AFMSS

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

Application for Permit to Drill

APD Package Report

Date Printed:

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

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

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

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 2 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 3 file(s)
  -- Casing Design Assumptions and Worksheet(s): 6 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)
  -- Other Facets: 4 file(s)
  -- Other Variances: 1 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 2 file(s)
  -- New Road Map: 2 file(s)
  -- Attach Well map: 2 file(s)
  -- Production Facilities map: 5 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Well Site Layout Diagram: 2 file(s)
  -- Recontouring attachment: 2 file(s)
  -- Existing Vegetation at the well pad attachment: 2 file(s)
  -- Existing Vegetation at the road attachment: 2 file(s)
  -- Existing Vegetation Community at the pipeline attachment: 2 file(s)
  -- Existing Vegetation Community at other disturbances attachment: 1 file(s)

CONFIDENTIAL

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments
  -- None

Form 3160-3
(October 2024)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No. 30-025-57100

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory

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

At surface

At proposed prod. zone

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

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

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

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

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

25. Signature	Name *(Printed/Typed)*	Date
Title		
Approved by *(Signature)*	Name *(Printed/Typed)*	Date
Title	Office	

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 10/21/2026

Confidential

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.

Released to Imaging: 10/29/2026 11:09:48 AM

Approval Date: 10/21/2026

Confidential

Additional Operator Remarks

Location of Well

0. SHL: SESE / 339 FSL / 1137 FEL / TWSP: 20S / RANGE: 33E / SECTION: 2 / LAT: 32.595868 / LONG: -103.629036 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 1780 FWL / TWSP: 20S / RANGE: 33E / SECTION: 2 / LAT: 32.595212 / LONG: -103.631123 (TVD: 10252 feet, MD: 10612 feet)

PPP: SWSE / 0 FSL / 1767 FEL / TWSP: 19S / RANGE: 33E / SECTION: 35 / LAT: 32.609424 / LONG: -103.631086 (TVD: 10252 feet, MD: 15422 feet)

PPP: SWNE / 2639 FSL / 1770 FEL / TWSP: 19S / RANGE: 33E / SECTION: 35 / LAT: 32.616677 / LONG: -103.631067 (TVD: 10252 feet, MD: 18061 feet)

PPP: SWNE / 2635 FNL / 1775 FEL / TWSP: 19S / RANGE: 33E / SECTION: 26 / LAT: 32.631189 / LONG: -103.631028 (TVD: 10252 feet, MD: 23341 feet)

PPP: NWNE / 1321 FNL / 1770 FEL / TWSP: 19S / RANGE: 33E / SECTION: 35 / LAT: 32.620308 / LONG: -103.631057 (TVD: 10252 feet, MD: 19382 feet)

PPP: SWSE / 0 FSL / 1770 FEL / TWSP: 19S / RANGE: 33E / SECTION: 26 / LAT: 32.623939 / LONG: -103.631048 (TVD: 10252 feet, MD: 20703 feet)

BHL: NWNE / 100 FNL / 1780 FEL / TWSP: 19S / RANGE: 33E / SECTION: 26 / LAT: 32.638158 / LONG: -103.63101 (TVD: 10252 feet, MD: 25693 feet)

BLM Point of Contact

Name: CANDY VIGIL
Title: LLE
Phone: (575) 234-5982
Email: CVIGIL@BLM.GOV

CONFIDENTIAL

Laguna Deep 2 26 FEDERAL COM 223H

APD - Geology COAs (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.

- H2S has been reported within one mile of the proposed project. Measurements up to 1 ppm were recorded from the Yates and Bone Springs.

Drilling COAs within Known Potash Leasing Area:

Any oil and gas well operator within the KPLA must notify both potash operators as soon as possible if any of the following conditions are encountered during oil and gas operations: (1) Indication of any well collision event, (2) Suspected well fluid flow (oil, gas, or produced water) outside of casing, (3) Sustained annulus pressure between the 1st intermediate and next innermost casing string in excess of 500 psi above the baseline pressure of the well, or above 1500 psi total, (4) Increasing pressure buildup rates (psi/day) across multiple successive bleed-off cycles on the annulus between the 1st intermediate and next innermost casing during well production, or (5) Sustained losses in excess of 50% through the salt interval during drilling.

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

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT – CARLSBAD FIELD OFFICE

Applicant: COTERRA ENERGY OPERATING CO

Project Title: LAGUNA DEEP 2-26 FEDERAL COM Well Additions

Original EA #: DOI-BLM-NM-P020-2026-1372-EA; Prepared by EA Author

NEPA #: DOI-BLM-NM-P020-2027-0035-CE

Location: Lea County, New Mexico

Lease Number: NMNM27572

Project Type: APDs

Surface Use Conditions of Approval (COAs)

Failure of the operator to comply with these requirements may result in the assessment of 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.*

Pad Name	Well Name(s) with Location (with SHL & BHL[1])
LAGUNA DEEP-Anaconda W2	LAGUNA DEEP 2-26 FEDERAL COM 221H SHL: 170 feet FSL and 1429 feet FWL, Section 2, T. 20 S., R. 33 E. BHL: 100 feet FNL and 710 feet FWL, Section 26, T. 19 S., R. 33 E.
LAGUNA DEEP-Anaconda W2	LAGUNA DEEP 2-26 FEDERAL COM 222H SHL: 170 feet FSL and 1469 feet FWL, Section 2, T. 20 S., R. 33 E. BHL: 100 feet FNL and 1930 feet FWL, Section 26, T. 19 S., R. 33 E.
LAGUNA DEEP-Anaconda E2	LAGUNA DEEP 2-26 FEDERAL COM 223H SHL: 339 feet FSL and 1137 feet FEL, Section 2, T. 20 S., R. 33 E. BHL: 100 feet FNL and 1780 feet FEL, Section 26, T. 19 S., R. 33 E.
LAGUNA DEEP-Anaconda E2	LAGUNA DEEP 2-26 FEDERAL COM 221H SHL: 339 feet FSL and 1097 feet FEL, Section 2, T. 20 S., R. 33 E. BHL: 100 feet FNL and 610 feet FEL, Section 26, T. 19 S., R. 33 E.

APPLICATION FACILITIES

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.

[1] SHL is an abbreviation for Surface Hole Location. BHL is an abbreviation for Bottom Hole Location.

SPECIAL STIPULATIONS

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 100 ft) 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, 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 confirmation that all activity within 100 ft 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.

2. WILDLIFE

LESSER PRAIRIE CHICKEN

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 dB measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions: The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to Avoid Raptor Perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. **For more installation details, contact the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov.**

3. POTASH RESOURCES

Lessees must comply with the 2012 Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations.

To minimize impacts to potash resources, the proposed well is confined within the boundaries of the established Laguna Anaconda Drill Island.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Coterra Energy Operating Co**
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	**Laguna Deep 2-26 Federal Com 223H**
ATS/API ID:	**ATS-26-1874**
APD ID:	**10400112414**
Sundry ID:	

COA

H2S	Yes		
Potash	R-111-Q	Figure E	
Cave/Karst Potential	Low		
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☐ Flex Hose	☐ Other
Wellhead	Conventional and Multibowl		
Other	☑ 4 String ☐ 5 String	Capitan Reef Int 2	☐ WIPP
Other	Pilot Hole None	☑ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Prod	Primary Cement Squeeze None
Special Requirement	☐ Water Disposal/Injection	☐ COM	☑ Unit
Special Requirement	☐ Batch	Waste Prevention Waste MP	
Special Requirement Variance	☐ BOPE Break Testing ☐ Offline BOPE Testing	☐ Offline Cementing	☐ Casing Clearance (Int) ☐ Casing Clearance (Prod)

 Approval Date: 10/21/2026

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Yates and Bone Springs** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 1494 feet (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.
    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **10-3/4** inch intermediate casing shall be set at approximately 3325 feet is:
    - Cement to surface. If cement does not circulate see B.1.a, c-d above.
      Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.
      Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

3. The minimum required fill of cement behind the **8-5/8** inch intermediate casing shall be set at approximately 5355 feet is:
    - Cement to surface. If cement does not circulate see B.1.a, c-d above.
      Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.
      Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

    ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

    (Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the capitan interval)

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
    - The top of cement in the annulus between the 2nd intermediate and the production casing strings shall stand un-cemented at least 500 feet below the 2nd intermediate shoe. Zero percent excess shall be pumped on the production cement slurry.
    - After hydraulic fracturing operations have been concluded and no longer than 180 days after the well is brought online, the operator shall bradenhead cement at least **500 feet** tie-back into the previous casing but not higher than USGS Marker Bed No. 126. **(Squeeze 414 sxs Class C and 154 bbls Displacement Fluid)**

      Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

    Operator has proposed to pump down **5-1/2"** X **8-5/8"** annulus post completion. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus or operator shall run a CBL from TD of the **5-1/2"** casing to surface to verify TOC. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore. Report the amount of fluid utilized to pump the cement slurry and the calculated top of cement slurry to the BLM. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure and ensure cement tie-back requirement.

    Operator has proposed an open annulus completion in R-111-Q. Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on the **5-1/2"** x **8-5/8"** annulus.

    In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and **(575-361-2822 Lea County)**.

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).'

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 **10-3/4** intermediate casing shoe shall be **3000 (3M)** psi.

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

Option 2:

a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

iii. Manufacturer representative shall install the test plug for the initial BOP test.

iv. 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.

v. 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)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

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)

☑ Lea County

Email or Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
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.
3. Application approval does not warrant or certify that the applicant's well completion and recompletions ensure the protection of Federal and Indian minerals from potential drainage situations or the protection of non-Federal or non-Indian lands. The affected lessee(s)/operating rights owners shall promptly notify the BLM and the affected parties of such well completions and recompletions when such lands are at risk of potential drainage and ensuring proper approval such as non-standard approval are pending.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Acceptable Method of Cement Verifications:
    a. Observing cement circulated to surface.
    b. Cement bond log (CBL).
    c. Temperature log within 8-10 hours after completing the cement job.
    d. Echometer (if a second-stage bradenhead squeeze is being used).
5. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
8. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
9. Whenever a casing string is cemented in the R-111 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) 8/28/2026

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

Operator Certification Data Report

10/27/2026

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: ANGELA CALLAWAY **Signed on:** 07/13/2026

Title: Regulatory Analyst

Street Address: 7000 S YOSEMITE STREET SUITE 290B

City: ENGLEWOOD **State:** CO **Zip:** 80112

Phone: (303)942-0506

Email address: ACALLAWAY@UPSTREAMPM.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
10/27/2026

APD ID: 10400112414
Submission Date: 07/15/2026
Operator Name: COTERRA ENERGY OPERATING CO
Well Name: LAGUNA DEEP 2-26 FEDERAL COM
Well Number: 223H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400112414
Tie to previous NOS? N
Submission Date: 07/15/2026
BLM Office: Carlsbad
User: ANGELA CALLAWAY
Title: Regulatory Analyst
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM27572
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: COTERRA ENERGY OPERATING CO
Operator letter of
Coterra_Energy_Operating_Co._Designation_of_Agent_Letter_20260710143818.pdf

Operator Info

Operator Organization Name: COTERRA ENERGY OPERATING CO
Operator Address: 333 WEST SHERIDAN AVENUE
Zip: 73102
Operator PO Box:
Operator City: OKLAHOMA CITY
State: OK
Operator Phone: (432)620-1642
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: LAGUNA DEEP 2-26 FEDERAL COM
Well Number: 223H
Field/Pool or Exploratory? Field and Pool
Field Name: TEAS
Pool Name: Bone Spring

AFMSS

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

Application for Permit to Drill

APD Package Report

Date Printed:

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

APD Package Report Contents

- Form 3160-3 : Error Generating Form

- Operator Certification Report

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

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 2 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 3 file(s)
  -- Casing Design Assumptions and Worksheet(s): 6 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)
  -- Other Facets: 4 file(s)
  -- Other Variances: 1 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 2 file(s)
  -- New Road Map: 2 file(s)
  -- Attach Well map: 2 file(s)
  -- Production Facilities map: 5 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Well Site Layout Diagram: 2 file(s)
  -- Recontouring attachment: 2 file(s)
  -- Existing Vegetation at the well pad attachment: 2 file(s)
  -- Existing Vegetation at the road attachment: 2 file(s)
  -- Existing Vegetation Community at the pipeline attachment: 2 file(s)
  -- Existing Vegetation Community at other disturbances attachment: 1 file(s)

CONFIDENTIAL

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments
  -- None

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

Operator Certification Data Report

10/22/2026

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: ANGELA CALLAWAY **Signed on:** 07/13/2026

Title: Regulatory Analyst

Street Address: 7000 S YOSEMITE STREET SUITE 290B

City: ENGLEWOOD **State:** CO **Zip:** 80112

Phone: (303)942-0506

Email address: ACALLAWAY@UPSTREAMPM.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
10/22/2026

APD ID: 10400112414
Submission Date: 07/15/2026
Operator Name: COTERRA ENERGY OPERATING CO
Well Name: LAGUNA DEEP 2-26 FEDERAL COM
Well Number: 223H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400112414
Tie to previous NOS? N
Submission Date: 07/15/2026
BLM Office: Carlsbad
User: ANGELA CALLAWAY
Title: Regulatory Analyst
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM27572
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: COTERRA ENERGY OPERATING CO
Operator letter of
Coterra_Energy_Operating_Co._Designation_of_Agent_Letter_20260710143818.pdf

Operator Info

Operator Organization Name: COTERRA ENERGY OPERATING CO
Operator Address: 333 WEST SHERIDAN AVENUE
Zip: 73102
Operator PO Box:
Operator City: OKLAHOMA CITY
State: OK
Operator Phone: (432)620-1642
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: LAGUNA DEEP 2-26 FEDERAL COM
Well Number: 223H
Field/Pool or Exploratory? Field and Pool
Field Name: TEAS
Pool Name: Bone Spring

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Is the proposed well in an area containing other mineral resources? 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:** Laguna Deep-Anaconda **Number:** E2 Pad

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: 27 Miles **Distance to nearest well:** 20 FT **Distance to lease line:** 339 FT

Reservoir well spacing assigned acres Measurement: 1918 Acres

Well plat: LAGUNA_DEEP_2_26_FEDERAL_COM_223H_C102___SIGNED_20260710143932.pdf

Well work start Date: 09/01/2026 **Duration:** 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: 23782 **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	339	FSL	1137	FEL	20S	33E	2	Aliquot SESE	32.595868	-103.629036	LEA	NEW MEXICO	NEW MEXICO	S	STATE	3584			Y
KOP Leg #1	100	FSL	1780	FWL	20S	33E	2	Aliquot SWSE	32.595212	-103.631123	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-6095	9712	9679	Y
PPP Leg #1-1	100	FSL	1780	FWL	20S	33E	2	Aliquot SWSE	32.595212	-103.631123	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-6668	10612	10252	Y

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-2	0	FSL	1767	FEL	19S	33E	35	Aliquot SWSE	32.609424	-103.631086	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 27572	-6668	15422	10252	Y
PPP Leg #1-3	2639	FSL	1770	FEL	19S	33E	35	Aliquot SWNE	32.616677	-103.631067	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 9824	-6668	18061	10252	Y
PPP Leg #1-4	1321	FNL	1770	FEL	19S	33E	35	Aliquot NWNE	32.620308	-103.631057	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 27573	-6668	19382	10252	Y
PPP Leg #1-5	0	FSL	1770	FEL	19S	33E	26	Aliquot SWSE	32.623939	-103.631048	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 29701	-6668	20703	10252	Y
PPP Leg #1-6	2635	FNL	1775	FEL	19S	33E	26	Aliquot SWNE	32.631189	-103.631028	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 15917	-6668	23341	10252	Y
EXIT Leg #1	100	FNL	1780	FEL	19S	33E	26	Aliquot NWNE	32.638158	-103.63101	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 15917	-6668	25693	10252	Y
BHL Leg #1	100	FNL	1780	FEL	19S	33E	26	Aliquot NWNE	32.638158	-103.63101	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 15917	-6668	25693	10252	Y

CONFIDENTIAL

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 1, 2026
Submit Electronically Via OCD Permitting		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-025-57100	58960	Teas; Bone Spring
Property Code	**Property Name**	**Well Number**
339648	LAGUNA DEEP 2-26 FEDERAL COM	223H
OGRID No.	**Operator Name**	**Ground Level Elevation**
215099	COTERRA ENERGY OPERATING CO.	3,583.8'

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
P	2	20S	33E		339 SOUTH	1,137 EAST	32.595868°	-103.629036°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	26	19S	33E		100 NORTH	1,780 EAST	32.638158°	-103.631010°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
1918.04	Infill	221H - Pending	Y	C

Order Numbers. R-24423 Well setbacks are under Common Ownership: ☐Yes ☐No N/A

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
O	2	20S	33E		100 SOUTH	1,780 EAST	32.595212°	-103.631123°	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
O	2	20S	33E		100 SOUTH	1,780 EAST	32.595212°	-103.631123°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	26	19S	33E		100 NORTH	1,780 EAST	32.638158°	-103.631010°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
All - Sec. 2-20S-33E, 26 & 35-19S-33E		

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.

Cole Carter 7/10/2026

Signature Date

Cole Carter

Printed Name

cole.carter@dvn.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 07-01-26 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

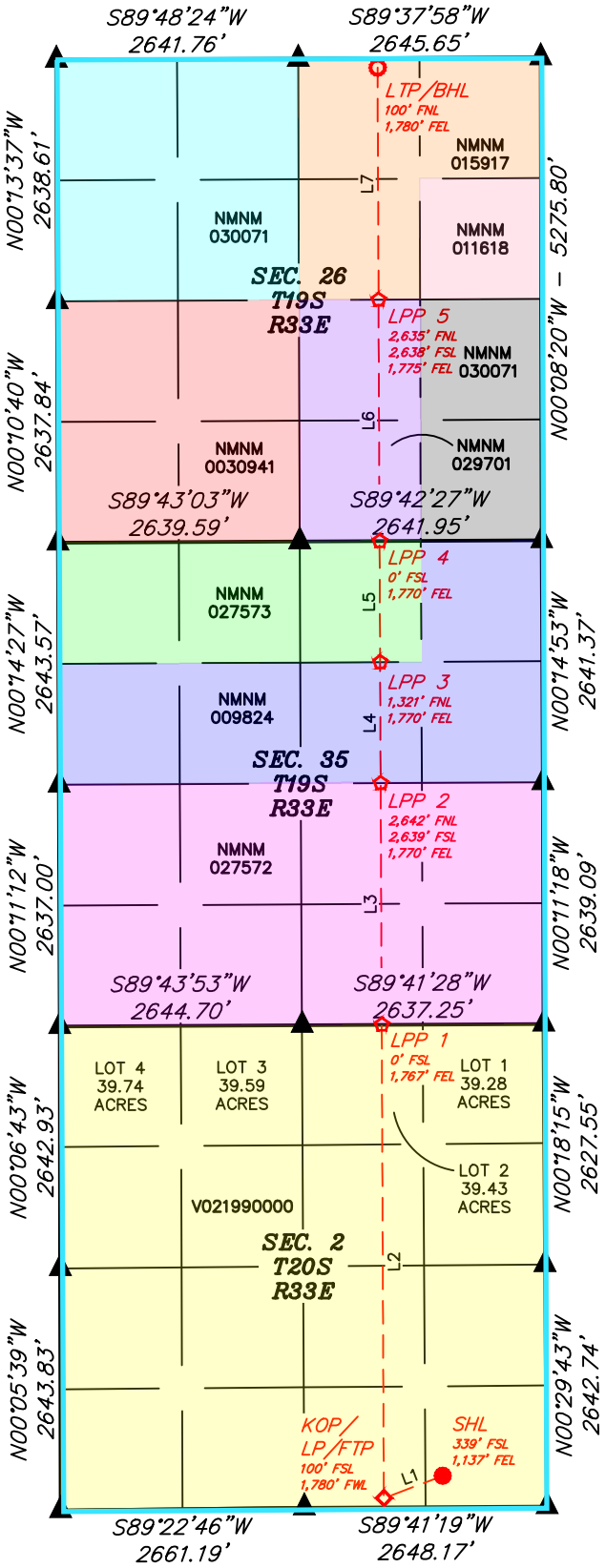
23782 May 12, 2026

Certificate Number Date of Survey

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

Released to Imaging: 10/29/2026 11:09:48 AM

Property Name	Well Number	Drawn By	Revised By
LAGUNA DEEP 2-26 FEDERAL COM	223H	N.R. 05-19-26	REV: 3 T.A.B. 07-01-26 (WELLBORE MOVE)



● = SURFACE HOLE LOCATION
◇ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
☆ = LEASE PENETRATION POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Foot.).
- Colored areas within section lines represent State and Federal oil & gas leases.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S69°15'50"W	685.36'
L2	N00°15'05"W	5170.36'
L3	N00°15'05"W	2639.00'
L4	N00°15'05"W	1320.98'
L5	N00°15'05"W	1320.98'
L6	N00°15'05"W	2638.02'
L7	N00°15'05"W	2535.43'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°35'45.12" (32.595868°)
LONGITUDE = -103°37'44.53" (-103.629036°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°35'44.68" (32.595745°)
LONGITUDE = -103°37'42.75" (-103.628543°)
STATE PLANE NAD 83 (N.M. EAST)
N: 581225.57' E: 758239.71'
STATE PLANE NAD 27 (N.M. EAST)
N: 581162.90' E: 717059.21'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°35'42.76" (32.595212°)
LONGITUDE = -103°37'52.04" (-103.631123°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°35'42.32" (32.595090°)
LONGITUDE = -103°37'50.27" (-103.630629°)
STATE PLANE NAD 83 (N.M. EAST)
N: 580982.91' E: 757598.74'
STATE PLANE NAD 27 (N.M. EAST)
N: 580920.25' E: 716418.25'

NAD 83 (LPP 1)
LATITUDE = 32°36'33.92" (32.609424°)
LONGITUDE = -103°37'51.91" (-103.631086°)
NAD 27 (LPP 1)
LATITUDE = 32°36'33.48" (32.609301°)
LONGITUDE = -103°37'50.13" (-103.630591°)
STATE PLANE NAD 83 (N.M. EAST)
N: 586153.22' E: 757576.05'
STATE PLANE NAD 27 (N.M. EAST)
N: 586090.41' E: 716395.70'

NAD 83 (LPP 2)
LATITUDE = 32°37'00.04" (32.616677°)
LONGITUDE = -103°37'51.84" (-103.631067°)
NAD 27 (LPP 2)
LATITUDE = 32°36'59.60" (32.616555°)
LONGITUDE = -103°37'50.06" (-103.630572°)
STATE PLANE NAD 83 (N.M. EAST)
N: 588792.19' E: 757564.47'
STATE PLANE NAD 27 (N.M. EAST)
N: 588729.31' E: 716384.20'

NAD 83 (LPP 3)
LATITUDE = 32°37'13.11" (32.620308°)
LONGITUDE = -103°37'51.81" (-103.631057°)
NAD 27 (LPP 3)
LATITUDE = 32°37'12.67" (32.620185°)
LONGITUDE = -103°37'50.02" (-103.630562°)
STATE PLANE NAD 83 (N.M. EAST)
N: 590113.16' E: 757558.68'
STATE PLANE NAD 27 (N.M. EAST)
N: 590050.23' E: 716378.44'

NAD 83 (LPP 4)
LATITUDE = 32°37'26.18" (32.623939°)
LONGITUDE = -103°37'51.77" (-103.631048°)
NAD 27 (LPP 4)
LATITUDE = 32°37'25.74" (32.623816°)
LONGITUDE = -103°37'49.99" (-103.630553°)
STATE PLANE NAD 83 (N.M. EAST)
N: 591434.12' E: 757552.88'
STATE PLANE NAD 27 (N.M. EAST)
N: 591371.16' E: 716372.68'

NAD 83 (LPP 5)
LATITUDE = 32°37'52.28" (32.631189°)
LONGITUDE = -103°37'51.70" (-103.631028°)
NAD 27 (LPP 5)
LATITUDE = 32°37'51.84" (32.631067°)
LONGITUDE = -103°37'49.92" (-103.630534°)
STATE PLANE NAD 83 (N.M. EAST)
N: 594072.12' E: 757541.31'
STATE PLANE NAD 27 (N.M. EAST)
N: 594009.08' E: 716361.18'

NAD 83 (LTP/BHL)
LATITUDE = 32°38'17.37" (32.638158°)
LONGITUDE = -103°37'51.64" (-103.631010°)
NAD 27 (LTP/BHL)
LATITUDE = 32°38'16.93" (32.638036°)
LONGITUDE = -103°37'49.85" (-103.630515°)
STATE PLANE NAD 83 (N.M. EAST)
N: 596607.53' E: 757530.18'
STATE PLANE NAD 27 (N.M. EAST)
N: 596544.41' E: 716350.12'



SCALE

Sheet 2 of 2

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

Drilling Plan Data Report
10/22/2026

APD ID: 10400112414
Submission Date: 07/15/2026
Operator Name: COTERRA ENERGY OPERATING CO
Well Name: LAGUNA DEEP 2-26 FEDERAL COM
Well Number: 223H
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
19096041	RUSTLER	3584	1359	1359	ANHYDRITE, SANDSTONE	USEABLE WATER	N
19096042	TOP SALT	1867	1717	1724	ANHYDRITE	NONE	N
19096035	YATES	259	3325	3344	ANHYDRITE, SANDSTONE	NONE	N
19096040	CAPITAN REEF	-239	3823	3846	LIMESTONE	NONE	N
19096045	CHERRY CANYON	-1771	5355	5389	SANDSTONE	NONE	N
19096046	BRUSHY CANYON	-2868	6452	6486	SANDSTONE	NONE	N
19096047	BONE SPRING LIME	-4710	8294	8328	LIMESTONE	NATURAL GAS, OIL	N
19096049	BONE SPRING 1ST	-5759	9343	9377	SANDSTONE	NATURAL GAS, OIL	N
19096052	BONE SPRING 2ND	-6640	10224	10434	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M
Rating Depth: 10252

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 43 CFR 3172.6 (b)(1)(v) 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. BOP/BOPE will be tested by an independent service company per 43 CFR 3172 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: See attached.

Testing Procedure: A multi-bowl wellhead will be utilized and will be tested per 43 CFR 3172.6 (b)(9)(i-xi) after the installation on the surface casing. The testing interval shall be for 30 days. Whenever any seal subject to pressure is broken, a full BOPE test shall be performed. All BOP equipment will be tested utilizing a conventional test pug. A remote kill line is included in the BOPE system. All casing strings will be tested to 0.22 psi/ft. or 1500 psi, whichever is greater, not to exceed 70% of casing burst. If well conditions dictate,

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements. 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.

Choke Diagram Attachment:

COTERRA_4T_CFL_13.38_X_10.34_X_8.58_X_5.5_MAN_DRAWING_20260811070937.pdf

Laguna_Deep_2_26_Federal_Com_223H_BOP_Diagram_20260811070950.pdf

BOP Diagram Attachment:

CHOKE_HOSE_M15486_20250605071931.pdf

Laguna_Deep_2_26_Federal_Com_223H_BOP_Diagram_20260811070339.pdf

COTERRA_4T_CFL_13.38_X_10.34_X_8.58_X_5.5_MAN_DRAWING_20260811070549.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	1494	0	1494	3584	2090	1494	J-55	54.5	BUTT	1.75	4.23	BUOY	10.48	BUOY	10.48
2	INTERMEDIATE	12.25	10.75	NEW	API	N	0	3325	0	3325	3911	259	3325	J-55	45.5	OTHER - BTC SC	1.2	2.98	BUOY	6.87	BUOY	6.87
3	INTERMEDIATE	9.875	8.625	NEW	API	N	0	5355	0	5355	3911	-1771	5355	P-110	32	OTHER - MOXFL	1.86	2.7	BUOY	4.6	BUOY	4.6
4	PRODUCTION	7.875	5.5	NEW	API	N	0	25693	0	10252	3606	-6668	25693	P-110	23	BUTT	1.21	1.21	DRY	3.09	DRY	3.09

Casing Attachments

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Laguna_Deep_2_26_Federal_COM_223H_Casing_Safety_Calculations_Revised_082426_20260824163007.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Spec_Sheet_v1_10750_4550_J55_BTC_SC_081726_20260819104348.pdf

Laguna_Deep_2_26_Federal_COM_223H_Casing_Safety_Calculations_Revised_082426_20260824163022.pdf

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

8.625_32__P110HSCY_MOFXL_Casing_Spec_Sheet_20260713095842.pdf

Laguna_Deep_2_26_Federal_COM_223H_Casing_Safety_Calculations_Revised_082426_20260824163035.pdf

CONFIDENTIAL

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Casing Attachments

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Laguna_Deep_2_26_Federal_COM_223H_Casing_Safety_Calculations_Revised_082426_20260824162955.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1294	784	1.72	13.5	1348	50	Class C	Bentonite
SURFACE	Tail		1294	1494	130	1.34	14.8	174	25	Class C	LCM
INTERMEDIATE	Lead		0	2325	274	1.88	12.9	515	50	35:65 (Poz:C)	Salt, Bentonite
INTERMEDIATE	Tail		2325	3325	211	1.34	14.8	283	50	Class C	LCM
INTERMEDIATE	Lead		0	4355	327	1.88	12.9	615	50	35:65 Poz C	Salt, Bentonite
INTERMEDIATE	Tail		4355	5355	158	1.2	14.8	190	50	Class C	LCM
PRODUCTION	Lead		4855	8294	414	1.44	9	596	0	Class C	Salt, Bentonite, Fluid Loss, Dispersant
PRODUCTION	Tail		8294	25693	2512	1.2	14.2	3014	0	50:50 Poz H	Salt, Bentonite, Fluid Loss, Dispersant

Additional Cementing Information:

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

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.

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
5355	25693	WATER-BASED MUD	9	9							Viscosity: 28 Water Loss: 65
0	1494	OTHER : Fresh water	7.8	8.3							Viscosity: 28 Water Loss: 80
1494	3325	OTHER : Brine Water	9.8	10.1							Viscosity: 29 Water Loss: 250
3325	5355	OTHER : Fresh Water	7.83	8.33							Viscosity: 28 Water Loss: 80

CONFIDENTIAL

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Section 6 - Test, Logging, Coring

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

Cement bond log will be run on this well.

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

DIRECTIONAL SURVEY,CEMENT BOND LOG,

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4798 **Anticipated Surface Pressure:** 2542

Anticipated Bottom Hole Temperature(F): 172

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

Laguna_Deep_2_26_Federal_Com_223H_H2S_PLAN_REV.0__4__20260713100320.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Laguna_Deep_2_26_Federal_Com_223H_Horizontal_Survey_20260715092112.pdf

Other proposed operations facets description:

If cement does not circulate to surface, remediation will be done with an appropriately sized tubing to meet radial clearance requirements. Devon will design in compliance with R111-Q: 4 String, Open Production Annulus, Figure E.

Other proposed operations facets attachment:

Laguna_Deep_2_26_Federal_Com_223H_AC_Report_20260715092136.pdf

Laguna_Deep_2_26_Federal_Com_223H_Well_Control_Plan_REV.1_20260715092150.pdf

Laguna_Deep_2_26_Fed_Com_223H_NGMP_20260723133009.pdf

Laguna_Deep_2_26_Federal_Com_223H_Drilling_Plan_Revised_082426_20260824162911.pdf

Other Variance request(s)?: Y

Other Variance attachment:

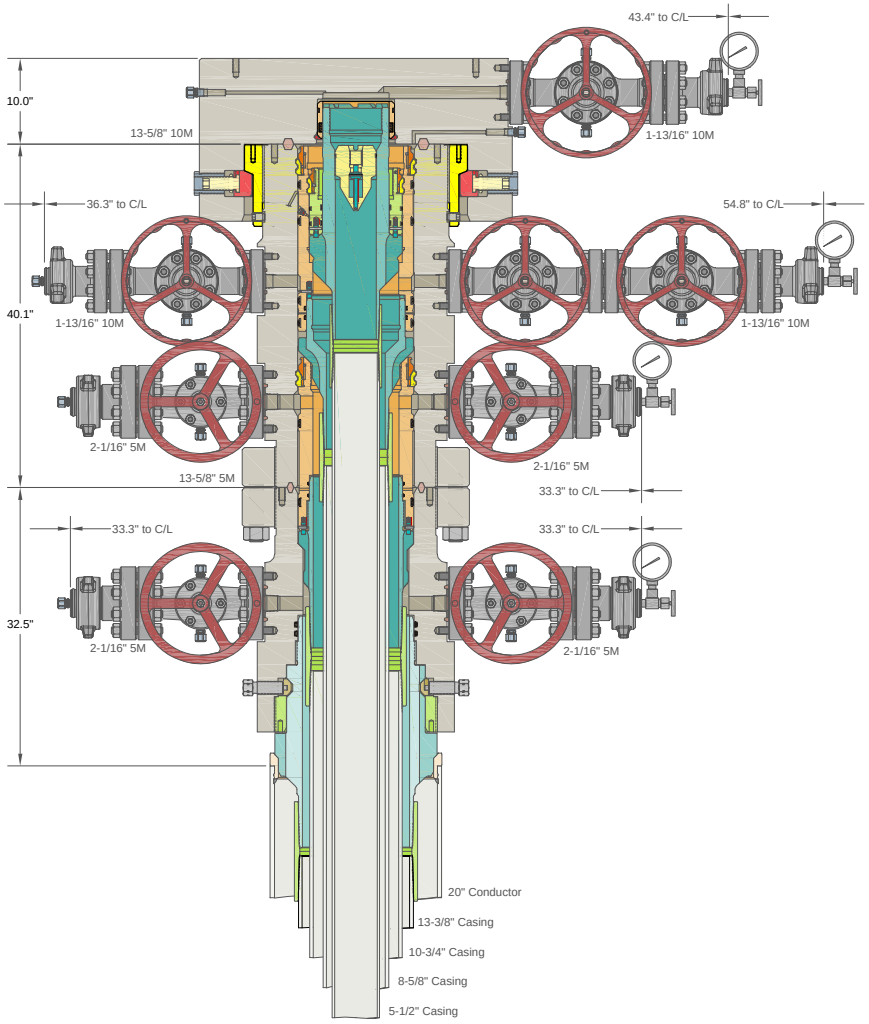
Operator Name: COTERRA ENERGY OPERATING CO

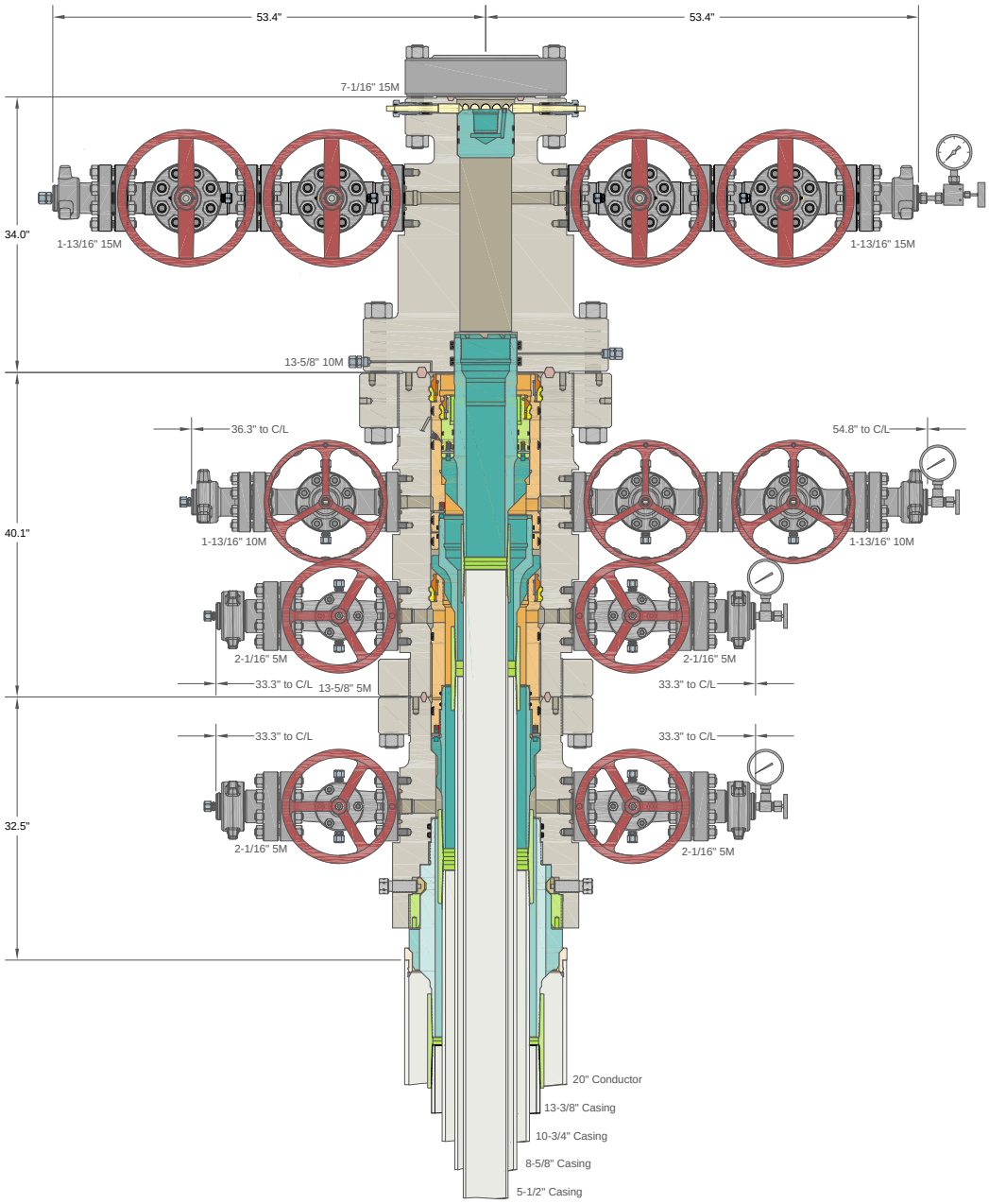
Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

