	93.30	-4,899.96	3,807.98	1,144.62	1,011.37	133.25	8.590	CC
14,700.00	8,289.00	12,911.19	8,305.65	52.18	84.40	93.34	-4,816.56	3,813.90	1,146.72	1,015.04	131.68	8.708	
14,762.01	8,289.00	12,849.44	8,305.79	52.01	83.45	93.34	-4,754.97	3,818.33	1,150.51	1,019.94	130.57	8.812	
14,800.00	8,289.00	12,821.00	8,305.54	51.90	83.01	93.32	-4,726.61	3,820.40	1,153.45	1,023.49	129.96	8.875	
14,900.00	8,289.00	12,748.70	8,304.65	51.64	81.90	93.26	-4,654.62	3,826.98	1,162.95	1,034.56	128.39	9.058	
15,000.00	8,289.00	12,655.94	8,303.38	51.38	80.47	93.16	-4,562.39	3,836.77	1,173.86	1,047.17	126.69	9.266	
15,100.00	8,289.00	12,555.87	8,302.99	51.14	78.93	93.11	-4,462.94	3,847.90	1,185.39	1,060.44	124.95	9.487	
15,200.00	8,289.00	12,453.61	8,301.07	50.90	77.36	92.99	-4,361.30	3,858.98	1,196.55	1,073.31	123.24	9.709	
15,300.00	8,289.00	12,362.49	8,298.57	50.66	75.97	92.85	-4,270.79	3,869.20	1,208.04	1,086.43	121.62	9.933	
15,400.00	8,289.00	12,229.95	8,302.37	50.44	73.95	92.99	-4,138.99	3,882.41	1,218.63	1,098.99	119.64	10.186	
15,500.00	8,289.00	12,101.57	8,306.78	50.23	72.02	93.18	-4,011.02	3,891.62	1,226.39	1,108.74	117.65	10.424	
15,600.00	8,289.00	11,996.00	8,308.09	50.02	70.44	93.22	-3,905.63	3,897.56	1,232.49	1,116.58	115.91	10.633	
15,700.00	8,289.00	11,910.52	8,308.41	49.82	69.16	93.22	-3,820.33	3,903.12	1,239.43	1,125.03	114.39	10.835	
15,800.00	8,289.00	11,828.41	8,307.18	49.64	67.93	93.15	-3,738.47	3,909.31	1,247.35	1,134.41	112.94	11.044	
15,900.00	8,289.00	11,771.68	8,304.77	49.46	67.09	93.02	-3,682.08	3,914.95	1,257.65	1,145.96	111.69	11.260	
16,000.00	8,289.00	11,715.25	8,302.13	49.29	66.24	92.88	-3,626.27	3,922.85	1,271.71	1,161.30	110.41	11.518	
16,100.00	8,289.00	11,630.92	8,300.53	49.13	64.98	92.78	-3,543.07	3,936.48	1,288.15	1,179.20	108.95	11.824	
16,200.00	8,289.00	11,480.98	8,301.04	48.98	62.76	92.75	-3,394.75	3,958.40	1,303.37	1,196.27	107.10	12.169	
16,300.00	8,289.00	11,373.71	8,301.46	48.84	61.18	92.74	-3,288.34	3,971.93	1,316.48	1,210.96	105.52	12.476	
16,400.00	8,289.00	11,278.86	8,302.04	48.71	59.79	92.74	-3,194.14	3,983.05	1,328.66	1,224.62	104.04	12.770	
16,500.00	8,289.00	11,161.02	8,301.94	48.59	58.08	92.71	-3,077.12	3,996.87	1,340.87	1,238.44	102.42	13.091	
16,600.00	8,289.00	11,032.42	8,302.86	48.48	56.24	92.72	-2,949.06	4,008.56	1,350.28	1,249.58	100.71	13.408	
16,700.00	8,289.00	10,944.51	8,302.41	48.38	54.99	92.69	-2,861.51	4,016.52	1,359.74	1,260.36	99.38	13.683	
16,800.00	8,289.00	10,778.44	8,303.62	48.29	52.67	92.71	-2,695.93	4,028.47	1,367.58	1,270.26	97.32	14.053	
16,900.00	8,289.00	10,689.86	8,305.73	48.21	51.46	92.79	-2,607.47	4,032.57	1,372.78	1,276.76	96.02	14.296	
17,000.00	8,289.00	10,625.58	8,305.88	48.15	50.58	92.79	-2,543.32	4,036.64	1,379.66	1,284.65	95.01	14.522	
17,100.00	8,289.00	10,569.35	8,304.38	48.09	49.81	92.71	-2,487.37	4,042.06	1,389.58	1,295.51	94.07	14.772	
17,200.00	8,289.00	10,505.78	8,301.95	48.05	48.94	92.60	-2,424.37	4,050.15	1,402.48	1,309.40	93.08	15.067	
17,300.00	8,289.00	10,426.87	8,300.34	48.01	47.87	92.51	-2,346.30	4,061.53	1,417.22	1,325.25	91.97	15.409	
17,400.00	8,289.00	10,326.12	8,300.35	47.99	46.52	92.48	-2,246.71	4,076.74	1,432.74	1,342.03	90.72	15.793	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.50 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,500.00	8,289.00	10,175.18	8,300.51	47.99	44.53	92.45	-2,097.16	4,097.12	1,446.90	1,357.78	89.12	16.236	
17,600.00	8,289.00	10,065.68	8,301.34	47.99	43.13	92.47	-1,988.28	4,108.67	1,457.88	1,370.02	87.85	16.594	
17,700.00	8,289.00	9,974.93	8,301.25	48.01	42.00	92.45	-1,898.07	4,118.52	1,469.15	1,382.36	86.79	16.928	
17,800.00	8,289.00	9,878.21	8,300.06	48.04	40.81	92.38	-1,801.98	4,129.46	1,480.85	1,395.12	85.73	17.274	
17,900.00	8,289.00	9,787.60	8,298.04	48.08	39.72	92.28	-1,712.01	4,140.06	1,492.88	1,408.12	84.76	17.614	
18,000.00	8,289.00	9,709.72	8,295.88	48.14	38.80	92.19	-1,634.77	4,149.85	1,505.81	1,421.90	83.92	17.944	
18,100.00	8,289.00	9,566.26	8,291.59	48.21	37.16	92.00	-1,492.49	4,167.60	1,518.68	1,435.99	82.69	18.366	
18,200.00	8,289.00	9,462.53	8,289.49	48.29	36.04	91.90	-1,389.29	4,177.77	1,528.82	1,447.05	81.78	18.695	
18,300.00	8,289.00	9,376.29	8,287.31	48.39	35.14	91.81	-1,303.57	4,186.99	1,539.87	1,458.84	81.03	19.004	
18,400.00	8,289.00	9,294.44	8,284.99	48.50	34.31	91.71	-1,222.30	4,196.47	1,551.81	1,471.46	80.36	19.311	
18,500.00	8,289.00	9,223.80	8,282.23	48.63	33.62	91.60	-1,152.31	4,205.67	1,565.19	1,485.40	79.79	19.616	
18,600.00	8,289.00	9,140.06	8,277.98	48.76	32.82	91.43	-1,069.61	4,218.05	1,580.26	1,501.05	79.21	19.950	
18,700.00	8,289.00	8,969.52	8,276.20	48.92	31.35	91.35	-900.62	4,240.38	1,594.05	1,515.78	78.27	20.365	
18,800.00	8,289.00	8,840.01	8,276.33	49.08	30.38	91.34	-771.71	4,252.66	1,603.97	1,526.34	77.63	20.662	
18,900.00	8,289.00	8,803.90	8,275.05	49.26	30.12	91.29	-735.81	4,256.29	1,614.73	1,537.31	77.42	20.857	
19,000.00	8,289.00	8,760.00	8,272.23	49.46	29.82	91.18	-692.50	4,262.82	1,629.61	1,552.41	77.20	21.109	
19,100.00	8,289.00	8,729.00	8,270.28	50.02	29.61	91.11	-662.07	4,268.43	1,647.96	1,570.43	77.54	21.253	
19,101.33	8,289.00	8,729.00	8,270.28	50.05	29.61	91.11	-662.07	4,268.43	1,648.24	1,570.69	77.55	21.254	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	87.34	55.78	1,202.03	9,862.58				
100.00	100.00	19,907.00	9,811.90	0.28	171.86	87.34	55.78	1,202.03	9,763.33	9,668.50	94.83	102.957	
200.00	200.00	19,907.00	9,811.90	0.63	171.86	87.34	55.78	1,202.03	9,664.10	9,569.19	94.91	101.824	
300.00	300.00	19,907.00	9,811.90	0.99	171.86	87.34	55.78	1,202.03	9,564.89	9,469.89	95.00	100.685	
400.00	400.00	19,907.00	9,811.90	1.35	171.86	87.34	55.78	1,202.03	9,465.69	9,370.60	95.09	99.540	
500.00	500.00	19,907.00	9,811.90	1.71	171.86	87.34	55.78	1,202.03	9,366.51	9,271.31	95.20	98.388	
600.00	600.00	19,907.00	9,811.90	2.07	171.86	87.34	55.78	1,202.03	9,267.35	9,172.04	95.31	97.232	
700.00	700.00	19,907.00	9,811.90	2.43	171.86	87.34	55.78	1,202.03	9,168.21	9,072.77	95.43	96.070	
800.00	800.00	19,907.00	9,811.90	2.79	171.86	87.34	55.78	1,202.03	9,069.08	8,973.52	95.56	94.904	
900.00	900.00	19,907.00	9,811.90	3.14	171.86	87.34	55.78	1,202.03	8,969.98	8,874.28	95.70	93.733	
1,000.00	1,000.00	19,907.00	9,811.90	3.50	171.86	87.34	55.78	1,202.03	8,870.89	8,775.05	95.84	92.558	
1,100.00	1,100.00	19,907.00	9,811.90	3.86	171.86	87.34	55.78	1,202.03	8,771.82	8,675.83	95.99	91.380	
1,200.00	1,200.00	19,907.00	9,811.90	4.22	171.86	87.34	55.78	1,202.03	8,672.78	8,576.63	96.15	90.198	
1,300.00	1,300.00	19,907.00	9,811.90	4.58	171.86	87.34	55.78	1,202.03	8,573.76	8,477.44	96.32	89.014	
1,400.00	1,400.00	19,907.00	9,811.90	4.94	171.86	87.34	55.78	1,202.03	8,474.76	8,378.27	96.49	87.828	
1,500.00	1,500.00	19,907.00	9,811.90	5.29	171.86	87.34	55.78	1,202.03	8,375.79	8,279.11	96.67	86.639	
1,600.00	1,600.00	19,907.00	9,811.90	5.65	171.86	87.34	55.78	1,202.03	8,276.84	8,179.97	96.86	85.449	
1,700.00	1,700.00	19,907.00	9,811.90	6.01	171.86	87.34	55.78	1,202.03	8,177.91	8,080.85	97.06	84.257	
1,800.00	1,800.00	19,907.00	9,811.90	6.37	171.86	87.34	55.78	1,202.03	8,079.01	7,981.75	97.26	83.064	
1,900.00	1,899.98	19,907.00	9,811.90	6.72	171.86	-22.43	55.78	1,202.03	7,979.91	7,882.45	97.46	81.878	
2,000.00	1,999.84	19,907.00	9,811.90	7.06	171.86	-31.12	55.78	1,202.03	7,880.45	7,782.81	97.64	80.713	
2,100.00	2,099.45	19,907.00	9,811.90	7.40	171.86	-48.08	55.78	1,202.03	7,780.73	7,682.95	97.78	79.572	
2,200.00	2,198.70	19,907.00	9,811.90	7.74	171.86	-81.57	55.78	1,202.03	7,680.87	7,582.97	97.90	78.457	
2,300.00	2,297.47	19,907.00	9,811.90	8.09	171.86	-120.63	55.78	1,202.03	7,580.99	7,483.01	97.98	77.369	
2,400.00	2,395.62	19,907.00	9,811.90	8.44	171.86	-142.89	55.78	1,202.03	7,481.22	7,383.18	98.04	76.310	
2,491.84	2,485.13	19,907.00	9,811.90	8.76	171.86	-153.23	55.78	1,202.03	7,389.78	7,291.73	98.06	75.362	
2,500.00	2,493.06	19,907.00	9,811.90	8.79	171.86	-153.23	55.78	1,202.03	7,381.67	7,283.61	98.06	75.280	
2,600.00	2,590.16	19,907.00	9,811.90	9.14	171.86	-153.23	55.78	1,202.03	7,282.26	7,184.20	98.07	74.258	
2,700.00	2,687.25	19,907.00	9,811.90	9.50	171.86	-153.23	55.78	1,202.03	7,182.87	7,084.80	98.08	73.236	
2,800.00	2,784.35	19,907.00	9,811.90	9.86	171.86	-153.23	55.78	1,202.03	7,083.50	6,985.41	98.09	72.212	
2,900.00	2,881.45	19,907.00	9,811.90	10.23	171.86	-153.23	55.78	1,202.03	6,984.15	6,886.04	98.11	71.188	
3,000.00	2,978.55	19,907.00	9,811.90	10.60	171.86	-153.23	55.78	1,202.03	6,884.81	6,786.69	98.13	70.164	
3,100.00	3,075.65	19,907.00	9,811.90	10.96	171.86	-153.23	55.78	1,202.03	6,785.50	6,687.35	98.14	69.139	
3,200.00	3,172.74	19,907.00	9,811.90	11.34	171.86	-153.23	55.78	1,202.03	6,686.20	6,588.04	98.16	68.114	
3,300.00	3,269.84	19,907.00	9,811.90	11.71	171.86	-153.23	55.78	1,202.03	6,586.93	6,488.74	98.18	67.089	
3,400.00	3,366.94	19,907.00	9,811.90	12.08	171.86	-153.23	55.78	1,202.03	6,487.67	6,389.47	98.20	66.064	
3,500.00	3,464.04	19,907.00	9,811.90	12.46	171.86	-153.23	55.78	1,202.03	6,388.44	6,290.22	98.22	65.039	
3,600.00	3,561.14	19,907.00	9,811.90	12.83	171.86	-153.23	55.78	1,202.03	6,289.24	6,190.99	98.25	64.015	
3,700.00	3,658.24	19,907.00	9,811.90	13.21	171.86	-153.23	55.78	1,202.03	6,190.06	6,091.79	98.27	62.991	
3,800.00	3,755.33	19,907.00	9,811.90	13.59	171.86	-153.23	55.78	1,202.03	6,090.91	5,992.62	98.29	61.967	
3,900.00	3,852.43	19,907.00	9,811.90	13.97	171.86	-153.23	55.78	1,202.03	5,991.79	5,893.47	98.32	60.944	
4,000.00	3,949.53	19,907.00	9,811.90	14.35	171.86	-153.23	55.78	1,202.03	5,892.69	5,794.35	98.34	59.922	
4,100.00	4,046.63	19,907.00	9,811.90	14.73	171.86	-153.23	55.78	1,202.03	5,793.63	5,695.26	98.36	58.901	
4,200.00	4,143.73	19,907.00	9,811.90	15.11	171.86	-153.23	55.78	1,202.03	5,694.60	5,596.21	98.39	57.880	
4,300.00	4,240.82	19,907.00	9,811.90	15.50	171.86	-153.23	55.78	1,202.03	5,595.60	5,497.19	98.41	56.861	
4,400.00	4,337.92	19,907.00	9,811.90	15.88	171.86	-153.23	55.78	1,202.03	5,496.64	5,398.21	98.43	55.842	
4,500.00	4,435.02	19,907.00	9,811.90	16.27	171.86	-153.23	55.78	1,202.03	5,397.72	5,299.27	98.45	54.825	
4,600.00	4,532.12	19,907.00	9,811.90	16.65	171.86	-153.23	55.78	1,202.03	5,298.84	5,200.37	98.47	53.809	
4,700.00	4,629.22	19,907.00	9,811.90	17.04	171.86	-153.23	55.78	1,202.03	5,200.00	5,101.51	98.50	52.794	
4,800.00	4,726.31	19,907.00	9,811.90	17.42	171.86	-153.23	55.78	1,202.03	5,101.21	5,002.69	98.51	51.781	
4,900.00	4,823.41	19,907.00	9,811.90	17.81	171.86	-153.23	55.78	1,202.03	5,002.47	4,903.93	98.53	50.769	
5,000.00	4,920.51	19,907.00	9,811.90	18.20	171.86	-153.23	55.78	1,202.03	4,903.77	4,805.22	98.55	49.759	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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
5,100.00	5,017.61	19,907.00	9,811.90	18.58	171.86	-153.23	55.78	1,202.03	4,805.13	4,706.57	98.57	48.750	
5,200.00	5,114.71	19,907.00	9,811.90	18.97	171.86	-153.23	55.78	1,202.03	4,706.55	4,607.97	98.58	47.744	
5,300.00	5,211.80	19,907.00	9,811.90	19.36	171.86	-153.23	55.78	1,202.03	4,608.03	4,509.44	98.59	46.738	
5,400.00	5,308.90	19,907.00	9,811.90	19.75	171.86	-153.23	55.78	1,202.03	4,509.57	4,410.97	98.60	45.735	
5,500.00	5,406.00	19,907.00	9,811.90	20.14	171.86	-153.23	55.78	1,202.03	4,411.19	4,312.57	98.61	44.733	
5,600.00	5,503.10	19,907.00	9,811.90	20.53	171.86	-153.23	55.78	1,202.03	4,312.87	4,214.26	98.62	43.734	
5,700.00	5,600.20	19,907.00	9,811.90	20.91	171.86	-153.23	55.78	1,202.03	4,214.64	4,116.02	98.62	42.736	
5,800.00	5,697.30	19,907.00	9,811.90	21.30	171.86	-153.23	55.78	1,202.03	4,116.49	4,017.87	98.62	41.740	
5,900.00	5,794.39	19,907.00	9,811.90	21.69	171.86	-153.23	55.78	1,202.03	4,018.44	3,919.82	98.62	40.747	
6,000.00	5,891.49	19,907.00	9,811.90	22.09	171.86	-153.23	55.78	1,202.03	3,920.48	3,821.86	98.62	39.755	
6,100.00	5,988.59	19,907.00	9,811.90	22.48	171.86	-153.23	55.78	1,202.03	3,822.62	3,724.02	98.61	38.765	
6,200.00	6,085.69	19,907.00	9,811.90	22.87	171.86	-153.23	55.78	1,202.03	3,724.89	3,626.29	98.60	37.778	
6,300.00	6,182.79	19,907.00	9,811.90	23.26	171.86	-153.23	55.78	1,202.03	3,627.27	3,528.68	98.59	36.793	
6,400.00	6,279.88	19,907.00	9,811.90	23.65	171.86	-153.23	55.78	1,202.03	3,529.79	3,431.22	98.57	35.810	
6,500.00	6,376.98	19,907.00	9,811.90	24.04	171.86	-153.23	55.78	1,202.03	3,432.45	3,333.90	98.55	34.829	
6,600.00	6,474.08	19,907.00	9,811.90	24.43	171.86	-153.23	55.78	1,202.03	3,335.27	3,236.74	98.53	33.850	
6,700.00	6,571.18	19,907.00	9,811.90	24.82	171.86	-153.23	55.78	1,202.03	3,238.26	3,139.76	98.51	32.873	
6,800.00	6,668.28	19,907.00	9,811.90	25.22	171.86	-153.23	55.78	1,202.03	3,141.44	3,042.96	98.48	31.898	
6,900.00	6,765.37	19,907.00	9,811.90	25.61	171.86	-153.23	55.78	1,202.03	3,044.83	2,946.37	98.46	30.925	
7,000.00	6,862.47	19,907.00	9,811.90	26.00	171.86	-153.23	55.78	1,202.03	2,948.44	2,850.01	98.43	29.953	
7,100.00	6,959.57	19,907.00	9,811.90	26.39	171.86	-153.23	55.78	1,202.03	2,852.30	2,753.89	98.41	28.984	
7,200.00	7,056.67	19,907.00	9,811.90	26.78	171.86	-153.23	55.78	1,202.03	2,756.44	2,658.05	98.39	28.016	
7,300.00	7,153.77	19,907.00	9,811.90	27.18	171.86	-153.23	55.78	1,202.03	2,660.88	2,562.50	98.37	27.049	
7,400.00	7,250.86	19,907.00	9,811.90	27.57	171.86	-153.23	55.78	1,202.03	2,565.65	2,467.29	98.36	26.083	
7,500.00	7,347.96	19,907.00	9,811.90	27.96	171.86	-153.23	55.78	1,202.03	2,470.81	2,372.44	98.37	25.118	
7,600.00	7,445.06	19,907.00	9,811.90	28.36	171.86	-153.23	55.78	1,202.03	2,376.39	2,278.00	98.39	24.153	
7,700.00	7,542.16	19,907.00	9,811.90	28.75	171.86	-153.23	55.78	1,202.03	2,282.44	2,184.01	98.43	23.188	
7,800.00	7,639.26	19,907.00	9,811.90	29.14	171.86	-153.23	55.78	1,202.03	2,189.03	2,090.52	98.51	22.222	
7,900.00	7,736.36	19,907.00	9,811.90	29.54	171.86	-153.23	55.78	1,202.03	2,096.23	1,997.60	98.62	21.255	
7,902.86	7,739.13	19,907.00	9,811.90	29.55	171.86	-153.23	55.78	1,202.03	2,093.58	1,994.96	98.63	21.228	
7,950.00	7,784.76	19,907.00	9,811.90	29.73	171.86	-162.48	55.78	1,202.03	2,050.59	1,951.90	98.69	20.778	
8,000.00	7,832.63	19,907.00	9,811.90	29.93	171.86	-169.91	55.78	1,202.03	2,006.56	1,907.81	98.75	20.320	
8,050.00	7,879.58	19,907.00	9,811.90	30.12	171.86	-174.80	55.78	1,202.03	1,964.59	1,865.79	98.80	19.885	
8,100.00	7,925.27	19,907.00	9,811.90	30.31	171.86	-177.95	55.78	1,202.03	1,925.14	1,826.30	98.84	19.478	
8,150.00	7,969.35	19,907.00	9,811.90	30.49	171.86	179.96	55.78	1,202.03	1,888.69	1,789.82	98.87	19.104	
8,200.00	8,011.47	19,907.00	9,811.90	30.67	171.86	178.51	55.78	1,202.03	1,855.69	1,756.81	98.88	18.768	
8,250.00	8,051.32	19,907.00	9,811.90	30.83	171.86	177.45	55.78	1,202.03	1,826.58	1,727.72	98.86	18.476	
8,300.00	8,088.60	19,907.00	9,811.90	30.99	171.86	176.61	55.78	1,202.03	1,801.80	1,702.98	98.82	18.233	
8,350.00	8,123.02	19,907.00	9,811.90	31.14	171.86	175.92	55.78	1,202.03	1,781.69	1,682.96	98.73	18.045	
8,400.00	8,154.32	19,907.00	9,811.90	31.28	171.86	175.30	55.78	1,202.03	1,766.59	1,667.99	98.60	17.916	
8,450.00	8,182.27	19,907.00	9,811.90	31.42	171.86	174.71	55.78	1,202.03	1,756.74	1,658.32	98.41	17.851	
8,500.00	8,206.64	19,907.00	9,811.90	31.54	171.86	174.12	55.78	1,202.03	1,752.29	1,654.13	98.16	17.851	
8,515.55	8,213.46	19,907.00	9,811.90	31.58	171.86	173.93	55.78	1,202.03	1,752.03	1,653.96	98.07	17.865	CC, ES
8,550.00	8,227.26	19,907.00	9,811.90	31.66	171.86	173.50	55.78	1,202.03	1,753.33	1,655.49	97.84	17.919	
8,600.00	8,243.96	19,907.00	9,811.90	31.78	171.86	172.82	55.78	1,202.03	1,759.84	1,662.38	97.46	18.057	
8,621.67	8,249.95	19,907.00	9,811.90	31.83	171.86	172.50	55.78	1,202.03	1,764.33	1,667.05	97.28	18.137	
8,700.00	8,267.63	19,907.00	9,811.90	32.00	171.86	172.35	55.78	1,202.03	1,786.55	1,690.01	96.54	18.506	
8,800.00	8,282.55	19,907.00	9,811.90	32.23	171.86	172.05	55.78	1,202.03	1,826.51	1,731.01	95.50	19.125	
8,900.00	8,288.79	19,907.00	9,811.90	32.46	171.86	171.62	55.78	1,202.03	1,878.44	1,784.03	94.41	19.896	
8,921.67	8,289.00	19,907.00	9,811.90	32.51	171.86	171.50	55.78	1,202.03	1,891.14	1,796.96	94.18	20.081	
9,000.00	8,289.00	19,907.00	9,811.90	32.69	171.86	171.50	55.78	1,202.03	1,938.96	1,845.65	93.30	20.781	
9,100.00	8,289.00	19,907.00	9,811.90	32.94	171.86	171.50	55.78	1,202.03	2,002.80	1,910.61	92.19	21.726	

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 3H
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 3H	**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
9,200.00	8,289.00	19,907.00	9,811.90	33.20	171.86	171.50	55.78	1,202.03	2,069.50	1,978.42	91.08	22.722	
9,300.00	8,289.00	19,907.00	9,811.90	33.48	171.86	171.50	55.78	1,202.03	2,138.80	2,048.81	89.99	23.767	
9,400.00	8,289.00	19,907.00	9,811.90	33.77	171.86	171.50	55.78	1,202.03	2,210.45	2,121.52	88.93	24.856	
9,500.00	8,289.00	19,907.00	9,811.90	34.07	171.86	171.50	55.78	1,202.03	2,284.23	2,196.33	87.91	25.985	
9,600.00	8,289.00	19,907.00	9,811.90	34.38	171.86	171.50	55.78	1,202.03	2,359.95	2,273.03	86.92	27.151	
9,700.00	8,289.00	19,907.00	9,811.90	34.70	171.86	171.50	55.78	1,202.03	2,437.41	2,351.43	85.98	28.349	
9,800.00	8,289.00	19,907.00	9,811.90	35.04	171.86	171.50	55.78	1,202.03	2,516.47	2,431.39	85.08	29.578	
9,900.00	8,289.00	19,907.00	9,811.90	35.39	171.86	171.50	55.78	1,202.03	2,596.97	2,512.74	84.23	30.833	
10,000.00	8,289.00	19,907.00	9,811.90	35.75	171.86	171.50	55.78	1,202.03	2,678.78	2,595.36	83.42	32.113	
10,100.00	8,289.00	19,907.00	9,811.90	36.12	171.86	171.50	55.78	1,202.03	2,761.79	2,679.14	82.65	33.414	
10,200.00	8,289.00	19,907.00	9,811.90	36.51	171.86	171.50	55.78	1,202.03	2,845.90	2,763.97	81.93	34.735	
10,300.00	8,289.00	19,907.00	9,811.90	36.90	171.86	171.50	55.78	1,202.03	2,931.00	2,849.75	81.25	36.073	
10,400.00	8,289.00	19,907.00	9,811.90	37.31	171.86	171.50	55.78	1,202.03	3,017.02	2,936.41	80.61	37.426	
10,500.00	8,289.00	19,907.00	9,811.90	37.72	171.86	171.50	55.78	1,202.03	3,103.87	3,023.86	80.01	38.793	
10,600.00	8,289.00	19,907.00	9,811.90	38.15	171.86	171.50	55.78	1,202.03	3,191.50	3,112.05	79.45	40.171	
10,700.00	8,289.00	19,907.00	9,811.90	38.58	171.86	171.50	55.78	1,202.03	3,279.83	3,200.92	78.92	41.561	
10,800.00	8,289.00	19,907.00	9,811.90	39.03	171.86	171.50	55.78	1,202.03	3,368.82	3,290.40	78.42	42.959	
10,900.00	8,289.00	19,907.00	9,811.90	39.48	171.86	171.50	55.78	1,202.03	3,458.41	3,380.45	77.95	44.365	
11,000.00	8,289.00	19,907.00	9,811.90	39.94	171.86	171.50	55.78	1,202.03	3,548.55	3,471.03	77.52	45.778	
11,100.00	8,289.00	19,907.00	9,811.90	40.41	171.86	171.50	55.78	1,202.03	3,639.21	3,562.10	77.11	47.196	
11,200.00	8,289.00	19,907.00	9,811.90	40.89	171.86	171.50	55.78	1,202.03	3,730.34	3,653.62	76.72	48.620	
11,300.00	8,289.00	19,907.00	9,811.90	41.38	171.86	171.50	55.78	1,202.03	3,821.92	3,745.56	76.37	50.047	
11,400.00	8,289.00	19,907.00	9,811.90	41.88	171.86	171.50	55.78	1,202.03	3,913.91	3,837.88	76.03	51.478	
11,500.00	8,289.00	19,907.00	9,811.90	42.38	171.86	171.50	55.78	1,202.03	4,006.29	3,930.57	75.72	52.911	
11,600.00	8,289.00	19,907.00	9,811.90	42.89	171.86	171.50	55.78	1,202.03	4,099.02	4,023.60	75.42	54.347	
11,700.00	8,289.00	19,907.00	9,811.90	43.41	171.86	171.50	55.78	1,202.03	4,192.09	4,116.94	75.15	55.784	
11,800.00	8,289.00	19,907.00	9,811.90	43.93	171.86	171.50	55.78	1,202.03	4,285.47	4,210.58	74.89	57.221	
11,900.00	8,289.00	19,907.00	9,811.90	44.46	171.86	171.50	55.78	1,202.03	4,379.14	4,304.49	74.65	58.660	
12,000.00	8,289.00	19,907.00	9,811.90	45.00	171.86	171.50	55.78	1,202.03	4,473.09	4,398.66	74.43	60.098	
12,100.00	8,289.00	19,907.00	9,811.90	45.55	171.86	171.50	55.78	1,202.03	4,567.29	4,493.07	74.22	61.537	
12,200.00	8,289.00	19,907.00	9,811.90	46.10	171.86	171.50	55.78	1,202.03	4,661.74	4,587.71	74.03	62.974	
12,300.00	8,289.00	19,907.00	9,811.90	46.65	171.86	171.50	55.78	1,202.03	4,756.41	4,682.56	73.84	64.411	
12,400.00	8,289.00	19,907.00	9,811.90	47.21	171.86	171.50	55.78	1,202.03	4,851.29	4,777.62	73.68	65.847	
12,500.00	8,289.00	19,907.00	9,811.90	47.78	171.86	171.50	55.78	1,202.03	4,946.38	4,872.86	73.52	67.281	
12,600.00	8,289.00	19,907.00	9,811.90	48.35	171.86	171.50	55.78	1,202.03	5,041.66	4,968.29	73.37	68.713	
12,688.51	8,289.00	19,907.00	9,811.90	48.86	171.86	171.50	55.78	1,202.03	5,126.13	5,052.88	73.25	69.980	
12,700.00	8,289.00	19,907.00	9,811.90	48.93	171.86	174.99	55.78	1,202.03	5,137.12	5,063.88	73.24	70.143	
12,750.00	8,289.00	19,907.00	9,811.90	49.23	171.86	-169.63	55.78	1,202.03	5,184.94	5,111.72	73.22	70.814	
12,800.00	8,289.00	19,907.00	9,811.90	49.53	171.86	-155.54	55.78	1,202.03	5,232.59	5,159.32	73.27	71.419	
12,850.00	8,289.00	19,907.00	9,811.90	49.84	171.86	-143.99	55.78	1,202.03	5,279.75	5,206.37	73.38	71.954	
12,900.00	8,289.00	19,907.00	9,811.90	50.15	171.86	-135.11	55.78	1,202.03	5,326.12	5,252.57	73.55	72.412	
12,950.00	8,289.00	19,907.00	9,811.90	50.47	171.86	-128.40	55.78	1,202.03	5,371.42	5,297.62	73.80	72.787	
13,000.00	8,289.00	19,907.00	9,811.90	50.79	171.86	-123.31	55.78	1,202.03	5,415.36	5,341.25	74.11	73.073	
13,050.00	8,289.00	19,907.00	9,811.90	51.10	171.86	-119.41	55.78	1,202.03	5,457.69	5,383.19	74.49	73.267	
13,100.00	8,289.00	19,907.00	9,811.90	51.40	171.86	-116.37	55.78	1,202.03	5,498.15	5,423.21	74.94	73.364	
13,150.00	8,289.00	19,907.00	9,811.90	51.70	171.86	-113.97	55.78	1,202.03	5,536.53	5,461.07	75.47	73.363	
13,200.00	8,289.00	19,907.00	9,811.90	51.99	171.86	-112.05	55.78	1,202.03	5,572.61	5,496.55	76.06	73.263	
13,250.00	8,289.00	19,907.00	9,811.90	52.26	171.86	-110.50	55.78	1,202.03	5,606.19	5,529.46	76.73	73.064	
13,300.00	8,289.00	19,907.00	9,811.90	52.52	171.86	-109.24	55.78	1,202.03	5,637.09	5,559.62	77.47	72.767	
13,350.00	8,289.00	19,907.00	9,811.90	52.77	171.86	-108.22	55.78	1,202.03	5,665.15	5,586.87	78.27	72.377	
13,400.00	8,289.00	19,907.00	9,811.90	53.00	171.86	-107.38	55.78	1,202.03	5,690.22	5,611.07	79.14	71.897	
13,450.00	8,289.00	19,907.00	9,811.90	53.20	171.86	-106.71	55.78	1,202.03	5,712.17	5,632.09	80.08	71.333	

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 3H
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 3H	**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
13,500.00	8,289.00	19,907.00	9,811.90	53.39	171.86	-106.17	55.78	1,202.03	5,730.89	5,649.82	81.07	70.692	
13,550.00	8,289.00	19,907.00	9,811.90	53.55	171.86	-105.75	55.78	1,202.03	5,746.29	5,664.17	82.11	69.981	
13,600.00	8,289.00	19,907.00	9,811.90	53.69	171.86	-105.44	55.78	1,202.03	5,758.28	5,675.08	83.20	69.207	
13,650.00	8,289.00	19,907.00	9,811.90	53.80	171.86	-105.22	55.78	1,202.03	5,766.82	5,682.48	84.34	68.378	
13,700.00	8,289.00	19,907.00	9,811.90	53.89	171.86	-105.10	55.78	1,202.03	5,771.86	5,686.35	85.51	67.503	
13,750.00	8,289.00	19,907.00	9,811.90	53.96	171.86	-105.06	55.78	1,202.03	5,773.36	5,686.66	86.70	66.590	
13,800.00	8,289.00	19,907.00	9,811.90	54.00	171.86	-105.11	55.78	1,202.03	5,771.34	5,683.42	87.92	65.647	
13,850.00	8,289.00	19,907.00	9,811.90	54.02	171.86	-105.25	55.78	1,202.03	5,765.78	5,676.64	89.14	64.681	
13,900.00	8,289.00	19,907.00	9,811.90	54.01	171.86	-105.48	55.78	1,202.03	5,756.74	5,666.36	90.37	63.700	
13,950.00	8,289.00	19,907.00	9,811.90	53.99	171.86	-105.80	55.78	1,202.03	5,744.23	5,652.64	91.60	62.710	
14,000.00	8,289.00	19,907.00	9,811.90	53.94	171.86	-106.24	55.78	1,202.03	5,728.34	5,635.53	92.81	61.719	
14,050.00	8,289.00	19,907.00	9,811.90	53.88	171.86	-106.80	55.78	1,202.03	5,709.14	5,615.13	94.01	60.731	
14,100.00	8,289.00	19,907.00	9,811.90	53.80	171.86	-107.49	55.78	1,202.03	5,686.72	5,591.55	95.17	59.752	
14,150.00	8,289.00	19,907.00	9,811.90	53.70	171.86	-108.35	55.78	1,202.03	5,661.21	5,564.91	96.30	58.787	
14,200.00	8,289.00	19,907.00	9,811.90	53.59	171.86	-109.41	55.78	1,202.03	5,632.72	5,535.34	97.39	57.840	
14,250.00	8,289.00	19,907.00	9,811.90	53.47	171.86	-110.71	55.78	1,202.03	5,601.42	5,503.00	98.42	56.914	
14,300.00	8,289.00	19,907.00	9,811.90	53.33	171.86	-112.31	55.78	1,202.03	5,567.46	5,468.07	99.39	56.014	
14,350.00	8,289.00	19,907.00	9,811.90	53.20	171.86	-114.29	55.78	1,202.03	5,531.03	5,430.73	100.30	55.142	
14,400.00	8,289.00	19,907.00	9,811.90	53.05	171.86	-116.78	55.78	1,202.03	5,492.33	5,391.19	101.14	54.302	
14,450.00	8,289.00	19,907.00	9,811.90	52.91	171.86	-119.92	55.78	1,202.03	5,451.58	5,349.67	101.91	53.496	
14,500.00	8,289.00	19,907.00	9,811.90	52.76	171.86	-123.98	55.78	1,202.03	5,409.00	5,306.41	102.59	52.725	
14,530.51	8,289.00	19,907.00	9,811.90	52.67	171.86	-127.03	55.78	1,202.03	5,382.23	5,279.27	102.96	52.274	
14,600.00	8,289.00	19,907.00	9,811.90	52.46	171.86	-129.40	55.78	1,202.03	5,320.29	5,216.54	103.75	51.279	
14,700.00	8,289.00	19,907.00	9,811.90	52.18	171.86	-133.26	55.78	1,202.03	5,230.07	5,125.25	104.82	49.894	
14,762.01	8,289.00	19,907.00	9,811.90	52.01	171.86	-135.97	55.78	1,202.03	5,173.53	5,068.09	105.45	49.063	
14,800.00	8,289.00	19,907.00	9,811.90	51.90	171.86	-135.97	55.78	1,202.03	5,138.79	5,032.97	105.82	48.561	
14,900.00	8,289.00	19,907.00	9,811.90	51.64	171.86	-135.97	55.78	1,202.03	5,047.57	4,940.73	106.83	47.247	
15,000.00	8,289.00	19,907.00	9,811.90	51.38	171.86	-135.97	55.78	1,202.03	4,956.68	4,848.79	107.89	45.941	
15,100.00	8,289.00	19,907.00	9,811.90	51.14	171.86	-135.97	55.78	1,202.03	4,866.15	4,757.15	109.00	44.644	
15,200.00	8,289.00	19,907.00	9,811.90	50.90	171.86	-135.97	55.78	1,202.03	4,776.00	4,665.84	110.15	43.358	
15,300.00	8,289.00	19,907.00	9,811.90	50.66	171.86	-135.97	55.78	1,202.03	4,686.24	4,574.89	111.36	42.083	
15,400.00	8,289.00	19,907.00	9,811.90	50.44	171.86	-135.97	55.78	1,202.03	4,596.92	4,484.30	112.62	40.819	
15,500.00	8,289.00	19,907.00	9,811.90	50.23	171.86	-135.97	55.78	1,202.03	4,508.03	4,394.10	113.93	39.568	
15,600.00	8,289.00	19,907.00	9,811.90	50.02	171.86	-135.97	55.78	1,202.03	4,419.63	4,304.32	115.31	38.330	
15,700.00	8,289.00	19,907.00	9,811.90	49.82	171.86	-135.97	55.78	1,202.03	4,331.73	4,214.99	116.74	37.106	
15,800.00	8,289.00	19,907.00	9,811.90	49.64	171.86	-135.97	55.78	1,202.03	4,244.36	4,126.12	118.24	35.896	
15,900.00	8,289.00	19,907.00	9,811.90	49.46	171.86	-135.97	55.78	1,202.03	4,157.56	4,037.76	119.81	34.702	
16,000.00	8,289.00	19,907.00	9,811.90	49.29	171.86	-135.97	55.78	1,202.03	4,071.37	3,949.93	121.44	33.525	
16,100.00	8,289.00	19,907.00	9,811.90	49.13	171.86	-135.97	55.78	1,202.03	3,985.83	3,862.68	123.15	32.365	
16,200.00	8,289.00	19,907.00	9,811.90	48.98	171.86	-135.97	55.78	1,202.03	3,900.97	3,776.03	124.94	31.223	
16,300.00	8,289.00	19,907.00	9,811.90	48.84	171.86	-135.97	55.78	1,202.03	3,816.85	3,690.05	126.80	30.101	
16,400.00	8,289.00	19,907.00	9,811.90	48.71	171.86	-135.97	55.78	1,202.03	3,733.51	3,604.76	128.75	28.999	
16,500.00	8,289.00	19,907.00	9,811.90	48.59	171.86	-135.97	55.78	1,202.03	3,651.00	3,520.22	130.78	27.918	
16,600.00	8,289.00	19,907.00	9,811.90	48.48	171.86	-135.97	55.78	1,202.03	3,569.39	3,436.50	132.89	26.859	
16,700.00	8,289.00	19,907.00	9,811.90	48.38	171.86	-135.97	55.78	1,202.03	3,488.74	3,353.64	135.10	25.824	
16,800.00	8,289.00	19,907.00	9,811.90	48.29	171.86	-135.97	55.78	1,202.03	3,409.11	3,271.71	137.40	24.812	
16,900.00	8,289.00	19,907.00	9,811.90	48.21	171.86	-135.97	55.78	1,202.03	3,330.58	3,190.79	139.79	23.826	
17,000.00	8,289.00	19,907.00	9,811.90	48.15	171.86	-135.97	55.78	1,202.03	3,253.23	3,110.96	142.27	22.866	
17,100.00	8,289.00	19,907.00	9,811.90	48.09	171.86	-135.97	55.78	1,202.03	3,177.15	3,032.29	144.85	21.934	
17,200.00	8,289.00	19,907.00	9,811.90	48.05	171.86	-135.97	55.78	1,202.03	3,102.42	2,954.89	147.53	21.030	
17,300.00	8,289.00	19,907.00	9,811.90	48.01	171.86	-135.97	55.78	1,202.03	3,029.15	2,878.86	150.29	20.155	
17,400.00	8,289.00	19,907.00	9,811.90	47.99	171.86	-135.97	55.78	1,202.03	2,957.45	2,804.29	153.15	19.310	

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 3H
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 3H	**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
17,500.00	8,289.00	19,907.00	9,811.90	47.99	171.86	-135.97	55.78	1,202.03	2,887.43	2,731.33	156.10	18.497	
17,600.00	8,289.00	19,907.00	9,811.90	47.99	171.86	-135.97	55.78	1,202.03	2,819.22	2,660.09	159.13	17.717	
17,700.00	8,289.00	19,907.00	9,811.90	48.01	171.86	-135.97	55.78	1,202.03	2,752.95	2,590.72	162.23	16.970	
17,800.00	8,289.00	19,907.00	9,811.90	48.04	171.86	-135.97	55.78	1,202.03	2,688.77	2,523.37	165.39	16.257	
17,900.00	8,289.00	19,907.00	9,811.90	48.08	171.86	-135.97	55.78	1,202.03	2,626.83	2,458.22	168.61	15.579	
18,000.00	8,289.00	19,907.00	9,811.90	48.14	171.86	-135.97	55.78	1,202.03	2,567.29	2,395.42	171.86	14.938	
18,100.00	8,289.00	19,907.00	9,811.90	48.21	171.86	-135.97	55.78	1,202.03	2,510.32	2,335.19	175.13	14.334	
18,200.00	8,289.00	19,907.00	9,811.90	48.29	171.86	-135.97	55.78	1,202.03	2,456.10	2,277.70	178.40	13.767	
18,300.00	8,289.00	19,907.00	9,811.90	48.39	171.86	-135.97	55.78	1,202.03	2,404.83	2,223.19	181.63	13.240	
18,400.00	8,289.00	19,907.00	9,811.90	48.50	171.86	-135.97	55.78	1,202.03	2,356.68	2,171.86	184.81	12.752	
18,500.00	8,289.00	19,907.00	9,811.90	48.63	171.86	-135.97	55.78	1,202.03	2,311.85	2,123.96	187.90	12.304	
18,600.00	8,289.00	19,907.00	9,811.90	48.76	171.86	-135.97	55.78	1,202.03	2,270.55	2,079.70	190.86	11.897	
18,700.00	8,289.00	19,907.00	9,811.90	48.92	171.86	-135.97	55.78	1,202.03	2,232.97	2,039.32	193.65	11.531	
18,800.00	8,289.00	19,907.00	9,811.90	49.08	171.86	-135.97	55.78	1,202.03	2,199.30	2,003.05	196.24	11.207	
18,900.00	8,289.00	19,907.00	9,811.90	49.26	171.86	-135.97	55.78	1,202.03	2,169.71	1,971.12	198.59	10.926	
19,000.00	8,289.00	19,907.00	9,811.90	49.46	171.86	-135.97	55.78	1,202.03	2,144.38	1,943.74	200.65	10.687	
19,100.00	8,289.00	19,907.00	9,811.90	50.02	171.86	-135.97	55.78	1,202.03	2,123.47	1,921.40	202.08	10.508	
19,101.33	8,289.00	19,907.00	9,811.90	50.05	171.86	-135.97	55.78	1,202.03	2,123.22	1,921.13	202.09	10.506	SF