CHOKE_HOSE_M15486_20251118075214.pdf

CONFIDENTIAL

Page 35 of 317





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

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

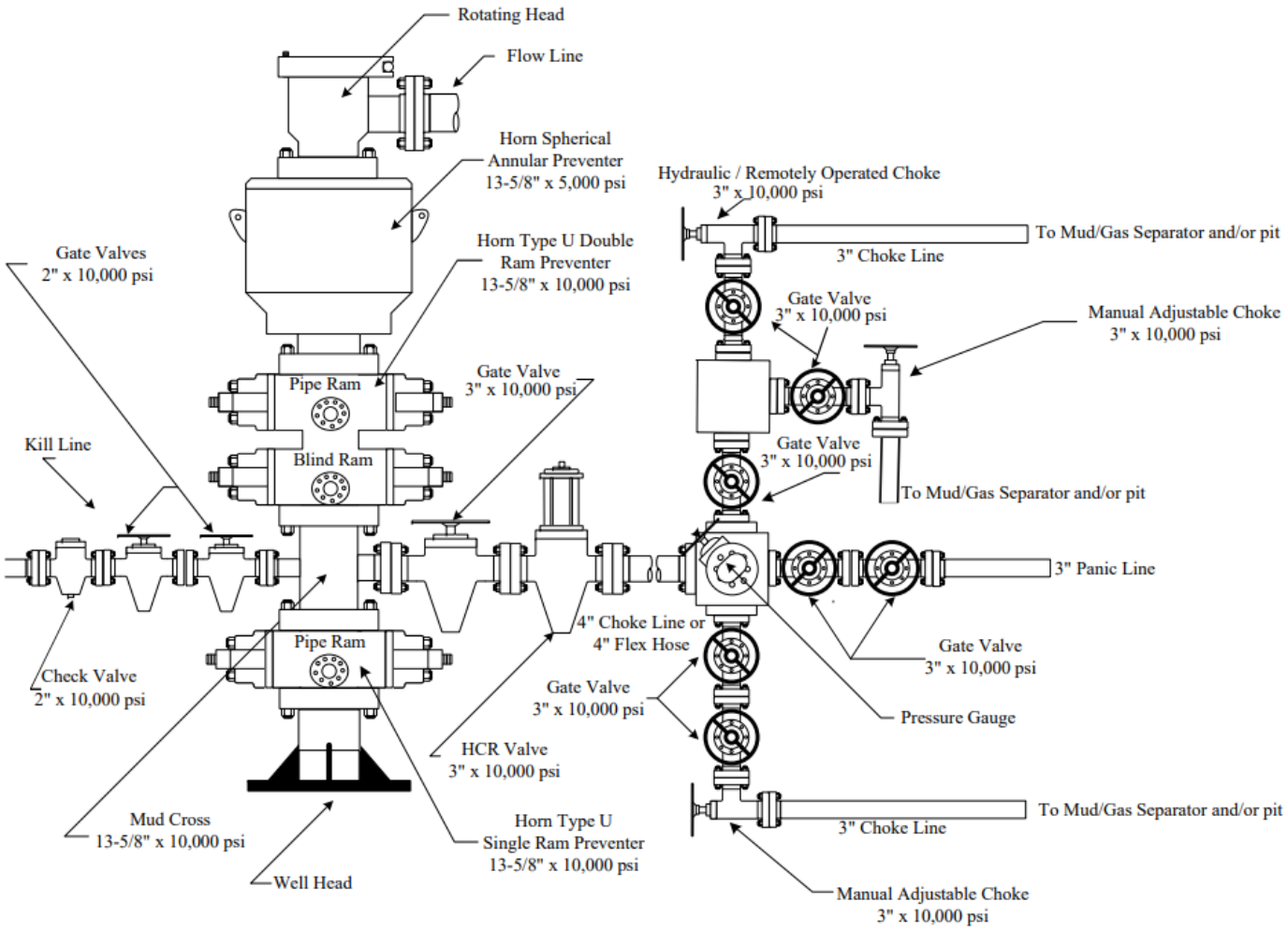
20" x 13-3/8" x 10-3/4" x 8-5/8" x 5-1/2" 10M MBU-4T-CFL
Wellhead Sys. With 8-5/8" And 5-1/2" Mandrel Casing Hangers
And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head

DRAWN	DLE	20FEB25
APPRV		

DRAWING NO.

Received by OCD: 10/22/2026 11:18:58 AM

Released to Imaging: 10/29/2026 11:09:48 AM


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

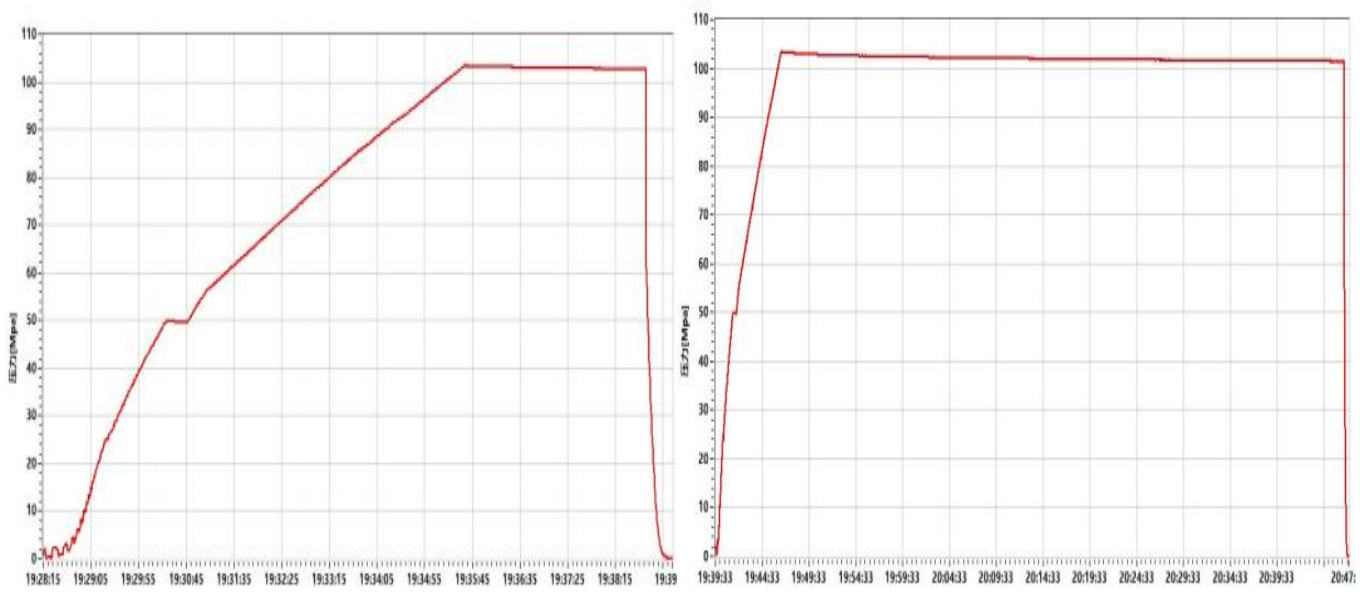
AustinHOSE

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

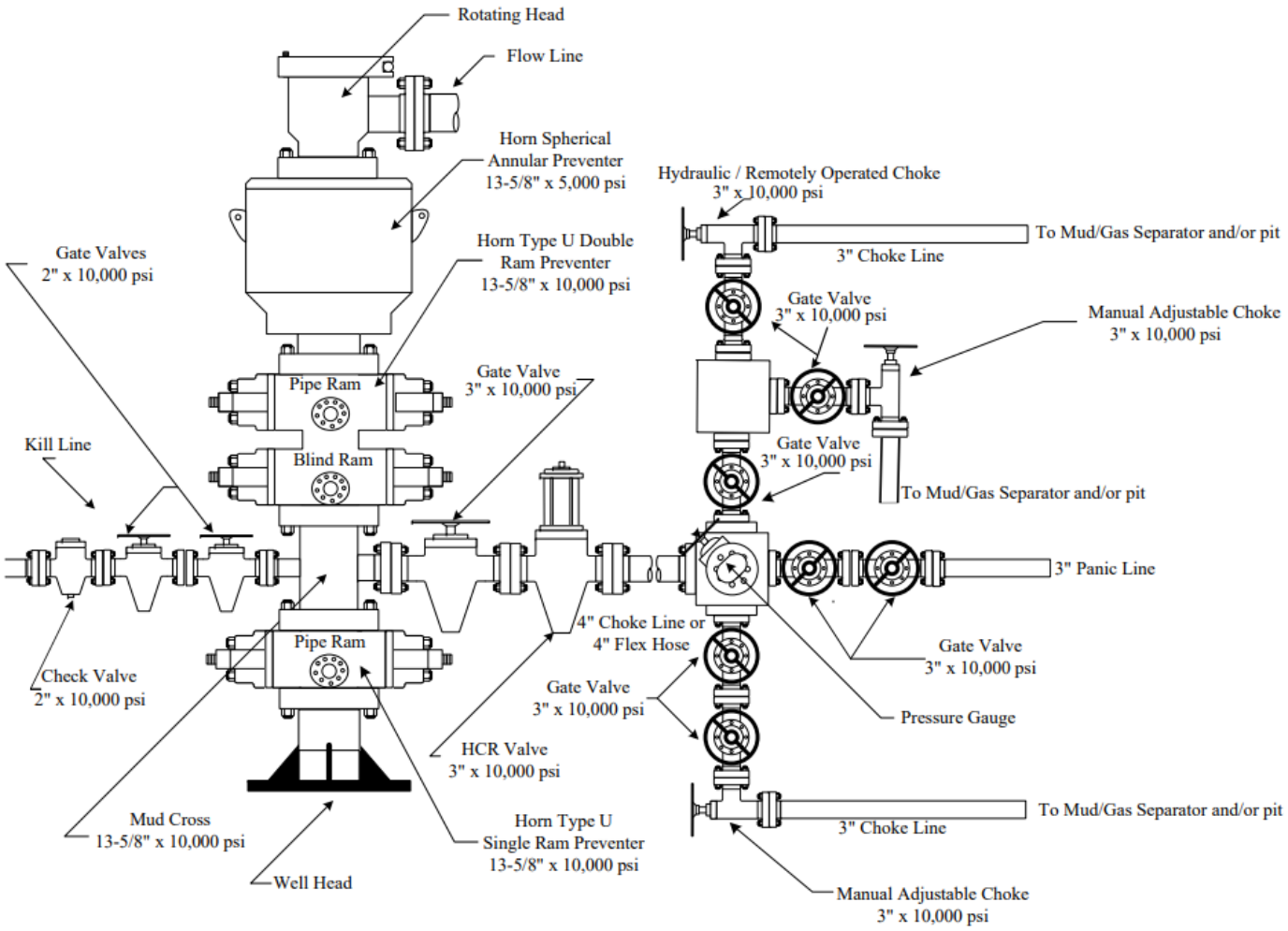
End Connections: 4-1/16″×10000psi Integral flange for sour gas service

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 .

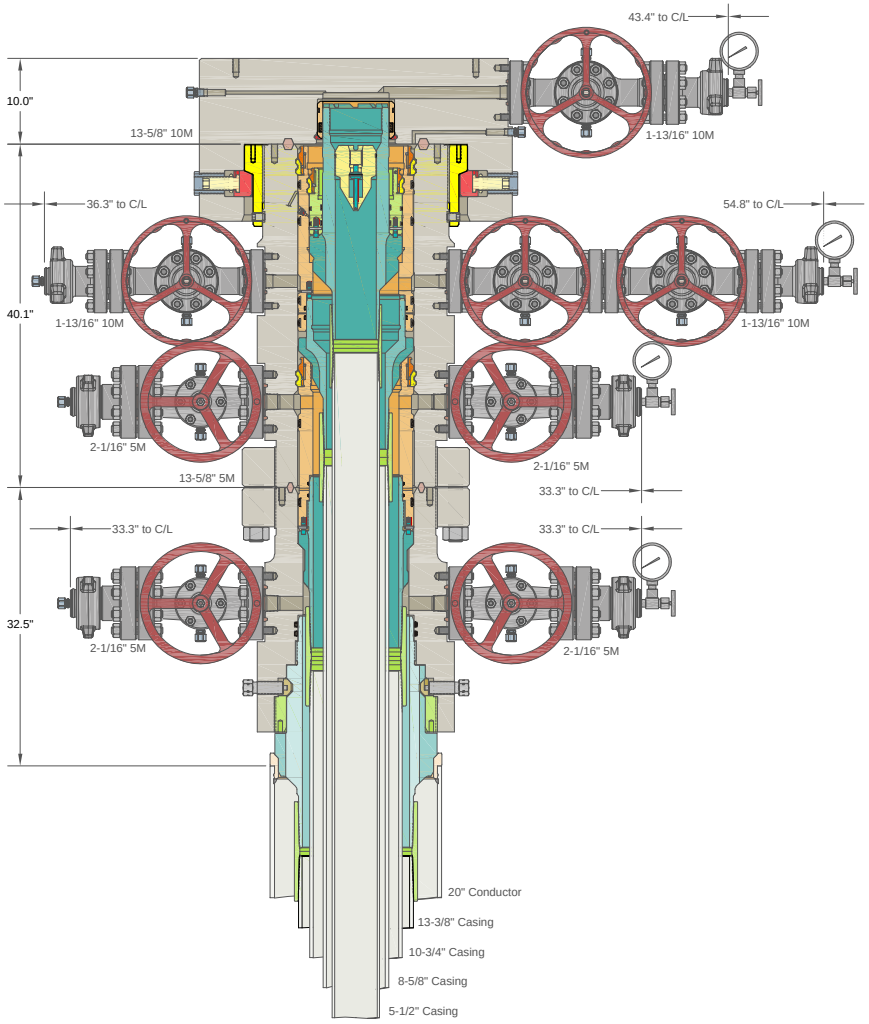
QC Manager： Jane C Date:Sep 3, 2024

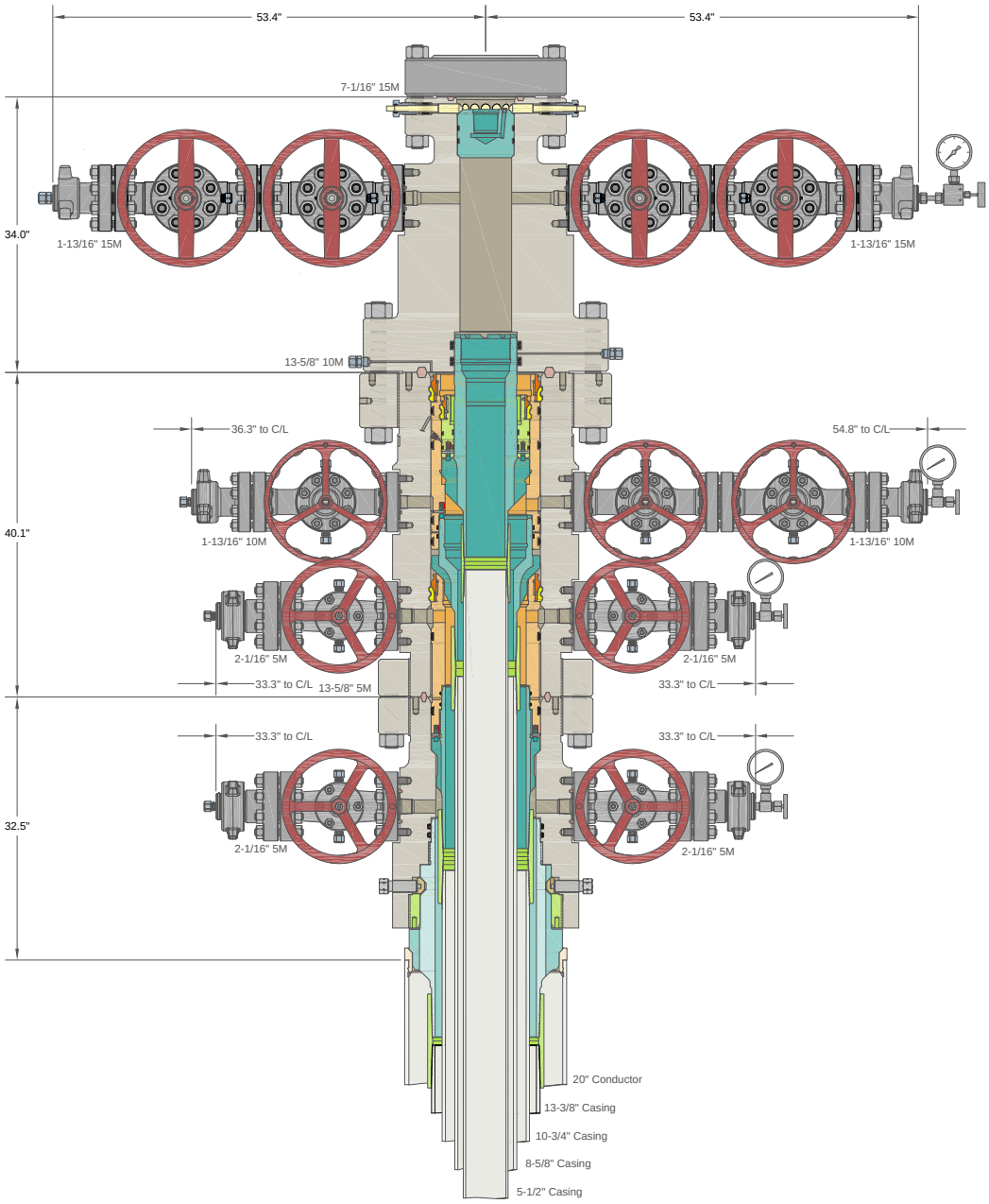
16C-0403

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE


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

Page 41 of 317





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

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

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

DRAWN	DLE	20FEB25
APPRV		
DRAWING NO.		

Received by OCD: 10/22/2026 11:18:58 AM

Released to Imaging: 10/29/2026 11:09:48 AM

Coterra Energy Operating Co.

Laguna Deep 2-26 Federal COM 223H

Casing and Safety Factor Calculations

Casing Summary

	OH	Casing Depth From	Casing Depth To	Casing Setting Depth TVD	Size	Weight	Grade	Connection	SF Collapse	SF Burst	SF Tension
Surface	17.5	0	1494	1494	13.375	54.5	J55	BTC	1.75	4.23	10.48
Intermediate 1	12.25	0	3325	3325	10.75	45.5	J55	BTC SC	1.20	1.88	5.26
Intermediate 2	9.875	0	5355	5355	8.625	32	P110	MOXFL	1.86	2.70	4.60
Production	7.875	0	25693	10252	5.5	23	P110	BTC	1.21	1.21	3.09

Coterra Energy Operating Co.

Laguna Deep 2-26 Federal COM 223H

Casing and Safety Factor Calculations

Casing Summary

	OH	Casing Depth From	Casing Depth To	Casing Setting Depth TVD	Size	Weight	Grade	Connection	SF Collapse	SF Burst	SF Tension
Surface	17.5	0	1494	1494	13.375	54.5	J55	BTC	1.75	4.23	10.48
Intermediate 1	12.25	0	3325	3325	10.75	45.5	J55	BTC SC	1.20	1.88	5.26
Intermediate 2	9.875	0	5355	5355	8.625	32	P110	MOXFL	1.86	2.70	4.60
Production	7.875	0	25693	10252	5.5	23	P110	BTC	1.21	1.21	3.09

SeAH

10-3/4" 45.50# 0.400" J-55

Dimensions (Nominal)

Outside Diameter	**10.750**	**in.**
Wall	**0.400**	**in.**
Inside Diameter	**9.950**	**in.**
Drift	**9.875**	**in.**
Weight, T&C	**45.500**	**lbs/ft**
Weight, PE	**44.260**	**lbs/ft**

Performance Properties

Collapse	**2090**	**psi**
Internal Yield Pressure at Minimum Yield		
PE	**3580**	**psi**
STC	**3580**	**psi**
BTC	**3580**	**psi**
BTC Special Clearance	**3290**	**psi**
Yield Strength, Pipe Body	**715**	**1000 lbs**
Joint Strength		
STC	**493**	**1000 lbs**
BTC	**796**	**1000 lbs**
BTC Special Clearance (11.25" OD Cplg)	**796**	**1000 lbs**

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

Coterra Energy Operating Co.

Laguna Deep 2-26 Federal COM 223H

Casing and Safety Factor Calculations

Casing Summary

	OH	Casing Depth From	Casing Depth To	Casing Setting Depth TVD	Size	Weight	Grade	Connection	SF Collapse	SF Burst	SF Tension
Surface	17.5	0	1494	1494	13.375	54.5	J55	BTC	1.75	4.23	10.48
Intermediate 1	12.25	0	3325	3325	10.75	45.5	J55	BTC SC	1.20	1.88	5.26
Intermediate 2	9.875	0	5355	5355	8.625	32	P110	MOXFL	1.86	2.70	4.60
Production	7.875	0	25693	10252	5.5	23	P110	BTC	1.21	1.21	3.09

Metal One Corp.

Metal One

MO-FXL

*1 Pipe Body: BMP P110HSCY MinYS125ksi
Special Drift 7.875"

Connection Data Sheet

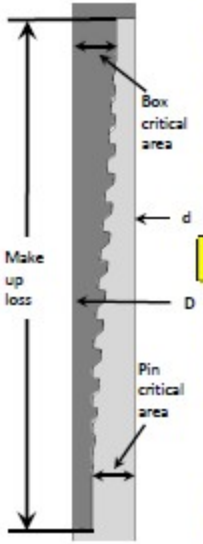
CDS#	MO-FXL 8-5/8 32.0
	P110HSCY
	MinYS125ksi
	SD7.875
Date	27-Nov-23

Geometry

MO-FXL

Pipe Body

	Imperial		S.I.	
Grade *1	P110HSCY		P110HSCY	
MinYS *1	125	ksi	125	ksi
Pipe OD (D)	8 5/8	in	219.08	mm
Weight	32.00	lb/ft	47.68	kg/m
Actual weight	31.10		46.34	kg/m
Wall Thickness (t)	0.352	in	8.94	mm
Pipe ID (d)	7.921	in	201.19	mm
Pipe body cross section	9.149	in^2	5,902	mm^2
Special Drift Dia. *1	7.875	in	200.03	mm
-	-	-	-	-



Connection

Box OD (W)	8.625	in	219.08	mm
PIN ID	7.921	in	201.19	mm
Make up Loss	3.847	in	97.71	mm
Box Critical Area	5.853	in^2	3686	mm^2
Joint load efficiency	69	%	69	%
Thread Taper	1 / 10 (1.2" per ft)			
Number of Threads	5 TPI			

Performance

Performance Properties for Pipe Body

S.M.Y.S. *1	1,144	kips	5,087	kN
M.I.Y.P. *1	8,930	psi	61.59	MPa
Collapse Strength *1	4,300	psi	29.66	MPa

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

*1: BMP P110HSCY: MinYS125ksi, SD7.875, Collapse Strength 4,300psi

Performance Properties for Connection

Tensile Yield load	789 kips (69% of S.M.Y.S.)
Min. Compression Yield	789 kips (69% of S.M.Y.S.)
Internal Pressure	6,250 psi (70% of M.I.Y.P.)
External Pressure	100% of Collapse Strength
Max. DLS (deg. /100ft)	29

Recommended Torque

Min.	13,600	ft-lb	18,400	N-m
Opti.	14,900	ft-lb	20,200	N-m
Max.	16,200	ft-lb	21,900	N-m
Operational Max.	28,400	ft-lb	38,500	N-m

Note : Operational Max. torque can be applied for high torque application

Legal Notice
The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this information.

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application
The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-con/_images/top/WebsiteTerms_Active_20333267_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.

Coterra Energy Operating Co.

Laguna Deep 2-26 Federal COM 223H

Casing and Safety Factor Calculations

Casing Summary

	OH	Casing Depth From	Casing Depth To	Casing Setting Depth TVD	Size	Weight	Grade	Connection	SF Collapse	SF Burst	SF Tension
Surface	17.5	0	1494	1494	13.375	54.5	J55	BTC	1.75	4.23	10.48
Intermediate 1	12.25	0	3325	3325	10.75	45.5	J55	BTC SC	1.20	1.88	5.26
Intermediate 2	9.875	0	5355	5355	8.625	32	P110	MOXFL	1.86	2.70	4.60
Production	7.875	0	25693	10252	5.5	23	P110	BTC	1.21	1.21	3.09

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).

Coterra: H2S Plan

Emergency Contacts

Coterra Energy

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

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

Third Party

PERMIAN REGION CONTACT NUMBERS

CALL 911

Air Ambulance Services

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

Fire / Police / Medical Care

Sheriff's Office		Fire Departments		Hospital / Medical Care Facilities	
Andrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200
Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561
Howard County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211
Terry County	806-637-2212	Brownfield	806-637-6633		
Crane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555
Val Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566
		Denver City	806-592-3516	Yoakum County Hospital	806-592-2121
Pecos County	432-336-3521	Ft. Stockton	432-336-8525		
Glasscock County	432-354-2361	Garden City			
Winkler County	432-586-3461	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

Coterra Energy
Site: Laguna Deep 2-26 Federal Com Pad
Well: Laguna Deep 2-26 Federal Com 223H
Wellbore: OH
Design: Plan #1
Rig: H&P 448

SHL

339' FSL, 1137' FEL
RKB Elevation: GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	581225.57	758239.71	32.595868	-103.629036	

Azimuths to Grid North
True North: -0.38°
Magnetic North: 5.75°

Magnetic Field
Strength: 47352.6nT
Dip Angle: 60.28°
Date: 7/1/2026
Model: HDGM2026

To convert a Magnetic Direction to a Grid Direction, Add 5.75°

PROJECT DETAILS: Lea County, NM (NAD 83)

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

SECTION DETAILS

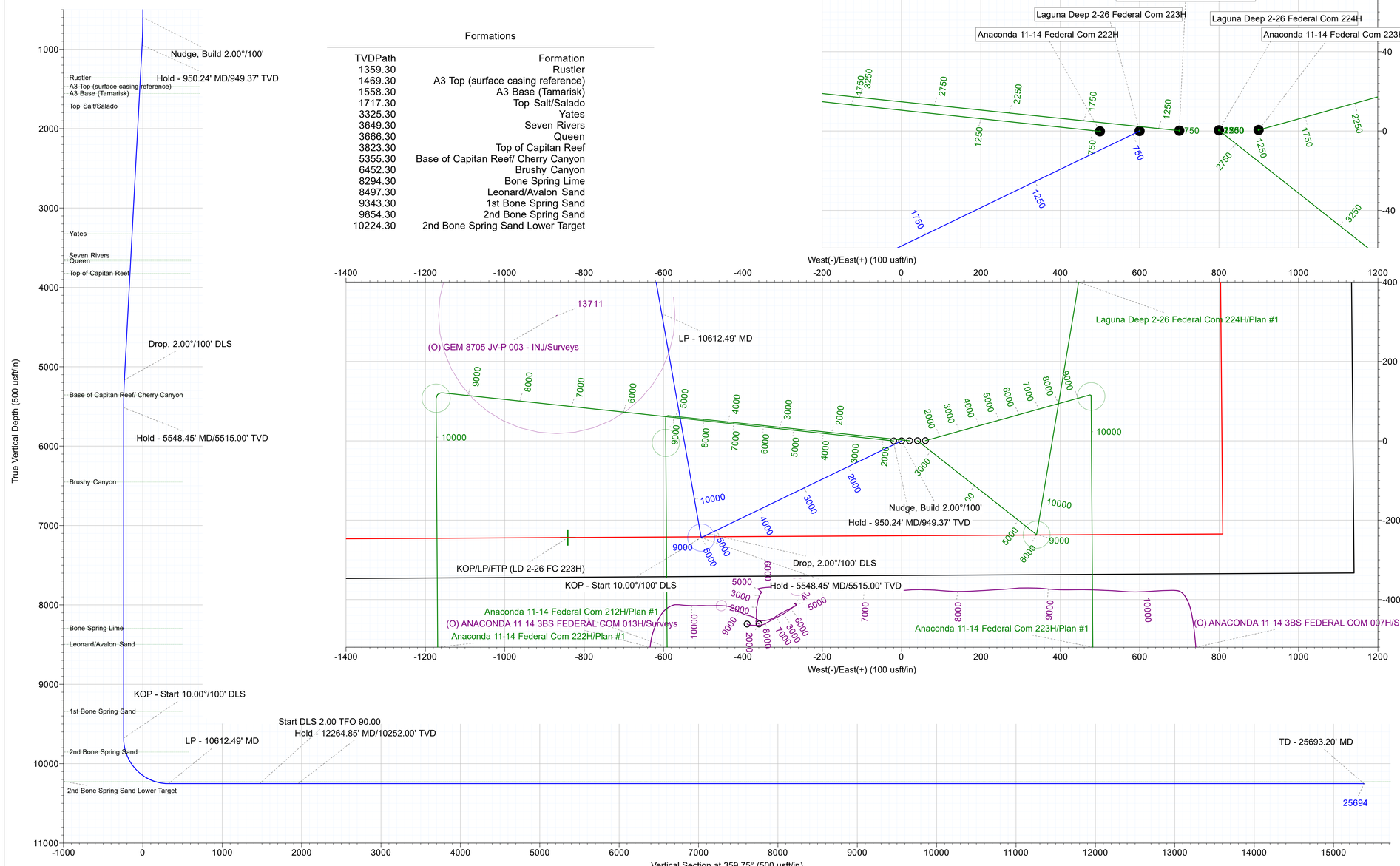
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	Nudge, Build 2.00°/100'
950.24	7.00	244.22	949.37	-9.30	-19.26	2.00	244.22	-9.22	Hold - 950.24' MD/949.37' TVD
5198.21	7.00	244.22	5165.63	-234.62	-485.74	0.00	0.00	-232.50	Drop, 2.00°/100' DLS
5548.45	0.00	0.00	5515.00	-243.92	-505.00	2.00	180.00	-241.71	Hold - 5548.45' MD/5515.00' TVD
9712.49	0.00	0.00	9679.04	-243.92	-505.00	0.00	0.00	-241.71	KOP - Start 10.00°/100' DLS
10612.49	90.00	350.00	10252.00	320.33	-604.49	10.00	350.00	322.97	LP - 10612.49' MD
11777.49	90.00	350.00	10252.00	1467.63	-806.79	0.00	0.00	1471.14	Start DLS 2.00 TFO 90.00
12264.85	90.00	359.75	10252.00	1952.46	-850.29	2.00	90.00	1956.15	Hold - 12264.85' MD/10252.00' TVD
25693.20	90.00	359.75	10252.00	15380.68	-909.53	0.00	0.00	15384.50	TD - 25693.20' MD

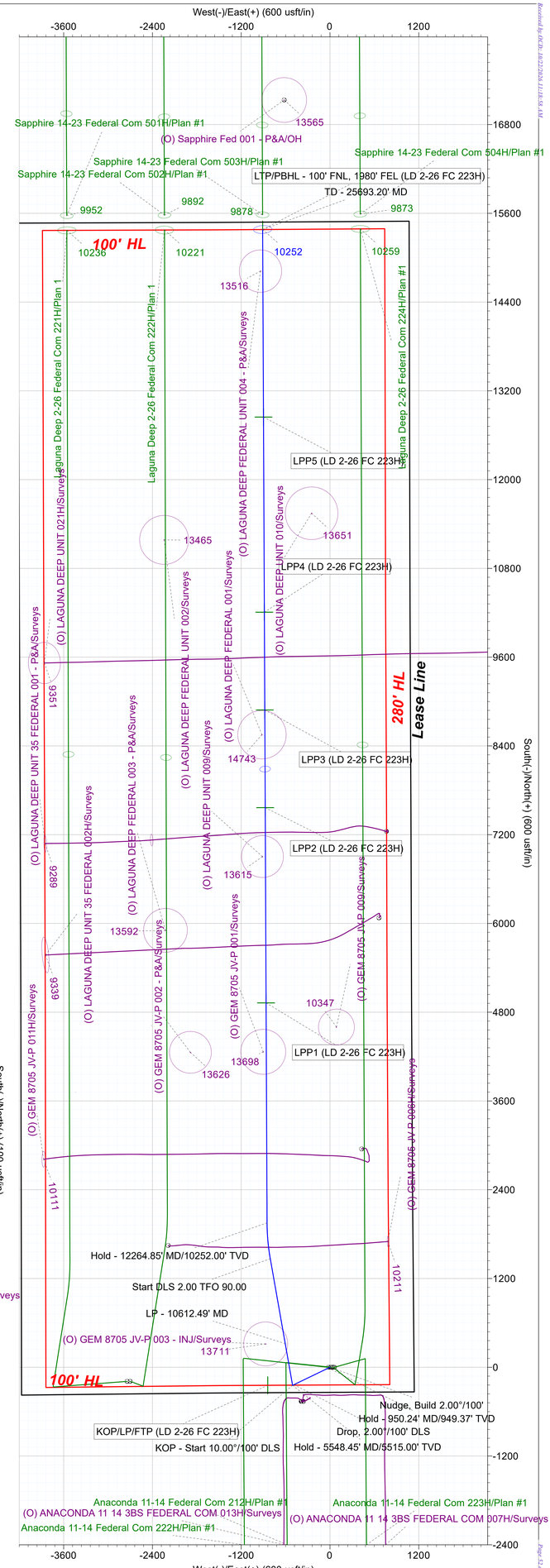
WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LPP1 (LD 2-26 FC 223H)	0.00	4926.57	-863.65	586152.14	757376.06	32.609424	-103.631735
LPP2 (LD 2-26 FC 223H)	0.00	7565.54	-875.23	588791.11	757364.48	32.616678	-103.631716
LPP3 (LD 2-26 FC 223H)	0.00	8886.53	-881.03	590112.10	757358.68	32.620309	-103.631707
LPP4 (LD 2-26 FC 223H)	0.00	10207.53	-886.83	591433.10	757352.88	32.623939	-103.631697
LPP5 (LD 2-26 FC 223H)	0.00	12845.55	-898.40	594071.12	757341.31	32.631190	-103.631678
KOP/LP/FTP (LD 2-26 FC 223H)	9679.04	-243.75	-840.97	580981.82	757398.74	32.595213	-103.631772
LTP/PBHL - 100' FNL, 1980' FEL (LD 2-26 FC 223H)	10252.00	15380.68	-909.53	596606.25	757330.18	32.638158	-103.631660

Formations

TVDPath	Formation
1359.30	Rustler
1469.30	A3 Top (surface casing reference)
1558.30	A3 Base (Tamarisk)
1717.30	Top Salt/Salado
3325.30	Yates
3649.30	Seven Rivers
3666.30	Queen
3823.30	Top of Capitan Reef
5355.30	Base of Capitan Reef/ Cherry Canyon
6452.30	Brushy Canyon
8294.30	Bone Spring Lime
8497.30	Leonard/Avalon Sand
9343.30	1st Bone Spring Sand
9854.30	2nd Bone Spring Sand
10224.30	2nd Bone Spring Sand Lower Target





Coterra Energy

Lea County, NM (NAD 83)
Laguna Deep 2-26 Federal Com Pad
Laguna Deep 2-26 Federal Com 223H

339' FSL, 1137' FEL

OH

Plan: Plan #1

Total Directional
"Driven by TOTAL performance"
total

Standard Plan Report

22 June, 2026

Total Report Version 1.90

COMPASS 5000.16 Build 97

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

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	.Total Directional Production DB

Project Lea 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 Laguna Deep 2-26 Federal Com Pad

Site Position:		**Northing:**	581,034.85 usft	**Latitude:**	32.595393
From:	Map	**Easting:**	755,498.79 usft	**Longitude:**	-103.637940
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Laguna Deep 2-26 Federal Com 223H

Well Position	**+N/-S**	0.00 usft	**Northing:**	581,225.57 usft	**Latitude:**	32.595868
	+E/-W	0.00 usft	**Easting:**	758,239.71 usft	**Longitude:**	-103.629037
Position Uncertainty		0.50 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,580.40 usft
Grid Convergence:		0.38 °				

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM2026	7/1/2026	6.13	60.28	47,352.60000000

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	359.75

Survey Tool Program **Date** 6/22/2026

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.00	25,693.20	Plan #1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**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	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
950.24	7.00	244.22	949.37	-9.30	-19.26	2.00	2.00	0.00	244.22	
5,198.21	7.00	244.22	5,165.63	-234.62	-485.75	0.00	0.00	0.00	0.00	
5,548.45	0.00	0.01	5,515.00	-243.92	-505.00	2.00	-2.00	0.00	180.00	
9,712.49	0.00	0.01	9,679.04	-243.92	-505.00	0.00	0.00	0.00	0.01	
10,612.49	90.00	350.00	10,252.00	320.33	-604.49	10.00	10.00	0.00	350.00	
11,777.49	90.00	350.00	10,252.00	1,467.63	-806.79	0.00	0.00	0.00	0.00	
12,264.85	90.00	359.75	10,252.00	1,952.46	-850.29	2.00	0.00	2.00	90.00	
25,693.20	90.00	359.75	10,252.00	15,380.68	-909.53	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	581,225.57	758,239.71	32.595868	-103.629037	0.00	0.00	0.00	0.00
LPP1 (LD 2-26 FC 223H) - LPP2 (LD 2-26 FC 223H) - LPP3 (LD 2-26 FC 223H) - LPP4 (LD 2-26 FC 223H)													
100.00	0.00	0.00	100.00	0.00	0.00	581,225.57	758,239.71	32.595868	-103.629037	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	581,225.57	758,239.71	32.595868	-103.629037	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	581,225.57	758,239.71	32.595868	-103.629037	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	581,225.57	758,239.71	32.595868	-103.629037	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	581,225.57	758,239.71	32.595868	-103.629037	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	581,225.57	758,239.71	32.595868	-103.629037	0.00	0.00	0.00	0.00
Nudge, Build 2.00°/100'													
700.00	2.00	244.22	699.98	-0.76	-1.57	581,224.81	758,238.14	32.595866	-103.629042	-0.75	2.00	2.00	0.00
800.00	4.00	244.22	799.84	-3.04	-6.28	581,222.53	758,233.43	32.595860	-103.629057	-3.01	2.00	2.00	0.00
900.00	6.00	244.22	899.45	-6.83	-14.13	581,218.74	758,225.58	32.595849	-103.629083	-6.76	2.00	2.00	0.00
950.24	7.00	244.22	949.37	-9.30	-19.26	581,216.27	758,220.45	32.595843	-103.629099	-9.22	2.00	2.00	0.00
Hold - 950.24' MD/949.37' TVD													
1,000.00	7.00	244.22	998.76	-11.94	-24.72	581,213.63	758,214.99	32.595835	-103.629117	-11.83	0.00	0.00	0.00
1,100.00	7.00	244.22	1,098.01	-17.24	-35.70	581,208.33	758,204.01	32.595821	-103.629153	-17.09	0.00	0.00	0.00
1,200.00	7.00	244.22	1,197.26	-22.55	-46.68	581,203.02	758,193.03	32.595807	-103.629189	-22.34	0.00	0.00	0.00
1,300.00	7.00	244.22	1,296.52	-27.85	-57.66	581,197.72	758,182.05	32.595792	-103.629225	-27.60	0.00	0.00	0.00
1,363.25	7.00	244.22	1,359.30	-31.21	-64.61	581,194.36	758,175.10	32.595783	-103.629247	-30.92	0.00	0.00	0.00
Rustler													
1,400.00	7.00	244.22	1,395.77	-33.16	-68.64	581,192.41	758,171.07	32.595778	-103.629260	-32.86	0.00	0.00	0.00
1,474.08	7.00	244.22	1,469.30	-37.09	-76.78	581,188.48	758,162.93	32.595767	-103.629287	-36.75	0.00	0.00	0.00
A3 Top (surface casing reference)													
1,500.00	7.00	244.22	1,495.02	-38.46	-79.63	581,187.11	758,160.08	32.595763	-103.629296	-38.11	0.00	0.00	0.00
1,563.75	7.00	244.22	1,558.30	-41.84	-86.63	581,183.73	758,153.08	32.595754	-103.629319	-41.46	0.00	0.00	0.00
A3 Base (Tamarisk)													

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,600.00	7.00	244.22	1,594.28	-43.76	-90.61	581,181.81	758,149.10	32.595749	-103.629332	-43.37	0.00	0.00	0.00
1,700.00	7.00	244.22	1,693.53	-49.07	-101.59	581,176.50	758,138.12	32.595735	-103.629368	-48.62	0.00	0.00	0.00
1,723.95	7.00	244.22	1,717.30	-50.34	-104.22	581,175.23	758,135.49	32.595731	-103.629376	-49.88	0.00	0.00	0.00
Top Salt/Salado													
1,800.00	7.00	244.22	1,792.79	-54.37	-112.57	581,171.20	758,127.14	32.595720	-103.629403	-53.88	0.00	0.00	0.00
1,900.00	7.00	244.22	1,892.04	-59.68	-123.55	581,165.89	758,116.16	32.595706	-103.629439	-59.14	0.00	0.00	0.00
2,000.00	7.00	244.22	1,991.29	-64.98	-134.53	581,160.59	758,105.18	32.595692	-103.629475	-64.39	0.00	0.00	0.00
2,100.00	7.00	244.22	2,090.55	-70.29	-145.52	581,155.28	758,094.19	32.595677	-103.629511	-69.65	0.00	0.00	0.00
2,200.00	7.00	244.22	2,189.80	-75.59	-156.50	581,149.98	758,083.21	32.595663	-103.629546	-74.91	0.00	0.00	0.00
2,300.00	7.00	244.22	2,289.05	-80.89	-167.48	581,144.68	758,072.23	32.595648	-103.629582	-80.16	0.00	0.00	0.00
2,400.00	7.00	244.22	2,388.31	-86.20	-178.46	581,139.37	758,061.25	32.595634	-103.629618	-85.42	0.00	0.00	0.00
2,500.00	7.00	244.22	2,487.56	-91.50	-189.44	581,134.07	758,050.27	32.595620	-103.629654	-90.67	0.00	0.00	0.00
2,600.00	7.00	244.22	2,586.81	-96.81	-200.42	581,128.76	758,039.29	32.595605	-103.629690	-95.93	0.00	0.00	0.00
2,700.00	7.00	244.22	2,686.07	-102.11	-211.40	581,123.46	758,028.31	32.595591	-103.629725	-101.19	0.00	0.00	0.00
2,800.00	7.00	244.22	2,785.32	-107.41	-222.39	581,118.16	758,017.32	32.595577	-103.629761	-106.44	0.00	0.00	0.00
2,900.00	7.00	244.22	2,884.57	-112.72	-233.37	581,112.85	758,006.34	32.595562	-103.629797	-111.70	0.00	0.00	0.00
3,000.00	7.00	244.22	2,983.83	-118.02	-244.35	581,107.55	757,995.36	32.595548	-103.629833	-116.96	0.00	0.00	0.00
3,100.00	7.00	244.22	3,083.08	-123.33	-255.33	581,102.24	757,984.38	32.595533	-103.629868	-122.21	0.00	0.00	0.00
3,200.00	7.00	244.22	3,182.34	-128.63	-266.31	581,096.94	757,973.40	32.595519	-103.629904	-127.47	0.00	0.00	0.00
3,300.00	7.00	244.22	3,281.59	-133.94	-277.29	581,091.63	757,962.42	32.595505	-103.629940	-132.72	0.00	0.00	0.00
3,344.04	7.00	244.22	3,325.30	-136.27	-282.13	581,089.30	757,957.58	32.595498	-103.629956	-135.04	0.00	0.00	0.00
Yates													
3,400.00	7.00	244.22	3,380.84	-139.24	-288.27	581,086.33	757,951.44	32.595490	-103.629976	-137.98	0.00	0.00	0.00
3,500.00	7.00	244.22	3,480.10	-144.54	-299.26	581,081.03	757,940.45	32.595476	-103.630011	-143.24	0.00	0.00	0.00
3,600.00	7.00	244.22	3,579.35	-149.85	-310.24	581,075.72	757,929.47	32.595462	-103.630047	-148.49	0.00	0.00	0.00
3,670.48	7.00	244.22	3,649.30	-153.59	-317.98	581,071.98	757,921.73	32.595451	-103.630072	-152.20	0.00	0.00	0.00
Seven Rivers													
3,687.60	7.00	244.22	3,666.30	-154.49	-319.86	581,071.08	757,919.85	32.595449	-103.630079	-153.10	0.00	0.00	0.00
Queen													
3,700.00	7.00	244.22	3,678.60	-155.15	-321.22	581,070.42	757,918.49	32.595447	-103.630083	-153.75	0.00	0.00	0.00
3,800.00	7.00	244.22	3,777.86	-160.46	-332.20	581,065.11	757,907.51	32.595433	-103.630119	-159.01	0.00	0.00	0.00
3,845.78	7.00	244.22	3,823.30	-162.88	-337.23	581,062.69	757,902.48	32.595426	-103.630135	-161.41	0.00	0.00	0.00
Top of Capitan Reef													
3,900.00	7.00	244.22	3,877.11	-165.76	-343.18	581,059.81	757,896.53	32.595418	-103.630155	-164.26	0.00	0.00	0.00
4,000.00	7.00	244.22	3,976.36	-171.06	-354.16	581,054.51	757,885.55	32.595404	-103.630190	-169.52	0.00	0.00	0.00
4,100.00	7.00	244.22	4,075.62	-176.37	-365.15	581,049.20	757,874.56	32.595390	-103.630226	-174.77	0.00	0.00	0.00
4,200.00	7.00	244.22	4,174.87	-181.67	-376.13	581,043.90	757,863.58	32.595375	-103.630262	-180.03	0.00	0.00	0.00
4,300.00	7.00	244.22	4,274.12	-186.98	-387.11	581,038.59	757,852.60	32.595361	-103.630298	-185.29	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**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)
4,400.00	7.00	244.22	4,373.38	-192.28	-398.09	581,033.29	757,841.62	32.595346	-103.630333	-190.54	0.00	0.00	0.00
4,500.00	7.00	244.22	4,472.63	-197.59	-409.07	581,027.98	757,830.64	32.595332	-103.630369	-195.80	0.00	0.00	0.00
4,600.00	7.00	244.22	4,571.89	-202.89	-420.05	581,022.68	757,819.66	32.595318	-103.630405	-201.05	0.00	0.00	0.00
4,700.00	7.00	244.22	4,671.14	-208.19	-431.03	581,017.38	757,808.68	32.595303	-103.630441	-206.31	0.00	0.00	0.00
4,800.00	7.00	244.22	4,770.39	-213.50	-442.02	581,012.07	757,797.69	32.595289	-103.630476	-211.57	0.00	0.00	0.00
4,900.00	7.00	244.22	4,869.65	-218.80	-453.00	581,006.77	757,786.71	32.595275	-103.630512	-216.82	0.00	0.00	0.00
5,000.00	7.00	244.22	4,968.90	-224.11	-463.98	581,001.46	757,775.73	32.595260	-103.630548	-222.08	0.00	0.00	0.00
5,100.00	7.00	244.22	5,068.15	-229.41	-474.96	580,996.16	757,764.75	32.595246	-103.630584	-227.34	0.00	0.00	0.00
5,198.21	7.00	244.22	5,165.63	-234.62	-485.75	580,990.95	757,753.97	32.595232	-103.630619	-232.50	0.00	0.00	0.00
Drop, 2.00°/100' DLS													
5,200.00	6.97	244.22	5,167.41	-234.71	-485.94	580,990.86	757,753.77	32.595231	-103.630620	-232.59	2.00	-2.00	0.00
5,300.00	4.97	244.22	5,266.86	-239.24	-495.30	580,986.33	757,744.41	32.595219	-103.630650	-237.07	2.00	-2.00	0.00
5,388.67	3.20	244.22	5,355.30	-241.98	-500.99	580,983.59	757,738.72	32.595212	-103.630669	-239.79	2.00	-2.00	0.00
Base of Capitan Reef/ Cherry Canyon													
5,400.00	2.97	244.22	5,366.61	-242.25	-501.54	580,983.32	757,738.17	32.595211	-103.630670	-240.06	2.00	-2.00	0.00
5,500.00	0.97	244.22	5,466.55	-243.74	-504.63	580,981.83	757,735.08	32.595207	-103.630680	-241.54	2.00	-2.00	0.00
5,548.45	0.00	0.01	5,515.00	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	2.00	-2.00	0.00
Hold - 5548.45' MD/5515.00' TVD													
5,600.00	0.00	0.00	5,566.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
5,700.00	0.00	0.00	5,666.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
5,800.00	0.00	0.00	5,766.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
5,900.00	0.00	0.00	5,866.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
6,000.00	0.00	0.00	5,966.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
6,100.00	0.00	0.00	6,066.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
6,200.00	0.00	0.00	6,166.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
6,300.00	0.00	0.00	6,266.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
6,400.00	0.00	0.00	6,366.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
6,485.75	0.00	0.00	6,452.30	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
Brushy Canyon													
6,500.00	0.00	0.00	6,466.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
6,600.00	0.00	0.00	6,566.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
6,700.00	0.00	0.00	6,666.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
6,800.00	0.00	0.00	6,766.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
6,900.00	0.00	0.00	6,866.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
7,000.00	0.00	0.00	6,966.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
7,100.00	0.00	0.00	7,066.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
7,200.00	0.00	0.00	7,166.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
7,300.00	0.00	0.00	7,266.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,400.00	0.00	0.00	7,366.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
7,500.00	0.00	0.00	7,466.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
7,600.00	0.00	0.00	7,566.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
7,700.00	0.00	0.00	7,666.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
7,800.00	0.00	0.00	7,766.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
7,900.00	0.00	0.00	7,866.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
8,000.00	0.00	0.00	7,966.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
8,100.00	0.00	0.00	8,066.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
8,200.00	0.00	0.00	8,166.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
8,300.00	0.00	0.00	8,266.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
8,327.75	0.00	0.00	8,294.30	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
Bone Spring Lime													
8,400.00	0.00	0.00	8,366.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
8,500.00	0.00	0.00	8,466.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
8,530.75	0.00	0.00	8,497.30	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
Leonard/Avalon Sand													
8,600.00	0.00	0.00	8,566.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
8,700.00	0.00	0.00	8,666.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
8,800.00	0.00	0.00	8,766.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
8,900.00	0.00	0.00	8,866.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
9,000.00	0.00	0.00	8,966.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
9,100.00	0.00	0.00	9,066.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
9,200.00	0.00	0.00	9,166.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
9,300.00	0.00	0.00	9,266.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
9,376.75	0.00	0.00	9,343.30	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
1st Bone Spring Sand													
9,400.00	0.00	0.00	9,366.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
9,500.00	0.00	0.00	9,466.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
9,600.00	0.00	0.00	9,566.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
9,700.00	0.00	0.00	9,666.55	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
9,712.49	0.00	0.00	9,679.04	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	0.00	0.00	0.00
KOP - Start 10.00°/100' DLS													
9,714.41	0.19	350.00	9,680.96	-243.92	-505.00	580,981.65	757,734.71	32.595207	-103.630682	-241.71	10.00	10.00	0.00
KOP/LP/FTP (LD 2-26 FC 223H)													
9,750.00	3.75	350.00	9,716.52	-242.71	-505.21	580,982.86	757,734.50	32.595210	-103.630682	-240.50	10.00	10.00	0.00
9,800.00	8.75	350.00	9,766.21	-237.35	-506.16	580,988.22	757,733.55	32.595225	-103.630685	-235.14	10.00	10.00	0.00
9,850.00	13.75	350.00	9,815.23	-227.75	-507.85	580,997.82	757,731.86	32.595251	-103.630691	-225.53	10.00	10.00	0.00
9,890.61	17.81	350.00	9,854.30	-216.87	-509.77	581,008.70	757,729.94	32.595281	-103.630696	-214.65	10.00	10.00	0.00
2nd Bone Spring Sand													

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**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)
9,900.00	18.75	350.00	9,863.22	-213.97	-510.28	581,011.60	757,729.43	32.595289	-103.630698	-211.74	10.00	10.00	0.00
9,950.00	23.75	350.00	9,909.80	-196.13	-513.43	581,029.44	757,726.28	32.595338	-103.630708	-193.89	10.00	10.00	0.00
10,000.00	28.75	350.00	9,954.63	-174.36	-517.27	581,051.21	757,722.44	32.595398	-103.630720	-172.10	10.00	10.00	0.00
10,050.00	33.75	350.00	9,997.37	-148.82	-521.77	581,076.75	757,717.94	32.595468	-103.630734	-146.54	10.00	10.00	0.00
10,100.00	38.75	350.00	10,037.67	-119.71	-526.90	581,105.86	757,712.81	32.595548	-103.630750	-117.41	10.00	10.00	0.00
10,150.00	43.75	350.00	10,075.25	-87.26	-532.62	581,138.31	757,707.09	32.595638	-103.630768	-84.93	10.00	10.00	0.00
10,200.00	48.75	350.00	10,109.82	-51.70	-538.89	581,173.87	757,700.82	32.595735	-103.630788	-49.35	10.00	10.00	0.00
10,250.00	53.75	350.00	10,141.10	-13.31	-545.66	581,212.26	757,694.05	32.595841	-103.630809	-10.93	10.00	10.00	0.00
10,300.00	58.75	350.00	10,168.87	27.62	-552.88	581,253.19	757,686.83	32.595954	-103.630831	30.03	10.00	10.00	0.00
10,350.00	63.75	350.00	10,192.91	70.78	-560.49	581,296.35	757,679.22	32.596072	-103.630855	73.22	10.00	10.00	0.00
10,400.00	68.75	350.00	10,213.04	115.83	-568.43	581,341.40	757,671.28	32.596196	-103.630880	118.31	10.00	10.00	0.00
10,433.61	72.11	350.00	10,224.30	147.02	-573.93	581,372.59	757,665.78	32.596282	-103.630897	149.52	10.00	10.00	0.00
2nd Bone Spring Sand Lower Target													
10,450.00	73.75	350.00	10,229.11	162.45	-576.65	581,388.02	757,663.06	32.596325	-103.630906	164.96	10.00	10.00	0.00
10,500.00	78.75	350.00	10,240.99	210.26	-585.08	581,435.83	757,654.63	32.596456	-103.630932	212.81	10.00	10.00	0.00
10,550.00	83.75	350.00	10,248.59	258.91	-593.66	581,484.48	757,646.05	32.596590	-103.630959	261.50	10.00	10.00	0.00
10,600.00	88.75	350.00	10,251.86	308.03	-602.32	581,533.60	757,637.39	32.596725	-103.630986	310.66	10.00	10.00	0.00
10,612.49	90.00	350.00	10,252.00	320.33	-604.49	581,545.90	757,635.22	32.596759	-103.630993	322.97	10.00	10.00	0.00
LP - 10612.49' MD													
10,700.00	90.00	350.00	10,252.00	406.51	-619.69	581,632.08	757,620.02	32.596996	-103.631040	409.21	0.00	0.00	0.00
10,800.00	90.00	350.00	10,252.00	504.99	-637.05	581,730.56	757,602.66	32.597267	-103.631094	507.77	0.00	0.00	0.00
10,900.00	90.00	350.00	10,252.00	603.47	-654.42	581,829.04	757,585.29	32.597538	-103.631149	606.32	0.00	0.00	0.00
11,000.00	90.00	350.00	10,252.00	701.95	-671.78	581,927.52	757,567.93	32.597809	-103.631203	704.88	0.00	0.00	0.00
11,100.00	90.00	350.00	10,252.00	800.44	-689.15	582,026.01	757,550.56	32.598080	-103.631257	803.43	0.00	0.00	0.00
11,200.00	90.00	350.00	10,252.00	898.92	-706.51	582,124.49	757,533.20	32.598351	-103.631311	901.99	0.00	0.00	0.00
11,300.00	90.00	350.00	10,252.00	997.40	-723.88	582,222.97	757,515.83	32.598622	-103.631366	1,000.55	0.00	0.00	0.00
11,400.00	90.00	350.00	10,252.00	1,095.88	-741.24	582,321.45	757,498.47	32.598893	-103.631420	1,099.10	0.00	0.00	0.00
11,500.00	90.00	350.00	10,252.00	1,194.36	-758.61	582,419.93	757,481.10	32.599164	-103.631474	1,197.66	0.00	0.00	0.00
11,600.00	90.00	350.00	10,252.00	1,292.84	-775.97	582,518.41	757,463.74	32.599435	-103.631528	1,296.21	0.00	0.00	0.00
11,700.00	90.00	350.00	10,252.00	1,391.32	-793.34	582,616.89	757,446.37	32.599706	-103.631583	1,394.77	0.00	0.00	0.00
11,777.49	90.00	350.00	10,252.00	1,467.63	-806.79	582,693.20	757,432.92	32.599916	-103.631625	1,471.14	0.00	0.00	0.00
Start DLS 2.00 TFO 90.00													
11,800.00	90.00	350.45	10,252.00	1,489.82	-810.61	582,715.39	757,429.10	32.599977	-103.631637	1,493.34	2.00	0.00	2.00
11,900.00	90.00	352.45	10,252.00	1,588.70	-825.48	582,814.27	757,414.23	32.600249	-103.631683	1,592.29	2.00	0.00	2.00
12,000.00	90.00	354.45	10,252.00	1,688.04	-836.89	582,913.61	757,402.82	32.600523	-103.631718	1,691.68	2.00	0.00	2.00
12,100.00	90.00	356.45	10,252.00	1,787.72	-844.82	583,013.29	757,394.89	32.600797	-103.631741	1,791.39	2.00	0.00	2.00
12,200.00	90.00	358.45	10,252.00	1,887.62	-849.27	583,113.19	757,390.44	32.601071	-103.631754	1,891.31	2.00	0.00	2.00
12,264.85	90.00	359.75	10,252.00	1,952.46	-850.29	583,178.03	757,389.42	32.601250	-103.631756	1,956.15	2.00	0.00	2.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**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)
Hold - 12264.85' MD/10252.00' TVD													
12,300.00	90.00	359.75	10,252.00	1,987.61	-850.44	583,213.18	757,389.27	32.601346	-103.631755	1,991.30	0.00	0.00	0.00
12,400.00	90.00	359.75	10,252.00	2,087.61	-850.88	583,313.18	757,388.83	32.601621	-103.631755	2,091.30	0.00	0.00	0.00
12,500.00	90.00	359.75	10,252.00	2,187.61	-851.33	583,413.18	757,388.38	32.601896	-103.631754	2,191.30	0.00	0.00	0.00
12,600.00	90.00	359.75	10,252.00	2,287.60	-851.77	583,513.17	757,387.94	32.602171	-103.631753	2,291.30	0.00	0.00	0.00
12,700.00	90.00	359.75	10,252.00	2,387.60	-852.21	583,613.17	757,387.50	32.602446	-103.631753	2,391.30	0.00	0.00	0.00
12,800.00	90.00	359.75	10,252.00	2,487.60	-852.65	583,713.17	757,387.06	32.602721	-103.631752	2,491.30	0.00	0.00	0.00
12,900.00	90.00	359.75	10,252.00	2,587.60	-853.09	583,813.17	757,386.62	32.602995	-103.631751	2,591.30	0.00	0.00	0.00
13,000.00	90.00	359.75	10,252.00	2,687.60	-853.53	583,913.17	757,386.18	32.603270	-103.631750	2,691.30	0.00	0.00	0.00
13,100.00	90.00	359.75	10,252.00	2,787.60	-853.97	584,013.17	757,385.74	32.603545	-103.631750	2,791.30	0.00	0.00	0.00
13,200.00	90.00	359.75	10,252.00	2,887.60	-854.41	584,113.17	757,385.30	32.603820	-103.631749	2,891.30	0.00	0.00	0.00
13,300.00	90.00	359.75	10,252.00	2,987.60	-854.85	584,213.17	757,384.86	32.604095	-103.631748	2,991.30	0.00	0.00	0.00
13,400.00	90.00	359.75	10,252.00	3,087.60	-855.30	584,313.17	757,384.41	32.604370	-103.631748	3,091.30	0.00	0.00	0.00
13,500.00	90.00	359.75	10,252.00	3,187.60	-855.74	584,413.17	757,383.97	32.604645	-103.631747	3,191.30	0.00	0.00	0.00
13,600.00	90.00	359.75	10,252.00	3,287.60	-856.18	584,513.17	757,383.53	32.604919	-103.631746	3,291.30	0.00	0.00	0.00
13,700.00	90.00	359.75	10,252.00	3,387.59	-856.62	584,613.16	757,383.09	32.605194	-103.631745	3,391.30	0.00	0.00	0.00
13,800.00	90.00	359.75	10,252.00	3,487.59	-857.06	584,713.16	757,382.65	32.605469	-103.631745	3,491.30	0.00	0.00	0.00
13,900.00	90.00	359.75	10,252.00	3,587.59	-857.50	584,813.16	757,382.21	32.605744	-103.631744	3,591.30	0.00	0.00	0.00
14,000.00	90.00	359.75	10,252.00	3,687.59	-857.94	584,913.16	757,381.77	32.606019	-103.631743	3,691.30	0.00	0.00	0.00
14,100.00	90.00	359.75	10,252.00	3,787.59	-858.38	585,013.16	757,381.33	32.606294	-103.631743	3,791.30	0.00	0.00	0.00
14,200.00	90.00	359.75	10,252.00	3,887.59	-858.83	585,113.16	757,380.88	32.606569	-103.631742	3,891.30	0.00	0.00	0.00
14,300.00	90.00	359.75	10,252.00	3,987.59	-859.27	585,213.16	757,380.44	32.606843	-103.631741	3,991.30	0.00	0.00	0.00
14,400.00	90.00	359.75	10,252.00	4,087.59	-859.71	585,313.16	757,380.00	32.607118	-103.631740	4,091.30	0.00	0.00	0.00
14,500.00	90.00	359.75	10,252.00	4,187.59	-860.15	585,413.16	757,379.56	32.607393	-103.631740	4,191.30	0.00	0.00	0.00
14,600.00	90.00	359.75	10,252.00	4,287.59	-860.59	585,513.16	757,379.12	32.607668	-103.631739	4,291.30	0.00	0.00	0.00
14,700.00	90.00	359.75	10,252.00	4,387.58	-861.03	585,613.15	757,378.68	32.607943	-103.631738	4,391.30	0.00	0.00	0.00
14,800.00	90.00	359.75	10,252.00	4,487.58	-861.47	585,713.15	757,378.24	32.608218	-103.631738	4,491.30	0.00	0.00	0.00
14,900.00	90.00	359.75	10,252.00	4,587.58	-861.91	585,813.15	757,377.80	32.608493	-103.631737	4,591.30	0.00	0.00	0.00
15,000.00	90.00	359.75	10,252.00	4,687.58	-862.35	585,913.15	757,377.36	32.608767	-103.631736	4,691.30	0.00	0.00	0.00
15,100.00	90.00	359.75	10,252.00	4,787.58	-862.80	586,013.15	757,376.91	32.609042	-103.631736	4,791.30	0.00	0.00	0.00
15,200.00	90.00	359.75	10,252.00	4,887.58	-863.24	586,113.15	757,376.47	32.609317	-103.631735	4,891.30	0.00	0.00	0.00
15,300.00	90.00	359.75	10,252.00	4,987.58	-863.68	586,213.15	757,376.03	32.609592	-103.631734	4,991.30	0.00	0.00	0.00
15,400.00	90.00	359.75	10,252.00	5,087.58	-864.12	586,313.15	757,375.59	32.609867	-103.631733	5,091.30	0.00	0.00	0.00
15,500.00	90.00	359.75	10,252.00	5,187.58	-864.56	586,413.15	757,375.15	32.610142	-103.631733	5,191.30	0.00	0.00	0.00
15,600.00	90.00	359.75	10,252.00	5,287.58	-865.00	586,513.15	757,374.71	32.610417	-103.631732	5,291.30	0.00	0.00	0.00
15,700.00	90.00	359.75	10,252.00	5,387.57	-865.44	586,613.14	757,374.27	32.610691	-103.631731	5,391.30	0.00	0.00	0.00
15,800.00	90.00	359.75	10,252.00	5,487.57	-865.88	586,713.14	757,373.83	32.610966	-103.631731	5,491.30	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,900.00	90.00	359.75	10,252.00	5,587.57	-866.33	586,813.14	757,373.38	32.611241	-103.631730	5,591.30	0.00	0.00	0.00
16,000.00	90.00	359.75	10,252.00	5,687.57	-866.77	586,913.14	757,372.94	32.611516	-103.631729	5,691.30	0.00	0.00	0.00
16,100.00	90.00	359.75	10,252.00	5,787.57	-867.21	587,013.14	757,372.50	32.611791	-103.631728	5,791.30	0.00	0.00	0.00
16,200.00	90.00	359.75	10,252.00	5,887.57	-867.65	587,113.14	757,372.06	32.612066	-103.631728	5,891.30	0.00	0.00	0.00
16,300.00	90.00	359.75	10,252.00	5,987.57	-868.09	587,213.14	757,371.62	32.612341	-103.631727	5,991.30	0.00	0.00	0.00
16,400.00	90.00	359.75	10,252.00	6,087.57	-868.53	587,313.14	757,371.18	32.612615	-103.631726	6,091.30	0.00	0.00	0.00
16,500.00	90.00	359.75	10,252.00	6,187.57	-868.97	587,413.14	757,370.74	32.612890	-103.631726	6,191.30	0.00	0.00	0.00
16,600.00	90.00	359.75	10,252.00	6,287.57	-869.41	587,513.14	757,370.30	32.613165	-103.631725	6,291.30	0.00	0.00	0.00
16,700.00	90.00	359.75	10,252.00	6,387.57	-869.85	587,613.13	757,369.86	32.613440	-103.631724	6,391.30	0.00	0.00	0.00
16,800.00	90.00	359.75	10,252.00	6,487.56	-870.30	587,713.13	757,369.41	32.613715	-103.631723	6,491.30	0.00	0.00	0.00
16,900.00	90.00	359.75	10,252.00	6,587.56	-870.74	587,813.13	757,368.97	32.613990	-103.631723	6,591.30	0.00	0.00	0.00
17,000.00	90.00	359.75	10,252.00	6,687.56	-871.18	587,913.13	757,368.53	32.614265	-103.631722	6,691.30	0.00	0.00	0.00
17,100.00	90.00	359.75	10,252.00	6,787.56	-871.62	588,013.13	757,368.09	32.614539	-103.631721	6,791.30	0.00	0.00	0.00
17,200.00	90.00	359.75	10,252.00	6,887.56	-872.06	588,113.13	757,367.65	32.614814	-103.631721	6,891.30	0.00	0.00	0.00
17,300.00	90.00	359.75	10,252.00	6,987.56	-872.50	588,213.13	757,367.21	32.615089	-103.631720	6,991.30	0.00	0.00	0.00
17,400.00	90.00	359.75	10,252.00	7,087.56	-872.94	588,313.13	757,366.77	32.615364	-103.631719	7,091.30	0.00	0.00	0.00
17,500.00	90.00	359.75	10,252.00	7,187.56	-873.38	588,413.13	757,366.33	32.615639	-103.631718	7,191.30	0.00	0.00	0.00
17,600.00	90.00	359.75	10,252.00	7,287.56	-873.83	588,513.13	757,365.88	32.615914	-103.631718	7,291.30	0.00	0.00	0.00
17,700.00	90.00	359.75	10,252.00	7,387.56	-874.27	588,613.13	757,365.44	32.616189	-103.631717	7,391.30	0.00	0.00	0.00
17,800.00	90.00	359.75	10,252.00	7,487.55	-874.71	588,713.12	757,365.00	32.616463	-103.631716	7,491.30	0.00	0.00	0.00
17,900.00	90.00	359.75	10,252.00	7,587.55	-875.15	588,813.12	757,364.56	32.616738	-103.631716	7,591.30	0.00	0.00	0.00
18,000.00	90.00	359.75	10,252.00	7,687.55	-875.59	588,913.12	757,364.12	32.617013	-103.631715	7,691.30	0.00	0.00	0.00
18,100.00	90.00	359.75	10,252.00	7,787.55	-876.03	589,013.12	757,363.68	32.617288	-103.631714	7,791.30	0.00	0.00	0.00
18,200.00	90.00	359.75	10,252.00	7,887.55	-876.47	589,113.12	757,363.24	32.617563	-103.631713	7,891.30	0.00	0.00	0.00
18,300.00	90.00	359.75	10,252.00	7,987.55	-876.91	589,213.12	757,362.80	32.617838	-103.631713	7,991.30	0.00	0.00	0.00
18,400.00	90.00	359.75	10,252.00	8,087.55	-877.35	589,313.12	757,362.36	32.618113	-103.631712	8,091.30	0.00	0.00	0.00
18,500.00	90.00	359.75	10,252.00	8,187.55	-877.80	589,413.12	757,361.91	32.618387	-103.631711	8,191.30	0.00	0.00	0.00
18,600.00	90.00	359.75	10,252.00	8,287.55	-878.24	589,513.12	757,361.47	32.618662	-103.631711	8,291.30	0.00	0.00	0.00
18,700.00	90.00	359.75	10,252.00	8,387.55	-878.68	589,613.12	757,361.03	32.618937	-103.631710	8,391.30	0.00	0.00	0.00
18,800.00	90.00	359.75	10,252.00	8,487.54	-879.12	589,713.11	757,360.59	32.619212	-103.631709	8,491.30	0.00	0.00	0.00
18,900.00	90.00	359.75	10,252.00	8,587.54	-879.56	589,813.11	757,360.15	32.619487	-103.631708	8,591.30	0.00	0.00	0.00
19,000.00	90.00	359.75	10,252.00	8,687.54	-880.00	589,913.11	757,359.71	32.619762	-103.631708	8,691.30	0.00	0.00	0.00
19,100.00	90.00	359.75	10,252.00	8,787.54	-880.44	590,013.11	757,359.27	32.620037	-103.631707	8,791.30	0.00	0.00	0.00
19,200.00	90.00	359.75	10,252.00	8,887.54	-880.88	590,113.11	757,358.83	32.620311	-103.631706	8,891.30	0.00	0.00	0.00
19,300.00	90.00	359.75	10,252.00	8,987.54	-881.33	590,213.11	757,358.39	32.620586	-103.631706	8,991.30	0.00	0.00	0.00
19,400.00	90.00	359.75	10,252.00	9,087.54	-881.77	590,313.11	757,357.94	32.620861	-103.631705	9,091.30	0.00	0.00	0.00
19,500.00	90.00	359.75	10,252.00	9,187.54	-882.21	590,413.11	757,357.50	32.621136	-103.631704	9,191.30	0.00	0.00	0.00
19,600.00	90.00	359.75	10,252.00	9,287.54	-882.65	590,513.11	757,357.06	32.621411	-103.631704	9,291.30	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**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)
19,700.00	90.00	359.75	10,252.00	9,387.54	-883.09	590,613.11	757,356.62	32.621686	-103.631703	9,391.30	0.00	0.00	0.00
19,800.00	90.00	359.75	10,252.00	9,487.54	-883.53	590,713.10	757,356.18	32.621961	-103.631702	9,491.30	0.00	0.00	0.00
19,900.00	90.00	359.75	10,252.00	9,587.53	-883.97	590,813.10	757,355.74	32.622235	-103.631701	9,591.30	0.00	0.00	0.00
20,000.00	90.00	359.75	10,252.00	9,687.53	-884.41	590,913.10	757,355.30	32.622510	-103.631701	9,691.30	0.00	0.00	0.00
20,100.00	90.00	359.75	10,252.00	9,787.53	-884.85	591,013.10	757,354.86	32.622785	-103.631700	9,791.30	0.00	0.00	0.00
20,200.00	90.00	359.75	10,252.00	9,887.53	-885.30	591,113.10	757,354.41	32.623060	-103.631699	9,891.30	0.00	0.00	0.00
20,300.00	90.00	359.75	10,252.00	9,987.53	-885.74	591,213.10	757,353.97	32.623335	-103.631699	9,991.30	0.00	0.00	0.00
20,400.00	90.00	359.75	10,252.00	10,087.53	-886.18	591,313.10	757,353.53	32.623610	-103.631698	10,091.30	0.00	0.00	0.00
20,500.00	90.00	359.75	10,252.00	10,187.53	-886.62	591,413.10	757,353.09	32.623885	-103.631697	10,191.30	0.00	0.00	0.00
20,600.00	90.00	359.75	10,252.00	10,287.53	-887.06	591,513.10	757,352.65	32.624159	-103.631696	10,291.30	0.00	0.00	0.00
20,700.00	90.00	359.75	10,252.00	10,387.53	-887.50	591,613.10	757,352.21	32.624434	-103.631696	10,391.30	0.00	0.00	0.00
20,800.00	90.00	359.75	10,252.00	10,487.53	-887.94	591,713.10	757,351.77	32.624709	-103.631695	10,491.30	0.00	0.00	0.00
20,900.00	90.00	359.75	10,252.00	10,587.52	-888.38	591,813.09	757,351.33	32.624984	-103.631694	10,591.30	0.00	0.00	0.00
21,000.00	90.00	359.75	10,252.00	10,687.52	-888.82	591,913.09	757,350.89	32.625259	-103.631694	10,691.30	0.00	0.00	0.00
21,100.00	90.00	359.75	10,252.00	10,787.52	-889.27	592,013.09	757,350.44	32.625534	-103.631693	10,791.30	0.00	0.00	0.00
21,200.00	90.00	359.75	10,252.00	10,887.52	-889.71	592,113.09	757,350.00	32.625809	-103.631692	10,891.30	0.00	0.00	0.00
21,300.00	90.00	359.75	10,252.00	10,987.52	-890.15	592,213.09	757,349.56	32.626083	-103.631691	10,991.30	0.00	0.00	0.00
21,400.00	90.00	359.75	10,252.00	11,087.52	-890.59	592,313.09	757,349.12	32.626358	-103.631691	11,091.30	0.00	0.00	0.00
21,500.00	90.00	359.75	10,252.00	11,187.52	-891.03	592,413.09	757,348.68	32.626633	-103.631690	11,191.30	0.00	0.00	0.00
21,600.00	90.00	359.75	10,252.00	11,287.52	-891.47	592,513.09	757,348.24	32.626908	-103.631689	11,291.30	0.00	0.00	0.00
21,700.00	90.00	359.75	10,252.00	11,387.52	-891.91	592,613.09	757,347.80	32.627183	-103.631689	11,391.30	0.00	0.00	0.00
21,800.00	90.00	359.75	10,252.00	11,487.52	-892.35	592,713.09	757,347.36	32.627458	-103.631688	11,491.30	0.00	0.00	0.00
21,900.00	90.00	359.75	10,252.00	11,587.51	-892.80	592,813.08	757,346.91	32.627733	-103.631687	11,591.30	0.00	0.00	0.00
22,000.00	90.00	359.75	10,252.00	11,687.51	-893.24	592,913.08	757,346.47	32.628007	-103.631686	11,691.30	0.00	0.00	0.00
22,100.00	90.00	359.75	10,252.00	11,787.51	-893.68	593,013.08	757,346.03	32.628282	-103.631686	11,791.30	0.00	0.00	0.00
22,200.00	90.00	359.75	10,252.00	11,887.51	-894.12	593,113.08	757,345.59	32.628557	-103.631685	11,891.30	0.00	0.00	0.00
22,300.00	90.00	359.75	10,252.00	11,987.51	-894.56	593,213.08	757,345.15	32.628832	-103.631684	11,991.30	0.00	0.00	0.00
22,400.00	90.00	359.75	10,252.00	12,087.51	-895.00	593,313.08	757,344.71	32.629107	-103.631684	12,091.30	0.00	0.00	0.00
22,500.00	90.00	359.75	10,252.00	12,187.51	-895.44	593,413.08	757,344.27	32.629382	-103.631683	12,191.30	0.00	0.00	0.00
22,600.00	90.00	359.75	10,252.00	12,287.51	-895.88	593,513.08	757,343.83	32.629657	-103.631682	12,291.30	0.00	0.00	0.00
22,700.00	90.00	359.75	10,252.00	12,387.51	-896.32	593,613.08	757,343.39	32.629931	-103.631681	12,391.30	0.00	0.00	0.00
22,800.00	90.00	359.75	10,252.00	12,487.51	-896.77	593,713.08	757,342.94	32.630206	-103.631681	12,491.30	0.00	0.00	0.00
22,900.00	90.00	359.75	10,252.00	12,587.50	-897.21	593,813.07	757,342.50	32.630481	-103.631680	12,591.30	0.00	0.00	0.00
23,000.00	90.00	359.75	10,252.00	12,687.50	-897.65	593,913.07	757,342.06	32.630756	-103.631679	12,691.30	0.00	0.00	0.00
23,100.00	90.00	359.75	10,252.00	12,787.50	-898.09	594,013.07	757,341.62	32.631031	-103.631679	12,791.30	0.00	0.00	0.00
23,158.05	90.00	359.75	10,252.00	12,845.55	-898.35	594,071.12	757,341.36	32.631190	-103.631678	12,849.35	0.00	0.00	0.00
LPP5 (LD 2-26 FC 223H)													