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.34	0.23	19.99	19.99				
100.00	100.00	100.00	100.00	0.28	0.28	89.34	0.23	19.99	19.99	19.44	0.55	36.213	
200.00	200.00	200.00	200.00	0.63	0.63	89.34	0.23	19.99	19.99	18.72	1.27	15.754	
300.00	300.00	300.00	300.00	0.99	0.99	89.34	0.23	19.99	19.99	18.01	1.99	10.066	
400.00	400.00	400.00	400.00	1.35	1.35	89.34	0.23	19.99	19.99	17.29	2.70	7.396	
500.00	500.00	500.00	500.00	1.71	1.71	89.34	0.23	19.99	19.99	16.57	3.42	5.846	CC, ES
600.00	600.00	599.29	599.27	2.07	2.06	90.52	-0.20	21.66	21.67	17.55	4.12	5.255	
700.00	700.00	698.34	698.18	2.43	2.40	93.15	-1.47	26.64	26.74	21.92	4.82	5.550	
800.00	800.00	797.49	796.99	2.79	2.75	95.77	-3.49	34.56	34.87	29.35	5.52	6.321	
900.00	900.00	897.11	896.23	3.14	3.09	97.47	-5.64	42.98	43.51	37.29	6.22	6.992	
1,000.00	1,000.00	996.73	995.48	3.50	3.45	98.61	-7.79	51.39	52.17	45.24	6.93	7.528	
1,100.00	1,100.00	1,094.38	1,092.61	3.86	3.79	99.71	-10.44	61.04	62.36	54.74	7.62	8.183	
1,200.00	1,200.00	1,191.17	1,188.49	4.22	4.14	100.96	-14.26	73.63	75.88	67.58	8.30	9.140	
1,300.00	1,300.00	1,286.95	1,282.89	4.58	4.49	102.17	-19.21	89.06	92.70	83.73	8.97	10.333	
1,400.00	1,400.00	1,381.55	1,375.54	4.94	4.84	103.25	-25.23	107.16	112.78	103.15	9.63	11.713	
1,500.00	1,500.00	1,477.59	1,469.07	5.29	5.20	104.16	-32.24	127.83	135.41	125.10	10.31	13.128	
1,600.00	1,600.00	1,574.93	1,563.81	5.65	5.56	104.82	-39.42	148.95	158.26	147.24	11.03	14.354	
1,700.00	1,700.00	1,672.27	1,658.56	6.01	5.93	105.32	-46.59	170.07	181.13	169.40	11.74	15.429	
1,800.00	1,800.00	1,769.61	1,753.31	6.37	6.30	105.71	-53.77	191.18	204.02	191.56	12.46	16.378	
1,900.00	1,899.98	1,867.33	1,848.43	6.72	6.67	1.30	-60.97	212.39	225.20	212.04	13.16	17.108	
2,000.00	1,999.84	1,965.72	1,944.21	7.06	7.05	1.57	-68.22	233.74	242.97	229.10	13.87	17.524	
2,100.00	2,099.45	2,064.68	2,040.53	7.40	7.43	1.84	-75.52	255.21	257.30	242.72	14.57	17.653	
2,200.00	2,198.70	2,164.07	2,137.28	7.74	7.81	2.10	-82.84	276.77	268.17	252.88	15.29	17.537	
2,300.00	2,297.47	2,263.78	2,234.34	8.09	8.20	2.37	-90.19	298.41	275.58	259.56	16.01	17.208	
2,400.00	2,395.62	2,363.69	2,331.59	8.44	8.59	2.67	-97.56	320.08	279.51	262.77	16.74	16.695	
2,491.84	2,485.13	2,455.51	2,420.97	8.76	8.94	2.97	-104.32	340.01	280.06	262.64	17.41	16.081	
2,500.00	2,493.06	2,463.67	2,428.91	8.79	8.97	2.99	-104.93	341.78	279.98	262.50	17.48	16.022	
2,600.00	2,590.16	2,563.65	2,526.23	9.14	9.36	3.34	-112.29	363.47	278.98	260.77	18.21	15.319	
2,700.00	2,687.25	2,663.63	2,623.55	9.50	9.75	3.68	-119.66	385.16	278.00	259.05	18.95	14.668	
2,800.00	2,784.35	2,763.62	2,720.87	9.86	10.14	4.03	-127.03	406.86	277.03	257.33	19.70	14.064	
2,900.00	2,881.45	2,863.60	2,818.19	10.23	10.53	4.38	-134.40	428.55	276.06	255.62	20.44	13.503	
3,000.00	2,978.55	2,963.58	2,915.51	10.60	10.92	4.73	-141.77	450.24	275.11	253.91	21.20	12.980	
3,100.00	3,075.65	3,063.56	3,012.83	10.96	11.31	5.09	-149.14	471.94	274.17	252.22	21.95	12.491	
3,200.00	3,172.74	3,163.54	3,110.15	11.34	11.70	5.44	-156.51	493.63	273.24	250.53	22.70	12.035	
3,300.00	3,269.84	3,263.52	3,207.48	11.71	12.09	5.80	-163.88	515.32	272.31	248.85	23.46	11.607	
3,400.00	3,366.94	3,363.50	3,304.80	12.08	12.48	6.17	-171.25	537.02	271.40	247.18	24.22	11.205	
3,500.00	3,464.04	3,463.48	3,402.12	12.46	12.87	6.53	-178.62	558.71	270.50	245.52	24.98	10.828	
3,600.00	3,561.14	3,563.46	3,499.44	12.83	13.26	6.90	-185.99	580.40	269.62	243.87	25.75	10.472	
3,700.00	3,658.24	3,663.45	3,596.76	13.21	13.65	7.27	-193.36	602.10	268.74	242.23	26.51	10.138	
3,800.00	3,755.33	3,763.43	3,694.08	13.59	14.04	7.64	-200.73	623.79	267.87	240.60	27.27	9.821	
3,900.00	3,852.43	3,863.41	3,791.40	13.97	14.43	8.01	-208.10	645.48	267.02	238.98	28.04	9.522	
4,000.00	3,949.53	3,963.39	3,888.72	14.35	14.83	8.39	-215.47	667.18	266.17	237.37	28.81	9.239	
4,100.00	4,046.63	4,063.37	3,986.04	14.73	15.22	8.77	-222.84	688.87	265.34	235.77	29.58	8.971	
4,200.00	4,143.73	4,163.35	4,083.36	15.11	15.61	9.15	-230.21	710.56	264.52	234.18	30.35	8.717	
4,300.00	4,240.82	4,263.33	4,180.68	15.50	16.00	9.54	-237.58	732.25	263.72	232.60	31.12	8.475	
4,400.00	4,337.92	4,363.31	4,278.00	15.88	16.39	9.92	-244.95	753.95	262.92	231.03	31.89	8.245	
4,500.00	4,435.02	4,463.29	4,375.32	16.27	16.79	10.31	-252.32	775.64	262.13	229.48	32.66	8.027	
4,600.00	4,532.12	4,563.27	4,472.64	16.65	17.18	10.70	-259.68	797.33	261.36	227.93	33.43	7.818	
4,700.00	4,629.22	4,663.26	4,569.96	17.04	17.57	11.09	-267.05	819.03	260.60	226.40	34.20	7.620	
4,800.00	4,726.31	4,763.24	4,667.29	17.42	17.96	11.49	-274.42	840.72	259.86	224.88	34.97	7.430	
4,900.00	4,823.41	4,863.22	4,764.61	17.81	18.36	11.89	-281.79	862.41	259.12	223.37	35.75	7.248	
5,000.00	4,920.51	4,963.20	4,861.93	18.20	18.75	12.29	-289.16	884.11	258.40	221.88	36.52	7.075	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,017.61	5,063.18	4,959.25	18.58	19.14	12.69	-296.53	905.80	257.69	220.39	37.30	6.909	
5,200.00	5,114.71	5,163.16	5,056.57	18.97	19.54	13.09	-303.90	927.49	256.99	218.92	38.07	6.750	
5,300.00	5,211.80	5,263.14	5,153.89	19.36	19.93	13.50	-311.27	949.19	256.31	217.46	38.85	6.598	
5,400.00	5,308.90	5,363.12	5,251.21	19.75	20.32	13.91	-318.64	970.88	255.64	216.02	39.62	6.452	
5,500.00	5,406.00	5,463.10	5,348.53	20.14	20.72	14.32	-326.01	992.57	254.98	214.58	40.40	6.312	
5,600.00	5,503.10	5,563.09	5,445.85	20.53	21.11	14.73	-333.38	1,014.27	254.33	213.16	41.17	6.177	
5,700.00	5,600.20	5,663.07	5,543.17	20.91	21.50	15.15	-340.75	1,035.96	253.70	211.75	41.95	6.048	
5,800.00	5,697.30	5,763.05	5,640.49	21.30	21.89	15.56	-348.12	1,057.65	253.08	210.36	42.72	5.924	
5,900.00	5,794.39	5,863.03	5,737.81	21.69	22.29	15.98	-355.49	1,079.34	252.48	208.98	43.50	5.804	
6,000.00	5,891.49	5,963.01	5,835.13	22.09	22.68	16.40	-362.86	1,101.04	251.89	207.61	44.27	5.689	
6,100.00	5,988.59	6,062.99	5,932.45	22.48	23.07	16.83	-370.23	1,122.73	251.31	206.26	45.05	5.578	
6,200.00	6,085.69	6,162.97	6,029.77	22.87	23.47	17.25	-377.60	1,144.42	250.74	204.92	45.83	5.471	
6,300.00	6,182.79	6,262.95	6,127.10	23.26	23.86	17.68	-384.97	1,166.12	250.19	203.59	46.60	5.369	
6,400.00	6,279.88	6,362.93	6,224.42	23.65	24.26	18.11	-392.34	1,187.81	249.66	202.28	47.38	5.269	
6,500.00	6,376.98	6,462.92	6,321.74	24.04	24.65	18.54	-399.70	1,209.50	249.14	200.98	48.16	5.173	
6,600.00	6,474.08	6,562.90	6,419.06	24.43	25.04	18.97	-407.07	1,231.20	248.63	199.69	48.93	5.081	
6,700.00	6,571.18	6,662.88	6,516.38	24.82	25.44	19.40	-414.44	1,252.89	248.13	198.42	49.71	4.992	
6,800.00	6,668.28	6,762.86	6,613.70	25.22	25.83	19.84	-421.81	1,274.58	247.66	197.17	50.49	4.905	
6,900.00	6,765.37	6,862.84	6,711.02	25.61	26.22	20.28	-429.18	1,296.28	247.19	195.93	51.27	4.822	
7,000.00	6,862.47	6,962.82	6,808.34	26.00	26.62	20.72	-436.55	1,317.97	246.74	194.70	52.04	4.741	
7,100.00	6,959.57	7,062.80	6,905.66	26.39	27.01	21.16	-443.92	1,339.66	246.30	193.48	52.82	4.663	
7,157.72	7,015.62	7,119.48	6,960.83	26.62	27.23	21.41	-448.12	1,351.96	246.07	192.81	53.26	4.621	SF
7,200.00	7,056.67	7,150.00	6,990.45	26.78	27.35	21.75	-451.41	1,358.50	246.79	193.41	53.39	4.623	
7,300.00	7,153.77	7,232.97	7,069.77	27.18	27.68	24.21	-468.45	1,375.56	254.16	200.46	53.70	4.733	
7,400.00	7,250.86	7,307.64	7,138.56	27.57	27.97	28.04	-493.65	1,389.76	270.67	217.21	53.46	5.063	
7,500.00	7,347.96	7,375.86	7,198.22	27.96	28.23	32.43	-524.45	1,401.57	297.47	244.86	52.61	5.655	
7,600.00	7,445.06	7,436.76	7,248.20	28.36	28.45	36.69	-557.88	1,411.03	334.94	283.75	51.19	6.543	
7,700.00	7,542.16	7,490.30	7,289.13	28.75	28.64	40.44	-591.57	1,418.41	382.45	333.05	49.40	7.742	
7,800.00	7,639.26	7,536.97	7,322.20	29.14	28.79	43.59	-623.99	1,424.09	438.73	391.26	47.47	9.241	
7,900.00	7,736.36	7,577.50	7,348.78	29.54	28.92	46.17	-654.27	1,428.41	502.32	456.73	45.59	11.019	
7,902.86	7,739.13	7,578.57	7,349.45	29.55	28.93	46.24	-655.10	1,428.52	504.23	458.70	45.53	11.074	
7,950.00	7,784.76	7,600.00	7,362.62	29.73	28.99	32.43	-671.88	1,430.56	535.22	490.35	44.87	11.929	
8,000.00	7,832.63	7,615.83	7,371.95	29.93	29.04	21.44	-684.58	1,431.96	566.63	522.90	43.73	12.956	
8,050.00	7,879.58	7,635.50	7,383.07	30.12	29.10	14.30	-700.73	1,433.57	596.45	553.66	42.79	13.938	
8,100.00	7,925.27	7,650.00	7,390.91	30.31	29.15	9.51	-712.87	1,434.66	624.57	583.01	41.56	15.028	
8,150.00	7,969.35	7,675.67	7,404.07	30.49	29.22	6.57	-734.84	1,436.41	650.72	609.83	40.89	15.913	
8,200.00	8,011.47	7,700.00	7,415.64	30.67	29.30	4.54	-756.20	1,437.83	674.97	634.84	40.13	16.819	
8,250.00	8,051.32	7,716.68	7,423.07	30.83	29.34	3.01	-771.11	1,438.67	697.12	658.13	38.99	17.879	
8,300.00	8,088.60	7,750.00	7,436.62	30.99	29.44	2.09	-801.51	1,440.02	717.41	678.78	38.63	18.572	
8,350.00	8,123.02	7,750.00	7,436.62	31.14	29.44	1.12	-801.51	1,440.02	735.12	698.34	36.78	19.988	
8,400.00	8,154.32	7,779.29	7,447.10	31.28	29.52	0.61	-828.85	1,440.85	750.62	714.36	36.25	20.706	
8,450.00	8,182.27	7,800.00	7,453.68	31.42	29.57	0.16	-848.48	1,441.24	763.93	728.54	35.39	21.586	
8,500.00	8,206.64	7,825.96	7,460.95	31.54	29.64	-0.17	-873.39	1,441.48	774.94	740.17	34.77	22.286	
8,550.00	8,227.26	7,849.15	7,466.72	31.66	29.70	-0.46	-895.86	1,441.57	783.37	749.27	34.10	22.973	
8,600.00	8,243.96	7,878.61	7,473.40	31.78	29.78	-0.71	-924.55	1,441.69	788.95	755.24	33.70	23.408	
8,621.67	8,249.95	7,900.00	7,477.79	31.83	29.84	-0.81	-945.48	1,441.78	790.54	756.70	33.84	23.364	
8,700.00	8,267.63	7,937.67	7,484.56	32.00	29.94	-0.81	-982.54	1,441.94	793.84	760.77	33.07	24.005	
8,800.00	8,282.55	8,000.00	7,493.08	32.23	30.11	-0.81	-1,044.27	1,442.21	794.97	762.27	32.70	24.311	
8,900.00	8,288.79	8,055.77	7,497.85	32.46	30.26	-0.81	-1,099.83	1,442.46	792.51	760.15	32.36	24.490	
8,921.67	8,289.00	8,068.57	7,498.56	32.51	30.29	-0.81	-1,112.61	1,442.52	791.51	759.18	32.33	24.480	
9,000.00	8,289.00	8,114.91	7,499.94	32.69	30.42	-0.81	-1,158.93	1,442.73	789.17	756.85	32.32	24.416	
9,018.65	8,289.00	8,125.95	7,499.99	32.74	30.45	-0.81	-1,169.97	1,442.78	789.08	756.74	32.34	24.397	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,289.00	8,207.30	7,499.99	32.94	30.67	-0.82	-1,251.32	1,443.15	789.08	756.10	32.98	23.925	
9,200.00	8,289.00	8,307.30	7,499.99	33.20	30.96	-0.82	-1,351.32	1,443.61	789.08	755.27	33.82	23.334	
9,300.00	8,289.00	8,407.30	7,499.99	33.48	31.26	-0.82	-1,451.32	1,444.06	789.08	754.38	34.70	22.738	
9,400.00	8,289.00	8,507.30	7,499.99	33.77	31.58	-0.82	-1,551.32	1,444.52	789.08	753.45	35.64	22.142	
9,500.00	8,289.00	8,607.30	7,500.00	34.07	31.91	-0.82	-1,651.32	1,444.98	789.08	752.47	36.61	21.551	
9,600.00	8,289.00	8,707.30	7,500.00	34.38	32.25	-0.82	-1,751.31	1,445.44	789.08	751.45	37.63	20.968	
9,700.00	8,289.00	8,807.30	7,500.00	34.70	32.60	-0.82	-1,851.31	1,445.89	789.08	750.40	38.69	20.397	
9,800.00	8,289.00	8,907.30	7,500.00	35.04	32.97	-0.82	-1,951.31	1,446.35	789.09	749.31	39.78	19.838	
9,900.00	8,289.00	9,007.30	7,500.00	35.39	33.35	-0.82	-2,051.31	1,446.81	789.09	748.19	40.90	19.295	
10,000.00	8,289.00	9,107.30	7,500.00	35.75	33.74	-0.82	-2,151.31	1,447.27	789.09	747.04	42.04	18.768	
10,100.00	8,289.00	9,207.30	7,500.00	36.12	34.14	-0.83	-2,251.31	1,447.72	789.09	745.87	43.22	18.257	
10,200.00	8,289.00	9,307.30	7,500.00	36.51	34.55	-0.83	-2,351.31	1,448.18	789.09	744.67	44.42	17.764	
10,300.00	8,289.00	9,407.30	7,500.00	36.90	34.97	-0.83	-2,451.31	1,448.64	789.09	743.44	45.64	17.289	
10,400.00	8,289.00	9,507.30	7,500.00	37.31	35.40	-0.83	-2,551.31	1,449.10	789.09	742.20	46.89	16.830	
10,500.00	8,289.00	9,607.30	7,500.00	37.72	35.85	-0.83	-2,651.31	1,449.56	789.09	740.94	48.15	16.389	
10,600.00	8,289.00	9,707.30	7,500.00	38.15	36.30	-0.83	-2,751.30	1,450.01	789.09	739.66	49.43	15.965	
10,700.00	8,289.00	9,807.30	7,500.00	38.58	36.76	-0.83	-2,851.30	1,450.47	789.09	738.36	50.72	15.557	
10,800.00	8,289.00	9,907.30	7,500.00	39.03	37.23	-0.83	-2,951.30	1,450.93	789.09	737.05	52.03	15.165	
10,900.00	8,289.00	10,007.30	7,500.00	39.48	37.71	-0.83	-3,051.30	1,451.39	789.09	735.73	53.36	14.788	
11,000.00	8,289.00	10,107.30	7,500.00	39.94	38.20	-0.84	-3,151.30	1,451.84	789.09	734.39	54.70	14.427	
11,100.00	8,289.00	10,207.30	7,500.00	40.41	38.70	-0.84	-3,251.30	1,452.30	789.09	733.04	56.05	14.079	
11,200.00	8,289.00	10,307.30	7,500.00	40.89	39.20	-0.84	-3,351.30	1,452.76	789.09	731.68	57.41	13.745	
11,300.00	8,289.00	10,407.30	7,500.00	41.38	39.72	-0.84	-3,451.30	1,453.22	789.09	730.31	58.78	13.425	
11,400.00	8,289.00	10,507.30	7,500.00	41.88	40.24	-0.84	-3,551.30	1,453.67	789.09	728.93	60.16	13.116	
11,500.00	8,289.00	10,607.30	7,500.00	42.38	40.77	-0.84	-3,651.30	1,454.13	789.09	727.54	61.55	12.820	
11,600.00	8,289.00	10,707.30	7,500.00	42.89	41.30	-0.84	-3,751.29	1,454.59	789.09	726.14	62.95	12.535	
11,700.00	8,289.00	10,807.30	7,500.00	43.41	41.84	-0.84	-3,851.29	1,455.05	789.09	724.73	64.36	12.261	
11,800.00	8,289.00	10,907.30	7,500.00	43.93	42.39	-0.84	-3,951.29	1,455.51	789.09	723.32	65.77	11.998	
11,900.00	8,289.00	11,007.30	7,500.00	44.46	42.95	-0.84	-4,051.29	1,455.96	789.09	721.90	67.19	11.744	
12,000.00	8,289.00	11,107.30	7,500.00	45.00	43.51	-0.85	-4,151.29	1,456.42	789.09	720.47	68.62	11.500	
12,100.00	8,289.00	11,207.30	7,500.00	45.55	44.07	-0.85	-4,251.29	1,456.88	789.09	719.03	70.05	11.264	
12,200.00	8,289.00	11,307.30	7,500.00	46.10	44.65	-0.85	-4,351.29	1,457.34	789.09	717.60	71.49	11.037	
12,300.00	8,289.00	11,407.30	7,500.00	46.65	45.23	-0.85	-4,451.29	1,457.79	789.09	716.15	72.94	10.819	
12,400.00	8,289.00	11,507.30	7,500.00	47.21	45.81	-0.85	-4,551.29	1,458.25	789.09	714.70	74.39	10.608	
12,400.05	8,289.00	11,507.35	7,500.00	47.21	45.81	-0.85	-4,551.33	1,458.25	789.09	714.70	74.39	10.608	
12,500.00	8,289.00	11,606.93	7,500.00	47.78	46.39	-0.88	-4,650.91	1,459.11	789.09	713.25	75.85	10.404	
12,600.00	8,289.00	11,704.61	7,500.00	48.35	46.99	-1.52	-4,748.09	1,468.35	789.28	711.73	77.55	10.177	
12,688.51	8,289.00	11,788.33	7,500.00	48.86	47.52	-2.73	-4,830.02	1,485.38	789.95	710.64	79.31	9.960	
12,700.00	8,289.00	11,800.00	7,500.00	48.93	47.59	-2.95	-4,841.29	1,488.41	790.10	710.52	79.58	9.928	
12,750.00	8,289.00	11,844.96	7,500.00	49.23	47.88	-3.76	-4,884.28	1,501.57	790.79	710.23	80.56	9.817	
12,800.00	8,289.00	11,890.67	7,500.00	49.53	48.17	-4.51	-4,927.18	1,517.34	791.54	710.05	81.49	9.713	
12,850.00	8,289.00	11,936.13	7,500.00	49.84	48.47	-5.16	-4,968.91	1,535.35	792.30	709.94	82.36	9.620	
12,900.00	8,289.00	11,981.38	7,500.00	50.15	48.76	-5.72	-5,009.40	1,555.53	793.02	709.86	83.16	9.536	
12,950.00	8,289.00	12,026.46	7,500.00	50.47	49.05	-6.18	-5,048.58	1,577.82	793.67	709.76	83.90	9.459	
13,000.00	8,289.00	12,071.40	7,500.00	50.79	49.34	-6.54	-5,086.37	1,602.13	794.20	709.62	84.58	9.389	
13,050.00	8,289.00	12,116.24	7,500.00	51.10	49.62	-6.80	-5,122.70	1,628.41	794.60	709.39	85.21	9.325	
13,100.00	8,289.00	12,161.02	7,500.00	51.40	49.90	-6.95	-5,157.50	1,656.59	794.85	709.05	85.79	9.265	
13,150.00	8,289.00	12,205.77	7,500.00	51.70	50.18	-7.00	-5,190.69	1,686.59	794.92	708.59	86.33	9.208	
13,200.00	8,289.00	12,250.00	7,500.00	51.99	50.44	-6.94	-5,221.86	1,717.97	794.83	708.02	86.82	9.155	
13,250.00	8,289.00	12,295.30	7,500.00	52.26	50.71	-6.78	-5,251.98	1,751.79	794.57	707.25	87.32	9.099	
13,300.00	8,289.00	12,340.15	7,500.00	52.52	50.97	-6.51	-5,279.93	1,786.86	794.16	706.36	87.80	9.045	
13,350.00	8,289.00	12,385.11	7,500.00	52.77	51.21	-6.15	-5,306.00	1,823.48	793.62	705.34	88.27	8.990	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	8,289.00	12,430.20	7,500.00	53.00	51.45	-5.68	-5,330.09	1,861.59	792.96	704.21	88.76	8.934	
13,450.00	8,289.00	12,475.46	7,500.00	53.20	51.69	-5.11	-5,352.15	1,901.11	792.24	702.97	89.26	8.875	
13,500.00	8,289.00	12,520.94	7,500.00	53.39	51.91	-4.45	-5,372.09	1,941.97	791.48	701.68	89.80	8.814	
13,550.00	8,289.00	12,566.67	7,500.00	53.55	52.12	-3.70	-5,389.85	1,984.11	790.73	700.35	90.37	8.750	
13,600.00	8,289.00	12,612.71	7,500.00	53.69	52.32	-2.86	-5,405.33	2,027.46	790.05	699.05	90.99	8.682	
13,650.00	8,289.00	12,659.09	7,500.00	53.80	52.51	-1.94	-5,418.46	2,071.94	789.49	697.82	91.67	8.613	
13,700.00	8,289.00	12,705.88	7,500.00	53.89	52.69	-0.95	-5,429.14	2,117.48	789.12	696.72	92.39	8.541	
13,744.85	8,289.00	12,748.24	7,500.00	53.95	52.84	0.00	-5,436.58	2,159.18	789.00	695.90	93.09	8.475	
13,750.00	8,289.00	12,753.12	7,500.00	53.96	52.85	0.11	-5,437.30	2,164.01	789.00	695.82	93.18	8.468	
13,800.00	8,289.00	12,800.89	7,500.00	54.00	53.01	1.24	-5,442.82	2,211.46	789.21	695.19	94.02	8.394	
13,850.00	8,289.00	12,849.27	7,500.00	54.02	53.14	2.42	-5,445.60	2,259.74	789.81	694.90	94.91	8.322	
13,900.00	8,289.00	12,898.32	7,500.00	54.01	53.26	3.64	-5,445.52	2,308.79	790.87	695.02	95.85	8.251	
13,950.00	8,289.00	12,948.16	7,500.00	53.99	53.37	4.91	-5,442.46	2,358.52	792.47	695.63	96.84	8.184	
14,000.00	8,289.00	12,998.87	7,500.00	53.94	53.46	6.21	-5,436.26	2,408.85	794.67	696.81	97.86	8.120	
14,050.00	8,289.00	13,050.59	7,500.00	53.88	53.53	7.54	-5,426.77	2,459.68	797.53	698.62	98.91	8.063	
14,100.00	8,289.00	13,103.46	7,500.00	53.80	53.58	8.89	-5,413.79	2,510.92	801.11	701.12	99.99	8.012	
14,150.00	8,289.00	13,157.63	7,500.00	53.70	53.62	10.26	-5,397.11	2,562.45	805.46	704.37	101.08	7.968	
14,200.00	8,289.00	13,213.30	7,500.00	53.59	53.63	11.65	-5,376.49	2,614.15	810.60	708.40	102.20	7.932	
14,250.00	8,289.00	13,270.68	7,500.00	53.47	53.63	13.04	-5,351.62	2,665.86	816.56	713.24	103.33	7.903	
14,300.00	8,289.00	13,330.04	7,500.00	53.33	53.60	14.45	-5,322.19	2,717.39	823.35	718.88	104.47	7.881	
14,350.00	8,289.00	13,391.68	7,500.00	53.20	53.55	15.86	-5,287.78	2,768.51	830.96	725.31	105.65	7.866	
14,400.00	8,289.00	13,455.95	7,500.00	53.05	53.47	17.29	-5,247.95	2,818.92	839.35	732.50	106.85	7.855	
14,450.00	8,289.00	13,523.26	7,500.00	52.91	53.36	18.74	-5,202.15	2,868.23	848.47	740.37	108.10	7.849	
14,500.00	8,289.00	13,594.11	7,500.00	52.76	53.23	20.20	-5,149.77	2,915.90	858.24	748.83	109.41	7.845	
14,530.51	8,289.00	13,639.30	7,500.00	52.67	53.14	21.10	-5,114.30	2,943.90	864.47	754.24	110.23	7.842	
14,600.00	8,289.00	13,750.99	7,500.00	52.46	52.88	23.94	-5,020.52	3,004.40	878.13	765.89	112.24	7.824	
14,700.00	8,289.00	13,935.34	7,500.00	52.18	52.38	27.21	-4,850.61	3,074.91	893.51	778.16	115.35	7.746	
14,762.01	8,289.00	14,042.23	7,500.00	52.01	52.07	28.29	-4,746.26	3,097.69	899.21	782.34	116.88	7.694	
14,800.00	8,289.00	14,125.15	7,500.00	51.90	51.83	28.80	-4,663.85	3,106.46	900.91	782.96	117.95	7.638	
14,900.00	8,289.00	14,243.02	7,500.00	51.64	51.51	29.14	-4,546.12	3,112.11	903.45	784.16	119.28	7.574	
15,000.00	8,289.00	14,357.00	7,500.00	51.38	51.20	29.22	-4,432.14	3,113.05	904.04	783.49	120.55	7.499	
15,100.00	8,289.00	14,457.00	7,500.00	51.14	50.95	29.22	-4,332.14	3,112.60	904.04	782.35	121.69	7.429	
15,200.00	8,289.00	14,557.00	7,500.00	50.90	50.70	29.22	-4,232.14	3,112.16	904.04	781.20	122.84	7.359	
15,300.00	8,289.00	14,657.00	7,500.00	50.66	50.46	29.22	-4,132.15	3,111.72	904.04	780.04	124.00	7.291	
15,400.00	8,289.00	14,757.00	7,500.00	50.44	50.22	29.22	-4,032.15	3,111.28	904.04	778.87	125.17	7.223	
15,500.00	8,289.00	14,857.00	7,500.00	50.23	50.00	29.22	-3,932.15	3,110.84	904.03	777.69	126.34	7.155	
15,600.00	8,289.00	14,957.00	7,500.00	50.02	49.78	29.22	-3,832.15	3,110.39	904.03	776.50	127.53	7.089	
15,700.00	8,289.00	15,057.00	7,500.00	49.82	49.57	29.22	-3,732.15	3,109.95	904.03	775.31	128.72	7.023	
15,800.00	8,289.00	15,157.00	7,500.00	49.64	49.37	29.22	-3,632.15	3,109.51	904.03	774.11	129.92	6.958	
15,900.00	8,289.00	15,257.00	7,500.00	49.46	49.17	29.22	-3,532.15	3,109.07	904.03	772.90	131.13	6.894	
16,000.00	8,289.00	15,357.00	7,500.00	49.29	48.99	29.22	-3,432.15	3,108.62	904.03	771.68	132.34	6.831	
16,100.00	8,289.00	15,457.00	7,500.00	49.13	48.81	29.22	-3,332.15	3,108.18	904.02	770.46	133.57	6.768	
16,200.00	8,289.00	15,557.00	7,500.00	48.98	48.64	29.22	-3,232.15	3,107.74	904.02	769.23	134.79	6.707	
16,300.00	8,289.00	15,657.00	7,500.00	48.84	48.49	29.22	-3,132.16	3,107.30	904.02	767.99	136.03	6.646	
16,400.00	8,289.00	15,757.00	7,500.00	48.71	48.33	29.22	-3,032.16	3,106.85	904.02	766.74	137.27	6.586	
16,500.00	8,289.00	15,857.00	7,500.00	48.59	48.19	29.22	-2,932.16	3,106.41	904.02	765.49	138.52	6.526	
16,600.00	8,289.00	15,957.00	7,500.00	48.48	48.06	29.22	-2,832.16	3,105.97	904.02	764.24	139.78	6.467	
16,700.00	8,289.00	16,057.00	7,500.00	48.38	47.94	29.22	-2,732.16	3,105.53	904.01	762.97	141.04	6.410	
16,800.00	8,289.00	16,157.00	7,500.00	48.29	47.82	29.22	-2,632.16	3,105.08	904.01	761.70	142.31	6.352	
16,900.00	8,289.00	16,257.00	7,500.00	48.21	47.72	29.22	-2,532.16	3,104.64	904.01	760.43	143.58	6.296	
17,000.00	8,289.00	16,357.00	7,500.00	48.15	47.63	29.22	-2,432.16	3,104.20	904.01	759.15	144.86	6.241	
17,100.00	8,289.00	16,457.00	7,500.00	48.09	47.54	29.22	-2,332.16	3,103.76	904.01	757.86	146.15	6.186	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: Minimum Separation (usft)	Separation Factor	Warning
17,200.00	8,289.00	16,557.00	7,500.00	48.05	47.47	29.22	-2,232.16	3,103.32	904.01	756.57	147.44	6.132	
17,300.00	8,289.00	16,657.00	7,500.00	48.01	47.41	29.22	-2,132.17	3,102.87	904.00	755.27	148.73	6.078	
17,400.00	8,289.00	16,757.00	7,500.00	47.99	47.36	29.22	-2,032.17	3,102.43	904.00	753.97	150.03	6.025	
17,500.00	8,289.00	16,857.00	7,500.00	47.99	47.32	29.22	-1,932.17	3,101.99	904.00	752.66	151.34	5.973	
17,600.00	8,289.00	16,957.00	7,500.00	47.99	47.30	29.22	-1,832.17	3,101.55	904.00	751.35	152.65	5.922	
17,700.00	8,289.00	17,057.00	7,500.00	48.01	47.28	29.22	-1,732.17	3,101.10	904.00	750.04	153.96	5.872	
17,800.00	8,289.00	17,157.00	7,500.00	48.04	47.28	29.22	-1,632.17	3,100.66	904.00	748.71	155.28	5.822	
17,900.00	8,289.00	17,257.00	7,500.00	48.08	47.29	29.22	-1,532.17	3,100.22	903.99	747.39	156.60	5.772	
18,000.00	8,289.00	17,357.00	7,500.00	48.14	47.31	29.22	-1,432.17	3,099.78	903.99	746.06	157.93	5.724	
18,100.00	8,289.00	17,457.00	7,500.00	48.21	47.35	29.21	-1,332.17	3,099.33	903.99	744.73	159.27	5.676	
18,200.00	8,289.00	17,557.00	7,500.00	48.29	47.40	29.21	-1,232.17	3,098.89	903.99	743.39	160.60	5.629	
18,300.00	8,289.00	17,657.00	7,500.00	48.39	47.47	29.21	-1,132.18	3,098.45	903.99	742.04	161.94	5.582	
18,400.00	8,289.00	17,757.00	7,500.00	48.50	47.55	29.21	-1,032.18	3,098.01	903.99	740.70	163.29	5.536	
18,500.00	8,289.00	17,857.00	7,500.00	48.63	47.64	29.21	-932.18	3,097.56	903.98	739.35	164.64	5.491	
18,600.00	8,289.00	17,957.00	7,500.00	48.76	47.75	29.21	-832.18	3,097.12	903.98	737.99	165.99	5.446	
18,700.00	8,289.00	18,057.00	7,500.00	48.92	47.88	29.21	-732.18	3,096.68	903.98	736.64	167.34	5.402	
18,800.00	8,289.00	18,157.00	7,500.00	49.08	48.02	29.21	-632.18	3,096.24	903.98	735.28	168.70	5.358	
18,900.00	8,289.00	18,257.00	7,500.00	49.26	48.18	29.21	-532.18	3,095.80	903.98	733.91	170.07	5.315	
19,000.00	8,289.00	18,357.00	7,500.00	49.46	48.35	29.21	-432.18	3,095.35	903.98	732.54	171.43	5.273	
19,100.00	8,289.00	18,457.00	7,500.00	50.02	48.53	29.21	-332.18	3,094.91	903.97	731.51	172.46	5.242	
19,101.33	8,289.00	18,458.34	7,500.00	50.05	48.53	29.21	-330.85	3,094.90	903.97	731.50	172.47	5.241	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	-90.65	-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	
500.00	500.00	501.00	501.00	1.71	1.71	-90.65	-0.68	-59.98	59.98	56.56	3.42	17.522	
600.00	600.00	601.00	601.00	2.07	2.07	-90.65	-0.68	-59.98	59.98	55.84	4.14	14.488	
700.00	700.00	701.00	701.00	2.43	2.43	-90.65	-0.68	-59.98	59.98	55.13	4.86	12.349	
800.00	800.00	801.00	801.00	2.79	2.79	-90.65	-0.68	-59.98	59.98	54.41	5.57	10.761	
900.00	900.00	901.00	901.00	3.14	3.15	-90.65	-0.68	-59.98	59.98	53.69	6.29	9.535	
1,000.00	1,000.00	1,001.00	1,001.00	3.50	3.51	-90.65	-0.68	-59.98	59.98	52.98	7.01	8.559	
1,100.00	1,100.00	1,101.00	1,101.00	3.86	3.86	-90.65	-0.68	-59.98	59.98	52.26	7.73	7.765	
1,200.00	1,200.00	1,201.00	1,201.00	4.22	4.22	-90.65	-0.68	-59.98	59.98	51.54	8.44	7.105	
1,300.00	1,300.00	1,301.00	1,301.00	4.58	4.58	-90.65	-0.68	-59.98	59.98	50.82	9.16	6.549	
1,400.00	1,400.00	1,401.00	1,401.00	4.94	4.94	-90.65	-0.68	-59.98	59.98	50.11	9.88	6.074	
1,500.00	1,500.00	1,501.00	1,501.00	5.29	5.30	-90.65	-0.68	-59.98	59.98	49.39	10.59	5.663	
1,600.00	1,600.00	1,601.00	1,601.00	5.65	5.66	-90.65	-0.68	-59.98	59.98	48.67	11.31	5.304	
1,700.00	1,700.00	1,701.00	1,701.00	6.01	6.02	-90.65	-0.68	-59.98	59.98	47.96	12.03	4.988	
1,800.00	1,800.00	1,801.00	1,801.00	6.37	6.37	-90.65	-0.68	-59.98	59.98	47.24	12.74	4.707	CC, ES
1,900.00	1,899.98	1,900.98	1,900.98	6.72	6.73	165.05	-0.68	-59.98	61.67	48.22	13.45	4.585	
2,000.00	1,999.84	2,000.86	2,000.86	7.06	7.09	166.18	-0.68	-59.98	66.74	52.59	14.15	4.718	
2,100.00	2,099.45	2,103.03	2,103.01	7.40	7.44	167.43	-1.21	-58.20	73.48	58.65	14.83	4.954	
2,200.00	2,198.70	2,205.47	2,205.29	7.74	7.79	168.37	-2.78	-52.92	80.20	64.70	15.49	5.176	
2,300.00	2,297.47	2,308.16	2,307.56	8.09	8.14	169.08	-5.39	-44.11	86.86	70.72	16.14	5.380	
2,400.00	2,395.62	2,411.10	2,409.69	8.44	8.49	169.60	-9.06	-31.75	93.47	76.69	16.78	5.569	
2,491.84	2,485.13	2,505.86	2,503.24	8.76	8.82	169.96	-13.36	-17.28	99.47	82.11	17.36	5.730	
2,500.00	2,493.06	2,514.29	2,511.54	8.79	8.85	169.98	-13.78	-15.84	99.99	82.58	17.41	5.743	
2,600.00	2,590.16	2,617.82	2,613.04	9.14	9.21	170.07	-19.57	3.64	104.43	86.41	18.02	5.794	
2,700.00	2,687.25	2,719.89	2,712.41	9.50	9.57	169.79	-26.20	25.96	105.67	87.00	18.67	5.659	
2,800.00	2,784.35	2,819.88	2,809.64	9.86	9.92	169.45	-32.85	48.36	106.37	86.99	19.38	5.488	
2,900.00	2,881.45	2,919.88	2,906.87	10.23	10.28	169.11	-39.50	70.77	107.07	86.97	20.10	5.327	
3,000.00	2,978.55	3,019.87	3,004.09	10.60	10.64	168.79	-46.15	93.17	107.77	86.95	20.82	5.176	
3,100.00	3,075.65	3,119.87	3,101.32	10.96	11.00	168.46	-52.80	115.57	108.48	86.93	21.55	5.035	
3,200.00	3,172.74	3,219.86	3,198.55	11.34	11.37	168.14	-59.46	137.98	109.18	86.91	22.28	4.901	
3,300.00	3,269.84	3,319.86	3,295.77	11.71	11.73	167.82	-66.11	160.38	109.90	86.88	23.01	4.775	
3,400.00	3,366.94	3,419.86	3,393.00	12.08	12.10	167.51	-72.76	182.79	110.61	86.86	23.75	4.656	
3,500.00	3,464.04	3,519.85	3,490.22	12.46	12.47	167.20	-79.41	205.19	111.33	86.83	24.50	4.544	
3,600.00	3,561.14	3,619.85	3,587.45	12.83	12.84	166.90	-86.06	227.60	112.05	86.81	25.25	4.439	
3,700.00	3,658.24	3,719.84	3,684.68	13.21	13.21	166.60	-92.72	250.00	112.78	86.78	26.00	4.338	
3,800.00	3,755.33	3,819.84	3,781.90	13.59	13.59	166.30	-99.37	272.41	113.51	86.76	26.75	4.244	
3,900.00	3,852.43	3,919.83	3,879.13	13.97	13.96	166.01	-106.02	294.81	114.24	86.73	27.50	4.154	
4,000.00	3,949.53	4,019.83	3,976.35	14.35	14.34	165.72	-112.67	317.21	114.97	86.71	28.26	4.068	
4,100.00	4,046.63	4,119.83	4,073.58	14.73	14.72	165.44	-119.32	339.62	115.71	86.69	29.02	3.987	
4,200.00	4,143.73	4,219.82	4,170.81	15.11	15.09	165.15	-125.98	362.02	116.45	86.67	29.78	3.910	
4,300.00	4,240.82	4,319.82	4,268.03	15.50	15.47	164.88	-132.63	384.43	117.19	86.65	30.55	3.836	
4,400.00	4,337.92	4,419.81	4,365.26	15.88	15.85	164.60	-139.28	406.83	117.94	86.62	31.31	3.766	
4,500.00	4,435.02	4,519.81	4,462.49	16.27	16.23	164.33	-145.93	429.24	118.69	86.61	32.08	3.700	
4,600.00	4,532.12	4,619.80	4,559.71	16.65	16.62	164.06	-152.58	451.64	119.44	86.59	32.85	3.636	
4,700.00	4,629.22	4,719.80	4,656.94	17.04	17.00	163.80	-159.24	474.04	120.19	86.57	33.62	3.575	
4,800.00	4,726.31	4,819.79	4,754.16	17.42	17.38	163.54	-165.89	496.45	120.95	86.55	34.39	3.517	
4,900.00	4,823.41	4,919.79	4,851.39	17.81	17.76	163.28	-172.54	518.85	121.71	86.54	35.17	3.461	
5,000.00	4,920.51	5,019.79	4,948.62	18.20	18.15	163.02	-179.19	541.26	122.47	86.53	35.94	3.408	

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 3H
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 3H	**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
5,100.00	5,017.61	5,119.78	5,045.84	18.58	18.53	162.77	-185.84	563.66	123.23	86.52	36.71	3.356	
5,200.00	5,114.71	5,219.78	5,143.07	18.97	18.91	162.52	-192.50	586.07	124.00	86.50	37.49	3.307	
5,300.00	5,211.80	5,319.77	5,240.29	19.36	19.30	162.28	-199.15	608.47	124.76	86.50	38.27	3.260	
5,400.00	5,308.90	5,419.77	5,337.52	19.75	19.68	162.04	-205.80	630.88	125.53	86.49	39.05	3.215	
5,500.00	5,406.00	5,519.76	5,434.75	20.14	20.07	161.80	-212.45	653.28	126.31	86.48	39.82	3.172	
5,600.00	5,503.10	5,619.76	5,531.97	20.53	20.46	161.56	-219.10	675.68	127.08	86.48	40.60	3.130	
5,700.00	5,600.20	5,719.76	5,629.20	20.91	20.84	161.33	-225.76	698.09	127.86	86.47	41.39	3.089	
5,800.00	5,697.30	5,819.75	5,726.43	21.30	21.23	161.10	-232.41	720.49	128.64	86.47	42.17	3.051	
5,900.00	5,794.39	5,919.75	5,823.65	21.69	21.62	160.87	-239.06	742.90	129.42	86.47	42.95	3.013	
6,000.00	5,891.49	6,019.74	5,920.88	22.09	22.00	160.64	-245.71	765.30	130.20	86.47	43.73	2.977	
6,100.00	5,988.59	6,119.74	6,018.10	22.48	22.39	160.42	-252.36	787.71	130.98	86.47	44.51	2.943	
6,200.00	6,085.69	6,219.73	6,115.33	22.87	22.78	160.20	-259.02	810.11	131.77	86.47	45.30	2.909	
6,300.00	6,182.79	6,319.73	6,212.56	23.26	23.17	159.98	-265.67	832.51	132.56	86.48	46.08	2.877	
6,400.00	6,279.88	6,419.72	6,309.78	23.65	23.56	159.77	-272.32	854.92	133.35	86.48	46.87	2.845	
6,500.00	6,376.98	6,519.72	6,407.01	24.04	23.95	159.56	-278.97	877.32	134.14	86.49	47.65	2.815	
6,600.00	6,474.08	6,619.72	6,504.23	24.43	24.33	159.35	-285.62	899.73	134.94	86.50	48.44	2.786	
6,700.00	6,571.18	6,719.71	6,601.46	24.82	24.72	159.14	-292.28	922.13	135.73	86.51	49.23	2.757	
6,800.00	6,668.28	6,819.71	6,698.69	25.22	25.11	158.93	-298.93	944.54	136.53	86.52	50.01	2.730	
6,900.00	6,765.37	6,919.70	6,795.91	25.61	25.50	158.73	-305.58	966.94	137.33	86.53	50.80	2.703	
7,000.00	6,862.47	7,019.70	6,893.14	26.00	25.89	158.53	-312.23	989.35	138.13	86.54	51.59	2.678	
7,100.00	6,959.57	7,119.69	6,990.36	26.39	26.28	158.33	-318.88	1,011.75	138.93	86.56	52.38	2.653	
7,200.00	7,056.67	7,219.69	7,087.59	26.78	26.67	158.14	-325.54	1,034.15	139.74	86.57	53.16	2.628	
7,300.00	7,153.77	7,317.28	7,182.59	27.18	27.05	158.03	-331.89	1,055.55	141.02	87.05	53.98	2.613	SF
7,400.00	7,250.86	7,412.82	7,276.21	27.57	27.42	158.39	-337.31	1,073.80	145.07	90.30	54.77	2.649	
7,500.00	7,347.96	7,508.00	7,370.06	27.96	27.77	159.20	-341.82	1,088.99	152.18	96.68	55.50	2.742	
7,600.00	7,445.06	7,602.61	7,463.82	28.36	28.12	160.35	-345.42	1,101.11	162.40	106.22	56.18	2.891	
7,700.00	7,542.16	7,696.45	7,557.17	28.75	28.46	161.71	-348.12	1,110.21	175.74	118.95	56.79	3.094	
7,800.00	7,639.26	7,789.32	7,649.82	29.14	28.79	163.17	-349.93	1,116.31	192.23	134.88	57.35	3.352	
7,900.00	7,736.36	7,881.06	7,741.50	29.54	29.11	164.64	-350.88	1,119.52	211.86	154.02	57.85	3.663	
7,902.86	7,739.13	7,883.67	7,744.10	29.55	29.11	164.68	-350.89	1,119.57	212.47	154.61	57.86	3.672	
7,950.00	7,784.76	7,926.33	7,786.76	29.73	29.26	147.68	-351.04	1,120.06	222.73	164.66	58.06	3.836	
8,000.00	7,832.63	7,973.20	7,833.63	29.93	29.41	135.14	-351.05	1,120.09	234.05	175.71	58.33	4.012	
8,050.00	7,879.58	8,020.15	7,880.58	30.12	29.57	127.50	-351.05	1,120.09	245.67	187.04	58.63	4.190	
8,100.00	7,925.27	8,065.84	7,926.27	30.31	29.72	123.21	-351.05	1,120.09	258.03	199.12	58.91	4.380	
8,150.00	7,969.35	8,109.92	7,970.35	30.49	29.86	121.08	-351.05	1,120.09	271.67	212.49	59.18	4.590	
8,200.00	8,011.47	8,152.04	8,012.47	30.67	30.00	120.24	-351.05	1,120.09	287.13	227.68	59.45	4.830	
8,250.00	8,051.32	8,191.89	8,052.32	30.83	30.13	120.09	-351.05	1,120.09	304.90	245.19	59.71	5.107	
8,300.00	8,088.60	8,229.17	8,089.60	30.99	30.25	120.17	-351.05	1,120.09	325.36	265.40	59.96	5.426	
8,350.00	8,123.02	8,263.59	8,124.02	31.14	30.37	120.18	-351.05	1,120.09	348.77	288.57	60.20	5.793	
8,400.00	8,154.32	8,294.89	8,155.32	31.28	30.47	119.87	-351.05	1,120.09	375.24	314.80	60.43	6.209	
8,450.00	8,182.27	8,322.84	8,183.27	31.42	30.56	119.02	-351.05	1,120.09	404.73	344.08	60.65	6.673	
8,500.00	8,206.64	8,347.21	8,207.64	31.54	30.64	117.47	-351.05	1,120.09	437.10	376.26	60.84	7.185	
8,550.00	8,227.26	8,367.83	8,228.26	31.66	30.71	115.04	-351.05	1,120.09	472.10	411.10	61.00	7.739	
8,600.00	8,243.96	8,384.53	8,244.96	31.78	30.77	111.59	-351.05	1,120.09	509.42	448.29	61.13	8.333	
8,621.67	8,249.95	8,390.52	8,250.95	31.83	30.79	109.74	-351.05	1,120.09	526.22	465.04	61.18	8.601	
8,700.00	8,267.63	8,408.20	8,268.63	32.00	30.85	107.44	-351.05	1,120.09	589.79	528.47	61.32	9.618	
8,800.00	8,282.55	8,423.12	8,283.55	32.23	30.89	101.71	-351.05	1,120.09	676.07	614.63	61.45	11.003	
8,900.00	8,288.79	8,429.36	8,289.79	32.46	30.92	92.47	-351.05	1,120.09	766.25	704.74	61.51	12.458	
8,921.67	8,289.00	8,429.57	8,290.00	32.51	30.92	90.00	-351.05	1,120.09	786.14	724.63	61.51	12.780	
9,000.00	8,289.00	8,429.57	8,290.00	32.69	30.92	90.00	-351.05	1,120.09	858.76	797.24	61.53	13.957	
9,100.00	8,289.00	8,429.57	8,290.00	32.94	30.92	90.00	-351.05	1,120.09	952.79	891.25	61.55	15.480	
9,200.00	8,289.00	8,429.57	8,290.00	33.20	30.92	90.00	-351.05	1,120.09	1,047.93	986.36	61.57	17.021	

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 3H
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 3H	**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
9,300.00	8,289.00	8,429.57	8,290.00	33.48	30.92	90.00	-351.05	1,120.09	1,143.89	1,082.31	61.59	18.573	
9,400.00	8,289.00	8,429.57	8,290.00	33.77	30.92	90.00	-351.05	1,120.09	1,240.50	1,178.89	61.61	20.135	
9,500.00	8,289.00	8,429.57	8,290.00	34.07	30.92	90.00	-351.05	1,120.09	1,337.60	1,275.97	61.63	21.704	
9,600.00	8,289.00	8,429.57	8,290.00	34.38	30.92	90.00	-351.05	1,120.09	1,435.10	1,373.45	61.65	23.278	
9,700.00	8,289.00	8,429.57	8,290.00	34.70	30.92	90.00	-351.05	1,120.09	1,532.92	1,471.25	61.67	24.856	
9,800.00	8,289.00	11,365.52	9,888.00	35.04	38.97	169.09	-1,952.71	1,127.10	1,627.40	1,578.11	49.29	33.018	
9,900.00	8,289.00	11,465.52	9,888.00	35.39	39.27	169.09	-2,052.71	1,127.54	1,627.40	1,577.08	50.32	32.343	
10,000.00	8,289.00	11,565.52	9,888.00	35.75	39.59	169.09	-2,152.71	1,127.98	1,627.40	1,576.03	51.37	31.678	
10,100.00	8,289.00	11,665.52	9,888.00	36.12	39.92	169.09	-2,252.71	1,128.42	1,627.40	1,574.95	52.45	31.026	
10,200.00	8,289.00	11,765.52	9,888.00	36.51	40.25	169.09	-2,352.71	1,128.86	1,627.40	1,573.84	53.56	30.386	
10,300.00	8,289.00	11,865.52	9,888.00	36.90	40.60	169.09	-2,452.71	1,129.30	1,627.40	1,572.72	54.69	29.759	
10,400.00	8,289.00	11,965.52	9,888.00	37.31	40.96	169.09	-2,552.71	1,129.73	1,627.40	1,571.57	55.83	29.147	
10,500.00	8,289.00	12,065.52	9,888.00	37.72	41.33	169.09	-2,652.71	1,130.17	1,627.40	1,570.40	57.00	28.549	
10,600.00	8,289.00	12,165.52	9,888.00	38.15	41.71	169.09	-2,752.71	1,130.61	1,627.40	1,569.21	58.19	27.967	
10,700.00	8,289.00	12,265.52	9,888.00	38.58	42.10	169.09	-2,852.71	1,131.05	1,627.41	1,568.01	59.39	27.400	
10,800.00	8,289.00	12,365.52	9,888.00	39.03	42.50	169.09	-2,952.70	1,131.49	1,627.41	1,566.79	60.62	26.848	
10,900.00	8,289.00	12,465.52	9,888.00	39.48	42.91	169.09	-3,052.70	1,131.93	1,627.41	1,565.55	61.85	26.311	
11,000.00	8,289.00	12,565.52	9,888.00	39.94	43.33	169.09	-3,152.70	1,132.37	1,627.41	1,564.30	63.10	25.789	
11,100.00	8,289.00	12,665.52	9,888.00	40.41	43.76	169.09	-3,252.70	1,132.80	1,627.41	1,563.04	64.37	25.282	
11,200.00	8,289.00	12,765.52	9,888.00	40.89	44.20	169.09	-3,352.70	1,133.24	1,627.41	1,561.76	65.65	24.790	
11,300.00	8,289.00	12,865.52	9,888.00	41.38	44.64	169.09	-3,452.70	1,133.68	1,627.41	1,560.47	66.94	24.312	
11,400.00	8,289.00	12,965.52	9,888.00	41.88	45.10	169.09	-3,552.70	1,134.12	1,627.41	1,559.17	68.24	23.848	
11,500.00	8,289.00	13,065.52	9,888.00	42.38	45.56	169.09	-3,652.70	1,134.56	1,627.41	1,557.86	69.55	23.398	
11,600.00	8,289.00	13,165.52	9,888.00	42.89	46.03	169.09	-3,752.70	1,135.00	1,627.41	1,556.53	70.88	22.961	
11,700.00	8,289.00	13,265.52	9,888.00	43.41	46.51	169.09	-3,852.70	1,135.44	1,627.41	1,555.20	72.21	22.537	
11,800.00	8,289.00	13,365.52	9,888.00	43.93	46.99	169.09	-3,952.70	1,135.88	1,627.41	1,553.86	73.55	22.125	
11,900.00	8,289.00	13,465.52	9,888.00	44.46	47.48	169.09	-4,052.69	1,136.31	1,627.41	1,552.51	74.91	21.726	
12,000.00	8,289.00	13,565.52	9,888.00	45.00	47.98	169.09	-4,152.69	1,136.75	1,627.42	1,551.15	76.26	21.339	
12,100.00	8,289.00	13,665.52	9,888.00	45.55	48.49	169.09	-4,252.69	1,137.19	1,627.42	1,549.78	77.63	20.963	
12,200.00	8,289.00	13,765.52	9,888.00	46.10	49.00	169.09	-4,352.69	1,137.63	1,627.42	1,548.41	79.01	20.598	
12,300.00	8,289.00	13,865.52	9,888.00	46.65	49.52	169.09	-4,452.69	1,138.07	1,627.42	1,547.03	80.39	20.244	
12,400.00	8,289.00	13,965.52	9,888.00	47.21	50.04	169.09	-4,552.69	1,138.51	1,627.42	1,545.64	81.78	19.900	
12,500.00	8,289.00	14,065.52	9,888.00	47.78	50.58	169.09	-4,652.69	1,138.95	1,627.42	1,544.25	83.17	19.567	
12,600.00	8,289.00	14,165.52	9,888.00	48.35	51.11	169.09	-4,752.69	1,139.38	1,627.42	1,542.85	84.57	19.243	
12,688.51	8,289.00	14,294.29	9,888.00	48.86	51.82	169.29	-4,881.19	1,145.63	1,626.85	1,540.91	85.93	18.931	
12,700.00	8,289.00	14,315.50	9,888.00	48.93	51.94	169.36	-4,902.14	1,148.84	1,626.55	1,540.46	86.09	18.893	
12,750.00	8,289.00	14,405.96	9,888.00	49.23	52.46	169.75	-4,990.01	1,170.07	1,624.97	1,538.28	86.69	18.745	
12,800.00	8,289.00	14,493.05	9,888.00	49.53	52.97	170.24	-5,071.07	1,201.72	1,622.97	1,535.82	87.15	18.622	
12,850.00	8,289.00	14,576.29	9,888.00	49.84	53.45	170.81	-5,144.00	1,241.73	1,620.67	1,533.14	87.53	18.516	
12,900.00	8,289.00	14,655.47	9,888.00	50.15	53.90	171.44	-5,208.16	1,288.06	1,618.16	1,530.30	87.85	18.419	
12,950.00	8,289.00	14,730.59	9,888.00	50.47	54.30	172.10	-5,263.46	1,338.84	1,615.55	1,527.38	88.17	18.323	
13,000.00	8,289.00	14,801.79	9,888.00	50.79	54.67	172.78	-5,310.20	1,392.50	1,612.93	1,524.42	88.51	18.224	
13,050.00	8,289.00	14,869.30	9,888.00	51.10	54.99	173.48	-5,348.92	1,447.77	1,610.39	1,521.50	88.89	18.118	
13,100.00	8,289.00	14,933.42	9,888.00	51.40	55.27	174.18	-5,380.26	1,503.68	1,607.99	1,518.67	89.32	18.003	
13,150.00	8,289.00	14,994.46	9,888.00	51.70	55.52	174.89	-5,404.90	1,559.50	1,605.79	1,515.98	89.81	17.880	
13,200.00	8,289.00	15,052.72	9,888.00	51.99	55.73	175.59	-5,423.49	1,614.70	1,603.83	1,513.46	90.36	17.749	
13,250.00	8,289.00	15,108.51	9,888.00	52.26	55.90	176.29	-5,436.64	1,668.89	1,602.13	1,511.16	90.97	17.611	
13,300.00	8,289.00	15,162.09	9,888.00	52.52	56.05	176.98	-5,444.91	1,721.81	1,600.72	1,509.09	91.63	17.469	
13,350.00	8,289.00	15,213.70	9,888.00	52.77	56.17	177.67	-5,448.76	1,773.27	1,599.61	1,507.27	92.34	17.323	
13,400.00	8,289.00	15,263.58	9,888.00	53.00	56.26	178.36	-5,448.64	1,823.14	1,598.80	1,505.71	93.09	17.175	
13,450.00	8,289.00	15,311.92	9,888.00	53.20	56.33	179.04	-5,444.92	1,871.32	1,598.27	1,504.40	93.87	17.027	
13,500.00	8,289.00	15,358.88	9,888.00	53.39	56.38	179.70	-5,437.92	1,917.75	1,598.03	1,503.35	94.68	16.879	

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 3H
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 3H	**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
13,522.36	8,289.00	15,379.49	9,888.00	53.46	56.39	-180.00	-5,433.80	1,937.94	1,598.00	1,502.96	95.04	16.813	
13,550.00	8,289.00	15,404.64	9,888.00	53.55	56.41	-179.64	-5,427.92	1,962.40	1,598.04	1,502.54	95.50	16.733	
13,600.00	8,289.00	15,450.00	9,888.00	53.69	56.43	-178.98	-5,414.98	2,005.86	1,598.29	1,501.95	96.34	16.590	
13,650.00	8,289.00	15,493.06	9,888.00	53.80	56.42	-178.36	-5,399.94	2,046.19	1,598.75	1,501.55	97.20	16.448	
13,700.00	8,289.00	15,535.94	9,888.00	53.89	56.41	-177.75	-5,382.37	2,085.30	1,599.40	1,501.34	98.06	16.310	
13,750.00	8,289.00	15,578.07	9,888.00	53.96	56.38	-177.16	-5,362.66	2,122.53	1,600.21	1,501.28	98.93	16.175	
13,800.00	8,289.00	15,619.54	9,888.00	54.00	56.34	-176.59	-5,340.97	2,157.87	1,601.15	1,501.35	99.80	16.044	
13,850.00	8,289.00	15,660.42	9,888.00	54.02	56.29	-176.05	-5,317.45	2,191.29	1,602.18	1,501.52	100.66	15.916	
13,900.00	8,289.00	15,700.00	9,888.00	54.01	56.23	-175.54	-5,292.73	2,222.20	1,603.28	1,501.75	101.53	15.792	
13,950.00	8,289.00	15,740.66	9,888.00	53.99	56.16	-175.05	-5,265.45	2,252.35	1,604.41	1,502.03	102.38	15.671	
14,000.00	8,289.00	15,780.15	9,888.00	53.94	56.09	-174.59	-5,237.23	2,279.96	1,605.55	1,502.32	103.23	15.553	
14,050.00	8,289.00	15,819.28	9,888.00	53.88	56.00	-174.18	-5,207.67	2,305.59	1,606.67	1,502.61	104.07	15.439	
14,100.00	8,289.00	15,858.11	9,888.00	53.80	55.92	-173.80	-5,176.89	2,329.24	1,607.75	1,502.86	104.89	15.328	
14,150.00	8,289.00	15,900.00	9,888.00	53.70	55.82	-173.44	-5,142.17	2,352.68	1,608.76	1,503.05	105.70	15.219	
14,200.00	8,289.00	15,935.00	9,888.00	53.59	55.73	-173.17	-5,112.07	2,370.52	1,609.66	1,503.17	106.49	15.115	
14,250.00	8,289.00	15,973.14	9,888.00	53.47	55.63	-172.92	-5,078.24	2,388.12	1,610.47	1,503.20	107.27	15.013	
14,300.00	8,289.00	16,011.13	9,888.00	53.33	55.53	-172.71	-5,043.58	2,403.67	1,611.14	1,503.12	108.02	14.915	
14,350.00	8,289.00	16,050.00	9,888.00	53.20	55.42	-172.55	-5,007.25	2,417.47	1,611.67	1,502.91	108.76	14.819	
14,400.00	8,289.00	16,086.78	9,888.00	53.05	55.32	-172.44	-4,972.18	2,428.53	1,612.05	1,502.59	109.46	14.727	
14,450.00	8,289.00	16,124.50	9,888.00	52.91	55.22	-172.37	-4,935.62	2,437.82	1,612.27	1,502.12	110.15	14.638	
14,500.00	8,289.00	16,162.20	9,888.00	52.76	55.11	-172.36	-4,898.62	2,445.00	1,612.33	1,501.52	110.80	14.551	
14,530.51	8,289.00	16,185.20	9,888.00	52.67	55.05	-172.37	-4,875.86	2,448.33	1,612.28	1,501.09	111.19	14.500	
14,559.52	8,289.00	16,207.08	9,888.00	52.58	54.98	-172.38	-4,854.11	2,450.76	1,612.24	1,500.68	111.56	14.452	
14,600.00	8,289.00	16,240.37	9,888.00	52.46	54.89	-172.36	-4,820.91	2,453.18	1,612.30	1,500.20	112.10	14.383	
14,700.00	8,289.00	16,333.40	9,888.00	52.18	54.64	-172.34	-4,727.98	2,457.33	1,612.38	1,498.87	113.51	14.205	
14,762.01	8,289.00	16,391.09	9,888.00	52.01	54.49	-172.36	-4,670.31	2,458.39	1,612.32	1,497.95	114.37	14.098	
14,800.00	8,289.00	16,427.24	9,888.00	51.90	54.39	-172.37	-4,634.15	2,458.46	1,612.28	1,497.38	114.90	14.032	
14,834.13	8,289.00	16,460.50	9,888.00	51.81	54.31	-172.37	-4,600.90	2,458.32	1,612.28	1,496.89	115.40	13.972	
14,900.00	8,289.00	16,526.37	9,888.00	51.64	54.14	-172.37	-4,535.02	2,458.03	1,612.28	1,495.92	116.36	13.856	
15,000.00	8,289.00	16,626.37	9,888.00	51.38	53.90	-172.37	-4,435.03	2,457.59	1,612.28	1,494.45	117.83	13.683	
15,100.00	8,289.00	16,726.37	9,888.00	51.14	53.66	-172.37	-4,335.03	2,457.16	1,612.28	1,492.98	119.30	13.514	
15,200.00	8,289.00	16,826.37	9,888.00	50.90	53.44	-172.37	-4,235.03	2,456.73	1,612.28	1,491.51	120.77	13.350	
15,300.00	8,289.00	16,926.37	9,888.00	50.66	53.22	-172.37	-4,135.03	2,456.29	1,612.28	1,490.03	122.25	13.188	
15,400.00	8,289.00	17,026.37	9,888.00	50.44	53.00	-172.37	-4,035.03	2,455.86	1,612.28	1,488.55	123.73	13.031	
15,500.00	8,289.00	17,126.37	9,888.00	50.23	52.80	-172.37	-3,935.03	2,455.42	1,612.28	1,487.07	125.21	12.877	
15,600.00	8,289.00	17,226.37	9,888.00	50.02	52.61	-172.37	-3,835.03	2,454.99	1,612.28	1,485.59	126.69	12.726	
15,700.00	8,289.00	17,326.37	9,888.00	49.82	52.42	-172.37	-3,735.03	2,454.55	1,612.28	1,484.10	128.17	12.579	
15,800.00	8,289.00	17,426.37	9,888.00	49.64	52.24	-172.37	-3,635.03	2,454.12	1,612.28	1,482.62	129.66	12.435	
15,900.00	8,289.00	17,526.37	9,888.00	49.46	52.08	-172.37	-3,535.03	2,453.68	1,612.28	1,481.13	131.15	12.293	
16,000.00	8,289.00	17,626.37	9,888.00	49.29	51.92	-172.37	-3,435.03	2,453.25	1,612.28	1,479.64	132.64	12.155	
16,100.00	8,289.00	17,726.37	9,888.00	49.13	51.77	-172.37	-3,335.04	2,452.81	1,612.28	1,478.14	134.13	12.020	
16,200.00	8,289.00	17,826.37	9,888.00	48.98	51.63	-172.37	-3,235.04	2,452.38	1,612.28	1,476.65	135.62	11.888	
16,300.00	8,289.00	17,926.37	9,888.00	48.84	51.49	-172.37	-3,135.04	2,451.94	1,612.27	1,475.15	137.12	11.758	
16,400.00	8,289.00	18,026.37	9,888.00	48.71	51.37	-172.37	-3,035.04	2,451.51	1,612.27	1,473.66	138.62	11.631	
16,500.00	8,289.00	18,126.37	9,888.00	48.59	51.26	-172.37	-2,935.04	2,451.07	1,612.27	1,472.16	140.12	11.507	
16,600.00	8,289.00	18,226.37	9,888.00	48.48	51.16	-172.37	-2,835.04	2,450.64	1,612.27	1,470.66	141.62	11.385	
16,700.00	8,289.00	18,326.37	9,888.00	48.38	51.07	-172.37	-2,735.04	2,450.20	1,612.27	1,469.15	143.12	11.265	
16,800.00	8,289.00	18,426.37	9,888.00	48.29	50.98	-172.37	-2,635.04	2,449.77	1,612.27	1,467.65	144.62	11.148	
16,900.00	8,289.00	18,526.37	9,888.00	48.21	50.91	-172.37	-2,535.04	2,449.33	1,612.27	1,466.15	146.13	11.033	
17,000.00	8,289.00	18,626.37	9,888.00	48.15	50.85	-172.37	-2,435.04	2,448.90	1,612.27	1,464.64	147.63	10.921	
17,100.00	8,289.00	18,726.37	9,888.00	48.09	50.80	-172.37	-2,335.05	2,448.46	1,612.27	1,463.13	149.14	10.811	
17,200.00	8,289.00	18,826.37	9,888.00	48.05	50.76	-172.37	-2,235.05	2,448.03	1,612.27	1,461.62	150.65	10.702	

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 3H
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 3H	**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
17,300.00	8,289.00	18,926.37	9,888.00	48.01	50.73	-172.37	-2,135.05	2,447.59	1,612.27	1,460.11	152.16	10.596	
17,400.00	8,289.00	19,026.37	9,888.00	47.99	50.72	-172.37	-2,035.05	2,447.16	1,612.27	1,458.60	153.67	10.492	
17,500.00	8,289.00	19,126.37	9,888.00	47.99	50.71	-172.37	-1,935.05	2,446.73	1,612.27	1,457.09	155.18	10.390	
17,600.00	8,289.00	19,226.37	9,888.00	47.99	50.72	-172.37	-1,835.05	2,446.29	1,612.27	1,455.58	156.69	10.289	
17,700.00	8,289.00	19,326.37	9,888.00	48.01	50.74	-172.37	-1,735.05	2,445.86	1,612.27	1,454.06	158.21	10.191	
17,800.00	8,289.00	19,426.37	9,888.00	48.04	50.77	-172.37	-1,635.05	2,445.42	1,612.27	1,452.54	159.72	10.094	
17,900.00	8,289.00	19,526.37	9,888.00	48.08	50.81	-172.37	-1,535.05	2,444.99	1,612.27	1,451.03	161.24	9.999	
18,000.00	8,289.00	19,626.37	9,888.00	48.14	50.87	-172.37	-1,435.05	2,444.55	1,612.27	1,449.51	162.76	9.906	
18,100.00	8,289.00	19,726.37	9,888.00	48.21	50.94	-172.37	-1,335.05	2,444.12	1,612.27	1,447.99	164.27	9.814	
18,200.00	8,289.00	19,826.37	9,888.00	48.29	51.02	-172.37	-1,235.06	2,443.68	1,612.26	1,446.47	165.79	9.725	
18,300.00	8,289.00	19,926.37	9,888.00	48.39	51.11	-172.37	-1,135.06	2,443.25	1,612.26	1,444.95	167.31	9.636	
18,400.00	8,289.00	20,026.37	9,888.00	48.50	51.22	-172.37	-1,035.06	2,442.81	1,612.26	1,443.43	168.83	9.549	
18,500.00	8,289.00	20,126.37	9,888.00	48.63	51.34	-172.37	-935.06	2,442.38	1,612.26	1,441.91	170.36	9.464	
18,600.00	8,289.00	8,429.57	8,290.00	48.76	30.92	-90.00	-351.05	1,120.09	1,610.01	1,534.11	75.90	21.213	
18,700.00	8,289.00	8,429.57	8,290.00	48.92	30.92	-90.00	-351.05	1,120.09	1,582.46	1,505.67	76.79	20.607	
18,800.00	8,289.00	8,429.57	8,290.00	49.08	30.92	-90.00	-351.05	1,120.09	1,560.84	1,483.19	77.65	20.102	
18,900.00	8,289.00	8,429.57	8,290.00	49.26	30.92	-90.00	-351.05	1,120.09	1,545.40	1,466.96	78.44	19.702	
19,000.00	8,289.00	8,429.57	8,290.00	49.46	30.92	-90.00	-351.05	1,120.09	1,536.32	1,457.17	79.15	19.411	
19,089.81	8,289.00	8,429.57	8,290.00	49.84	30.92	-90.00	-351.05	1,120.09	1,533.70	1,454.11	79.58	19.272	
19,100.00	8,289.00	8,429.57	8,290.00	50.02	30.92	-90.00	-351.05	1,120.09	1,533.73	1,454.11	79.62	19.264	
19,101.33	8,289.00	8,429.57	8,290.00	50.05	30.92	-90.00	-351.05	1,120.09	1,533.74	1,454.12	79.62	19.263	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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	-90.64	-0.45	-39.99	39.99				
100.00	100.00	101.00	101.00	0.28	0.28	-90.64	-0.45	-39.99	39.99	39.44	0.56	71.977	
200.00	200.00	201.00	201.00	0.63	0.64	-90.64	-0.45	-39.99	39.99	38.72	1.27	31.426	
300.00	300.00	301.00	301.00	0.99	1.00	-90.64	-0.45	-39.99	39.99	38.00	1.99	20.102	
400.00	400.00	401.00	401.00	1.35	1.36	-90.64	-0.45	-39.99	39.99	37.29	2.71	14.777	
416.33	416.33	417.33	417.33	1.41	1.41	-90.64	-0.45	-39.99	39.99	37.17	2.82	14.164	CC
500.00	500.00	501.00	501.00	1.71	1.71	-90.64	-0.45	-39.99	39.99	36.57	3.42	11.683	
500.05	500.05	501.05	501.05	1.71	1.71	-90.64	-0.45	-39.99	39.99	36.57	3.42	11.682	
600.00	600.00	600.94	600.92	2.07	2.06	-93.19	-2.23	-39.99	40.05	35.93	4.12	9.716	
700.00	700.00	700.64	700.48	2.43	2.39	-100.59	-7.47	-39.99	40.69	35.87	4.81	8.457	ES
800.00	800.00	800.13	799.62	2.79	2.73	-111.46	-15.72	-39.99	42.99	37.49	5.51	7.808	
900.00	900.00	899.75	898.87	3.14	3.07	-121.39	-24.40	-39.99	46.90	40.69	6.21	7.556	
1,000.00	1,000.00	999.37	998.11	3.50	3.42	-129.60	-33.09	-39.99	51.98	45.07	6.91	7.521	
1,100.00	1,100.00	1,100.58	1,098.93	3.86	3.77	-137.37	-41.60	-38.30	56.58	48.95	7.63	7.417	
1,200.00	1,200.00	1,201.68	1,199.59	4.22	4.13	-146.21	-49.45	-33.10	59.52	51.18	8.35	7.132	
1,300.00	1,300.00	1,302.39	1,299.67	4.58	4.49	-156.66	-56.62	-24.44	61.69	52.63	9.06	6.808	
1,400.00	1,400.00	1,402.47	1,398.81	4.94	4.85	-168.88	-63.09	-12.40	64.34	54.57	9.77	6.584	
1,500.00	1,500.00	1,501.69	1,496.66	5.29	5.20	177.59	-68.86	2.90	69.06	58.58	10.48	6.590	
1,600.00	1,600.00	1,599.82	1,592.91	5.65	5.56	163.92	-73.91	21.30	77.34	66.18	11.17	6.926	
1,700.00	1,700.00	1,696.65	1,687.26	6.01	5.91	151.42	-78.27	42.63	90.18	78.35	11.83	7.623	
1,800.00	1,800.00	1,792.88	1,780.40	6.37	6.26	140.97	-82.05	66.51	107.61	95.13	12.48	8.623	
1,900.00	1,899.98	1,890.00	1,874.32	6.72	6.61	28.79	-85.79	90.98	126.36	113.22	13.14	9.615	
2,000.00	1,999.84	1,987.89	1,968.97	7.06	6.97	23.84	-89.56	115.64	143.45	129.64	13.81	10.385	
2,100.00	2,099.45	2,086.42	2,064.25	7.40	7.34	20.39	-93.35	140.46	158.09	143.59	14.50	10.903	
2,200.00	2,198.70	2,185.49	2,160.04	7.74	7.72	17.90	-97.17	165.42	169.87	154.67	15.20	11.177	
2,300.00	2,297.47	2,284.95	2,256.23	8.09	8.09	16.06	-101.00	190.48	178.58	162.67	15.91	11.226	
2,400.00	2,395.62	2,384.70	2,352.69	8.44	8.47	14.68	-104.84	215.60	184.07	167.45	16.63	11.072	
2,491.84	2,485.13	2,476.46	2,441.41	8.76	8.83	13.72	-108.38	238.72	186.22	168.92	17.29	10.769	
2,500.00	2,493.06	2,484.62	2,449.30	8.79	8.86	13.64	-108.69	240.78	186.28	168.93	17.35	10.736	
2,600.00	2,590.16	2,584.57	2,545.95	9.14	9.24	12.74	-112.54	265.96	187.11	169.03	18.08	10.348	
2,700.00	2,687.25	2,684.53	2,642.61	9.50	9.63	11.84	-116.39	291.13	187.99	169.17	18.82	9.990	
2,800.00	2,784.35	2,784.48	2,739.26	9.86	10.02	10.96	-120.24	316.31	188.92	169.36	19.56	9.658	
2,900.00	2,881.45	2,884.43	2,835.91	10.23	10.41	10.08	-124.09	341.49	189.89	169.58	20.31	9.351	
3,000.00	2,978.55	2,984.39	2,932.57	10.60	10.80	9.21	-127.94	366.67	190.90	169.84	21.05	9.067	
3,100.00	3,075.65	3,084.34	3,029.22	10.96	11.19	8.35	-131.79	391.85	191.95	170.15	21.81	8.802	
3,200.00	3,172.74	3,184.29	3,125.87	11.34	11.58	7.50	-135.64	417.03	193.05	170.49	22.56	8.556	
3,300.00	3,269.84	3,284.25	3,222.53	11.71	11.97	6.66	-139.49	442.21	194.19	170.87	23.32	8.327	
3,400.00	3,366.94	3,384.20	3,319.18	12.08	12.36	5.83	-143.34	467.39	195.38	171.29	24.08	8.112	
3,500.00	3,464.04	3,484.15	3,415.83	12.46	12.76	5.01	-147.19	492.57	196.60	171.75	24.85	7.912	
3,600.00	3,561.14	3,584.11	3,512.48	12.83	13.15	4.20	-151.04	517.75	197.86	172.25	25.61	7.725	
3,700.00	3,658.24	3,684.06	3,609.14	13.21	13.55	3.40	-154.89	542.93	199.16	172.78	26.38	7.549	
3,800.00	3,755.33	3,784.01	3,705.79	13.59	13.94	2.62	-158.74	568.11	200.50	173.35	27.15	7.384	
3,900.00	3,852.43	3,883.97	3,802.44	13.97	14.34	1.84	-162.59	593.29	201.88	173.96	27.93	7.229	
4,000.00	3,949.53	3,983.92	3,899.10	14.35	14.73	1.07	-166.44	618.47	203.30	174.59	28.70	7.083	
4,100.00	4,046.63	4,083.87	3,995.75	14.73	15.13	0.31	-170.29	643.65	204.75	175.27	29.48	6.946	
4,200.00	4,143.73	4,183.82	4,092.40	15.11	15.52	-0.43	-174.14	668.83	206.23	175.98	30.26	6.816	
4,300.00	4,240.82	4,283.78	4,189.05	15.50	15.92	-1.17	-177.99	694.01	207.75	176.72	31.03	6.694	
4,400.00	4,337.92	4,383.73	4,285.71	15.88	16.32	-1.89	-181.84	719.19	209.30	177.49	31.82	6.579	
4,500.00	4,435.02	4,483.68	4,382.36	16.27	16.71	-2.60	-185.69	744.37	210.89	178.29	32.60	6.470	
4,600.00	4,532.12	4,583.64	4,479.01	16.65	17.11	-3.31	-189.54	769.55	212.51	179.13	33.38	6.366	
4,700.00	4,629.22	4,683.59	4,575.67	17.04	17.51	-4.00	-193.39	794.73	214.16	179.99	34.17	6.268	
4,800.00	4,726.31	4,783.54	4,672.32	17.42	17.90	-4.68	-197.24	819.91	215.84	180.89	34.95	6.175	