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**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)
23,200.00	90.00	359.75	10,252.00	12,887.50	-898.53	594,113.07	757,341.18	32.631306	-103.631678	12,891.30	0.00	0.00	0.00
23,300.00	90.00	359.75	10,252.00	12,987.50	-898.97	594,213.07	757,340.74	32.631581	-103.631677	12,991.30	0.00	0.00	0.00
23,400.00	90.00	359.75	10,252.00	13,087.50	-899.41	594,313.07	757,340.30	32.631855	-103.631676	13,091.30	0.00	0.00	0.00
23,500.00	90.00	359.75	10,252.00	13,187.50	-899.85	594,413.07	757,339.86	32.632130	-103.631676	13,191.30	0.00	0.00	0.00
23,600.00	90.00	359.75	10,252.00	13,287.50	-900.30	594,513.07	757,339.41	32.632405	-103.631675	13,291.30	0.00	0.00	0.00
23,700.00	90.00	359.75	10,252.00	13,387.50	-900.74	594,613.07	757,338.97	32.632680	-103.631674	13,391.30	0.00	0.00	0.00
23,800.00	90.00	359.75	10,252.00	13,487.50	-901.18	594,713.07	757,338.53	32.632955	-103.631674	13,491.30	0.00	0.00	0.00
23,900.00	90.00	359.75	10,252.00	13,587.50	-901.62	594,813.06	757,338.09	32.633230	-103.631673	13,591.30	0.00	0.00	0.00
24,000.00	90.00	359.75	10,252.00	13,687.49	-902.06	594,913.06	757,337.65	32.633505	-103.631672	13,691.30	0.00	0.00	0.00
24,100.00	90.00	359.75	10,252.00	13,787.49	-902.50	595,013.06	757,337.21	32.633779	-103.631671	13,791.30	0.00	0.00	0.00
24,200.00	90.00	359.75	10,252.00	13,887.49	-902.94	595,113.06	757,336.77	32.634054	-103.631671	13,891.30	0.00	0.00	0.00
24,300.00	90.00	359.75	10,252.00	13,987.49	-903.38	595,213.06	757,336.33	32.634329	-103.631670	13,991.30	0.00	0.00	0.00
24,400.00	90.00	359.75	10,252.00	14,087.49	-903.82	595,313.06	757,335.89	32.634604	-103.631669	14,091.30	0.00	0.00	0.00
24,500.00	90.00	359.75	10,252.00	14,187.49	-904.27	595,413.06	757,335.44	32.634879	-103.631669	14,191.30	0.00	0.00	0.00
24,600.00	90.00	359.75	10,252.00	14,287.49	-904.71	595,513.06	757,335.00	32.635154	-103.631668	14,291.30	0.00	0.00	0.00
24,700.00	90.00	359.75	10,252.00	14,387.49	-905.15	595,613.06	757,334.56	32.635429	-103.631667	14,391.30	0.00	0.00	0.00
24,800.00	90.00	359.75	10,252.00	14,487.49	-905.59	595,713.06	757,334.12	32.635703	-103.631667	14,491.30	0.00	0.00	0.00
24,900.00	90.00	359.75	10,252.00	14,587.49	-906.03	595,813.06	757,333.68	32.635978	-103.631666	14,591.30	0.00	0.00	0.00
25,000.00	90.00	359.75	10,252.00	14,687.48	-906.47	595,913.05	757,333.24	32.636253	-103.631665	14,691.30	0.00	0.00	0.00
25,100.00	90.00	359.75	10,252.00	14,787.48	-906.91	596,013.05	757,332.80	32.636528	-103.631664	14,791.30	0.00	0.00	0.00
25,200.00	90.00	359.75	10,252.00	14,887.48	-907.35	596,113.05	757,332.36	32.636803	-103.631664	14,891.30	0.00	0.00	0.00
25,300.00	90.00	359.75	10,252.00	14,987.48	-907.80	596,213.05	757,331.91	32.637078	-103.631663	14,991.30	0.00	0.00	0.00
25,400.00	90.00	359.75	10,252.00	15,087.48	-908.24	596,313.05	757,331.47	32.637353	-103.631662	15,091.30	0.00	0.00	0.00
25,500.00	90.00	359.75	10,252.00	15,187.48	-908.68	596,413.05	757,331.03	32.637627	-103.631662	15,191.30	0.00	0.00	0.00
25,600.00	90.00	359.75	10,252.00	15,287.48	-909.12	596,513.05	757,330.59	32.637902	-103.631661	15,291.30	0.00	0.00	0.00
25,693.20	90.00	359.75	10,252.00	15,380.68	-909.53	596,606.25	757,330.18	32.638159	-103.631660	15,384.50	0.00	0.00	0.00
TD - 25693.20' MD - LTP/PBHL - 100' FNL, 1980' FEL (LD 2-26 FC 223H)													

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**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
LPP1 (LD 2-26 FC 22 - plan misses target center by 5001.70usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	4,926.57	-863.65	586,152.14	757,376.06	32.609424	-103.631735
LPP5 (LD 2-26 FC 22 - plan misses target center by 10252.00usft at 23158.05usft MD (10252.00 TVD, 12845.55 N, -898.35 E) - Point	0.00	0.00	0.00	12,845.55	-898.40	594,071.12	757,341.31	32.631190	-103.631678
LPP2 (LD 2-26 FC 22 - plan misses target center by 7616.00usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	7,565.54	-875.23	588,791.11	757,364.48	32.616678	-103.631716
LPP3 (LD 2-26 FC 22 - plan misses target center by 8930.10usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	8,886.53	-881.03	590,112.10	757,358.68	32.620309	-103.631707
LPP4 (LD 2-26 FC 22 - plan misses target center by 10245.98usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	10,207.53	-886.83	591,433.10	757,352.88	32.623940	-103.631697
KOP/LP/FTP (LD 2-26 - plan misses target center by 335.97usft at 9712.59usft MD (9679.14 TVD, -243.92 N, -505.00 E) - Point	0.00	0.00	9,679.04	-243.75	-840.97	580,981.82	757,398.74	32.595213	-103.631772
LTP/PBHL - 100' FNL, - plan hits target center - Point	0.00	0.00	10,252.00	15,380.68	-909.53	596,606.25	757,330.18	32.638159	-103.631660

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,363.25	1,359.30	Rustler		0.00	
1,474.08	1,469.30	A3 Top (surface casing reference)		0.00	
1,563.75	1,558.30	A3 Base (Tamarisk)		0.00	
1,723.95	1,717.30	Top Salt/Salado		0.00	
3,344.04	3,325.30	Yates		0.00	
3,670.48	3,649.30	Seven Rivers		0.00	
3,687.60	3,666.30	Queen		0.00	
3,845.78	3,823.30	Top of Capitan Reef		0.00	
5,388.67	5,355.30	Base of Capitan Reef/ Cherry Canyo		0.00	
6,485.75	6,452.30	Brushy Canyon		0.00	
8,327.75	8,294.30	Bone Spring Lime		0.00	
8,530.75	8,497.30	Leonard/Avalon Sand		0.00	
9,376.75	9,343.30	1st Bone Spring Sand		0.00	
9,890.61	9,854.30	2nd Bone Spring Sand		0.00	
10,433.61	10,224.30	2nd Bone Spring Sand Lower Targe		0.00	

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Well:	Laguna Deep 2-26 Federal Com 223H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	.Total Directional Production DB

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
600	600	0	0	Nudge, Build 2.00°/100'
950	949	-9	-19	Hold - 950.24' MD/949.37' TVD
5198	5166	-235	-486	Drop, 2.00°/100' DLS
5548	5515	-244	-505	Hold - 5548.45' MD/5515.00' TVD
9712	9679	-244	-505	KOP - Start 10.00°/100' DLS
10,612	10,252	320	-604	LP - 10612.49' MD
11,777	10,252	1468	-807	Start DLS 2.00 TFO 90.00
12,265	10,252	1952	-850	Hold - 12264.85' MD/10252.00' TVD
25,693	10,252	15,381	-910	TD - 25693.20' MD

Checked By: _____ Approved By: _____ Date: _____

Coterra Energy

Lea County, NM (NAD 83)
Laguna Deep 2-26 Federal Com Pad
Laguna Deep 2-26 Federal Com 223H

339' FSL, 1137' FEL

OH
Plan #1

Total Directional
"Driven by TOTAL performance"
total

Anticollision Report

Minimum Magnetic Interference Warning level is 20' center to center

22 June, 2026

Total Report Version 1.70

COMPASS 5000.16 Build 97

Click here for our anticollision policy

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,234.90usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Well	Laguna Deep 2-26 Federal Com 223H					
Well Position	**+N/-S**	0.00 usft	**Northing:**	581,225.57 usft	**Latitude:**	32.595868
	+E/-W	0.00 usft	**Easting:**	758,239.71 usft	**Longitude:**	-103.629037
Position Uncertainty		0.50 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,580.40 usft
Grid Convergence:		0.38 °				

Survey Tool Program **Date** 6/22/2026

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	25,693.20	Plan #1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Expierimental: Summary Highlights: Laguna Deep 2-26 Federal Com 223H

- At 646.18 MD, Anaconda 11-14 Federal Com 222H - OH - Plan #1 is 19.97 usft away with a 4.45 SF.
- At 9,841.49 MD, Anaconda 11-14 Federal Com 212H - OH - Plan #1 is 85.37 usft away with a 1.22 SF.
- At 10,655.44 MD, (O) GEM 8705 JV-P 003 - INJ - OH - Surveys is 260.96 usft away with a 1.06 SF.
- At 11,933.02 MD, (O) GEM 8705 JV-P 006H - OH - Surveys is 84.72 usft away with a 1.83 SF.
- At 13,202.85 MD, (O) GEM 8705 JV-P 011H - OH - Surveys is 56.89 usft away with a 1.05 SF.
- At 14,577.03 MD, (O) GEM 8705 JV-P 001 - OH - Surveys is 41.58 usft away with a 0.15 SF.
- At 17,217.03 MD, (O) LAGUNA DEEP UNIT 009 - OH - Surveys is 40.27 usft away with a 0.15 SF.
- At 18,865.39 MD, (O) LAGUNA DEEP FEDERAL 001 - OH - Surveys is 39.26 usft away with a 0.13 SF.
- At 21,855.00 MD, (O) LAGUNA DEEP UNIT 010 - OH - Surveys is 644.76 usft away with a 1.84 SF.
- At 25,131.96 MD, (O) LAGUNA DEEP FEDERAL UNIT 004 - P&A - OH - Surveys is 31.75 usft away with a 0.09 SF.

Offset Listing

Offset Customer - Project - 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
- - Anaconda 11-14 Federal Com Pad								
Anaconda 11-14 Federal Com 212H -	3,580.80	3,603.80	581,225.74	758,259.71	32.595868	-103.628972	0.00	0.00
Anaconda 11-14 Federal Com 222H -	3,579.80	3,602.80	581,225.40	758,219.71	32.595868	-103.629102	0.00	0.00
Anaconda 11-14 Federal Com 223H -	3,581.00	3,604.00	581,226.08	758,299.70	32.595868	-103.628842	0.00	0.00

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Listing

Offset Customer - Project - 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
- - Laguna Deep 2-26 Federal Com Pad								
(O) ANACONDA 11 14 3BS FEDERAL COM 007H -	3,590.70	3,616.70	580,764.04	757,880.32	32.594606	-103.630213	0.00	0.50
(O) ANACONDA 11 14 3BS FEDERAL COM 013H -	3,590.70	3,614.90	580,763.88	757,850.32	32.594606	-103.630311	0.00	0.50
(O) GEM 8705 JV-P 001 -	3,587.00	3,606.00	585,490.01	757,337.63	32.607605	-103.631874	0.00	0.00
(O) GEM 8705 JV-P 002 - P&A -	3,589.00	3,609.00	585,483.53	756,353.16	32.607605	-103.635071	0.00	0.00
(O) GEM 8705 JV-P 003 - INJ -	3,579.00	3,593.00	581,541.58	757,370.76	32.596752	-103.631851	0.00	0.00
(O) GEM 8705 JV-P 006H -	3,585.00	3,585.00	582,872.36	756,052.23	32.600434	-103.636104	0.00	0.00
(O) GEM 8705 JV-P 009 -	3,589.00	3,606.00	585,825.45	758,327.01	32.608509	-103.628654	0.00	0.00
(O) GEM 8705 JV-P 011H -	3,588.00	3,617.80	584,177.39	758,668.99	32.603973	-103.627579	0.00	0.00
(O) LAGUNA DEEP FEDERAL 001 -	3,596.00	3,613.00	589,777.28	757,321.04	32.619389	-103.631836	0.00	0.00
(O) LAGUNA DEEP FEDERAL 003 - P&A -	3,589.00	3,612.00	587,132.74	756,015.92	32.612144	-103.636131	0.00	0.00
(O) LAGUNA DEEP FEDERAL UNIT 002 -	3,596.00	3,627.00	592,411.08	755,997.61	32.626652	-103.636078	0.00	0.00
(O) LAGUNA DEEP FEDERAL UNIT 004 - P&A -	3,625.00	3,643.00	596,044.88	757,300.91	32.636616	-103.631767	0.00	0.00
(O) LAGUNA DEEP UNIT 009 -	3,593.00	3,625.00	588,129.53	757,327.30	32.614860	-103.631851	0.00	0.00
(O) LAGUNA DEEP UNIT 010 -	3,600.00	3,618.00	592,770.94	757,991.86	32.627605	-103.629593	0.00	0.00
(O) LAGUNA DEEP UNIT 021H -	3,611.00	3,636.00	590,791.66	761,634.81	32.622098	-103.617804	0.00	0.00
(O) LAGUNA DEEP UNIT 35 FEDERAL 001 - P&A -	3,636.00	3,659.00	588,470.27	759,003.84	32.615766	-103.626399	0.00	0.00
(O) LAGUNA DEEP UNIT 35 FEDERAL 002H -	3,593.00	3,593.00	587,300.61	758,902.61	32.612553	-103.626753	0.00	0.00
Laguna Deep 2-26 Federal Com 221H -	3,574.90	3,601.40	581,034.85	755,498.79	32.595393	-103.637940	0.00	0.50
Laguna Deep 2-26 Federal Com 222H -	3,574.40	3,600.90	581,035.29	755,538.79	32.595394	-103.637810	0.00	0.50
Laguna Deep 2-26 Federal Com 224H -	3,581.10	3,607.60	581,225.91	758,279.70	32.595868	-103.628907	0.00	0.50
- - Sapphire 14-23 Federal Com Pad								
(O) Sapphire Fed 001 - P&A -	3,639.00	3,639.00	598,357.70	757,621.47	32.642967	-103.630676	0.00	0.00
Sapphire 14-23 Federal Com 501H -	3,691.50	3,714.50	606,872.14	755,234.81	32.666412	-103.638248	0.00	0.00
Sapphire 14-23 Federal Com 502H -	3,691.50	3,714.50	606,872.29	755,254.85	32.666412	-103.638183	0.00	0.00
Sapphire 14-23 Federal Com 503H -	3,701.40	3,724.40	606,955.76	757,805.81	32.666596	-103.629892	0.00	0.00
Sapphire 14-23 Federal Com 504H -	3,701.40	3,724.40	606,955.85	757,825.85	32.666595	-103.629827	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
Anaconda 11-14 Federal Com Pad						
Anaconda 11-14 Federal Com 212H - OH - Plan #1	600.00	596.90	20.00	15.83	4.79	CC
Anaconda 11-14 Federal Com 212H - OH - Plan #1	9,841.49	9,930.82	85.37	15.59	1.22	Level 2, ES, SF
Anaconda 11-14 Federal Com 222H - OH - Plan #1	646.18	641.79	19.97	15.48	4.45	CC
Anaconda 11-14 Federal Com 222H - OH - Plan #1	800.00	794.49	20.64	15.11	3.74	ES
Anaconda 11-14 Federal Com 222H - OH - Plan #1	900.00	893.65	22.50	16.30	3.63	SF
Anaconda 11-14 Federal Com 223H - OH - Plan #1	600.00	597.10	59.99	55.82	14.37	CC, ES
Anaconda 11-14 Federal Com 223H - OH - Plan #1	900.00	896.55	74.48	68.22	11.90	SF

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference 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
Laguna Deep 2-26 Federal Com Pad						
(O) ANACONDA 11 14 3BS FEDERAL COM 007H - OH -	4,883.09	4,865.81	181.44	146.57	5.20	CC
(O) ANACONDA 11 14 3BS FEDERAL COM 007H - OH -	5,000.00	4,981.36	182.13	146.41	5.10	ES
(O) ANACONDA 11 14 3BS FEDERAL COM 007H - OH -	5,700.00	5,672.00	193.30	152.70	4.76	SF
(O) ANACONDA 11 14 3BS FEDERAL COM 013H - OH -	9,709.81	9,701.44	172.48	124.79	3.62	CC, ES, SF
(O) GEM 8705 JV-P 001 - OH - Surveys	14,577.04	10,253.73	41.58	-243.21	0.15	Level 1, CC, ES, SF
(O) GEM 8705 JV-P 002 - P&A - OH - Surveys	14,574.90	10,255.19	1,026.08	774.97	4.09	CC, ES
(O) GEM 8705 JV-P 002 - P&A - OH - Surveys	14,600.00	10,255.19	1,026.38	775.09	4.08	SF
(O) GEM 8705 JV-P 003 - INJ - OH - Surveys	10,655.44	10,239.96	260.96	14.89	1.06	Level 2, CC, ES, SF
(O) GEM 8705 JV-P 006H - OH - Surveys	11,933.02	11,294.10	84.72	38.52	1.83	CC, ES, SF
(O) GEM 8705 JV-P 009 - OH - Surveys	14,908.11	10,254.65	949.26	657.78	3.26	CC, ES, SF
(O) GEM 8705 JV-P 011H - OH - Surveys	13,202.85	11,347.07	56.89	2.52	1.05	Level 2, CC, ES, SF
(O) LAGUNA DEEP FEDERAL 001 - OH - Surveys	18,865.39	10,260.75	39.26	-272.95	0.13	Level 1, CC, ES, SF
(O) LAGUNA DEEP FEDERAL 003 - P&A - OH - Surveys	16,226.18	10,259.62	1,356.04	1,070.68	4.75	CC, ES
(O) LAGUNA DEEP FEDERAL 003 - P&A - OH - Surveys	16,300.00	10,259.38	1,358.04	1,072.12	4.75	SF
(O) LAGUNA DEEP FEDERAL UNIT 002 - OH - Surveys	21,503.95	10,275.03	1,351.06	1,014.50	4.01	CC, ES, SF
(O) LAGUNA DEEP FEDERAL UNIT 004 - P&A - OH - Su	25,131.96	10,290.21	31.75	-309.73	0.09	Level 1, CC, ES, SF
(O) LAGUNA DEEP UNIT 009 - OH - Surveys	17,217.03	10,271.11	40.27	-228.82	0.15	Level 1, CC, ES, SF
(O) LAGUNA DEEP UNIT 010 - OH - Surveys	21,855.01	10,267.34	644.76	295.25	1.84	CC, ES, SF
(O) LAGUNA DEEP UNIT 021H - OH - Surveys	19,910.24	13,513.91	897.94	778.06	7.49	CC
(O) LAGUNA DEEP UNIT 021H - OH - Surveys	20,100.00	13,504.90	917.74	774.70	6.42	ES
(O) LAGUNA DEEP UNIT 021H - OH - Surveys	20,600.00	13,478.83	1,132.00	909.13	5.08	SF
(O) LAGUNA DEEP UNIT 35 FEDERAL 001 - P&A - OH -	17,542.87	10,914.92	914.02	831.01	11.01	CC, ES
(O) LAGUNA DEEP UNIT 35 FEDERAL 001 - P&A - OH -	17,700.00	10,912.33	927.43	842.34	10.90	SF
(O) LAGUNA DEEP UNIT 35 FEDERAL 002H - OH - Surv	16,018.11	10,782.22	838.98	767.47	11.73	CC, ES
(O) LAGUNA DEEP UNIT 35 FEDERAL 002H - OH - Surv	16,300.00	10,764.36	885.03	807.82	11.46	SF
Laguna Deep 2-26 Federal Com 221H - OH - Plan 1						Out of range
Laguna Deep 2-26 Federal Com 222H - OH - Plan 1	25,694.09	25,630.81	1,327.61	1,079.62	5.35	CC, ES, SF
Laguna Deep 2-26 Federal Com 224H - OH - Plan #1	600.00	600.70	39.99	35.76	9.45	CC, ES
Laguna Deep 2-26 Federal Com 224H - OH - Plan #1	25,694.09	25,673.56	1,320.03	1,072.46	5.33	SF
Sapphire 14-23 Federal Com Pad						
(O) Sapphire Fed 001 - P&A - OH - OH	25,694.09	10,287.05	1,774.63	1,475.76	5.94	CC, ES, SF
Sapphire 14-23 Federal Com 501H - OH - Plan #1						Out of range
Sapphire 14-23 Federal Com 502H - OH - Plan #1	25,694.09	20,130.78	1,389.27	1,182.88	6.73	CC, ES, SF
Sapphire 14-23 Federal Com 503H - OH - Plan #1	25,694.09	20,112.80	424.22	235.51	2.25	CC, ES, SF
Sapphire 14-23 Federal Com 504H - OH - Plan #1	25,694.09	20,128.64	1,388.19	1,178.22	6.61	CC, ES, SF