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 3H
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 3H	**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
4,900.00	4,823.41	4,883.50	4,768.97	17.81	18.30	-5.35	-201.09	845.09	217.55	181.81	35.74	6.087	
5,000.00	4,920.51	4,983.45	4,865.63	18.20	18.70	-6.01	-204.94	870.27	219.29	182.77	36.53	6.004	
5,100.00	5,017.61	5,083.40	4,962.28	18.58	19.10	-6.66	-208.79	895.45	221.06	183.75	37.31	5.924	
5,200.00	5,114.71	5,183.36	5,058.93	18.97	19.50	-7.30	-212.64	920.63	222.86	184.75	38.10	5.849	
5,300.00	5,211.80	5,283.31	5,155.58	19.36	19.89	-7.93	-216.49	945.81	224.68	185.79	38.89	5.777	
5,400.00	5,308.90	5,383.26	5,252.24	19.75	20.29	-8.55	-220.34	970.99	226.53	186.85	39.69	5.708	
5,500.00	5,406.00	5,483.22	5,348.89	20.14	20.69	-9.16	-224.19	996.17	228.41	187.93	40.48	5.643	
5,600.00	5,503.10	5,583.17	5,445.54	20.53	21.09	-9.75	-228.04	1,021.35	230.31	189.04	41.27	5.580	
5,700.00	5,600.20	5,683.12	5,542.20	20.91	21.49	-10.34	-231.89	1,046.53	232.24	190.17	42.06	5.521	
5,800.00	5,697.30	5,783.08	5,638.85	21.30	21.89	-10.92	-235.74	1,071.71	234.19	191.33	42.86	5.464	
5,900.00	5,794.39	5,883.03	5,735.50	21.69	22.29	-11.49	-239.59	1,096.89	236.16	192.51	43.65	5.410	
6,000.00	5,891.49	5,982.98	5,832.15	22.09	22.69	-12.05	-243.44	1,122.07	238.16	193.71	44.45	5.358	
6,100.00	5,988.59	6,082.94	5,928.81	22.48	23.08	-12.60	-247.29	1,147.25	240.18	194.94	45.25	5.308	
6,200.00	6,085.69	6,182.89	6,025.46	22.87	23.48	-13.14	-251.14	1,172.43	242.22	196.18	46.04	5.261	
6,300.00	6,182.79	6,282.84	6,122.11	23.26	23.88	-13.67	-254.99	1,197.61	244.29	197.45	46.84	5.215	
6,400.00	6,279.88	6,382.79	6,218.77	23.65	24.28	-14.20	-258.84	1,222.79	246.37	198.73	47.64	5.172	
6,500.00	6,376.98	6,482.75	6,315.42	24.04	24.68	-14.71	-262.69	1,247.97	248.47	200.04	48.43	5.130	
6,600.00	6,474.08	6,582.70	6,412.07	24.43	25.08	-15.22	-266.54	1,273.15	250.60	201.36	49.23	5.090	
6,700.00	6,571.18	6,682.65	6,508.73	24.82	25.48	-15.72	-270.39	1,298.33	252.74	202.71	50.03	5.052	
6,800.00	6,668.28	6,782.61	6,605.38	25.22	25.88	-16.20	-274.24	1,323.51	254.90	204.07	50.83	5.015	
6,900.00	6,765.37	6,882.56	6,702.03	25.61	26.28	-16.69	-278.09	1,348.69	257.08	205.45	51.63	4.979	
7,000.00	6,862.47	6,982.51	6,798.68	26.00	26.68	-17.16	-281.94	1,373.87	259.28	206.85	52.43	4.945	
7,100.00	6,959.57	7,082.47	6,895.34	26.39	27.08	-17.62	-285.79	1,399.05	261.49	208.26	53.23	4.912	
7,200.00	7,056.67	7,182.42	6,991.99	26.78	27.48	-18.08	-289.64	1,424.23	263.72	209.69	54.03	4.881	
7,300.00	7,153.77	7,282.37	7,088.64	27.18	27.88	-18.53	-293.49	1,449.41	265.97	211.14	54.83	4.851	
7,400.00	7,250.86	7,382.33	7,185.30	27.57	28.28	-18.97	-297.34	1,474.59	268.24	212.60	55.63	4.822	
7,500.00	7,347.96	7,482.28	7,281.95	27.96	28.68	-19.40	-301.19	1,499.77	270.52	214.08	56.43	4.793	
7,600.00	7,445.06	7,582.23	7,378.60	28.36	29.08	-19.83	-305.04	1,524.95	272.81	215.58	57.24	4.766	
7,700.00	7,542.16	7,682.19	7,475.25	28.75	29.48	-20.25	-308.89	1,550.13	275.12	217.08	58.04	4.740	
7,800.00	7,639.26	7,782.14	7,571.91	29.14	29.88	-20.66	-312.74	1,575.31	277.45	218.61	58.84	4.715	
7,900.00	7,736.36	7,884.56	7,671.00	29.54	30.29	-21.09	-316.65	1,600.88	279.57	219.89	59.67	4.685	
7,902.86	7,739.13	7,887.55	7,673.91	29.55	30.30	-21.10	-316.76	1,601.61	279.61	219.91	59.70	4.684	
7,950.00	7,784.76	7,936.90	7,721.80	29.73	30.50	-38.76	-318.56	1,613.38	280.44	220.33	60.11	4.666	
8,000.00	7,832.63	7,988.75	7,772.22	29.93	30.70	-53.77	-320.38	1,625.31	281.80	221.25	60.55	4.654	SF
8,050.00	7,879.58	8,039.69	7,821.87	30.12	30.90	-65.41	-322.11	1,636.59	283.99	223.01	60.98	4.657	
8,100.00	7,925.27	8,089.31	7,870.32	30.31	31.10	-74.77	-323.72	1,647.16	287.55	226.13	61.42	4.682	
8,150.00	7,969.35	8,137.22	7,917.20	30.49	31.28	-82.64	-325.22	1,656.97	293.11	231.27	61.84	4.740	
8,200.00	8,011.47	8,183.05	7,962.11	30.67	31.46	-89.43	-326.60	1,665.99	301.37	239.13	62.24	4.842	
8,250.00	8,051.32	8,226.44	8,004.69	30.83	31.62	-95.27	-327.86	1,674.20	312.99	250.37	62.62	4.998	
8,300.00	8,088.60	8,267.05	8,044.61	30.99	31.78	-100.22	-328.99	1,681.60	328.50	265.53	62.97	5.217	
8,350.00	8,123.02	8,304.58	8,081.54	31.14	31.92	-104.24	-330.00	1,688.19	348.25	284.97	63.28	5.503	
8,400.00	8,154.32	8,338.75	8,115.20	31.28	32.05	-107.28	-330.88	1,693.98	372.33	308.78	63.55	5.859	
8,450.00	8,182.27	8,369.29	8,145.32	31.42	32.16	-109.28	-331.65	1,698.98	400.66	336.87	63.79	6.281	
8,500.00	8,206.64	8,395.99	8,171.68	31.54	32.26	-110.14	-332.30	1,703.23	432.95	368.96	63.98	6.767	
8,550.00	8,227.26	8,418.67	8,194.07	31.66	32.35	-109.73	-332.83	1,706.74	468.80	404.66	64.14	7.309	
8,600.00	8,243.96	8,437.15	8,212.33	31.78	32.42	-107.82	-333.26	1,709.54	507.75	443.48	64.27	7.900	
8,621.67	8,249.95	8,443.82	8,218.93	31.83	32.44	-106.44	-333.41	1,710.54	525.46	461.15	64.32	8.170	
8,700.00	8,267.63	8,463.79	8,238.68	32.00	32.51	-103.80	-333.86	1,713.47	591.95	527.51	64.45	9.185	
8,800.00	8,282.55	8,481.39	8,256.09	32.23	32.58	-97.51	-334.25	1,716.00	680.69	616.12	64.57	10.543	
8,900.00	8,288.79	8,490.07	8,264.68	32.46	32.61	-87.71	-334.44	1,717.23	772.36	707.73	64.63	11.950	
8,921.67	8,289.00	8,490.78	8,265.38	32.51	32.61	-85.14	-334.45	1,717.33	792.48	727.85	64.64	12.260	
9,000.00	8,289.00	8,492.56	8,267.15	32.69	32.62	-85.49	-334.49	1,717.58	865.84	801.18	64.66	13.391	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,289.00	8,494.83	8,269.39	32.94	32.63	-85.94	-334.54	1,717.90	960.62	895.93	64.69	14.851	
9,200.00	8,289.00	8,497.08	8,271.62	33.20	32.64	-86.38	-334.59	1,718.21	1,056.36	991.65	64.71	16.324	
9,300.00	8,289.00	8,499.32	8,273.84	33.48	32.65	-86.82	-334.63	1,718.52	1,152.82	1,088.08	64.74	17.808	
9,400.00	8,289.00	8,501.55	8,276.04	33.77	32.65	-87.25	-334.68	1,718.83	1,249.83	1,185.07	64.76	19.299	
9,500.00	8,289.00	8,503.76	8,278.24	34.07	32.66	-87.69	-334.73	1,719.14	1,347.28	1,282.49	64.79	20.796	
9,600.00	8,289.00	11,044.04	9,673.00	34.38	39.78	-165.92	-1,749.84	1,781.09	1,425.86	1,387.16	38.70	36.847	
9,700.00	8,289.00	11,144.04	9,673.00	34.70	40.08	-165.92	-1,849.84	1,781.53	1,425.86	1,386.30	39.55	36.049	
9,800.00	8,289.00	11,244.04	9,673.00	35.04	40.39	-165.92	-1,949.84	1,781.97	1,425.86	1,385.40	40.45	35.248	
9,900.00	8,289.00	11,344.04	9,673.00	35.39	40.71	-165.92	-2,049.84	1,782.41	1,425.86	1,384.46	41.39	34.448	
10,000.00	8,289.00	11,444.04	9,673.00	35.75	41.04	-165.92	-2,149.84	1,782.85	1,425.85	1,383.49	42.37	33.655	
10,100.00	8,289.00	11,544.04	9,673.00	36.12	41.38	-165.92	-2,249.84	1,783.29	1,425.85	1,382.48	43.38	32.871	
10,200.00	8,289.00	11,644.04	9,673.00	36.51	41.73	-165.92	-2,349.84	1,783.72	1,425.85	1,381.43	44.42	32.100	
10,300.00	8,289.00	11,744.04	9,673.00	36.90	42.09	-165.92	-2,449.84	1,784.16	1,425.85	1,380.36	45.49	31.343	
10,400.00	8,289.00	11,844.04	9,673.00	37.31	42.46	-165.92	-2,549.84	1,784.60	1,425.85	1,379.26	46.59	30.603	
10,500.00	8,289.00	11,944.04	9,673.00	37.72	42.84	-165.92	-2,649.84	1,785.04	1,425.85	1,378.13	47.72	29.881	
10,600.00	8,289.00	12,044.04	9,673.00	38.15	43.23	-165.92	-2,749.84	1,785.48	1,425.85	1,376.98	48.87	29.178	
10,700.00	8,289.00	12,144.04	9,673.00	38.58	43.62	-165.92	-2,849.83	1,785.91	1,425.85	1,375.81	50.04	28.494	
10,800.00	8,289.00	12,244.04	9,673.00	39.03	44.03	-165.92	-2,949.83	1,786.35	1,425.84	1,374.61	51.23	27.830	
10,900.00	8,289.00	12,344.04	9,673.00	39.48	44.44	-165.92	-3,049.83	1,786.79	1,425.84	1,373.40	52.45	27.186	
11,000.00	8,289.00	12,444.04	9,673.00	39.94	44.87	-165.92	-3,149.83	1,787.23	1,425.84	1,372.16	53.68	26.563	
11,100.00	8,289.00	12,544.04	9,673.00	40.41	45.30	-165.92	-3,249.83	1,787.67	1,425.84	1,370.92	54.93	25.959	
11,200.00	8,289.00	12,644.04	9,673.00	40.89	45.74	-165.92	-3,349.83	1,788.11	1,425.84	1,369.65	56.19	25.375	
11,300.00	8,289.00	12,744.04	9,673.00	41.38	46.18	-165.92	-3,449.83	1,788.54	1,425.84	1,368.37	57.47	24.811	
11,400.00	8,289.00	12,844.04	9,673.00	41.88	46.64	-165.92	-3,549.83	1,788.98	1,425.84	1,367.08	58.76	24.265	
11,500.00	8,289.00	12,944.04	9,673.00	42.38	47.10	-165.92	-3,649.83	1,789.42	1,425.84	1,365.77	60.07	23.737	
11,600.00	8,289.00	13,044.04	9,673.00	42.89	47.57	-165.92	-3,749.83	1,789.86	1,425.84	1,364.45	61.38	23.228	
11,700.00	8,289.00	13,144.04	9,673.00	43.41	48.05	-165.92	-3,849.82	1,790.30	1,425.83	1,363.12	62.71	22.736	
11,800.00	8,289.00	13,244.04	9,673.00	43.93	48.53	-165.92	-3,949.82	1,790.74	1,425.83	1,361.78	64.05	22.260	
11,900.00	8,289.00	13,344.04	9,673.00	44.46	49.02	-165.92	-4,049.82	1,791.17	1,425.83	1,360.43	65.40	21.801	
12,000.00	8,289.00	13,444.04	9,673.00	45.00	49.52	-165.92	-4,149.82	1,791.61	1,425.83	1,359.07	66.76	21.357	
12,100.00	8,289.00	13,544.04	9,673.00	45.55	50.02	-165.92	-4,249.82	1,792.05	1,425.83	1,357.70	68.13	20.928	
12,200.00	8,289.00	13,644.04	9,673.00	46.10	50.53	-165.92	-4,349.82	1,792.49	1,425.83	1,356.32	69.51	20.514	
12,300.00	8,289.00	13,744.04	9,673.00	46.65	51.05	-165.92	-4,449.82	1,792.93	1,425.83	1,354.94	70.89	20.113	
12,400.00	8,289.00	13,844.04	9,673.00	47.21	51.57	-165.92	-4,549.82	1,793.37	1,425.83	1,353.54	72.28	19.726	
12,500.00	8,289.00	13,944.04	9,673.00	47.78	52.10	-165.92	-4,649.82	1,793.80	1,425.82	1,352.14	73.68	19.351	
12,600.00	8,289.00	14,044.04	9,673.00	48.35	52.63	-165.92	-4,749.82	1,794.24	1,425.82	1,350.74	75.09	18.989	
12,637.79	8,289.00	14,081.83	9,673.00	48.57	52.83	-165.92	-4,787.61	1,794.41	1,425.82	1,350.20	75.62	18.855	
12,688.51	8,289.00	14,115.99	9,673.00	48.86	53.02	-165.89	-4,821.75	1,795.30	1,426.10	1,349.77	76.33	18.684	
12,700.00	8,289.00	14,123.49	9,673.00	48.93	53.06	-165.87	-4,829.24	1,795.74	1,426.22	1,349.73	76.49	18.646	
12,750.00	8,289.00	14,150.00	9,673.00	49.23	53.20	-165.81	-4,855.65	1,797.95	1,426.53	1,349.33	77.21	18.477	
12,800.00	8,289.00	14,188.79	9,673.00	49.53	53.42	-165.83	-4,894.10	1,803.10	1,426.41	1,348.47	77.94	18.302	
12,850.00	8,289.00	14,221.45	9,673.00	49.84	53.61	-165.93	-4,926.18	1,809.19	1,425.90	1,347.20	78.70	18.118	
12,900.00	8,289.00	14,250.00	9,673.00	50.15	53.78	-166.09	-4,953.95	1,815.81	1,425.02	1,345.53	79.49	17.927	
12,950.00	8,289.00	14,286.89	9,673.00	50.47	53.99	-166.36	-4,989.36	1,826.14	1,423.74	1,343.46	80.28	17.734	
13,000.00	8,289.00	14,319.71	9,673.00	50.79	54.19	-166.69	-5,020.33	1,836.98	1,422.11	1,341.01	81.10	17.534	
13,050.00	8,289.00	14,350.00	9,673.00	51.10	54.37	-167.07	-5,048.40	1,848.35	1,420.16	1,338.21	81.95	17.330	
13,100.00	8,289.00	14,385.63	9,673.00	51.40	54.58	-167.56	-5,080.71	1,863.36	1,417.90	1,335.10	82.80	17.125	
13,150.00	8,289.00	14,418.78	9,673.00	51.70	54.78	-168.09	-5,110.01	1,878.88	1,415.38	1,331.71	83.67	16.917	
13,200.00	8,289.00	14,450.00	9,673.00	51.99	54.97	-168.67	-5,136.84	1,894.82	1,412.64	1,328.07	84.56	16.705	
13,250.00	8,289.00	14,485.60	9,673.00	52.26	55.18	-169.36	-5,166.48	1,914.53	1,409.72	1,324.26	85.46	16.496	
13,300.00	8,289.00	14,519.32	9,673.00	52.52	55.37	-170.08	-5,193.54	1,934.65	1,406.68	1,320.30	86.38	16.285	
13,350.00	8,289.00	14,550.00	9,673.00	52.77	55.55	-170.80	-5,217.22	1,954.14	1,403.57	1,316.24	87.33	16.072	

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 3H
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 3H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan 1	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	8,289.00	14,587.55	9,673.00	53.00	55.77	-171.67	-5,244.94	1,979.47	1,400.45	1,312.19	88.25	15.868	
13,450.00	8,289.00	14,622.14	9,673.00	53.20	55.96	-172.53	-5,269.16	2,004.17	1,397.38	1,308.18	89.21	15.665	
13,500.00	8,289.00	14,657.12	9,673.00	53.39	56.15	-173.43	-5,292.29	2,030.39	1,394.44	1,304.28	90.16	15.466	
13,550.00	8,289.00	14,692.53	9,673.00	53.55	56.34	-174.35	-5,314.26	2,058.16	1,391.68	1,300.57	91.12	15.274	
13,600.00	8,289.00	14,728.44	9,673.00	53.69	56.52	-175.30	-5,334.97	2,087.49	1,389.19	1,297.13	92.06	15.090	
13,650.00	8,289.00	14,764.93	9,673.00	53.80	56.70	-176.27	-5,354.35	2,118.40	1,387.02	1,294.03	92.99	14.916	
13,700.00	8,289.00	14,800.00	9,673.00	53.89	56.87	-177.20	-5,371.34	2,149.08	1,385.26	1,291.34	93.92	14.750	
13,750.00	8,289.00	14,840.01	9,673.00	53.96	57.05	-178.24	-5,388.68	2,185.13	1,383.96	1,289.19	94.76	14.605	
13,800.00	8,289.00	14,878.84	9,673.00	54.00	57.21	-179.23	-5,403.39	2,221.05	1,383.19	1,287.61	95.58	14.472	
13,838.84	8,289.00	14,909.71	9,673.00	54.01	57.34	180.00	-5,413.56	2,250.20	1,383.00	1,286.83	96.17	14.380	
13,850.00	8,289.00	14,918.72	9,673.00	54.02	57.37	179.78	-5,416.27	2,258.79	1,383.02	1,286.68	96.34	14.356	
13,900.00	8,289.00	14,959.83	9,673.00	54.01	57.53	178.79	-5,427.12	2,298.44	1,383.49	1,286.48	97.02	14.260	
13,950.00	8,289.00	15,002.41	9,673.00	53.99	57.67	177.81	-5,435.73	2,340.14	1,384.67	1,287.06	97.61	14.186	
14,000.00	8,289.00	15,046.74	9,673.00	53.94	57.81	176.83	-5,441.81	2,384.04	1,386.59	1,288.49	98.10	14.134	
14,050.00	8,289.00	15,093.17	9,673.00	53.88	57.93	175.85	-5,444.99	2,430.35	1,389.28	1,290.80	98.48	14.107	
14,100.00	8,289.00	15,142.15	9,673.00	53.80	58.04	174.86	-5,444.80	2,479.32	1,392.75	1,294.02	98.74	14.106	
14,150.00	8,289.00	15,194.25	9,673.00	53.70	58.14	173.86	-5,440.59	2,531.23	1,397.00	1,298.14	98.86	14.131	
14,200.00	8,289.00	15,250.19	9,673.00	53.59	58.22	172.83	-5,431.52	2,586.41	1,402.01	1,303.15	98.86	14.182	
14,250.00	8,289.00	15,310.91	9,673.00	53.47	58.27	171.76	-5,416.41	2,645.20	1,407.72	1,308.98	98.74	14.257	
14,300.00	8,289.00	15,377.62	9,673.00	53.33	58.30	170.62	-5,393.64	2,707.88	1,414.04	1,315.52	98.52	14.353	
14,350.00	8,289.00	15,451.88	9,673.00	53.20	58.29	169.41	-5,360.99	2,774.52	1,420.83	1,322.58	98.25	14.461	
14,400.00	8,289.00	15,535.61	9,673.00	53.05	58.23	168.10	-5,315.44	2,844.71	1,427.89	1,329.88	98.01	14.569	
14,450.00	8,289.00	15,631.08	9,673.00	52.91	58.10	166.69	-5,253.12	2,916.94	1,434.93	1,337.01	97.92	14.654	
14,500.00	8,289.00	15,740.67	9,673.00	52.76	57.89	165.24	-5,169.62	2,987.71	1,441.57	1,343.41	98.15	14.687	
14,530.51	8,289.00	15,789.58	9,673.00	52.67	57.79	164.79	-5,128.62	3,014.35	1,445.20	1,346.84	98.36	14.693	
14,600.00	8,289.00	16,008.39	9,673.00	52.46	57.22	162.58	-4,926.45	3,095.21	1,450.71	1,350.31	100.40	14.449	
14,700.00	8,289.00	16,189.21	9,673.00	52.18	56.73	162.34	-4,746.74	3,112.30	1,451.42	1,348.53	102.89	14.106	
14,762.01	8,289.00	16,262.48	9,673.00	52.01	56.54	162.33	-4,673.47	3,113.47	1,451.52	1,347.63	103.89	13.972	
14,800.00	8,289.00	16,303.78	9,673.00	51.90	56.43	162.32	-4,632.17	3,113.37	1,451.54	1,347.09	104.45	13.897	
14,900.00	8,289.00	16,403.78	9,673.00	51.64	56.18	162.32	-4,532.17	3,112.93	1,451.54	1,345.77	105.78	13.723	
15,000.00	8,289.00	16,503.78	9,673.00	51.38	55.94	162.32	-4,432.17	3,112.50	1,451.54	1,344.43	107.11	13.552	
15,100.00	8,289.00	16,603.78	9,673.00	51.14	55.70	162.32	-4,332.18	3,112.06	1,451.55	1,343.09	108.45	13.384	
15,200.00	8,289.00	16,703.78	9,673.00	50.90	55.47	162.32	-4,232.18	3,111.63	1,451.55	1,341.74	109.80	13.220	
15,300.00	8,289.00	16,803.78	9,673.00	50.66	55.25	162.32	-4,132.18	3,111.19	1,451.55	1,340.39	111.16	13.059	
15,400.00	8,289.00	16,903.78	9,673.00	50.44	55.03	162.32	-4,032.18	3,110.75	1,451.55	1,339.03	112.51	12.901	
15,500.00	8,289.00	17,003.78	9,673.00	50.23	54.83	162.32	-3,932.18	3,110.32	1,451.55	1,337.67	113.88	12.746	
15,600.00	8,289.00	17,103.78	9,673.00	50.02	54.63	162.32	-3,832.18	3,109.88	1,451.55	1,336.30	115.25	12.595	
15,700.00	8,289.00	17,203.78	9,673.00	49.82	54.44	162.32	-3,732.18	3,109.45	1,451.55	1,334.93	116.62	12.447	
15,800.00	8,289.00	17,303.78	9,673.00	49.64	54.25	162.32	-3,632.18	3,109.01	1,451.55	1,333.55	118.00	12.301	
15,900.00	8,289.00	17,403.78	9,673.00	49.46	54.08	162.32	-3,532.18	3,108.58	1,451.55	1,332.17	119.38	12.159	
16,000.00	8,289.00	17,503.78	9,673.00	49.29	53.91	162.32	-3,432.18	3,108.14	1,451.55	1,330.78	120.77	12.019	
16,100.00	8,289.00	17,603.78	9,673.00	49.13	53.75	162.32	-3,332.19	3,107.71	1,451.56	1,329.39	122.16	11.882	
16,200.00	8,289.00	17,703.78	9,673.00	48.98	53.60	162.32	-3,232.19	3,107.27	1,451.56	1,328.00	123.56	11.748	
16,300.00	8,289.00	17,803.78	9,673.00	48.84	53.46	162.32	-3,132.19	3,106.83	1,451.56	1,326.60	124.96	11.616	
16,400.00	8,289.00	17,903.78	9,673.00	48.71	53.32	162.32	-3,032.19	3,106.40	1,451.56	1,325.19	126.37	11.487	
16,500.00	8,289.00	18,003.78	9,673.00	48.59	53.20	162.32	-2,932.19	3,105.96	1,451.56	1,323.79	127.77	11.360	
16,600.00	8,289.00	18,103.78	9,673.00	48.48	53.08	162.32	-2,832.19	3,105.53	1,451.56	1,322.38	129.18	11.236	
16,700.00	8,289.00	18,203.78	9,673.00	48.38	52.98	162.32	-2,732.19	3,105.09	1,451.56	1,320.96	130.60	11.115	
16,800.00	8,289.00	18,303.78	9,673.00	48.29	52.88	162.32	-2,632.19	3,104.66	1,451.56	1,319.54	132.02	10.995	
16,900.00	8,289.00	18,403.78	9,673.00	48.21	52.79	162.32	-2,532.19	3,104.22	1,451.56	1,318.12	133.44	10.878	
17,000.00	8,289.00	18,503.78	9,673.00	48.15	52.72	162.32	-2,432.19	3,103.79	1,451.56	1,316.70	134.86	10.763	
17,100.00	8,289.00	18,603.78	9,673.00	48.09	52.65	162.32	-2,332.19	3,103.35	1,451.57	1,315.27	136.29	10.650	

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 3H
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 3H	**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
17,200.00	8,289.00	18,703.78	9,673.00	48.05	52.59	162.32	-2,232.20	3,102.92	1,451.57	1,313.84	137.72	10.540	
17,300.00	8,289.00	18,803.78	9,673.00	48.01	52.55	162.32	-2,132.20	3,102.48	1,451.57	1,312.41	139.16	10.431	
17,400.00	8,289.00	18,903.78	9,673.00	47.99	52.51	162.32	-2,032.20	3,102.04	1,451.57	1,310.97	140.59	10.325	
17,500.00	8,289.00	19,003.78	9,673.00	47.99	52.49	162.32	-1,932.20	3,101.61	1,451.57	1,309.54	142.03	10.220	
17,600.00	8,289.00	19,103.78	9,673.00	47.99	52.48	162.32	-1,832.20	3,101.17	1,451.57	1,308.10	143.47	10.117	
17,700.00	8,289.00	19,203.78	9,673.00	48.01	52.48	162.32	-1,732.20	3,100.74	1,451.57	1,306.65	144.92	10.016	
17,800.00	8,289.00	19,303.78	9,673.00	48.04	52.49	162.32	-1,632.20	3,100.30	1,451.57	1,305.21	146.37	9.917	
17,900.00	8,289.00	19,403.78	9,673.00	48.08	52.51	162.32	-1,532.20	3,099.87	1,451.57	1,303.76	147.82	9.820	
18,000.00	8,289.00	8,642.47	8,415.80	48.14	33.17	-97.81	-337.41	1,736.70	1,438.20	1,365.60	72.60	19.809	
18,100.00	8,289.00	8,640.95	8,414.29	48.21	33.16	-97.72	-337.39	1,736.52	1,363.18	1,289.74	73.44	18.561	
18,200.00	8,289.00	8,639.43	8,412.77	48.29	33.16	-97.62	-337.36	1,736.34	1,291.55	1,217.15	74.40	17.359	
18,300.00	8,289.00	8,637.89	8,411.25	48.39	33.15	-97.53	-337.33	1,736.17	1,223.91	1,148.42	75.49	16.213	
18,400.00	8,289.00	8,636.35	8,409.72	48.50	33.14	-97.43	-337.30	1,735.99	1,160.94	1,084.24	76.70	15.137	
18,500.00	8,289.00	8,634.80	8,408.18	48.63	33.14	-97.34	-337.28	1,735.81	1,103.45	1,025.44	78.02	14.144	
18,600.00	8,289.00	8,633.25	8,406.64	48.76	33.13	-97.24	-337.25	1,735.63	1,052.34	972.93	79.42	13.251	
18,700.00	8,289.00	8,631.68	8,405.09	48.92	33.13	-97.14	-337.22	1,735.45	1,008.58	927.74	80.85	12.475	
18,800.00	8,289.00	8,630.12	8,403.53	49.08	33.12	-97.05	-337.19	1,735.26	973.17	890.92	82.24	11.833	
18,900.00	8,289.00	8,628.54	8,401.96	49.26	33.12	-96.95	-337.17	1,735.08	947.02	863.51	83.51	11.340	
19,000.00	8,289.00	8,626.95	8,400.39	49.46	33.11	-96.85	-337.14	1,734.89	930.94	846.37	84.57	11.008	
19,100.00	8,289.00	8,625.36	8,398.81	50.02	33.10	-96.75	-337.11	1,734.71	925.44	840.26	85.19	10.864	
19,101.06	8,289.00	8,625.35	8,398.79	50.04	33.10	-96.75	-337.11	1,734.71	925.44	840.25	85.19	10.863	
19,101.33	8,289.00	8,625.34	8,398.79	50.05	33.10	-96.75	-337.11	1,734.71	925.44	840.25	85.19	10.863	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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
0.00	0.00	0.00	0.00	0.00	0.00	-90.66	-0.23	-19.99	19.99				
100.00	100.00	100.00	100.00	0.28	0.28	-90.66	-0.23	-19.99	19.99	19.44	0.55	36.213	
200.00	200.00	200.00	200.00	0.63	0.63	-90.66	-0.23	-19.99	19.99	18.72	1.27	15.754	
300.00	300.00	300.00	300.00	0.99	0.99	-90.66	-0.23	-19.99	19.99	18.01	1.99	10.066	
400.00	400.00	400.00	400.00	1.35	1.35	-90.66	-0.23	-19.99	19.99	17.29	2.70	7.396	
500.00	500.00	500.00	500.00	1.71	1.71	-90.66	-0.23	-19.99	19.99	16.57	3.42	5.846	
536.30	536.30	536.30	536.30	1.84	1.84	-90.00	0.00	-19.99	19.99	16.31	3.68	5.432	CC
600.00	600.00	599.97	599.95	2.07	2.07	-85.67	1.51	-19.99	20.05	15.91	4.14	4.847	ES
700.00	700.00	699.69	699.53	2.43	2.43	-71.40	6.73	-19.99	21.10	16.25	4.85	4.349	
800.00	800.00	799.20	798.69	2.79	2.79	-53.19	14.96	-19.99	25.00	19.44	5.56	4.495	
900.00	900.00	898.82	897.93	3.14	3.15	-40.22	23.64	-19.99	31.03	24.75	6.28	4.943	
1,000.00	1,000.00	998.43	997.17	3.50	3.50	-31.73	32.32	-19.99	38.11	31.12	6.99	5.451	
1,100.00	1,100.00	1,099.35	1,097.76	3.86	3.87	-24.79	40.22	-18.57	44.36	36.64	7.72	5.746	
1,200.00	1,200.00	1,200.39	1,198.53	4.22	4.22	-17.03	46.21	-14.16	48.35	39.91	8.44	5.727	
1,300.00	1,300.00	1,301.27	1,299.05	4.58	4.58	-7.65	50.27	-6.76	50.73	41.57	9.16	5.539	
1,400.00	1,400.00	1,401.75	1,398.96	4.94	4.93	3.90	52.40	3.58	52.53	42.66	9.87	5.323	
1,500.00	1,500.00	1,501.57	1,497.90	5.29	5.28	17.66	52.62	16.75	55.27	44.69	10.58	5.225	
1,600.00	1,600.00	1,600.50	1,595.53	5.65	5.63	32.65	50.98	32.67	60.72	49.45	11.27	5.387	
1,700.00	1,700.00	1,698.33	1,691.53	6.01	5.97	47.11	47.54	51.17	70.36	58.42	11.94	5.895	
1,800.00	1,800.00	1,794.89	1,785.64	6.37	6.32	59.56	42.38	72.11	84.87	72.30	12.57	6.752	
1,900.00	1,899.98	1,892.40	1,880.34	6.72	6.67	-36.10	36.31	94.54	101.78	88.56	13.21	7.702	
2,000.00	1,999.84	1,990.63	1,975.74	7.06	7.03	-30.51	30.20	117.14	117.42	103.55	13.87	8.464	
2,100.00	2,099.45	2,089.45	2,071.72	7.40	7.39	-26.94	24.06	139.86	130.78	116.23	14.55	8.988	
2,200.00	2,198.70	2,188.75	2,168.15	7.74	7.76	-24.62	17.88	162.70	141.36	126.11	15.24	9.274	
2,300.00	2,297.47	2,288.39	2,264.93	8.09	8.13	-23.16	11.68	185.62	148.92	132.97	15.95	9.339	
2,400.00	2,395.62	2,388.27	2,361.93	8.44	8.50	-22.36	5.47	208.59	153.33	136.67	16.66	9.203	
2,491.84	2,485.13	2,480.10	2,451.11	8.76	8.85	-22.10	-0.24	229.71	154.55	137.23	17.33	8.921	
2,500.00	2,493.06	2,488.26	2,459.04	8.79	8.88	-22.10	-0.74	231.59	154.54	137.16	17.38	8.890	
2,600.00	2,590.16	2,588.26	2,556.16	9.14	9.26	-22.05	-6.96	254.59	154.39	136.28	18.12	8.523	
2,700.00	2,687.25	2,688.26	2,653.28	9.50	9.64	-22.01	-13.18	277.59	154.24	135.39	18.85	8.182	
2,800.00	2,784.35	2,788.26	2,750.40	9.86	10.02	-21.96	-19.40	300.59	154.09	134.50	19.59	7.865	
2,900.00	2,881.45	2,888.26	2,847.52	10.23	10.40	-21.92	-25.62	323.59	153.94	133.60	20.34	7.569	
3,000.00	2,978.55	2,988.25	2,944.64	10.60	10.79	-21.87	-31.84	346.59	153.79	132.71	21.09	7.293	
3,100.00	3,075.65	3,088.25	3,041.76	10.96	11.17	-21.82	-38.06	369.59	153.64	131.80	21.84	7.035	
3,200.00	3,172.74	3,188.25	3,138.88	11.34	11.56	-21.78	-44.28	392.59	153.50	130.90	22.60	6.793	
3,300.00	3,269.84	3,288.25	3,236.00	11.71	11.94	-21.73	-50.50	415.59	153.35	129.99	23.35	6.566	
3,400.00	3,366.94	3,388.25	3,333.12	12.08	12.33	-21.69	-56.71	438.59	153.20	129.08	24.12	6.353	
3,500.00	3,464.04	3,488.25	3,430.24	12.46	12.72	-21.64	-62.93	461.59	153.05	128.17	24.88	6.152	
3,600.00	3,561.14	3,588.25	3,527.36	12.83	13.11	-21.59	-69.15	484.59	152.90	127.25	25.64	5.962	
3,700.00	3,658.24	3,688.25	3,624.48	13.21	13.49	-21.55	-75.37	507.59	152.75	126.34	26.41	5.784	
3,800.00	3,755.33	3,788.25	3,721.60	13.59	13.88	-21.50	-81.59	530.59	152.60	125.42	27.18	5.614	
3,900.00	3,852.43	3,888.25	3,818.72	13.97	14.27	-21.45	-87.81	553.59	152.45	124.50	27.95	5.454	
4,000.00	3,949.53	3,988.25	3,915.84	14.35	14.66	-21.41	-94.03	576.59	152.30	123.58	28.72	5.303	
4,100.00	4,046.63	4,088.25	4,012.96	14.73	15.05	-21.36	-100.25	599.59	152.16	122.66	29.50	5.158	
4,200.00	4,143.73	4,188.25	4,110.08	15.11	15.44	-21.31	-106.47	622.59	152.01	121.74	30.27	5.022	
4,300.00	4,240.82	4,288.25	4,207.20	15.50	15.83	-21.27	-112.68	645.59	151.86	120.81	31.05	4.891	
4,400.00	4,337.92	4,388.25	4,304.32	15.88	16.23	-21.22	-118.90	668.59	151.71	119.89	31.82	4.767	
4,500.00	4,435.02	4,488.25	4,401.44	16.27	16.62	-21.17	-125.12	691.59	151.56	118.96	32.60	4.649	
4,600.00	4,532.12	4,588.25	4,498.56	16.65	17.01	-21.13	-131.34	714.59	151.42	118.03	33.38	4.536	
4,700.00	4,629.22	4,688.25	4,595.68	17.04	17.40	-21.08	-137.56	737.59	151.27	117.11	34.16	4.428	
4,800.00	4,726.31	4,788.25	4,692.80	17.42	17.79	-21.03	-143.78	760.59	151.12	116.18	34.94	4.325	
4,900.00	4,823.41	4,888.25	4,789.92	17.81	18.18	-20.98	-150.00	783.59	150.97	115.25	35.72	4.226	

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 3H
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 3H	**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
5,000.00	4,920.51	4,988.25	4,887.04	18.20	18.58	-20.94	-156.22	806.59	150.83	114.32	36.50	4.132	
5,100.00	5,017.61	5,088.25	4,984.16	18.58	18.97	-20.89	-162.44	829.59	150.68	113.39	37.29	4.041	
5,200.00	5,114.71	5,188.25	5,081.28	18.97	19.36	-20.84	-168.66	852.59	150.53	112.46	38.07	3.954	
5,300.00	5,211.80	5,288.25	5,178.40	19.36	19.76	-20.79	-174.87	875.59	150.38	111.53	38.85	3.871	
5,400.00	5,308.90	5,388.25	5,275.52	19.75	20.15	-20.75	-181.09	898.59	150.24	110.60	39.64	3.790	
5,500.00	5,406.00	5,488.25	5,372.64	20.14	20.54	-20.70	-187.31	921.59	150.09	109.67	40.42	3.713	
5,600.00	5,503.10	5,588.25	5,469.76	20.53	20.94	-20.65	-193.53	944.59	149.94	108.74	41.21	3.639	
5,700.00	5,600.20	5,688.25	5,566.88	20.91	21.33	-20.60	-199.75	967.59	149.80	107.80	41.99	3.567	
5,800.00	5,697.30	5,788.25	5,664.00	21.30	21.72	-20.55	-205.97	990.59	149.65	106.87	42.78	3.498	
5,900.00	5,794.39	5,888.25	5,761.12	21.69	22.12	-20.50	-212.19	1,013.59	149.50	105.94	43.57	3.432	
6,000.00	5,891.49	5,988.25	5,858.24	22.09	22.51	-20.46	-218.41	1,036.59	149.36	105.00	44.35	3.368	
6,100.00	5,988.59	6,088.25	5,955.36	22.48	22.91	-20.41	-224.63	1,059.59	149.21	104.07	45.14	3.306	
6,200.00	6,085.69	6,188.25	6,052.48	22.87	23.30	-20.36	-230.84	1,082.59	149.06	103.14	45.93	3.246	
6,300.00	6,182.79	6,288.25	6,149.60	23.26	23.69	-20.31	-237.06	1,105.59	148.92	102.20	46.71	3.188	
6,400.00	6,279.88	6,388.25	6,246.72	23.65	24.09	-20.26	-243.28	1,128.59	148.77	101.27	47.50	3.132	
6,500.00	6,376.98	6,488.25	6,343.84	24.04	24.48	-20.21	-249.50	1,151.59	148.63	100.33	48.29	3.078	
6,600.00	6,474.08	6,588.25	6,440.96	24.43	24.88	-20.16	-255.72	1,174.59	148.48	99.40	49.08	3.025	
6,700.00	6,571.18	6,688.25	6,538.08	24.82	25.27	-20.11	-261.94	1,197.59	148.33	98.47	49.87	2.974	
6,800.00	6,668.28	6,788.25	6,635.20	25.22	25.67	-20.07	-268.16	1,220.59	148.19	97.53	50.66	2.925	
6,900.00	6,765.37	6,888.25	6,732.32	25.61	26.06	-20.02	-274.38	1,243.59	148.04	96.60	51.45	2.878	
7,000.00	6,862.47	6,988.25	6,829.44	26.00	26.46	-19.97	-280.60	1,266.59	147.90	95.66	52.24	2.831	
7,100.00	6,959.57	7,088.25	6,926.56	26.39	26.85	-19.92	-286.81	1,289.59	147.75	94.73	53.03	2.786	
7,200.00	7,056.67	7,188.25	7,023.68	26.78	27.25	-19.87	-293.03	1,312.59	147.61	93.79	53.82	2.743	
7,300.00	7,153.77	7,288.25	7,120.80	27.18	27.64	-19.82	-299.25	1,335.59	147.46	92.86	54.61	2.700	
7,400.00	7,250.86	7,388.25	7,217.92	27.57	28.04	-19.77	-305.47	1,358.59	147.32	91.92	55.40	2.659	
7,500.00	7,347.96	7,488.25	7,315.04	27.96	28.43	-19.72	-311.69	1,381.59	147.17	90.99	56.19	2.619	
7,600.00	7,445.06	7,588.25	7,412.16	28.36	28.83	-19.67	-317.91	1,404.59	147.03	90.05	56.98	2.580	
7,700.00	7,542.16	7,688.25	7,509.28	28.75	29.22	-19.62	-324.13	1,427.59	146.88	89.11	57.77	2.543	
7,800.00	7,639.26	7,792.66	7,611.03	29.14	29.63	-19.77	-330.24	1,450.21	145.41	86.79	58.62	2.481	
7,900.00	7,736.36	7,897.43	7,713.90	29.54	30.03	-20.46	-335.41	1,469.31	140.53	81.11	59.42	2.365	
7,902.86	7,739.13	7,900.42	7,716.85	29.55	30.04	-20.49	-335.54	1,469.80	140.34	80.90	59.44	2.361	
7,950.00	7,784.76	7,949.55	7,765.33	29.73	30.23	-39.27	-337.61	1,477.46	137.18	77.37	59.81	2.294	
8,000.00	7,832.63	8,001.03	7,816.27	29.93	30.42	-56.64	-339.55	1,484.62	134.12	73.91	60.21	2.227	
8,050.00	7,879.58	8,051.40	7,866.24	30.12	30.60	-71.76	-341.21	1,490.77	132.24	71.62	60.62	2.181	
8,065.57	7,893.96	8,066.79	7,881.52	30.18	30.66	-76.15	-341.67	1,492.48	132.10	71.35	60.75	2.174	SF
8,100.00	7,925.27	8,100.22	7,914.77	30.31	30.78	-85.47	-342.60	1,495.92	132.91	71.87	61.04	2.177	
8,150.00	7,969.35	8,147.09	7,961.43	30.49	30.94	-98.05	-343.74	1,500.11	137.72	76.27	61.45	2.241	
8,200.00	8,011.47	8,191.60	8,005.81	30.67	31.10	-109.28	-344.63	1,503.41	148.05	86.23	61.82	2.395	
8,250.00	8,051.32	8,233.42	8,047.55	30.83	31.24	-118.89	-345.30	1,505.90	164.62	102.48	62.14	2.649	
8,300.00	8,088.60	8,272.23	8,086.32	30.99	31.38	-126.78	-345.78	1,507.68	187.40	125.00	62.40	3.003	
8,350.00	8,123.02	8,307.77	8,121.83	31.14	31.50	-133.03	-346.11	1,508.88	215.85	153.23	62.62	3.447	
8,400.00	8,154.32	8,339.79	8,153.85	31.28	31.60	-137.82	-346.30	1,509.58	249.20	186.40	62.80	3.968	
8,450.00	8,182.27	8,368.12	8,182.17	31.42	31.70	-141.31	-346.39	1,509.92	286.67	223.72	62.96	4.554	
8,500.00	8,206.64	8,396.43	8,210.48	31.54	31.79	-144.27	-346.45	1,510.00	327.53	264.44	63.09	5.192	
8,550.00	8,227.26	8,453.60	8,267.52	31.66	31.97	-150.87	-350.00	1,510.02	369.91	306.84	63.07	5.865	
8,600.00	8,243.96	8,527.92	8,340.63	31.78	32.20	-157.51	-363.06	1,510.07	412.23	349.84	62.39	6.607	
8,621.67	8,249.95	8,536.57	8,348.91	31.83	32.23	-157.88	-365.61	1,510.08	430.16	367.64	62.51	6.881	
8,700.00	8,267.63	8,826.96	8,599.72	32.00	33.05	-168.19	-505.48	1,510.69	487.21	434.68	52.54	9.274	
8,800.00	8,282.55	9,230.88	8,777.07	32.23	33.98	-170.71	-860.22	1,512.24	509.48	475.26	34.22	14.887	
8,900.00	8,288.79	9,409.62	8,795.61	32.46	34.39	-170.81	-1,037.81	1,513.02	513.59	481.40	32.18	15.959	
8,921.67	8,289.00	9,444.49	8,796.00	32.51	34.47	-170.81	-1,072.68	1,513.18	513.60	481.53	32.07	16.017	
9,000.00	8,289.00	9,522.82	8,796.00	32.69	34.66	-170.81	-1,151.01	1,513.52	513.60	481.07	32.53	15.790	

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 3H
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 3H	**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
9,100.00	8,289.00	9,622.82	8,796.00	32.94	34.90	-170.81	-1,251.01	1,513.96	513.60	480.43	33.17	15.484	
9,200.00	8,289.00	9,722.82	8,796.00	33.20	35.16	-170.81	-1,351.01	1,514.41	513.60	479.72	33.87	15.162	
9,300.00	8,289.00	9,822.82	8,796.00	33.48	35.43	-170.81	-1,451.01	1,514.85	513.60	478.96	34.63	14.829	
9,400.00	8,289.00	9,922.82	8,796.00	33.77	35.71	-170.81	-1,551.01	1,515.29	513.60	478.15	35.45	14.489	
9,500.00	8,289.00	10,022.82	8,796.00	34.07	36.01	-170.81	-1,651.00	1,515.73	513.60	477.28	36.31	14.144	
9,600.00	8,289.00	10,122.82	8,796.00	34.38	36.31	-170.81	-1,751.00	1,516.17	513.60	476.38	37.22	13.799	
9,700.00	8,289.00	10,222.82	8,796.00	34.70	36.63	-170.81	-1,851.00	1,516.61	513.60	475.42	38.17	13.455	
9,800.00	8,289.00	10,322.82	8,796.00	35.04	36.96	-170.81	-1,951.00	1,517.05	513.59	474.43	39.16	13.114	
9,900.00	8,289.00	10,422.82	8,796.00	35.39	37.30	-170.81	-2,051.00	1,517.49	513.59	473.40	40.19	12.778	
10,000.00	8,289.00	10,522.82	8,796.00	35.75	37.65	-170.81	-2,151.00	1,517.94	513.59	472.34	41.25	12.449	
10,100.00	8,289.00	10,622.82	8,796.00	36.12	38.01	-170.81	-2,251.00	1,518.38	513.59	471.25	42.35	12.128	
10,200.00	8,289.00	10,722.82	8,796.00	36.51	38.38	-170.81	-2,351.00	1,518.82	513.59	470.12	43.47	11.815	
10,300.00	8,289.00	10,822.82	8,796.00	36.90	38.76	-170.81	-2,451.00	1,519.26	513.59	468.97	44.62	11.510	
10,400.00	8,289.00	10,922.82	8,796.00	37.31	39.16	-170.81	-2,551.00	1,519.70	513.59	467.80	45.79	11.215	
10,500.00	8,289.00	11,022.82	8,796.00	37.72	39.56	-170.81	-2,650.99	1,520.14	513.59	466.60	46.99	10.929	
10,600.00	8,289.00	11,122.82	8,796.00	38.15	39.97	-170.81	-2,750.99	1,520.58	513.59	465.38	48.21	10.653	
10,700.00	8,289.00	11,222.82	8,796.00	38.58	40.39	-170.81	-2,850.99	1,521.02	513.59	464.14	49.45	10.386	
10,800.00	8,289.00	11,322.82	8,796.00	39.03	40.82	-170.81	-2,950.99	1,521.47	513.59	462.89	50.71	10.129	
10,900.00	8,289.00	11,422.82	8,796.00	39.48	41.27	-170.81	-3,050.99	1,521.91	513.59	461.61	51.98	9.881	
11,000.00	8,289.00	11,522.82	8,796.00	39.94	41.71	-170.81	-3,150.99	1,522.35	513.59	460.32	53.27	9.642	
11,100.00	8,289.00	11,622.82	8,796.00	40.41	42.17	-170.81	-3,250.99	1,522.79	513.59	459.02	54.57	9.411	
11,200.00	8,289.00	11,722.82	8,796.00	40.89	42.64	-170.81	-3,350.99	1,523.23	513.59	457.70	55.89	9.189	
11,300.00	8,289.00	11,822.82	8,796.00	41.38	43.11	-170.81	-3,450.99	1,523.67	513.59	456.37	57.22	8.976	
11,400.00	8,289.00	11,922.82	8,796.00	41.88	43.59	-170.81	-3,550.99	1,524.11	513.59	455.03	58.56	8.770	
11,500.00	8,289.00	12,022.82	8,796.00	42.38	44.08	-170.81	-3,650.98	1,524.55	513.59	453.68	59.91	8.572	
11,600.00	8,289.00	12,122.82	8,796.00	42.89	44.58	-170.81	-3,750.98	1,525.00	513.59	452.31	61.28	8.381	
11,700.00	8,289.00	12,222.82	8,796.00	43.41	45.08	-170.81	-3,850.98	1,525.44	513.59	450.94	62.65	8.198	
11,800.00	8,289.00	12,322.82	8,796.00	43.93	45.59	-170.81	-3,950.98	1,525.88	513.59	449.56	64.03	8.021	
11,900.00	8,289.00	12,422.82	8,796.00	44.46	46.11	-170.81	-4,050.98	1,526.32	513.59	448.17	65.42	7.850	
12,000.00	8,289.00	12,522.82	8,796.00	45.00	46.63	-170.81	-4,150.98	1,526.76	513.59	446.77	66.82	7.686	
12,100.00	8,289.00	12,622.82	8,796.00	45.55	47.16	-170.81	-4,250.98	1,527.20	513.59	445.36	68.22	7.528	
12,200.00	8,289.00	12,722.82	8,796.00	46.10	47.70	-170.81	-4,350.98	1,527.64	513.59	443.95	69.64	7.375	
12,300.00	8,289.00	12,822.82	8,796.00	46.65	48.24	-170.81	-4,450.98	1,528.09	513.59	442.53	71.06	7.228	
12,400.00	8,289.00	12,922.82	8,796.00	47.21	48.79	-170.81	-4,550.98	1,528.53	513.59	441.11	72.48	7.086	
12,500.00	8,289.00	13,022.82	8,796.00	47.78	49.34	-170.81	-4,650.98	1,528.97	513.59	439.68	73.91	6.949	
12,600.00	8,289.00	13,122.82	8,796.00	48.35	49.90	-170.81	-4,750.97	1,529.41	513.59	438.24	75.35	6.816	
12,685.72	8,289.00	13,208.54	8,796.00	48.85	50.39	-170.81	-4,836.69	1,529.79	513.59	437.00	76.58	6.706	
12,688.51	8,289.00	13,209.11	8,796.00	48.86	50.39	-170.81	-4,837.26	1,529.79	513.59	436.95	76.64	6.701	
12,693.46	8,289.00	13,215.43	8,796.00	48.89	50.43	-170.81	-4,843.58	1,529.85	513.59	436.89	76.70	6.696	
12,700.00	8,289.00	13,221.20	8,796.00	48.93	50.46	-170.81	-4,849.35	1,529.96	513.59	436.79	76.80	6.687	
12,750.00	8,289.00	13,265.31	8,796.00	49.23	50.71	-170.84	-4,893.37	1,532.61	513.56	435.95	77.61	6.617	
12,800.00	8,289.00	13,309.43	8,796.00	49.53	50.97	-170.92	-4,937.10	1,538.42	513.44	435.00	78.44	6.546	
12,850.00	8,289.00	13,353.61	8,796.00	49.84	51.24	-171.06	-4,980.35	1,547.38	513.25	433.94	79.30	6.472	
12,900.00	8,289.00	13,400.00	8,796.00	50.15	51.52	-171.26	-5,024.95	1,560.11	512.98	432.84	80.15	6.400	
12,950.00	8,289.00	13,442.25	8,796.00	50.47	51.78	-171.50	-5,064.62	1,574.61	512.64	431.55	81.10	6.321	
13,000.00	8,289.00	13,486.76	8,796.00	50.79	52.06	-171.80	-5,105.23	1,592.81	512.25	430.22	82.03	6.245	
13,050.00	8,289.00	13,531.44	8,796.00	51.10	52.33	-172.16	-5,144.56	1,613.98	511.81	428.83	82.97	6.169	
13,100.00	8,289.00	13,576.31	8,796.00	51.40	52.60	-172.57	-5,182.40	1,638.08	511.32	427.39	83.93	6.092	
13,150.00	8,289.00	13,621.41	8,796.00	51.70	52.87	-173.03	-5,218.56	1,665.02	510.81	425.91	84.90	6.017	
13,200.00	8,289.00	13,666.77	8,796.00	51.99	53.14	-173.53	-5,252.82	1,694.73	510.28	424.41	85.87	5.942	
13,250.00	8,289.00	13,712.40	8,796.00	52.26	53.40	-174.08	-5,284.98	1,727.09	509.75	422.90	86.84	5.870	
13,300.00	8,289.00	13,758.36	8,796.00	52.52	53.65	-174.67	-5,314.85	1,762.00	509.23	421.41	87.82	5.799	

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 3H
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 3H	**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
13,350.00	8,289.00	13,804.66	8,796.00	52.77	53.89	-175.30	-5,342.20	1,799.34	508.74	419.96	88.78	5.731	
13,400.00	8,289.00	13,850.00	8,796.00	53.00	54.12	-175.94	-5,366.19	1,837.81	508.28	418.51	89.77	5.662	
13,450.00	8,289.00	13,898.41	8,796.00	53.20	54.34	-176.66	-5,388.58	1,880.72	507.88	417.24	90.64	5.603	
13,500.00	8,289.00	13,945.92	8,796.00	53.39	54.54	-177.38	-5,407.20	1,924.42	507.54	416.01	91.53	5.545	
13,550.00	8,289.00	13,993.91	8,796.00	53.55	54.73	-178.13	-5,422.51	1,969.88	507.28	414.90	92.37	5.492	
13,600.00	8,289.00	14,042.38	8,796.00	53.69	54.90	-178.89	-5,434.32	2,016.88	507.10	413.93	93.17	5.443	
13,650.00	8,289.00	14,091.38	8,796.00	53.80	55.05	-179.68	-5,442.44	2,065.19	507.01	413.10	93.91	5.399	
13,670.58	8,289.00	14,111.71	8,796.00	53.84	55.11	-180.00	-5,444.67	2,085.40	507.00	412.80	94.20	5.382	
13,700.00	8,289.00	14,140.93	8,796.00	53.89	55.18	179.53	-5,446.70	2,114.54	507.02	412.42	94.60	5.360	
13,750.00	8,289.00	14,191.06	8,796.00	53.96	55.29	178.74	-5,446.95	2,164.65	507.13	411.91	95.21	5.326	
13,800.00	8,289.00	14,241.78	8,796.00	54.00	55.38	177.94	-5,443.03	2,215.21	507.33	411.56	95.77	5.297	
13,850.00	8,289.00	14,293.11	8,796.00	54.02	55.44	177.16	-5,434.81	2,265.87	507.64	411.38	96.26	5.273	
13,900.00	8,289.00	14,345.08	8,796.00	54.01	55.48	176.38	-5,422.21	2,316.27	508.03	411.33	96.70	5.254	
13,950.00	8,289.00	14,397.69	8,796.00	53.99	55.49	175.62	-5,405.15	2,366.02	508.51	411.42	97.09	5.238	
14,000.00	8,289.00	14,450.95	8,796.00	53.94	55.48	174.89	-5,383.61	2,414.70	509.06	411.62	97.44	5.224	
14,050.00	8,289.00	14,504.85	8,796.00	53.88	55.44	174.18	-5,357.58	2,461.89	509.67	411.90	97.77	5.213	
14,100.00	8,289.00	14,559.40	8,796.00	53.80	55.38	173.51	-5,327.12	2,507.11	510.32	412.23	98.09	5.202	
14,150.00	8,289.00	14,614.57	8,796.00	53.70	55.30	172.87	-5,292.35	2,549.92	510.99	412.57	98.43	5.192	
14,200.00	8,289.00	14,670.34	8,796.00	53.59	55.21	172.29	-5,253.43	2,589.84	511.67	412.89	98.79	5.179	
14,250.00	8,289.00	14,726.67	8,796.00	53.47	55.09	171.75	-5,210.60	2,626.41	512.34	413.14	99.20	5.165	
14,300.00	8,289.00	14,783.54	8,796.00	53.33	54.96	171.28	-5,164.15	2,659.18	512.97	413.31	99.66	5.147	
14,350.00	8,289.00	14,840.89	8,796.00	53.20	54.81	170.86	-5,114.43	2,687.71	513.55	413.35	100.20	5.125	
14,400.00	8,289.00	14,898.65	8,796.00	53.05	54.65	170.51	-5,061.88	2,711.64	514.06	413.24	100.82	5.099	
14,450.00	8,289.00	14,956.76	8,796.00	52.91	54.49	170.22	-5,006.97	2,730.61	514.49	412.97	101.52	5.068	
14,500.00	8,289.00	15,015.15	8,796.00	52.76	54.32	170.01	-4,950.24	2,744.34	514.81	412.51	102.30	5.032	
14,530.51	8,289.00	15,050.88	8,796.00	52.67	54.22	169.92	-4,914.98	2,750.06	514.95	412.14	102.81	5.009	
14,600.00	8,289.00	15,128.37	8,796.00	52.46	54.00	170.06	-4,837.75	2,755.90	514.74	410.65	104.09	4.945	
14,700.00	8,289.00	15,231.48	8,796.00	52.18	53.72	170.33	-4,734.67	2,758.45	514.30	408.53	105.77	4.862	
14,761.86	8,289.00	15,294.28	8,796.00	52.01	53.55	170.42	-4,671.87	2,758.35	514.17	407.44	106.74	4.817	
14,762.01	8,289.00	15,294.44	8,796.00	52.01	53.55	170.42	-4,671.71	2,758.35	514.17	407.43	106.74	4.817	
14,800.00	8,289.00	15,332.43	8,796.00	51.90	53.45	170.42	-4,633.72	2,758.19	514.18	406.88	107.29	4.792	
14,900.00	8,289.00	15,432.43	8,796.00	51.64	53.19	170.42	-4,533.73	2,757.76	514.18	405.42	108.75	4.728	
15,000.00	8,289.00	15,532.43	8,796.00	51.38	52.94	170.41	-4,433.73	2,757.33	514.18	403.96	110.22	4.665	
15,100.00	8,289.00	15,632.43	8,796.00	51.14	52.70	170.41	-4,333.73	2,756.90	514.18	402.50	111.68	4.604	
15,200.00	8,289.00	15,732.43	8,796.00	50.90	52.47	170.41	-4,233.73	2,756.47	514.18	401.03	113.15	4.544	
15,300.00	8,289.00	15,832.43	8,796.00	50.66	52.24	170.41	-4,133.73	2,756.04	514.18	399.56	114.62	4.486	
15,400.00	8,289.00	15,932.43	8,796.00	50.44	52.03	170.41	-4,033.73	2,755.61	514.18	398.09	116.09	4.429	
15,500.00	8,289.00	16,032.43	8,796.00	50.23	51.82	170.41	-3,933.73	2,755.18	514.19	396.62	117.57	4.373	
15,600.00	8,289.00	16,132.43	8,796.00	50.02	51.62	170.41	-3,833.73	2,754.75	514.19	395.14	119.05	4.319	
15,700.00	8,289.00	16,232.43	8,796.00	49.82	51.43	170.41	-3,733.73	2,754.32	514.19	393.66	120.53	4.266	
15,800.00	8,289.00	16,332.43	8,796.00	49.64	51.25	170.41	-3,633.73	2,753.89	514.19	392.18	122.01	4.214	
15,900.00	8,289.00	16,432.43	8,796.00	49.46	51.07	170.41	-3,533.73	2,753.46	514.19	390.70	123.49	4.164	
16,000.00	8,289.00	16,532.43	8,796.00	49.29	50.91	170.41	-3,433.74	2,753.03	514.19	389.21	124.98	4.114	
16,100.00	8,289.00	16,632.43	8,796.00	49.13	50.75	170.40	-3,333.74	2,752.60	514.19	387.72	126.47	4.066	
16,200.00	8,289.00	16,732.43	8,796.00	48.98	50.61	170.40	-3,233.74	2,752.17	514.20	386.24	127.96	4.018	
16,300.00	8,289.00	16,832.43	8,796.00	48.84	50.47	170.40	-3,133.74	2,751.74	514.20	384.75	129.45	3.972	
16,400.00	8,289.00	16,932.43	8,796.00	48.71	50.35	170.40	-3,033.74	2,751.31	514.20	383.25	130.95	3.927	
16,500.00	8,289.00	17,032.43	8,796.00	48.59	50.23	170.40	-2,933.74	2,750.88	514.20	381.76	132.44	3.882	
16,600.00	8,289.00	17,132.43	8,796.00	48.48	50.12	170.40	-2,833.74	2,750.45	514.20	380.26	133.94	3.839	
16,700.00	8,289.00	17,232.43	8,796.00	48.38	50.03	170.40	-2,733.74	2,750.02	514.20	378.77	135.44	3.797	
16,800.00	8,289.00	17,332.43	8,796.00	48.29	49.94	170.40	-2,633.74	2,749.59	514.21	377.27	136.94	3.755	
16,900.00	8,289.00	17,432.43	8,796.00	48.21	49.86	170.40	-2,533.74	2,749.16	514.21	375.77	138.44	3.714	

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 3H
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 3H	**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:

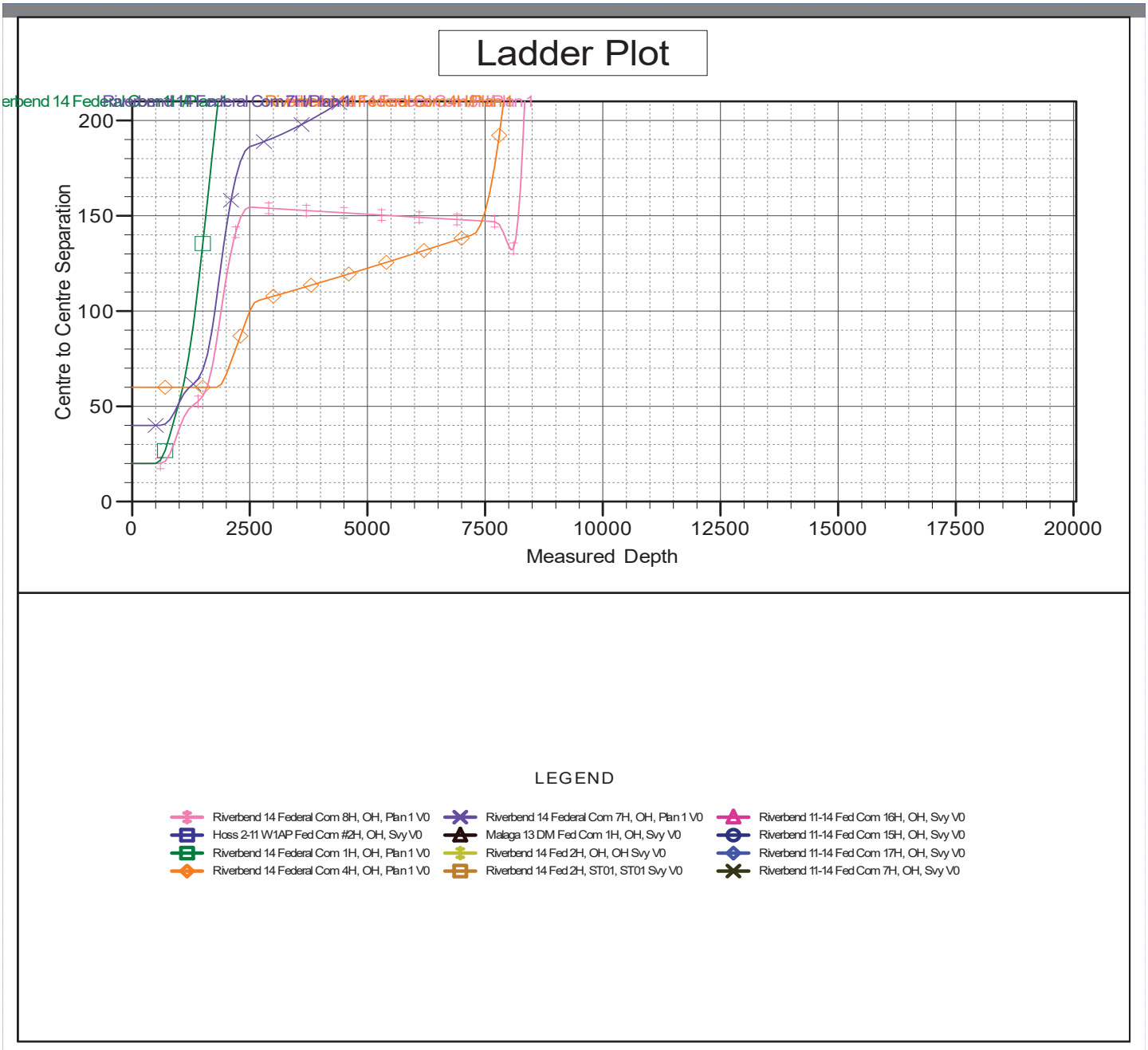
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,000.00	8,289.00	17,532.43	8,796.00	48.15	49.80	170.40	-2,433.74	2,748.73	514.21	374.27	139.94	3.674	
17,100.00	8,289.00	17,632.43	8,796.00	48.09	49.75	170.39	-2,333.75	2,748.30	514.21	372.76	141.45	3.635	
17,200.00	8,289.00	17,732.43	8,796.00	48.05	49.70	170.39	-2,233.75	2,747.87	514.21	371.26	142.95	3.597	
17,300.00	8,289.00	17,832.43	8,796.00	48.01	49.67	170.39	-2,133.75	2,747.45	514.21	369.75	144.46	3.560	
17,400.00	8,289.00	17,932.43	8,796.00	47.99	49.65	170.39	-2,033.75	2,747.02	514.21	368.25	145.97	3.523	
17,500.00	8,289.00	18,032.43	8,796.00	47.99	49.65	170.39	-1,933.75	2,746.59	514.22	366.74	147.48	3.487	
17,600.00	8,289.00	18,132.43	8,796.00	47.99	49.65	170.39	-1,833.75	2,746.16	514.22	365.23	148.99	3.451	
17,700.00	8,289.00	18,232.43	8,796.00	48.01	49.67	170.39	-1,733.75	2,745.73	514.22	363.72	150.50	3.417	
17,800.00	8,289.00	18,332.43	8,796.00	48.04	49.70	170.39	-1,633.75	2,745.30	514.22	362.21	152.01	3.383	
17,900.00	8,289.00	18,432.43	8,796.00	48.08	49.74	170.39	-1,533.75	2,744.87	514.22	360.69	153.53	3.349	
18,000.00	8,289.00	18,532.43	8,796.00	48.14	49.80	170.39	-1,433.75	2,744.44	514.22	359.18	155.04	3.317	
18,100.00	8,289.00	18,632.43	8,796.00	48.21	49.87	170.38	-1,333.75	2,744.01	514.22	357.67	156.56	3.285	
18,200.00	8,289.00	18,732.43	8,796.00	48.29	49.95	170.38	-1,233.76	2,743.58	514.23	356.15	158.08	3.253	
18,300.00	8,289.00	18,832.43	8,796.00	48.39	50.05	170.38	-1,133.76	2,743.15	514.23	354.63	159.59	3.222	
18,400.00	8,289.00	18,932.43	8,796.00	48.50	50.16	170.38	-1,033.76	2,742.72	514.23	353.12	161.11	3.192	
18,500.00	8,289.00	19,032.43	8,796.00	48.63	50.28	170.38	-933.76	2,742.29	514.23	351.60	162.63	3.162	
18,600.00	8,289.00	19,132.43	8,796.00	48.76	50.42	170.38	-833.76	2,741.86	514.23	350.08	164.15	3.133	
18,700.00	8,289.00	19,232.43	8,796.00	48.92	50.57	170.38	-733.76	2,741.43	514.23	348.56	165.68	3.104	
18,800.00	8,289.00	19,332.43	8,796.00	49.08	50.73	170.38	-633.76	2,741.00	514.23	347.04	167.20	3.076	
18,900.00	8,289.00	19,432.43	8,796.00	49.26	50.91	170.38	-533.76	2,740.57	514.24	345.51	168.72	3.048	
19,000.00	8,289.00	19,532.43	8,796.00	49.46	51.10	170.38	-433.76	2,740.14	514.24	343.99	170.25	3.021	
19,100.00	8,289.00	19,632.43	8,796.00	50.02	51.30	170.37	-333.76	2,739.71	514.24	342.85	171.39	3.000	
19,101.33	8,289.00	19,633.76	8,796.00	50.05	51.30	170.37	-332.43	2,739.70	514.24	342.83	171.40	3.000	

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Riverbend 14 Federal Com 3H
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 3H	**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 3H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.15°



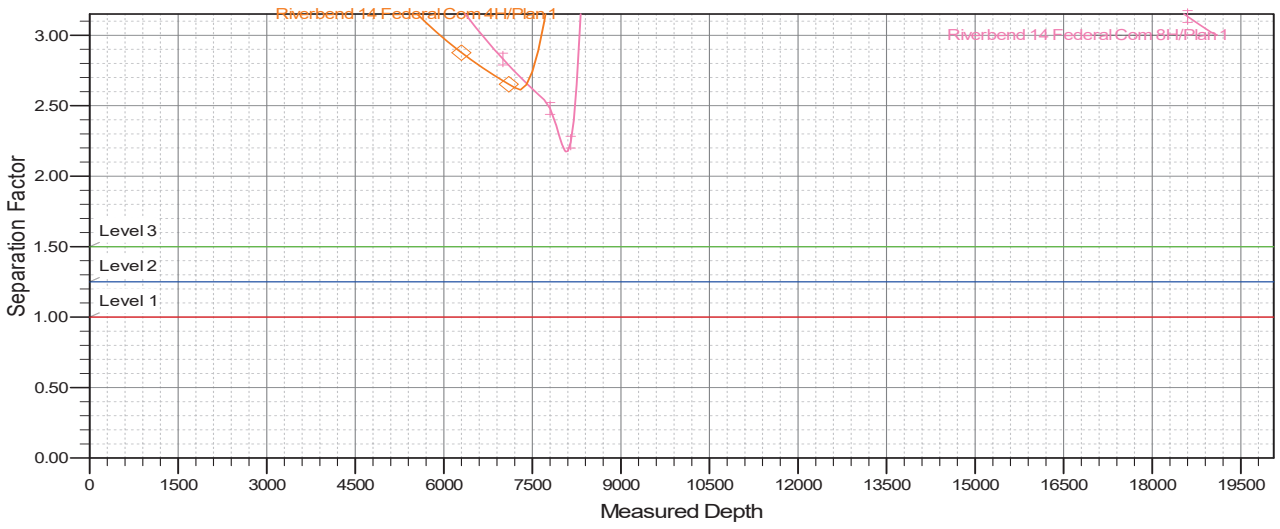
Anticollision Report

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Coordinate System is US State Plane 1983, New Mexico Eastern Zone
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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 1H, 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

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 3H		Sec 11 T25S, R28E	264 FSL/1860 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 3H		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)

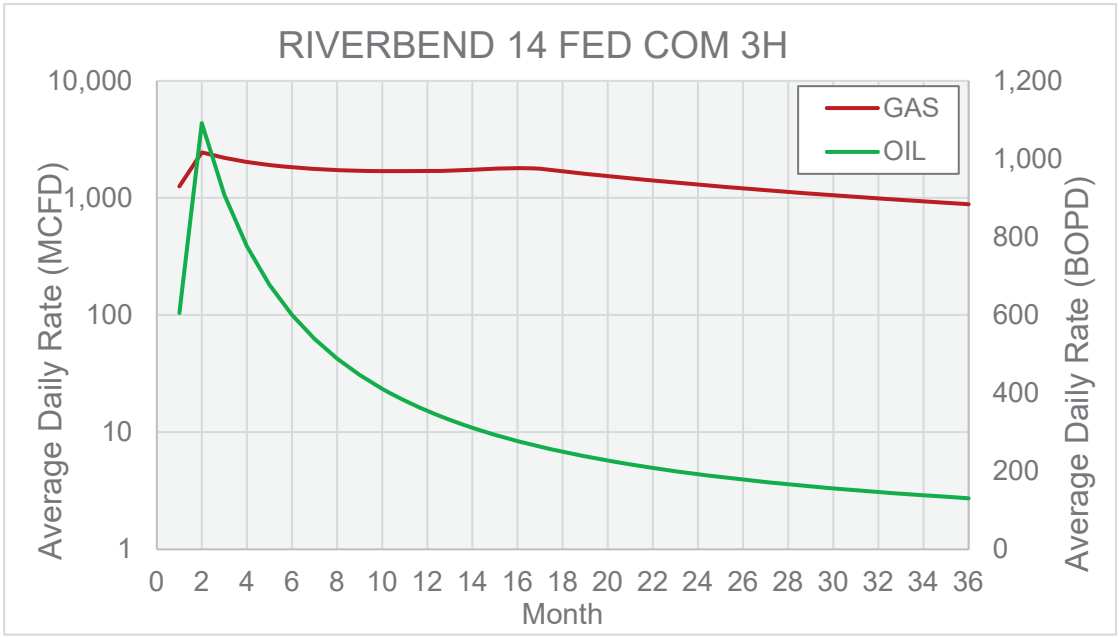
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

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 3H
GAS
OIL
Average Daily Rate (MCFD)
Average Daily Rate (BOPD)
Month
10,000
1,000
100
10
1
1,200
1,000
800
600
400
200
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36

RIVERBEND 14 FED COM 3H	RIVERBEND 14 FED COM 3H
GAS MCFD	OIL BOPD
1,257	605
2,448	1,092
2,196	908
2,026	776
1,907	677
1,824	600
1,766	539
1,727	488
1,704	446
1,692	411
1,691	381
1,699	354
1,715	331
1,737	311
1,767	293
1,802	277
1,774	263
1,686	250
1,607	238
1,534	227
1,467	217
1,406	208
1,350	200
1,298	192
1,249	185
1,205	178
1,163	172
1,124	166
1,087	161
1,053	156
1,020	151
990	147
961	142
934	138
908	135
884	131

Cimarex
VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
    a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
5. Under routine production operations, Cimarex will not flare/vent unless:
    a. Venting or flaring occurs due to an emergency or equipment malfunction.
    b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
    c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
    d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
    e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
    f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
    g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
    h. Venting or flaring occurs as a result of normal dehydration unit operations.

i. Venting or flaring occurs as a result of bradenhead testing.
j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
k. Venting or flaring occurs as a result of a packer leakage test.
l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.