Offset Design: Anaconda 11-14 Federal Com Pad - Anaconda 11-14 Federal Com 212H - 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	3.10	0.50	0.00	89.51	0.17	20.00	20.24				
100.00	100.00	96.90	100.00	0.57	0.27	89.51	0.17	20.00	20.00	19.17	0.83	24.021	
200.00	200.00	196.90	200.00	0.80	0.62	89.51	0.17	20.00	20.00	18.58	1.42	14.071	
300.00	300.00	296.90	300.00	1.10	0.98	89.51	0.17	20.00	20.00	17.92	2.08	9.605	
400.00	400.00	396.90	400.00	1.43	1.34	89.51	0.17	20.00	20.00	17.23	2.77	7.222	
500.00	500.00	496.90	500.00	1.77	1.70	89.51	0.17	20.00	20.00	16.53	3.47	5.767	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Anaconda 11-14 Federal Com Pad - Anaconda 11-14 Federal Com 212H - 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
600.00	600.00	596.90	600.00	2.12	2.06	89.51	0.17	20.00	20.00	15.83	4.17	4.793	CC
700.00	699.98	696.88	699.98	2.45	2.42	-156.67	0.17	20.00	21.59	16.72	4.87	4.434	
800.00	799.84	796.74	799.84	2.79	2.77	-161.13	0.17	20.00	26.48	20.92	5.56	4.761	
900.00	899.45	896.35	899.45	3.13	3.13	-165.73	0.17	20.00	34.84	28.58	6.26	5.565	
1,000.00	998.76	995.66	998.76	3.48	3.49	-169.29	0.17	20.00	46.33	39.37	6.96	6.653	
1,100.00	1,098.01	1,096.68	1,099.76	3.82	3.84	-172.20	0.34	18.38	56.89	49.23	7.66	7.427	
1,200.00	1,197.26	1,198.28	1,201.22	4.18	4.19	-175.59	0.88	13.18	64.40	56.05	8.35	7.710	
1,300.00	1,296.52	1,298.40	1,301.06	4.53	4.54	-179.19	1.65	5.71	70.06	61.00	9.05	7.738	
1,400.00	1,395.77	1,398.16	1,400.53	4.89	4.89	177.75	2.43	-1.78	75.89	66.13	9.76	7.778	
1,500.00	1,495.02	1,497.91	1,500.00	5.25	5.24	175.14	3.21	-9.28	81.91	71.45	10.47	7.827	
1,600.00	1,594.28	1,597.66	1,599.47	5.61	5.60	172.88	3.99	-16.78	88.08	76.91	11.18	7.881	
1,700.00	1,693.53	1,697.42	1,698.94	5.98	5.95	170.93	4.77	-24.27	94.37	82.48	11.89	7.938	
1,800.00	1,792.79	1,797.17	1,798.41	6.34	6.31	169.21	5.55	-31.77	100.75	88.15	12.60	7.994	
1,900.00	1,892.04	1,896.93	1,897.87	6.70	6.66	167.71	6.33	-39.27	107.21	93.89	13.32	8.050	
2,000.00	1,991.29	1,996.68	1,997.34	7.07	7.02	166.37	7.11	-46.76	113.74	99.71	14.04	8.104	
2,100.00	2,090.55	2,096.43	2,096.81	7.43	7.37	165.18	7.89	-54.26	120.32	105.57	14.75	8.156	
2,200.00	2,189.80	2,196.19	2,196.28	7.80	7.73	164.12	8.67	-61.76	126.95	111.48	15.47	8.205	
2,300.00	2,289.05	2,295.94	2,295.75	8.17	8.09	163.16	9.44	-69.25	133.62	117.43	16.19	8.253	
2,400.00	2,388.31	2,395.69	2,395.22	8.53	8.45	162.29	10.22	-76.75	140.32	123.41	16.91	8.298	
2,500.00	2,487.56	2,495.45	2,494.69	8.90	8.80	161.50	11.00	-84.25	147.05	129.42	17.63	8.340	
2,600.00	2,586.81	2,595.20	2,594.15	9.27	9.16	160.78	11.78	-91.74	153.81	135.45	18.35	8.381	
2,700.00	2,686.07	2,694.96	2,693.62	9.63	9.52	160.12	12.56	-99.24	160.58	141.51	19.07	8.419	
2,800.00	2,785.32	2,794.71	2,793.09	10.00	9.88	159.52	13.34	-106.74	167.38	147.59	19.80	8.455	
2,900.00	2,884.57	2,894.46	2,892.56	10.37	10.24	158.96	14.12	-114.23	174.20	153.68	20.52	8.490	
3,000.00	2,983.83	2,994.22	2,992.03	10.74	10.60	158.44	14.90	-121.73	181.03	159.79	21.24	8.523	
3,100.00	3,083.08	3,093.97	3,091.50	11.11	10.96	157.96	15.68	-129.23	187.87	165.91	21.96	8.554	
3,200.00	3,182.34	3,193.72	3,190.97	11.47	11.32	157.52	16.46	-136.72	194.72	172.04	22.69	8.583	
3,300.00	3,281.59	3,293.48	3,290.43	11.84	11.68	157.10	17.23	-144.22	201.59	178.18	23.41	8.611	
3,400.00	3,380.84	3,393.23	3,389.90	12.21	12.04	156.72	18.01	-151.72	208.47	184.33	24.13	8.638	
3,500.00	3,480.10	3,492.98	3,489.37	12.58	12.40	156.35	18.79	-159.21	215.35	190.50	24.86	8.663	
3,600.00	3,579.35	3,592.74	3,588.84	12.95	12.76	156.01	19.57	-166.71	222.25	196.66	25.58	8.688	
3,700.00	3,678.60	3,692.49	3,688.31	13.32	13.12	155.69	20.35	-174.21	229.15	202.84	26.31	8.711	
3,800.00	3,777.86	3,792.25	3,787.78	13.69	13.48	155.39	21.13	-181.70	236.05	209.02	27.03	8.733	
3,900.00	3,877.11	3,892.00	3,887.25	14.05	13.84	155.11	21.91	-189.20	242.97	215.21	27.75	8.754	
4,000.00	3,976.36	3,991.75	3,986.71	14.42	14.20	154.84	22.69	-196.70	249.89	221.41	28.48	8.774	
4,100.00	4,075.62	4,091.51	4,086.18	14.79	14.56	154.59	23.47	-204.19	256.81	227.61	29.20	8.794	
4,200.00	4,174.87	4,191.26	4,185.65	15.16	14.92	154.35	24.25	-211.69	263.74	233.81	29.93	8.812	
4,300.00	4,274.12	4,291.01	4,285.12	15.53	15.28	154.12	25.02	-219.19	270.67	240.02	30.65	8.830	
4,400.00	4,373.38	4,390.77	4,384.59	15.90	15.64	153.90	25.80	-226.68	277.61	246.23	31.38	8.847	
4,500.00	4,472.63	4,490.52	4,484.06	16.27	16.01	153.70	26.58	-234.18	284.55	252.45	32.10	8.864	
4,600.00	4,571.89	4,590.28	4,583.53	16.64	16.37	153.50	27.36	-241.68	291.49	258.67	32.83	8.879	
4,700.00	4,671.14	4,690.03	4,682.99	17.01	16.73	153.31	28.14	-249.17	298.44	264.89	33.55	8.894	
4,800.00	4,770.39	4,789.78	4,782.46	17.38	17.09	153.13	28.92	-256.67	305.39	271.11	34.28	8.909	
4,900.00	4,869.65	4,889.54	4,881.93	17.75	17.45	152.96	29.70	-264.17	312.35	277.34	35.00	8.923	
5,000.00	4,968.90	4,989.29	4,981.40	18.12	17.81	152.80	30.48	-271.66	319.30	283.57	35.73	8.937	
5,100.00	5,068.15	5,089.04	5,080.87	18.49	18.17	152.64	31.26	-279.16	326.26	289.81	36.46	8.950	
5,200.00	5,167.41	5,188.80	5,180.34	18.86	18.53	152.50	32.04	-286.66	333.22	296.04	37.18	8.962	
5,300.00	5,266.86	5,288.63	5,279.89	19.22	18.90	152.26	32.81	-294.16	338.59	300.68	37.90	8.933	
5,400.00	5,366.61	5,388.55	5,379.52	19.58	19.26	151.73	33.60	-301.67	340.89	302.26	38.62	8.826	
5,500.00	5,466.55	5,488.42	5,479.10	19.94	19.62	150.89	34.38	-309.17	340.16	300.82	39.34	8.647	
5,600.00	5,566.55	5,588.16	5,578.56	20.27	19.98	34.01	35.15	-316.67	336.89	296.86	40.04	8.415	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Anaconda 11-14 Federal Com Pad - Anaconda 11-14 Federal Com 212H - 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
5,700.00	5,666.55	5,687.87	5,677.99	20.60	20.34	32.87	35.93	-324.16	333.39	292.67	40.73	8.186	
5,800.00	5,766.55	5,787.59	5,777.42	20.93	20.70	31.70	36.71	-331.66	330.03	288.61	41.42	7.968	
5,900.00	5,866.55	5,887.30	5,876.84	21.27	21.06	30.51	37.49	-339.15	326.81	284.69	42.12	7.760	
6,000.00	5,966.55	5,987.02	5,976.27	21.60	21.43	29.30	38.27	-346.64	323.73	280.92	42.81	7.562	
6,100.00	6,066.55	6,086.73	6,075.70	21.93	21.79	28.06	39.05	-354.14	320.80	277.29	43.51	7.373	
6,200.00	6,166.55	6,186.44	6,175.13	22.27	22.15	26.81	39.83	-361.63	318.03	273.82	44.21	7.194	
6,300.00	6,266.55	6,286.16	6,274.56	22.60	22.51	25.53	40.60	-369.12	315.41	270.50	44.91	7.023	
6,400.00	6,366.55	6,385.87	6,373.99	22.94	22.87	24.23	41.38	-376.62	312.95	267.34	45.61	6.861	
6,500.00	6,466.55	6,485.59	6,473.42	23.27	23.23	22.91	42.16	-384.11	310.65	264.34	46.31	6.708	
6,600.00	6,566.55	6,585.30	6,572.85	23.61	23.59	21.57	42.94	-391.60	308.52	261.51	47.01	6.562	
6,700.00	6,666.55	6,685.01	6,672.28	23.95	23.96	20.21	43.72	-399.10	306.57	258.85	47.72	6.425	
6,800.00	6,766.55	6,784.73	6,771.71	24.28	24.32	18.84	44.50	-406.59	304.79	256.37	48.42	6.294	
6,900.00	6,866.55	6,884.44	6,871.14	24.62	24.68	17.45	45.28	-414.09	303.19	254.06	49.13	6.171	
7,000.00	6,966.55	6,984.16	6,970.56	24.96	25.04	16.05	46.06	-421.58	301.76	251.93	49.84	6.055	
7,100.00	7,066.55	7,083.87	7,069.99	25.30	25.40	14.64	46.83	-429.07	300.52	249.98	50.54	5.946	
7,200.00	7,166.55	7,183.59	7,169.42	25.64	25.76	13.21	47.61	-436.57	299.47	248.22	51.25	5.843	
7,300.00	7,266.55	7,283.30	7,268.85	25.98	26.13	11.78	48.39	-444.06	298.61	246.65	51.96	5.747	
7,400.00	7,366.55	7,383.01	7,368.28	26.33	26.49	10.33	49.17	-451.55	297.93	245.26	52.67	5.657	
7,500.00	7,466.55	7,482.73	7,467.71	26.67	26.85	8.89	49.95	-459.05	297.44	244.06	53.38	5.572	
7,600.00	7,566.55	7,582.44	7,567.14	27.01	27.21	7.44	50.73	-466.54	297.15	243.06	54.09	5.494	
7,700.00	7,666.55	7,682.16	7,666.57	27.35	27.57	5.98	51.51	-474.03	297.04	242.24	54.80	5.420	
7,703.53	7,670.08	7,685.67	7,670.08	27.36	27.58	5.93	51.53	-474.30	297.04	242.22	54.83	5.418	
7,800.00	7,766.55	7,781.87	7,766.00	27.70	27.93	4.53	52.28	-481.53	297.13	241.62	55.51	5.353	
7,900.00	7,866.55	7,881.58	7,865.43	28.04	28.30	3.08	53.06	-489.02	297.42	241.19	56.23	5.290	
8,000.00	7,966.55	7,981.30	7,964.86	28.38	28.66	1.63	53.84	-496.52	297.89	240.95	56.94	5.232	
8,100.00	8,066.55	8,081.01	8,064.29	28.73	29.02	0.19	54.62	-504.01	298.55	240.90	57.65	5.179	
8,200.00	8,166.55	8,180.73	8,163.71	29.07	29.38	-1.24	55.40	-511.50	299.40	241.04	58.36	5.130	
8,300.00	8,266.55	8,280.44	8,263.14	29.42	29.74	-2.67	56.18	-519.00	300.44	241.37	59.08	5.086	
8,400.00	8,366.55	8,380.16	8,362.57	29.76	30.10	-4.09	56.96	-526.49	301.67	241.88	59.79	5.045	
8,500.00	8,466.55	8,479.87	8,462.00	30.11	30.47	-5.49	57.74	-533.98	303.08	242.57	60.50	5.009	
8,600.00	8,566.55	8,579.58	8,561.43	30.45	30.83	-6.88	58.51	-541.48	304.67	243.45	61.22	4.977	
8,700.00	8,666.55	8,679.30	8,660.86	30.80	31.19	-8.25	59.29	-548.97	306.44	244.51	61.93	4.948	
8,800.00	8,766.55	8,779.01	8,760.29	31.15	31.55	-9.61	60.07	-556.46	308.38	245.73	62.65	4.923	
8,900.00	8,866.55	8,878.73	8,859.72	31.49	31.91	-10.95	60.85	-563.96	310.50	247.14	63.36	4.900	
9,000.00	8,966.55	8,978.44	8,959.15	31.84	32.27	-12.27	61.63	-571.45	312.78	248.70	64.07	4.881	
9,100.00	9,066.55	9,078.15	9,058.58	32.19	32.64	-13.57	62.41	-578.95	315.23	250.44	64.79	4.865	
9,200.00	9,166.55	9,177.87	9,158.01	32.54	33.00	-14.85	63.19	-586.44	317.84	252.33	65.50	4.852	
9,300.00	9,266.55	9,295.71	9,275.60	32.88	33.42	-16.13	61.99	-593.44	318.57	252.31	66.25	4.808	
9,400.00	9,366.55	9,453.88	9,432.60	33.23	33.94	-17.23	45.00	-594.61	309.63	243.70	65.93	4.696	
9,500.00	9,466.55	9,634.89	9,599.85	33.58	34.48	-21.91	-22.24	-594.17	273.61	212.03	61.58	4.443	
9,600.00	9,566.55	9,767.03	9,704.36	33.93	34.80	-32.10	-102.62	-593.65	216.38	159.30	57.07	3.791	
9,700.00	9,666.55	9,858.63	9,764.70	34.28	35.00	-50.58	-171.41	-593.20	150.57	94.13	56.44	2.668	
9,800.00	9,766.21	9,916.59	9,796.90	34.63	35.12	-71.51	-219.56	-592.89	93.71	27.83	65.88	1.422	Level 3
9,841.49	9,806.95	9,930.82	9,804.06	34.76	35.15	-81.25	-231.87	-592.81	85.37	15.59	69.78	1.223	Level 2, ES, SF
9,900.00	9,863.22	9,943.47	9,810.15	34.96	35.17	-87.61	-242.95	-592.74	102.25	37.87	64.37	1.588	
10,000.00	9,954.63	9,950.00	9,813.20	35.26	35.18	-80.04	-248.72	-592.70	176.70	123.22	53.47	3.304	
10,100.00	10,037.67	9,950.00	9,813.20	35.52	35.18	-60.01	-248.72	-592.70	267.13	216.18	50.95	5.243	
10,200.00	10,109.82	9,926.97	9,802.15	35.74	35.14	-34.34	-228.52	-592.83	358.94	309.21	49.72	7.219	
10,300.00	10,168.87	9,900.00	9,788.19	35.91	35.09	-20.85	-205.45	-592.98	448.17	398.13	50.04	8.957	
10,400.00	10,213.04	9,878.09	9,776.05	36.05	35.04	-14.35	-187.21	-593.10	532.36	480.76	51.60	10.316	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Anaconda 11-14 Federal Com Pad - Anaconda 11-14 Federal Com 212H - 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
10,500.00	10,240.99	9,850.00	9,759.49	36.17	34.98	-10.35	-164.52	-593.25	610.22	556.96	53.26	11.457	
10,600.00	10,251.86	9,815.80	9,737.85	36.25	34.91	-7.76	-138.04	-593.42	680.63	625.72	54.91	12.395	
10,700.00	10,252.00	9,783.51	9,716.02	36.32	34.84	-6.88	-114.26	-593.57	747.78	691.09	56.68	13.192	
10,800.00	10,252.00	9,750.00	9,691.97	36.41	34.76	-6.20	-90.93	-593.72	818.92	760.82	58.10	14.094	
10,900.00	10,252.00	9,728.11	9,675.54	36.53	34.71	-5.78	-76.46	-593.82	893.47	833.80	59.67	14.974	
11,000.00	10,252.00	9,700.00	9,653.66	36.66	34.64	-5.29	-58.83	-593.93	971.01	910.26	60.75	15.984	
11,100.00	10,252.00	9,682.98	9,640.00	36.81	34.60	-5.02	-48.68	-594.00	1,050.99	989.05	61.95	16.966	
11,200.00	10,252.00	9,650.00	9,612.70	36.97	34.52	-4.53	-30.18	-594.12	1,133.38	1,070.85	62.53	18.124	
11,300.00	10,252.00	9,650.00	9,612.70	37.16	34.52	-4.53	-30.18	-594.12	1,217.15	1,153.38	63.77	19.085	
11,400.00	10,252.00	9,629.89	9,595.55	37.35	34.46	-4.26	-19.69	-594.19	1,302.71	1,238.31	64.39	20.230	
11,500.00	10,252.00	9,600.00	9,569.40	37.57	34.38	-3.90	-5.22	-594.28	1,389.94	1,325.20	64.74	21.470	
11,600.00	10,252.00	9,600.00	9,569.40	37.80	34.38	-3.90	-5.22	-594.28	1,477.81	1,412.26	65.54	22.547	
11,700.00	10,252.00	9,600.00	9,569.40	38.04	34.38	-3.90	-5.22	-594.28	1,567.13	1,500.91	66.22	23.665	
11,800.00	10,252.00	9,578.16	9,549.83	38.30	34.32	-2.70	4.48	-594.35	1,657.11	1,590.62	66.50	24.920	
11,900.00	10,252.00	9,550.00	9,524.08	38.57	34.24	1.76	15.88	-594.42	1,748.43	1,681.77	66.66	26.229	
12,000.00	10,252.00	9,550.00	9,524.08	38.85	34.24	6.24	15.88	-594.42	1,839.78	1,772.63	67.15	27.398	
12,100.00	10,252.00	9,550.00	9,524.08	39.14	34.24	10.90	15.88	-594.42	1,931.84	1,864.26	67.58	28.586	
12,200.00	10,252.00	9,550.00	9,524.08	39.44	34.24	15.67	15.88	-594.42	2,024.41	1,956.45	67.96	29.790	
12,300.00	10,252.00	9,550.00	9,524.08	39.74	34.24	18.77	15.88	-594.42	2,117.34	2,049.05	68.29	31.005	
12,400.00	10,252.00	9,525.25	9,501.02	40.05	34.16	18.23	24.84	-594.48	2,210.14	2,141.77	68.37	32.326	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Anaconda 11-14 Federal Com Pad - Anaconda 11-14 Federal Com 222H - 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	4.10	0.50	0.00	-90.49	-0.17	-20.00	20.42				
100.00	100.00	95.90	100.00	0.57	0.26	-90.49	-0.17	-20.00	20.00	19.17	0.83	24.101	
200.00	200.00	195.90	200.00	0.80	0.62	-90.49	-0.17	-20.00	20.00	18.58	1.42	14.107	
300.00	300.00	295.90	300.00	1.10	0.98	-90.49	-0.17	-20.00	20.00	17.92	2.08	9.621	
400.00	400.00	395.90	400.00	1.43	1.34	-90.49	-0.17	-20.00	20.00	17.23	2.77	7.231	
500.00	500.00	495.90	500.00	1.77	1.70	-90.49	-0.17	-20.00	20.00	16.54	3.46	5.773	
600.00	600.00	595.90	600.00	2.12	2.05	-90.49	-0.17	-20.00	20.00	15.83	4.17	4.797	
646.18	646.18	641.79	645.89	2.27	2.22	25.85	-0.14	-20.30	19.97	15.48	4.49	4.451	CC
700.00	699.98	695.23	699.32	2.45	2.40	27.93	0.00	-21.57	20.03	15.17	4.85	4.125	
800.00	799.84	794.49	798.44	2.79	2.75	35.66	0.53	-26.56	20.64	15.11	5.53	3.735	ES
900.00	899.45	893.65	897.23	3.13	3.10	47.12	1.42	-34.95	22.50	16.30	6.20	3.629	SF
1,000.00	998.76	992.80	995.68	3.48	3.45	58.91	2.67	-46.68	26.56	19.67	6.89	3.855	
1,100.00	1,098.01	1,092.56	1,094.59	3.82	3.81	66.94	4.05	-59.61	32.20	24.60	7.60	4.236	
1,200.00	1,197.26	1,192.32	1,193.49	4.18	4.17	72.50	5.43	-72.54	38.28	29.96	8.32	4.602	
1,300.00	1,296.52	1,292.07	1,292.40	4.53	4.53	76.51	6.81	-85.47	44.62	35.59	9.04	4.937	
1,400.00	1,395.77	1,391.83	1,391.31	4.89	4.89	79.51	8.19	-98.40	51.13	41.37	9.76	5.237	
1,500.00	1,495.02	1,491.59	1,490.21	5.25	5.25	81.83	9.56	-111.33	57.75	47.26	10.49	5.506	
1,600.00	1,594.28	1,591.35	1,589.12	5.61	5.61	83.67	10.94	-124.26	64.43	53.22	11.21	5.746	
1,700.00	1,693.53	1,691.10	1,688.02	5.98	5.98	85.16	12.32	-137.19	71.18	59.24	11.94	5.960	
1,800.00	1,792.79	1,790.86	1,786.93	6.34	6.34	86.40	13.70	-150.12	77.96	65.29	12.67	6.152	
1,900.00	1,892.04	1,890.62	1,885.83	6.70	6.71	87.43	15.08	-163.05	84.77	71.37	13.40	6.326	
2,000.00	1,991.29	1,990.37	1,984.74	7.07	7.08	88.32	16.45	-175.98	91.61	77.48	14.13	6.482	
2,100.00	2,090.55	2,090.13	2,083.65	7.43	7.44	89.07	17.83	-188.91	98.47	83.60	14.86	6.624	
2,200.00	2,189.80	2,189.89	2,182.55	7.80	7.81	89.73	19.21	-201.84	105.34	89.74	15.60	6.754	
2,300.00	2,289.05	2,289.64	2,281.46	8.17	8.18	90.31	20.59	-214.77	112.22	95.89	16.33	6.872	
2,400.00	2,388.31	2,389.40	2,380.36	8.53	8.54	90.83	21.97	-227.70	119.11	102.05	17.06	6.981	
2,500.00	2,487.56	2,489.16	2,479.27	8.90	8.91	91.28	23.34	-240.63	126.01	108.22	17.80	7.081	
2,600.00	2,586.81	2,588.91	2,578.17	9.27	9.28	91.69	24.72	-253.56	132.92	114.39	18.53	7.174	
2,700.00	2,686.07	2,688.67	2,677.08	9.63	9.64	92.06	26.10	-266.49	139.83	120.57	19.26	7.259	
2,800.00	2,785.32	2,788.43	2,775.99	10.00	10.01	92.39	27.48	-279.42	146.75	126.75	20.00	7.339	
2,900.00	2,884.57	2,888.18	2,874.89	10.37	10.38	92.70	28.86	-292.35	153.68	132.94	20.73	7.412	
3,000.00	2,983.83	2,987.94	2,973.80	10.74	10.75	92.98	30.23	-305.28	160.60	139.14	21.47	7.481	
3,100.00	3,083.08	3,087.70	3,072.70	11.11	11.12	93.23	31.61	-318.21	167.54	145.33	22.20	7.546	
3,200.00	3,182.34	3,187.46	3,171.61	11.47	11.48	93.46	32.99	-331.14	174.47	151.53	22.94	7.606	
3,300.00	3,281.59	3,287.21	3,270.51	11.84	11.85	93.68	34.37	-344.07	181.41	157.73	23.67	7.663	
3,400.00	3,380.84	3,386.97	3,369.42	12.21	12.22	93.88	35.75	-357.00	188.35	163.94	24.41	7.716	
3,500.00	3,480.10	3,486.73	3,468.33	12.58	12.59	94.07	37.12	-369.93	195.29	170.14	25.14	7.767	
3,600.00	3,579.35	3,586.48	3,567.23	12.95	12.96	94.24	38.50	-382.86	202.23	176.35	25.88	7.814	
3,700.00	3,678.60	3,686.24	3,666.14	13.32	13.33	94.40	39.88	-395.79	209.18	182.56	26.62	7.859	
3,800.00	3,777.86	3,786.00	3,765.04	13.69	13.70	94.56	41.26	-408.72	216.12	188.77	27.35	7.901	
3,900.00	3,877.11	3,885.75	3,863.95	14.05	14.06	94.70	42.64	-421.65	223.07	194.98	28.09	7.942	
4,000.00	3,976.36	3,985.51	3,962.85	14.42	14.43	94.83	44.01	-434.58	230.02	201.19	28.83	7.980	
4,100.00	4,075.62	4,085.27	4,061.76	14.79	14.80	94.96	45.39	-447.51	236.97	207.41	29.56	8.016	
4,200.00	4,174.87	4,185.02	4,160.67	15.16	15.17	95.07	46.77	-460.44	243.92	213.62	30.30	8.051	
4,300.00	4,274.12	4,284.78	4,259.57	15.53	15.54	95.19	48.15	-473.38	250.87	219.84	31.03	8.084	
4,400.00	4,373.38	4,384.54	4,358.48	15.90	15.91	95.29	49.53	-486.31	257.83	226.06	31.77	8.115	
4,500.00	4,472.63	4,484.29	4,457.38	16.27	16.28	95.39	50.90	-499.24	264.78	232.27	32.51	8.145	
4,600.00	4,571.89	4,584.05	4,556.29	16.64	16.65	95.49	52.28	-512.17	271.74	238.49	33.24	8.174	
4,700.00	4,671.14	4,683.81	4,655.19	17.01	17.02	95.58	53.66	-525.10	278.69	244.71	33.98	8.201	
4,800.00	4,770.39	4,783.56	4,754.10	17.38	17.38	95.66	55.04	-538.03	285.65	250.93	34.72	8.227	
4,900.00	4,869.65	4,883.32	4,853.01	17.75	17.75	95.75	56.42	-550.96	292.61	257.15	35.46	8.253	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Anaconda 11-14 Federal Com Pad - Anaconda 11-14 Federal Com 222H - 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
5,000.00	4,968.90	4,983.08	4,951.91	18.12	18.12	95.83	57.79	-563.89	299.56	263.37	36.19	8.277	
5,100.00	5,068.15	5,082.84	5,050.82	18.49	18.49	95.90	59.17	-576.82	306.52	269.59	36.93	8.300	
5,200.00	5,167.41	5,182.59	5,149.72	18.86	18.86	95.97	60.55	-589.75	313.48	275.81	37.67	8.322	
5,300.00	5,266.86	5,282.35	5,248.63	19.22	19.23	95.85	61.93	-602.68	320.25	281.85	38.40	8.339	
5,400.00	5,366.61	5,382.02	5,347.45	19.58	19.60	95.13	63.31	-615.60	326.71	287.57	39.14	8.348	
5,500.00	5,466.55	5,481.48	5,446.06	19.94	19.97	93.84	64.68	-628.49	332.99	293.13	39.86	8.353	
5,600.00	5,566.55	5,580.67	5,544.41	20.27	20.33	-23.74	66.05	-641.34	339.35	298.78	40.57	8.364	
5,700.00	5,666.55	5,679.82	5,642.71	20.60	20.70	-25.60	67.42	-654.20	346.06	304.78	41.28	8.383	
5,800.00	5,766.55	5,778.96	5,741.01	20.93	21.07	-27.39	68.79	-667.05	353.13	311.14	41.98	8.411	
5,900.00	5,866.55	5,878.11	5,839.31	21.27	21.43	-29.11	70.16	-679.90	360.52	317.83	42.69	8.445	
6,000.00	5,966.55	5,977.26	5,937.61	21.60	21.80	-30.76	71.53	-692.75	368.23	324.84	43.39	8.486	
6,100.00	6,066.55	6,076.41	6,035.91	21.93	22.17	-32.34	72.90	-705.60	376.23	332.14	44.10	8.532	
6,200.00	6,166.55	6,175.55	6,134.21	22.27	22.54	-33.86	74.27	-718.45	384.51	339.71	44.80	8.582	
6,300.00	6,266.55	6,274.70	6,232.51	22.60	22.90	-35.31	75.64	-731.30	393.05	347.54	45.51	8.637	
6,400.00	6,366.55	6,373.85	6,330.81	22.94	23.27	-36.69	77.01	-744.15	401.83	355.61	46.21	8.695	
6,500.00	6,466.55	6,472.99	6,429.11	23.27	23.64	-38.02	78.38	-757.00	410.83	363.91	46.92	8.756	
6,600.00	6,566.55	6,572.14	6,527.41	23.61	24.00	-39.29	79.75	-769.86	420.05	372.42	47.62	8.820	
6,700.00	6,666.55	6,671.29	6,625.71	23.95	24.37	-40.51	81.12	-782.71	429.46	381.13	48.33	8.886	
6,800.00	6,766.55	6,770.43	6,724.02	24.28	24.74	-41.67	82.48	-795.56	439.06	390.03	49.03	8.954	
6,900.00	6,866.55	6,869.58	6,822.32	24.62	25.11	-42.79	83.85	-808.41	448.83	399.09	49.74	9.024	
7,000.00	6,966.55	6,968.73	6,920.62	24.96	25.47	-43.86	85.22	-821.26	458.77	408.32	50.45	9.094	
7,100.00	7,066.55	7,067.87	7,018.92	25.30	25.84	-44.88	86.59	-834.11	468.85	417.70	51.15	9.166	
7,200.00	7,166.55	7,167.02	7,117.22	25.64	26.21	-45.86	87.96	-846.96	479.08	427.22	51.86	9.238	
7,300.00	7,266.55	7,266.17	7,215.52	25.98	26.58	-46.79	89.33	-859.81	489.44	436.88	52.56	9.311	
7,400.00	7,366.55	7,365.31	7,313.82	26.33	26.94	-47.69	90.70	-872.67	499.93	446.66	53.27	9.385	
7,500.00	7,466.55	7,464.46	7,412.12	26.67	27.31	-48.56	92.07	-885.52	510.53	456.56	53.98	9.458	
7,600.00	7,566.55	7,563.61	7,510.42	27.01	27.68	-49.38	93.44	-898.37	521.25	466.56	54.68	9.532	
7,700.00	7,666.55	7,662.75	7,608.72	27.35	28.04	-50.18	94.81	-911.22	532.07	476.68	55.39	9.605	
7,800.00	7,766.55	7,761.90	7,707.02	27.70	28.41	-50.94	96.18	-924.07	542.98	486.88	56.10	9.679	
7,900.00	7,866.55	7,861.05	7,805.32	28.04	28.78	-51.67	97.55	-936.92	553.99	497.18	56.81	9.752	
8,000.00	7,966.55	7,960.19	7,903.63	28.38	29.15	-52.37	98.92	-949.77	565.08	507.57	57.52	9.825	
8,100.00	8,066.55	8,059.34	8,001.93	28.73	29.51	-53.05	100.29	-962.62	576.26	518.03	58.22	9.897	
8,200.00	8,166.55	8,158.49	8,100.23	29.07	29.88	-53.70	101.66	-975.47	587.51	528.58	58.93	9.969	
8,300.00	8,266.55	8,257.63	8,198.53	29.42	30.25	-54.33	103.03	-988.33	598.84	539.19	59.64	10.040	
8,400.00	8,366.55	8,356.78	8,296.83	29.76	30.62	-54.93	104.40	-1,001.18	610.23	549.88	60.35	10.111	
8,500.00	8,466.55	8,455.93	8,395.13	30.11	30.98	-55.51	105.77	-1,014.03	621.68	560.62	61.06	10.181	
8,600.00	8,566.55	8,555.07	8,493.43	30.45	31.35	-56.07	107.14	-1,026.88	633.20	571.43	61.77	10.251	
8,700.00	8,666.55	8,654.22	8,591.73	30.80	31.72	-56.61	108.51	-1,039.73	644.78	582.30	62.48	10.319	
8,800.00	8,766.55	8,753.37	8,690.03	31.15	32.09	-57.13	109.88	-1,052.58	656.41	593.22	63.19	10.387	
8,900.00	8,866.55	8,852.52	8,788.33	31.49	32.45	-57.64	111.25	-1,065.43	668.09	604.19	63.90	10.455	
9,000.00	8,966.55	8,951.66	8,886.63	31.84	32.82	-58.12	112.62	-1,078.28	679.82	615.21	64.61	10.521	
9,100.00	9,066.55	9,050.81	8,984.94	32.19	33.19	-58.59	113.99	-1,091.13	691.60	626.27	65.33	10.587	
9,200.00	9,166.55	9,149.96	9,083.24	32.54	33.56	-59.04	115.36	-1,103.99	703.42	637.39	66.04	10.652	
9,300.00	9,266.55	9,249.10	9,181.54	32.88	33.92	-59.48	116.72	-1,116.84	715.29	648.54	66.75	10.716	
9,400.00	9,366.55	9,348.25	9,279.84	33.23	34.29	-59.91	118.09	-1,129.69	727.19	659.73	67.46	10.779	
9,500.00	9,466.55	9,447.40	9,378.14	33.58	34.66	-60.32	119.46	-1,142.54	739.13	670.96	68.17	10.842	
9,600.00	9,566.55	9,549.65	9,479.52	33.93	35.04	-60.73	120.87	-1,155.78	751.11	682.20	68.91	10.900	
9,700.00	9,666.55	9,747.62	9,676.52	34.28	35.73	-61.85	112.79	-1,171.75	756.24	686.46	69.78	10.837	
9,800.00	9,766.21	9,968.40	9,891.60	34.63	36.41	-57.01	67.30	-1,172.77	743.58	674.14	69.44	10.709	
9,900.00	9,863.22	10,120.78	10,023.56	34.96	36.80	-67.96	-7.99	-1,172.28	711.60	642.36	69.25	10.277	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Anaconda 11-14 Federal Com Pad - Anaconda 11-14 Federal Com 222H - 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
10,000.00	9,954.63	10,190.90	10,076.59	35.26	36.95	-76.91	-53.81	-1,171.98	676.80	606.51	70.29	9.628	
10,100.00	10,037.67	10,215.35	10,093.70	35.52	37.00	-81.87	-71.27	-1,171.87	649.21	577.56	71.65	9.061	
10,200.00	10,109.82	10,215.13	10,093.55	35.74	37.00	-83.44	-71.11	-1,171.87	633.48	560.92	72.56	8.731	
10,267.45	10,151.20	10,206.59	10,087.65	35.85	36.98	-82.97	-64.93	-1,171.91	630.43	557.65	72.78	8.663	
10,300.00	10,168.87	10,200.00	10,083.04	35.91	36.97	-82.32	-60.22	-1,171.94	631.13	558.35	72.77	8.673	
10,400.00	10,213.04	10,177.63	10,066.99	36.05	36.92	-79.37	-44.65	-1,172.04	641.43	569.01	72.41	8.858	
10,500.00	10,240.99	10,150.00	10,046.34	36.17	36.86	-75.05	-26.30	-1,172.16	662.20	590.39	71.81	9.222	
10,600.00	10,251.86	10,116.10	10,019.83	36.25	36.79	-69.73	-5.17	-1,172.30	690.51	619.29	71.22	9.696	
10,700.00	10,252.00	10,083.58	9,993.27	36.32	36.71	-67.10	13.59	-1,172.42	725.84	655.01	70.83	10.248	
10,800.00	10,252.00	10,050.00	9,964.77	36.41	36.63	-64.77	31.34	-1,172.54	770.44	699.96	70.48	10.931	
10,900.00	10,252.00	10,031.81	9,948.92	36.53	36.58	-63.51	40.26	-1,172.59	823.15	752.65	70.50	11.676	
11,000.00	10,252.00	10,000.00	9,920.54	36.66	36.50	-61.31	54.61	-1,172.69	883.07	812.77	70.30	12.562	
11,100.00	10,252.00	10,000.00	9,920.54	36.81	36.50	-61.31	54.61	-1,172.69	948.64	877.93	70.71	13.415	
11,200.00	10,252.00	9,977.08	9,899.62	36.97	36.44	-59.75	63.97	-1,172.75	1,019.15	948.43	70.72	14.411	
11,300.00	10,252.00	9,950.00	9,874.44	37.16	36.36	-57.93	73.94	-1,172.81	1,094.01	1,023.33	70.68	15.479	
11,400.00	10,252.00	9,950.00	9,874.44	37.35	36.36	-57.93	73.94	-1,172.81	1,171.82	1,100.79	71.03	16.498	
11,500.00	10,252.00	9,950.00	9,874.44	37.57	36.36	-57.93	73.94	-1,172.81	1,252.77	1,181.44	71.33	17.562	
11,600.00	10,252.00	9,929.28	9,854.88	37.80	36.30	-56.56	80.76	-1,172.86	1,335.80	1,264.44	71.36	18.720	
11,700.00	10,252.00	9,920.20	9,846.23	38.04	36.28	-55.97	83.53	-1,172.87	1,420.92	1,349.42	71.51	19.871	
11,800.00	10,252.00	9,900.00	9,826.84	38.30	36.22	-54.21	89.18	-1,172.91	1,507.91	1,436.38	71.53	21.081	
11,900.00	10,252.00	9,900.00	9,826.84	38.57	36.22	-51.86	89.18	-1,172.91	1,596.88	1,525.13	71.75	22.257	
12,000.00	10,252.00	9,900.00	9,826.84	38.85	36.22	-49.00	89.18	-1,172.91	1,688.20	1,616.27	71.94	23.467	
12,100.00	10,252.00	9,900.00	9,826.84	39.14	36.22	-45.50	89.18	-1,172.91	1,781.42	1,709.31	72.11	24.705	
12,200.00	10,252.00	9,900.00	9,826.84	39.44	36.22	-41.20	89.18	-1,172.91	1,876.14	1,803.87	72.26	25.963	
12,300.00	10,252.00	9,879.83	9,807.29	39.74	36.16	-36.65	94.14	-1,172.94	1,971.54	1,899.28	72.26	27.283	
12,400.00	10,252.00	9,874.81	9,802.40	40.05	36.14	-36.35	95.27	-1,172.95	2,067.67	1,995.31	72.36	28.574	
12,500.00	10,252.00	9,870.15	9,797.85	40.38	36.13	-36.07	96.28	-1,172.96	2,164.11	2,091.65	72.45	29.868	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Anaconda 11-14 Federal Com Pad - Anaconda 11-14 Federal Com 223H - 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	2.90	0.50	0.00	89.51	0.51	59.99	60.06				
100.00	100.00	97.10	100.00	0.57	0.27	89.51	0.51	59.99	59.99	59.16	0.83	72.003	
200.00	200.00	197.10	200.00	0.80	0.62	89.51	0.51	59.99	59.99	58.57	1.42	42.185	
300.00	300.00	297.10	300.00	1.10	0.98	89.51	0.51	59.99	59.99	57.91	2.08	28.799	
400.00	400.00	397.10	400.00	1.43	1.34	89.51	0.51	59.99	59.99	57.22	2.77	21.656	
500.00	500.00	497.10	500.00	1.77	1.70	89.51	0.51	59.99	59.99	56.52	3.47	17.294	
600.00	600.00	597.10	600.00	2.12	2.06	89.51	0.51	59.99	59.99	55.82	4.17	14.374	CC, ES
700.00	699.98	697.08	699.98	2.45	2.42	-155.39	0.51	59.99	61.57	56.70	4.87	12.643	
800.00	799.84	796.94	799.84	2.79	2.77	-157.23	0.51	59.99	66.37	60.81	5.56	11.931	
900.00	899.45	896.55	899.45	3.13	3.13	-159.77	0.51	59.99	74.48	68.22	6.26	11.896	SF
1,000.00	998.76	995.86	998.76	3.48	3.49	-162.46	0.51	59.99	85.62	78.65	6.96	12.294	
1,100.00	1,098.01	1,095.11	1,098.01	3.82	3.84	-164.62	0.51	59.99	97.32	89.66	7.67	12.696	
1,200.00	1,197.26	1,194.36	1,197.26	4.18	4.20	-166.32	0.51	59.99	109.14	100.77	8.37	13.038	
1,300.00	1,296.52	1,289.80	1,292.68	4.53	4.54	-167.66	0.89	61.35	122.49	113.44	9.05	13.530	
1,400.00	1,395.77	1,385.82	1,388.60	4.89	4.87	-168.77	2.06	65.55	138.93	129.20	9.73	14.277	
1,500.00	1,495.02	1,484.32	1,486.97	5.25	5.21	-169.67	3.42	70.45	156.02	145.59	10.43	14.964	
1,600.00	1,594.28	1,582.82	1,585.34	5.61	5.56	-170.39	4.78	75.35	173.14	162.02	11.13	15.563	
1,700.00	1,693.53	1,681.32	1,683.71	5.98	5.91	-170.99	6.14	80.25	190.29	178.46	11.83	16.090	
1,800.00	1,792.79	1,779.83	1,782.08	6.34	6.25	-171.48	7.50	85.15	207.45	194.92	12.53	16.557	
1,900.00	1,892.04	1,878.33	1,880.45	6.70	6.60	-171.90	8.86	90.04	224.62	211.39	13.23	16.973	
2,000.00	1,991.29	1,976.83	1,978.83	7.07	6.95	-172.26	10.22	94.94	241.81	227.87	13.94	17.346	
2,100.00	2,090.55	2,075.33	2,077.20	7.43	7.30	-172.57	11.58	99.84	259.00	244.35	14.65	17.682	
2,200.00	2,189.80	2,173.83	2,175.57	7.80	7.65	-172.84	12.95	104.74	276.20	260.84	15.36	17.986	
2,300.00	2,289.05	2,272.33	2,273.94	8.17	8.00	-173.08	14.31	109.64	293.40	277.34	16.07	18.262	
2,400.00	2,388.31	2,370.84	2,372.31	8.53	8.35	-173.30	15.67	114.54	310.61	293.83	16.78	18.514	
2,500.00	2,487.56	2,469.34	2,470.68	8.90	8.70	-173.49	17.03	119.43	327.82	310.34	17.49	18.746	
2,600.00	2,586.81	2,567.84	2,569.05	9.27	9.05	-173.66	18.39	124.33	345.04	326.84	18.20	18.958	
2,700.00	2,686.07	2,666.34	2,667.42	9.63	9.41	-173.82	19.75	129.23	362.26	343.35	18.91	19.155	
2,800.00	2,785.32	2,764.84	2,765.79	10.00	9.76	-173.96	21.11	134.13	379.48	359.85	19.63	19.336	
2,900.00	2,884.57	2,863.35	2,864.16	10.37	10.11	-174.09	22.47	139.03	396.70	376.36	20.34	19.505	
3,000.00	2,983.83	2,961.85	2,962.53	10.74	10.46	-174.21	23.84	143.93	413.93	392.87	21.05	19.662	
3,100.00	3,083.08	3,060.35	3,060.90	11.11	10.81	-174.32	25.20	148.82	431.15	409.39	21.77	19.808	
3,200.00	3,182.34	3,158.85	3,159.27	11.47	11.17	-174.42	26.56	153.72	448.38	425.90	22.48	19.945	
3,300.00	3,281.59	3,257.35	3,257.64	11.84	11.52	-174.51	27.92	158.62	465.61	442.41	23.20	20.073	
3,400.00	3,380.84	3,355.86	3,356.01	12.21	11.87	-174.60	29.28	163.52	482.84	458.93	23.91	20.193	
3,500.00	3,480.10	3,454.36	3,454.38	12.58	12.23	-174.68	30.64	168.42	500.07	475.44	24.63	20.306	
3,600.00	3,579.35	3,552.86	3,552.76	12.95	12.58	-174.76	32.00	173.32	517.30	491.96	25.34	20.413	
3,700.00	3,678.60	3,651.36	3,651.13	13.32	12.93	-174.83	33.36	178.21	534.53	508.48	26.06	20.513	
3,800.00	3,777.86	3,749.86	3,749.50	13.69	13.29	-174.89	34.73	183.11	551.77	524.99	26.77	20.608	
3,900.00	3,877.11	3,848.37	3,847.87	14.05	13.64	-174.96	36.09	188.01	569.00	541.51	27.49	20.698	
4,000.00	3,976.36	3,946.87	3,946.24	14.42	13.99	-175.01	37.45	192.91	586.24	558.03	28.21	20.783	
4,100.00	4,075.62	4,045.37	4,044.61	14.79	14.35	-175.07	38.81	197.81	603.47	574.55	28.92	20.864	
4,200.00	4,174.87	4,143.87	4,142.98	15.16	14.70	-175.12	40.17	202.70	620.71	591.07	29.64	20.941	
4,300.00	4,274.12	4,242.37	4,241.35	15.53	15.05	-175.17	41.53	207.60	637.94	607.59	30.36	21.014	
4,400.00	4,373.38	4,340.87	4,339.72	15.90	15.41	-175.22	42.89	212.50	655.18	624.11	31.07	21.084	
4,500.00	4,472.63	4,439.38	4,438.09	16.27	15.76	-175.26	44.25	217.40	672.42	640.63	31.79	21.151	
4,600.00	4,571.89	4,537.88	4,536.46	16.64	16.12	-175.30	45.62	222.30	689.66	657.15	32.51	21.214	
4,700.00	4,671.14	4,636.38	4,634.83	17.01	16.47	-175.34	46.98	227.20	706.89	673.67	33.23	21.275	
4,800.00	4,770.39	4,734.88	4,733.20	17.38	16.82	-175.38	48.34	232.09	724.13	690.19	33.94	21.333	
4,900.00	4,869.65	4,833.38	4,831.57	17.75	17.18	-175.42	49.70	236.99	741.37	706.71	34.66	21.388	
5,000.00	4,968.90	4,931.89	4,929.94	18.12	17.53	-175.45	51.06	241.89	758.61	723.23	35.38	21.442	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Anaconda 11-14 Federal Com Pad - Anaconda 11-14 Federal Com 223H - 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
5,100.00	5,068.15	5,030.39	5,028.31	18.49	17.89	-175.49	52.42	246.79	775.85	739.75	36.10	21.493	
5,200.00	5,167.41	5,128.89	5,126.69	18.86	18.24	-175.52	53.78	251.69	793.09	756.27	36.82	21.542	
5,300.00	5,266.86	5,227.68	5,225.35	19.22	18.60	-175.56	55.15	256.60	808.55	771.01	37.53	21.542	
5,400.00	5,366.61	5,326.95	5,324.48	19.58	18.95	-175.58	56.52	261.54	820.56	782.31	38.25	21.454	
5,500.00	5,466.55	5,426.58	5,423.98	19.94	19.31	-175.58	57.90	266.49	829.11	790.15	38.96	21.282	
5,600.00	5,566.55	5,526.42	5,523.69	20.27	19.67	68.67	59.28	271.46	834.66	795.00	39.65	21.050	
5,700.00	5,666.55	5,626.29	5,623.42	20.60	20.03	68.71	60.66	276.42	839.79	799.45	40.34	20.818	
5,800.00	5,766.55	5,726.16	5,723.16	20.93	20.39	68.74	62.04	281.39	844.93	803.90	41.03	20.593	
5,900.00	5,866.55	5,826.02	5,822.89	21.27	20.75	68.78	63.42	286.35	850.06	808.34	41.72	20.376	
6,000.00	5,966.55	5,925.89	5,922.62	21.60	21.11	68.81	64.80	291.32	855.20	812.79	42.41	20.165	
6,100.00	6,066.55	6,025.76	6,022.36	21.93	21.47	68.84	66.18	296.29	860.33	817.23	43.10	19.960	
6,200.00	6,166.55	6,125.63	6,122.09	22.27	21.83	68.88	67.56	301.25	865.47	821.67	43.80	19.761	
6,300.00	6,266.55	6,225.49	6,221.83	22.60	22.19	68.91	68.94	306.22	870.61	826.12	44.49	19.569	
6,400.00	6,366.55	6,325.36	6,321.56	22.94	22.55	68.94	70.32	311.19	875.74	830.56	45.18	19.382	
6,500.00	6,466.55	6,425.23	6,421.29	23.27	22.91	68.98	71.70	316.15	880.88	835.00	45.88	19.200	
6,600.00	6,566.55	6,525.09	6,521.03	23.61	23.26	69.01	73.08	321.12	886.02	839.44	46.58	19.023	
6,700.00	6,666.55	6,624.96	6,620.76	23.95	23.62	69.04	74.46	326.08	891.16	843.89	47.27	18.852	
6,800.00	6,766.55	6,724.83	6,720.49	24.28	23.98	69.07	75.84	331.05	896.30	848.33	47.97	18.685	
6,900.00	6,866.55	6,824.69	6,820.23	24.62	24.34	69.10	77.22	336.02	901.43	852.77	48.67	18.522	
7,000.00	6,966.55	6,924.56	6,919.96	24.96	24.70	69.13	78.60	340.98	906.57	857.21	49.37	18.364	
7,100.00	7,066.55	7,024.43	7,019.69	25.30	25.06	69.16	79.98	345.95	911.71	861.65	50.06	18.211	
7,200.00	7,166.55	7,124.29	7,119.43	25.64	25.42	69.19	81.36	350.91	916.85	866.09	50.76	18.061	
7,300.00	7,266.55	7,224.16	7,219.16	25.98	25.78	69.22	82.74	355.88	921.99	870.53	51.46	17.915	
7,400.00	7,366.55	7,324.03	7,318.90	26.33	26.14	69.25	84.12	360.85	927.13	874.97	52.17	17.773	
7,500.00	7,466.55	7,423.89	7,418.63	26.67	26.50	69.28	85.50	365.81	932.27	879.40	52.87	17.635	
7,600.00	7,566.55	7,523.76	7,518.36	27.01	26.86	69.31	86.88	370.78	937.41	883.84	53.57	17.500	
7,700.00	7,666.55	7,623.63	7,618.10	27.35	27.22	69.34	88.26	375.75	942.55	888.28	54.27	17.368	
7,800.00	7,766.55	7,723.49	7,717.83	27.70	27.58	69.36	89.64	380.71	947.69	892.72	54.97	17.240	
7,900.00	7,866.55	7,823.36	7,817.56	28.04	27.94	69.39	91.02	385.68	952.83	897.16	55.67	17.114	
8,000.00	7,966.55	7,923.23	7,917.30	28.38	28.30	69.42	92.40	390.64	957.97	901.60	56.38	16.992	
8,100.00	8,066.55	8,023.09	8,017.03	28.73	28.66	69.45	93.78	395.61	963.12	906.03	57.08	16.873	
8,200.00	8,166.55	8,122.96	8,116.76	29.07	29.02	69.47	95.16	400.58	968.26	910.47	57.78	16.756	
8,300.00	8,266.55	8,222.83	8,216.50	29.42	29.38	69.50	96.54	405.54	973.40	914.91	58.49	16.642	
8,400.00	8,366.55	8,322.69	8,316.23	29.76	29.74	69.52	97.92	410.51	978.54	919.35	59.19	16.531	
8,500.00	8,466.55	8,422.56	8,415.96	30.11	30.10	69.55	99.30	415.47	983.68	923.78	59.90	16.423	
8,600.00	8,566.55	8,522.43	8,515.70	30.45	30.46	69.58	100.68	420.44	988.83	928.22	60.60	16.316	
8,700.00	8,666.55	8,622.29	8,615.43	30.80	30.82	69.60	102.06	425.41	993.97	932.66	61.31	16.212	
8,800.00	8,766.55	8,722.16	8,715.17	31.15	31.18	69.63	103.44	430.37	999.11	937.10	62.01	16.111	
8,900.00	8,866.55	8,822.03	8,814.90	31.49	31.54	69.65	104.82	435.34	1,004.25	941.53	62.72	16.012	
9,000.00	8,966.55	8,921.89	8,914.63	31.84	31.90	69.68	106.20	440.31	1,009.40	945.97	63.43	15.914	
9,100.00	9,066.55	9,021.76	9,014.37	32.19	32.26	69.70	107.58	445.27	1,014.54	950.41	64.13	15.819	
9,200.00	9,166.55	9,121.63	9,114.10	32.54	32.62	69.72	108.96	450.24	1,019.68	954.84	64.84	15.726	
9,300.00	9,266.55	9,221.49	9,213.83	32.88	32.98	69.75	110.34	455.20	1,024.83	959.28	65.55	15.635	
9,400.00	9,366.55	9,321.36	9,313.57	33.23	33.34	69.77	111.72	460.17	1,029.97	963.72	66.26	15.546	
9,500.00	9,466.55	9,421.23	9,413.30	33.58	33.70	69.80	113.10	465.14	1,035.12	968.15	66.96	15.458	
9,600.00	9,566.55	9,521.09	9,513.03	33.93	34.06	69.82	114.48	470.10	1,040.26	972.59	67.67	15.372	
9,700.00	9,666.55	9,638.37	9,630.16	34.28	34.48	69.85	115.88	475.76	1,045.31	976.83	68.48	15.264	
9,800.00	9,766.21	9,883.37	9,871.91	34.63	35.28	82.86	84.54	477.67	1,040.53	971.06	69.47	14.978	
9,900.00	9,863.22	10,044.24	10,015.32	34.96	35.74	89.99	12.84	478.13	1,025.44	955.45	69.99	14.651	
10,000.00	9,954.63	10,121.28	10,075.60	35.26	35.93	95.09	-35.03	478.44	1,012.66	941.97	70.68	14.327	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Anaconda 11-14 Federal Com Pad - Anaconda 11-14 Federal Com 223H - 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
10,080.23	10,022.05	10,146.92	10,094.17	35.47	35.99	96.86	-52.71	478.55	1,009.03	937.84	71.19	14.174	
10,100.00	10,037.67	10,150.02	10,096.36	35.52	35.99	97.01	-54.91	478.57	1,009.26	937.97	71.29	14.157	
10,200.00	10,109.82	10,152.49	10,098.10	35.74	36.00	96.32	-56.67	478.58	1,017.55	945.95	71.60	14.212	
10,300.00	10,168.87	10,139.88	10,089.15	35.91	35.97	93.61	-47.78	478.52	1,037.22	965.62	71.60	14.487	
10,400.00	10,213.04	10,118.00	10,073.17	36.05	35.92	89.35	-32.84	478.42	1,066.57	995.19	71.38	14.942	
10,500.00	10,240.99	10,090.10	10,051.98	36.17	35.85	83.99	-14.68	478.31	1,103.23	1,032.16	71.07	15.523	
10,600.00	10,251.86	10,050.00	10,020.05	36.25	35.75	77.67	9.55	478.15	1,144.67	1,073.97	70.69	16.193	
10,700.00	10,252.00	10,026.12	10,000.25	36.32	35.69	76.06	22.89	478.06	1,189.79	1,119.25	70.54	16.866	
10,800.00	10,252.00	10,000.00	9,977.98	36.41	35.62	74.92	36.54	477.98	1,240.09	1,169.70	70.39	17.617	
10,900.00	10,252.00	9,975.41	9,956.46	36.53	35.55	73.82	48.44	477.90	1,295.20	1,224.93	70.27	18.432	
11,000.00	10,252.00	9,950.00	9,933.71	36.66	35.48	72.68	59.76	477.83	1,354.74	1,284.59	70.15	19.311	
11,100.00	10,252.00	9,950.00	9,933.71	36.81	35.48	72.68	59.76	477.83	1,418.36	1,348.03	70.33	20.168	
11,200.00	10,252.00	9,921.94	9,908.04	36.97	35.40	71.41	71.07	477.75	1,485.30	1,415.10	70.20	21.157	
11,300.00	10,252.00	9,900.00	9,887.60	37.16	35.33	70.41	79.03	477.70	1,555.63	1,485.47	70.15	22.174	
11,400.00	10,252.00	9,900.00	9,887.60	37.35	35.33	70.41	79.03	477.70	1,628.68	1,558.35	70.33	23.158	
11,500.00	10,252.00	9,900.00	9,887.60	37.57	35.33	70.41	79.03	477.70	1,704.46	1,633.97	70.49	24.180	
11,600.00	10,252.00	9,875.32	9,864.25	37.80	35.26	69.28	87.05	477.65	1,782.09	1,711.67	70.43	25.304	
11,700.00	10,252.00	9,850.00	9,839.97	38.04	35.18	68.13	94.22	477.60	1,862.13	1,791.77	70.36	26.465	
11,800.00	10,252.00	9,850.00	9,839.97	38.30	35.18	68.37	94.22	477.60	1,943.44	1,872.93	70.51	27.561	
11,900.00	10,252.00	9,850.00	9,839.97	38.57	35.18	69.39	94.22	477.60	2,025.16	1,954.51	70.65	28.665	
12,000.00	10,252.00	9,850.00	9,839.97	38.85	35.18	70.35	94.22	477.60	2,106.64	2,035.87	70.77	29.766	
12,100.00	10,252.00	9,850.00	9,839.97	39.14	35.18	71.27	94.22	477.60	2,187.81	2,116.93	70.89	30.864	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) ANACONDA 11 14 3BS FEDERAL COM 007H - OH - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