6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc…
9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
    a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
    b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
    a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

- **Workovers:**
  - Always strive to kill well when performing downhole maintenance.
  - If vapors or trapped pressure is present and must be relieved then:
    - Initial blowdown to production facility:
      - Route vapors to LP flare if possible/applicable
    - Blowdown to portable gas buster tank:
      - Vent to existing or portable flare if applicable.

- **Stock tank servicing:**
  - Minimize time spent with thief hatches open.
  - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
    - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
  - Isolate the vent lines and overflows on the tank being serviced from other tanks.

- **Pressure vessel/compressor servicing and associated blowdowns:**
  - Route to flare where possible.
  - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
  - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
  - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

- **Flare/combustor maintenance:**
  - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
  - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
  - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.

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

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

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

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

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

5 F-4.3' El. 33.9'

6 F-8.4' El. 29.8'

7 F-12.3' El. 25.9'

Alternate Egress

Approximate Topsoil Fill Area

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)

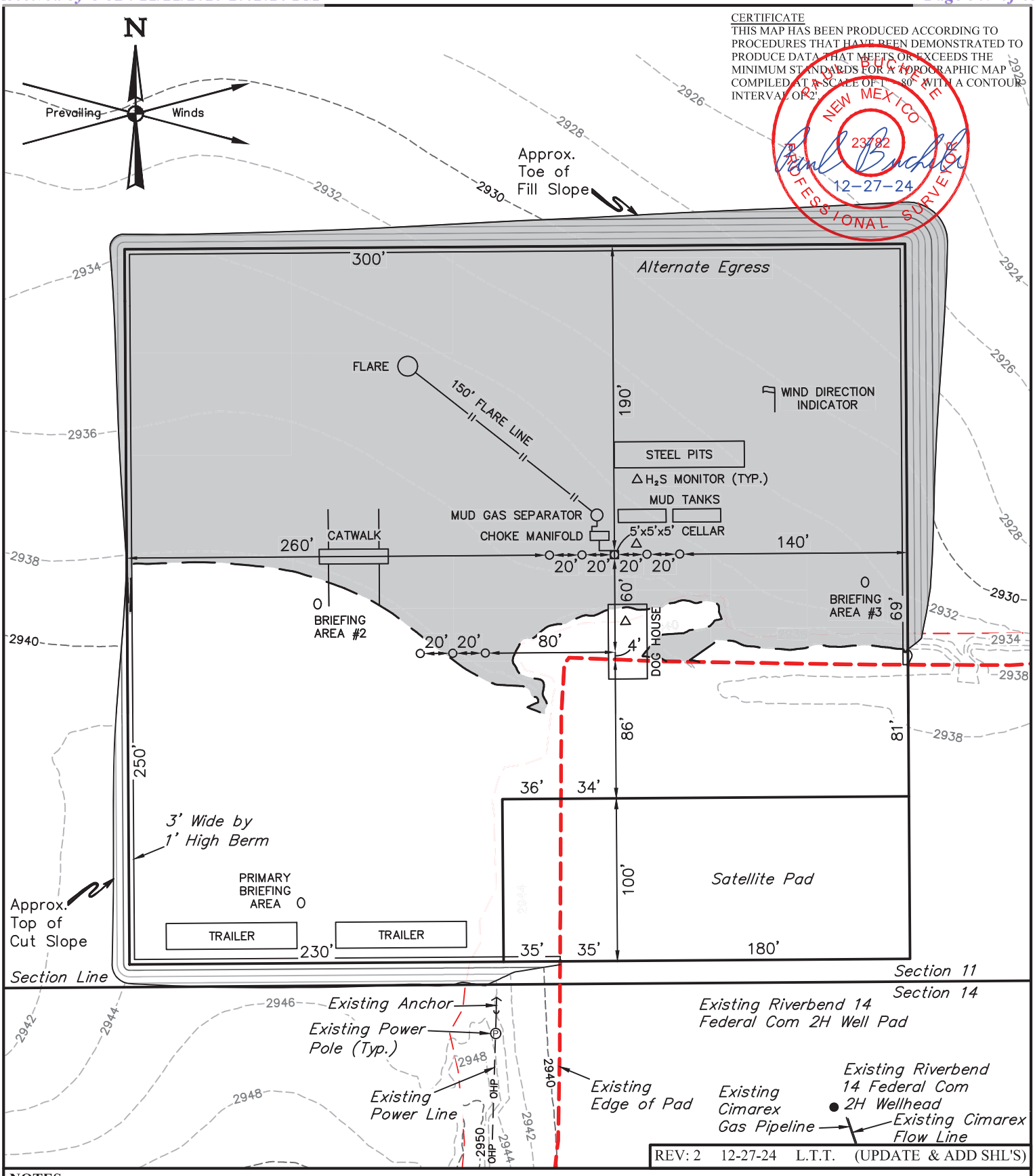
CIMAREX ENERGY CO.

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



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

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

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☐ 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)

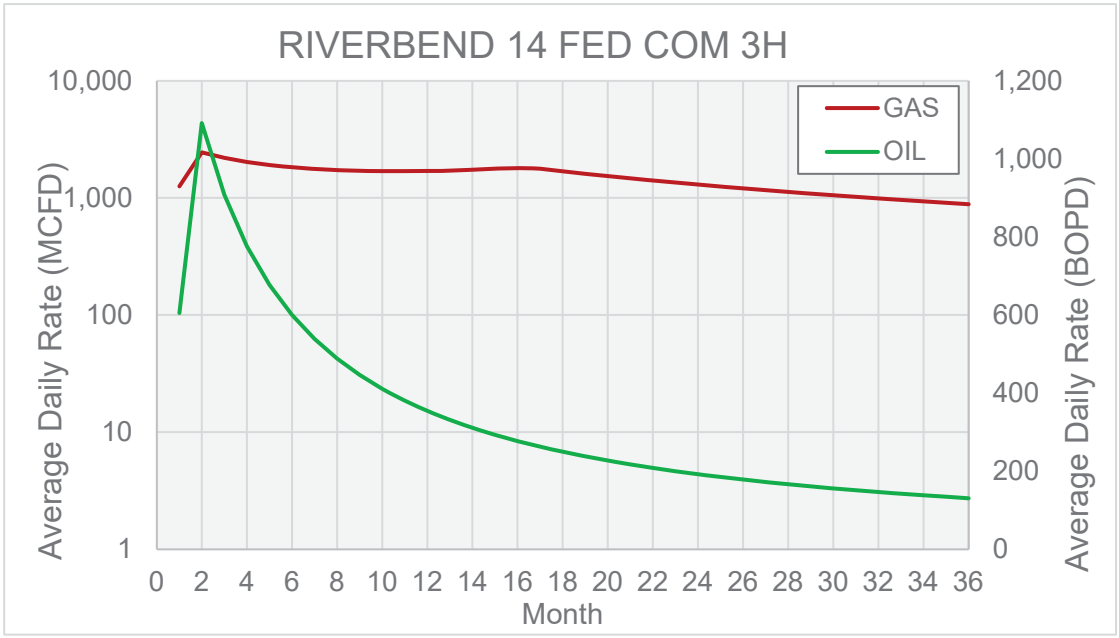
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

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 3H
GAS
OIL
Average Daily Rate (MCFD)
Average Daily Rate (BOPD)
Month
10,000
1,000
100
10
1
1,200
1,000
800
600
400
200
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36

RIVERBEND 14 FED COM 3H	RIVERBEND 14 FED COM 3H
GAS MCFD	OIL BOPD
1,257	605
2,448	1,092
2,196	908
2,026	776
1,907	677
1,824	600
1,766	539
1,727	488
1,704	446
1,692	411
1,691	381
1,699	354
1,715	331
1,737	311
1,767	293
1,802	277
1,774	263
1,686	250
1,607	238
1,534	227
1,467	217
1,406	208
1,350	200
1,298	192
1,249	185
1,205	178
1,163	172
1,124	166
1,087	161
1,053	156
1,020	151
990	147
961	142
934	138
908	135
884	131

Cimarex
VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
    a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
5. Under routine production operations, Cimarex will not flare/vent unless:
    a. Venting or flaring occurs due to an emergency or equipment malfunction.
    b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
    c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
    d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
    e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
    f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
    g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
    h. Venting or flaring occurs as a result of normal dehydration unit operations.

i. Venting or flaring occurs as a result of bradenhead testing.
j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
k. Venting or flaring occurs as a result of a packer leakage test.
l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.

6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc…
9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
    a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
    b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
    a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

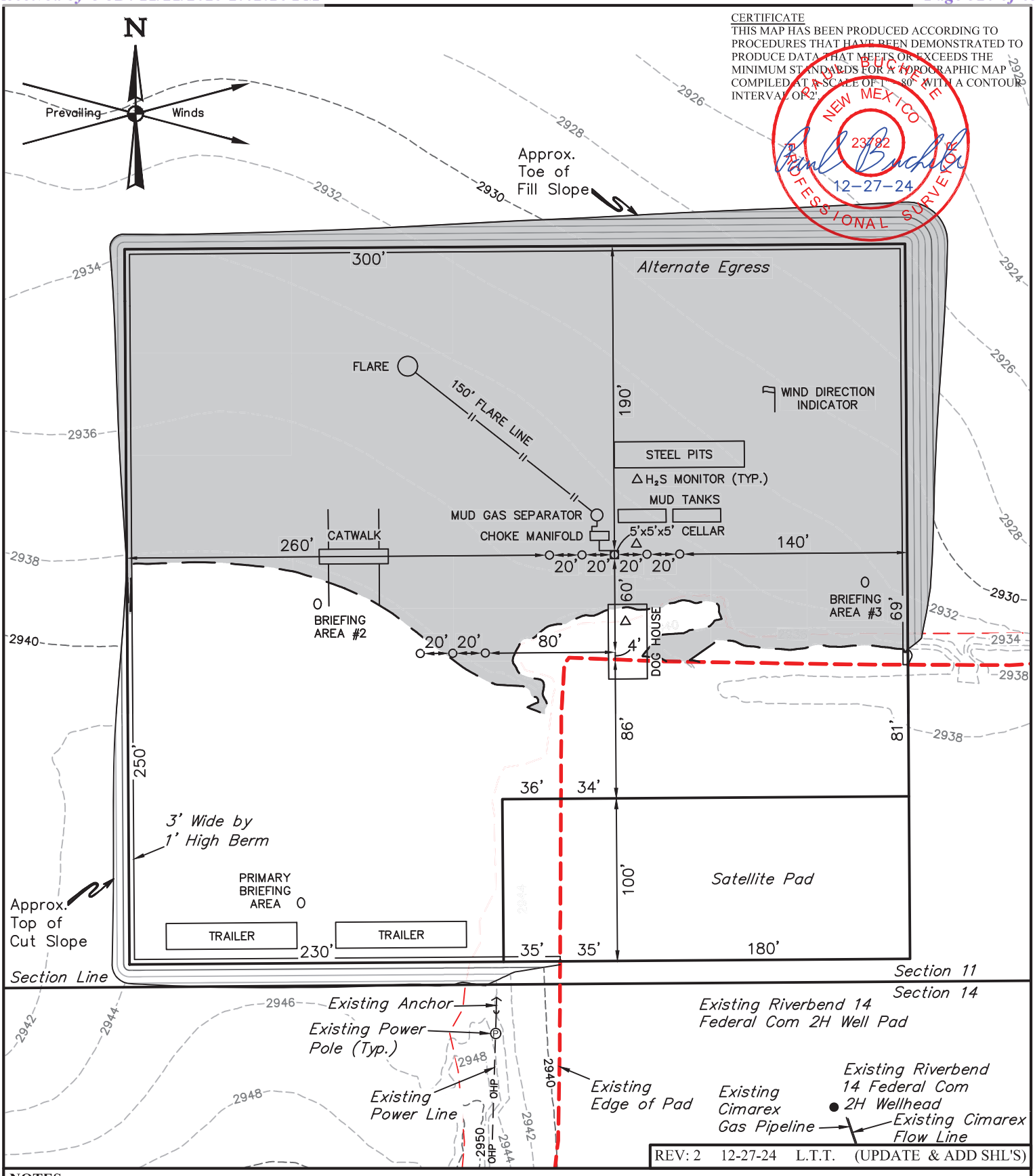
- **Workovers:**
  - Always strive to kill well when performing downhole maintenance.
  - If vapors or trapped pressure is present and must be relieved then:
    - Initial blowdown to production facility:
      - Route vapors to LP flare if possible/applicable
    - Blowdown to portable gas buster tank:
      - Vent to existing or portable flare if applicable.

- **Stock tank servicing:**
  - Minimize time spent with thief hatches open.
  - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
    - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
  - Isolate the vent lines and overflows on the tank being serviced from other tanks.

- **Pressure vessel/compressor servicing and associated blowdowns:**
  - Route to flare where possible.
  - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
  - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
  - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

- **Flare/combustor maintenance:**
  - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
  - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
  - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.



REV: 2 12-27-24 L.T.T. (UPDATE & ADD SHL'S)

NOTES:

- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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

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

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

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

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

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

5 F-4.3' El. 33.9'

180'

120'

6 F-8.4' El. 29.8'

Alternate Egress

7 F-12.3' El. 25.9'

Approximate Topsoil Fill Area

80'

N00°24'38"W 110'

F-2.5' El. 35.7'

4H 7H 8H 3H 1H

F-3.7' El. 34.5'

260'

140'

20' 20' 20' 20'

4 F-0.1' El. 38.1'

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

8 F-7.1' El. 31.1'

60'

69'

20' 20'

80'

4'

C-0.3' El. 38.5'

SHL SHL SHL

F-0.5' El. 37.7'

9 C-0.2' El. 38.4'

86'

81'

250'

36'

34'

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Satellite Pad

100'

Approx. Top of Cut Slope

3 C-5.7' El. 43.9'

230'

35'

35'

1

180'

10

Section Line

2 C-1.0' El. 39.2'

Section 11

Section 14

Existing Anchor

Existing Power Pole (Typ.)

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Power Line

Existing Edge of Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

FINISHED GRADE ELEVATION = 2,938'

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

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

NOTES:

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

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

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

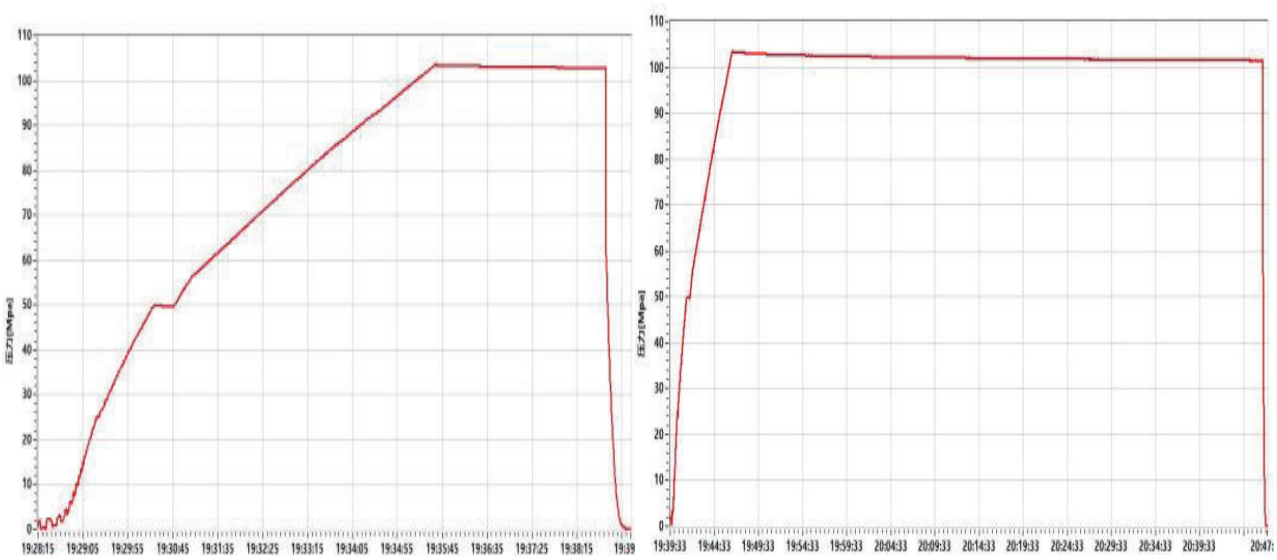
AustinHOSE

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.

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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
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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

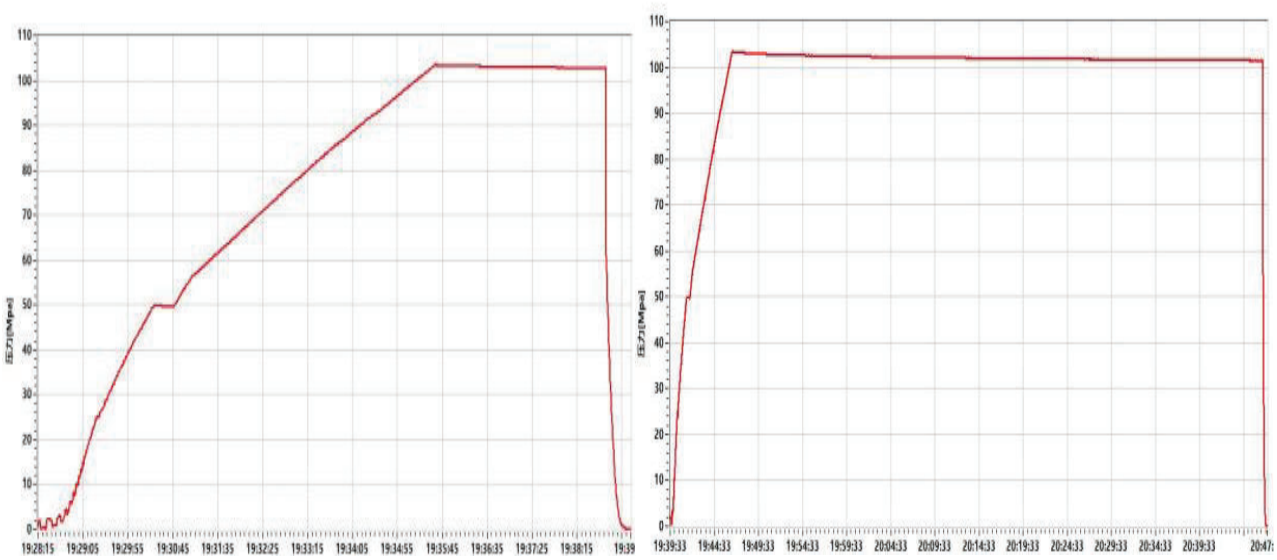
AustinHOSE

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: 10400105707 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

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

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

RIVERBEND_14_FEDERAL_E2W2_existing_road_plat_20250625115939.pdf
RIVERBEND_14_FEDERAL_E2W2_existing_road_plat_20250912081030.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:** 3H

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_20250912081050.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: An existing battery will be utilized and expanded an additional 2.669 acres for the pad, + 0.294 for overhead powerlines for a total of 2.993 acres of total additional disturbance.
Production Facilities map:

D_24550_20_100__GENERAL_ARRANGEMENT_PLOT_PLAN_Rev.0__1__20250625120209.pdf
RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250625121035.pdf
D_24550_20_100__GENERAL_ARRANGEMENT_PLOT_PLAN_Rev.0__1__20250912081104.pdf
RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250912081117.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:** 3H

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_20250915162540.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:** 3H

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: 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

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

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:** 3H

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_location_layout_plat_20250912081221.pdf
RIVERBEND_14_FEDERAL_E2W2_surface_use_plat_20250912081221.pdf
RIVERBEND_14_FEDERAL_E2W2_bulk_line_row_plat_20250912081222.pdf
RIVERBEND_14_FEDERAL_E2W2_powerline_row_plat_20250912081222.pdf
RIVERBEND_14_CTB_PAD_EXPANSION_FINAL_03_18_25_20250912081236.pdf

Comments:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** RIVERBEND 14 FED COM

Multiple Well Pad Number: 3H

Recontouring

RIVERBEND_14_FEDERAL_E2W2_reclamation_plat_20250625120425.pdf

RIVERBEND_14_FEDERAL_E2W2_reclamation_plat_20250912081254.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:** 3H

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:** 3H

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:** 3H

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Disturbance type: TRANSMISSION LINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

Disturbance type: OTHER

Describe: CTB

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Section 12 - Other

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

ROW Type(s):

ROW

SUPO Additional Information: Onsite conducted on August 5, 2024 with Brendan Harris & Brandon Carico, Ellen Trout. Casey Jones, Shelly Bowen onsite for Coterra.
Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

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

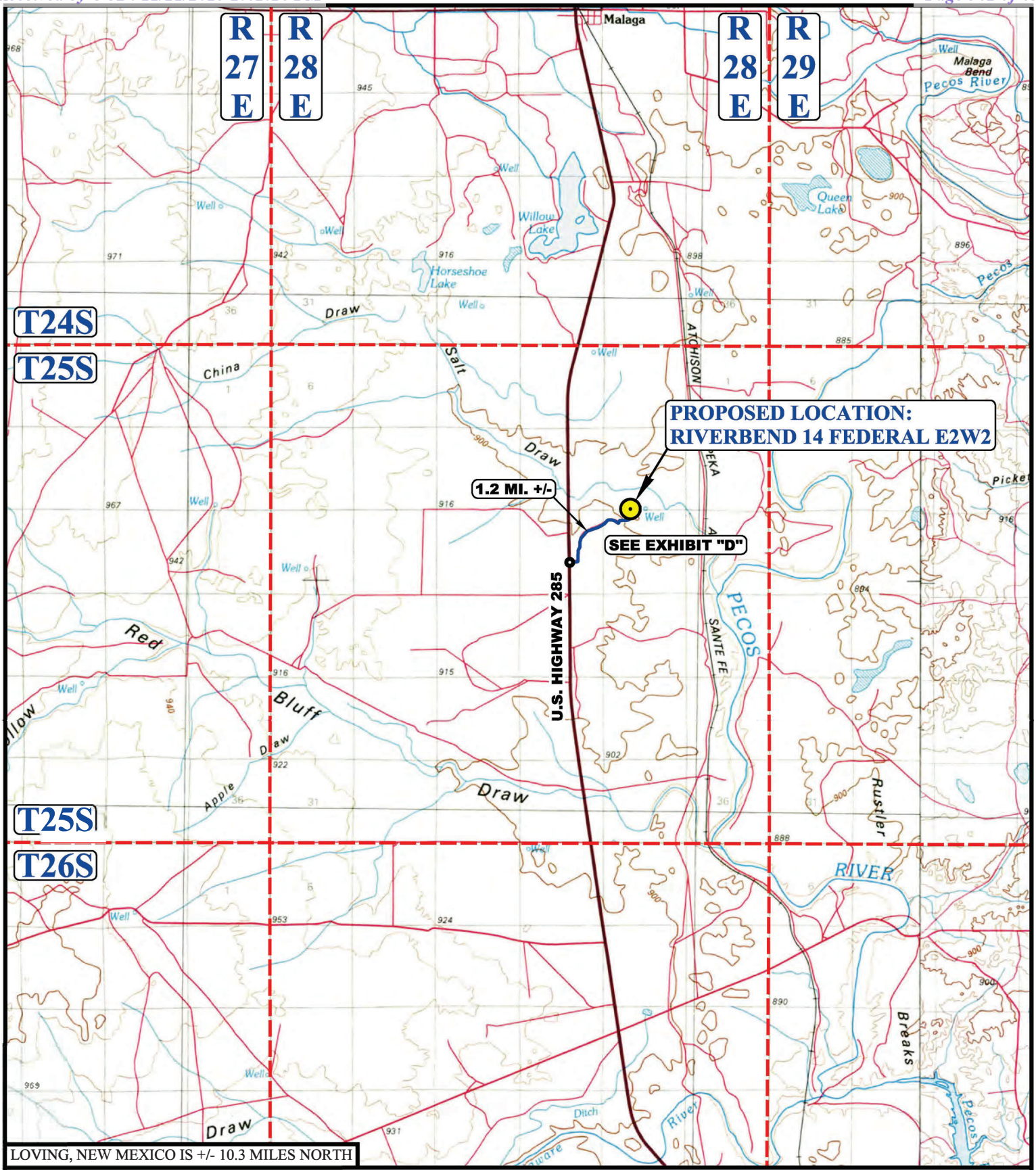
TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.2 MILES.

CIMAREX ENERGY CO.

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

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

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Vernal, UT 84078 * (435) 789-1017



LOVING, NEW MEXICO IS +/- 10.3 MILES NORTH

LEGEND:

⊙ **PROPOSED LOCATION**

N

CIMARE X ENERGY CO.

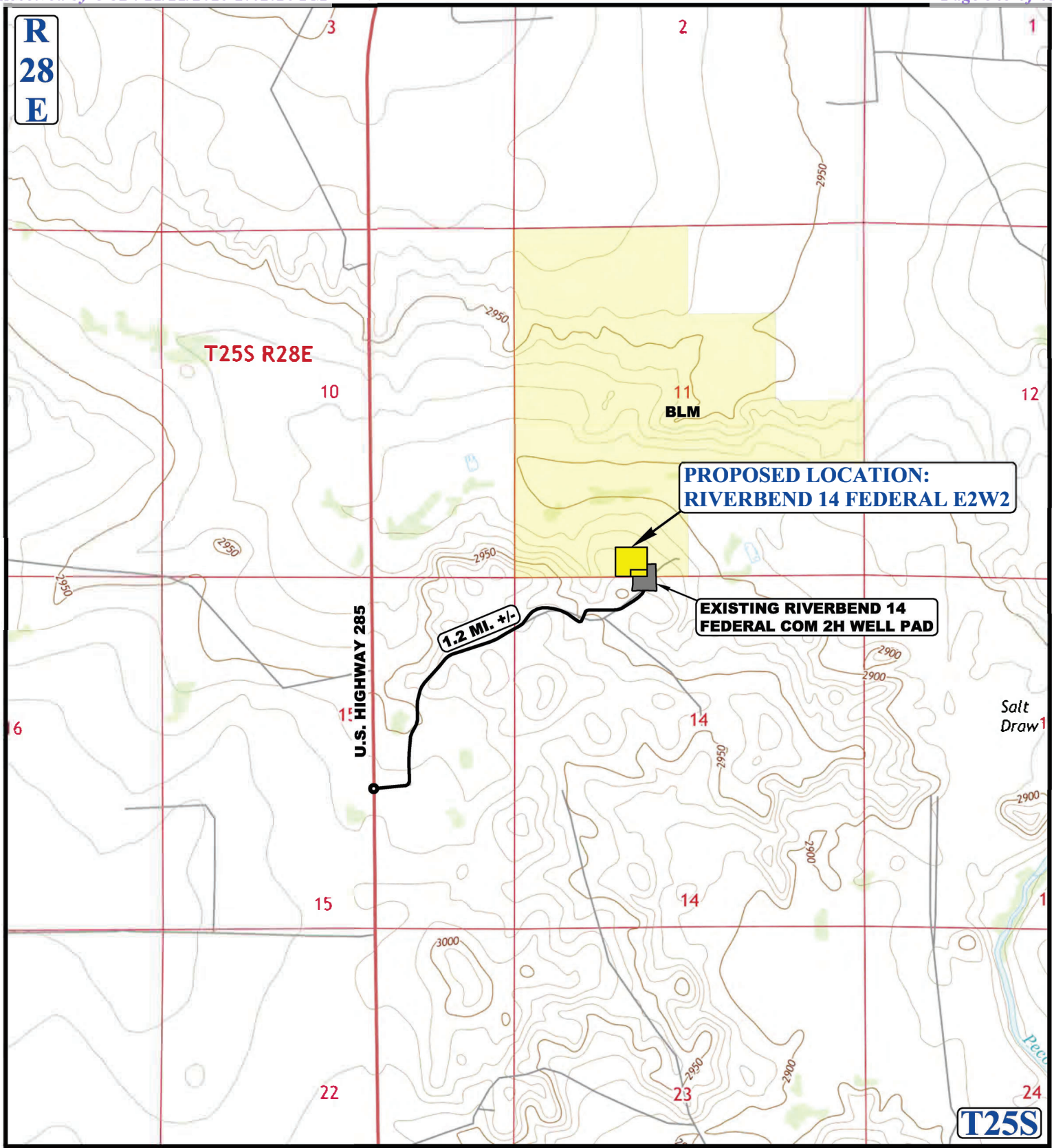
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234' FSL 1780' FWL (APPROX. CENTER OF PAD)
SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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**

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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

N

CIMAREX ENERGY CO.

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

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

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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.

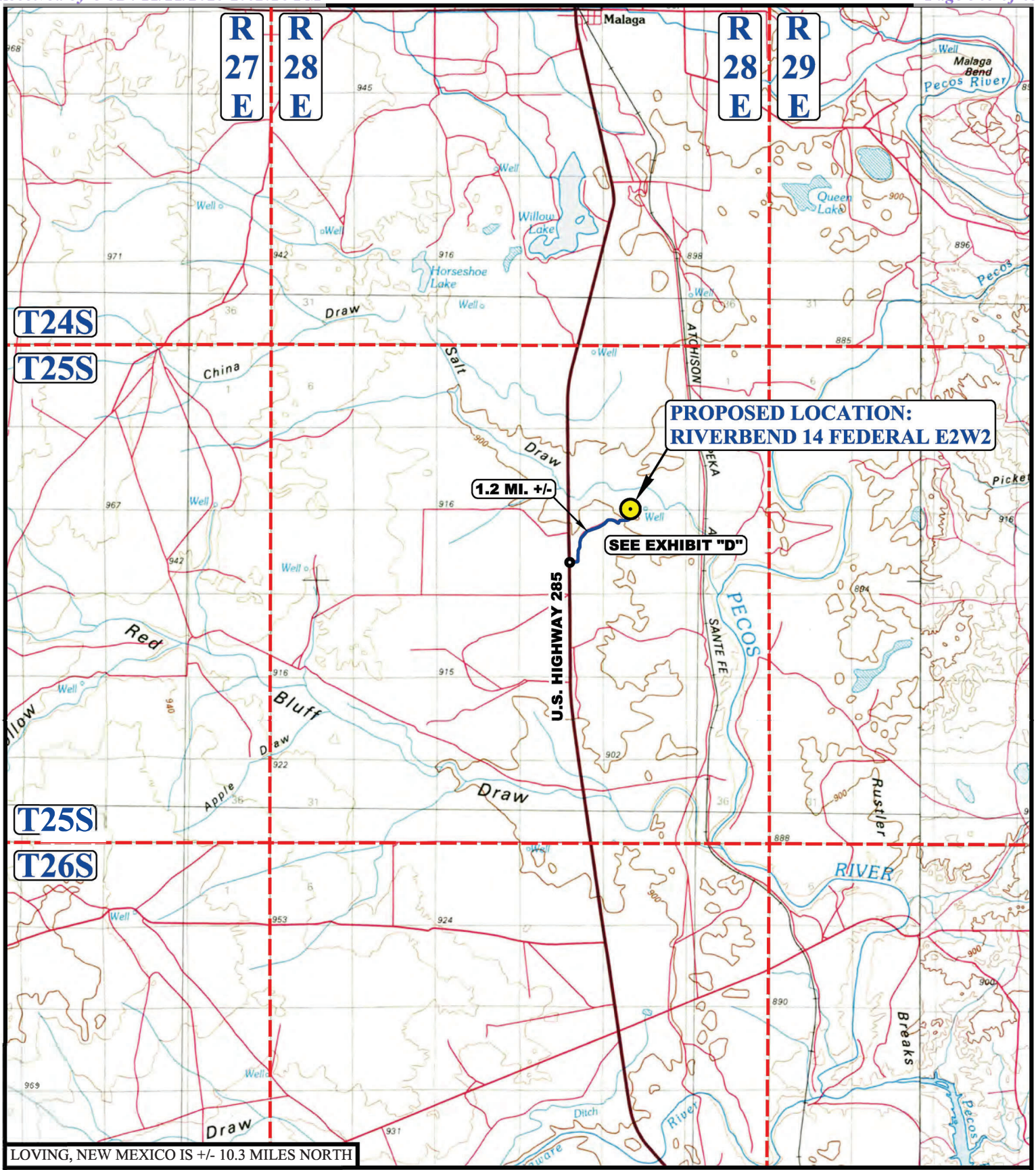
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CIMAREX ENERGY CO.

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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**

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LOVING, NEW MEXICO IS +/- 10.3 MILES NORTH

LEGEND:

⊙ **PROPOSED LOCATION**

N

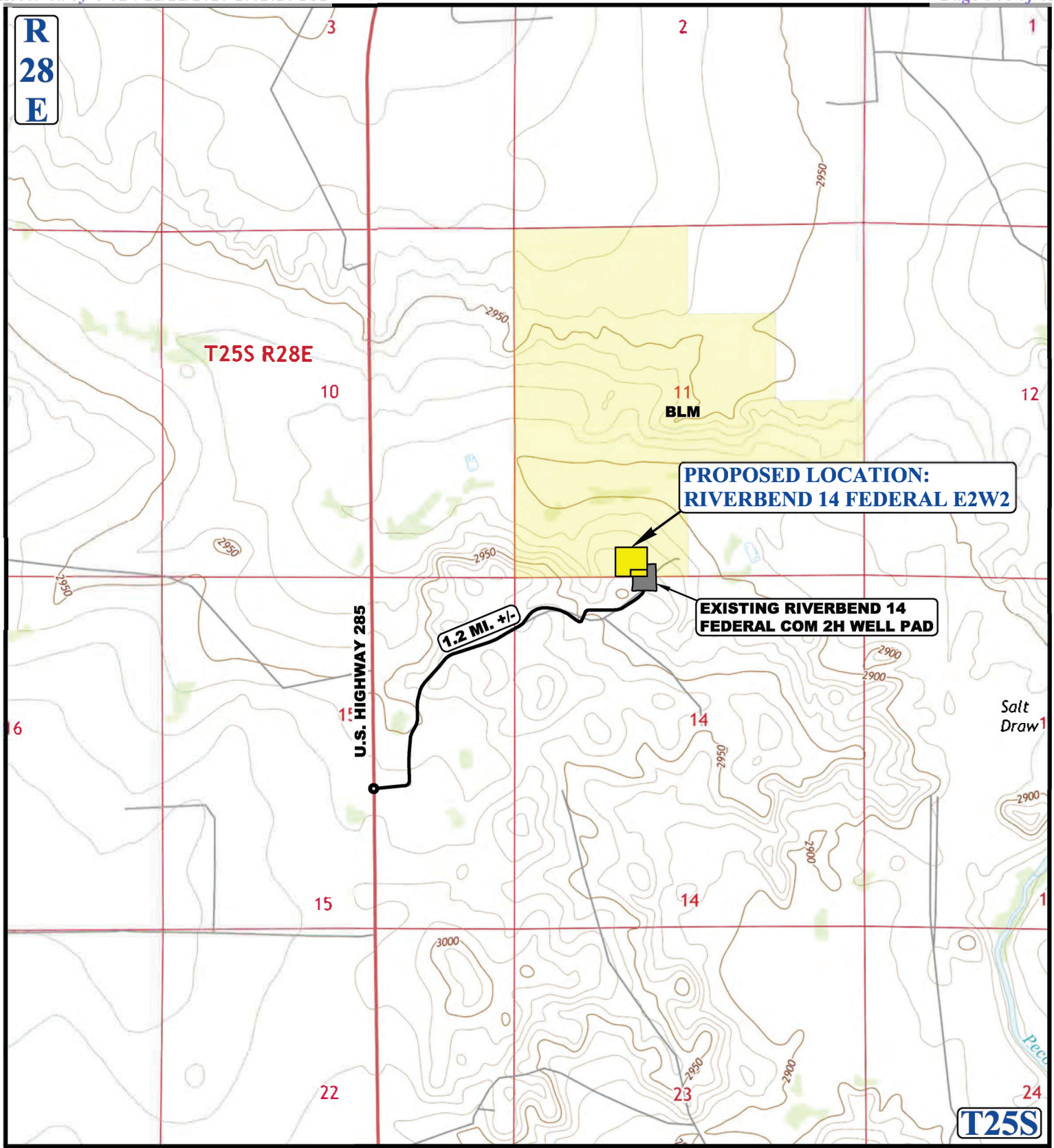
CIMARE X ENERGY CO.

RIVERBEND 14 FEDERAL E2W2
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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**

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LEGEND:

EXISTING ROAD

N

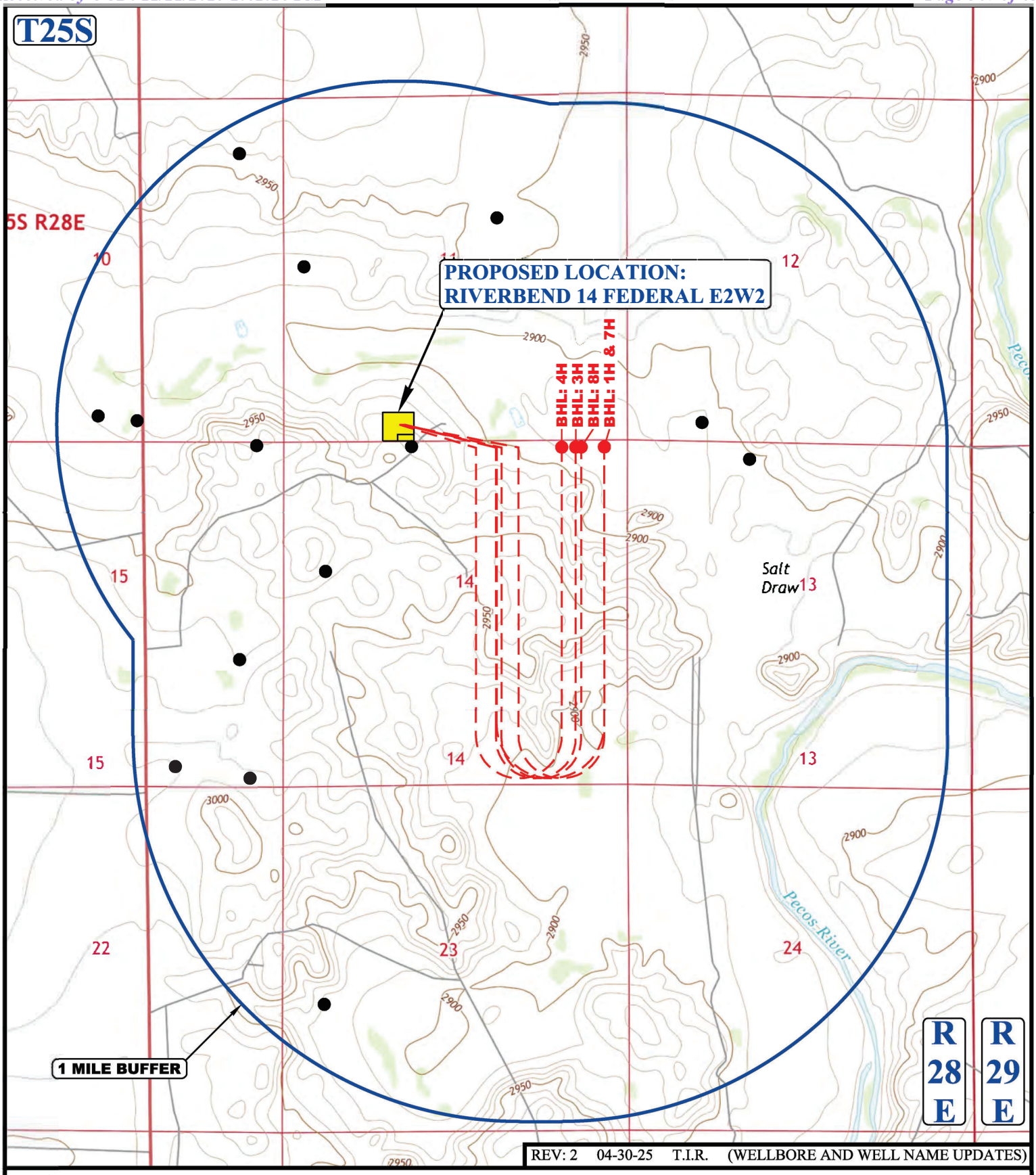
CIMAREX ENERGY CO.

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SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

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

LEGEND:

● EXISTING WELLS

N

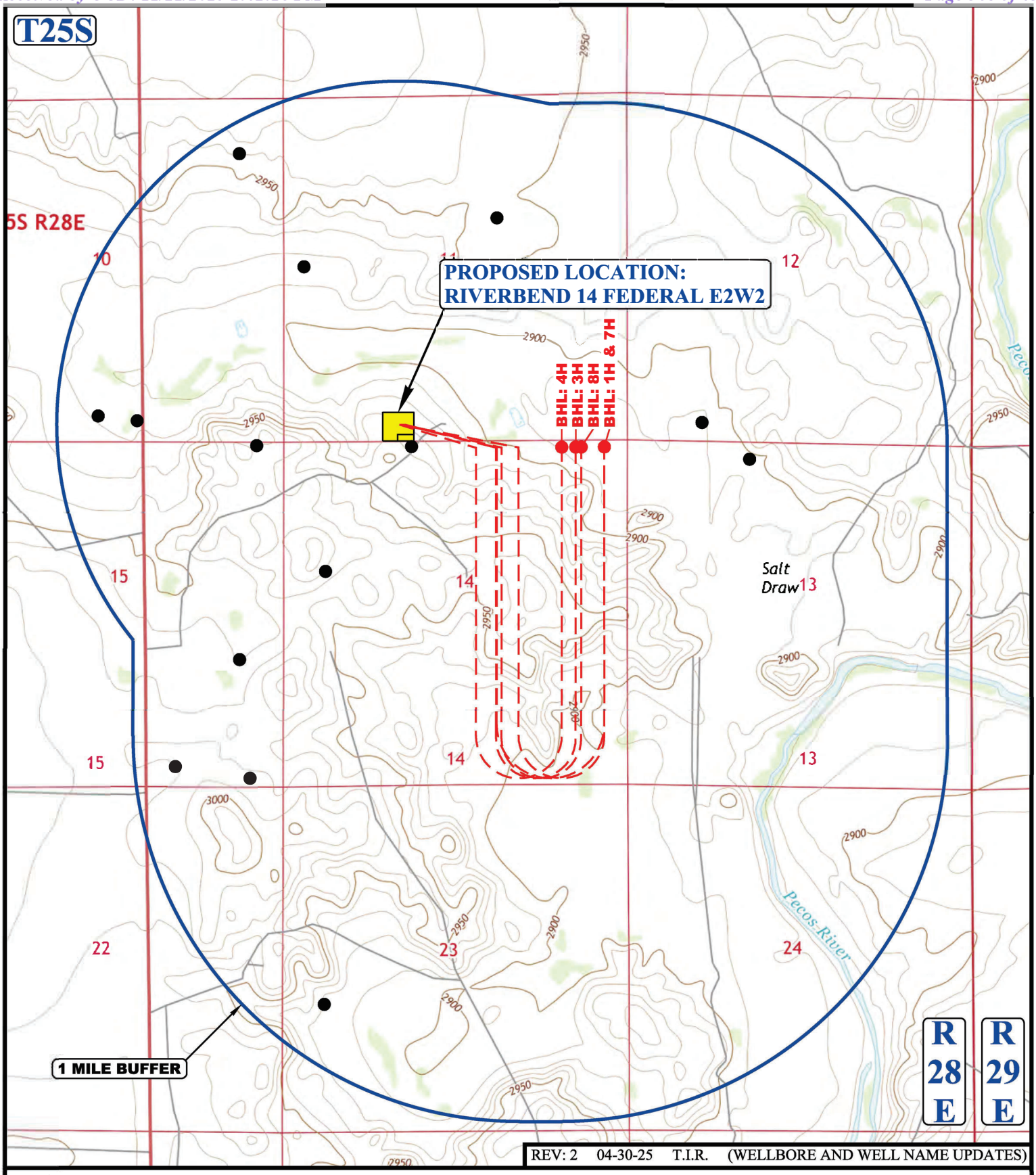
CIMARE X ENERGY CO.

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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

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

LEGEND:

● EXISTING WELLS

N

CIMARE X ENERGY CO.

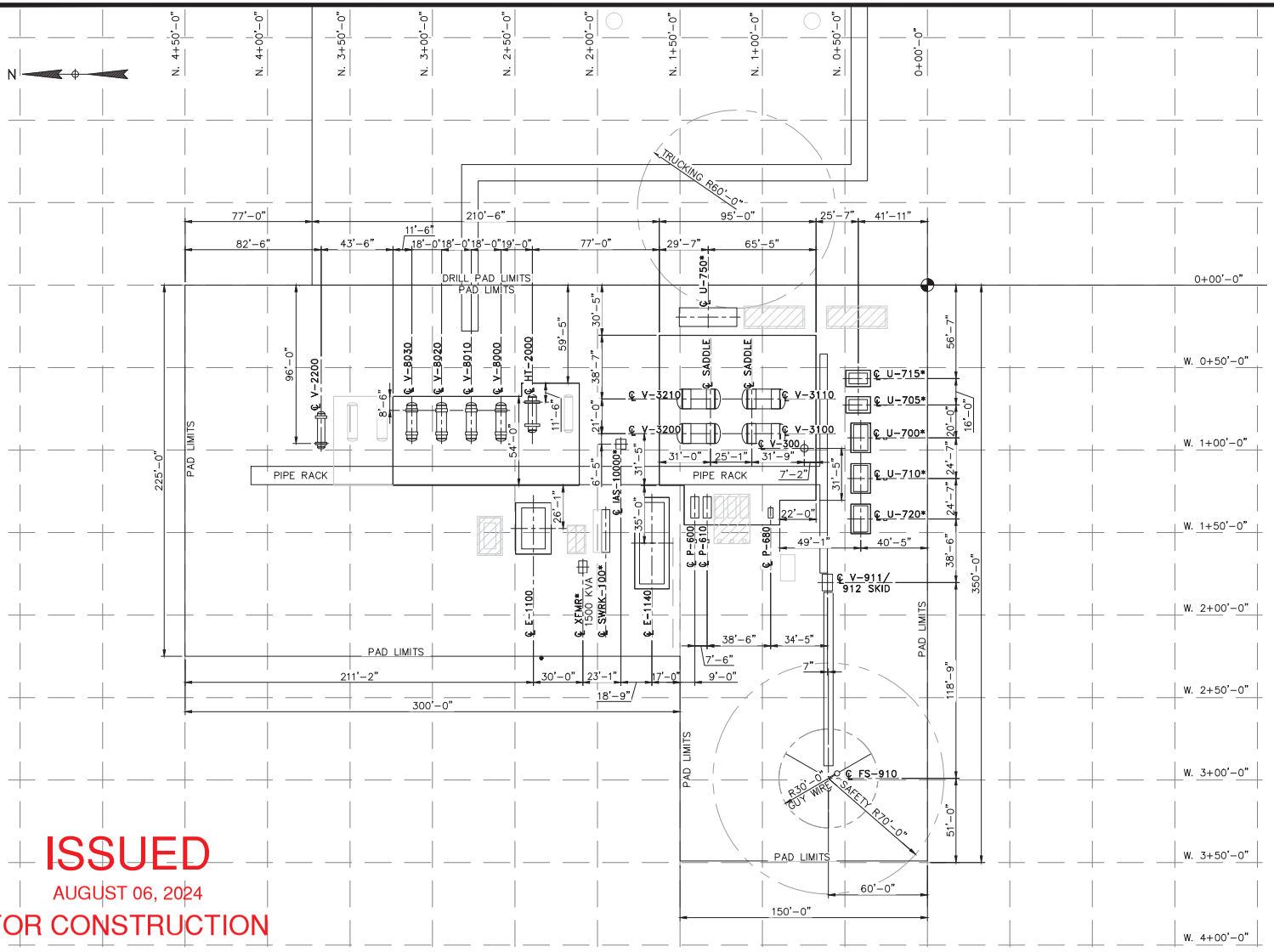
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SE 1/4 SW 1/4, SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

UINTAH ENGINEERING & LAND SURVEYING

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Vernal, UT 84078 * (435) 789-1017

Released to Imaging: 12/5/2025 11:24:01 AM
Received by OCD: 11/21/2025 2:42:16 PM



ISSUED
AUGUST 06, 2024
FOR CONSTRUCTION

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

VESSEL	WELL NAME
V-8000	TRISTE DRAW 36-25 FED COM 401H
V-8010	TRISTE DRAW 36-25 FED COM 351H
V-8020	TRISTE DRAW 36-25 FED COM 402H
V-8030	TRISTE DRAW 36-25 FED COM 352H

NOTE:
LP B4P6; SWEET;
* FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION

REFERENCE DRAWINGS	
NO.	TITLE

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

3S Engineering & Design
Midland, Texas 79705
Ph: 432-687-5611 Arlington, Texas 76011
Katy, Texas 77449
WWW.3SENGINEERINGDESIGN.COM
TBPE FIRM REG. #13809
NM FIRM REG. #4545320

NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED BUT RATHER HAS BEEN PREPARED BY 3S ENGINEERING & DESIGN, FOR USE BY THE CLIENT NAMED IN THE TITLE BLOCK SOLELY IN RESPECT OF THE CONSTRUCTION, OPERATION AND MAINTENANCE OF FACILITY NAMED IN THE TITLE BLOCK AND SHALL NOT BE USED FOR ANY OTHER PURPOSE, OR FURNISHED TO ANY OTHER PARTY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF 3S ENGINEERING & DESIGN.

ENGINEERING RECORD		
	BY	DATE
DRN:	NR	07/10/24
DES:	JAV	
CHK:		
APP:		
AFE No.		
FACILITY ENGR.	C. BOYLE	
PROJ. ENGR:	J. MEDINA	
SCALE:	NONE	

COTERRA

TRISTE DRAW 36-25 FED COM
GENERAL ARRANGEMENT PLOT PLAN
LEA COUNTY

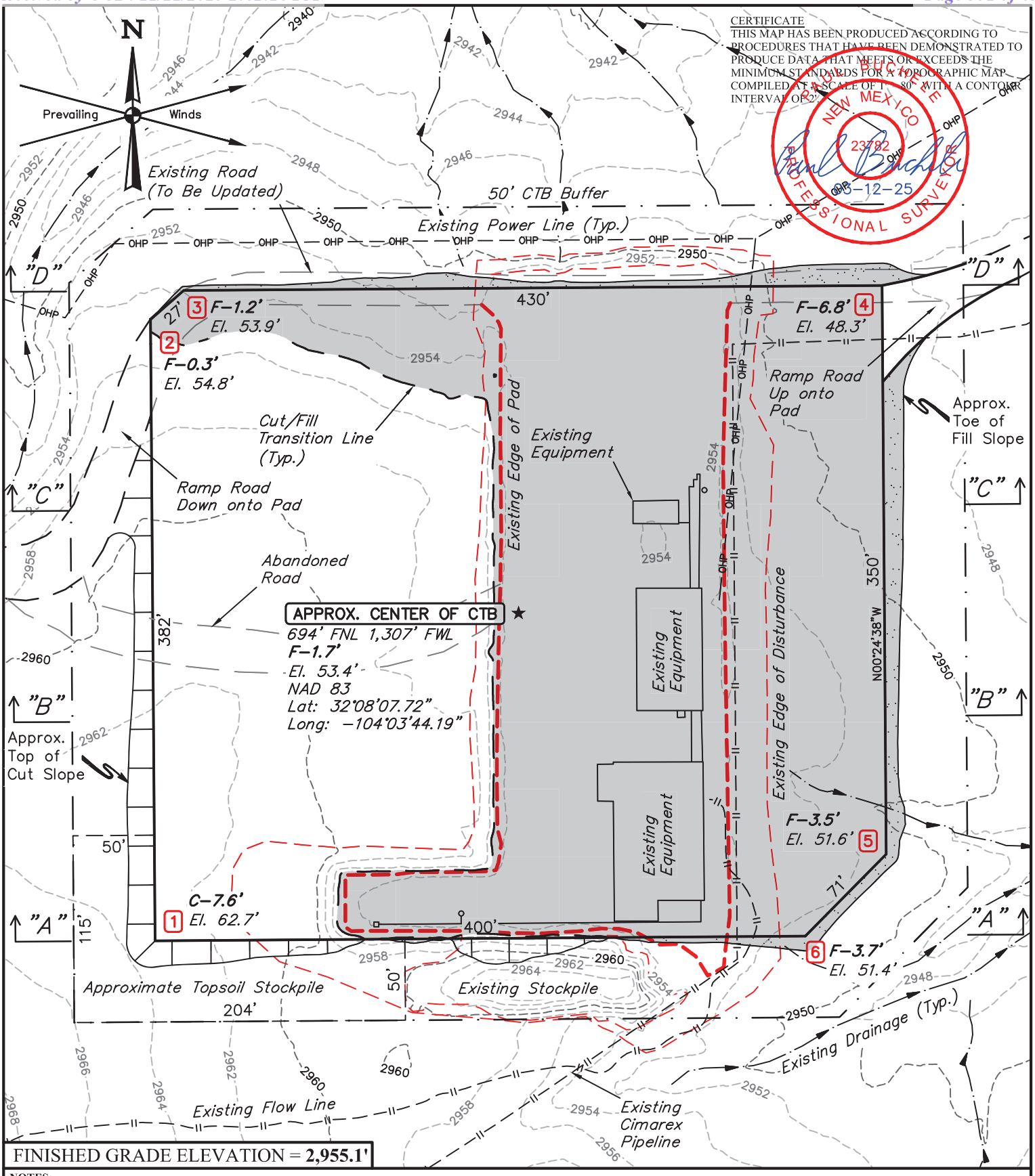
PLOT SCALE	NONE	DWG. NO.	REV
CAD NO.		D-24550-20-100	

Q:\01_Coterra\24550 - Triste Draw CTB\2. Eng., Design\2.3 Piping, Mech\2.3.2 Plot Plans\D-24550-20-100.dwg 20240805.101118

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

DATE:	DESCRIPTION:
3/19/2025	FINAL PLAT PACKAGE

UINTAH
ENGINEERING & LAND SURVEYING



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

BRUCE D. BOYER 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)

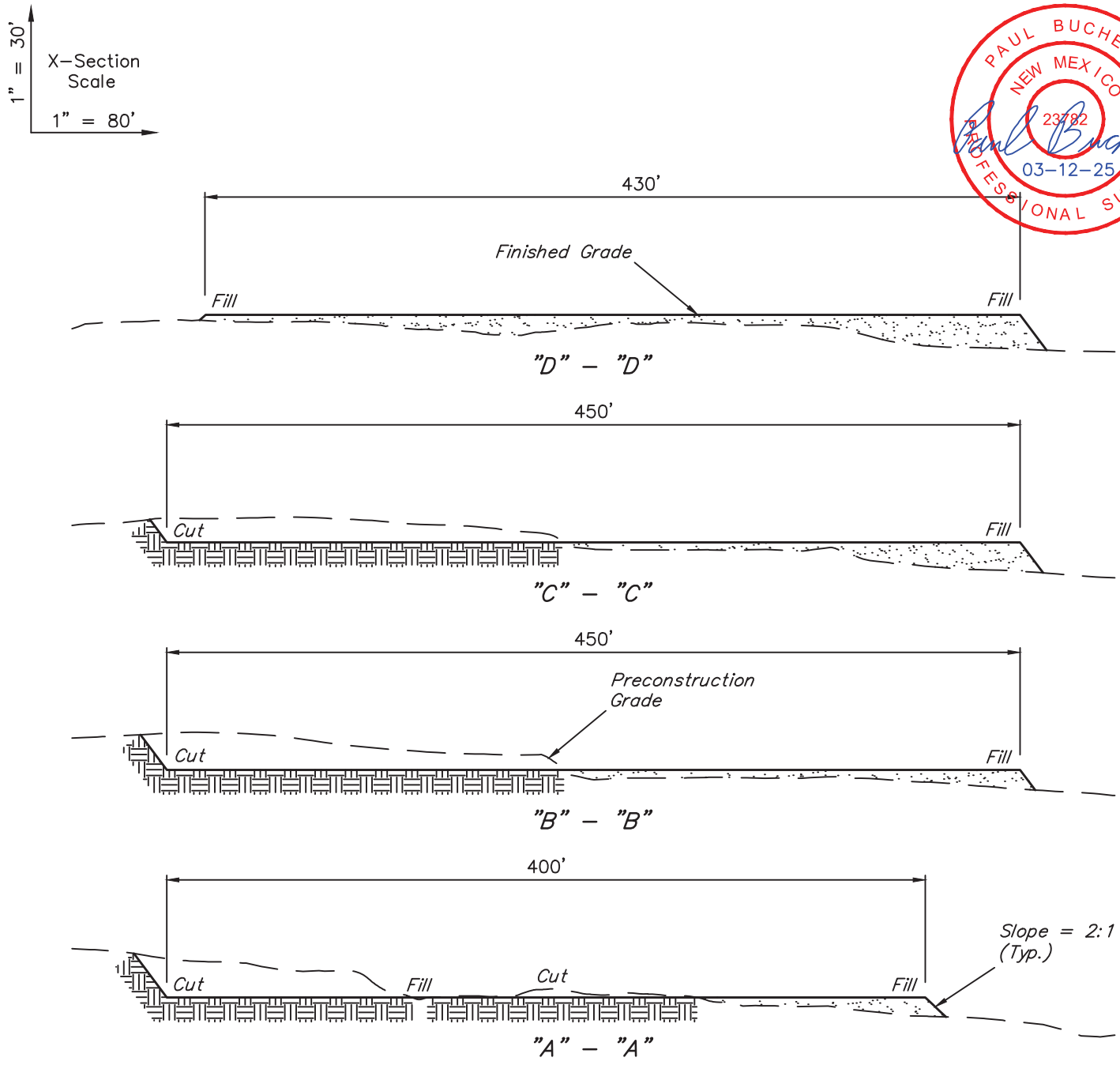
CIMAREX ENERGY CO.

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.

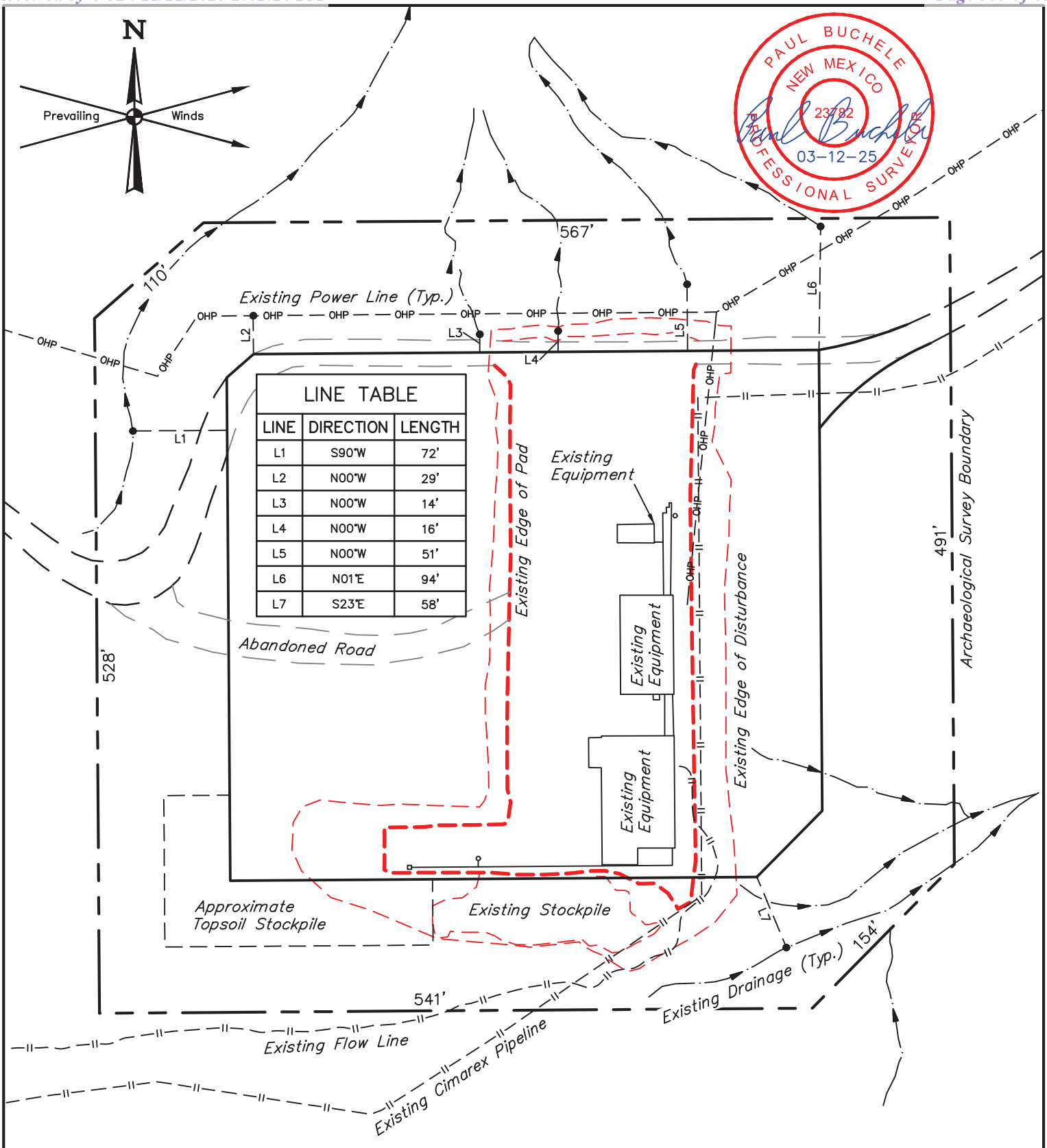
CIMAREX ENERGY CO.

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:

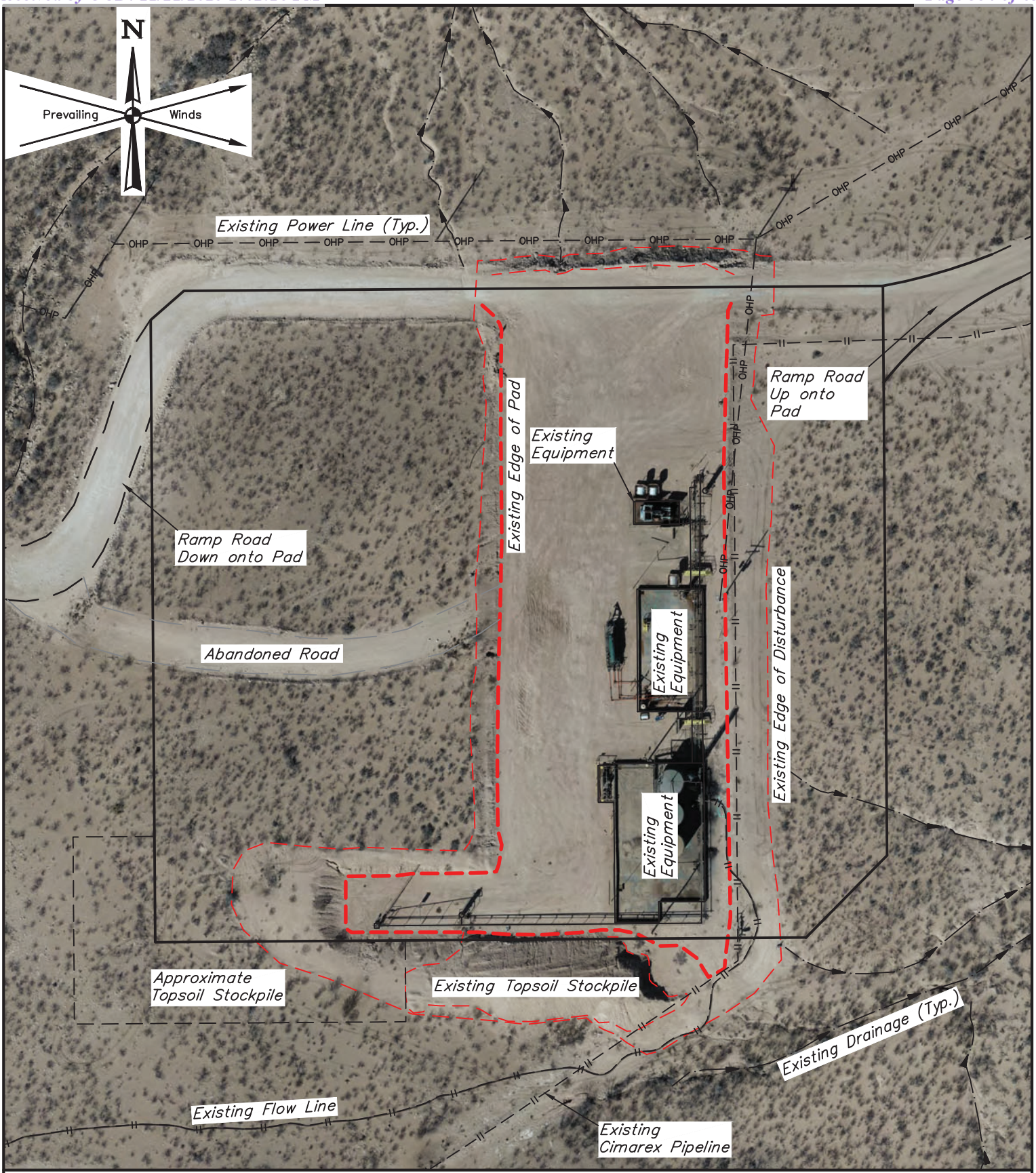
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

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.

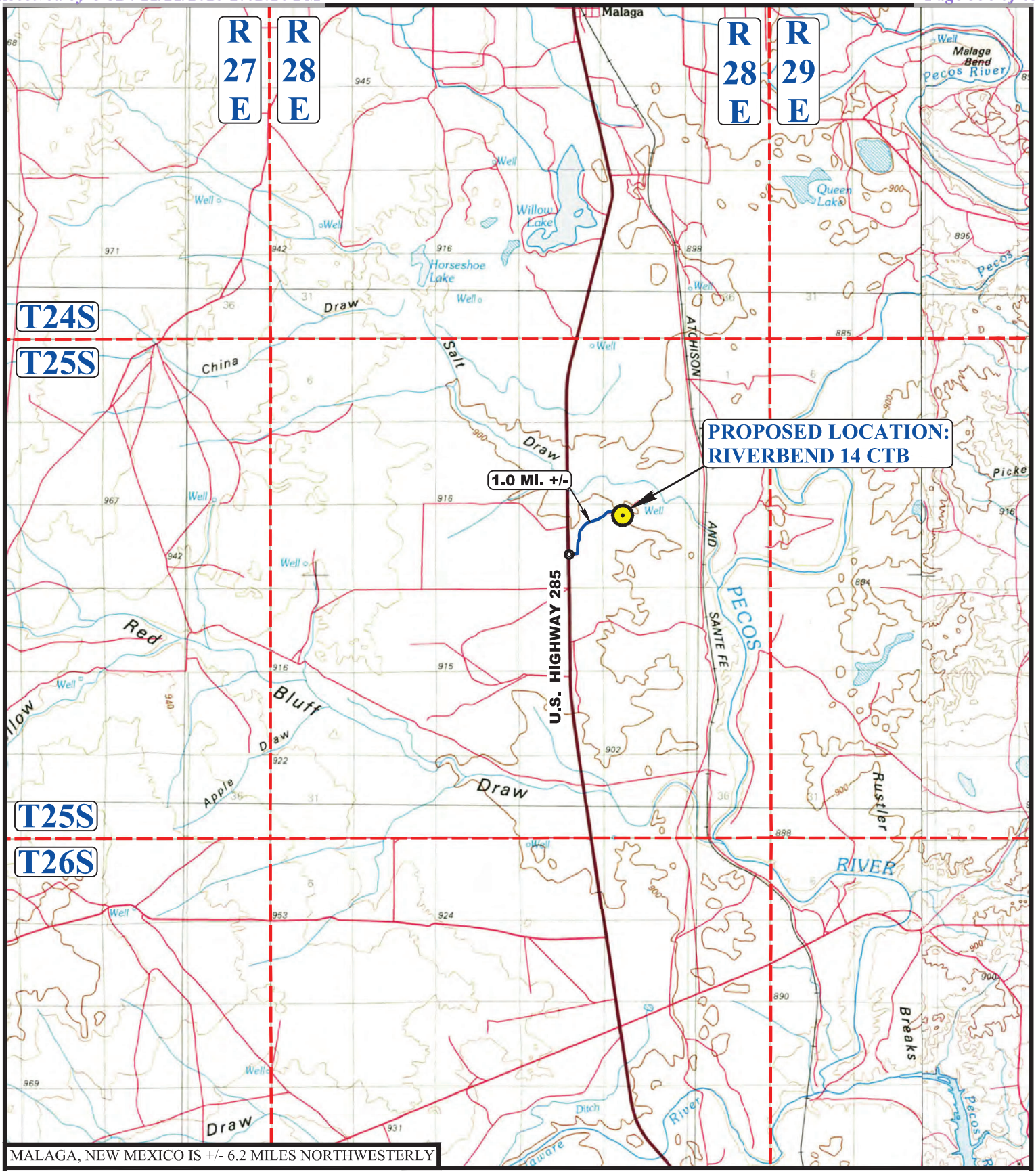
CIMAREX ENERGY CO.

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
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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.

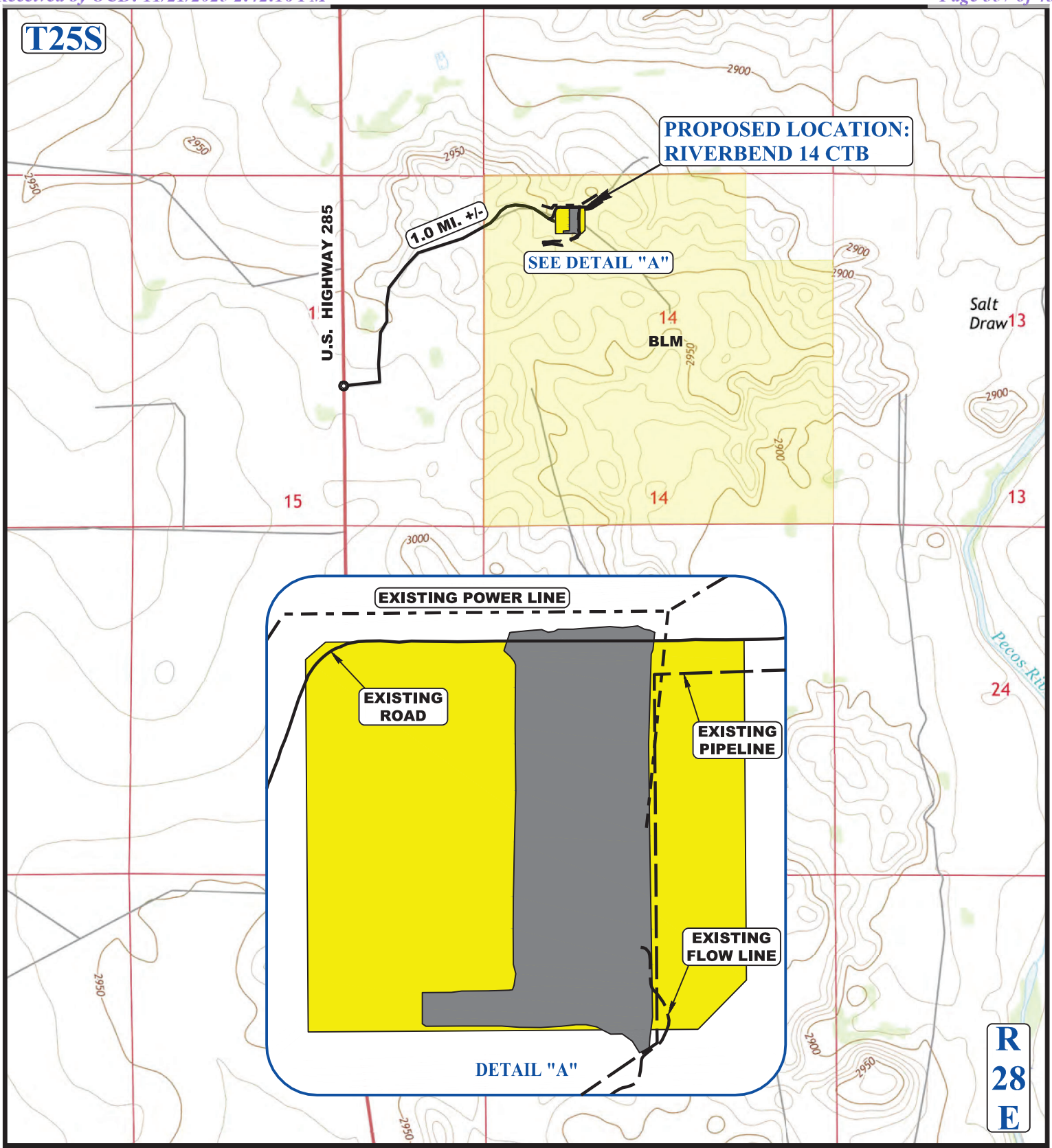
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

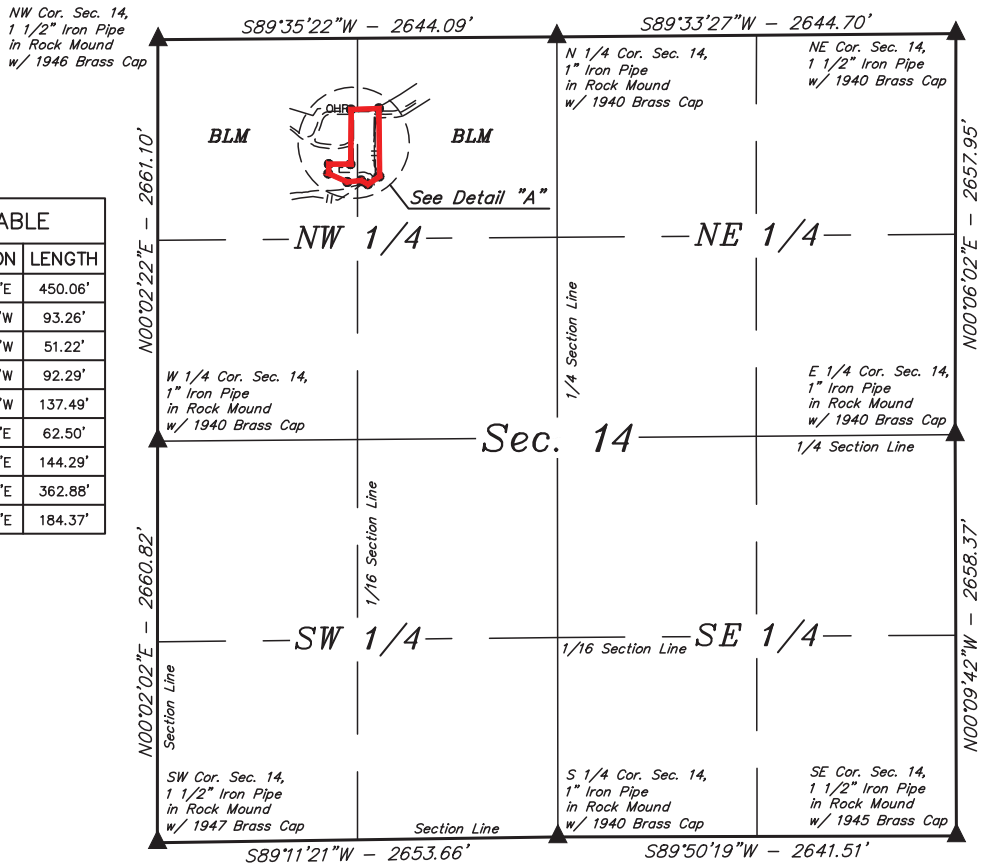
CIMAREX ENERGY CO.

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

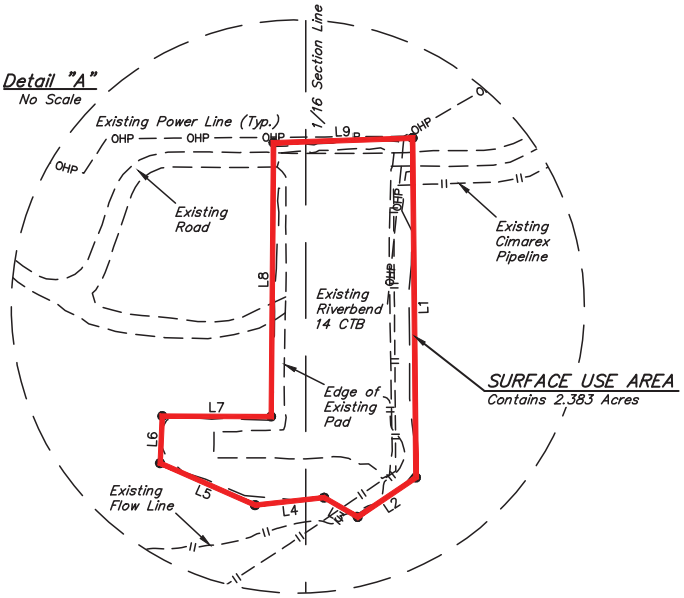


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

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

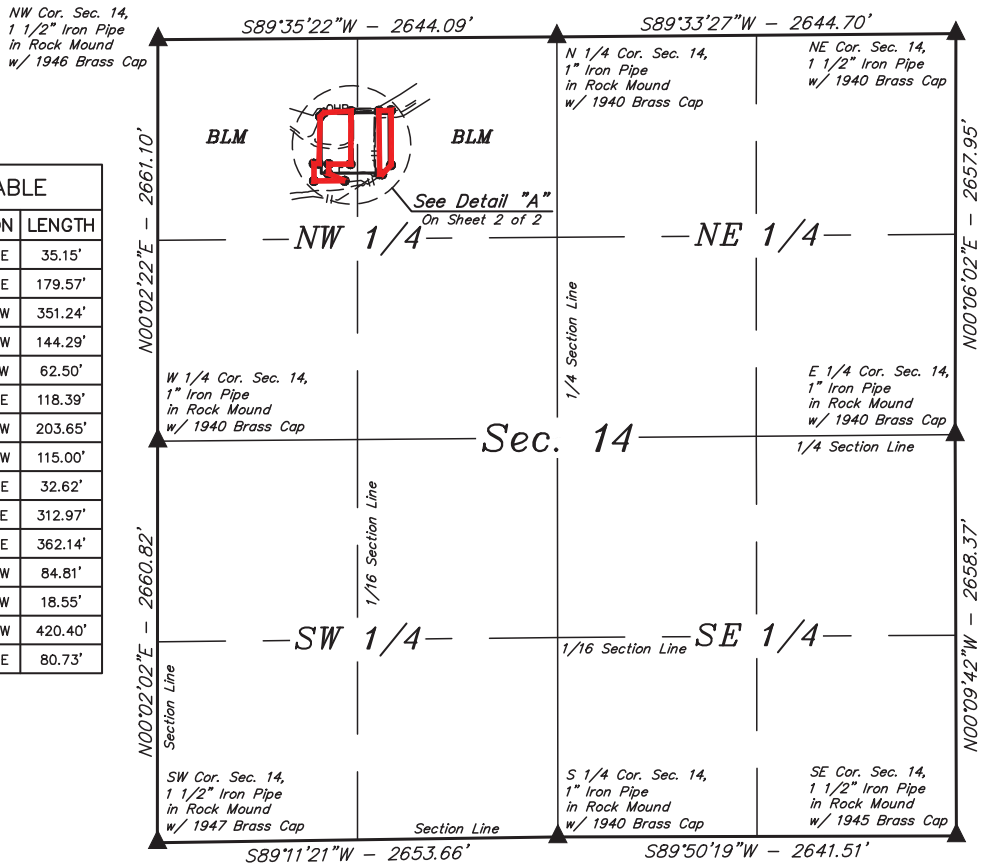
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

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.

STATE OF NEW MEXICO 23782 FRANK BUCHELO 03-12-25 PROFESSIONAL SURVEYOR

Sheet 1 of 2

NOTES:

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

N

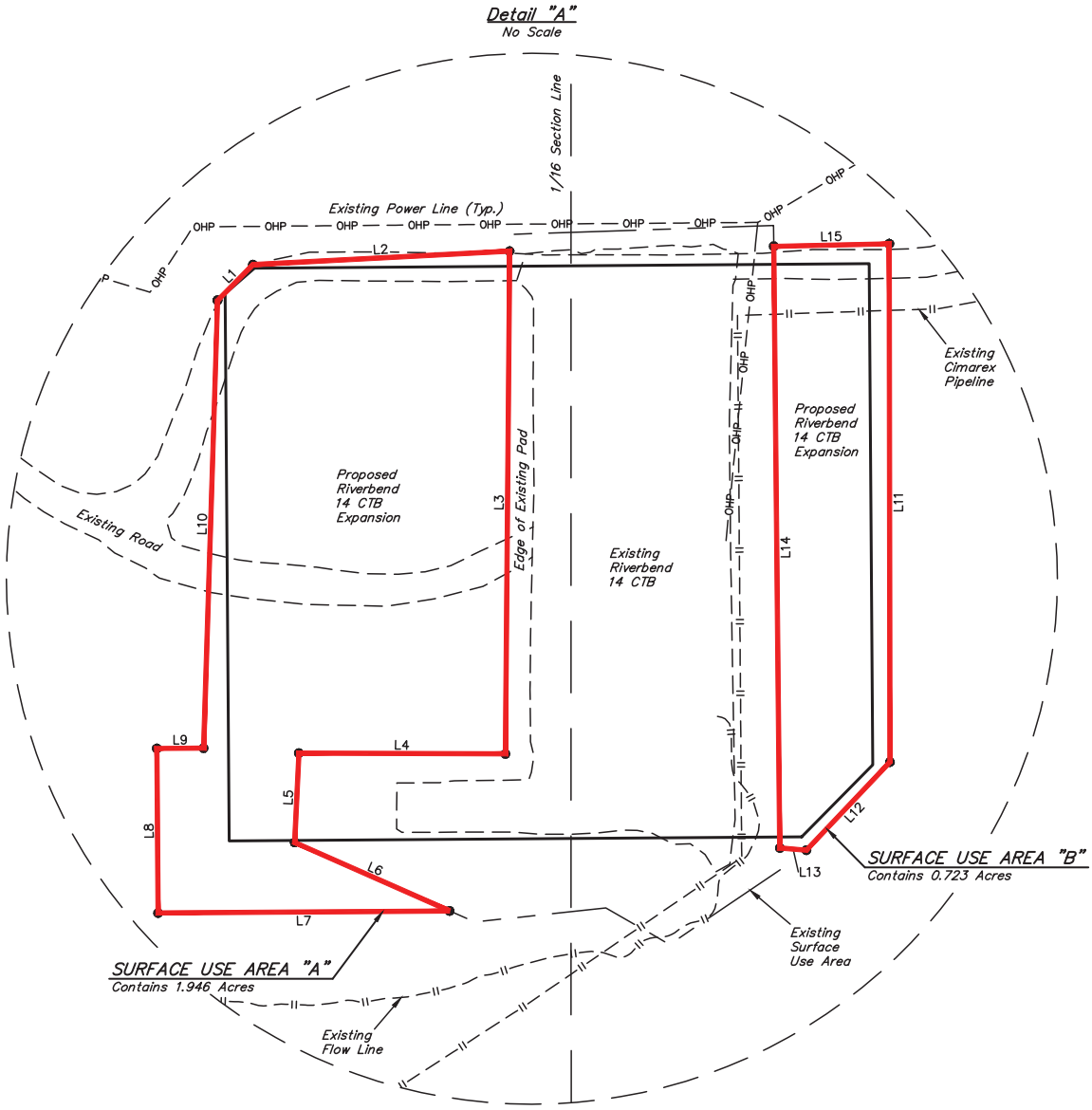
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 1000'
FILE	C-7901-A1		
EXPANSION SURFACE USE AREA			EXHIBIT F

UINTAH ENGINEERING & LAND SURVEYING

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



CERTIFICATE

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 2 of 2

NOTES:

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

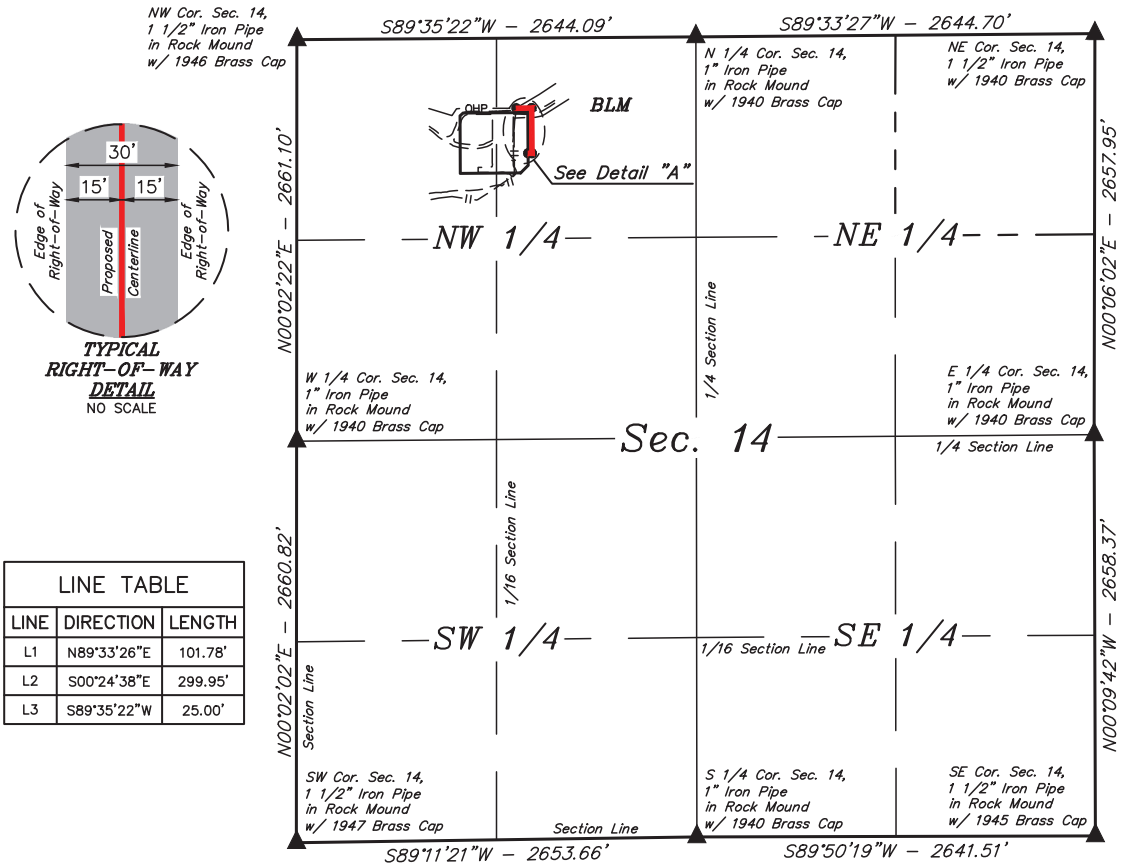
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CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		
EXPANSION SURFACE USE AREA			EXHIBIT F

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



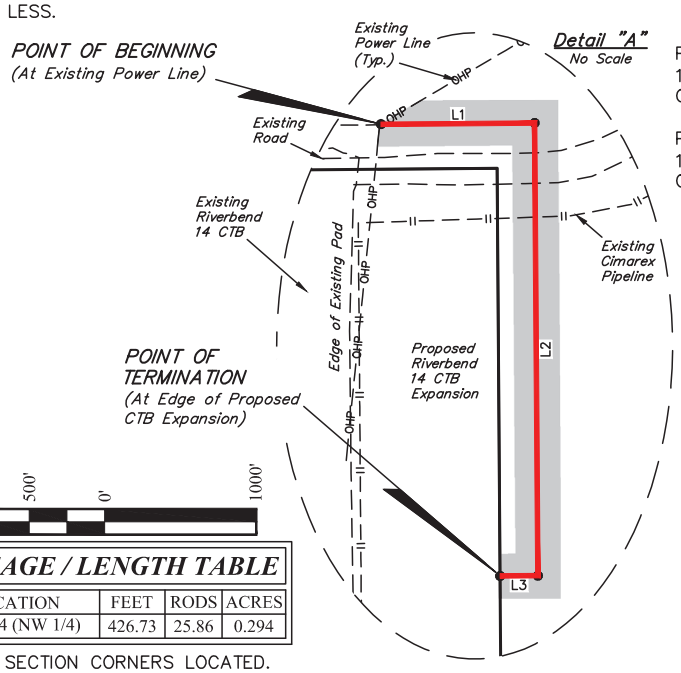
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

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

POWER LINE RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 299.95'; THENCE S89°35'22"W 25.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.294 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S68°20'04"W 1281.05' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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

▲ = SECTION CORNERS LOCATED.

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

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

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

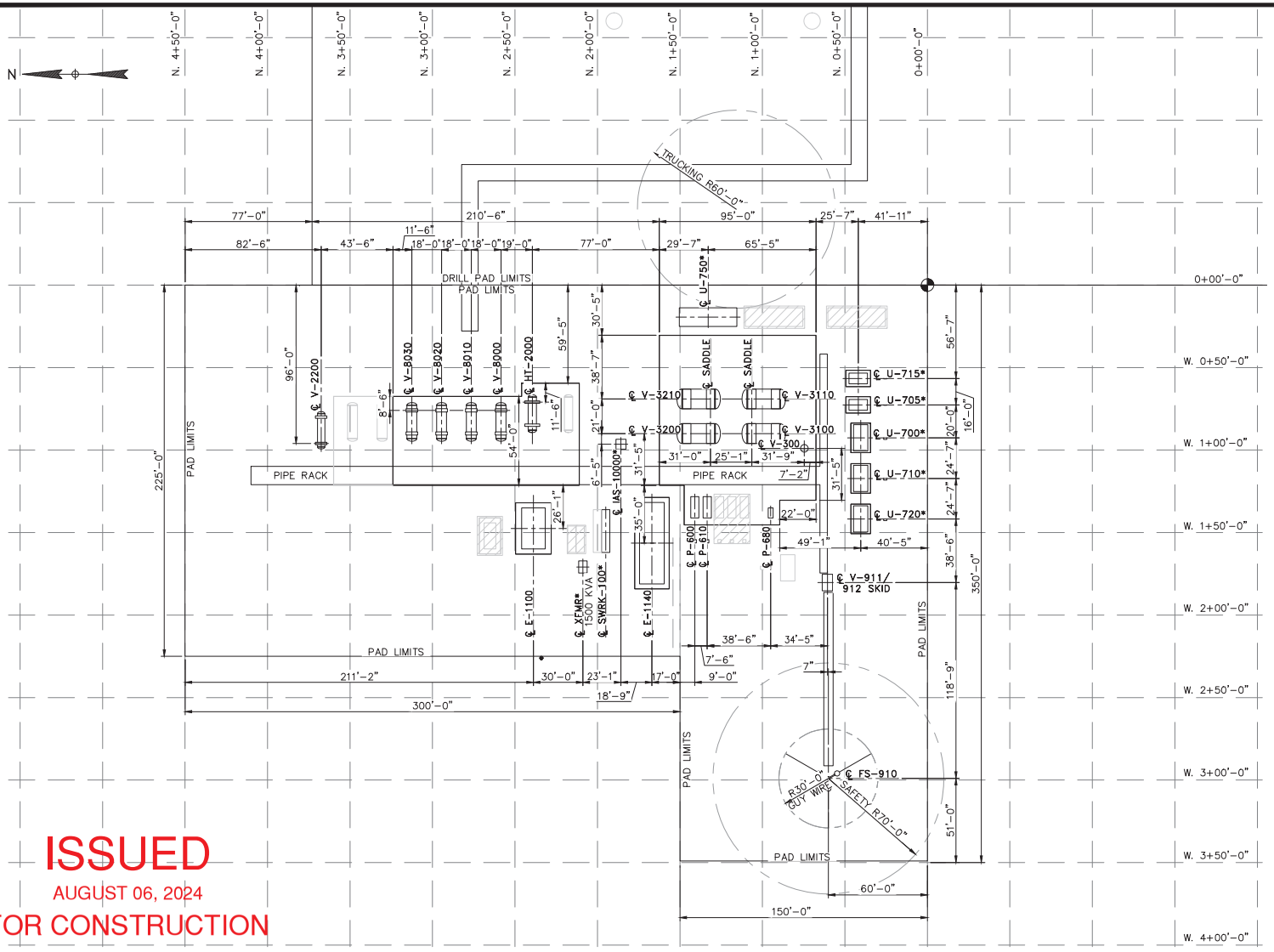
CIMAREX ENERGY CO.

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

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

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

Released to Imaging: 12/5/2025 11:24:01 AM
Received by OCD: 11/21/2025 2:42:16 PM



EQUIPMENT		
TAG	DESCRIPTION	H
V-300	VAPOR RECOVERY TOWER 36" OD x 40' S/S	
P-600	SKIDDED TRANSFER PUMP	10
P-610	SKIDDED TRANSFER PUMP	10
P-680	PCP RECIRCULATION PUMP	5
U-700	FX12V125	12
U-705	G10	10
U-710	FX17V150	15
U-715	G10	10
U-720	FX17V150	15
U-750	PIPELINE W/ BOOSTER	21
FS-910	TRIPOD 3.0/1.5 MMSCFD DUAL FLARE STACK	20
V-911/912	FS-910 DUAL SCRUBBER SKID	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

DWG. NO. D-24550-20-100

REV.

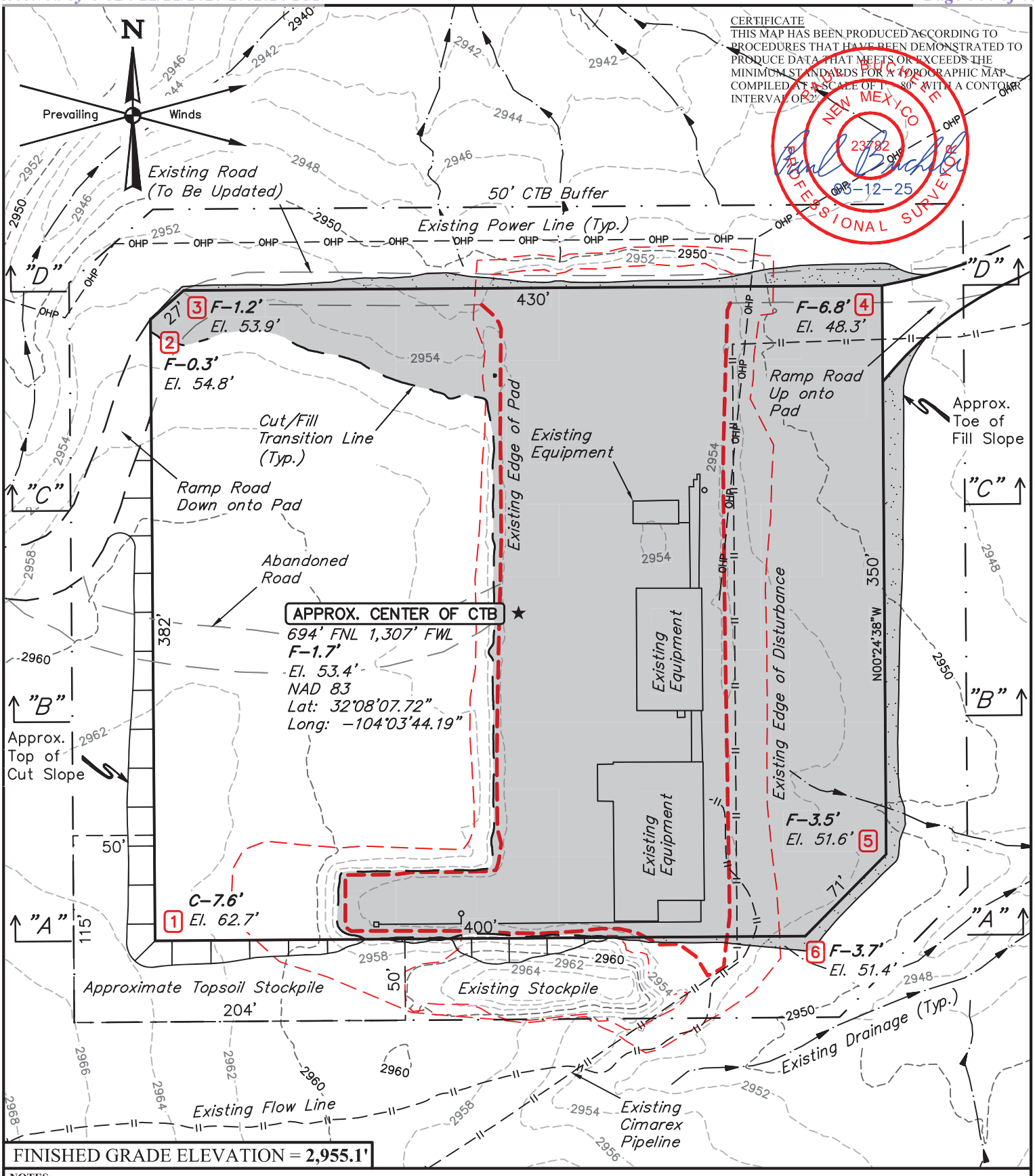
CAD NO.

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)

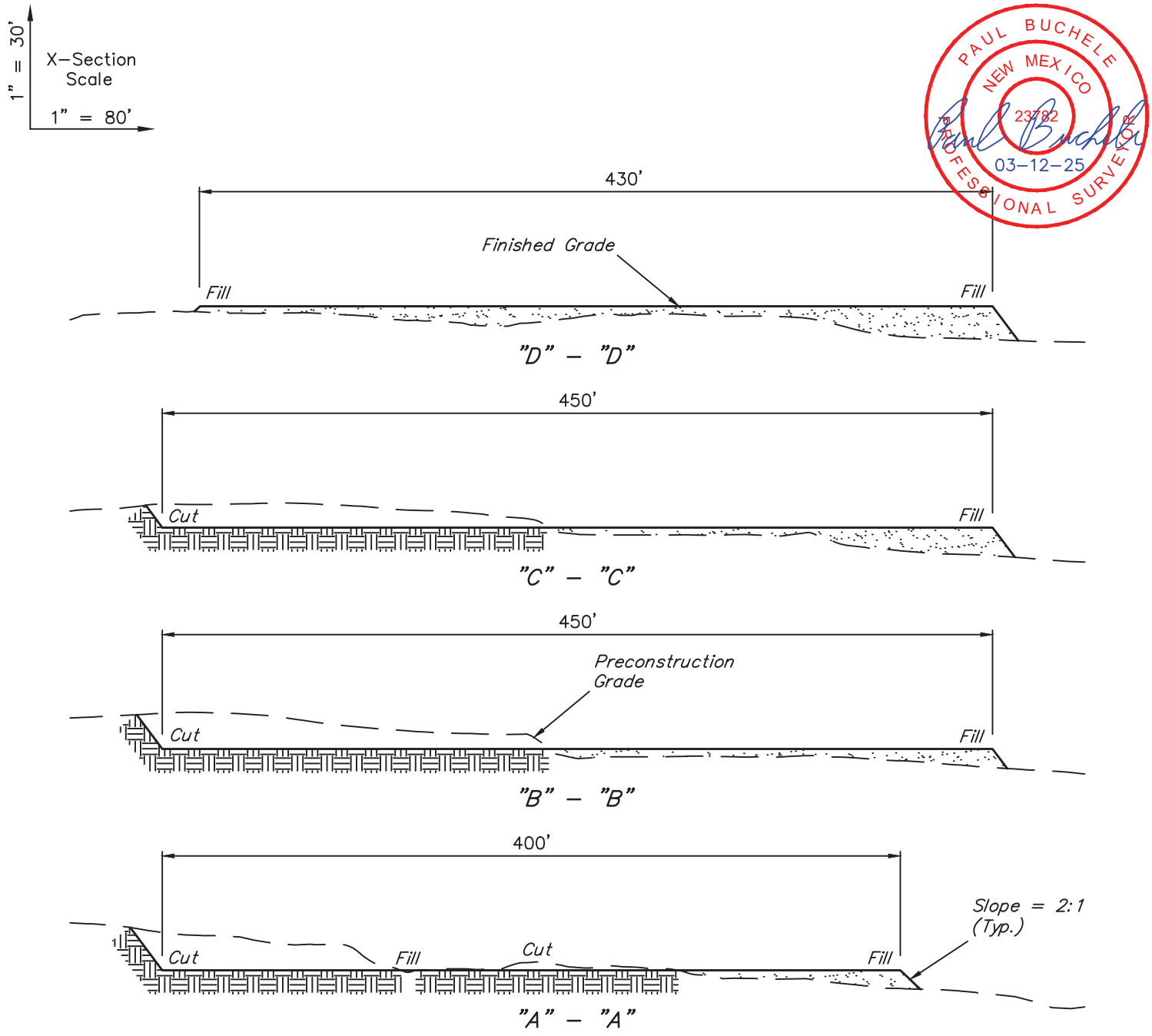
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

UINTAH ENGINEERING & LAND SURVEYING

CIMAREX ENERGY CO.

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

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



PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
03-12-25

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	1,300 Cu. Yds.
REMAINING LOCATION	10,920 Cu. Yds.
TOTAL CUT	**12,220 Cu. Yds.**
FILL	**10,920 Cu. Yds.**
EXCESS MATERIAL	1,300 Cu. Yds.
TOPSOIL	1,300 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
EXISTING PAD DISTURBANCE	NA	±2.383
PROPOSED EXPANSION DISTURBANCE (NEW CONSTRUCTION ONLY)	NA	±2.669
30' WIDE POWER LINE R-O-W DISTURBANCE	±426.73'	±0.294
TOTAL SURFACE USE AREA		**±5.346**

NOTES:

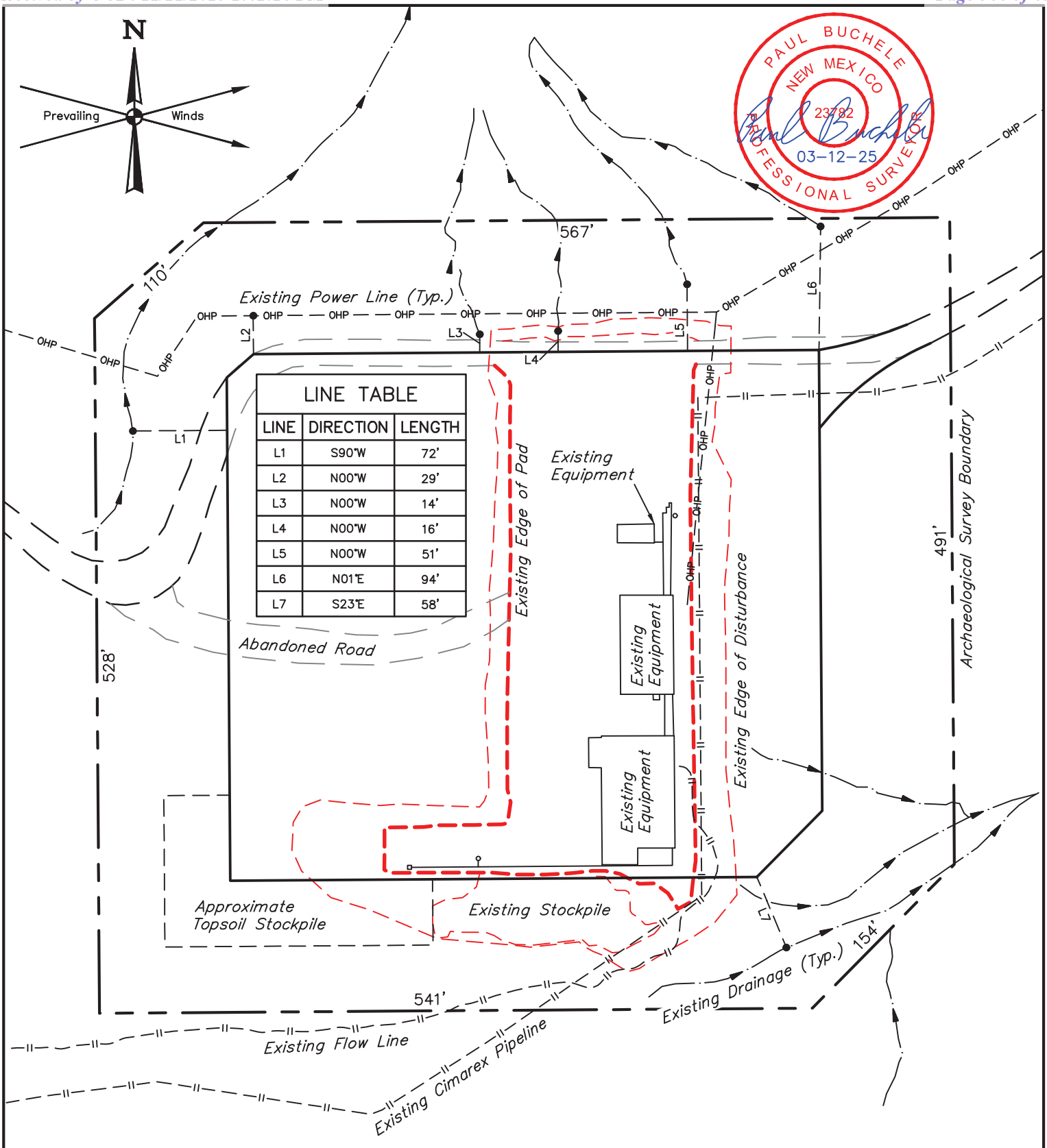
- Fill quantity includes 5% for compaction.

CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	**SCALE**
DRAWN BY	N.R.	03-12-25	AS SHOWN
TYPICAL CROSS SECTIONS			**EXHIBIT F**

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



NOTES:

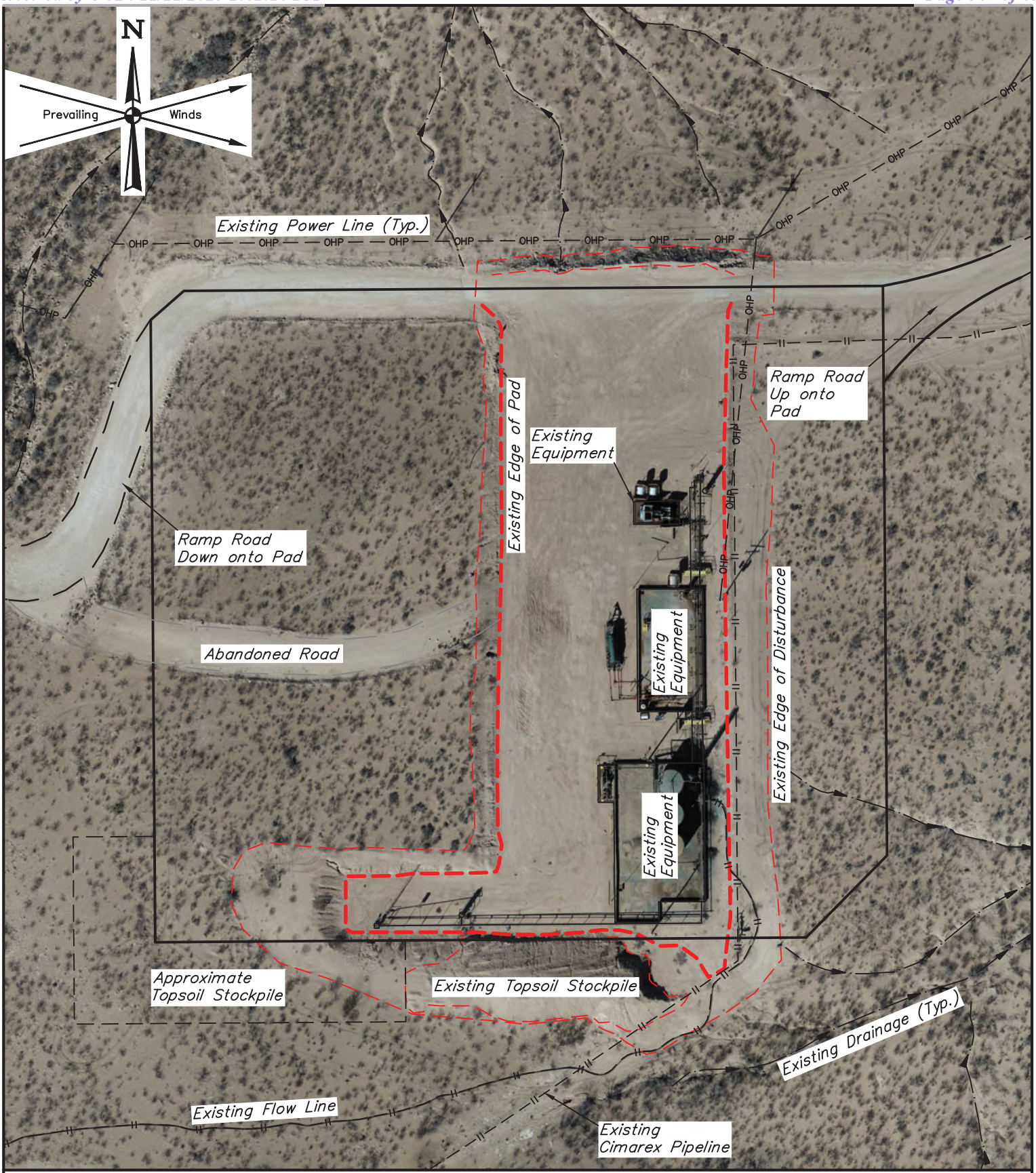
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT F

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



NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

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

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

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.0 MILE TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.0 MILES.

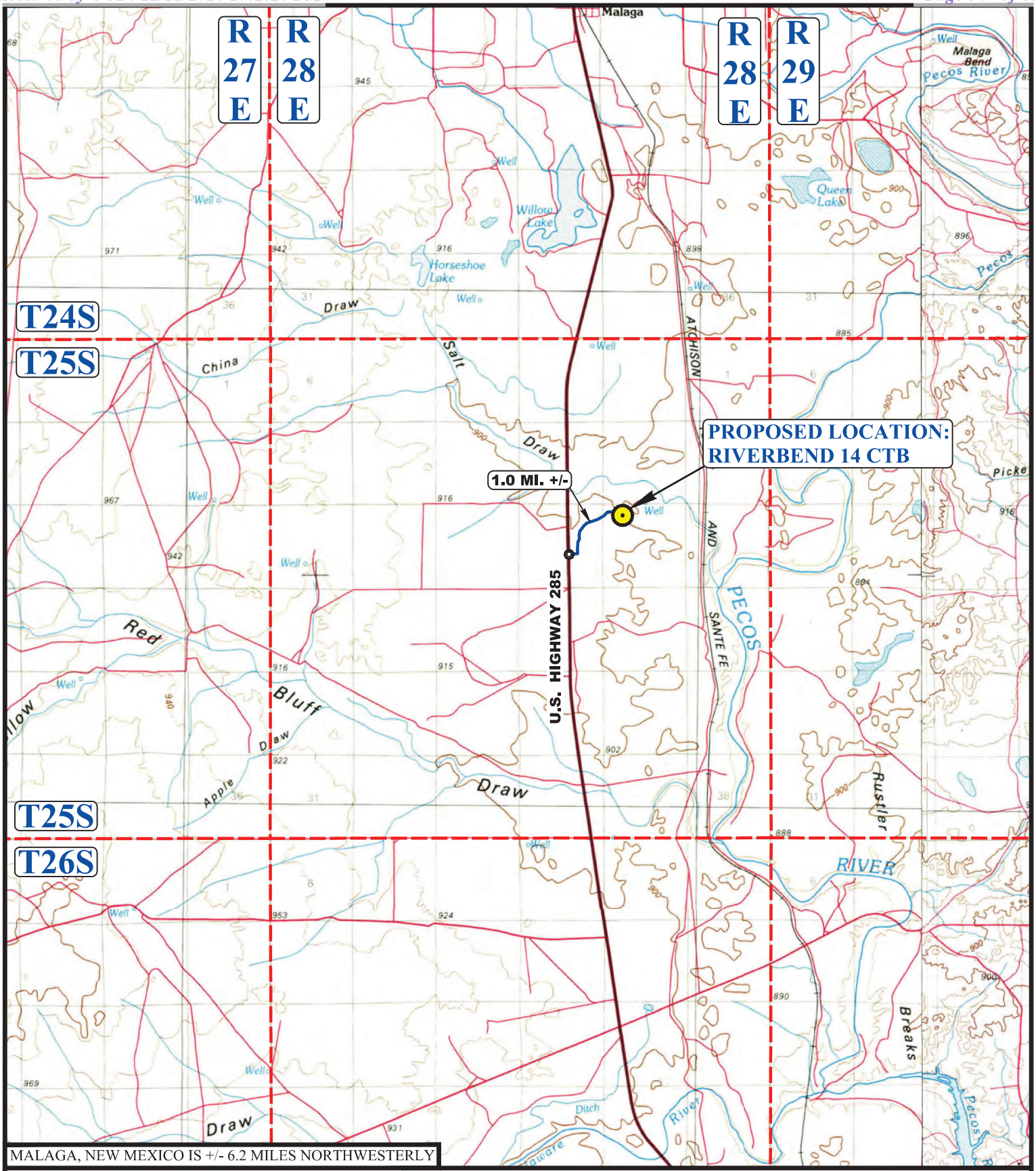
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	

ROAD DESCRIPTION **EXHIBIT F**

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



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

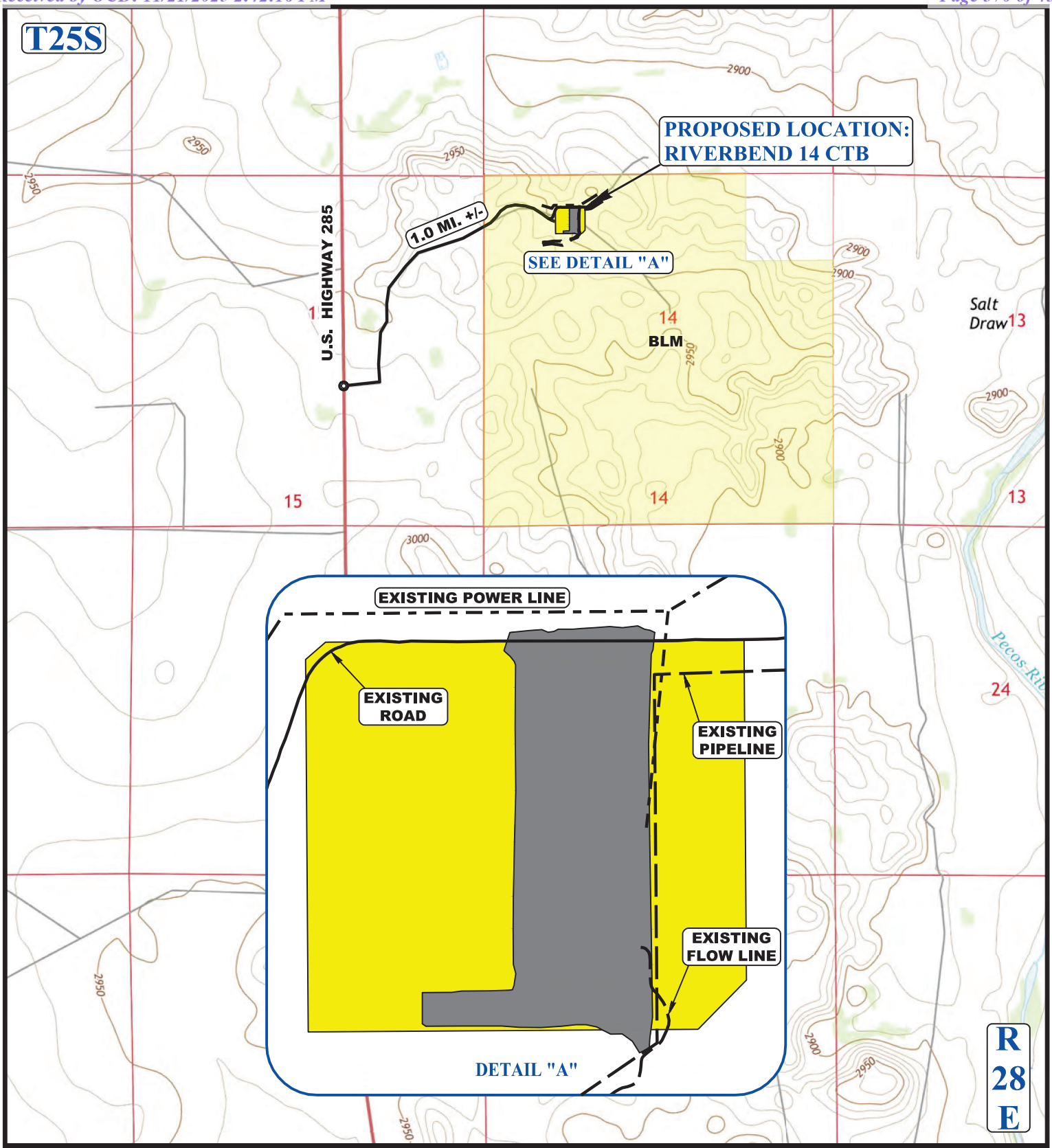
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE/FLOW LINE

N

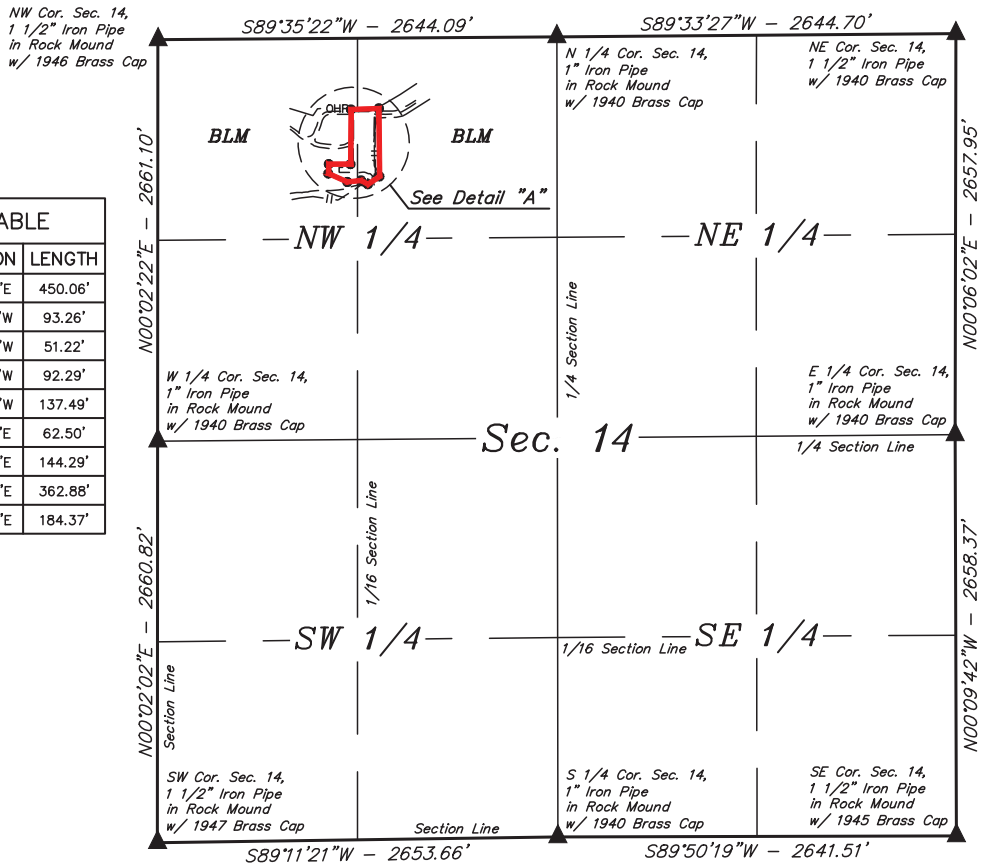
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 24,000

NEW ROAD MAP **EXHIBIT F**

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

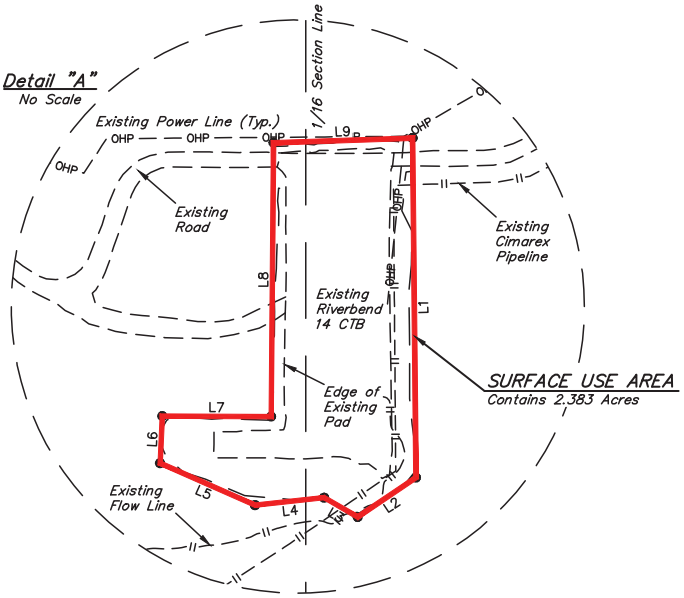


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

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





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

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

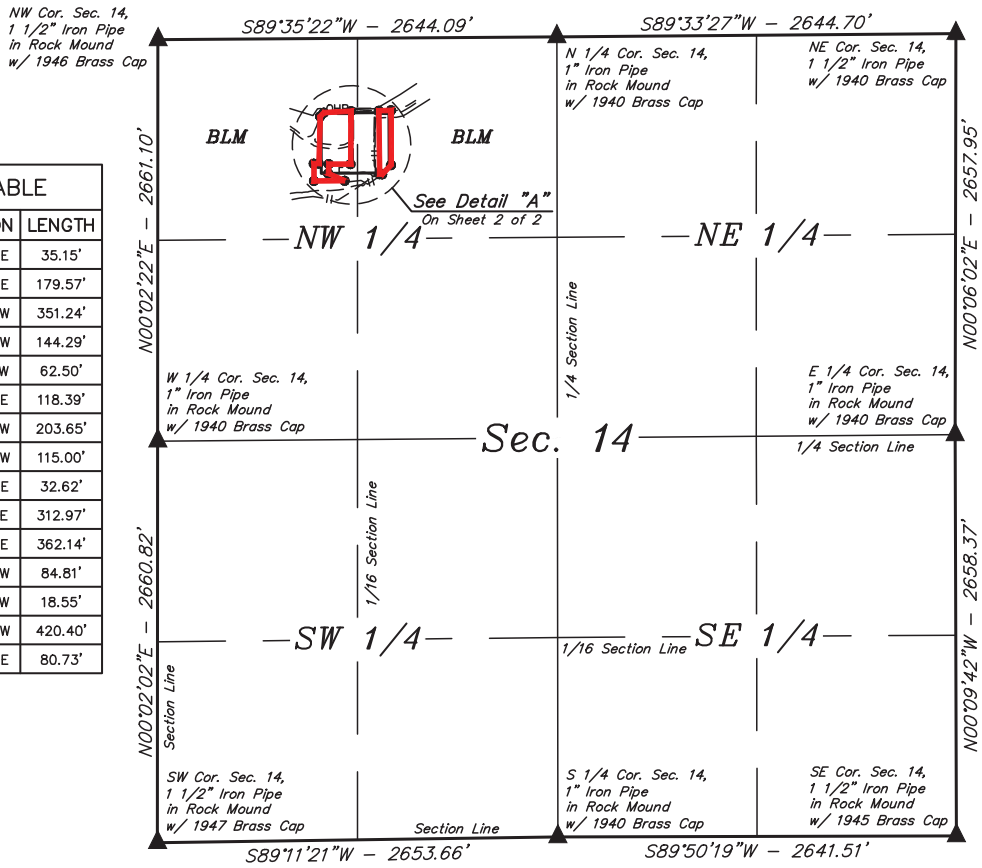
CIMAREX ENERGY CO.

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

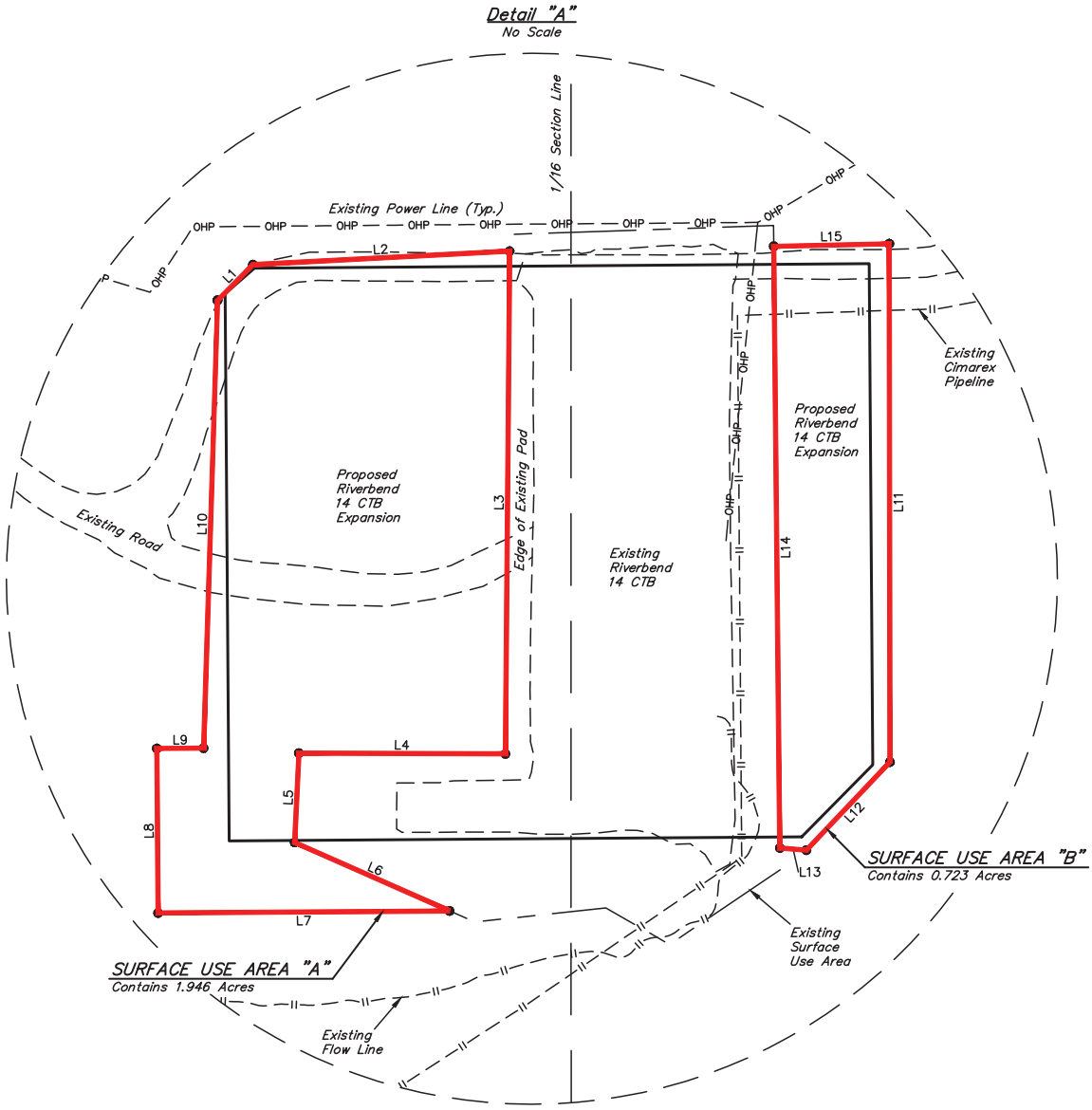
CIMAREX ENERGY CO.