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	9.80	0.00	0.50	0.50	-142.09	-461.53	-359.39	584.95				
100.00	100.00	109.30	99.50	0.57	0.58	-142.06	-461.40	-359.65	585.01	583.86	1.15	509.798	
200.00	200.00	209.76	199.96	0.80	0.83	-141.99	-460.95	-360.27	585.04	583.41	1.62	360.051	
300.00	300.00	308.10	298.29	1.10	1.13	-141.90	-460.49	-361.12	585.20	582.97	2.23	262.623	
400.00	400.00	409.25	399.44	1.43	1.46	-141.83	-460.07	-361.67	585.21	582.32	2.89	202.482	
500.00	500.00	509.11	499.29	1.77	1.80	-141.74	-459.66	-362.51	585.40	581.83	3.57	163.943	
600.00	600.00	608.52	598.70	2.12	2.15	-141.63	-459.16	-363.55	585.66	581.40	4.26	137.430	
700.00	699.98	707.58	697.75	2.45	2.49	-25.84	-458.81	-364.52	584.42	579.48	4.95	118.160	
800.00	799.84	808.12	798.28	2.79	2.85	-25.99	-458.33	-365.58	579.99	574.35	5.63	102.931	
900.00	899.45	910.53	900.69	3.13	3.21	-26.36	-457.69	-366.21	572.05	565.71	6.34	90.262	
1,000.00	998.76	1,011.61	1,001.77	3.48	3.56	-26.85	-456.76	-366.79	561.15	554.10	7.04	79.693	
1,100.00	1,098.01	1,115.94	1,106.08	3.82	3.93	-27.34	-455.40	-367.06	549.40	541.65	7.75	70.868	
1,200.00	1,197.26	1,219.64	1,209.76	4.18	4.29	-27.87	-453.30	-366.63	536.72	528.26	8.46	63.438	
1,300.00	1,296.52	1,322.44	1,312.51	4.53	4.65	-28.35	-450.19	-366.18	523.27	514.10	9.17	57.073	
1,400.00	1,395.77	1,423.80	1,413.80	4.89	5.01	-28.78	-446.22	-365.91	509.23	499.35	9.88	51.562	
1,500.00	1,495.02	1,524.63	1,514.52	5.25	5.36	-29.17	-441.64	-365.83	494.82	484.24	10.58	46.750	
1,600.00	1,594.28	1,622.84	1,612.62	5.61	5.71	-29.55	-436.98	-365.82	480.31	469.02	11.29	42.548	
1,700.00	1,693.53	1,718.85	1,708.53	5.98	6.05	-29.95	-432.76	-366.00	466.22	454.23	11.99	38.886	
1,800.00	1,792.79	1,817.99	1,807.60	6.34	6.40	-30.39	-428.74	-366.32	452.50	439.80	12.70	35.630	
1,900.00	1,892.04	1,922.45	1,911.95	6.70	6.78	-30.93	-423.94	-365.92	437.98	424.56	13.42	32.631	
2,000.00	1,991.29	2,020.90	2,010.27	7.07	7.13	-31.52	-419.18	-365.01	423.01	408.88	14.13	29.935	
2,100.00	2,090.55	2,118.03	2,107.30	7.43	7.48	-32.16	-414.72	-364.18	408.33	393.49	14.84	27.518	
2,200.00	2,189.80	2,214.49	2,203.67	7.80	7.82	-32.84	-410.75	-363.58	394.22	378.68	15.55	25.358	
2,300.00	2,289.05	2,311.09	2,300.22	8.17	8.17	-33.59	-407.36	-363.18	380.80	364.54	16.26	23.425	
2,400.00	2,388.31	2,409.07	2,398.15	8.53	8.51	-34.45	-404.52	-362.76	367.96	350.99	16.97	21.685	
2,500.00	2,487.56	2,508.04	2,497.08	8.90	8.87	-35.43	-401.77	-362.13	355.22	337.54	17.68	20.088	
2,600.00	2,586.81	2,606.67	2,595.68	9.27	9.22	-36.48	-399.17	-361.54	342.73	324.33	18.40	18.629	
2,700.00	2,686.07	2,704.88	2,693.85	9.63	9.57	-37.66	-396.81	-360.69	330.45	311.34	19.11	17.291	
2,800.00	2,785.32	2,802.49	2,791.44	10.00	9.92	-38.92	-394.82	-360.03	318.72	298.90	19.83	16.077	
2,900.00	2,884.57	2,901.82	2,890.75	10.37	10.27	-40.33	-393.09	-359.35	307.44	286.90	20.54	14.966	
3,000.00	2,983.83	3,000.56	2,989.47	10.74	10.62	-41.84	-391.25	-358.53	296.18	274.92	21.26	13.932	
3,100.00	3,083.08	3,099.24	3,088.14	11.11	10.97	-43.44	-389.57	-357.93	285.37	263.40	21.98	12.985	
3,200.00	3,182.34	3,197.81	3,186.69	11.47	11.32	-45.22	-388.08	-357.14	274.92	252.23	22.69	12.114	
3,300.00	3,281.59	3,296.14	3,285.01	11.84	11.67	-47.08	-386.75	-356.63	265.00	241.58	23.41	11.318	
3,400.00	3,380.84	3,394.45	3,383.31	12.21	12.02	-49.08	-385.72	-356.19	255.68	231.55	24.13	10.595	
3,500.00	3,480.10	3,492.65	3,481.51	12.58	12.36	-51.30	-385.14	-355.51	247.09	222.24	24.85	9.944	
3,600.00	3,579.35	3,591.55	3,580.41	12.95	12.71	-53.61	-384.68	-355.22	239.10	213.53	25.57	9.351	
3,700.00	3,678.60	3,690.12	3,678.98	13.32	13.05	-56.06	-384.47	-354.95	231.78	205.50	26.29	8.818	
3,800.00	3,777.86	3,790.00	3,778.86	13.69	13.41	-58.66	-384.12	-354.82	224.81	197.80	27.01	8.324	
3,900.00	3,877.11	3,888.72	3,877.57	14.05	13.75	-61.31	-383.81	-355.02	218.37	190.64	27.73	7.875	
4,000.00	3,976.36	3,987.89	3,976.74	14.42	14.10	-64.11	-383.62	-355.23	212.56	184.11	28.45	7.471	
4,100.00	4,075.62	4,087.12	4,075.98	14.79	14.45	-67.23	-383.42	-354.85	207.30	178.13	29.17	7.106	
4,200.00	4,174.87	4,186.66	4,175.49	15.16	14.79	-71.02	-383.10	-352.65	202.79	172.90	29.90	6.783	
4,300.00	4,274.12	4,288.25	4,277.07	15.53	15.15	-74.60	-382.18	-352.08	198.35	167.72	30.63	6.476	
4,400.00	4,373.38	4,388.54	4,377.33	15.90	15.51	-77.76	-380.45	-353.55	193.41	162.05	31.36	6.168	
4,500.00	4,472.63	4,487.46	4,476.23	16.27	15.86	-80.98	-378.89	-355.14	189.19	157.11	32.09	5.897	
4,600.00	4,571.89	4,586.81	4,575.55	16.64	16.21	-84.29	-377.46	-356.90	185.68	152.86	32.81	5.658	
4,700.00	4,671.14	4,684.92	4,673.64	17.01	16.56	-87.71	-376.18	-358.42	183.03	149.49	33.54	5.457	
4,800.00	4,770.39	4,783.61	4,772.32	17.38	16.90	-91.27	-375.48	-359.54	181.78	147.51	34.26	5.305	
4,883.09	4,852.86	4,865.81	4,854.52	17.69	17.19	-94.29	-374.97	-360.32	181.44	146.57	34.87	5.204	CC
4,900.00	4,869.65	4,882.53	4,871.24	17.75	17.25	-94.91	-374.88	-360.46	181.45	146.46	34.99	5.186	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) ANACONDA 11 14 3BS FEDERAL COM 007H - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **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
5,000.00	4,968.90	4,981.36	4,970.06	18.12	17.60	-98.61	-374.37	-361.06	182.13	146.41	35.71	5.100	ES
5,100.00	5,068.15	5,079.70	5,068.41	18.49	17.95	-102.31	-374.02	-361.26	183.96	147.53	36.44	5.049	
5,200.00	5,167.41	5,178.89	5,167.60	18.86	18.30	-105.95	-373.94	-361.32	186.85	149.69	37.16	5.028	
5,300.00	5,266.86	5,279.21	5,267.91	19.22	18.66	-109.06	-373.63	-361.49	189.66	151.77	37.89	5.006	
5,400.00	5,366.61	5,378.34	5,367.04	19.58	19.01	-111.05	-373.33	-361.70	191.67	153.07	38.60	4.966	
5,500.00	5,466.55	5,478.79	5,467.49	19.94	19.36	-111.94	-373.35	-362.12	192.64	153.33	39.31	4.901	
5,600.00	5,566.55	5,578.00	5,566.70	20.27	19.71	132.21	-373.03	-362.65	192.18	152.20	39.99	4.806	
5,615.32	5,581.87	5,593.18	5,581.87	20.33	19.77	132.20	-372.98	-362.65	192.14	152.05	40.09	4.793	
5,700.00	5,666.55	5,672.00	5,660.66	20.60	20.04	131.64	-372.31	-360.62	193.30	152.70	40.60	4.761	SF
5,800.00	5,766.55	5,767.00	5,755.44	20.93	20.37	130.17	-371.07	-354.37	197.43	156.24	41.20	4.793	
5,900.00	5,866.55	5,861.00	5,848.99	21.27	20.69	128.25	-369.82	-345.27	204.14	162.39	41.74	4.890	
6,000.00	5,966.55	5,955.00	5,942.11	21.60	21.02	125.94	-368.95	-332.55	214.40	172.14	42.27	5.073	
6,100.00	6,066.55	6,051.86	6,037.76	21.93	21.36	123.56	-368.45	-317.29	227.10	184.24	42.85	5.299	
6,200.00	6,166.55	6,147.48	6,132.08	22.27	21.69	121.31	-367.63	-301.61	240.54	197.14	43.41	5.542	
6,300.00	6,266.55	6,237.00	6,219.96	22.60	22.01	119.16	-366.89	-284.59	256.65	212.88	43.77	5.864	
6,400.00	6,366.55	6,321.56	6,302.28	22.94	22.31	117.29	-367.56	-265.35	277.21	233.28	43.94	6.309	
6,500.00	6,466.55	6,418.19	6,395.79	23.27	22.66	115.49	-369.74	-241.05	300.84	256.29	44.55	6.753	
6,600.00	6,566.55	6,522.85	6,497.41	23.61	23.04	113.86	-371.68	-216.10	323.37	277.93	45.43	7.117	
6,700.00	6,666.55	6,612.00	6,583.90	23.95	23.38	112.58	-373.02	-194.54	346.24	300.41	45.82	7.556	
6,800.00	6,766.55	6,710.28	6,679.00	24.28	23.75	111.25	-374.26	-169.77	370.18	323.67	46.51	7.960	
6,900.00	6,866.55	6,812.28	6,777.97	24.62	24.14	110.06	-375.37	-145.11	393.25	345.96	47.30	8.315	
7,000.00	6,966.55	6,913.99	6,876.97	24.96	24.53	109.14	-376.86	-121.85	415.33	367.26	48.07	8.640	
7,100.00	7,066.55	7,013.76	6,974.36	25.30	24.91	108.39	-378.51	-100.26	436.38	387.59	48.79	8.944	
7,200.00	7,166.55	7,106.75	7,064.91	25.64	25.27	107.65	-379.44	-79.15	458.30	408.96	49.35	9.287	
7,300.00	7,266.55	7,208.77	7,164.33	25.98	25.67	106.84	-379.79	-56.26	479.87	429.75	50.12	9.574	
7,400.00	7,366.55	7,301.60	7,254.77	26.33	26.04	106.08	-379.28	-35.32	501.41	450.72	50.69	9.893	
7,500.00	7,466.55	7,390.22	7,340.66	26.67	26.40	105.29	-378.25	-13.53	524.82	473.67	51.16	10.259	
7,600.00	7,566.55	7,494.23	7,441.41	27.01	26.83	104.38	-376.57	12.25	548.46	496.47	51.98	10.551	
7,700.00	7,666.55	7,594.47	7,538.93	27.35	27.24	103.62	-374.81	35.38	570.46	517.75	52.72	10.821	
7,800.00	7,766.55	7,693.96	7,635.65	27.70	27.64	103.13	-375.40	58.65	593.40	539.96	53.44	11.104	
7,900.00	7,866.55	7,792.56	7,731.92	28.04	28.04	102.72	-375.96	79.96	614.60	560.46	54.14	11.351	
8,000.00	7,966.55	7,883.68	7,820.59	28.38	28.42	102.44	-377.54	100.87	637.37	582.66	54.71	11.651	
8,100.00	8,066.55	7,993.37	7,927.47	28.73	28.87	102.11	-379.15	125.48	659.65	604.03	55.62	11.860	
8,200.00	8,166.55	8,083.99	8,016.00	29.07	29.25	101.81	-379.76	144.84	680.74	624.56	56.18	12.117	
8,300.00	8,266.55	8,175.85	8,105.29	29.42	29.63	101.38	-379.09	166.40	703.60	646.83	56.77	12.394	
8,400.00	8,366.55	8,289.40	8,215.88	29.76	30.11	100.90	-378.18	192.12	725.74	668.00	57.74	12.570	
8,500.00	8,466.55	8,380.26	8,304.59	30.11	30.49	100.51	-376.90	211.71	746.72	688.41	58.32	12.805	
8,600.00	8,566.55	8,487.49	8,409.21	30.45	30.94	100.07	-375.43	235.19	768.07	708.91	59.16	12.982	
8,700.00	8,666.55	8,566.87	8,486.62	30.80	31.28	99.77	-374.45	252.71	789.64	730.08	59.56	13.258	
8,800.00	8,766.55	8,697.78	8,614.52	31.15	31.84	99.27	-372.18	280.47	810.27	749.50	60.77	13.334	
8,900.00	8,866.55	8,773.00	8,688.06	31.49	32.15	99.01	-370.97	296.19	830.60	769.47	61.13	13.588	
9,000.00	8,966.55	8,848.93	8,761.89	31.84	32.48	98.80	-370.64	313.90	853.55	792.06	61.49	13.882	
9,100.00	9,066.55	8,976.02	8,885.70	32.19	33.03	98.54	-371.23	342.52	875.91	813.27	62.64	13.983	
9,200.00	9,166.55	9,056.00	8,963.67	32.54	33.37	98.46	-372.55	360.26	897.99	834.91	63.08	14.236	
9,300.00	9,266.55	9,129.03	9,034.48	32.88	33.69	98.39	-374.19	378.05	922.28	858.88	63.40	14.547	
9,400.00	9,366.55	9,229.94	9,132.10	33.23	34.14	98.23	-375.41	403.58	947.51	883.35	64.17	14.767	
9,500.00	9,466.55	9,326.75	9,225.86	33.58	34.58	98.02	-375.39	427.70	972.19	907.32	64.87	14.988	
9,600.00	9,566.55	9,451.47	9,347.18	33.93	35.13	97.77	-375.14	456.58	994.97	929.00	65.97	15.082	
9,700.00	9,666.55	9,527.00	9,420.48	34.28	35.47	97.65	-375.43	474.76	1,018.71	952.34	66.37	15.350	
9,800.00	9,766.21	9,602.52	9,493.40	34.63	35.81	105.43	-376.07	494.42	1,046.34	979.58	66.76	15.672	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) ANACONDA 11 14 3BS FEDERAL COM 007H - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,863.22	9,721.15	9,608.19	34.96	36.35	103.64	-377.30	524.30	1,078.00	1,010.16	67.84	15.890	
10,000.00	9,954.63	9,799.28	9,683.99	35.26	36.70	101.62	-378.40	543.22	1,113.33	1,044.94	68.39	16.279	
10,100.00	10,037.67	9,885.88	9,768.03	35.52	37.09	99.85	-379.90	564.07	1,153.53	1,084.39	69.14	16.684	
10,200.00	10,109.82	9,950.74	9,831.03	35.74	37.39	97.21	-380.62	579.45	1,198.59	1,128.90	69.69	17.199	
10,300.00	10,168.87	9,996.00	9,874.94	35.91	37.59	93.27	-380.70	590.44	1,249.12	1,179.04	70.09	17.822	
10,400.00	10,213.04	10,035.53	9,913.23	36.05	37.77	88.45	-380.53	600.25	1,304.64	1,234.12	70.52	18.499	
10,500.00	10,240.99	10,056.46	9,933.48	36.17	37.87	82.14	-380.36	605.54	1,364.18	1,293.35	70.83	19.259	
10,600.00	10,251.86	10,062.75	9,939.56	36.25	37.90	74.71	-380.31	607.14	1,426.24	1,355.17	71.07	20.068	
10,700.00	10,252.00	10,059.72	9,936.63	36.32	37.88	73.59	-380.33	606.37	1,490.57	1,419.31	71.26	20.917	
10,800.00	10,252.00	10,056.52	9,933.54	36.41	37.87	73.43	-380.36	605.56	1,558.64	1,487.19	71.45	21.815	
10,900.00	10,252.00	10,053.28	9,930.40	36.53	37.85	73.26	-380.39	604.73	1,629.99	1,558.37	71.63	22.756	
11,000.00	10,252.00	10,049.98	9,927.21	36.66	37.84	73.09	-380.42	603.90	1,704.22	1,632.43	71.80	23.736	
11,100.00	10,252.00	10,046.64	9,923.98	36.81	37.82	72.92	-380.45	603.05	1,780.97	1,709.01	71.96	24.750	
11,200.00	10,252.00	10,043.24	9,920.69	36.97	37.81	72.75	-380.47	602.19	1,859.92	1,787.81	72.11	25.793	
11,300.00	10,252.00	10,039.79	9,917.35	37.16	37.79	72.57	-380.50	601.32	1,940.81	1,868.56	72.25	26.863	
11,400.00	10,252.00	10,036.29	9,913.96	37.35	37.78	72.39	-380.52	600.44	2,023.40	1,951.02	72.38	27.956	
11,500.00	10,252.00	10,032.72	9,910.51	37.57	37.76	72.21	-380.55	599.55	2,107.49	2,034.99	72.50	29.069	
11,600.00	10,252.00	10,029.11	9,907.01	37.80	37.74	72.02	-380.57	598.64	2,192.91	2,120.30	72.61	30.201	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) ANACONDA 11 14 3BS FEDERAL COM 013H - OH - Surveys

Offset Site Error: 0.00 usft

Survey Program: 26-MWD OWSG Rev5

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	8.00	0.00	0.50	0.50	-139.86	-461.69	-389.39	603.97				
100.00	100.00	108.81	100.81	0.57	2.37	-139.87	-461.72	-389.27	603.92	600.98	2.93	205.801	
200.00	200.00	208.00	200.00	0.80	3.53	-139.90	-461.82	-388.91	603.77	599.44	4.32	139.603	
227.77	227.77	235.77	227.77	0.88	3.56	-139.91	-461.86	-388.85	603.75	599.32	4.43	136.218	
300.00	300.00	307.55	299.55	1.10	3.64	-139.91	-461.93	-388.84	603.80	599.08	4.73	127.764	
400.00	400.00	408.37	400.37	1.43	3.74	-139.92	-461.99	-388.80	603.82	598.67	5.15	117.176	
500.00	500.00	508.39	500.39	1.77	3.85	-139.94	-462.08	-388.51	603.71	598.12	5.59	107.975	
511.60	511.60	519.60	511.60	1.81	3.86	-139.95	-462.09	-388.50	603.71	598.06	5.64	107.008	
600.00	600.00	607.12	599.12	2.12	3.96	-139.98	-462.41	-388.31	603.83	597.80	6.03	100.090	
700.00	699.98	707.53	699.52	2.45	4.16	-24.35	-462.97	-387.82	602.35	595.82	6.53	92.209	
800.00	799.84	808.40	800.39	2.79	4.33	-24.67	-463.45	-387.29	597.62	590.62	7.00	85.381	
900.00	899.45	910.30	902.29	3.13	4.54	-25.16	-463.63	-386.62	589.43	581.92	7.51	78.475	
1,000.00	998.76	1,009.29	1,001.27	3.48	4.75	-25.79	-463.79	-385.54	578.24	570.22	8.02	72.110	
1,100.00	1,098.01	1,109.47	1,101.45	3.82	4.95	-26.40	-463.88	-384.79	566.88	558.36	8.52	66.504	
1,200.00	1,197.26	1,211.33	1,203.30	4.18	5.15	-27.05	-463.62	-383.68	555.11	546.07	9.04	61.431	
1,300.00	1,296.52	1,306.94	1,298.91	4.53	5.29	-27.64	-463.08	-382.93	543.35	533.82	9.53	57.008	
1,400.00	1,395.77	1,400.24	1,392.21	4.89	5.35	-28.19	-463.14	-383.21	532.77	522.81	9.96	53.488	
1,500.00	1,495.02	1,502.85	1,494.82	5.25	5.49	-28.90	-463.80	-383.00	522.44	512.03	10.41	50.174	
1,600.00	1,594.28	1,608.54	1,600.49	5.61	5.71	-29.82	-464.42	-381.11	511.26	500.35	10.91	46.878	
1,700.00	1,693.53	1,710.57	1,702.46	5.98	5.95	-30.87	-464.75	-377.78	499.15	487.74	11.41	43.744	
1,800.00	1,792.79	1,811.63	1,803.44	6.34	6.19	-32.03	-464.96	-373.77	486.75	474.83	11.91	40.856	
1,900.00	1,892.04	1,910.39	1,902.11	6.70	6.44	-33.25	-465.10	-369.54	474.32	461.90	12.42	38.197	
2,000.00	1,991.29	2,011.19	2,002.80	7.07	6.71	-34.60	-465.17	-364.80	461.85	448.93	12.92	35.742	
2,100.00	2,090.55	2,110.84	2,102.32	7.43	6.98	-36.04	-465.12	-359.82	449.40	435.98	13.43	33.474	
2,200.00	2,189.80	2,214.32	2,205.64	7.80	7.26	-37.64	-464.43	-354.15	436.48	422.55	13.93	31.330	
2,300.00	2,289.05	2,316.28	2,307.41	8.17	7.54	-39.29	-462.77	-348.23	422.89	408.45	14.44	29.289	
2,400.00	2,388.31	2,417.99	2,408.94	8.53	7.81	-40.96	-460.13	-342.66	408.92	393.97	14.95	27.356	
2,500.00	2,487.56	2,520.03	2,510.74	8.90	8.08	-42.78	-456.65	-336.47	394.32	378.87	15.46	25.510	
2,600.00	2,586.81	2,621.99	2,612.34	9.27	8.37	-44.90	-452.69	-329.00	379.26	363.29	15.97	23.756	
2,700.00	2,686.07	2,720.29	2,710.22	9.63	8.66	-47.18	-448.21	-321.16	363.89	347.42	16.47	22.090	
2,800.00	2,785.32	2,816.80	2,806.35	10.00	8.95	-49.61	-444.14	-313.50	349.46	332.49	16.97	20.592	
2,900.00	2,884.57	2,914.79	2,903.95	10.37	9.25	-52.27	-440.14	-305.81	335.90	318.43	17.47	19.229	
3,000.00	2,983.83	3,014.47	3,003.22	10.74	9.57	-55.21	-435.78	-297.85	322.81	304.85	17.96	17.977	
3,100.00	3,083.08	3,113.66	3,101.94	11.11	9.89	-58.40	-430.86	-289.67	310.02	291.58	18.44	16.813	
3,200.00	3,182.34	3,209.98	3,197.88	11.47	10.18	-61.59	-425.94	-282.56	298.15	279.23	18.92	15.756	
3,300.00	3,281.59	3,306.75	3,294.36	11.84	10.48	-64.80	-421.45	-276.63	287.80	268.39	19.40	14.832	
3,400.00	3,380.84	3,404.27	3,391.63	12.21	10.74	-68.17	-417.22	-271.01	278.73	258.89	19.84	14.048	
3,500.00	3,480.10	3,497.70	3,484.90	12.58	11.04	-71.37	-414.13	-266.64	271.60	251.27	20.33	13.362	
3,600.00	3,579.35	3,592.11	3,579.28	12.95	11.20	-74.14	-413.08	-264.73	267.13	246.29	20.84	12.815	
3,700.00	3,678.60	3,692.84	3,680.00	13.32	11.30	-76.61	-413.02	-265.19	263.89	242.41	21.48	12.285	
3,800.00	3,777.86	3,794.09	3,781.24	13.69	11.39	-78.96	-412.40	-266.69	260.34	238.21	22.13	11.764	
3,900.00	3,877.11	3,892.92	3,880.06	14.05	11.44	-81.30	-411.60	-268.32	257.00	234.25	22.75	11.299	
4,000.00	3,976.36	3,991.63	3,978.75	14.42	11.51	-83.78	-410.87	-269.46	254.34	230.98	23.36	10.888	
4,100.00	4,075.62	4,090.08	4,077.20	14.79	11.62	-86.39	-410.31	-270.17	252.49	228.52	23.98	10.531	
4,200.00	4,174.87	4,188.32	4,175.44	15.16	11.76	-89.08	-409.96	-270.47	251.55	226.96	24.60	10.227	
4,236.91	4,211.51	4,224.43	4,211.55	15.30	11.84	-90.08	-409.92	-270.48	251.47	226.64	24.84	10.125	
4,300.00	4,274.12	4,286.13	4,273.25	15.53	11.97	-91.82	-409.96	-270.35	251.71	226.46	25.25	9.969	
4,400.00	4,373.38	4,384.70	4,371.82	15.90	12.16	-94.61	-410.34	-269.82	252.99	227.12	25.87	9.779	
4,500.00	4,472.63	4,484.58	4,471.70	16.27	12.37	-97.41	-410.56	-269.31	254.73	228.25	26.49	9.618	
4,600.00	4,571.89	4,584.00	4,571.11	16.64	12.67	-100.19	-410.59	-268.79	256.95	229.75	27.20	9.446	
4,700.00	4,671.14	4,683.74	4,670.85	17.01	12.90	-102.94	-410.50	-268.27	259.65	231.81	27.84	9.326	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) ANACONDA 11 14 3BS FEDERAL COM 013H - OH - Surveys

Offset Site Error: 0.00 usft

Survey Program: 26-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,770.39	4,782.77	4,769.88	17.38	13.06	-105.57	-410.35	-268.00	262.74	234.34	28.40	9.251	
4,900.00	4,869.65	4,881.13	4,868.24	17.75	13.20	-108.13	-410.39	-267.50	266.68	237.69	28.99	9.199	
5,000.00	4,968.90	4,980.26	4,967.37	18.12	13.31	-110.54	-410.88	-267.16	271.33	241.73	29.60	9.166	
5,100.00	5,068.15	5,080.35	5,067.46	18.49	13.42	-112.89	-411.27	-266.92	276.32	246.10	30.22	9.145	
5,200.00	5,167.41	5,179.40	5,166.51	18.86	13.50	-115.14	-411.51	-266.82	281.55	250.74	30.81	9.138	
5,300.00	5,266.86	5,278.29	5,265.40	19.22	13.56	-117.01	-412.10	-266.76	286.56	255.17	31.38	9.130	
5,400.00	5,366.61	5,377.76	5,364.86	19.58	13.63	-118.20	-412.79	-266.58	290.34	258.41	31.93	9.093	
5,500.00	5,466.55	5,477.50	5,464.60	19.94	13.79	-118.69	-413.73	-266.47	292.61	260.05	32.56	8.987	
5,600.00	5,566.55	5,577.48	5,564.57	20.27	13.96	125.57	-414.64	-266.26	293.51	260.37	33.13	8.858	
5,700.00	5,666.55	5,681.83	5,668.91	20.60	13.94	125.88	-415.92	-267.21	293.49	259.96	33.53	8.753	
5,800.00	5,766.55	5,786.27	5,773.27	20.93	13.81	126.59	-417.75	-270.83	291.71	257.91	33.81	8.628	
5,900.00	5,866.55	5,885.81	5,872.71	21.27	13.68	127.38	-419.63	-275.03	289.48	255.41	34.07	8.497	
6,000.00	5,966.55	5,985.21	5,972.00	21.60	13.55	128.22	-421.76	-279.18	287.49	253.15	34.34	8.372	
6,100.00	6,066.55	6,085.04	6,071.72	21.93	13.43	129.05	-423.86	-283.22	285.64	251.03	34.61	8.253	
6,200.00	6,166.55	6,184.99	6,171.57	22.27	13.31	129.86	-425.82	-287.14	283.86	248.96	34.90	8.133	
6,300.00	6,266.55	6,284.70	6,271.20	22.60	13.21	130.60	-427.50	-290.82	282.12	246.93	35.20	8.015	
6,400.00	6,366.55	6,383.80	6,370.22	22.94	13.12	131.37	-429.39	-294.43	280.62	245.12	35.50	7.904	
6,500.00	6,466.55	6,483.80	6,470.13	23.27	13.03	132.17	-431.47	-297.94	279.40	243.58	35.82	7.800	
6,600.00	6,566.55	6,584.05	6,570.31	23.61	12.95	132.89	-433.15	-301.29	278.06	241.92	36.14	7.694	
6,700.00	6,666.55	6,683.93	6,670.13	23.95	12.88	133.59	-434.70	-304.58	276.73	240.27	36.46	7.589	
6,800.00	6,766.55	6,783.50	6,769.63	24.28	12.82	134.31	-436.36	-307.85	275.52	238.72	36.79	7.488	
6,900.00	6,866.55	6,882.95	6,868.99	24.62	12.77	135.14	-438.49	-311.37	274.51	237.37	37.14	7.392	
7,000.00	6,966.55	6,982.54	6,968.48	24.96	12.73	136.09	-441.09	-315.16	273.71	236.22	37.49	7.302	
7,100.00	7,066.55	7,081.38	7,067.23	25.30	12.71	136.97	-443.66	-318.53	273.26	235.41	37.85	7.220	
7,200.00	7,166.55	7,182.21	7,168.00	25.64	12.70	137.71	-445.78	-321.36	272.89	234.68	38.22	7.141	
7,300.00	7,266.55	7,283.66	7,269.39	25.98	12.69	138.35	-447.17	-324.22	272.03	233.46	38.58	7.052	
7,400.00	7,366.55	7,383.51	7,369.20	26.33	12.67	138.95	-448.32	-326.98	271.07	232.14	38.93	6.963	
7,500.00	7,466.55	7,483.90	7,469.55	26.67	12.66	139.53	-449.30	-329.80	269.97	230.69	39.28	6.873	
7,600.00	7,566.55	7,583.74	7,569.34	27.01	12.66	140.15	-450.37	-332.68	268.93	229.29	39.64	6.785	
7,700.00	7,666.55	7,684.58	7,670.14	27.35	12.66	140.72	-451.19	-335.46	267.80	227.81	39.99	6.696	
7,800.00	7,766.55	7,785.03	7,770.54	27.70	12.66	141.30	-451.72	-338.53	266.28	225.94	40.35	6.600	
7,900.00	7,866.55	7,884.68	7,870.15	28.04	12.66	141.83	-452.15	-341.34	264.87	224.17	40.70	6.508	
8,000.00	7,966.55	7,985.50	7,970.92	28.38	12.68	142.43	-452.69	-344.40	263.43	222.38	41.06	6.416	
8,100.00	8,066.55	8,086.08	8,071.44	28.73	12.69	143.08	-453.06	-347.89	261.62	220.21	41.41	6.317	
8,200.00	8,166.55	8,186.38	8,171.67	29.07	12.72	143.76	-453.35	-351.51	259.71	217.93	41.77	6.217	
8,300.00	8,266.55	8,287.47	8,272.70	29.42	12.74	144.42	-453.33	-355.19	257.55	215.42	42.13	6.114	
8,400.00	8,366.55	8,388.30	8,373.47	29.76	12.76	144.96	-452.62	-358.65	255.00	212.52	42.48	6.003	
8,500.00	8,466.55	8,494.11	8,479.16	30.11	12.78	145.52	-450.63	-363.02	251.09	208.27	42.82	5.864	
8,600.00	8,566.55	8,596.95	8,581.81	30.45	12.79	146.09	-447.28	-368.30	245.51	202.36	43.15	5.689	
8,700.00	8,666.55	8,699.43	8,683.98	30.80	12.82	146.94	-443.32	-375.21	238.56	195.05	43.51	5.483	
8,800.00	8,766.55	8,800.37	8,784.42	31.15	12.88	148.56	-440.67	-384.73	231.29	187.41	43.88	5.271	
8,900.00	8,866.55	8,903.63	8,886.97	31.49	12.93	150.67	-437.26	-396.38	222.71	178.46	44.24	5.034	
9,000.00	8,966.55	9,003.99	8,986.65	31.84	12.99	152.46	-432.17	-406.84	213.25	168.63	44.62	4.779	
9,100.00	9,066.55	9,104.93	9,086.98	32.19	13.04	153.95	-426.02	-416.00	203.72	158.71	45.00	4.527	
9,200.00	9,166.55	9,203.69	9,184.97	32.54	13.14	156.04	-420.05	-426.72	193.62	148.19	45.42	4.262	
9,300.00	9,266.55	9,298.56	9,278.99	32.88	13.24	159.08	-416.64	-438.96	185.33	139.45	45.89	4.039	
9,400.00	9,366.55	9,394.76	9,374.43	33.23	13.35	162.50	-415.37	-450.95	179.94	133.61	46.33	3.884	
9,500.00	9,466.55	9,492.16	9,471.16	33.58	13.48	165.99	-415.08	-462.29	176.46	129.69	46.77	3.773	
9,600.00	9,566.55	9,591.59	9,569.94	33.93	13.62	169.64	-415.35	-473.67	174.30	127.09	47.21	3.692	
9,700.00	9,666.55	9,691.63	9,669.20	34.28	13.78	173.72	-415.42	-486.12	172.56	124.91	47.65	3.621	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) ANACONDA 11 14 3BS FEDERAL COM 013H - OH - Surveys

Offset Site Error: 0.00 usft

Survey Program: 26-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,709.81	9,676.35	9,701.44	9,678.93	34.31	13.79	-175.87	-415.41	-487.36	172.48	124.79	47.70	3.616	CC, ES, SF
9,800.00	9,766.21	9,791.29	9,768.04	34.63	13.95	-172.28	-415.10	-498.85	177.91	129.81	48.10	3.699	
9,900.00	9,863.22	9,886.01	9,861.95	34.96	14.12	-169.15	-415.09	-511.21	201.13	152.59	48.54	4.144	
10,000.00	9,954.63	9,978.75	9,953.97	35.26	14.30	-167.14	-415.40	-522.76	241.10	192.18	48.92	4.928	
10,100.00	10,037.67	10,063.92	10,038.50	35.52	14.47	-165.77	-415.17	-533.17	295.52	246.27	49.25	6.001	
10,200.00	10,109.82	10,138.97	10,112.87	35.74	14.63	-164.17	-414.58	-543.26	362.92	313.41	49.51	7.330	
10,300.00	10,168.87	10,201.13	10,174.44	35.91	14.76	-161.83	-413.87	-551.80	441.53	391.81	49.71	8.882	
10,400.00	10,213.04	10,248.31	10,221.16	36.05	14.86	-157.43	-413.29	-558.31	529.28	479.43	49.85	10.618	
10,500.00	10,240.99	10,277.34	10,249.91	36.17	14.93	-146.42	-412.94	-562.33	623.68	573.76	49.92	12.492	
10,600.00	10,251.86	10,288.84	10,261.29	36.25	14.95	-105.99	-412.86	-563.95	721.97	672.02	49.96	14.452	
10,700.00	10,252.00	10,291.33	10,263.76	36.32	14.96	-97.64	-412.84	-564.30	821.31	771.35	49.96	16.438	
10,800.00	10,252.00	10,293.61	10,266.02	36.41	14.96	-99.05	-412.83	-564.63	920.79	870.81	49.97	18.425	
10,900.00	10,252.00	10,295.80	10,268.18	36.53	14.97	-100.38	-412.83	-564.94	1,020.36	970.38	49.98	20.413	
11,000.00	10,252.00	10,297.88	10,270.24	36.66	14.97	-101.63	-412.82	-565.24	1,120.00	1,070.01	50.00	22.402	
11,100.00	10,252.00	10,299.88	10,272.22	36.81	14.98	-102.81	-412.82	-565.52	1,219.70	1,169.69	50.01	24.390	
11,200.00	10,252.00	10,301.80	10,274.12	36.97	14.98	-103.93	-412.81	-565.80	1,319.44	1,269.42	50.02	26.377	
11,300.00	10,252.00	10,303.64	10,275.94	37.16	14.98	-104.99	-412.81	-566.06	1,419.21	1,369.18	50.04	28.363	
11,400.00	10,252.00	10,305.41	10,277.69	37.35	14.99	-105.98	-412.81	-566.32	1,519.01	1,468.96	50.05	30.348	
11,500.00	10,252.00	10,307.11	10,279.38	37.57	14.99	-106.93	-412.81	-566.57	1,618.83	1,568.77	50.07	32.332	
11,600.00	10,252.00	10,308.75	10,281.00	37.80	15.00	-107.82	-412.81	-566.80	1,718.67	1,668.59	50.09	34.314	
11,700.00	10,252.00	10,310.32	10,282.55	38.04	15.00	-108.67	-412.81	-567.03	1,818.53	1,768.43	50.10	36.295	
11,800.00	10,252.00	10,311.83	10,284.05	38.30	15.00	-112.96	-412.82	-567.25	1,918.40	1,868.28	50.12	38.273	
11,900.00	10,252.00	10,313.07	10,285.27	38.57	15.00	-167.85	-412.82	-567.43	2,018.36	1,968.22	50.14	40.252	
12,000.00	10,252.00	10,313.95	10,286.14	38.85	15.01	117.75	-412.82	-567.56	2,118.33	2,068.17	50.16	42.228	
12,100.00	10,252.00	10,314.49	10,286.67	39.14	15.01	103.87	-412.82	-567.64	2,218.20	2,168.02	50.18	44.201	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) GEM 8705 JV-P 001 - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,400.00	10,252.00	10,253.73	10,252.00	40.05	235.59	-90.00	4,264.44	-902.07	2,177.43	1,905.43	272.00	8.005	
12,500.00	10,252.00	10,253.73	10,252.00	40.38	235.59	-90.00	4,264.44	-902.07	2,077.45	1,805.43	272.02	7.637	
12,600.00	10,252.00	10,253.73	10,252.00	40.71	235.59	-90.00	4,264.44	-902.07	1,977.47	1,705.43	272.04	7.269	
12,700.00	10,252.00	10,253.73	10,252.00	41.06	235.59	-90.00	4,264.44	-902.07	1,877.49	1,605.43	272.06	6.901	
12,800.00	10,252.00	10,253.73	10,252.00	41.42	235.59	-90.00	4,264.44	-902.07	1,777.52	1,505.43	272.09	6.533	
12,900.00	10,252.00	10,253.73	10,252.00	41.79	235.59	-90.00	4,264.44	-902.07	1,677.55	1,405.44	272.11	6.165	
13,000.00	10,252.00	10,253.73	10,252.00	42.17	235.59	-90.00	4,264.44	-902.07	1,577.58	1,305.45	272.13	5.797	
13,100.00	10,252.00	10,253.73	10,252.00	42.56	235.59	-90.00	4,264.44	-902.07	1,477.62	1,205.46	272.16	5.429	
13,200.00	10,252.00	10,253.73	10,252.00	42.97	235.59	-90.00	4,264.44	-902.07	1,377.66	1,105.48	272.18	5.062	
13,300.00	10,252.00	10,253.73	10,252.00	43.38	235.59	-90.00	4,264.44	-902.07	1,277.71	1,005.50	272.21	4.694	
13,400.00	10,252.00	10,253.73	10,252.00	43.80	235.59	-90.00	4,264.44	-902.07	1,177.77	905.54	272.23	4.326	
13,500.00	10,252.00	10,253.73	10,252.00	44.23	235.59	-90.00	4,264.44	-902.07	1,077.84	805.58	272.26	3.959	
13,600.00	10,252.00	10,253.73	10,252.00	44.67	235.59	-90.00	4,264.44	-902.07	977.92	705.64	272.28	3.592	
13,700.00	10,252.00	10,253.73	10,252.00	45.12	235.59	-90.00	4,264.44	-902.07	878.02	605.72	272.30	3.224	
13,800.00	10,252.00	10,253.73	10,252.00	45.57	235.59	-90.00	4,264.44	-902.07	778.15	505.82	272.32	2.857	
13,900.00	10,252.00	10,253.73	10,252.00	46.04	235.59	-90.00	4,264.44	-902.07	678.31	405.97	272.34	2.491	
14,000.00	10,252.00	10,253.73	10,252.00	46.51	235.59	-90.00	4,264.44	-902.07	578.53	306.17	272.36	2.124	
14,100.00	10,252.00	10,253.73	10,252.00	46.99	235.59	-90.00	4,264.44	-902.07	478.84	206.47	272.38	1.758	
14,200.00	10,252.00	10,253.73	10,252.00	47.48	235.59	-90.00	4,264.44	-902.07	379.32	106.93	272.39	1.393	Level 3
14,300.00	10,252.00	10,253.73	10,252.00	47.98	235.59	-90.00	4,264.44	-902.07	280.14	7.71	272.42	1.028	Level 2
14,400.00	10,252.00	10,253.73	10,252.00	48.48	235.59	-90.00	4,264.44	-902.07	181.85	-90.74	272.59	0.667	Level 1
14,500.00	10,252.00	10,253.73	10,252.00	48.99	235.59	-90.00	4,264.44	-902.07	87.54	-186.71	274.25	0.319	Level 1
14,577.04	10,252.00	10,253.73	10,252.00	49.39	235.59	-90.00	4,264.44	-902.07	41.58	-243.21	284.80	0.146	Level 1, CC, ES, SF
14,600.00	10,252.00	10,253.73	10,252.00	49.50	235.59	-90.00	4,264.44	-902.07	47.51	-236.09	283.59	0.168	Level 1
14,700.00	10,252.00	10,253.73	10,252.00	50.03	235.59	-90.00	4,264.44	-902.07	129.81	-145.60	275.40	0.471	Level 1
14,800.00	10,252.00	10,253.73	10,252.00	50.56	235.59	-90.00	4,264.44	-902.07	226.81	-47.26	274.07	0.828	Level 1
14,900.00	10,252.00	10,253.73	10,252.00	51.09	235.59	-90.00	4,264.44	-902.07	325.63	51.95	273.68	1.190	Level 2
15,000.00	10,252.00	10,253.73	10,252.00	51.63	235.59	-90.00	4,264.44	-902.07	425.01	151.48	273.52	1.554	
15,100.00	10,252.00	10,253.73	10,252.00	52.18	235.59	-90.00	4,264.44	-902.07	524.62	251.16	273.46	1.918	
15,200.00	10,252.00	10,253.73	10,252.00	52.73	235.59	-90.00	4,264.44	-902.07	624.35	350.92	273.43	2.283	
15,300.00	10,252.00	10,253.73	10,252.00	53.29	235.59	-90.00	4,264.44	-902.07	724.16	450.73	273.43	2.648	
15,400.00	10,252.00	10,253.73	10,252.00	53.85	235.59	-90.00	4,264.44	-902.07	824.02	550.57	273.45	3.013	
15,500.00	10,252.00	10,253.73	10,252.00	54.42	235.59	-90.00	4,264.44	-902.07	923.90	650.43	273.47	3.378	
15,600.00	10,252.00	10,253.73	10,252.00	54.99	235.59	-90.00	4,264.44	-902.07	1,023.81	750.31	273.50	3.743	
15,700.00	10,252.00	10,253.73	10,252.00	55.57	235.59	-90.00	4,264.44	-902.07	1,123.74	850.20	273.54	4.108	
15,800.00	10,252.00	10,253.73	10,252.00	56.15	235.59	-90.00	4,264.44	-902.07	1,223.67	950.09	273.58	4.473	
15,900.00	10,252.00	10,253.73	10,252.00	56.74	235.59	-90.00	4,264.44	-902.07	1,323.62	1,050.00	273.62	4.837	
16,000.00	10,252.00	10,253.73	10,252.00	57.33	235.59	-90.00	4,264.44	-902.07	1,423.57	1,149.90	273.67	5.202	
16,100.00	10,252.00	10,253.73	10,252.00	57.92	235.59	-90.00	4,264.44	-902.07	1,523.53	1,249.81	273.72	5.566	
16,200.00	10,252.00	10,253.73	10,252.00	58.52	235.59	-90.00	4,264.44	-902.07	1,623.50	1,349.73	273.77	5.930	
16,300.00	10,252.00	10,253.73	10,252.00	59.12	235.59	-90.00	4,264.44	-902.07	1,723.47	1,449.64	273.83	6.294	
16,400.00	10,252.00	10,253.73	10,252.00	59.73	235.59	-90.00	4,264.44	-902.07	1,823.44	1,549.56	273.88	6.658	
16,500.00	10,252.00	10,253.73	10,252.00	60.34	235.59	-90.00	4,264.44	-902.07	1,923.42	1,649.48	273.94	7.021	
16,600.00	10,252.00	10,253.73	10,252.00	60.95	235.59	-90.00	4,264.44	-902.07	2,023.39	1,749.40	273.99	7.385	
16,700.00	10,252.00	10,253.73	10,252.00	61.57	235.59	-90.00	4,264.44	-902.07	2,123.37	1,849.32	274.05	7.748	
16,800.00	10,252.00	10,253.73	10,252.00	62.19	235.59	-90.00	4,264.44	-902.07	2,223.36	1,949.24	274.11	8.111	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) GEM 8705 JV-P 002 - P&A - OH - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.00	10,252.00	10,255.19	10,252.00	40.71	201.91	-90.00	4,257.96	-1,886.54	2,225.54	1,987.06	238.48	9.332	
12,700.00	10,252.00	10,255.19	10,252.00	41.06	201.91	-90.00	4,257.96	-1,886.54	2,137.30	1,898.70	238.60	8.958	
12,800.00	10,252.00	10,255.19	10,252.00	41.42	201.91	-90.00	4,257.96	-1,886.54	2,050.14	1,811.39	238.75	8.587	
12,900.00	10,252.00	10,255.19	10,252.00	41.79	201.91	-90.00	4,257.96	-1,886.54	1,964.21	1,725.27	238.93	8.221	
13,000.00	10,252.00	10,255.19	10,252.00	42.17	201.91	-90.00	4,257.96	-1,886.54	1,879.66	1,640.51	239.15	7.860	
13,100.00	10,252.00	10,255.19	10,252.00	42.56	201.91	-90.00	4,257.96	-1,886.54	1,796.71	1,557.30	239.40	7.505	
13,200.00	10,252.00	10,255.19	10,252.00	42.97	201.91	-90.00	4,257.96	-1,886.54	1,715.57	1,475.86	239.71	7.157	
13,300.00	10,252.00	10,255.19	10,252.00	43.38	201.91	-90.00	4,257.96	-1,886.54	1,636.52	1,396.44	240.08	6.817	
13,400.00	10,252.00	10,255.19	10,252.00	43.80	201.91	-90.00	4,257.96	-1,886.54	1,559.88	1,319.37	240.51	6.486	
13,500.00	10,252.00	10,255.19	10,252.00	44.23	201.91	-90.00	4,257.96	-1,886.54	1,486.01	1,244.99	241.02	6.166	
13,600.00	10,252.00	10,255.19	10,252.00	44.67	201.91	-90.00	4,257.96	-1,886.54	1,415.36	1,173.75	241.62	5.858	
13,700.00	10,252.00	10,255.19	10,252.00	45.12	201.91	-90.00	4,257.96	-1,886.54	1,348.43	1,106.12	242.31	5.565	
13,800.00	10,252.00	10,255.19	10,252.00	45.57	201.91	-90.00	4,257.96	-1,886.54	1,285.81	1,042.69	243.11	5.289	
13,900.00	10,252.00	10,255.19	10,252.00	46.04	201.91	-90.00	4,257.96	-1,886.54	1,228.14	984.12	244.02	5.033	
14,000.00	10,252.00	10,255.19	10,252.00	46.51	201.91	-90.00	4,257.96	-1,886.54	1,176.15	931.13	245.02	4.800	
14,100.00	10,252.00	10,255.19	10,252.00	46.99	201.91	-90.00	4,257.96	-1,886.54	1,130.64	884.54	246.10	4.594	
14,200.00	10,252.00	10,255.19	10,252.00	47.48	201.91	-90.00	4,257.96	-1,886.54	1,092.42	845.18	247.24	4.419	
14,300.00	10,252.00	10,255.19	10,252.00	47.98	201.91	-90.00	4,257.96	-1,886.54	1,062.26	813.89	248.38	4.277	
14,400.00	10,252.00	10,255.19	10,252.00	48.48	201.91	-90.00	4,257.96	-1,886.54	1,040.87	791.40	249.47	4.172	
14,500.00	10,252.00	10,255.19	10,252.00	48.99	201.91	-90.00	4,257.96	-1,886.54	1,028.81	778.34	250.46	4.108	
14,574.90	10,252.00	10,255.19	10,252.00	49.37	201.91	-90.00	4,257.96	-1,886.54	1,026.08	774.97	251.10	4.086	CC, ES
14,600.00	10,252.00	10,255.19	10,252.00	49.50	201.91	-90.00	4,257.96	-1,886.54	1,026.38	775.09	251.29	4.084	SF
14,700.00	10,252.00	10,255.19	10,252.00	50.03	201.91	-90.00	4,257.96	-1,886.54	1,033.67	781.74	251.93	4.103	
14,800.00	10,252.00	10,255.19	10,252.00	50.56	201.91	-90.00	4,257.96	-1,886.54	1,050.48	798.12	252.36	4.163	
14,900.00	10,252.00	10,255.19	10,252.00	51.09	201.91	-90.00	4,257.96	-1,886.54	1,076.35	823.77	252.58	4.261	
15,000.00	10,252.00	10,255.19	10,252.00	51.63	201.91	-90.00	4,257.96	-1,886.54	1,110.65	858.04	252.61	4.397	
15,100.00	10,252.00	10,255.19	10,252.00	52.18	201.91	-90.00	4,257.96	-1,886.54	1,152.63	900.14	252.49	4.565	
15,200.00	10,252.00	10,255.19	10,252.00	52.73	201.91	-90.00	4,257.96	-1,886.54	1,201.49	949.24	252.25	4.763	
15,300.00	10,252.00	10,255.19	10,252.00	53.29	201.91	-90.00	4,257.96	-1,886.54	1,256.43	1,004.50	251.93	4.987	
15,400.00	10,252.00	10,255.19	10,252.00	53.85	201.91	-90.00	4,257.96	-1,886.54	1,316.67	1,065.12	251.55	5.234	
15,500.00	10,252.00	10,255.19	10,252.00	54.42	201.91	-90.00	4,257.96	-1,886.54	1,381.54	1,130.39	251.15	5.501	
15,600.00	10,252.00	10,255.19	10,252.00	54.99	201.91	-90.00	4,257.96	-1,886.54	1,450.40	1,199.67	250.73	5.785	
15,700.00	10,252.00	10,255.19	10,252.00	55.57	201.91	-90.00	4,257.96	-1,886.54	1,522.72	1,272.40	250.32	6.083	
15,800.00	10,252.00	10,255.19	10,252.00	56.15	201.91	-90.00	4,257.96	-1,886.54	1,598.03	1,348.11	249.93	6.394	
15,900.00	10,252.00	10,255.19	10,252.00	56.74	201.91	-90.00	4,257.96	-1,886.54	1,675.93	1,426.38	249.55	6.716	
16,000.00	10,252.00	10,255.19	10,252.00	57.33	201.91	-90.00	4,257.96	-1,886.54	1,756.06	1,506.87	249.19	7.047	
16,100.00	10,252.00	10,255.19	10,252.00	57.92	201.91	-90.00	4,257.96	-1,886.54	1,838.14	1,589.28	248.86	7.386	
16,200.00	10,252.00	10,255.19	10,252.00	58.52	201.91	-90.00	4,257.96	-1,886.54	1,921.92	1,673.37	248.55	7.732	
16,300.00	10,252.00	10,255.19	10,252.00	59.12	201.91	-90.00	4,257.96	-1,886.54	2,007.19	1,758.92	248.27	8.085	
16,400.00	10,252.00	10,255.19	10,252.00	59.73	201.91	-90.00	4,257.96	-1,886.54	2,093.76	1,845.75	248.01	8.442	
16,500.00	10,252.00	10,255.19	10,252.00	60.34	201.91	-90.00	4,257.96	-1,886.54	2,181.48	1,933.70	247.78	8.804	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) GEM 8705 JV-P 003 - INJ - OH - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