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)

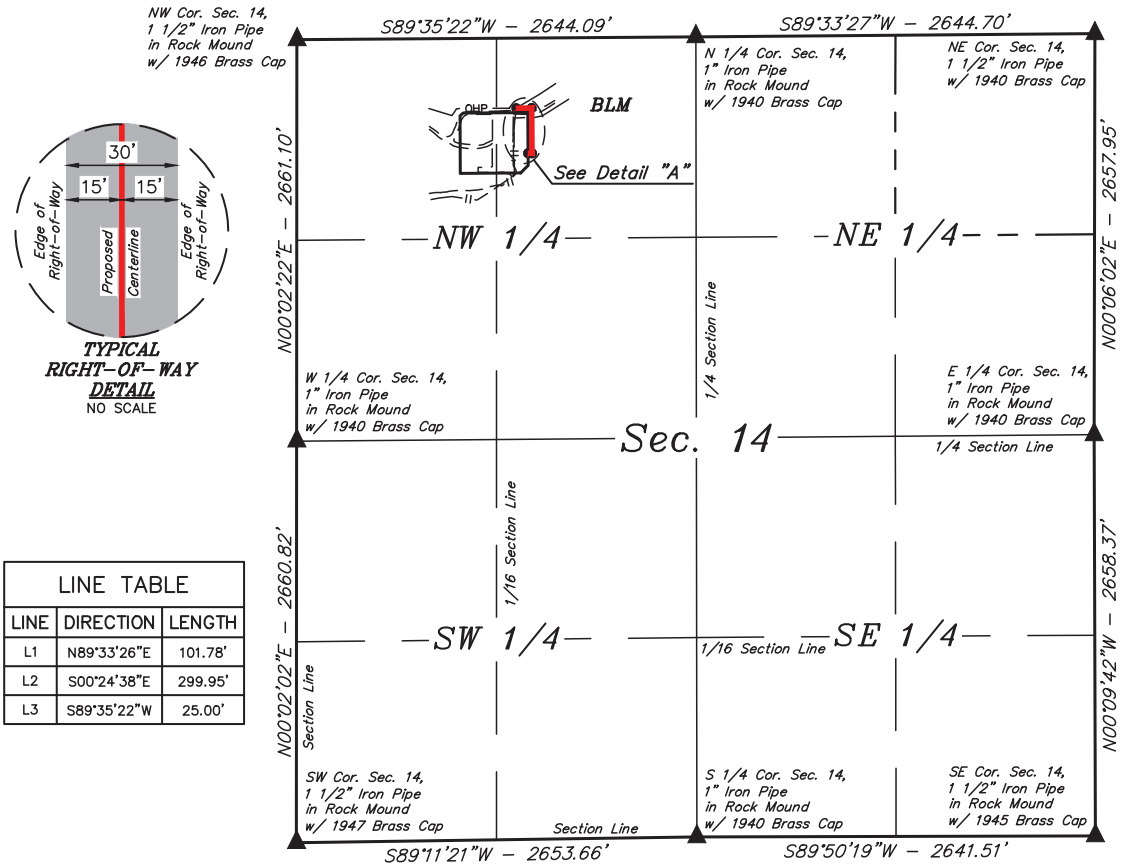
N

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	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



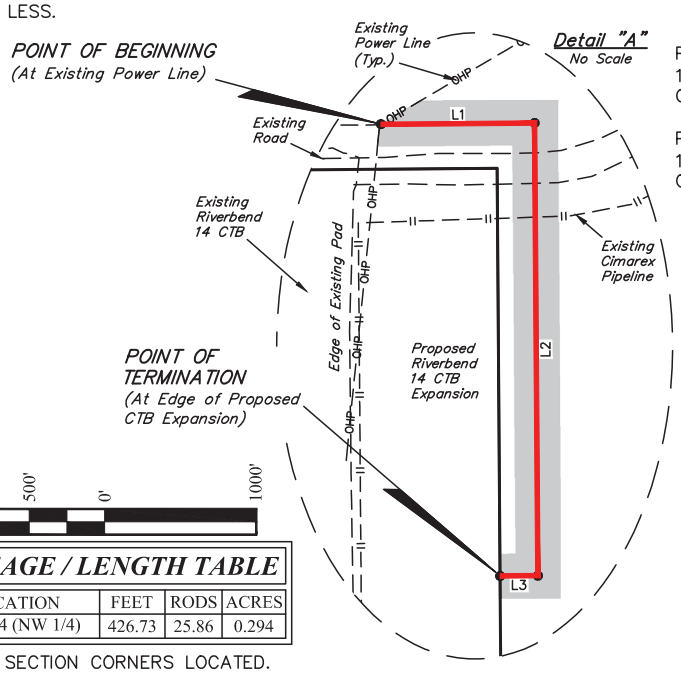
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

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.

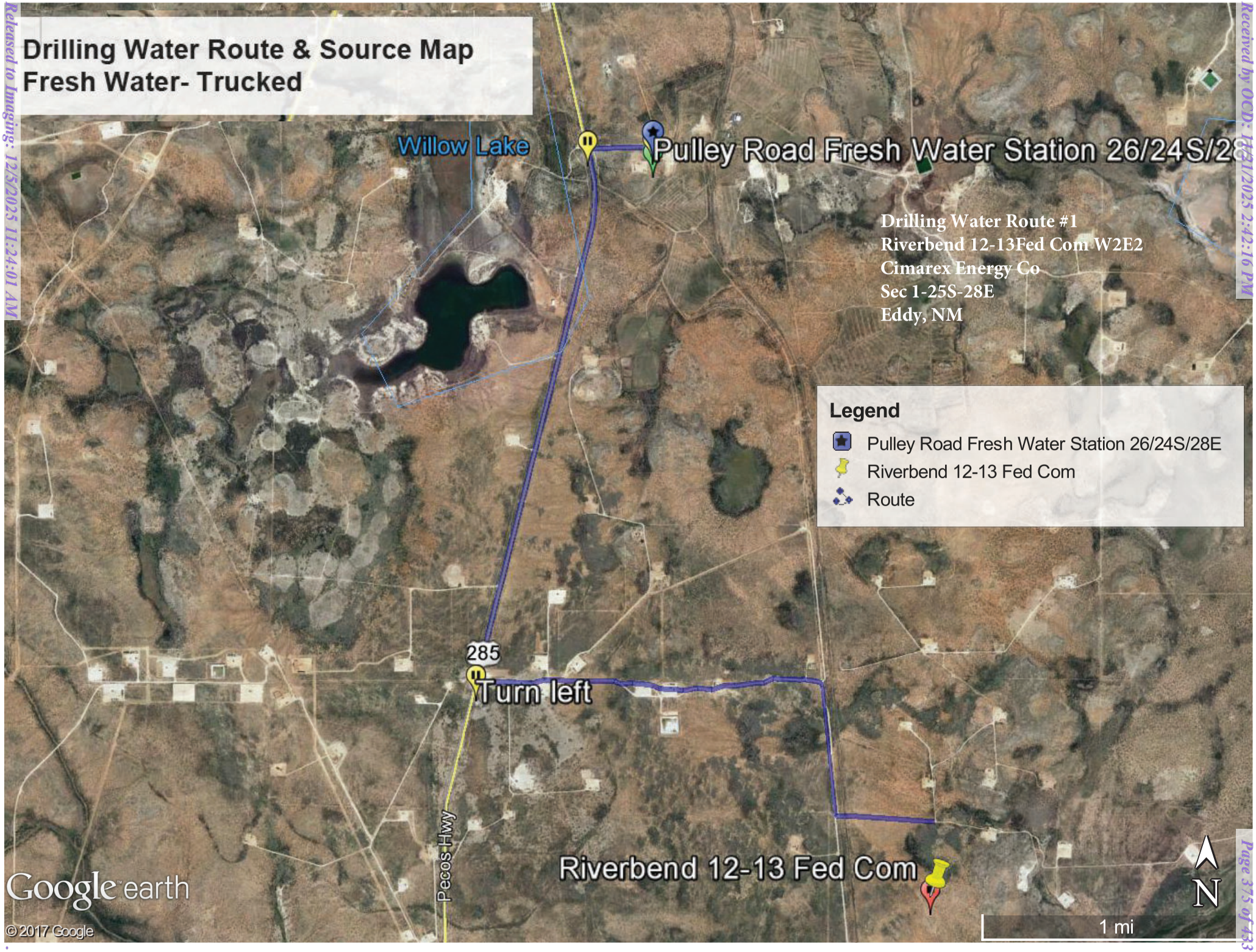
RIVERBEND 14 CTB
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

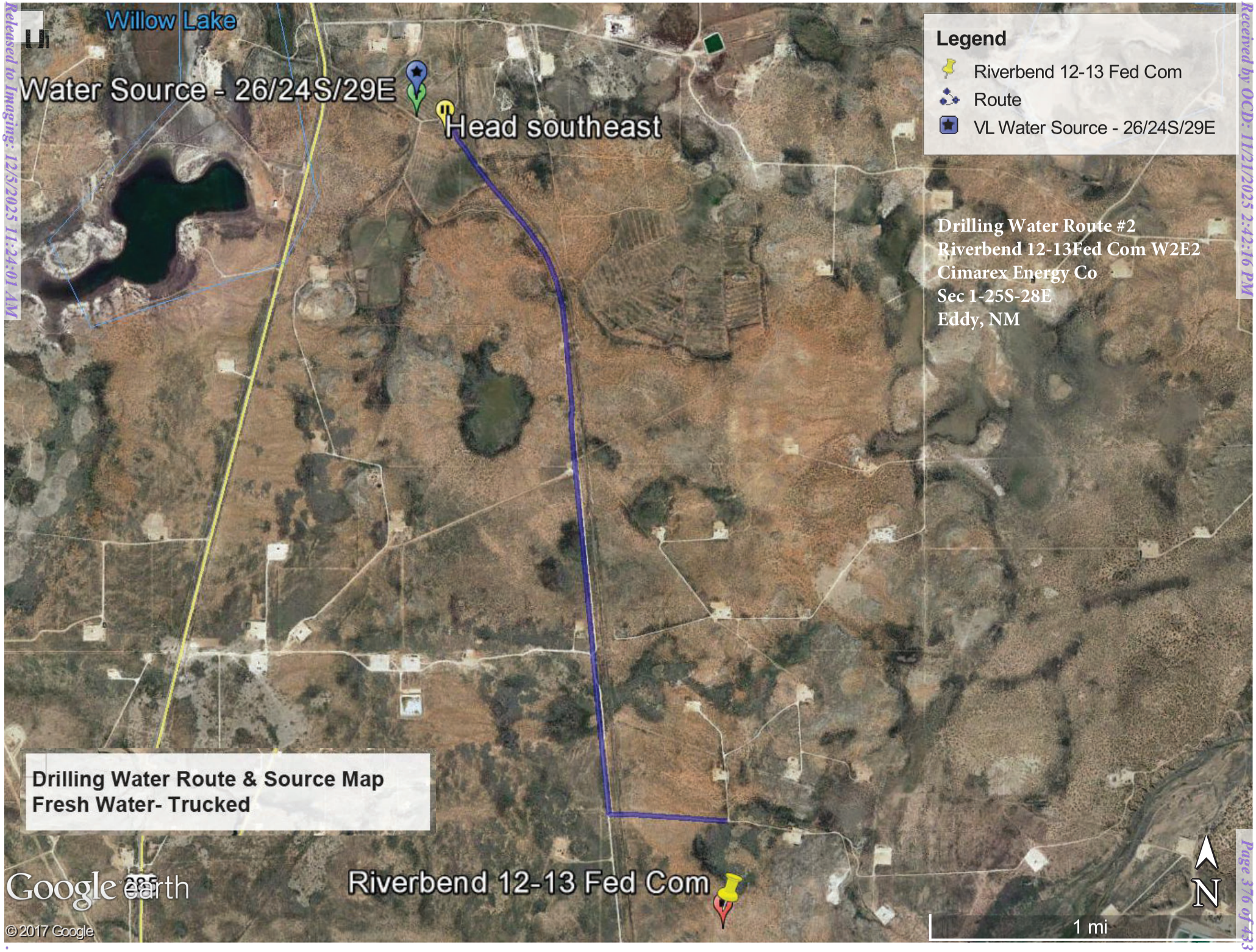
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Received by OCD: 12/1/2025 2:42:16 PM

Drilling Water Route & Source Map
Fresh Water- Trucked



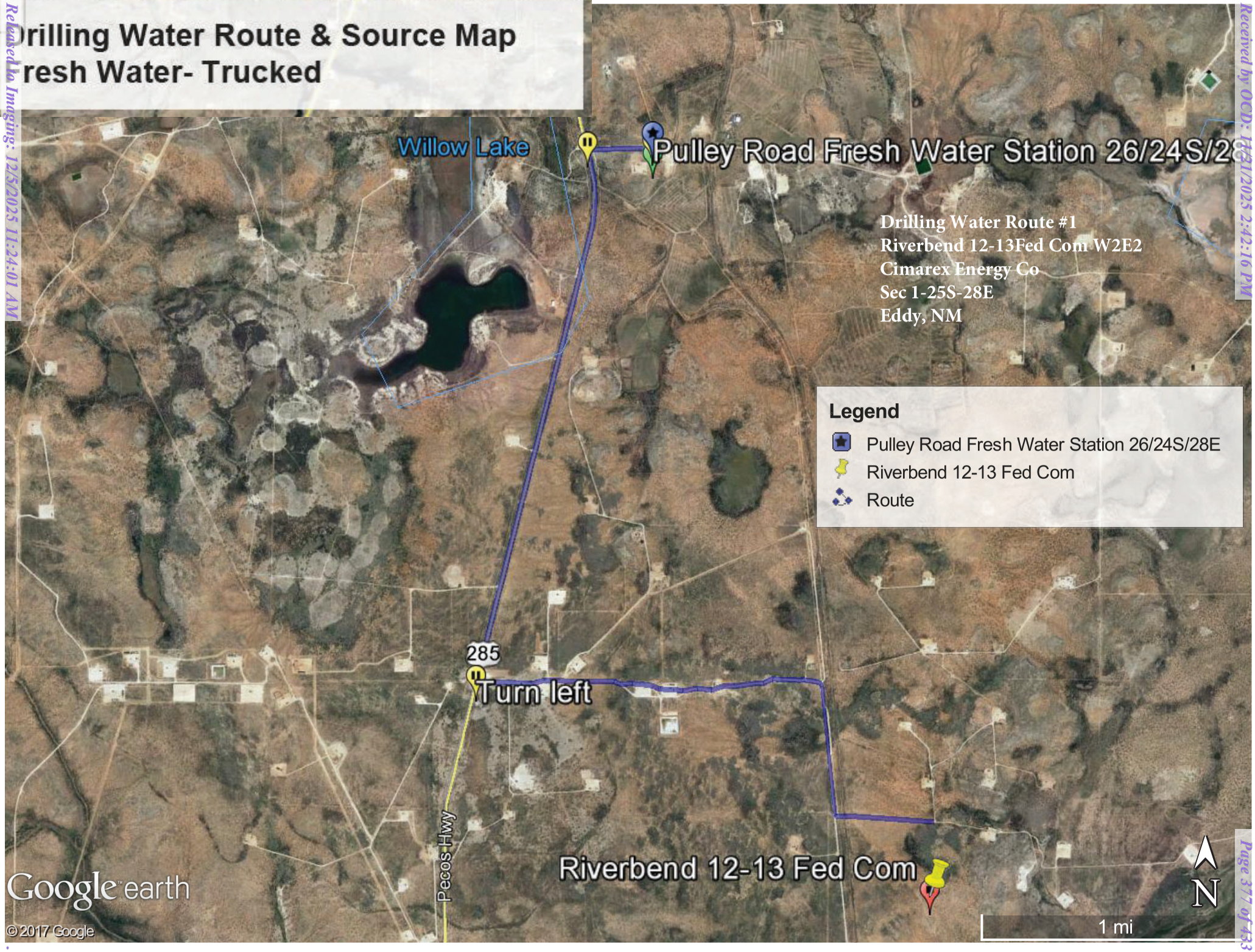
Page 375 of 433

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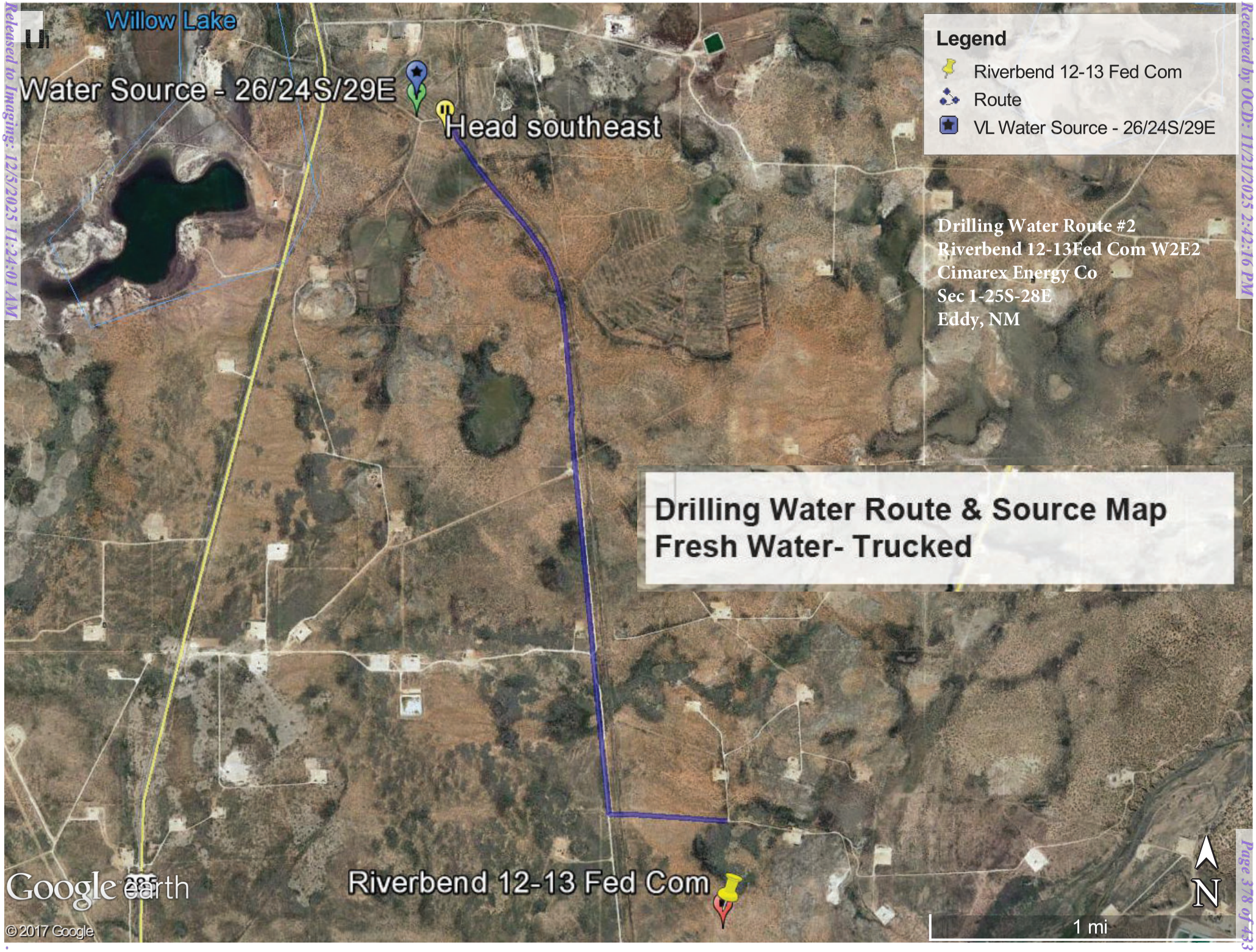
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Drilling Water Route & Source Map
Fresh Water- Trucked



Page 377 of 433

Released to Imaging: 12/5/2025 11:24:01 AM
Received by OCD: 11/21/2025 2:42:16 PM



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

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

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

N

Prevailing Winds

50' Well Pad Buffer

Approx. Toe of Fill Slope

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

5 F-4.3' El. 33.9'

180'

120'

6 F-8.4' El. 29.8'

Alternate Egress

7 F-12.3' El. 25.9'

Approximate Topsoil Fill Area

80'

N00°24'38"W 110'

F-2.5' El. 35.7'

4H 7H 8H 3H 1H

F-3.7' El. 34.5'

260'

20' 20' 20' 20'

140'

4 F-0.1' El. 38.1'

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

8 F-7.1' El. 31.1'

60'

69'

20' 20'

80'

4'

C-0.3' El. 38.5'

SHL SHL SHL

F-0.5' El. 37.7'

9 C-0.2' El. 38.4'

86'

81'

250'

36'

34'

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Satellite Pad

100'

Approx. Top of Cut Slope

3 C-5.7' El. 43.9'

230'

35'

35'

1

180'

10

Section Line

2 C-1.0' El. 39.2'

Section 11

Section 14

Existing Anchor

Existing Power Pole (Typ.)

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Power Line

Existing Edge of Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

FINISHED GRADE ELEVATION = 2,938'

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

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

NOTES:

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

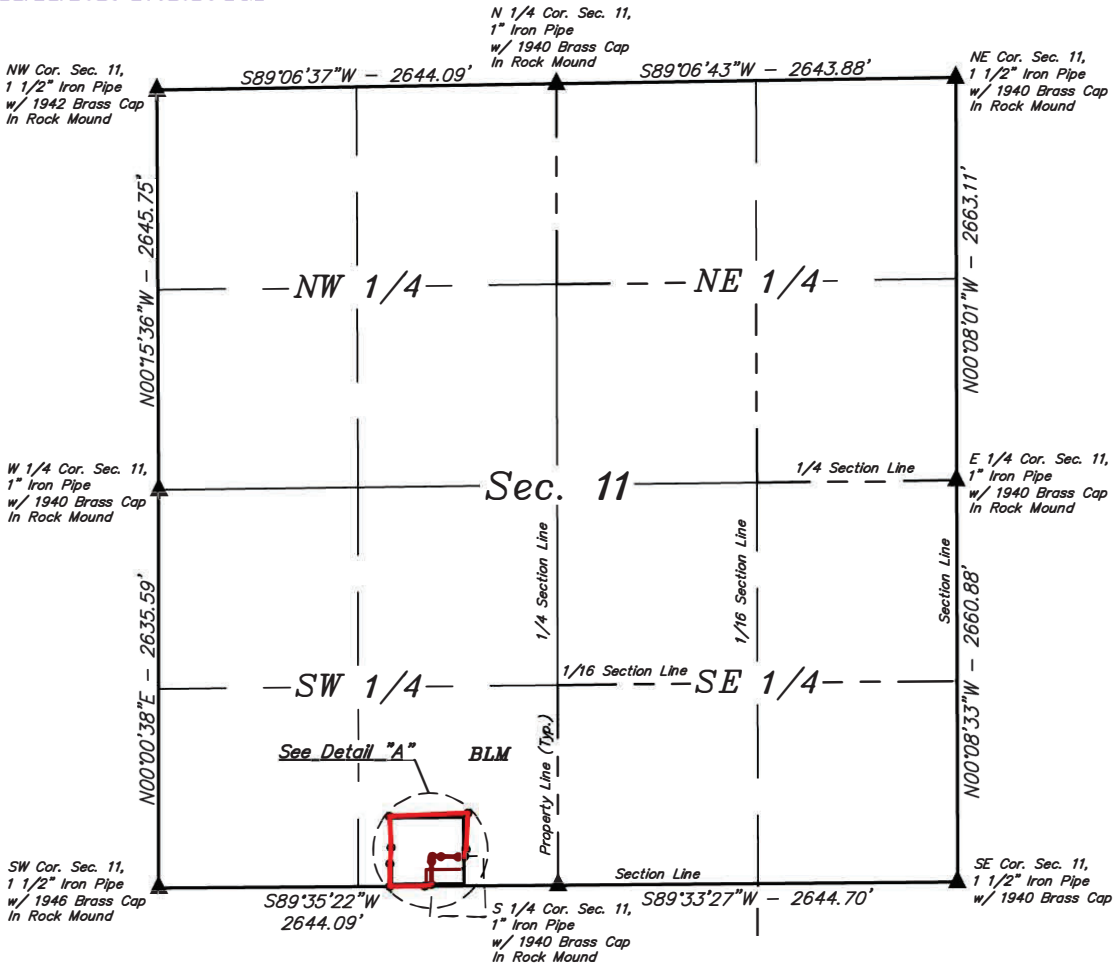
CIMAREX ENERGY CO.

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

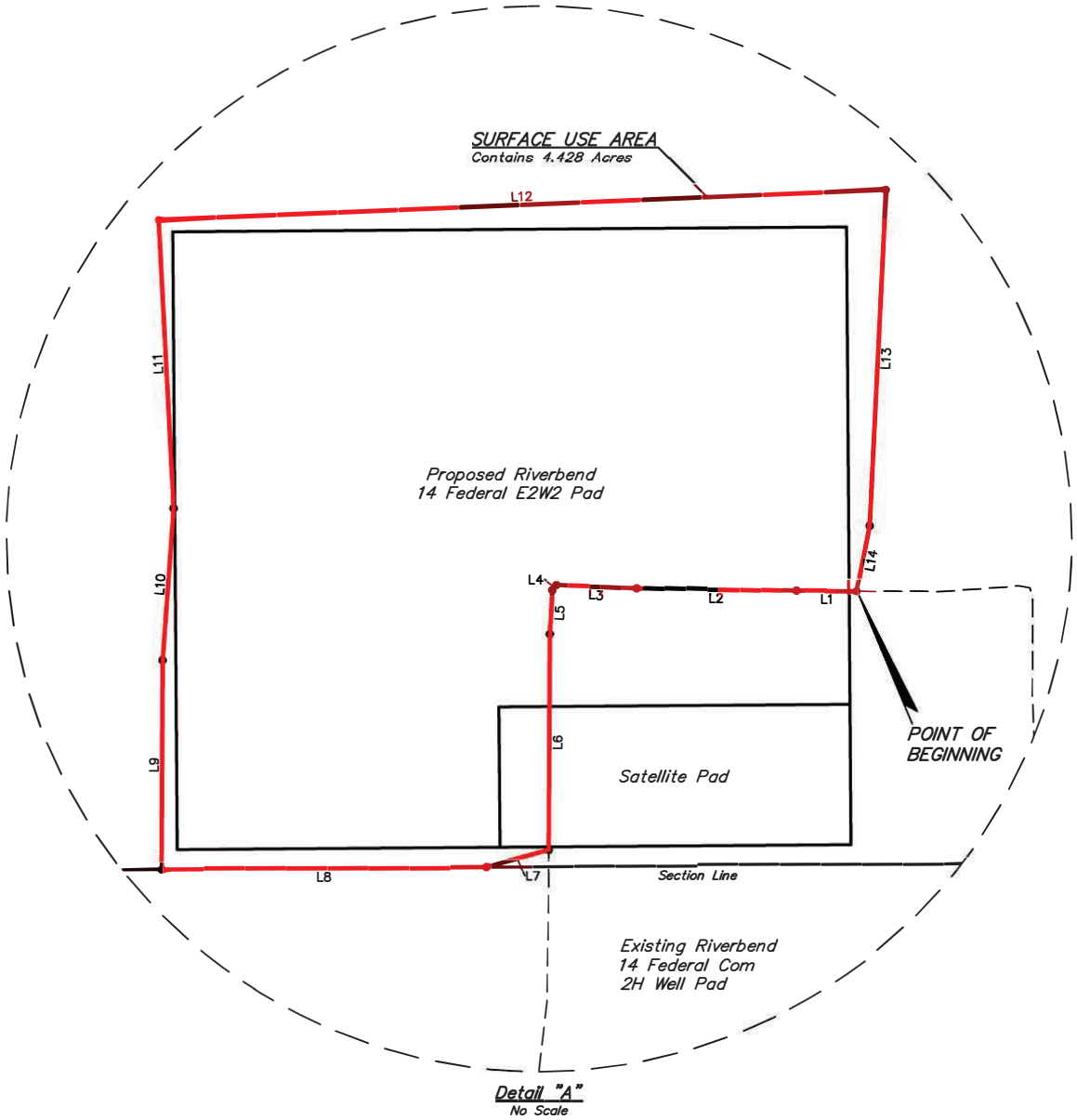
CIMAREX ENERGY CO.

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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STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR
08-20-24

Sheet 2 of 2

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

N

CIMAREX ENERGY CO.

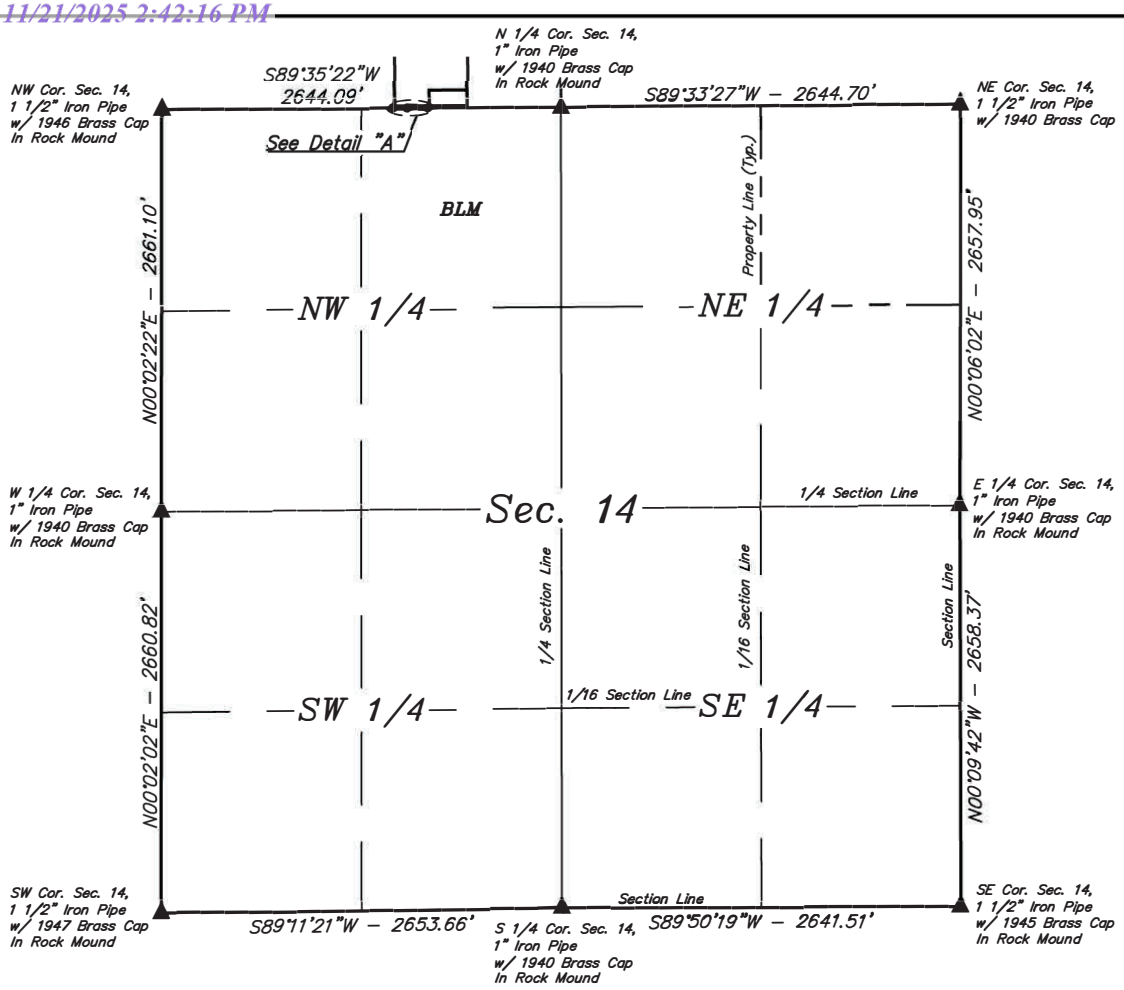
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

SURFACE USE AREA

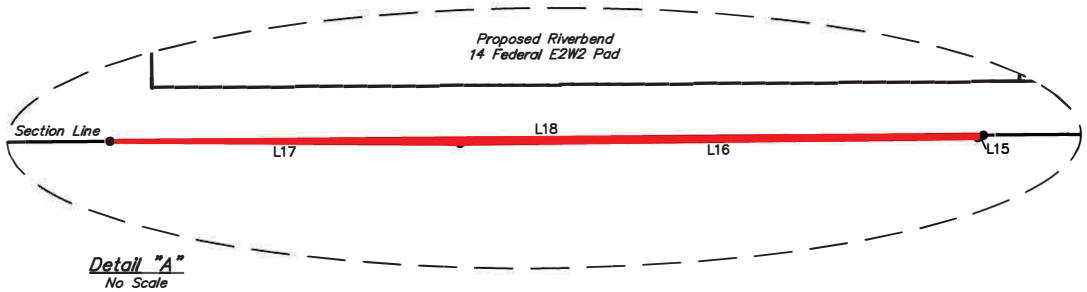
UINTAH ENGINEERING & LAND SURVEYING

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



SURFACE USE AREA DESCRIPTION

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



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

1000' 500' 0' 1000'

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

▲ = SECTION CORNERS LOCATED.

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

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

23782 — Daniel Bucklew — 08-20-24 — PROFESSIONAL SURVEYOR

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

N

CIMAREX ENERGY CO.

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

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

SURFACE USE AREA

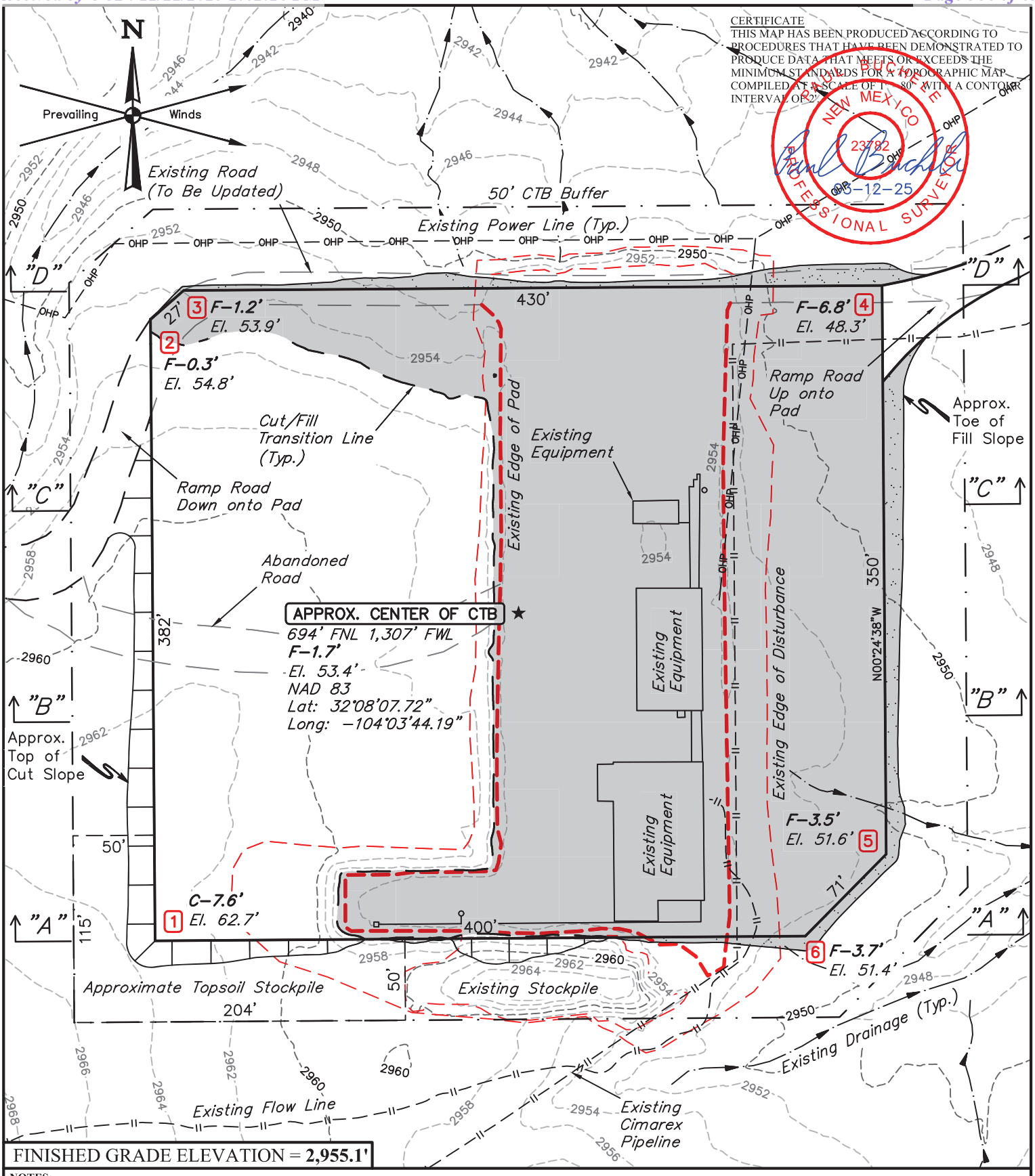
UINTAH ENGINEERING & LAND SURVEYING

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

DATE:	DESCRIPTION:
3/19/2025	FINAL PLAT PACKAGE

UINTAH
ENGINEERING & LAND SURVEYING



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

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

FINISHED GRADE ELEVATION = **2,955.1'**

NOTES:

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

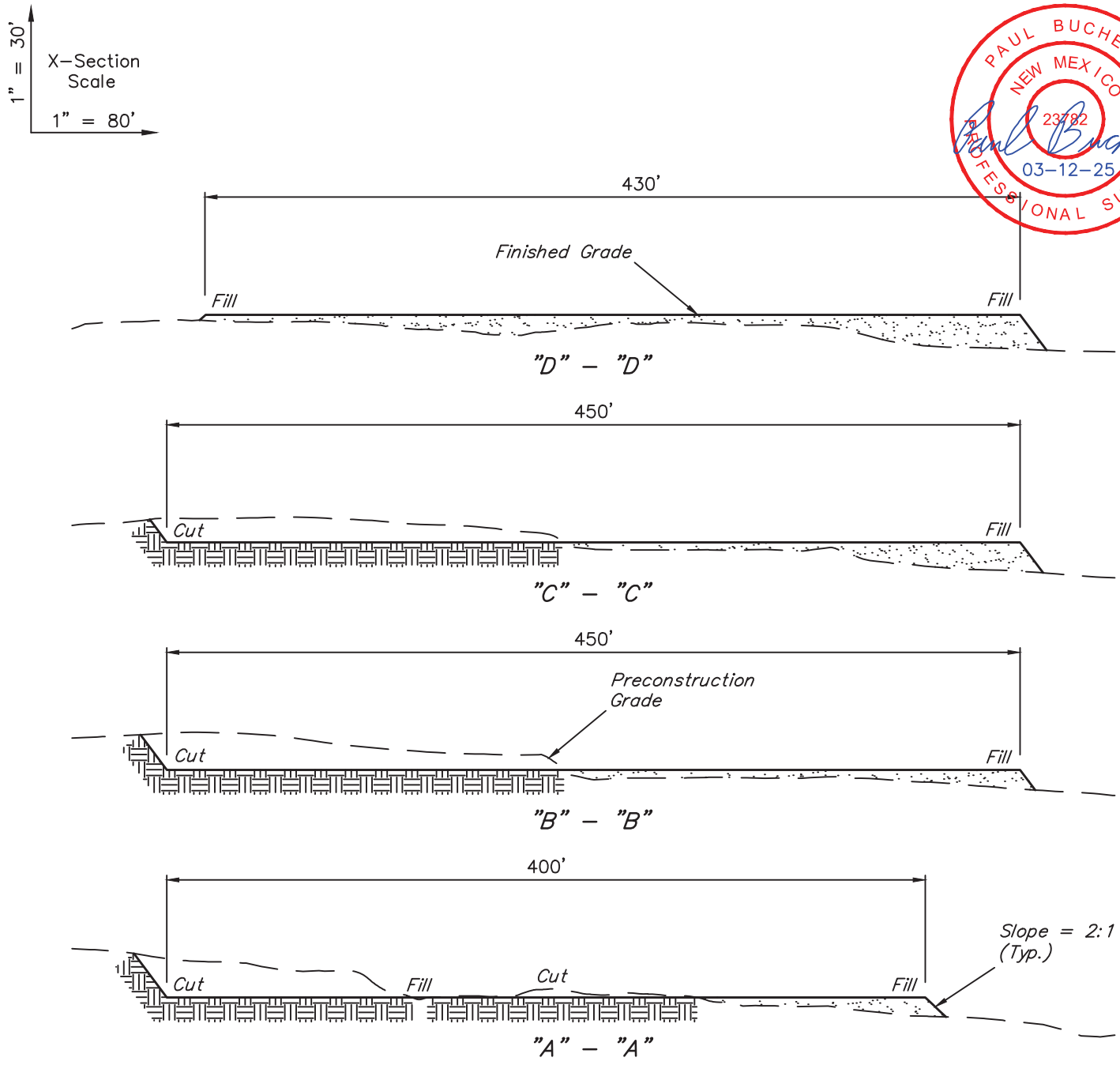
CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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



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.

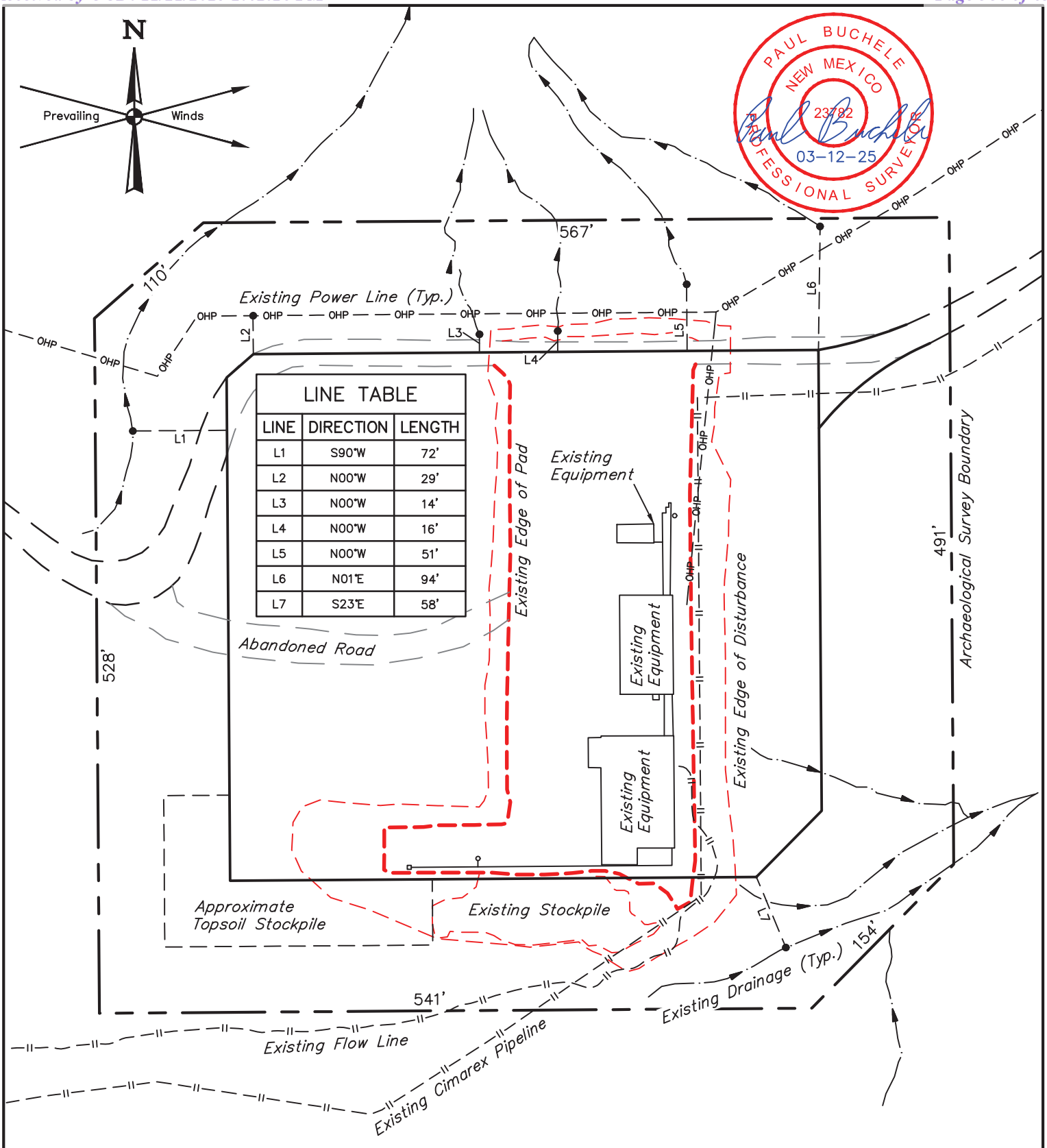
CIMAREX ENERGY CO.

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
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Vernal, UT 84078 * (435) 789-1017



NOTES:

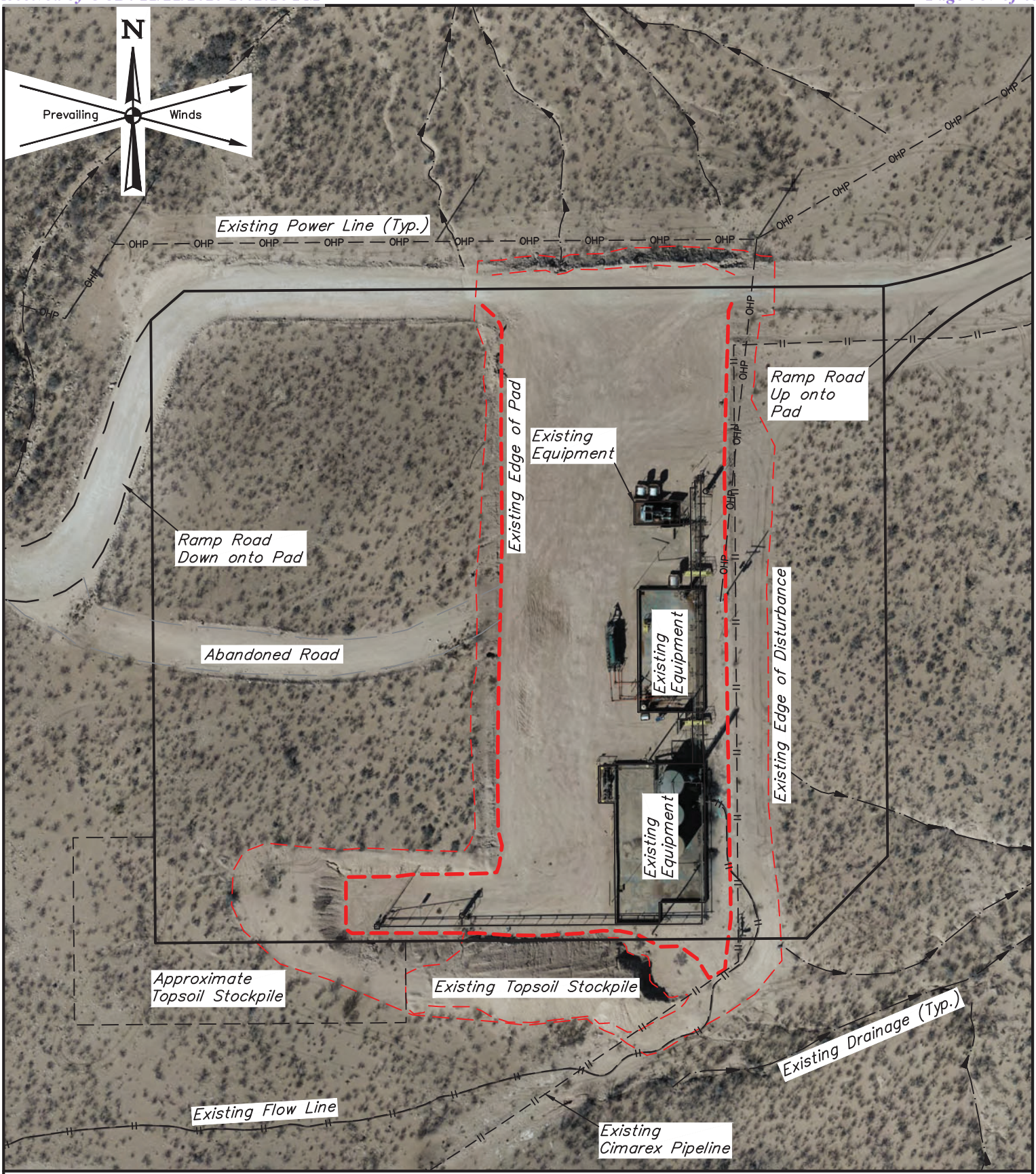
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

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

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.0 MILE TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.0 MILES.

CIMAREX ENERGY CO.

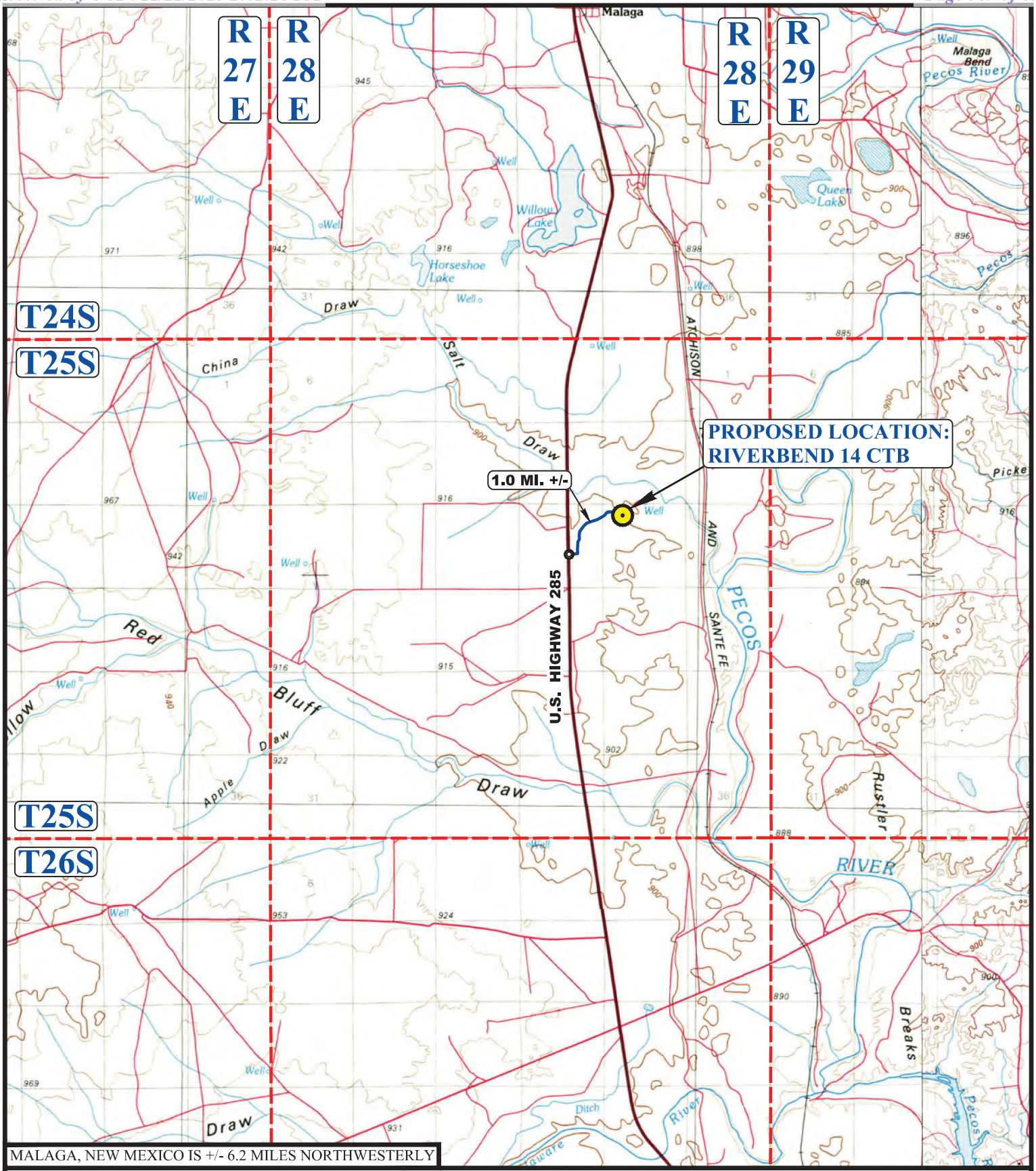
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
NW 1/4 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	

ROAD DESCRIPTION **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

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



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

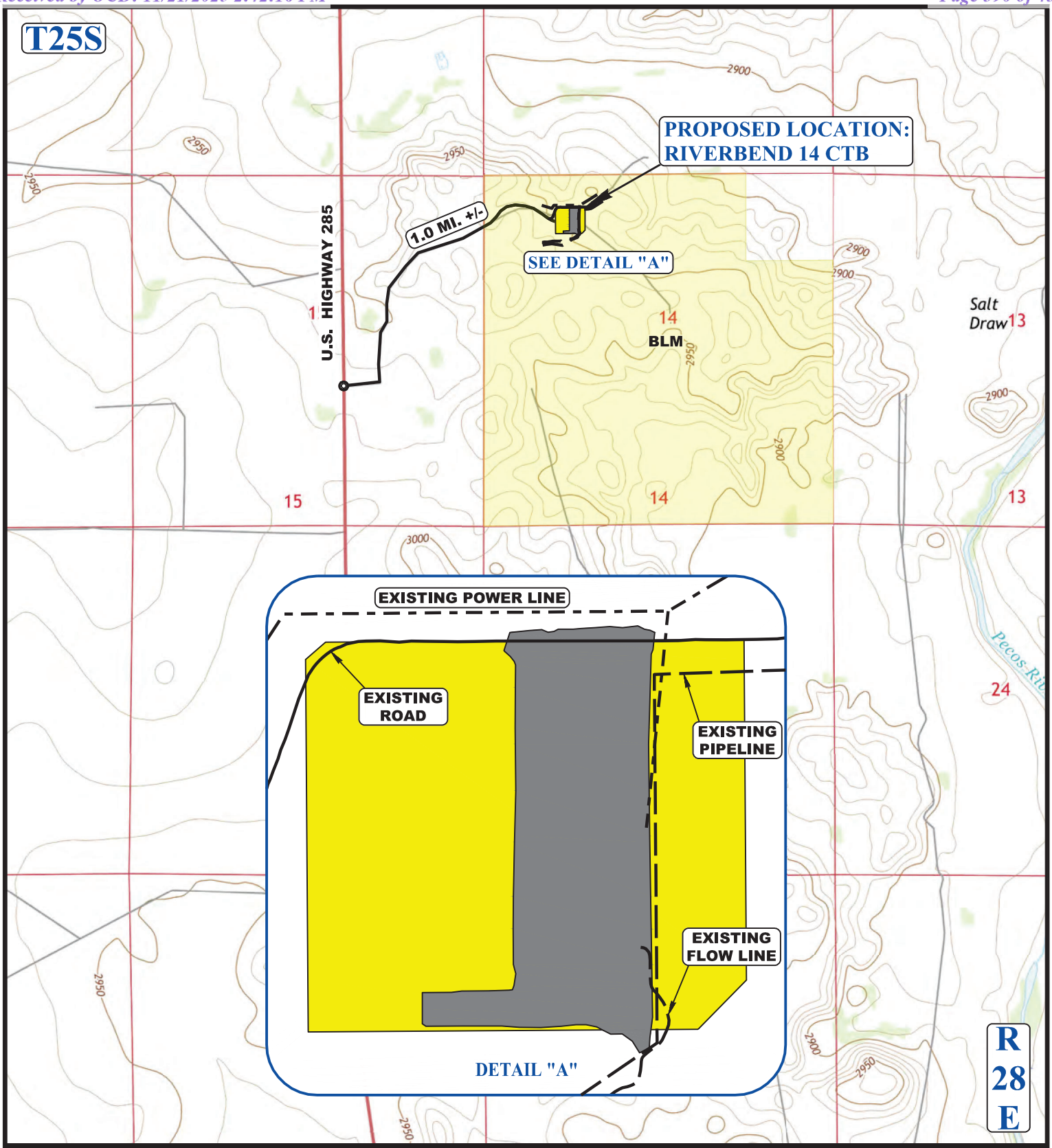
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE/FLOW LINE

N

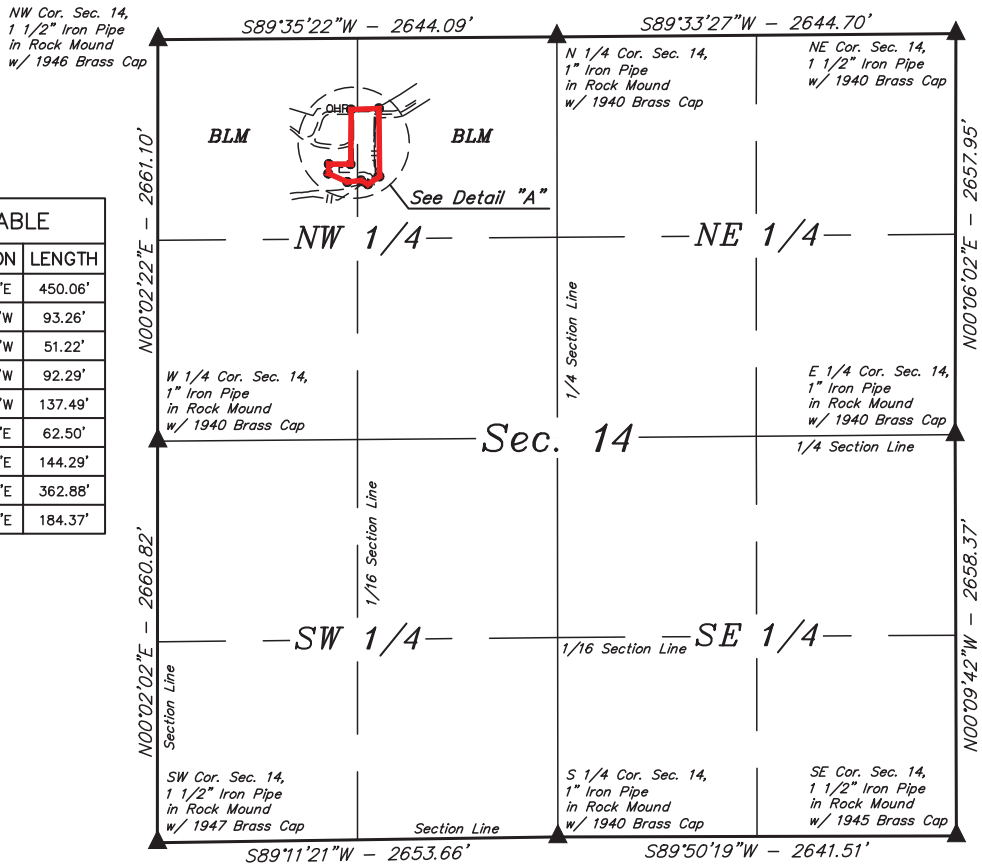
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 24,000

NEW ROAD MAP **EXHIBIT F**

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

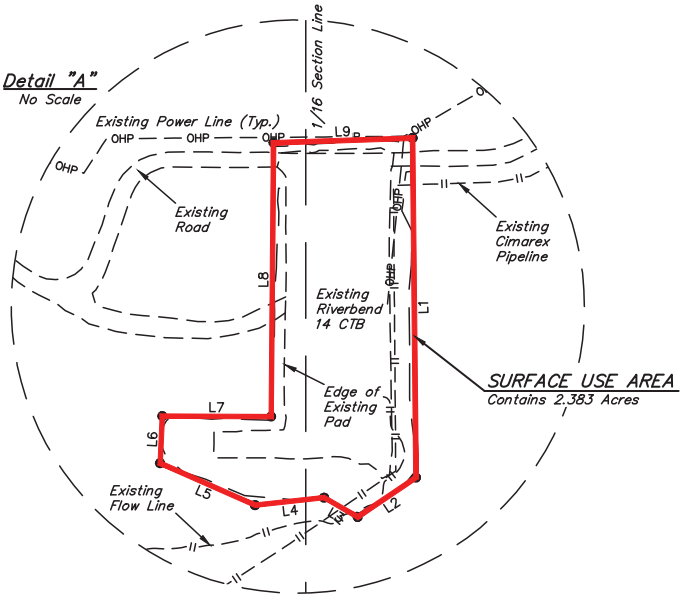


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

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





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

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

N

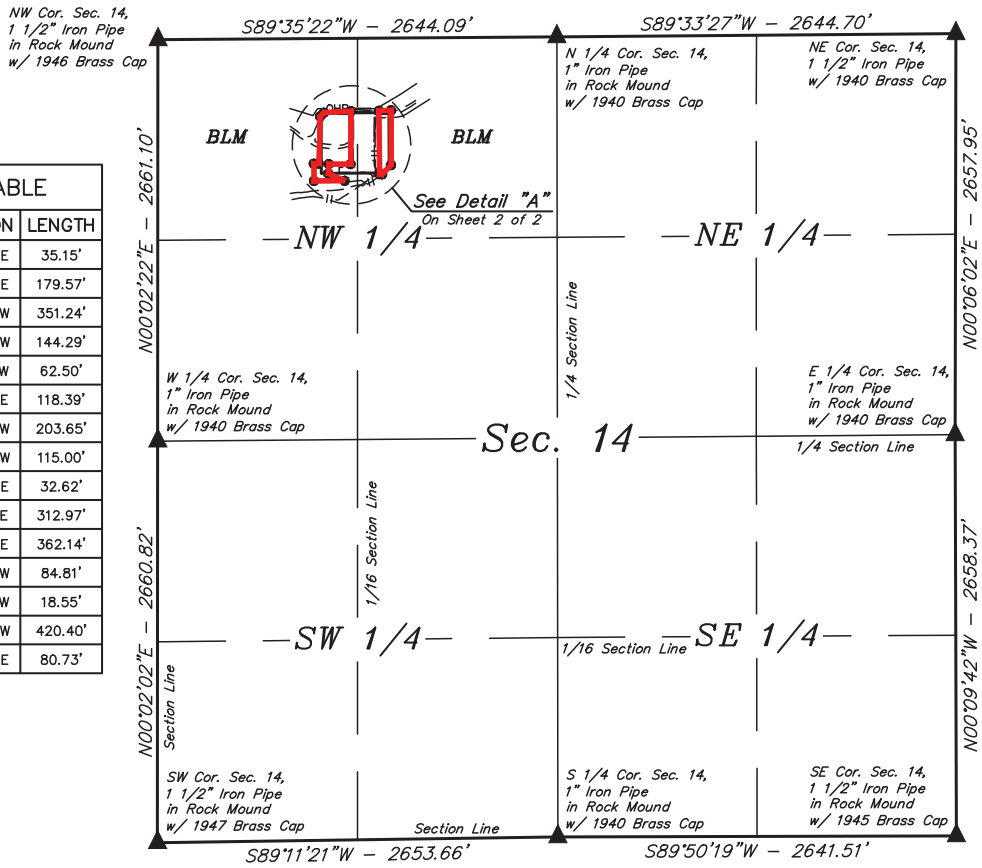
CIMAREX ENERGY CO.

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

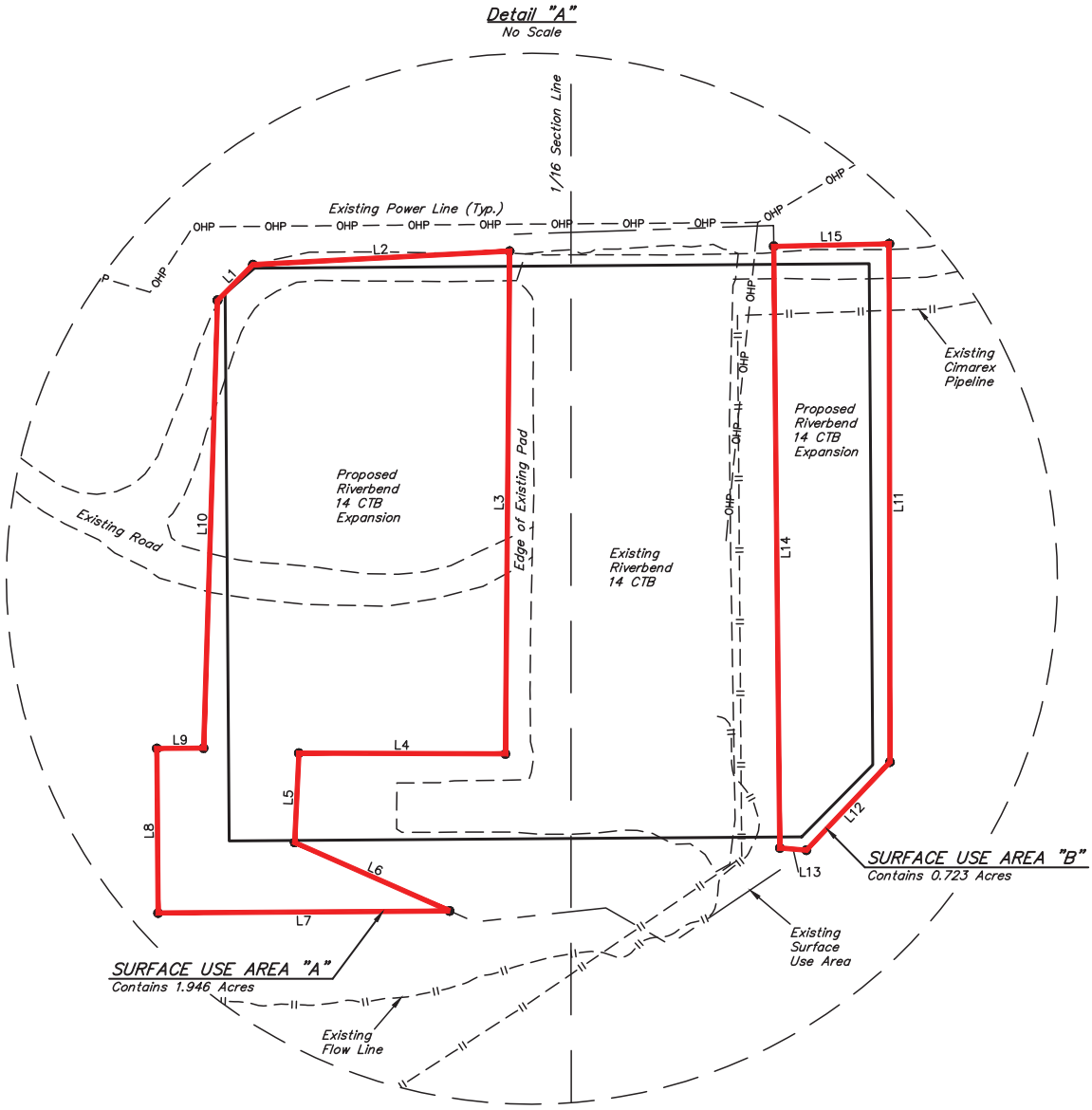
CIMAREX ENERGY CO.

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)

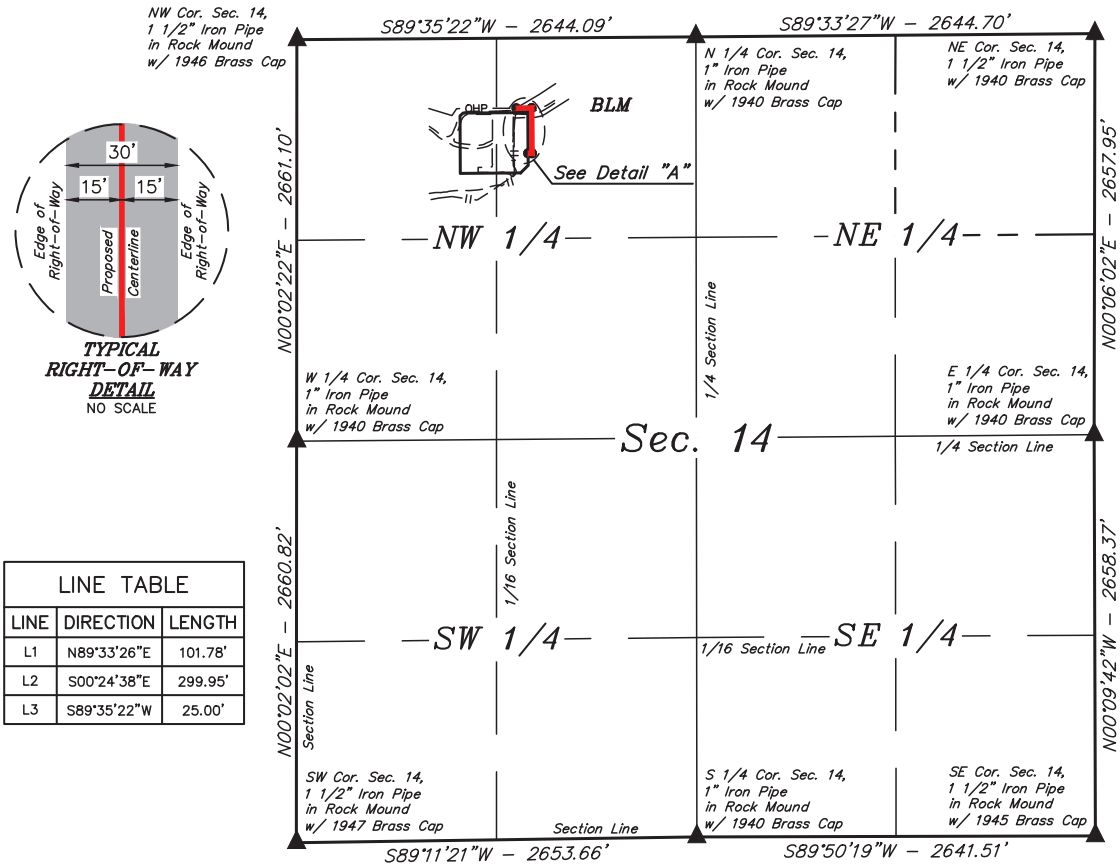
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CIMAREX ENERGY CO.

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



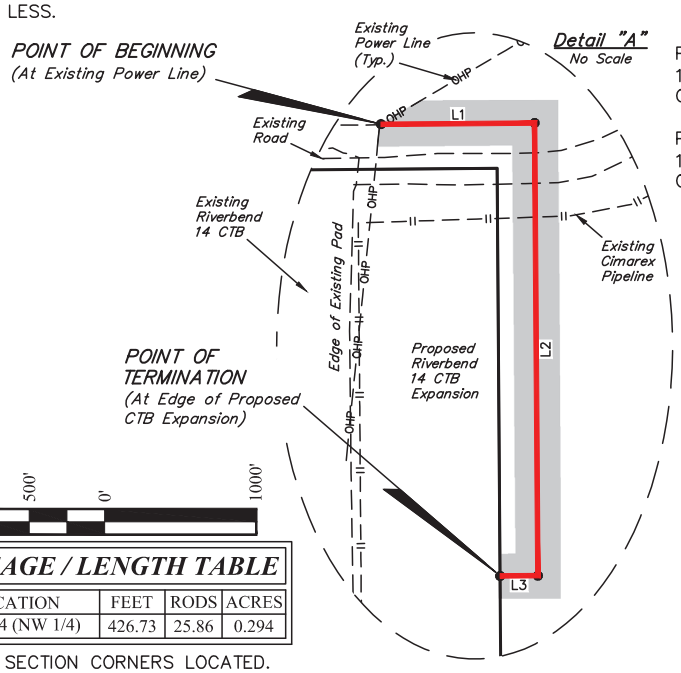
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

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

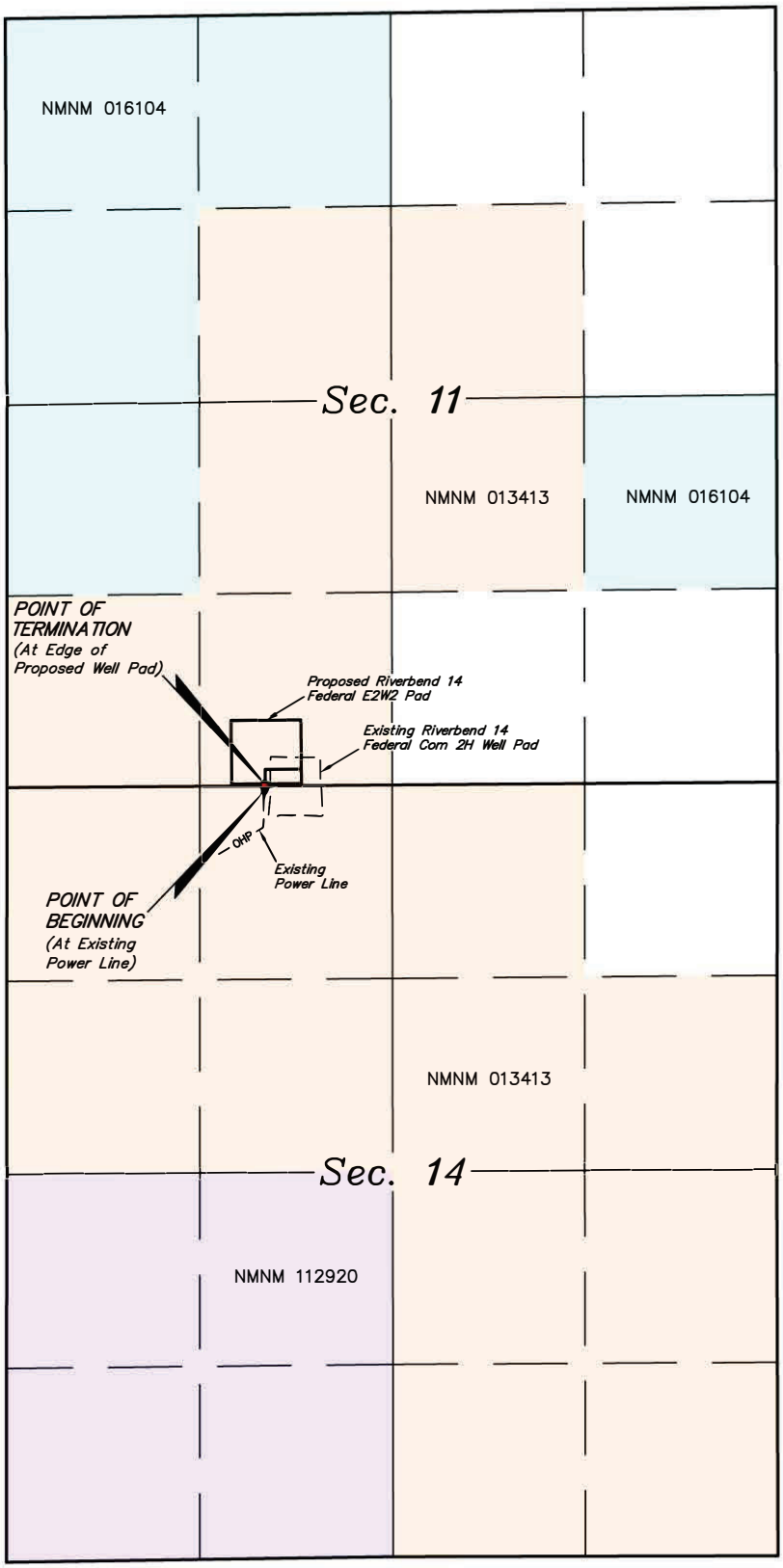
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

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

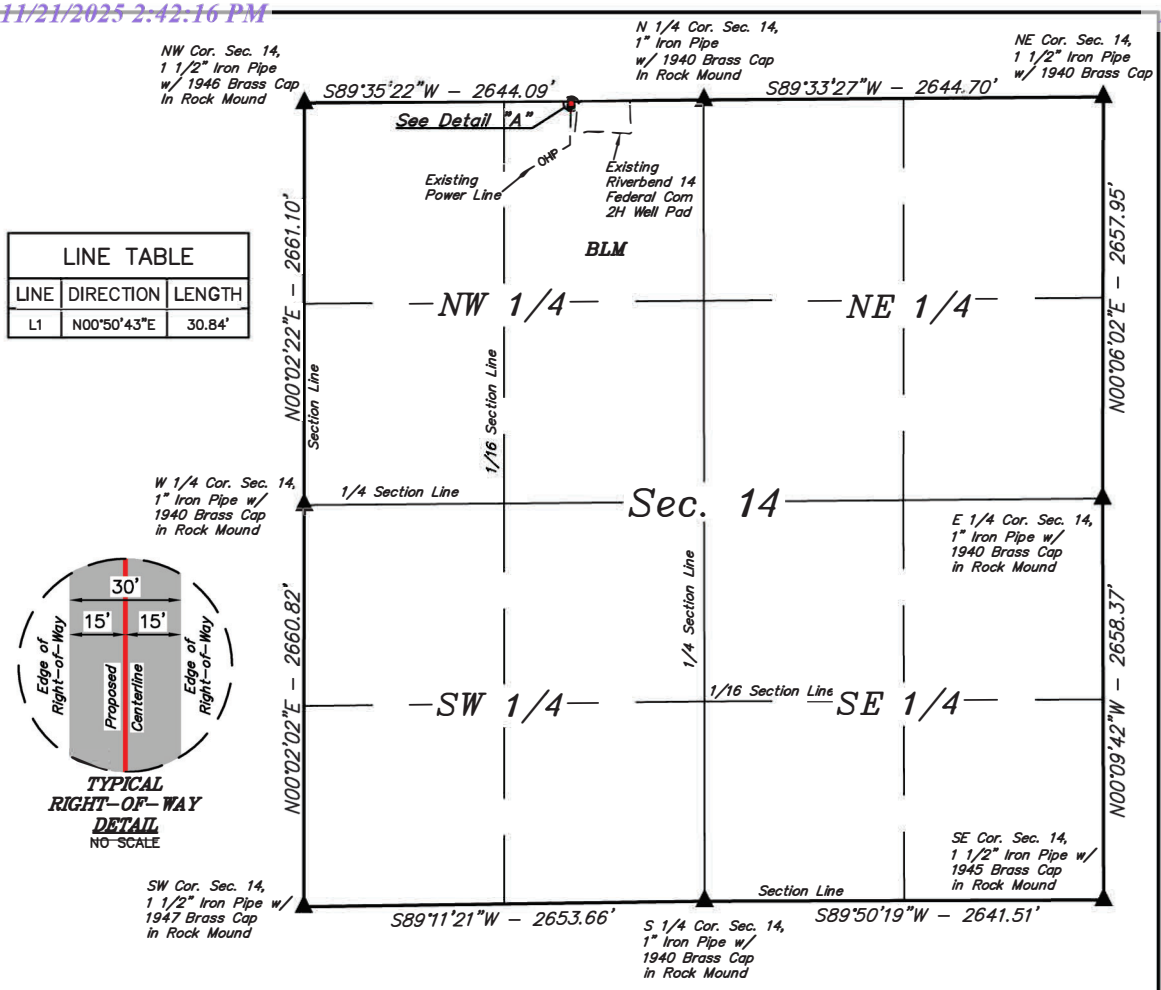
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CIMAREX ENERGY CO.

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

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

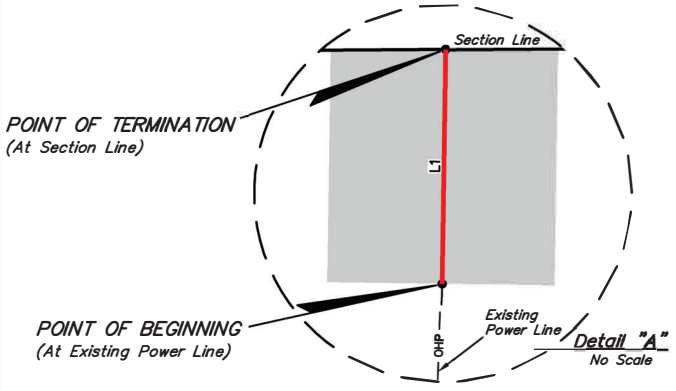
OVERALL POWER LINE



POWER LINE RIGHT-OF-WAY DESCRIPTION

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

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



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

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

CERTIFICATE

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 11-12-24

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

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:

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

N

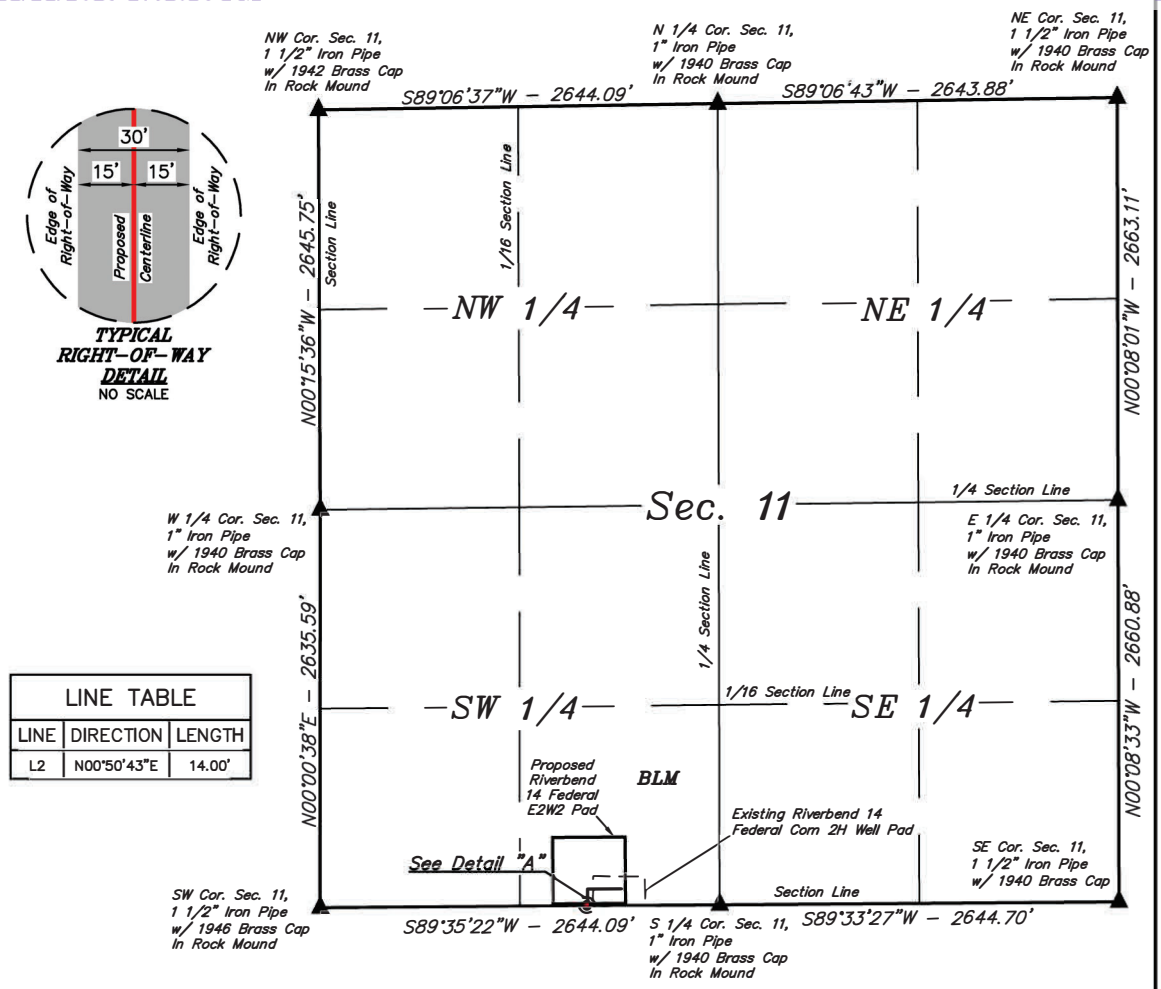
CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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

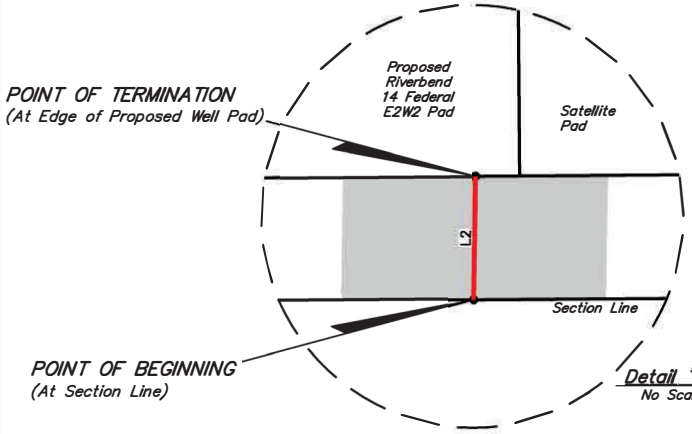


LINE TABLE		
LINE	DIRECTION	LENGTH
L2	N00°50'43"E	14.00'

POWER LINE RIGHT–OF–WAY DESCRIPTION

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

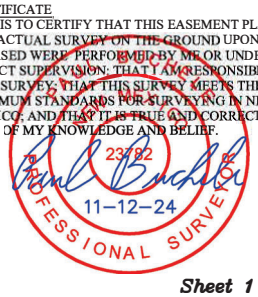
COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 877.88' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 TO THE POINT OF BEGINNING; THENCE N00°50'43"E 14.00' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.010 ACRES MORE OR LESS.



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

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

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



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

▲ = SECTION CORNERS LOCATED.

1000' 500' 0' 1000'

Sheet 1 of 2

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

N

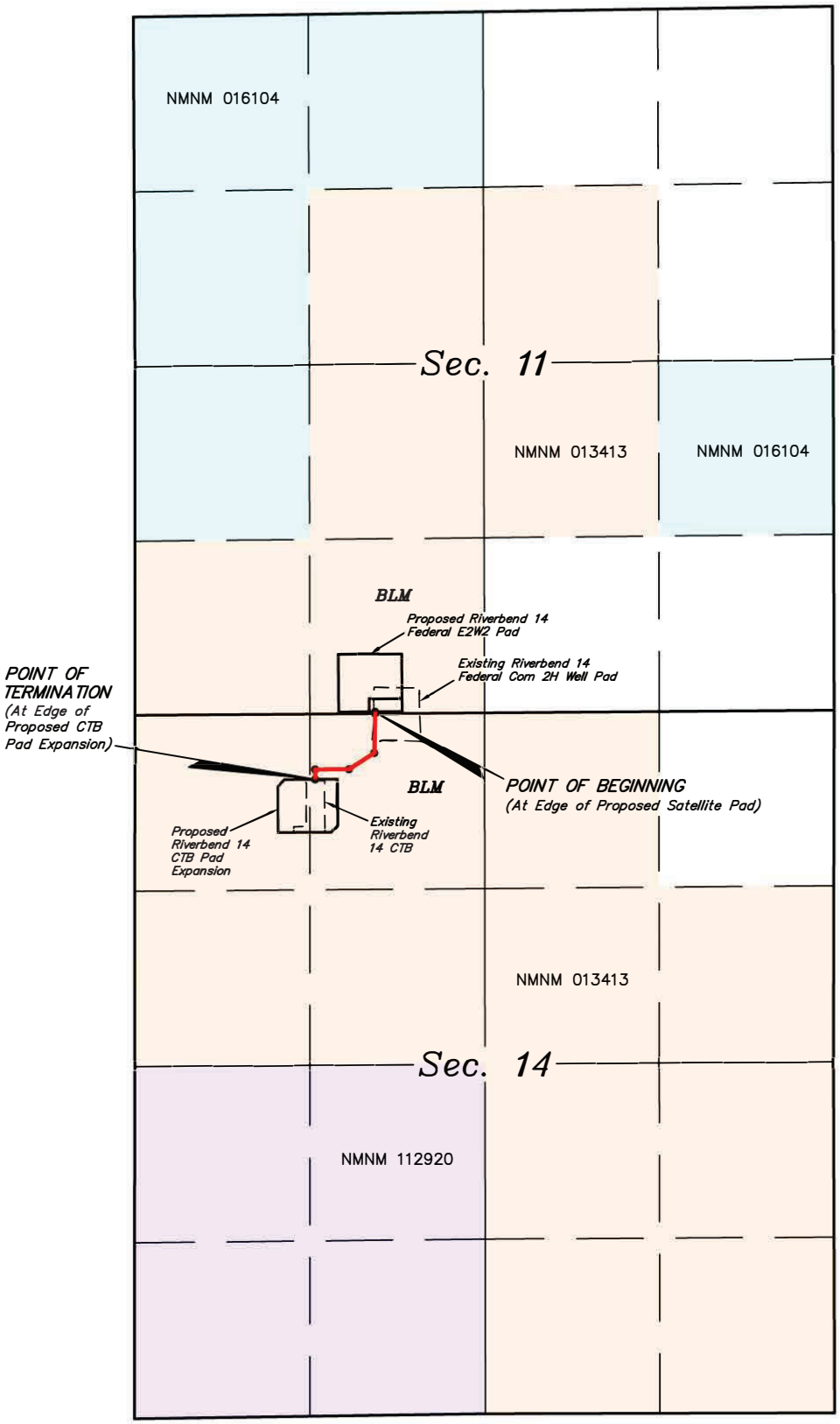
CIMAREX ENERGY CO.

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

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-B1		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING

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



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

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

N

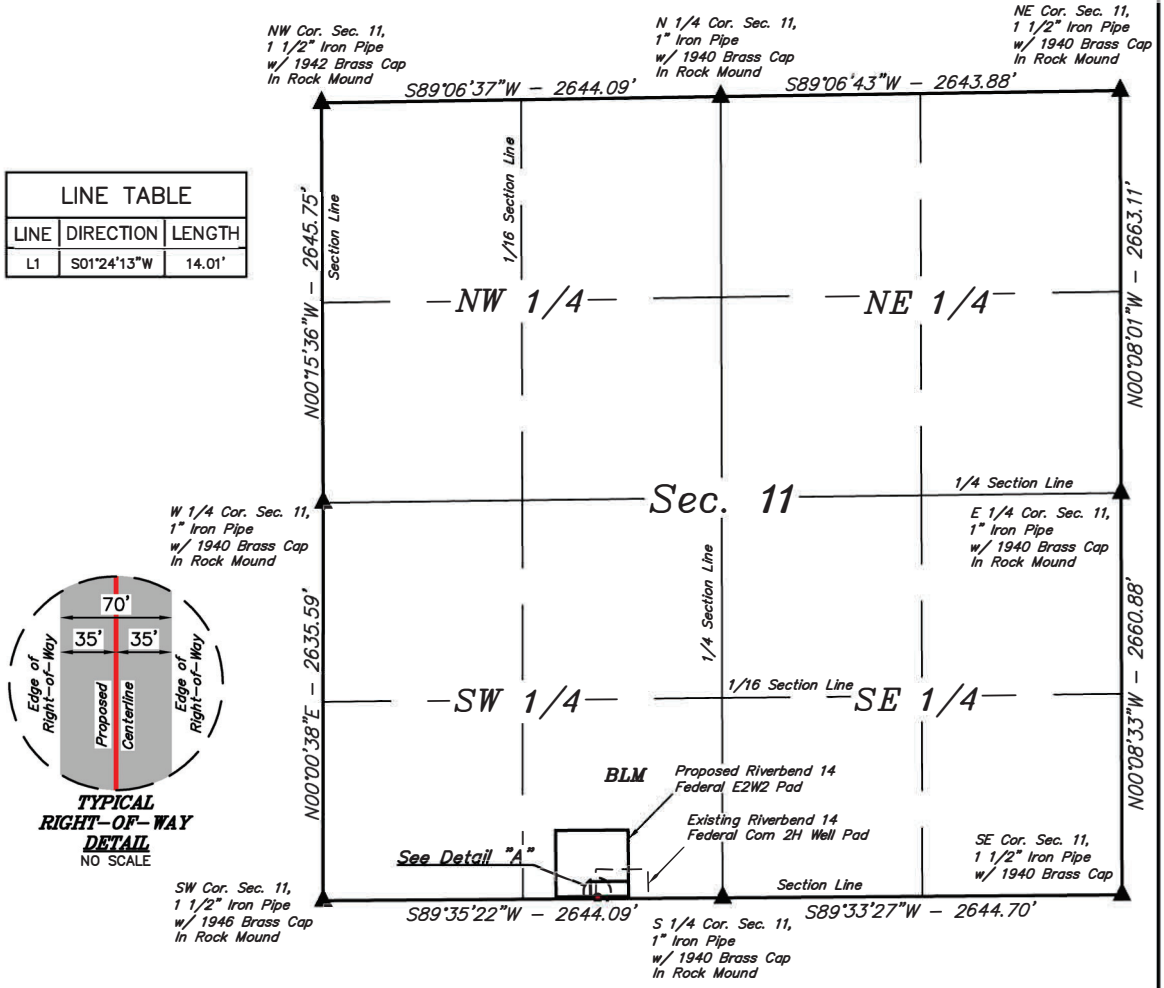
REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

CIMAREX ENERGY CO.

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

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

OVERALL BULK LINE



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

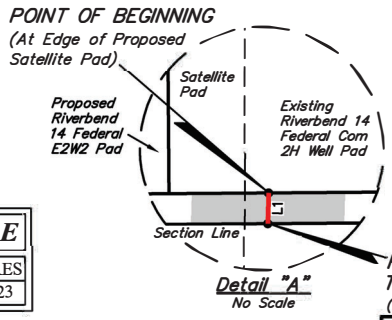
BULK LINE RIGHT-OF-WAY DESCRIPTION

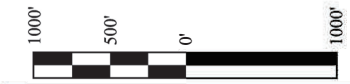
A 70' WIDE RIGHT-OF-WAY 35' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

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

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

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

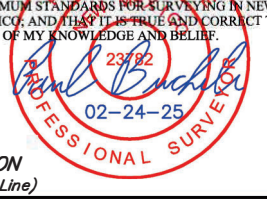




ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 11 (SW 1/4)	14.01	0.85	0.023

▲ = SECTION CORNERS LOCATED.

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



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

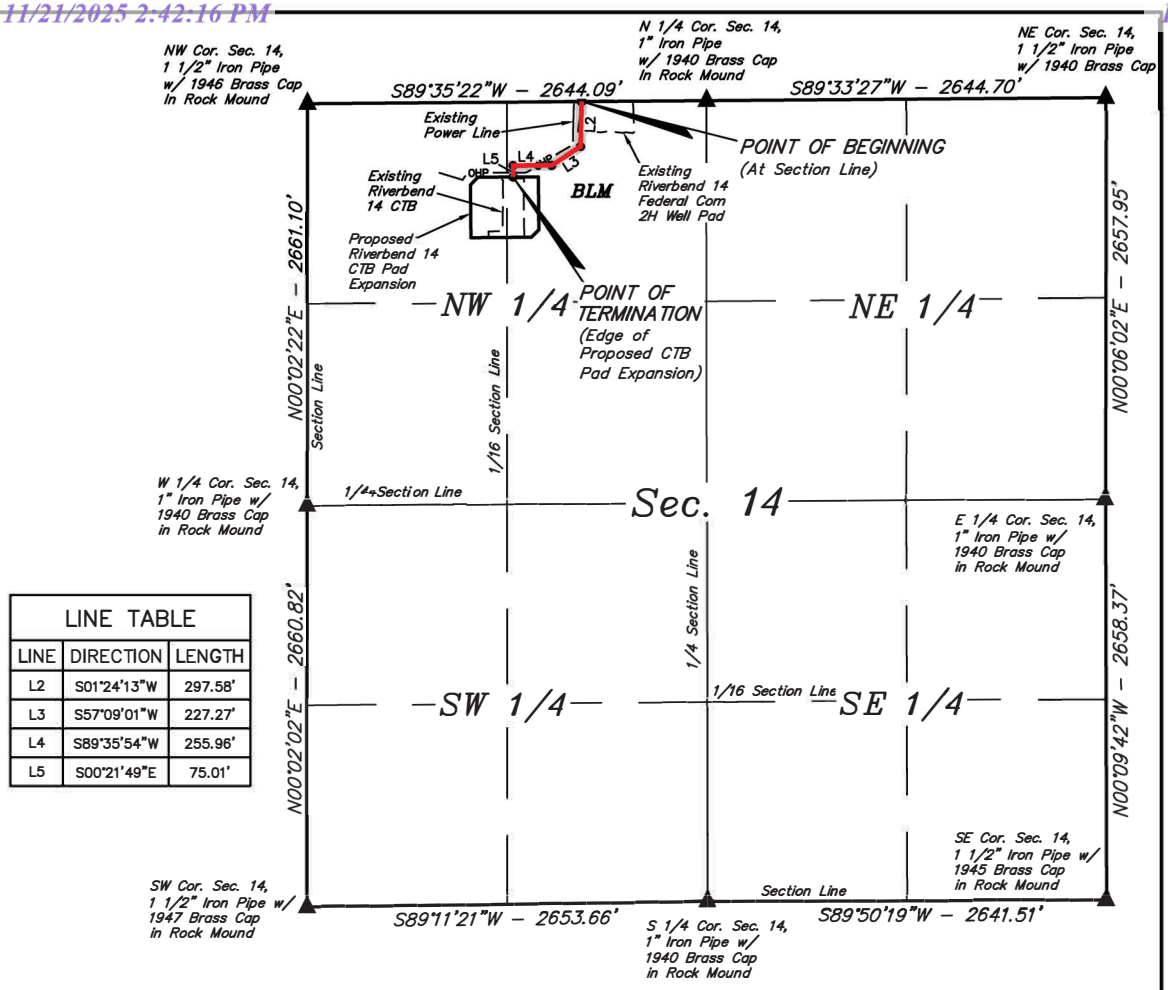
NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

CIMAREX ENERGY CO.

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

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

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



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

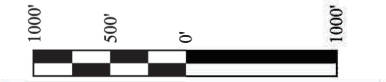
BULK LINE RIGHT–OF–WAY DESCRIPTION

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

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

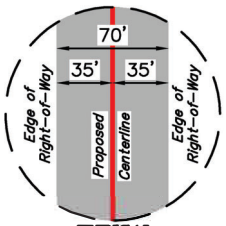
POINT OF BEGINNING BEARS S89°35'22"W 827.38' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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



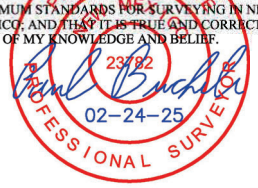
ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	855.82	51.87	1.375

▲ = SECTION CORNERS LOCATED.



TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

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



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

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

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

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'

180'

120'

6 F-8.4' El. 29.8'

Alternate Egress

7 F-12.3' El. 25.9'

Approximate Topsoil Fill Area

80'

N00°24'38"W 110'

F-2.5' El. 35.7'

4H 7H 8H 3H 1H

F-3.7' El. 34.5'

260'

140'

20' 20' 20' 20'

4 F-0.1' El. 38.1'

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

8 F-7.1' El. 31.1'

60'

69'

20' 20'

80'

4'

C-0.3' El. 38.5'

SHL SHL SHL

F-0.5' El. 37.7'

9 C-0.2' El. 38.4'

86'

81'

250'

36'

34'

Install 3' Wide by 1' High Berm

Existing Edge of Disturbance

Satellite Pad

100'

Approx. Top of Cut Slope

3 C-5.7' El. 43.9'

230'

35'

35'

1

180'

10

Section Line

2 C-1.0' El. 39.2'

Section 11

Section 14

Existing Anchor

Existing Power Pole (Typ.)

Existing Riverbend 14 Federal Com 2H Well Pad

Existing Power Line

Existing Edge of Pad

Existing Cimarex Gas Pipeline

Existing Riverbend 14 Federal Com 2H Wellhead

Existing Cimarex Flow Line

FINISHED GRADE ELEVATION = 2,938'

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

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

NOTES:

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

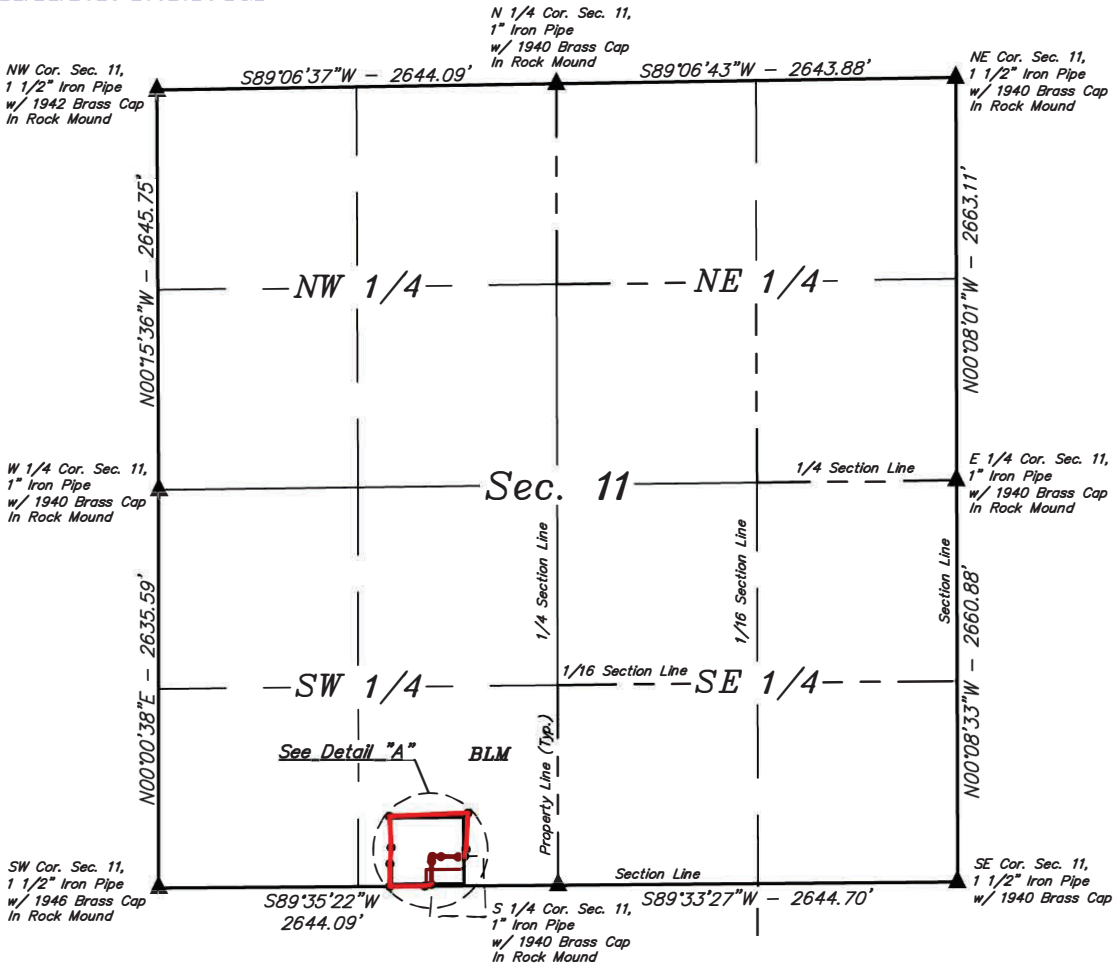
UINTAH ENGINEERING & LAND SURVEYING

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



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)

N

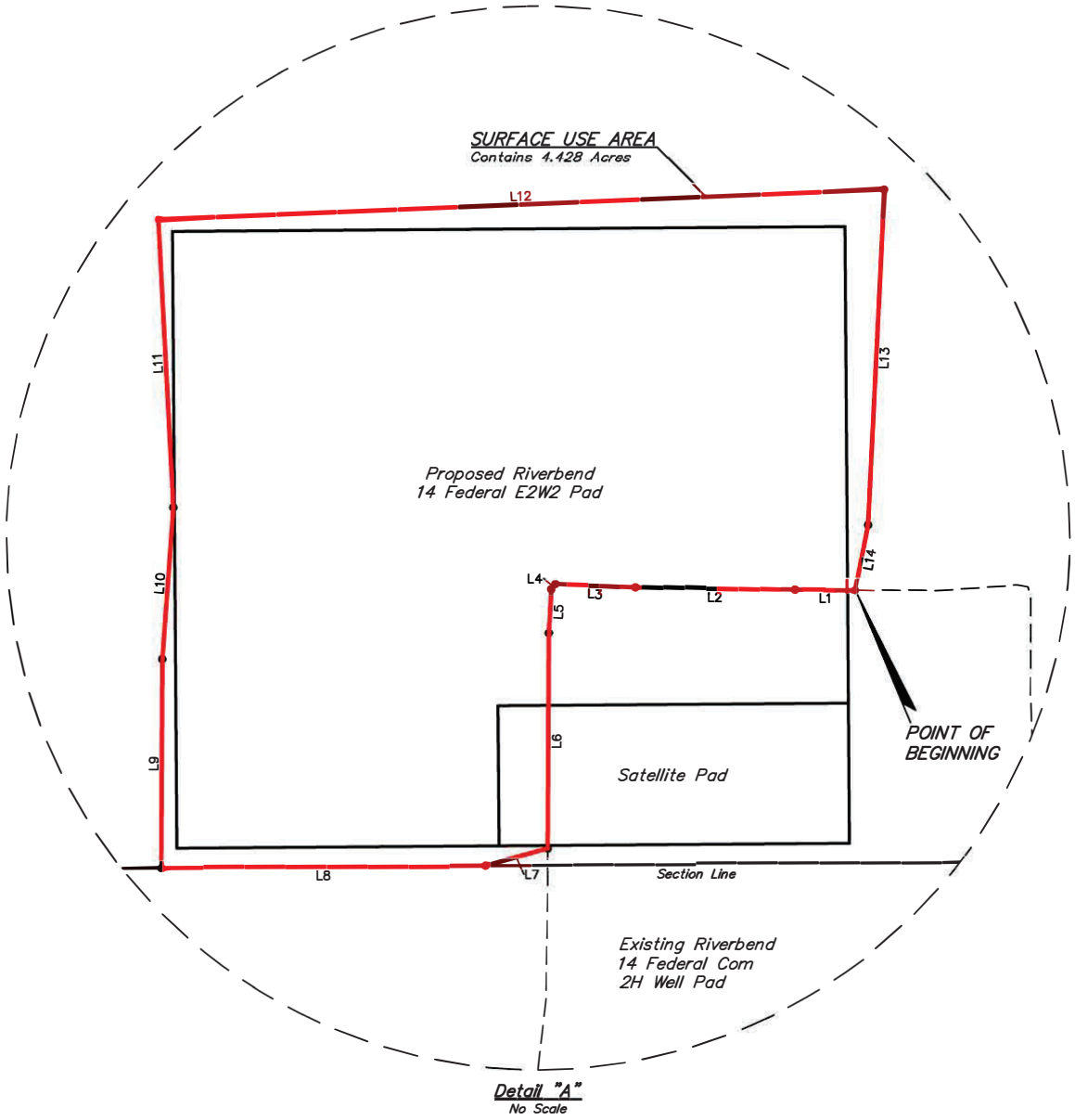
CIMAREX ENERGY CO.

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

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

SURFACE USE AREA

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



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

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STATE OF 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

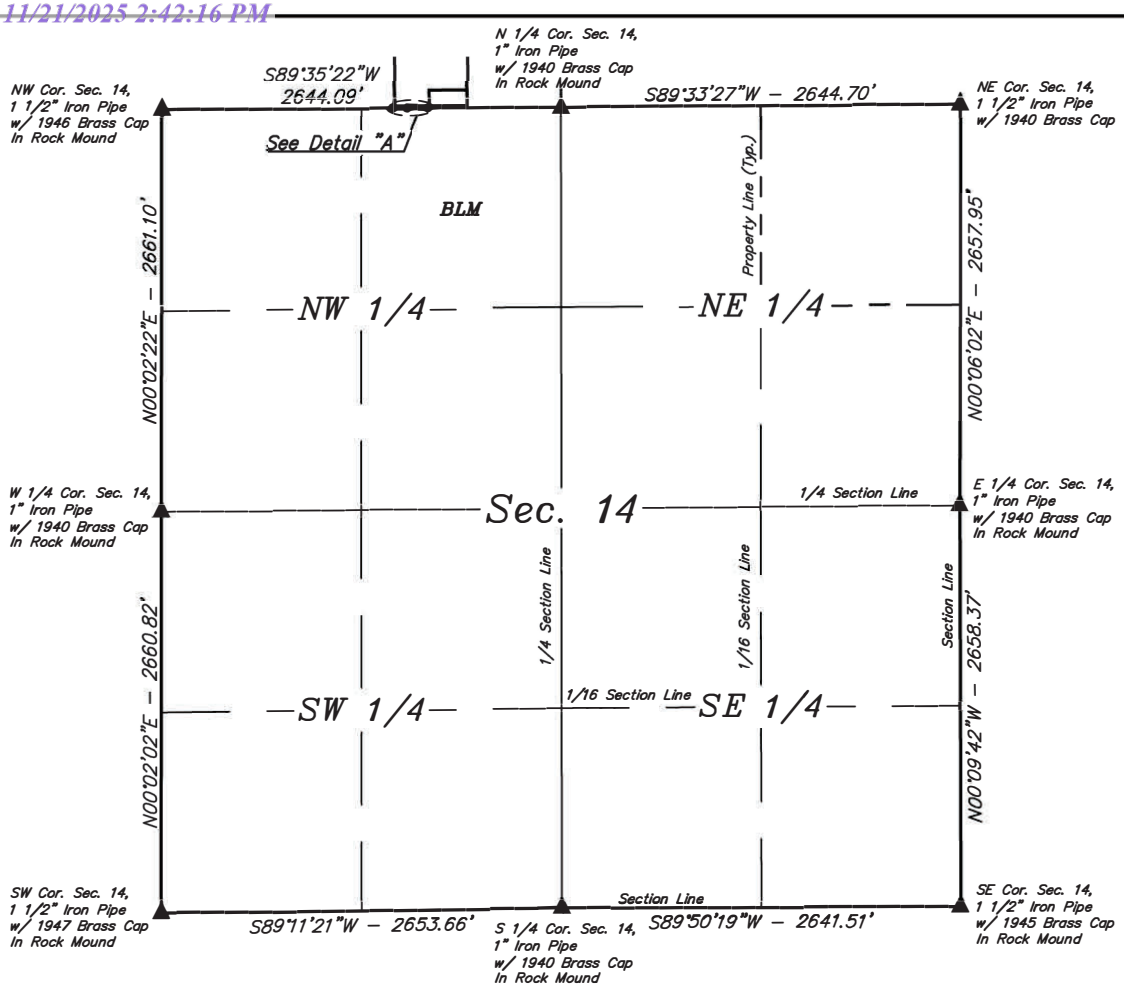
CIMAREX ENERGY CO.

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		

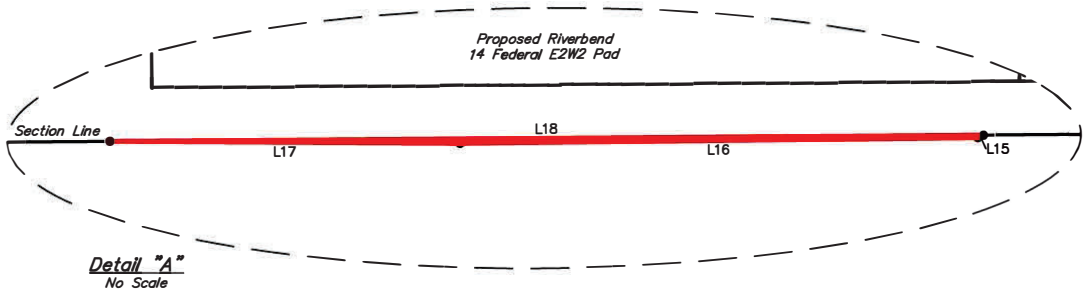
SURFACE USE AREA

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
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23782 — 08-20-24 — PROFESSIONAL SURVEYOR

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

N

CIMAREX ENERGY CO.

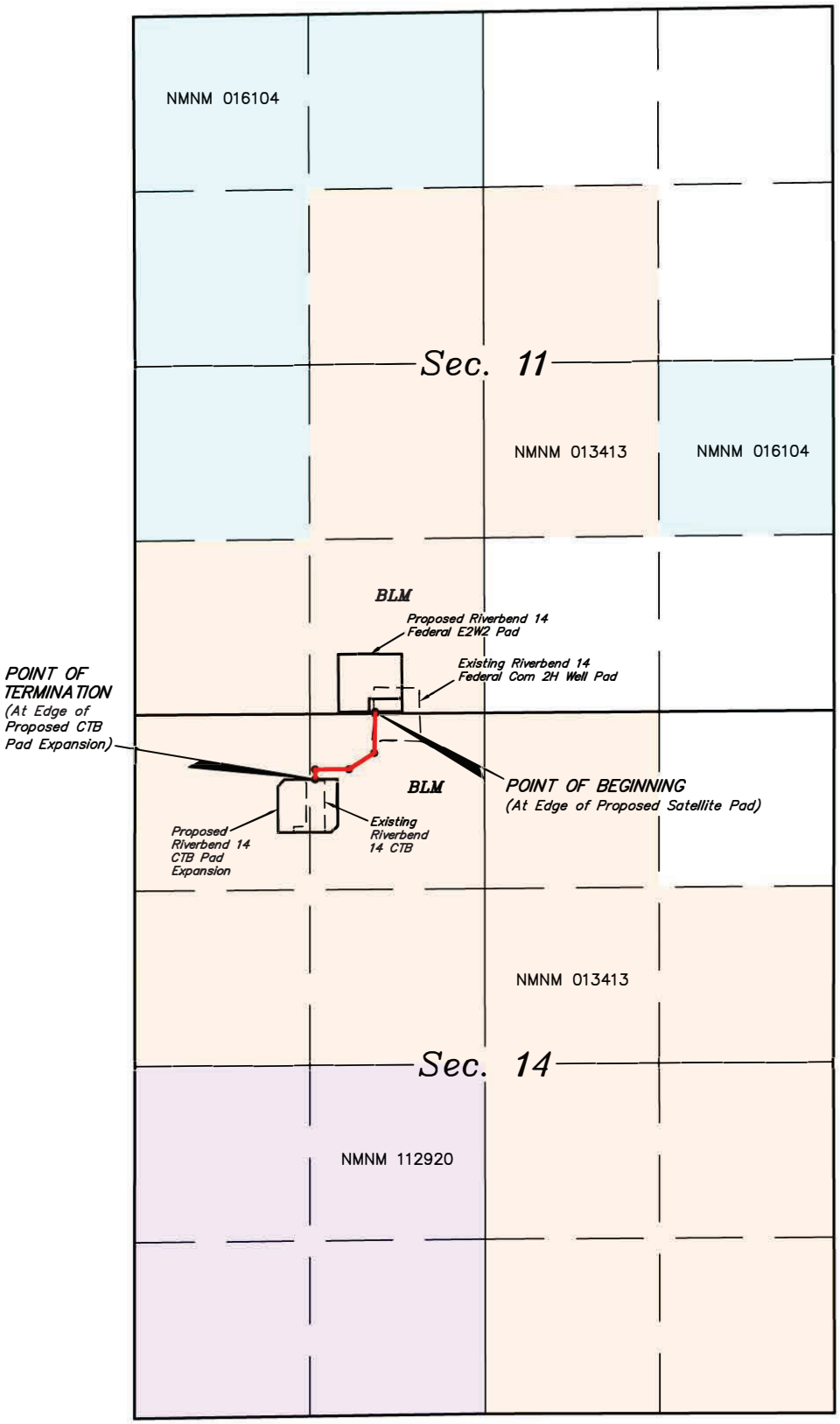
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

SURFACE USE AREA

UINTAH ENGINEERING & LAND SURVEYING

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



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

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

N

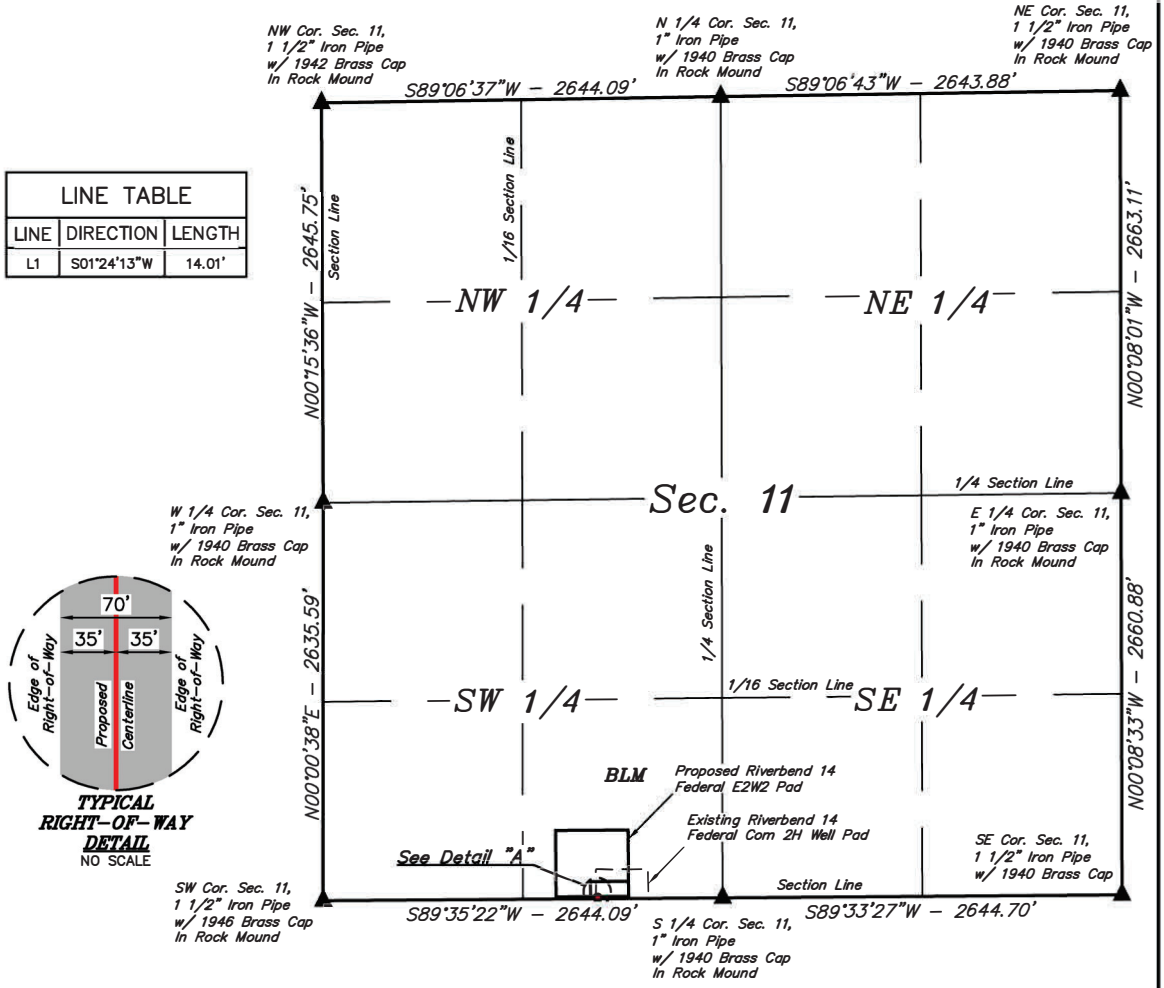
REV: 1 02-24-25 L.T.T. (BULK LINE RE-ROUTE)

CIMAREX ENERGY CO.

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

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

OVERALL BULK LINE



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

TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

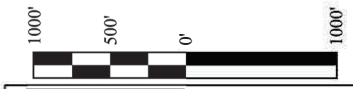
BULK LINE RIGHT-OF-WAY DESCRIPTION

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

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

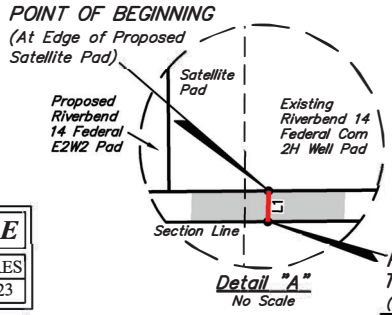
POINT OF BEGINNING BEARS N89°26'26"W 827.06' FROM THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M.

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

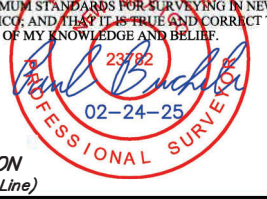


ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 11 (SW 1/4)	14.01	0.85	0.023

▲ = SECTION CORNERS LOCATED.



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



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

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

CIMAREX ENERGY CO.

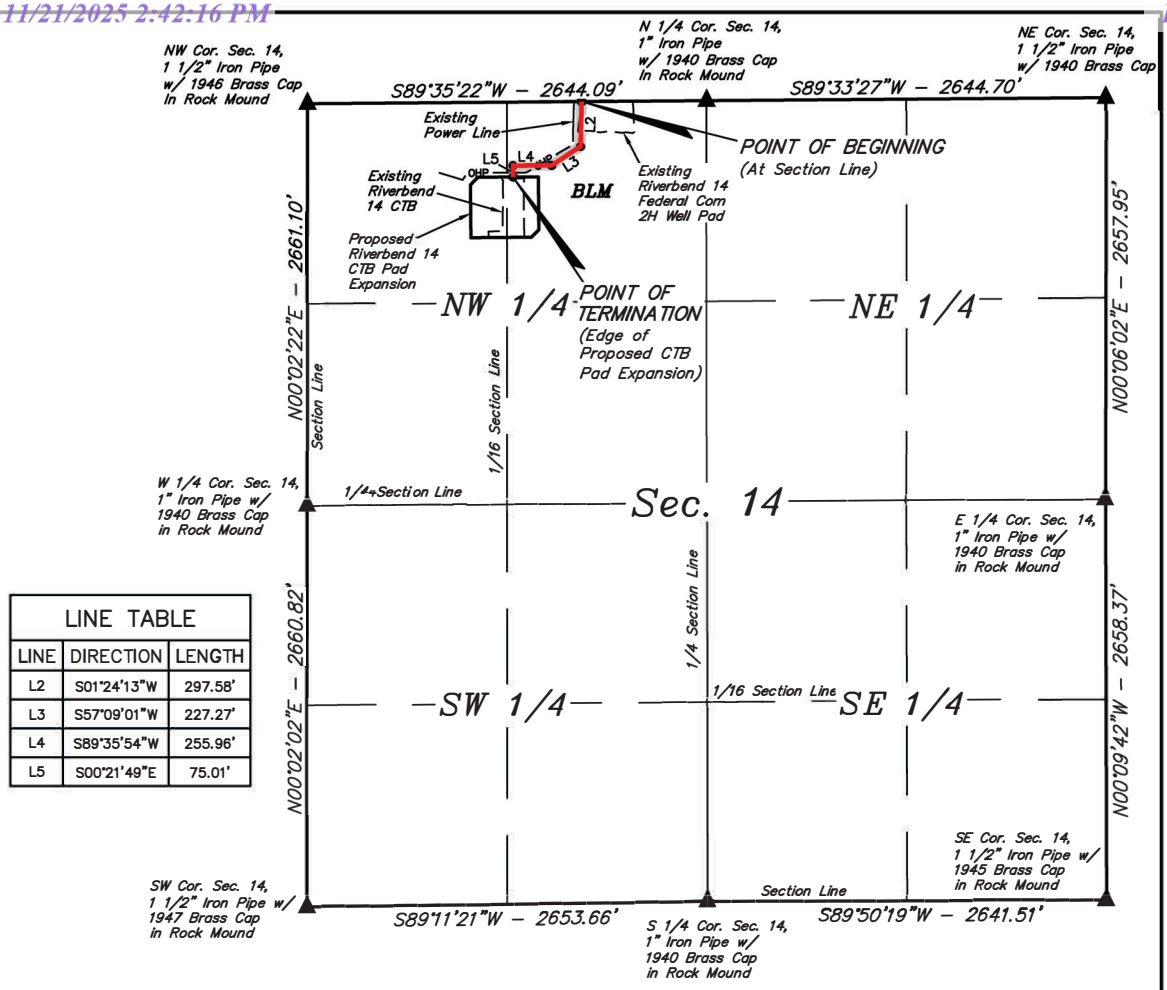
RIVERBEND 14 FEDERAL E2W2
ON BLM LANDS IN
SECTION 11, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

N

UINTAH ENGINEERING & LAND SURVEYING

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



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

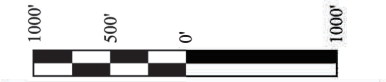
BULK LINE RIGHT–OF–WAY DESCRIPTION

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

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

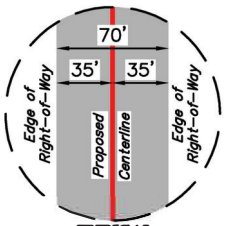
POINT OF BEGINNING BEARS S89°35'22"W 827.38' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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



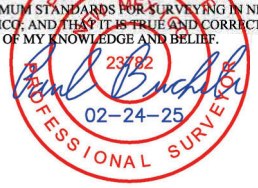
ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 14 (NW 1/4)	855.82	51.87	1.375

▲ = SECTION CORNERS LOCATED.



TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

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



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

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

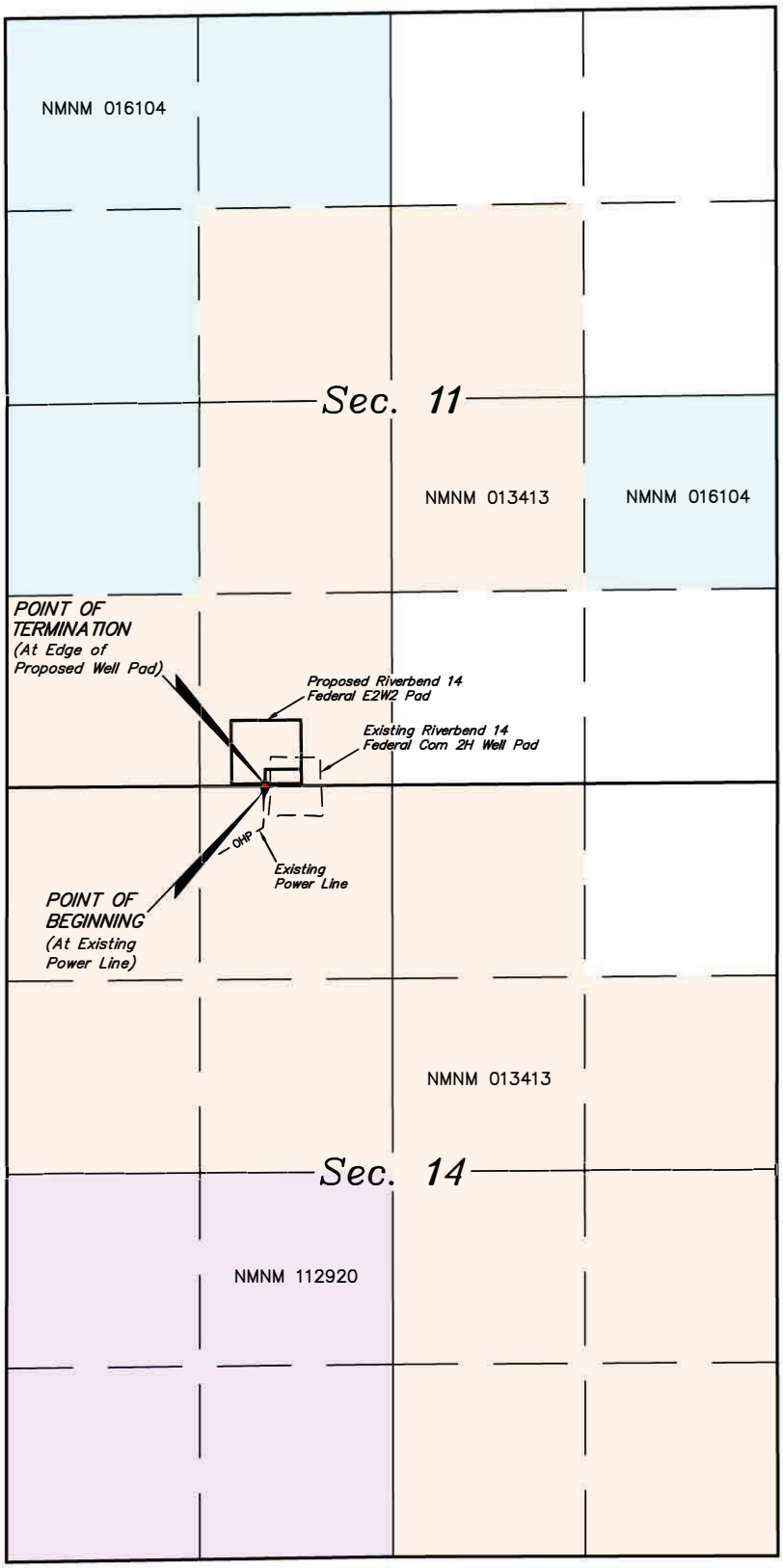
CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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



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

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

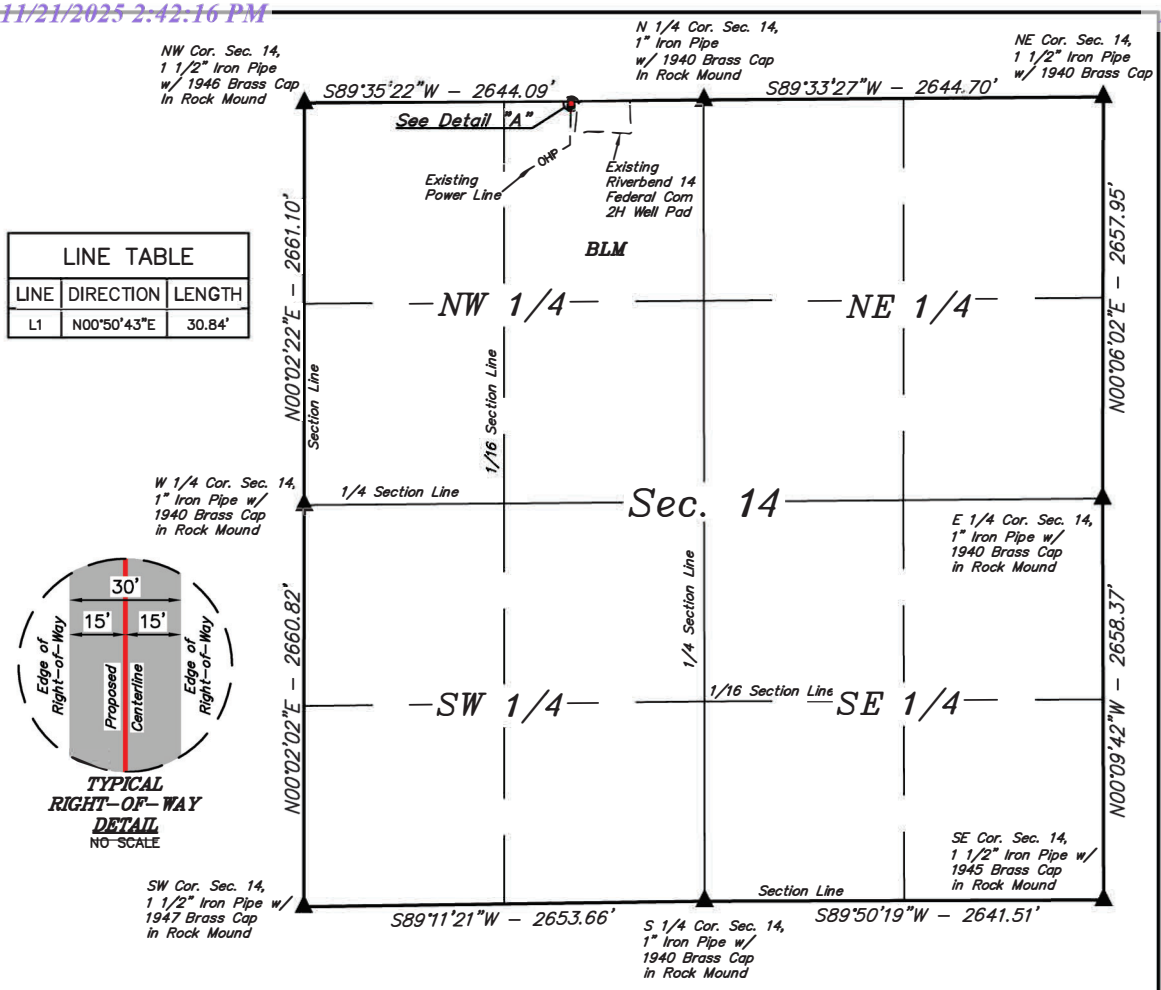
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CIMAREX ENERGY CO.

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

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

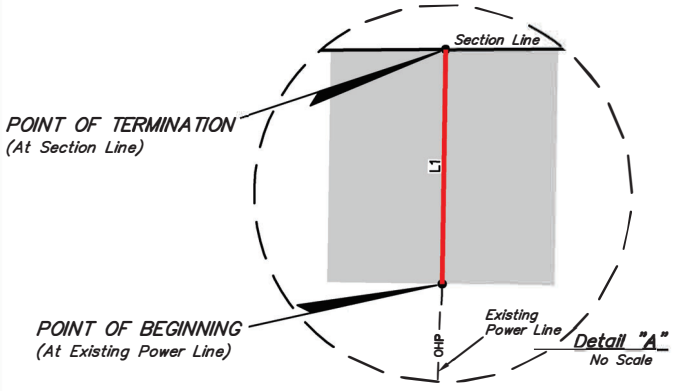
OVERALL POWER LINE



POWER LINE RIGHT–OF–WAY DESCRIPTION

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

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



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

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

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

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

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

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

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

N

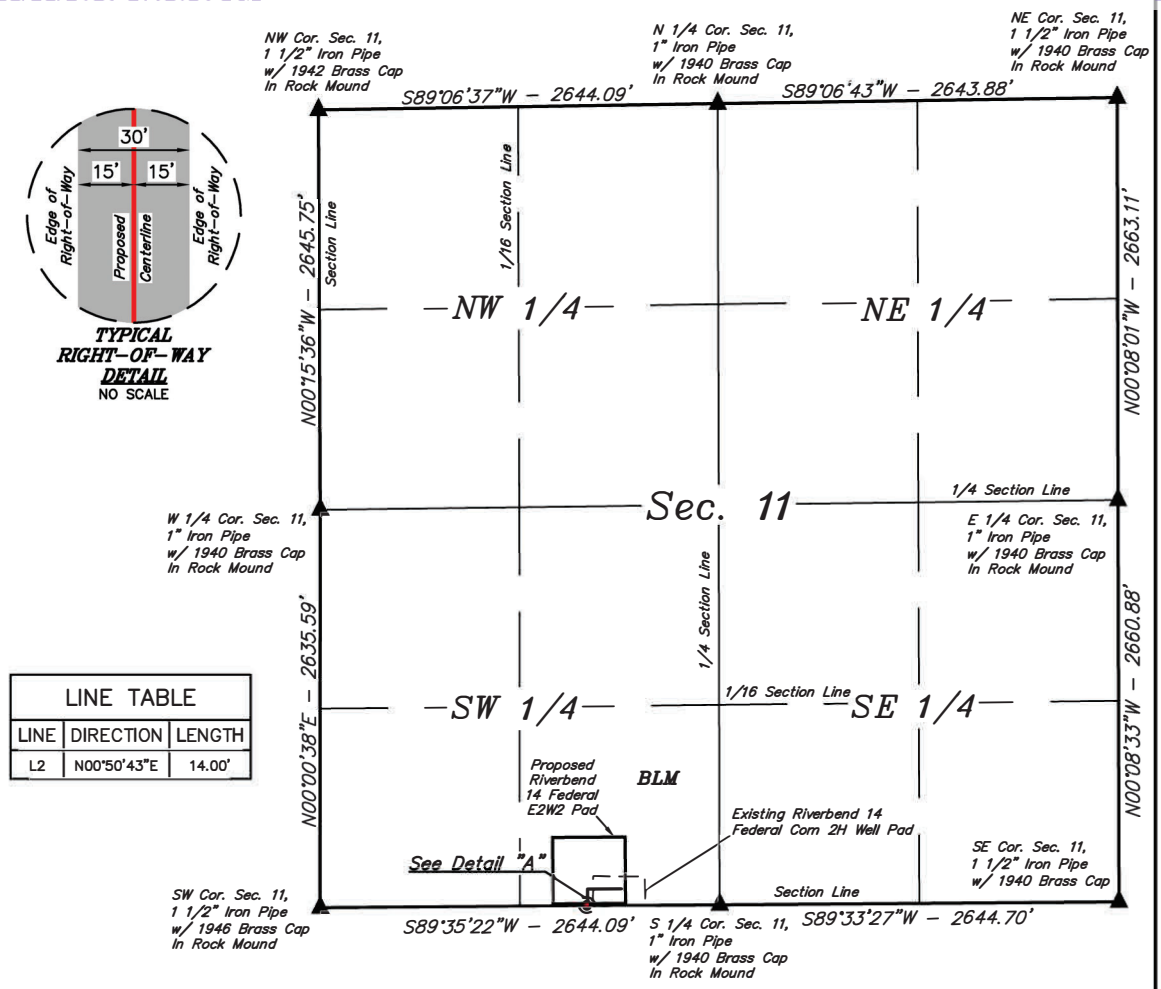
CIMAREX ENERGY CO.

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

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

UINTAH ENGINEERING & LAND SURVEYING

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

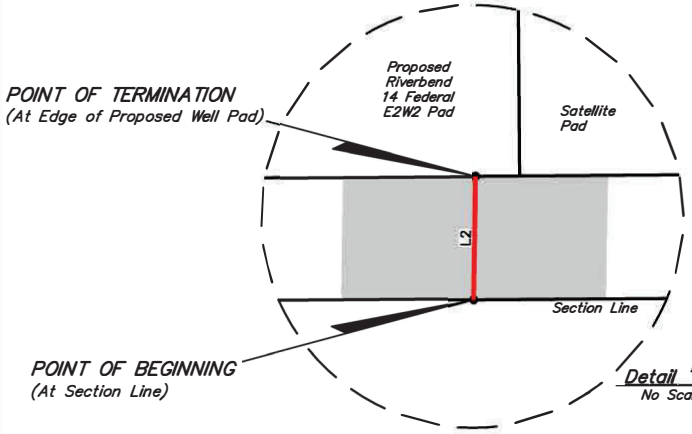


LINE TABLE		
LINE	DIRECTION	LENGTH
L2	N00°50'43"E	14.00'

POWER LINE RIGHT–OF–WAY DESCRIPTION

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

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 11, T25S, R28E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 11 BEARS S89°35'22"W 2644.09', THENCE S89°35'22"W 877.88' ALONG THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 11 TO THE POINT OF BEGINNING; THENCE N00°50'43"E 14.00' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 11 AND THE POINT OF TERMINATION, WHICH BEARS N89°29'48"W 877.69' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 11. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.010 ACRES MORE OR LESS.



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

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

CERTIFICATE
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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
11-12-24

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

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

Sheet 1 of 2

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

N

CIMAREX ENERGY CO.

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

SURVEYED BY	C.S., K.H.	08-07-24	SCALE
DRAWN BY	L.T.T.	11-12-24	1" = 1000'
FILE	C-7853-B1		
POWER LINE R-O-W			EXHIBIT I

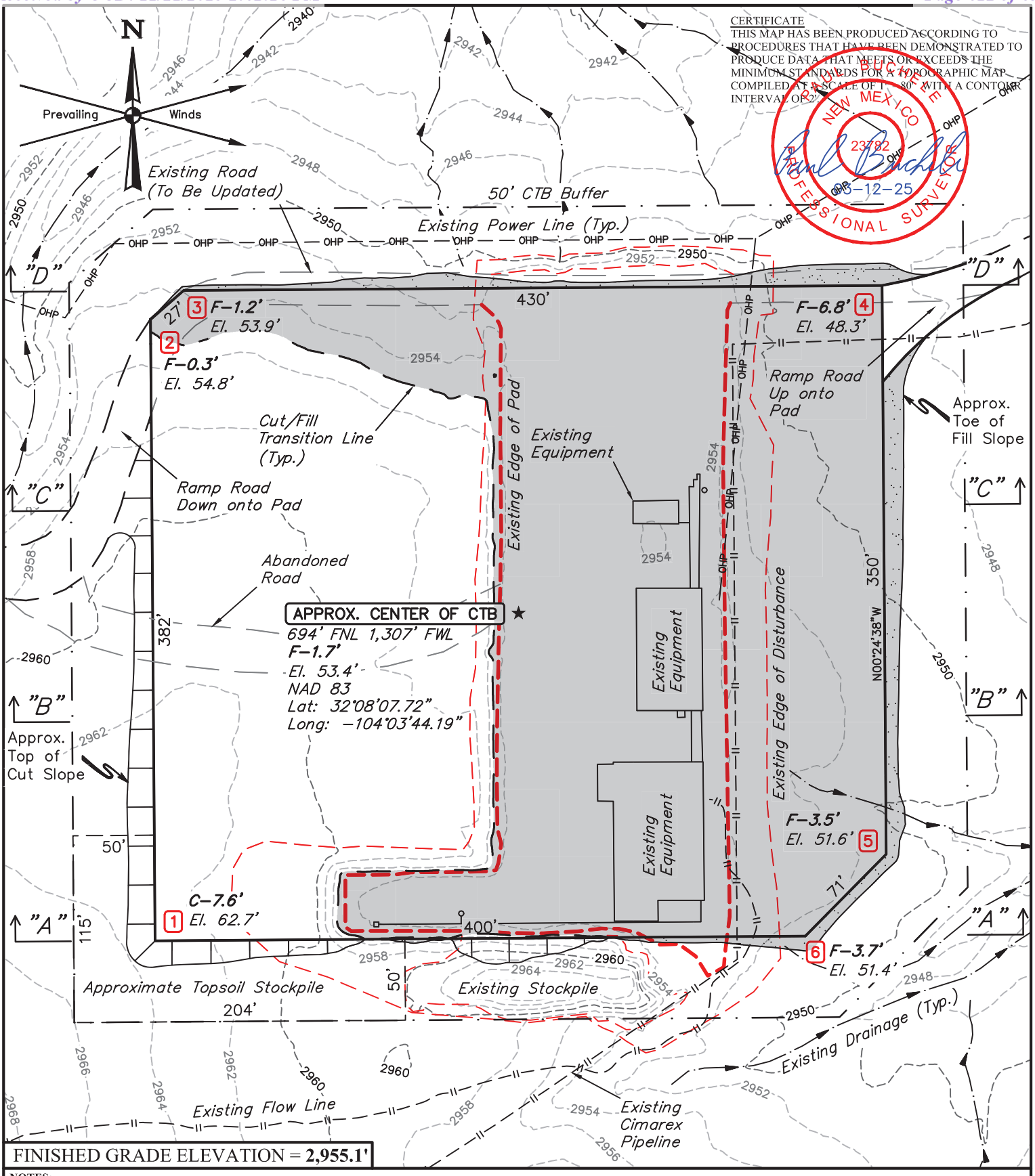
UINTAH ENGINEERING & LAND SURVEYING

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

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)

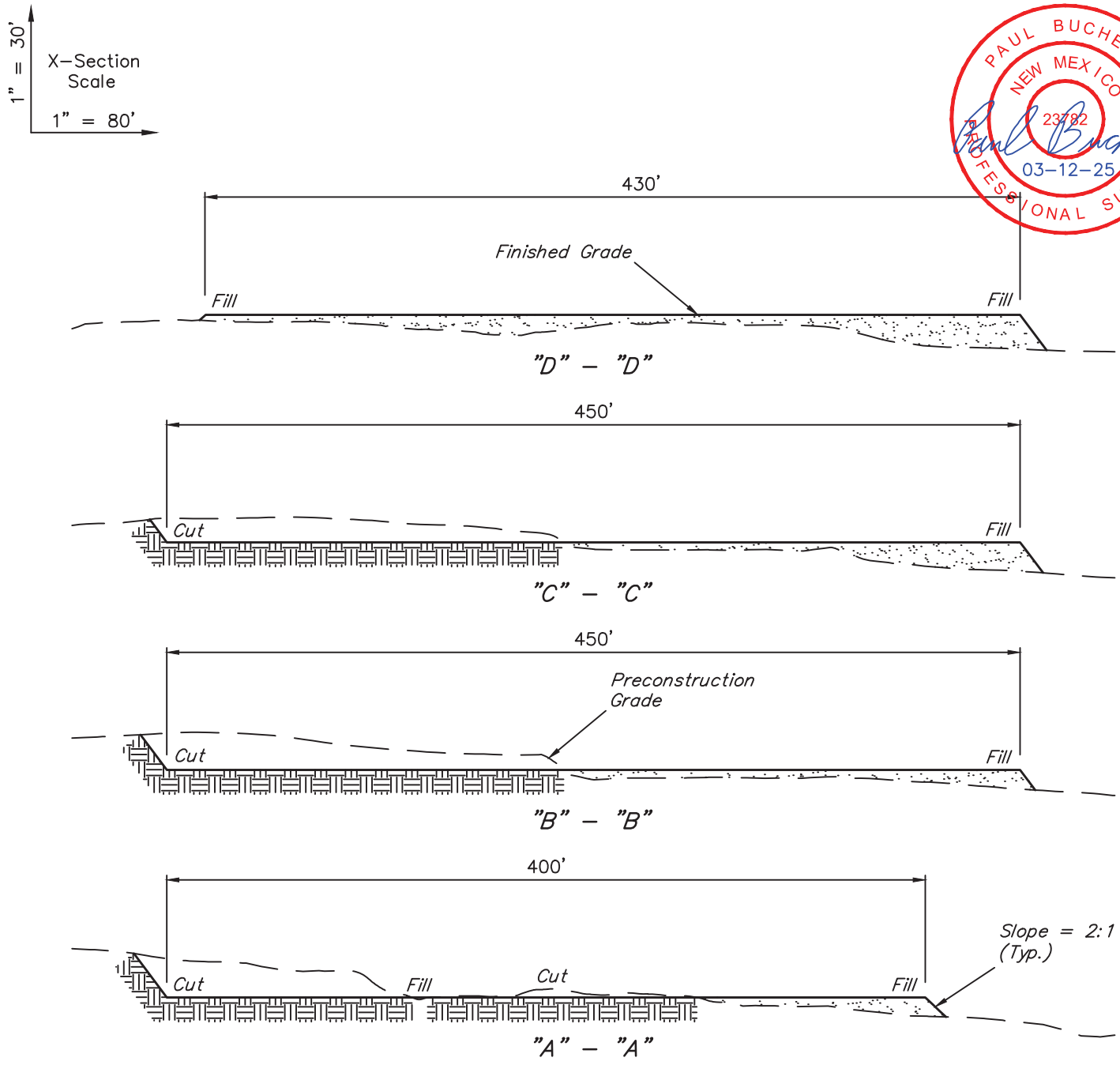
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

UINTAH ENGINEERING & LAND SURVEYING

CIMAREX ENERGY CO.

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

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



PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
03-12-25

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	1,300 Cu. Yds.
REMAINING LOCATION	10,920 Cu. Yds.
TOTAL CUT	**12,220 Cu. Yds.**
FILL	**10,920 Cu. Yds.**
EXCESS MATERIAL	1,300 Cu. Yds.
TOPSOIL	1,300 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
EXISTING PAD DISTURBANCE	NA	±2.383
PROPOSED EXPANSION DISTURBANCE (NEW CONSTRUCTION ONLY)	NA	±2.669
30' WIDE POWER LINE R-O-W DISTURBANCE	±426.73'	±0.294
TOTAL SURFACE USE AREA		**±5.346**

NOTES:

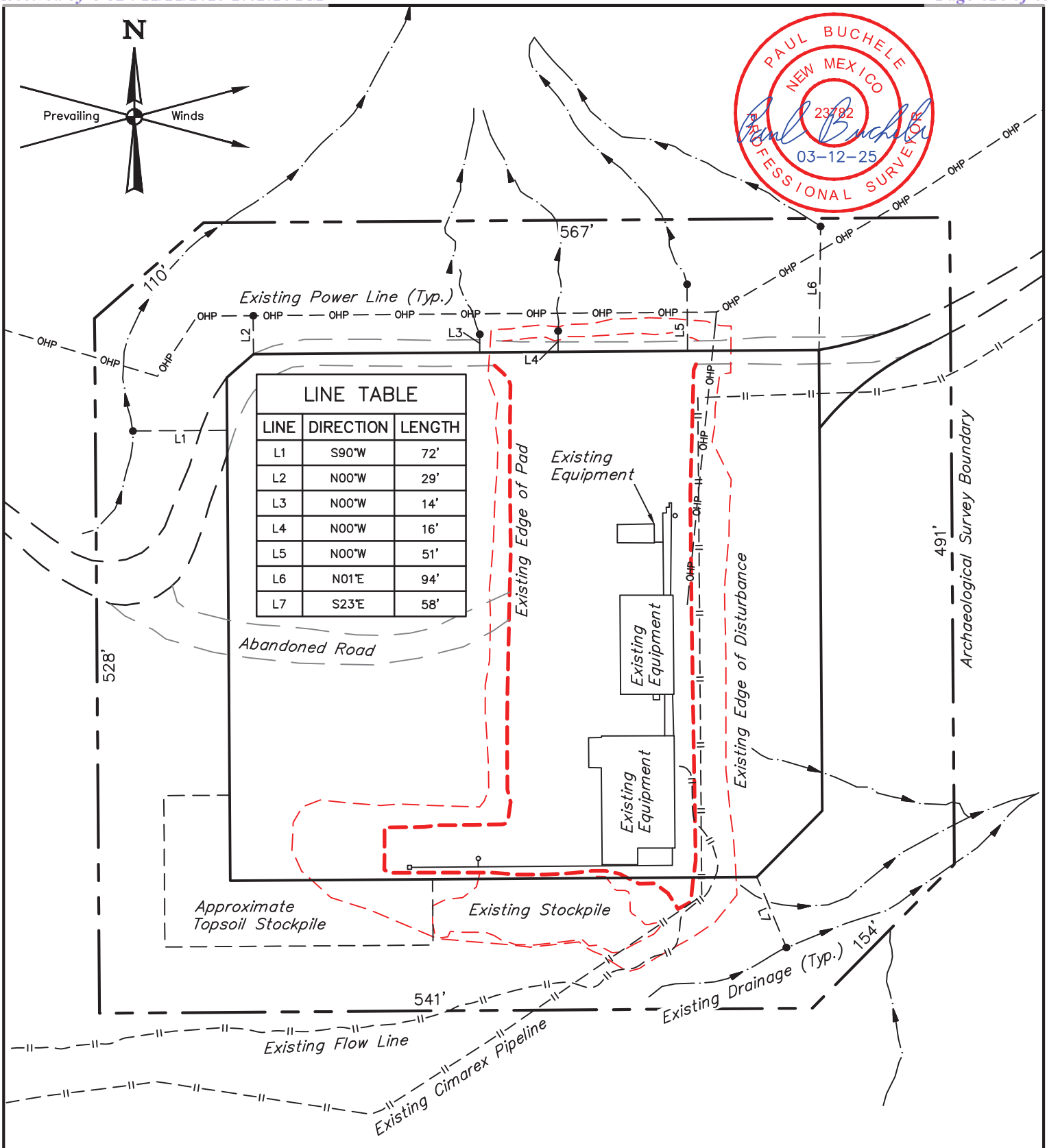
- Fill quantity includes 5% for compaction.

CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	**SCALE**
DRAWN BY	N.R.	03-12-25	AS SHOWN
TYPICAL CROSS SECTIONS			**EXHIBIT F**

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



NOTES:

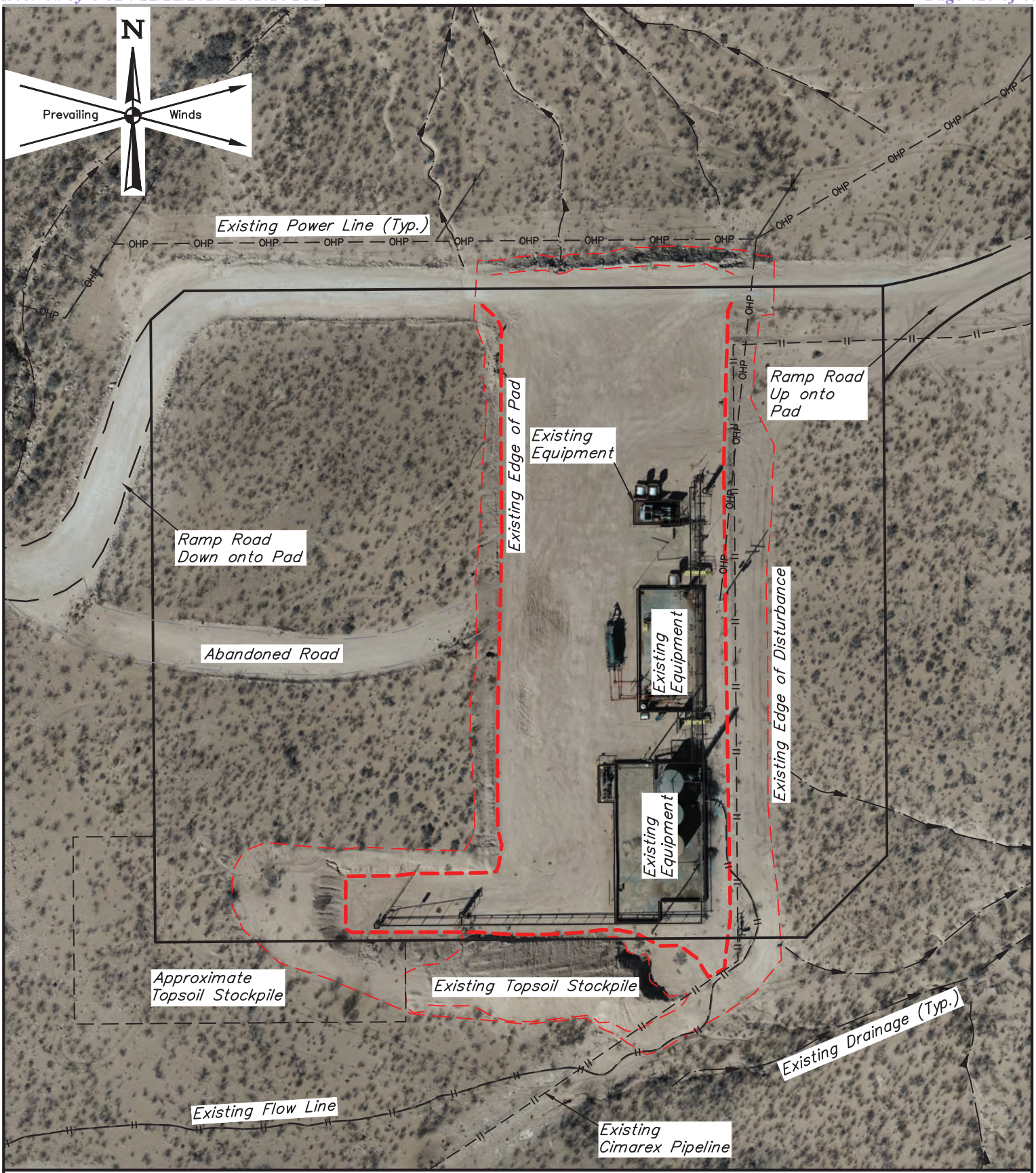
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT F

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



NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

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

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

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

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°), PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION ALONG AN EXISTING ROAD APPROXIMATELY 1.0 MILE TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE 32.1286° AND LONGITUDE -104.0733°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.0 MILES.

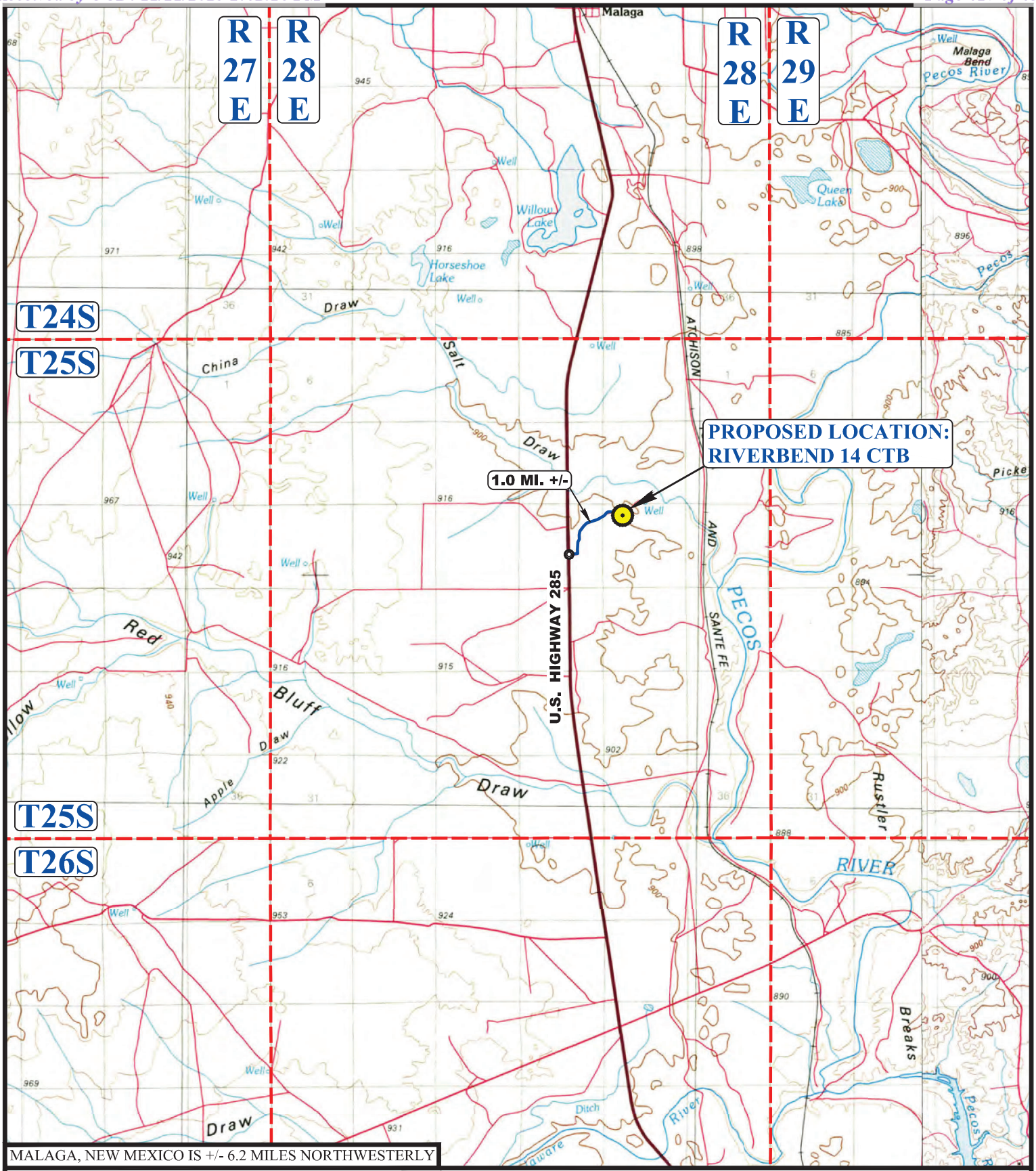
CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	
DRAWN BY	N.R.	03-12-25	

ROAD DESCRIPTION **EXHIBIT F**

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



MALAGA, NEW MEXICO IS +/- 6.2 MILES NORTHWESTERLY

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

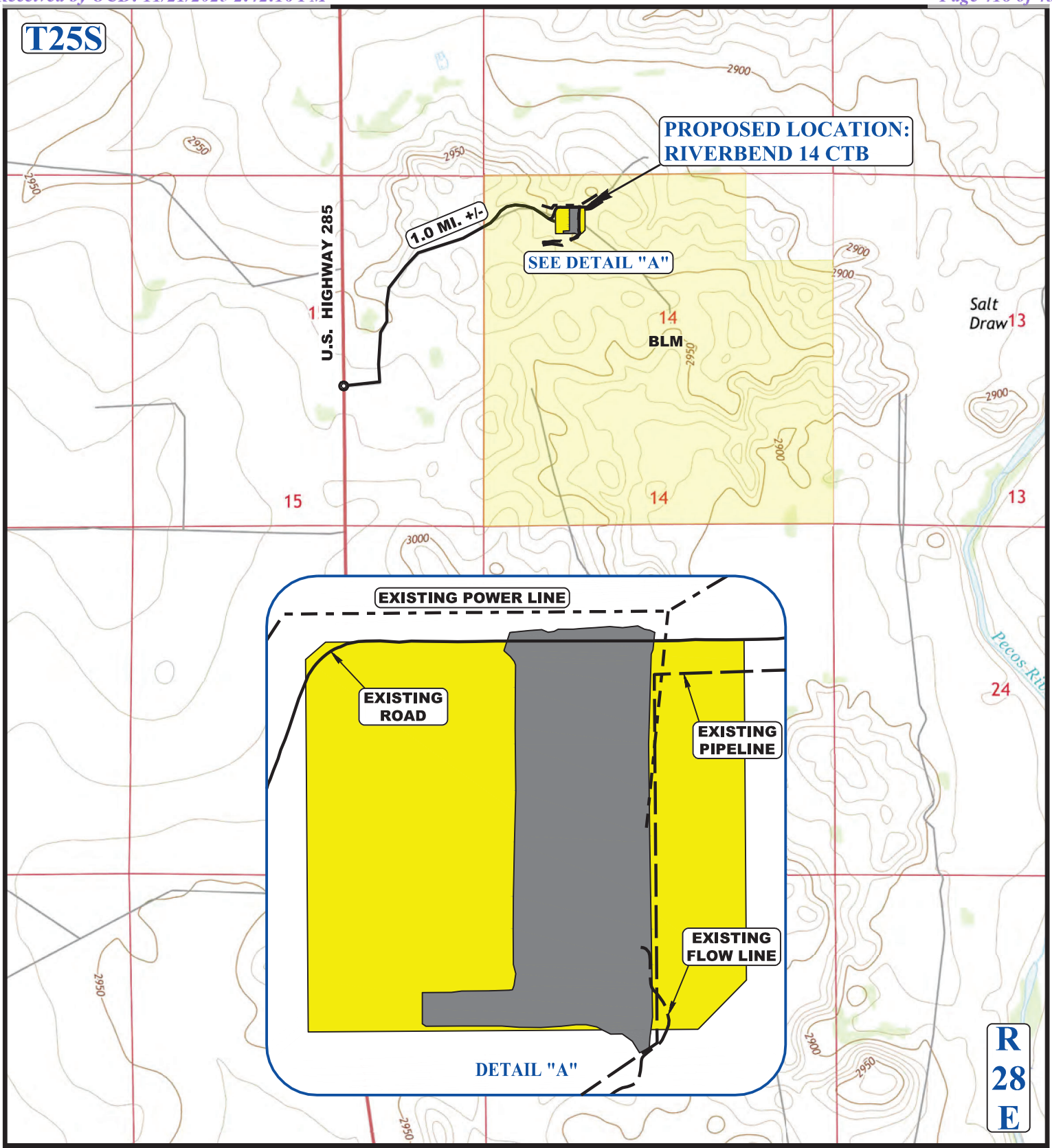
RIVERBEND 14 CTB
694' FNL 1,307' FWL (APPROX. CENTER OF CTB)
N 1/2 NW 1/4, SECTION 14, T25S, R28E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT F**

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE/FLOW LINE

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Vernal, UT 84078 * (435) 789-1017

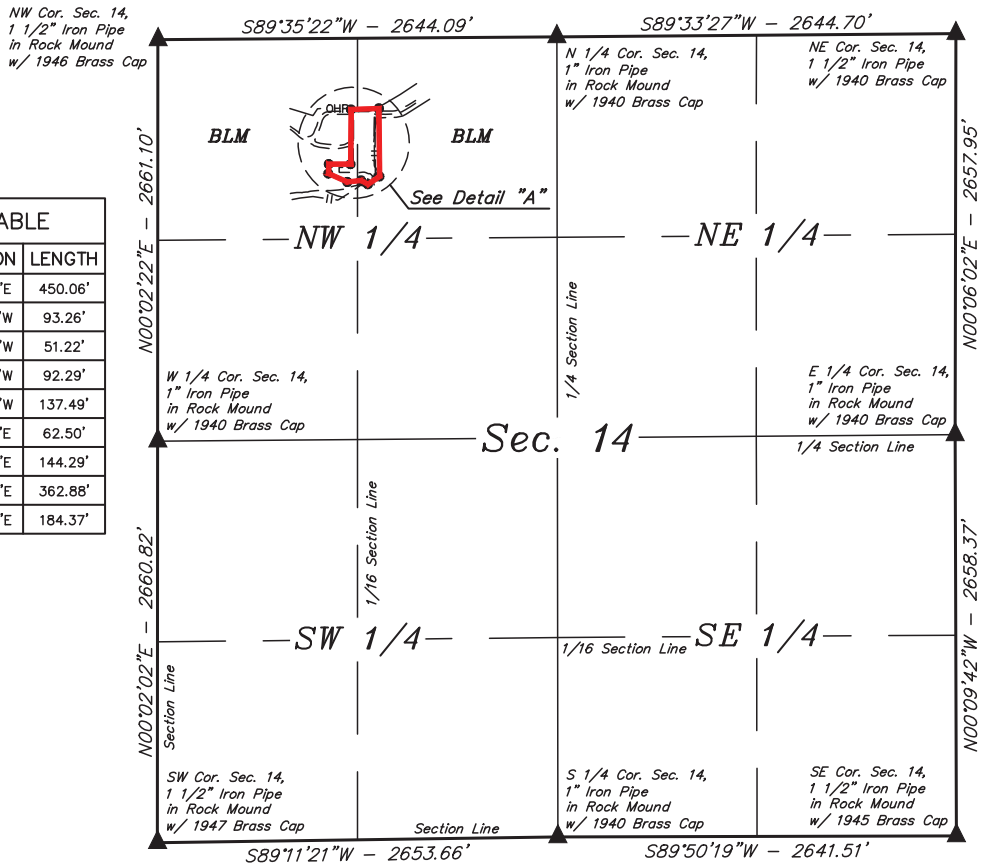
N

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**

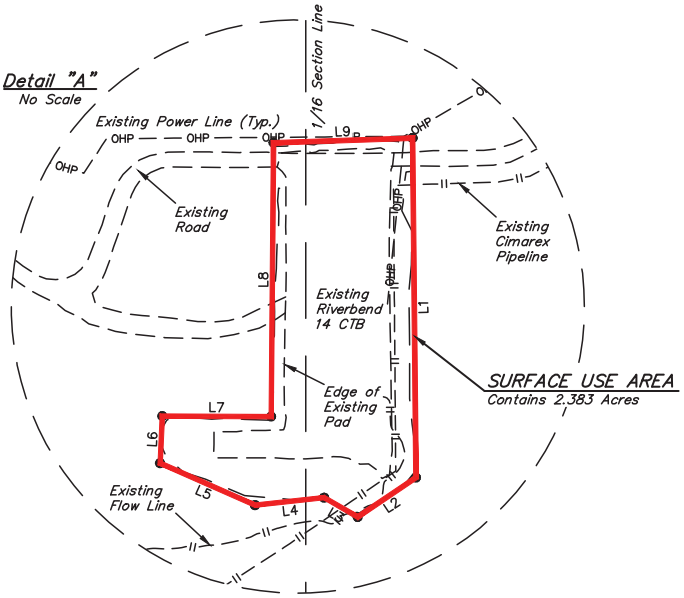


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°34'57"E	450.06'
L2	S55°57'54"W	93.26'
L3	N60°00'46"W	51.22'
L4	S83°50'45"W	92.29'
L5	N66°08'24"W	137.49'
L6	N02°41'43"E	62.50'
L7	S89°45'49"E	144.29'
L8	N00°29'04"E	362.88'
L9	N88°04'08"E	184.37'

EXISTING SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°03'17"W 1272.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°34'57"E 450.06'; THENCE S55°57'54"W 93.26'; THENCE N60°00'46"W 51.22'; THENCE S83°50'45"W 92.29'; THENCE N66°68'24"W 137.49'; THENCE N02°41'43"E 62.50'; THENCE S89°45'49"E 144.29'; THENCE N00°29'04"E 362.88'; THENCE N88°04'08"E 184.37' TO THE POINT OF BEGINNING. CONTAINS 2.383 ACRES MORE OR LESS.

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





ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	2.383

▲ = SECTION CORNERS LOCATED.

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

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

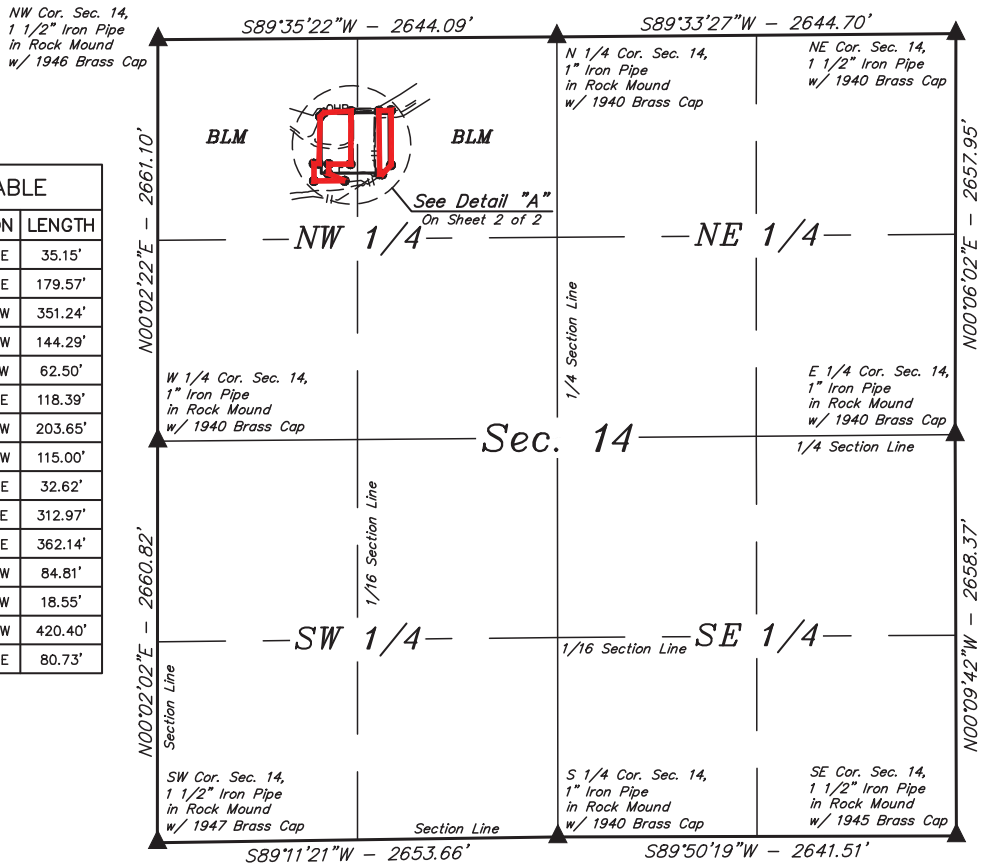
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

N

CIMAREX ENERGY CO.

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

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



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N44°40'42"E	35.15'
L2	N87°00'34"E	179.57'
L3	S00°29'04"W	351.24'
L4	N89°45'49"W	144.29'
L5	S02°41'43"W	62.50'
L6	S66°08'24"E	118.39'
L7	S89°35'22"W	203.65'
L8	N00°24'38"W	115.00'
L9	N89°35'22"E	32.62'
L10	N01°46'53"E	312.97'
L11	S00°04'00"E	362.14'
L12	S43°29'22"W	84.81'
L13	N85°13'30"W	18.55'
L14	N00°34'57"W	420.40'
L15	N88°45'35"E	80.73'

SURFACE USE AREA "A" DESCRIPTION

COMMENCING AT THE NORTHWEST CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 14 BEARS N89°35'22"E 2644.09', THENCE S64°40'24"E 1189.56' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N44°40'42"E 35.15'; THENCE N87°00'34"E 179.57'; THENCE S00°29'04"W 351.24'; THENCE N89°45'49"W 144.29'; THENCE S02°41'43"W 62.50'; THENCE S66°08'24"E 118.39'; THENCE S89°35'22"W 203.65'; THENCE N00°24'38"W 115.00'; THENCE N89°35'22"E 32.62'; THENCE N01°46'53"E 312.97' TO THE POINT OF BEGINNING. CONTAINS 1.946 ACRES MORE OR LESS.

SURFACE USE AREA "B" DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S66°03'17"W 1203.08' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE S00°04'00"E 362.14'; THENCE S43°29'22"W 84.81'; THENCE N85°13'30"W 18.55'; THENCE N00°34'57"W 420.40'; THENCE N88°45'35"E 80.73' TO THE POINT OF BEGINNING. CONTAINS 0.723 ACRES MORE OR LESS.

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

POINT OF BEGINNING "B" BEARS S66°03'17"W 1203.08' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

SURFACE USE AREA "A" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	1.946

SURFACE USE AREA "B" ACREAGE TABLE	
LOCATION	ACRES
SEC. 14 (NW 1/4)	0.723

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

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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

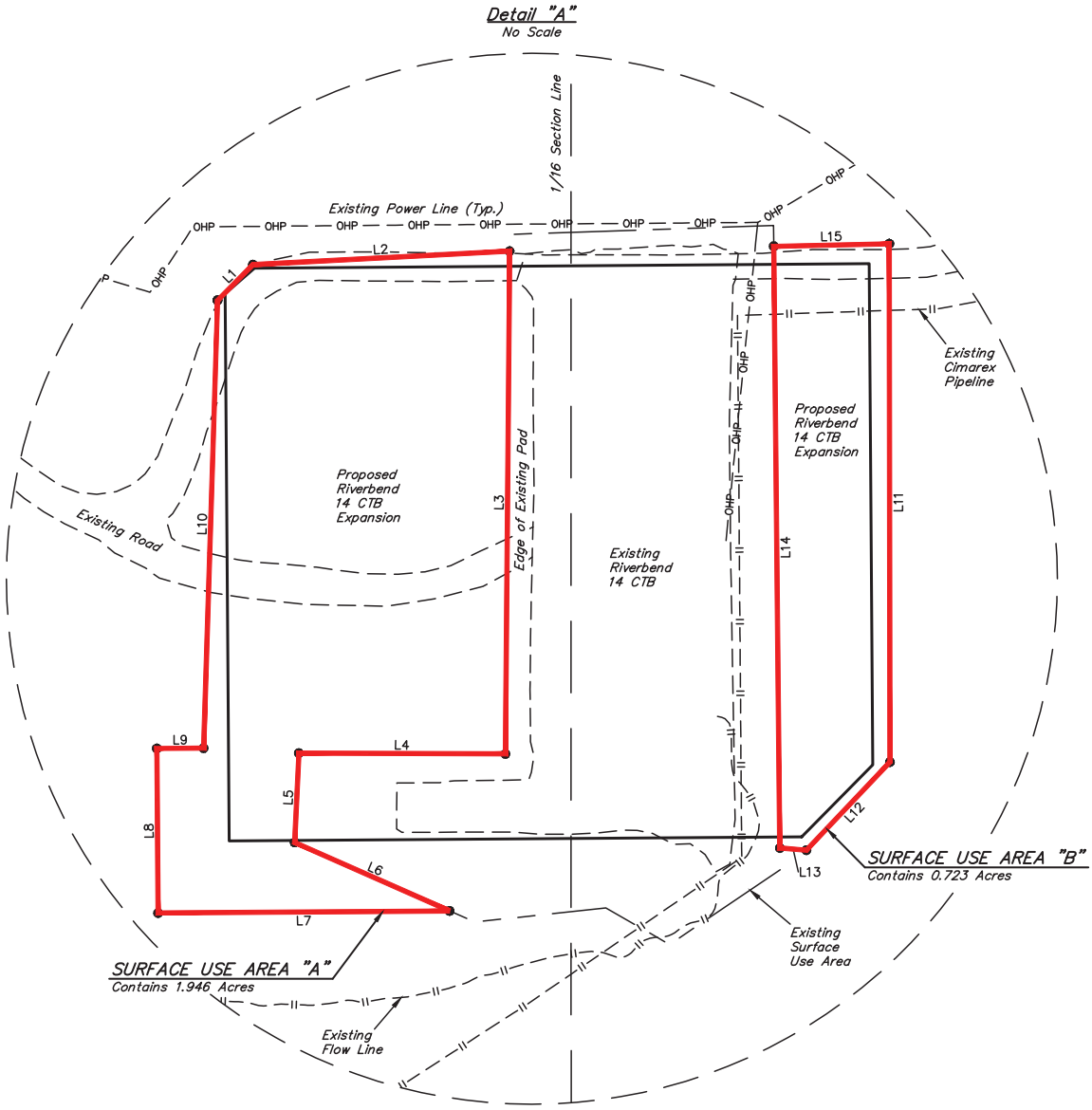
CIMAREX ENERGY CO.

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



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NEW MEXICO 23782 PROFESSIONAL SURVEYOR 03-12-25

Sheet 2 of 2

NOTES:

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

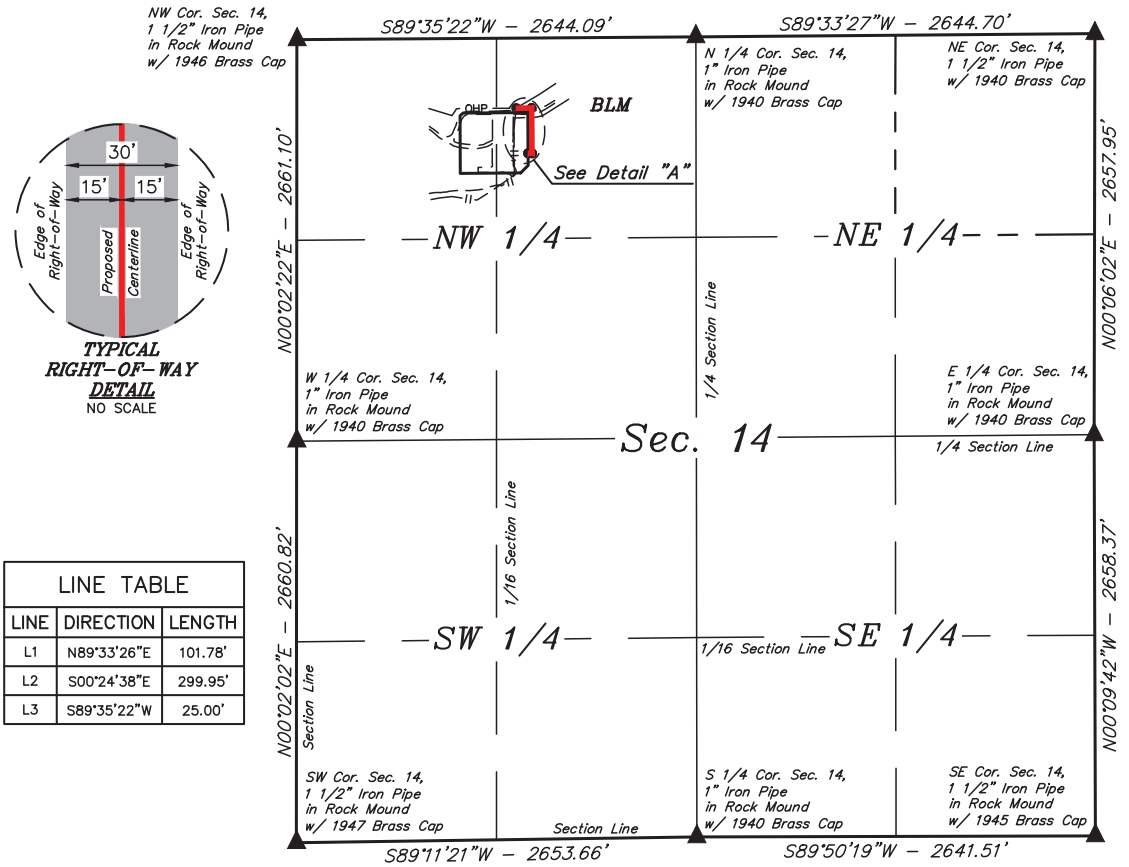
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CIMAREX ENERGY CO.

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

SURVEYED BY	H.R., S.S.	01-04-25	SCALE
DRAWN BY	N.R.	03-12-25	N/A
FILE	C-7901-A2		
EXPANSION SURFACE USE AREA			EXHIBIT F

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



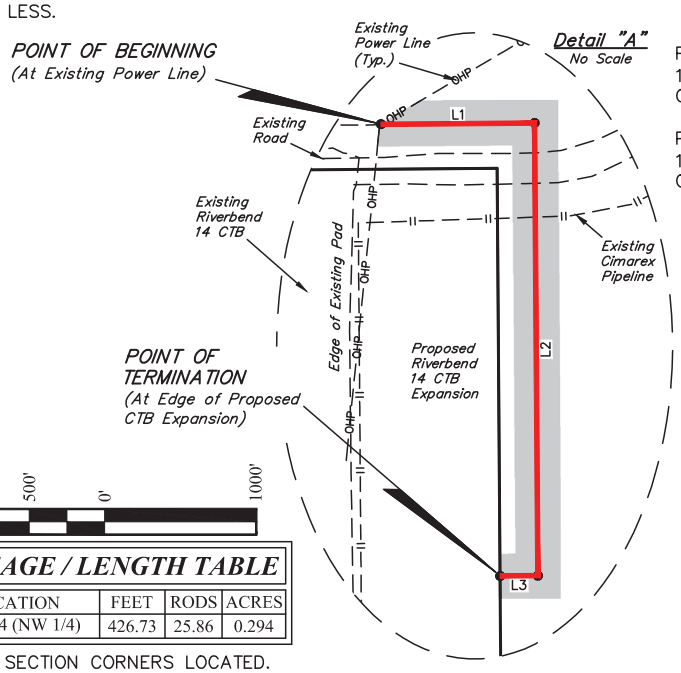
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

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

POWER LINE RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 14 BEARS S89°35'22"W 2644.09', THENCE S68°20'04"W 1281.05' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF BEGINNING; THENCE N89°33'26"E 101.78'; THENCE S00°24'38"E 299.95'; THENCE S89°35'22"W 25.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 14 AND THE POINT OF TERMINATION, WHICH BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 14. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.294 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS S68°20'04"W 1281.05' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

POINT OF TERMINATION BEARS S55°12'39"W 1353.57' FROM THE NORTH 1/4 CORNER OF SECTION 14, T25S, R28E, N.M.P.M.

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

▲ = SECTION CORNERS LOCATED.

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STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR
03-12-25

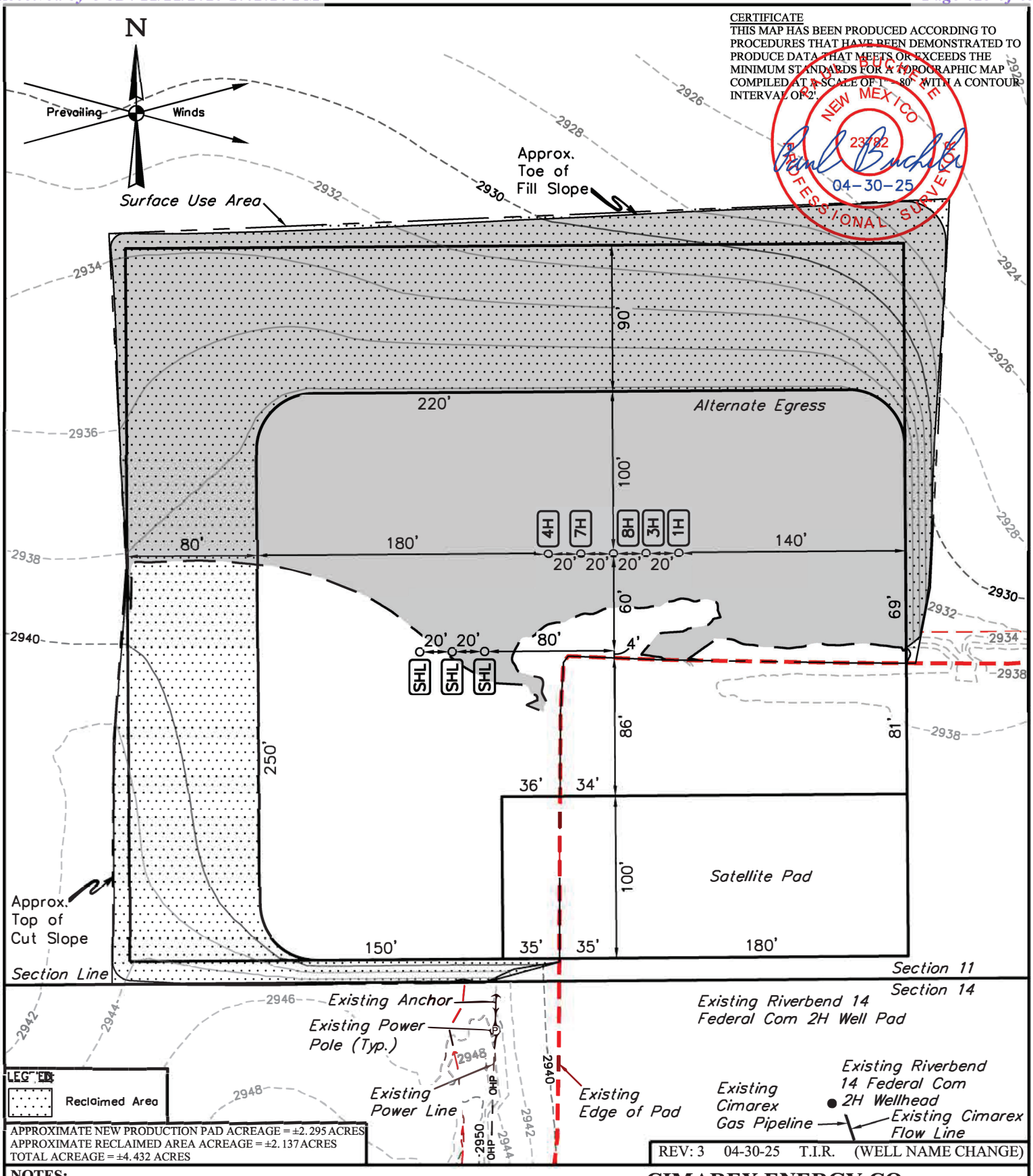
NOTES:
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CIMAREX ENERGY CO.

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

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

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



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

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

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

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

NOTES:
- Contours shown at 2' intervals.

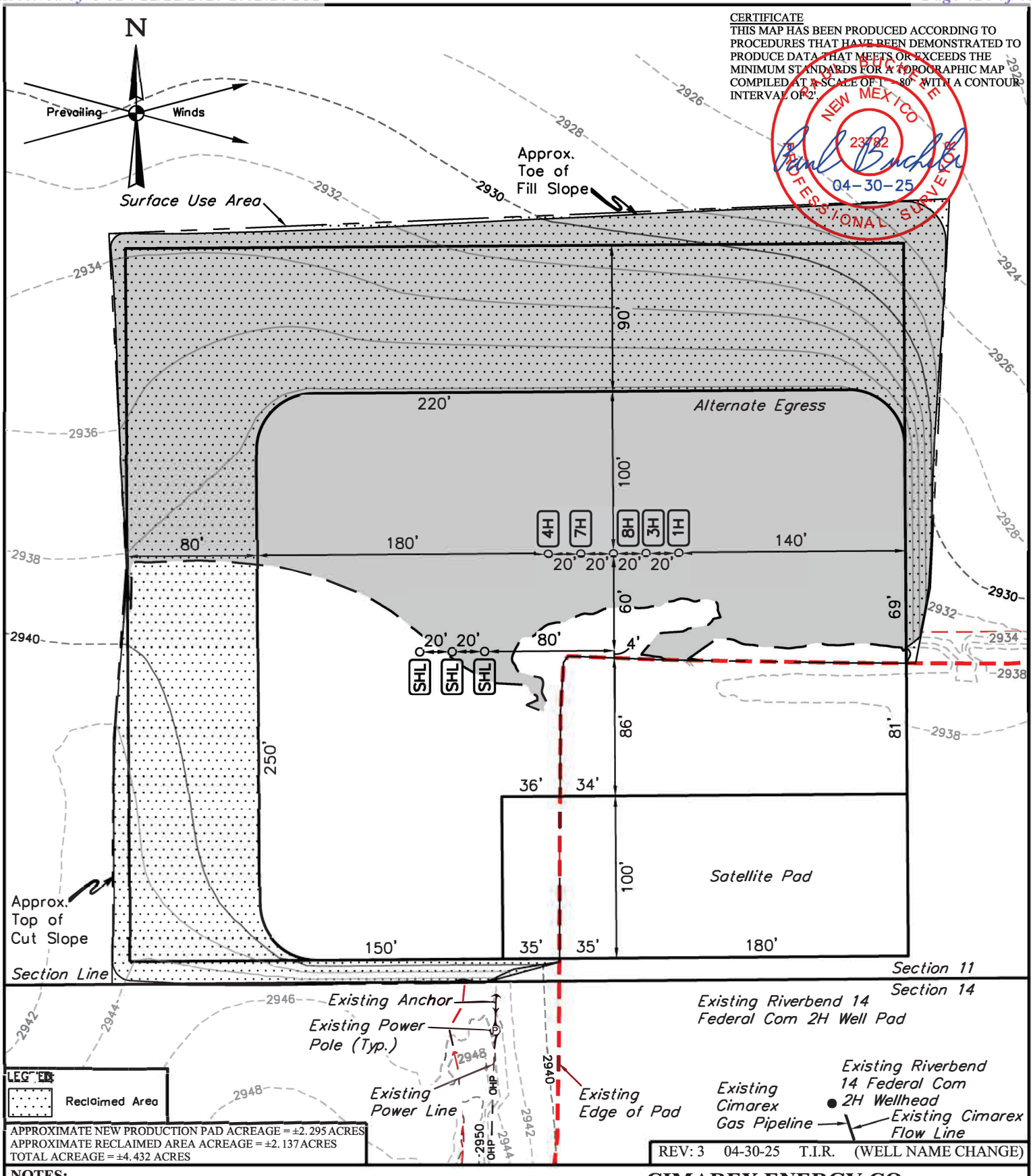
CIMAREX ENERGY CO.

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

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

RECLAMATION DIAGRAM **EXHIBIT P**

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



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

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

APPROXIMATE NEW PRODUCTION PAD ACREAGE = ±2.295 ACRES
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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: 10400105707 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

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

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

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

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

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:** 3H

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:** 3H

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: 10400105707 **Submission Date:** 07/30/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RIVERBEND 14 FEDERAL COM **Well Number:** 3H

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

Highlighted data reflects the most recent changes

Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: NMB001188

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

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

WELL LOCATION INFORMATION

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

Property Code	Property Name	Well Number
	RIVERBEND 14 FEDERAL COM	3H

OGRID No.	Operator Name	Ground Level Elevation
162683	CIMAREX ENERGY CO. OF COLORADO	2,935.0'

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

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
N	11	25S	28E		264 SOUTH	1,860 WEST	32.138126°	-104.060496°	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	776 EAST	32.137192°	-104.051926°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	Infill well	Riverbend 14 Fed Com 1H	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	2,002 EAST	32.137161°	-104.055886°	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	2,002 EAST	32.137161°	-104.055886°	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	776 EAST	32.137192°	-104.051926°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
E2 of Sec. 14	☑ Horizontal ☐ Vertical	2935.0'

OPERATOR CERTIFICATIONS

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

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

Crystal Denson 11/21/2025

Signature Date

Crystal Denson

Printed Name

crystal.denson@coterra.com

Email Address

SURVEYOR CERTIFICATIONS

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

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

Signature and Seal of Professional Surveyor

23782 August 7, 2024

Certificate Number Date of Survey

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

Property Name	Well Number	Drawn By	Revised By
RIVERBEND 14 FEDERAL COM	3H	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°03'37.79" (-104.060496°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'16.81" (32.138003°)
LONGITUDE = -104°03'36.03" (-104.060007°)
STATE PLANE NAD 83 (N.M. EAST)
N: 414092.74' E: 625786.84'
STATE PLANE NAD 27 (N.M. EAST)
N: 414034.65' E: 584602.64'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°08'13.78" (32.137161°)
LONGITUDE = -104°03'21.19" (-104.055886°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°08'13.34" (32.137038°)
LONGITUDE = -104°03'19.43" (-104.055397°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413745.35' E: 627214.86'
STATE PLANE NAD 27 (N.M. EAST)
N: 413687.25' E: 586030.62'

NAD 83 (KOP 2)
LATITUDE = 32°07'29.32" (32.124811°)
LONGITUDE = -104°03'21.09" (-104.055859°)
NAD 27 (KOP 2)
LATITUDE = 32°07'28.88" (32.124688°)
LONGITUDE = -104°03'19.33" (-104.055371°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409252.90' E: 627234.66'
STATE PLANE NAD 27 (N.M. EAST)
N: 409194.89' E: 586050.32'

NAD 83 (NPZ 1)
LATITUDE = 32°07'24.74" (32.123540°)
LONGITUDE = -104°03'18.61" (-104.055168°)
NAD 27 (NPZ 1)
LATITUDE = 32°07'24.30" (32.123417°)
LONGITUDE = -104°03'16.85" (-104.054680°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408791.01' E: 627449.67'
STATE PLANE NAD 27 (N.M. EAST)
N: 408733.01' E: 586265.31'

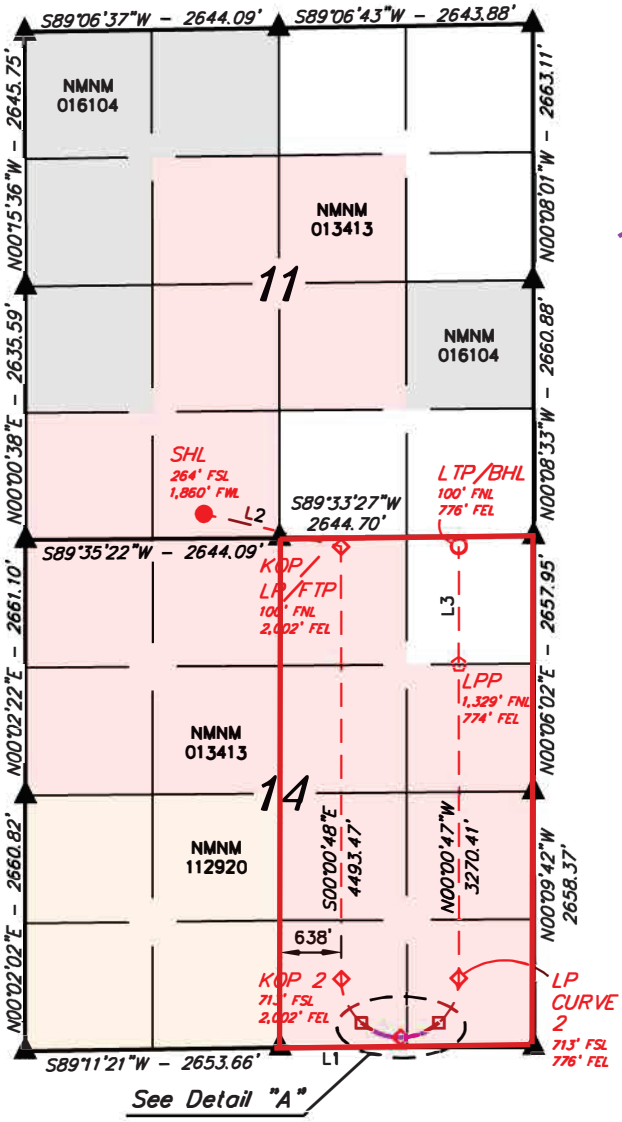
NAD 83 (PEAK CURVE 2)
LATITUDE = 32°07'23.28" (32.123134°)
LONGITUDE = -104°03'13.93" (-104.053871°)
NAD 27 (PEAK CURVE 2)
LATITUDE = 32°07'22.84" (32.123011°)
LONGITUDE = -104°03'12.18" (-104.053382°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408644.34' E: 627851.80'
STATE PLANE NAD 27 (N.M. EAST)
N: 408586.33' E: 586667.44'

NAD 83 (NPZ 2)
LATITUDE = 32°07'24.78" (32.123550°)
LONGITUDE = -104°03'09.28" (-104.052577°)
NAD 27 (NPZ 2)
LATITUDE = 32°07'24.34" (32.123427°)
LONGITUDE = -104°03'07.52" (-104.052089°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408796.62' E: 628251.84'
STATE PLANE NAD 27 (N.M. EAST)
N: 408738.60' E: 587067.47'

NAD 83 (LP CURVE 2)
LATITUDE = 32°07'29.37" (32.124826°)
LONGITUDE = -104°03'06.84" (-104.051900°)
NAD 27 (LP CURVE 2)
LATITUDE = 32°07'28.93" (32.124703°)
LONGITUDE = -104°03'05.08" (-104.051411°)
STATE PLANE NAD 83 (N.M. EAST)
N: 409261.48' E: 628460.37'
STATE PLANE NAD 27 (N.M. EAST)
N: 409203.45' E: 587276.00'

NAD 83 (LPP)
LATITUDE = 32°08'01.73" (32.133814°)
LONGITUDE = -104°03'06.91" (-104.051918°)
NAD 27 (LPP)
LATITUDE = 32°08'01.29" (32.133691°)
LONGITUDE = -104°03'05.15" (-104.051430°)
STATE PLANE NAD 83 (N.M. EAST)
N: 412531.15' E: 628445.97'
STATE PLANE NAD 27 (N.M. EAST)
N: 412473.06' E: 587261.68'

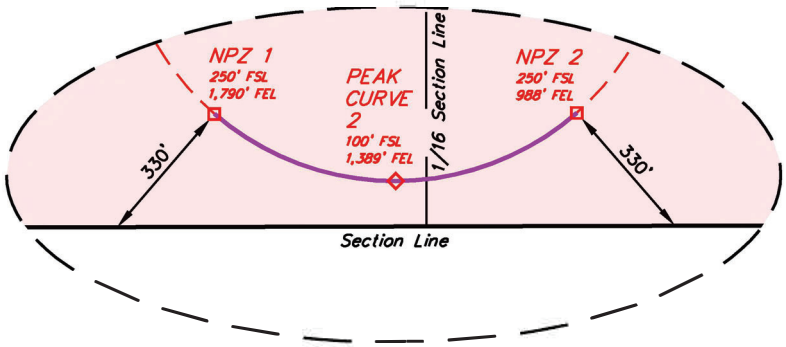
NAD 83 (LTP/BHL)
LATITUDE = 32°08'13.89" (32.137192°)
LONGITUDE = -104°03'06.93" (-104.051926°)
NAD 27 (LTP/BHL)
LATITUDE = 32°08'13.45" (32.137069°)
LONGITUDE = -104°03'05.17" (-104.051437°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413759.94' E: 628440.56'
STATE PLANE NAD 27 (N.M. EAST)
N: 413701.83' E: 587256.29'



● = 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°05'17"E	1469.98'
L3	N00°00'47"W	1229.07'

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: 528926
	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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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: 528926
	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