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	13.90	0.50	0.00	-70.02	316.01	-868.94	924.72				
100.00	100.00	86.10	100.00	0.57	1.47	-70.02	316.01	-868.94	924.62	922.58	2.04	453.435	
200.00	200.00	186.10	200.00	0.80	3.19	-70.02	316.01	-868.94	924.62	920.64	3.98	232.088	
300.00	300.00	286.10	300.00	1.10	4.90	-70.02	316.01	-868.94	924.62	918.62	6.00	154.145	
400.00	400.00	386.10	400.00	1.43	6.61	-70.02	316.01	-868.94	924.62	916.58	8.04	115.017	
500.00	500.00	486.10	500.00	1.77	8.36	-70.02	316.01	-868.94	924.62	914.49	10.13	91.242	
600.00	600.00	586.10	600.00	2.12	10.14	-70.02	316.01	-868.94	924.62	912.37	12.25	75.469	
700.00	699.98	686.46	700.36	2.45	11.91	45.87	316.14	-868.94	923.45	909.08	14.37	64.273	
800.00	799.84	785.94	799.84	2.79	13.69	46.15	316.01	-868.94	919.76	903.28	16.48	55.805	
900.00	899.45	885.56	899.45	3.13	15.55	46.63	316.01	-868.94	913.74	895.06	18.68	48.911	
1,000.00	998.76	985.18	999.07	3.48	17.41	47.23	316.14	-868.94	905.73	884.84	20.89	43.363	
1,100.00	1,098.01	1,084.14	1,098.01	3.82	19.31	47.79	316.01	-868.94	897.41	874.28	23.13	38.800	
1,200.00	1,197.26	1,184.82	1,198.69	4.18	21.52	48.40	316.26	-868.94	889.33	863.64	25.69	34.611	
1,300.00	1,296.52	1,282.70	1,296.52	4.53	23.87	48.96	316.01	-868.94	881.14	852.74	28.40	31.025	
1,400.00	1,395.77	1,388.39	1,402.18	4.89	26.56	49.60	315.94	-868.94	873.15	841.70	31.44	27.768	
1,500.00	1,495.02	1,481.30	1,495.02	5.25	28.72	50.18	316.01	-868.94	865.25	831.29	33.96	25.475	
1,600.00	1,594.28	1,580.56	1,594.28	5.61	31.03	50.80	316.01	-868.94	857.46	820.82	36.64	23.403	
1,700.00	1,693.53	1,681.40	1,695.08	5.98	33.38	51.56	317.96	-868.94	850.61	811.26	39.35	21.616	
1,800.00	1,792.79	1,783.55	1,797.20	6.34	35.76	52.18	317.15	-868.94	842.70	800.61	42.09	20.019	
1,900.00	1,892.04	1,878.46	1,892.04	6.70	37.92	52.74	316.01	-868.94	834.71	790.10	44.61	18.710	
2,000.00	1,991.29	1,977.72	1,991.29	7.07	39.87	53.41	316.01	-868.94	827.35	780.42	46.93	17.630	
2,100.00	2,090.55	2,078.79	2,092.36	7.43	41.86	54.11	316.21	-868.94	820.20	770.92	49.28	16.643	
2,200.00	2,189.80	2,176.25	2,189.80	7.80	43.68	54.78	316.01	-868.94	812.97	761.50	51.48	15.793	
2,300.00	2,289.05	2,275.50	2,289.05	8.17	45.49	55.48	316.01	-868.94	805.97	752.32	53.65	15.023	
2,400.00	2,388.31	2,374.89	2,388.43	8.53	47.30	56.25	316.81	-868.94	799.49	743.67	55.82	14.322	
2,500.00	2,487.56	2,475.23	2,488.78	8.90	49.12	56.98	316.65	-868.94	792.66	734.65	58.01	13.663	
2,600.00	2,586.81	2,575.62	2,589.16	9.27	50.95	57.70	316.21	-868.94	785.82	725.61	60.21	13.052	
2,700.00	2,686.07	2,672.53	2,686.07	9.63	52.81	58.42	316.01	-868.94	779.22	716.78	62.43	12.481	
2,800.00	2,785.32	2,771.79	2,785.32	10.00	54.76	59.19	316.01	-868.94	772.86	708.11	64.76	11.935	
2,900.00	2,884.57	2,871.10	2,884.64	10.37	56.72	59.99	316.27	-868.94	766.80	699.72	67.08	11.431	
3,000.00	2,983.83	2,970.74	2,984.28	10.74	58.68	60.78	316.21	-868.94	760.71	691.30	69.41	10.959	
3,100.00	3,083.08	3,070.39	3,083.93	11.11	60.64	61.57	316.07	-868.94	754.71	682.97	71.74	10.520	
3,200.00	3,182.34	3,168.85	3,182.34	11.47	62.73	62.38	316.01	-868.94	748.91	674.71	74.20	10.093	
3,300.00	3,281.59	3,268.10	3,281.59	11.84	64.91	63.21	316.01	-868.94	743.30	666.55	76.75	9.685	
3,400.00	3,380.84	3,367.71	3,381.18	12.21	67.09	64.13	317.36	-868.94	738.69	659.39	79.30	9.315	
3,500.00	3,480.10	3,469.04	3,482.50	12.58	69.31	64.98	317.06	-868.94	733.23	651.34	81.89	8.954	
3,600.00	3,579.35	3,570.43	3,583.88	12.95	71.54	65.82	316.31	-868.94	727.65	643.17	84.48	8.613	
3,700.00	3,678.60	3,665.21	3,678.60	13.32	73.52	66.64	316.01	-868.94	722.49	635.66	86.83	8.320	
3,800.00	3,777.86	3,764.47	3,777.86	13.69	75.55	67.53	316.01	-868.94	717.71	628.48	89.23	8.043	
3,900.00	3,877.11	3,863.99	3,877.37	14.05	77.58	68.49	317.09	-868.94	713.84	622.20	91.64	7.790	
4,000.00	3,976.36	3,964.99	3,978.37	14.42	79.65	69.41	316.85	-868.94	709.27	615.20	94.07	7.540	
4,100.00	4,075.62	4,066.04	4,079.41	14.79	81.71	70.31	316.26	-868.94	704.63	608.13	96.50	7.302	
4,200.00	4,174.87	4,161.54	4,174.87	15.16	83.62	71.19	316.01	-868.94	700.39	601.62	98.78	7.091	
4,300.00	4,274.12	4,260.79	4,274.12	15.53	85.57	72.14	316.01	-868.94	696.53	595.43	101.10	6.889	
4,400.00	4,373.38	4,360.49	4,373.81	15.90	87.53	73.14	316.75	-868.94	693.41	589.98	103.43	6.704	
4,500.00	4,472.63	4,461.21	4,474.53	16.27	89.51	74.10	316.53	-868.94	689.78	584.00	105.78	6.521	
4,600.00	4,571.89	4,561.97	4,575.29	16.64	91.50	75.06	316.01	-868.94	686.13	578.00	108.13	6.345	
4,700.00	4,671.14	4,657.85	4,671.14	17.01	93.53	76.01	316.01	-868.94	683.04	572.51	110.54	6.179	
4,800.00	4,770.39	4,757.10	4,770.39	17.38	95.63	77.00	316.01	-868.94	680.18	567.17	113.01	6.019	
4,900.00	4,869.65	4,857.04	4,870.32	17.75	97.75	78.04	316.78	-868.94	678.13	562.63	115.50	5.871	
5,000.00	4,968.90	4,957.75	4,971.04	18.12	99.89	79.05	316.52	-868.94	675.48	557.48	118.00	5.724	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) GEM 8705 JV-P 003 - INJ - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **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
5,100.00	5,068.15	5,058.51	5,071.78	18.49	102.03	80.05	315.99	-868.94	672.83	552.32	120.51	5.583	
5,200.00	5,167.41	5,154.21	5,167.41	18.86	104.05	81.03	316.01	-868.94	670.81	547.90	122.90	5.458	
5,300.00	5,266.86	5,253.66	5,266.86	19.22	106.09	81.87	316.01	-868.94	669.25	543.95	125.30	5.341	
5,400.00	5,366.61	5,354.57	5,367.76	19.58	108.15	82.47	316.47	-868.94	668.69	540.97	127.73	5.235	
5,500.00	5,466.55	5,456.92	5,470.11	19.94	110.24	82.73	316.04	-868.94	667.90	537.73	130.17	5.131	
5,584.19	5,550.74	5,537.58	5,550.74	20.22	111.83	82.79	316.01	-868.94	667.76	535.71	132.05	5.057	
5,600.00	5,566.55	5,553.39	5,566.55	20.27	112.14	-33.02	316.01	-868.94	667.81	535.40	132.41	5.043	
5,700.00	5,666.55	5,653.39	5,666.55	20.60	114.11	-33.02	316.01	-868.94	667.81	533.10	134.71	4.957	
5,800.00	5,766.55	5,754.22	5,767.37	20.93	116.10	-32.97	317.06	-868.94	668.70	531.67	137.02	4.880	
5,900.00	5,866.55	5,856.24	5,869.38	21.27	118.10	-32.99	316.73	-868.94	668.43	529.06	139.36	4.796	
6,000.00	5,966.55	5,958.26	5,971.40	21.60	120.11	-33.02	316.04	-868.94	667.85	526.16	141.70	4.713	
6,008.50	5,975.05	5,966.94	5,980.07	21.63	120.28	-33.03	315.96	-868.94	667.79	525.89	141.90	4.706	
6,100.00	6,066.55	6,053.43	6,066.55	21.93	121.91	-33.02	316.01	-868.94	667.81	523.97	143.84	4.643	
6,200.00	6,166.55	6,153.43	6,166.55	22.27	123.81	-33.02	316.01	-868.94	667.81	521.74	146.07	4.572	
6,300.00	6,266.55	6,253.89	6,267.01	22.60	125.71	-33.00	316.52	-868.94	668.24	519.94	148.30	4.506	
6,400.00	6,366.55	6,354.91	6,368.02	22.94	127.62	-33.01	316.35	-868.94	668.10	517.55	150.55	4.438	
6,500.00	6,466.55	6,453.46	6,466.55	23.27	129.48	-33.02	316.01	-868.94	667.81	515.06	152.75	4.372	
6,600.00	6,566.55	6,553.46	6,566.55	23.61	131.45	-33.02	316.01	-868.94	667.81	512.75	155.06	4.307	
6,700.00	6,666.55	6,653.46	6,666.55	23.95	133.42	-33.02	316.01	-868.94	667.81	510.44	157.37	4.244	
6,800.00	6,766.55	6,754.24	6,767.33	24.28	135.41	-32.99	316.78	-868.94	668.46	508.77	159.69	4.186	
6,900.00	6,866.55	6,855.75	6,868.83	24.62	137.40	-33.00	316.50	-868.94	668.23	506.21	162.02	4.124	
7,000.00	6,966.55	6,953.50	6,966.55	24.96	139.33	-33.02	316.01	-868.94	667.81	503.52	164.29	4.065	
7,100.00	7,066.55	7,053.50	7,066.55	25.30	141.30	-33.02	316.01	-868.94	667.81	501.21	166.60	4.008	
7,200.00	7,166.55	7,153.50	7,166.55	25.64	143.27	-33.02	316.01	-868.94	667.81	498.90	168.91	3.954	
7,300.00	7,266.55	7,254.31	7,267.35	25.98	145.25	-32.99	316.78	-868.94	668.46	497.23	171.23	3.904	
7,400.00	7,366.55	7,355.82	7,368.85	26.33	147.25	-33.00	316.50	-868.94	668.23	494.66	173.57	3.850	
7,500.00	7,466.55	7,453.55	7,466.55	26.67	149.17	-33.02	316.01	-868.94	667.81	491.97	175.84	3.798	
7,600.00	7,566.55	7,553.55	7,566.55	27.01	151.14	-33.02	316.01	-868.94	667.81	489.66	178.15	3.749	
7,700.00	7,666.55	7,653.55	7,666.55	27.35	153.11	-33.02	316.01	-868.94	667.81	487.35	180.46	3.701	
7,800.00	7,766.55	7,754.36	7,767.36	27.70	155.10	-32.99	316.78	-868.94	668.46	485.67	182.79	3.657	
7,900.00	7,866.55	7,855.86	7,868.86	28.04	157.09	-33.00	316.50	-868.94	668.23	483.10	185.13	3.609	
8,000.00	7,966.55	7,953.59	7,966.55	28.38	159.02	-33.02	316.01	-868.94	667.81	480.41	187.40	3.564	
8,100.00	8,066.55	8,053.59	8,066.55	28.73	160.99	-33.02	316.01	-868.94	667.81	478.10	189.72	3.520	
8,200.00	8,166.55	8,153.59	8,166.55	29.07	162.96	-33.02	316.01	-868.94	667.81	475.78	192.03	3.478	
8,300.00	8,266.55	8,254.73	8,267.68	29.42	164.95	-32.99	316.70	-868.94	668.39	474.03	194.36	3.439	
8,400.00	8,366.55	8,356.34	8,369.29	29.76	166.95	-33.01	316.35	-868.94	668.10	471.39	196.71	3.396	
8,500.00	8,466.55	8,453.63	8,466.55	30.11	168.89	-33.02	316.01	-868.94	667.81	468.81	199.00	3.356	
8,600.00	8,566.55	8,553.63	8,566.55	30.45	170.94	-33.02	316.01	-868.94	667.81	466.42	201.39	3.316	
8,700.00	8,666.55	8,653.63	8,666.55	30.80	172.98	-33.02	316.01	-868.94	667.81	464.03	203.78	3.277	
8,800.00	8,766.55	8,754.95	8,767.87	31.15	175.05	-32.99	316.72	-868.94	668.41	462.21	206.20	3.242	
8,900.00	8,866.55	8,856.46	8,869.37	31.49	177.13	-33.01	316.34	-868.94	668.10	459.48	208.62	3.203	
9,000.00	8,966.55	8,953.69	8,966.55	31.84	179.20	-33.02	316.01	-868.94	667.81	456.77	211.04	3.164	
9,100.00	9,066.55	9,053.69	9,066.55	32.19	181.47	-33.02	316.01	-868.94	667.81	454.15	213.66	3.126	
9,200.00	9,166.55	9,153.69	9,166.55	32.54	183.74	-33.02	316.01	-868.94	667.81	451.53	216.28	3.088	
9,300.00	9,266.55	9,255.53	9,268.38	32.88	186.05	-32.98	316.94	-868.94	668.59	449.66	218.94	3.054	
9,400.00	9,366.55	9,357.57	9,370.41	33.23	188.37	-33.00	316.42	-868.94	668.17	446.57	221.60	3.015	
9,500.00	9,466.55	9,453.81	9,466.55	33.58	190.63	-33.02	316.01	-868.94	667.81	443.61	224.21	2.979	
9,600.00	9,566.55	9,553.81	9,566.55	33.93	193.06	-33.02	316.01	-868.94	667.81	440.82	226.99	2.942	
9,700.00	9,666.55	9,653.81	9,666.55	34.28	195.49	-33.02	316.01	-868.94	667.81	438.04	229.77	2.906	
9,800.00	9,766.21	9,756.31	9,769.02	34.63	197.98	-23.44	317.39	-868.94	662.84	430.24	232.60	2.850	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) GEM 8705 JV-P 003 - INJ - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **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
9,900.00	9,863.22	9,856.05	9,868.74	34.96	200.41	-25.31	316.62	-868.94	640.47	405.11	235.36	2.721	
10,000.00	9,954.63	9,942.06	9,954.63	35.26	202.51	-28.71	316.01	-868.94	603.43	365.67	237.77	2.538	
10,100.00	10,037.67	10,025.10	10,037.67	35.52	204.53	-34.43	316.01	-868.94	553.93	313.88	240.06	2.308	
10,200.00	10,109.82	10,097.25	10,109.82	35.74	206.30	-43.36	316.01	-868.94	494.10	252.07	242.03	2.041	
10,300.00	10,168.87	10,156.47	10,169.02	35.91	207.74	-55.93	317.55	-868.94	428.90	185.25	243.65	1.760	
10,400.00	10,213.04	10,201.11	10,213.65	36.05	208.83	-70.91	317.47	-868.94	361.89	117.02	244.87	1.478	Level 3
10,500.00	10,240.99	10,228.94	10,241.48	36.17	209.51	-83.50	317.37	-868.94	303.39	57.73	245.66	1.235	Level 2
10,600.00	10,251.86	10,239.37	10,251.91	36.25	209.77	-89.75	317.31	-868.94	266.78	20.76	246.02	1.084	Level 2
10,655.44	10,252.74	10,239.96	10,252.51	36.29	209.78	-89.95	317.31	-868.94	260.96	14.89	246.07	1.060	Level 2, CC, ES, SF
10,700.00	10,252.00	10,239.00	10,251.54	36.32	209.76	-89.90	317.32	-868.94	264.73	18.66	246.07	1.076	Level 2
10,800.00	10,252.00	10,238.50	10,251.04	36.41	209.75	-89.79	317.32	-868.94	298.32	52.24	246.08	1.212	Level 2
10,900.00	10,252.00	10,238.01	10,250.55	36.53	209.74	-89.68	317.32	-868.94	357.64	111.58	246.05	1.453	Level 3
11,000.00	10,252.00	10,237.51	10,250.06	36.66	209.72	-89.57	317.32	-868.94	432.22	186.19	246.03	1.757	
11,100.00	10,252.00	10,237.03	10,249.57	36.81	209.71	-89.47	317.33	-868.94	515.49	269.48	246.01	2.095	
11,200.00	10,252.00	10,236.55	10,249.09	36.97	209.70	-89.36	317.33	-868.94	603.85	357.85	246.00	2.455	
11,300.00	10,252.00	10,236.07	10,248.62	37.16	209.69	-89.26	317.33	-868.94	695.37	449.39	245.99	2.827	
11,400.00	10,252.00	10,235.60	10,248.15	37.35	209.68	-89.15	317.33	-868.94	788.96	542.98	245.98	3.207	
11,500.00	10,252.00	10,235.14	10,247.68	37.57	209.67	-89.05	317.34	-868.94	883.95	637.97	245.98	3.594	
11,600.00	10,252.00	10,234.68	10,247.22	37.80	209.65	-88.95	317.34	-868.94	979.93	733.96	245.98	3.984	
11,700.00	10,252.00	10,234.22	10,246.76	38.04	209.64	-88.85	317.34	-868.94	1,076.65	830.67	245.98	4.377	
11,800.00	10,252.00	10,233.77	10,246.31	38.30	209.63	-88.71	317.34	-868.94	1,173.94	927.95	245.98	4.772	
11,900.00	10,252.00	10,233.32	10,245.86	38.57	209.62	-88.33	317.34	-868.94	1,272.11	1,026.12	245.99	5.171	
12,000.00	10,252.00	10,232.87	10,245.42	38.85	209.61	-87.71	317.35	-868.94	1,371.09	1,125.09	246.00	5.574	
12,100.00	10,252.00	10,232.43	10,244.97	39.14	209.60	-86.51	317.35	-868.94	1,470.59	1,224.58	246.01	5.978	
12,200.00	10,252.00	10,231.99	10,244.54	39.44	209.59	-83.15	317.35	-868.94	1,570.41	1,324.39	246.02	6.383	
12,300.00	10,252.00	10,231.56	10,244.10	39.74	209.58	-73.02	317.35	-868.94	1,670.38	1,424.35	246.03	6.789	
12,400.00	10,252.00	10,231.13	10,243.67	40.05	209.57	-72.15	317.36	-868.94	1,770.36	1,524.32	246.04	7.195	
12,500.00	10,252.00	10,230.70	10,243.24	40.38	209.56	-71.30	317.36	-868.94	1,870.35	1,624.30	246.06	7.601	
12,600.00	10,252.00	10,230.28	10,242.82	40.71	209.55	-70.47	317.36	-868.94	1,970.34	1,724.27	246.07	8.007	
12,700.00	10,252.00	10,229.86	10,242.40	41.06	209.54	-69.65	317.36	-868.94	2,070.33	1,824.25	246.09	8.413	
12,800.00	10,252.00	10,229.44	10,241.99	41.42	209.53	-68.84	317.36	-868.94	2,170.32	1,924.22	246.10	8.819	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) GEM 8705 JV-P 006H - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 9655-MWD OWSG Rev5 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,966.55	11,546.73	10,170.30	31.84	38.40	-2.14	1,625.55	-574.76	2,224.59	2,161.81	62.78	35.437	
9,100.00	9,066.55	11,549.90	10,170.36	32.19	38.48	-2.04	1,625.63	-571.59	2,172.10	2,108.01	64.09	33.889	
9,200.00	9,166.55	11,553.40	10,170.43	32.54	38.57	-1.93	1,625.71	-568.09	2,123.03	2,057.61	65.42	32.453	
9,300.00	9,266.55	11,557.26	10,170.51	32.88	38.66	-1.81	1,625.79	-564.23	2,077.61	2,010.88	66.74	31.131	
9,400.00	9,366.55	11,561.55	10,170.60	33.23	38.77	-1.68	1,625.88	-559.94	2,036.09	1,968.05	68.04	29.924	
9,500.00	9,466.55	11,566.35	10,170.72	33.58	38.89	-1.54	1,625.97	-555.15	1,998.71	1,929.40	69.31	28.835	
9,600.00	9,566.55	11,571.75	10,170.85	33.93	39.02	-1.37	1,626.06	-549.75	1,965.71	1,895.16	70.54	27.865	
9,700.00	9,666.55	11,577.87	10,171.01	34.28	39.17	-1.18	1,626.15	-543.63	1,937.30	1,865.58	71.72	27.013	
9,800.00	9,766.21	11,582.05	10,171.12	34.63	39.27	9.39	1,626.20	-539.46	1,907.33	1,834.59	72.74	26.221	
9,900.00	9,863.22	11,579.06	10,171.04	34.96	39.20	10.06	1,626.17	-542.44	1,865.98	1,792.55	73.44	25.409	
10,000.00	9,954.63	11,568.09	10,170.76	35.26	38.93	10.77	1,626.00	-553.41	1,813.65	1,739.87	73.78	24.582	
10,100.00	10,037.67	11,549.54	10,170.35	35.52	38.47	11.57	1,625.62	-571.95	1,750.95	1,677.18	73.77	23.735	
10,200.00	10,109.82	11,525.11	10,169.97	35.74	37.87	12.59	1,624.91	-596.37	1,678.67	1,605.21	73.46	22.851	
10,300.00	10,168.87	11,508.97	10,169.79	35.91	37.48	14.92	1,624.32	-612.50	1,597.81	1,524.58	73.24	21.817	
10,400.00	10,213.04	11,495.52	10,169.65	36.05	37.15	19.42	1,623.81	-625.94	1,509.70	1,436.71	72.99	20.685	
10,500.00	10,240.99	11,481.13	10,169.50	36.17	36.80	29.08	1,623.25	-640.31	1,415.88	1,343.23	72.65	19.489	
10,600.00	10,251.86	11,466.30	10,169.34	36.25	36.43	57.82	1,622.66	-655.13	1,318.27	1,245.99	72.28	18.239	
10,700.00	10,252.00	11,454.00	10,169.22	36.32	36.13	63.23	1,622.15	-667.42	1,219.39	1,147.41	71.97	16.942	
10,800.00	10,252.00	11,454.00	10,169.22	36.41	36.13	63.23	1,622.15	-667.42	1,120.63	1,048.65	71.98	15.568	
10,900.00	10,252.00	11,438.16	10,169.06	36.53	35.74	60.80	1,621.59	-683.25	1,021.89	950.32	71.58	14.277	
11,000.00	10,252.00	11,429.81	10,168.98	36.66	35.53	59.36	1,621.37	-691.60	923.37	852.01	71.36	12.940	
11,100.00	10,252.00	11,420.65	10,168.90	36.81	35.31	57.63	1,621.20	-700.76	825.04	753.94	71.11	11.603	
11,200.00	10,252.00	11,410.57	10,168.81	36.97	35.06	55.52	1,621.09	-710.84	726.96	656.15	70.81	10.266	
11,300.00	10,252.00	11,391.00	10,168.67	37.16	34.57	50.72	1,621.11	-730.40	629.29	559.05	70.24	8.959	
11,400.00	10,252.00	11,385.17	10,168.62	37.35	34.43	49.07	1,621.16	-736.23	531.88	461.92	69.96	7.602	
11,500.00	10,252.00	11,366.50	10,168.46	37.57	33.97	42.96	1,621.30	-754.90	435.05	365.80	69.25	6.282	
11,600.00	10,252.00	11,348.14	10,168.27	37.80	33.52	35.50	1,621.41	-773.26	339.08	270.79	68.29	4.965	
11,700.00	10,252.00	11,330.08	10,168.04	38.04	33.08	26.56	1,621.49	-791.31	245.02	178.36	66.66	3.676	
11,800.00	10,252.00	11,313.30	10,167.77	38.30	32.66	16.12	1,621.57	-808.09	156.40	93.80	62.60	2.498	
11,900.00	10,252.00	11,298.42	10,167.43	38.57	32.30	4.61	1,621.70	-822.97	90.82	41.68	49.13	1.848	
11,933.02	10,252.00	11,294.10	10,167.31	38.66	32.19	1.60	1,621.74	-827.29	84.72	38.52	46.20	1.834	CC, ES, SF
12,000.00	10,252.00	11,286.29	10,167.08	38.85	32.00	-3.12	1,621.83	-835.10	107.69	51.25	56.44	1.908	
12,100.00	10,252.00	11,277.09	10,166.78	39.14	31.78	-6.51	1,621.96	-844.29	186.39	121.55	64.84	2.875	
12,200.00	10,252.00	11,271.05	10,166.56	39.44	31.63	-5.51	1,622.05	-850.33	278.97	212.19	66.79	4.177	
12,300.00	10,252.00	11,268.15	10,166.45	39.74	31.56	-2.94	1,622.10	-853.23	375.40	307.96	67.43	5.567	
12,400.00	10,252.00	11,265.89	10,166.37	40.05	31.50	-4.44	1,622.14	-855.48	473.30	405.60	67.70	6.991	
12,500.00	10,252.00	11,264.00	10,166.29	40.38	31.45	-5.69	1,622.17	-857.37	571.93	504.10	67.83	8.432	
12,600.00	10,252.00	11,264.00	10,166.29	40.71	31.45	-5.69	1,622.17	-857.37	670.96	603.02	67.93	9.877	
12,700.00	10,252.00	11,259.65	10,166.12	41.06	31.35	-8.53	1,622.24	-861.72	770.22	702.31	67.92	11.341	
12,800.00	10,252.00	11,257.77	10,166.05	41.42	31.30	-9.74	1,622.27	-863.59	869.66	801.73	67.93	12.802	
12,900.00	10,252.00	11,255.96	10,165.99	41.79	31.26	-10.90	1,622.30	-865.40	969.20	901.27	67.94	14.266	
13,000.00	10,252.00	11,254.21	10,165.92	42.17	31.21	-12.01	1,622.33	-867.15	1,068.83	1,000.89	67.94	15.732	
13,100.00	10,252.00	11,252.52	10,165.86	42.56	31.17	-13.08	1,622.36	-868.84	1,168.52	1,100.58	67.94	17.200	
13,200.00	10,252.00	11,250.88	10,165.81	42.97	31.13	-14.10	1,622.38	-870.47	1,268.25	1,200.31	67.94	18.668	
13,300.00	10,252.00	11,249.30	10,165.76	43.38	31.09	-15.07	1,622.41	-872.06	1,368.02	1,300.09	67.94	20.137	
13,400.00	10,252.00	11,247.76	10,165.71	43.80	31.06	-16.01	1,622.43	-873.60	1,467.82	1,399.89	67.94	21.606	
13,500.00	10,252.00	11,246.27	10,165.66	44.23	31.02	-16.91	1,622.45	-875.08	1,567.65	1,499.71	67.94	23.075	
13,600.00	10,252.00	11,244.82	10,165.61	44.67	30.98	-17.78	1,622.47	-876.53	1,667.49	1,599.55	67.94	24.544	
13,700.00	10,252.00	11,243.42	10,165.57	45.12	30.95	-18.61	1,622.49	-877.93	1,767.35	1,699.41	67.94	26.012	
13,800.00	10,252.00	11,242.06	10,165.53	45.57	30.92	-19.40	1,622.51	-879.29	1,867.22	1,799.27	67.95	27.480	
13,900.00	10,252.00	11,240.74	10,165.49	46.04	30.88	-20.17	1,622.52	-880.61	1,967.11	1,899.15	67.96	28.947	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) GEM 8705 JV-P 006H - OH - Surveys

Offset Site Error: 0.00 usft

Survey Program: 9655-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
14,000.00	10,252.00	11,239.46	10,165.46	46.51	30.85	-20.91	1,622.54	-881.89	2,067.00	1,999.04	67.96	30.413	
14,100.00	10,252.00	11,238.21	10,165.42	46.99	30.82	-21.62	1,622.56	-883.14	2,166.91	2,098.93	67.97	31.878	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) GEM 8705 JV-P 009 - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,900.00	10,252.00	10,254.65	10,252.00	41.79	240.52	90.00	4,599.88	87.30	2,221.17	1,942.28	278.90	7.964	
13,000.00	10,252.00	10,254.65	10,252.00	42.17	240.52	90.00	4,599.88	87.30	2,131.19	1,852.05	279.14	7.635	
13,100.00	10,252.00	10,254.65	10,252.00	42.56	240.52	90.00	4,599.88	87.30	2,042.15	1,762.73	279.41	7.309	
13,200.00	10,252.00	10,254.65	10,252.00	42.97	240.52	90.00	4,599.88	87.30	1,954.16	1,674.44	279.72	6.986	
13,300.00	10,252.00	10,254.65	10,252.00	43.38	240.52	90.00	4,599.88	87.30	1,867.38	1,587.32	280.06	6.668	
13,400.00	10,252.00	10,254.65	10,252.00	43.80	240.52	90.00	4,599.88	87.30	1,781.99	1,501.54	280.45	6.354	
13,500.00	10,252.00	10,254.65	10,252.00	44.23	240.52	90.00	4,599.88	87.30	1,698.20	1,417.31	280.88	6.046	
13,600.00	10,252.00	10,254.65	10,252.00	44.67	240.52	90.00	4,599.88	87.30	1,616.25	1,334.87	281.37	5.744	
13,700.00	10,252.00	10,254.65	10,252.00	45.12	240.52	90.00	4,599.88	87.30	1,536.43	1,254.51	281.92	5.450	
13,800.00	10,252.00	10,254.65	10,252.00	45.57	240.52	90.00	4,599.88	87.30	1,459.11	1,176.57	282.54	5.164	
13,900.00	10,252.00	10,254.65	10,252.00	46.04	240.52	90.00	4,599.88	87.30	1,384.70	1,101.47	283.23	4.889	
14,000.00	10,252.00	10,254.65	10,252.00	46.51	240.52	90.00	4,599.88	87.30	1,313.68	1,029.68	284.00	4.626	
14,100.00	10,252.00	10,254.65	10,252.00	46.99	240.52	90.00	4,599.88	87.30	1,246.65	961.81	284.84	4.377	
14,200.00	10,252.00	10,254.65	10,252.00	47.48	240.52	90.00	4,599.88	87.30	1,184.28	898.52	285.76	4.144	
14,300.00	10,252.00	10,254.65	10,252.00	47.98	240.52	90.00	4,599.88	87.30	1,127.34	840.61	286.73	3.932	
14,400.00	10,252.00	10,254.65	10,252.00	48.48	240.52	90.00	4,599.88	87.30	1,076.69	788.97	287.73	3.742	
14,500.00	10,252.00	10,254.65	10,252.00	48.99	240.52	90.00	4,599.88	87.30	1,033.27	744.55	288.72	3.579	
14,600.00	10,252.00	10,254.65	10,252.00	49.50	240.52	90.00	4,599.88	87.30	998.01	708.37	289.65	3.446	
14,700.00	10,252.00	10,254.65	10,252.00	50.03	240.52	90.00	4,599.88	87.30	971.80	681.35	290.45	3.346	
14,800.00	10,252.00	10,254.65	10,252.00	50.56	240.52	90.00	4,599.88	87.30	955.40	664.32	291.07	3.282	
14,900.00	10,252.00	10,254.65	10,252.00	51.09	240.52	90.00	4,599.88	87.30	949.29	657.84	291.46	3.257	
14,908.11	10,252.00	10,254.65	10,252.00	51.13	240.52	90.00	4,599.88	87.30	949.26	657.78	291.48	3.257	CC, ES, SF
15,000.00	10,252.00	10,254.65	10,252.00	51.63	240.52	90.00	4,599.88	87.30	953.70	662.12	291.58	3.271	
15,100.00	10,252.00	10,254.65	10,252.00	52.18	240.52	90.00	4,599.88	87.30	968.46	677.01	291.45	3.323	
15,200.00	10,252.00	10,254.65	10,252.00	52.73	240.52	90.00	4,599.88	87.30	993.12	702.04	291.09	3.412	
15,300.00	10,252.00	10,254.65	10,252.00	53.29	240.52	90.00	4,599.88	87.30	1,026.97	736.42	290.55	3.535	
15,400.00	10,252.00	10,254.65	10,252.00	53.85	240.52	90.00	4,599.88	87.30	1,069.14	779.25	289.89	3.688	
15,500.00	10,252.00	10,254.65	10,252.00	54.42	240.52	90.00	4,599.88	87.30	1,118.67	829.51	289.17	3.869	
15,600.00	10,252.00	10,254.65	10,252.00	54.99	240.52	90.00	4,599.88	87.30	1,174.65	886.23	288.42	4.073	
15,700.00	10,252.00	10,254.65	10,252.00	55.57	240.52	90.00	4,599.88	87.30	1,236.20	948.51	287.69	4.297	
15,800.00	10,252.00	10,254.65	10,252.00	56.15	240.52	90.00	4,599.88	87.30	1,302.52	1,015.53	286.99	4.539	
15,900.00	10,252.00	10,254.65	10,252.00	56.74	240.52	90.00	4,599.88	87.30	1,372.93	1,086.60	286.34	4.795	
16,000.00	10,252.00	10,254.65	10,252.00	57.33	240.52	90.00	4,599.88	87.30	1,446.83	1,161.09	285.74	5.063	
16,100.00	10,252.00	10,254.65	10,252.00	57.92	240.52	90.00	4,599.88	87.30	1,523.71	1,238.51	285.20	5.343	
16,200.00	10,252.00	10,254.65	10,252.00	58.52	240.52	90.00	4,599.88	87.30	1,603.14	1,318.43	284.72	5.631	
16,300.00	10,252.00	10,254.65	10,252.00	59.12	240.52	90.00	4,599.88	87.30	1,684.77	1,400.48	284.29	5.926	
16,400.00	10,252.00	10,254.65	10,252.00	59.73	240.52	90.00	4,599.88	87.30	1,768.28	1,484.38	283.90	6.228	
16,500.00	10,252.00	10,254.65	10,252.00	60.34	240.52	90.00	4,599.88	87.30	1,853.43	1,569.87	283.56	6.536	
16,600.00	10,252.00	10,254.65	10,252.00	60.95	240.52	90.00	4,599.88	87.30	1,940.00	1,656.73	283.27	6.849	
16,700.00	10,252.00	10,254.65	10,252.00	61.57	240.52	90.00	4,599.88	87.30	2,027.80	1,744.79	283.01	7.165	
16,800.00	10,252.00	10,254.65	10,252.00	62.19	240.52	90.00	4,599.88	87.30	2,116.68	1,833.90	282.78	7.485	
16,900.00	10,252.00	10,254.65	10,252.00	62.82	240.52	90.00	4,599.88	87.30	2,206.52	1,923.94	282.58	7.809	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) GEM 8705 JV-P 011H - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 200-NS-GYRO-MS, 9653-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
11,000.00	10,252.00	11,091.27	10,202.61	36.66	32.62	83.76	2,885.29	-597.86	2,185.14	2,116.51	68.63	31.838	
11,100.00	10,252.00	11,121.21	10,201.63	36.81	33.21	83.20	2,886.21	-627.78	2,087.29	2,018.05	69.23	30.149	
11,200.00	10,252.00	11,149.93	10,200.79	36.97	33.77	82.60	2,886.97	-656.47	1,989.35	1,919.54	69.81	28.498	
11,300.00	10,252.00	11,169.62	10,200.22	37.16	34.16	82.14	2,887.45	-676.15	1,891.37	1,821.14	70.23	26.932	
11,400.00	10,252.00	11,189.28	10,199.62	37.35	34.56	81.63	2,887.93	-695.79	1,793.40	1,722.75	70.65	25.386	
11,500.00	10,252.00	11,208.94	10,198.98	37.57	34.95	81.05	2,888.41	-715.44	1,695.43	1,624.37	71.07	23.857	
11,600.00	10,252.00	11,228.60	10,198.31	37.80	35.35	80.40	2,888.89	-735.08	1,597.48	1,525.99	71.49	22.347	
11,700.00	10,252.00	11,250.42	10,197.52	38.04	35.79	79.57	2,889.42	-756.88	1,499.54	1,427.59	71.95	20.841	
11,800.00	10,252.00	11,281.54	10,196.53	38.30	36.43	77.71	2,890.01	-787.98	1,401.48	1,328.88	72.60	19.305	
11,900.00	10,252.00	11,306.57	10,195.88	38.57	36.95	72.99	2,890.31	-813.00	1,302.88	1,229.77	73.11	17.820	
12,000.00	10,252.00	11,324.63	10,195.50	38.85	37.32	65.17	2,890.42	-831.06	1,203.72	1,130.24	73.49	16.380	
12,100.00	10,252.00	11,336.46	10,195.29	39.14	37.57	51.07	2,890.45	-842.88	1,104.19	1,030.46	73.73	14.976	
12,200.00	10,252.00	11,342.68	10,195.19	39.44	37.69	25.66	2,890.45	-849.10	1,004.44	930.59	73.85	13.601	
12,300.00	10,252.00	11,344.14	10,195.17	39.74	37.72	3.89	2,890.45	-850.56	904.63	830.76	73.87	12.246	
12,400.00	10,252.00	11,344.57	10,195.16	40.05	37.73	3.46	2,890.45	-850.99	804.85	730.99	73.86	10.896	
12,500.00	10,252.00	11,344.97	10,195.15	40.38	37.74	3.05	2,890.45	-851.39	705.14	631.30	73.84	9.549	
12,600.00	10,252.00	11,345.35	10,195.15	40.71	37.75	2.68	2,890.45	-851.77	605.52	531.72	73.80	8.205	
12,700.00	10,252.00	11,345.70	10,195.14	41.06	37.76	2.32	2,890.45	-852.12	506.05	432.34	73.71	6.865	
12,800.00	10,252.00	11,346.04	10,195.14	41.42	37.76	1.98	2,890.45	-852.46	406.84	333.29	73.55	5.532	
12,900.00	10,252.00	11,345.80	10,195.14	41.79	37.76	2.22	2,890.45	-852.23	308.14	234.94	73.20	4.209	
13,000.00	10,252.00	11,346.22	10,195.13	42.17	37.77	1.79	2,890.45	-852.65	210.67	138.34	72.34	2.912	
13,100.00	10,252.00	11,346.64	10,195.12	42.56	37.78	1.37	2,890.45	-853.06	117.53	48.53	69.01	1.703	
13,200.00	10,252.00	11,347.06	10,195.12	42.97	37.79	0.96	2,890.45	-853.48	56.96	2.70	54.26	1.050	Level 2
13,202.85	10,252.00	11,347.07	10,195.12	42.98	37.79	0.95	2,890.45	-853.49	56.89	2.52	54.37	1.046	Level 2, CC, ES, SF
13,300.00	10,252.00	11,347.47	10,195.11	43.38	37.80	0.54	2,890.45	-853.89	112.58	41.24	71.34	1.578	
13,400.00	10,252.00	11,347.87	10,195.10	43.80	37.80	0.13	2,890.45	-854.29	205.19	131.19	74.00	2.773	
13,500.00	10,252.00	11,348.28	10,195.10	44.23	37.81	-0.28	2,890.45	-854.70	302.54	228.03	74.51	4.060	
13,600.00	10,252.00	11,348.68	10,195.09	44.67	37.82	-0.68	2,890.45	-855.10	401.20	326.52	74.68	5.372	
13,700.00	10,252.00	11,349.08	10,195.08	45.12	37.83	-1.08	2,890.45	-855.50	500.39	425.62	74.77	6.692	
13,800.00	10,252.00	11,349.48	10,195.08	45.57	37.84	-1.48	2,890.45	-855.90	599.85	525.02	74.83	8.016	
13,900.00	10,252.00	11,349.87	10,195.07	46.04	37.85	-1.87	2,890.45	-856.29	699.46	624.59	74.87	9.342	
14,000.00	10,252.00	11,350.26	10,195.06	46.51	37.85	-2.27	2,890.45	-856.68	799.17	724.25	74.92	10.667	
14,100.00	10,252.00	11,350.65	10,195.06	46.99	37.86	-2.66	2,890.45	-857.07	898.95	823.98	74.96	11.992	
14,200.00	10,252.00	11,351.03	10,195.05	47.48	37.87	-3.04	2,890.45	-857.45	998.76	923.76	75.00	13.316	
14,300.00	10,252.00	11,351.41	10,195.04	47.98	37.88	-3.42	2,890.45	-857.83	1,098.62	1,023.57	75.05	14.639	
14,400.00	10,252.00	11,351.79	10,195.04	48.48	37.89	-3.80	2,890.45	-858.21	1,198.49	1,123.40	75.09	15.960	
14,500.00	10,252.00	11,352.17	10,195.03	48.99	37.89	-4.18	2,890.45	-858.59	1,298.39	1,223.25	75.14	17.279	
14,600.00	10,252.00	11,352.54	10,195.02	49.50	37.90	-4.55	2,890.45	-858.96	1,398.30	1,323.11	75.19	18.597	
14,700.00	10,252.00	11,352.92	10,195.02	50.03	37.91	-4.92	2,890.45	-859.34	1,498.22	1,422.98	75.24	19.913	
14,800.00	10,252.00	11,353.29	10,195.01	50.56	37.92	-5.29	2,890.45	-859.70	1,598.15	1,522.86	75.29	21.227	
14,900.00	10,252.00	11,353.65	10,195.01	51.09	37.93	-5.66	2,890.45	-860.07	1,698.09	1,622.75	75.34	22.539	
15,000.00	10,252.00	11,354.02	10,195.00	51.63	37.93	-6.02	2,890.45	-860.44	1,798.04	1,722.64	75.39	23.849	
15,100.00	10,252.00	11,354.38	10,194.99	52.18	37.94	-6.38	2,890.45	-860.80	1,897.99	1,822.54	75.45	25.157	
15,200.00	10,252.00	11,354.74	10,194.99	52.73	37.95	-6.73	2,890.45	-861.16	1,997.94	1,922.44	75.50	26.463	
15,300.00	10,252.00	11,355.09	10,194.98	53.29	37.96	-7.08	2,890.45	-861.51	2,097.91	2,022.35	75.56	27.766	
15,400.00	10,252.00	11,355.45	10,194.97	53.85	37.96	-7.43	2,890.45	-861.87	2,197.87	2,122.26	75.61	29.067	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) LAGUNA DEEP FEDERAL 001 - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **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
16,700.00	10,252.00	10,282.79	10,274.03	61.57	237.42	-119.30	8,552.57	-918.66	2,165.67	1,889.95	275.72	7.854	
16,800.00	10,252.00	10,281.25	10,272.50	62.19	237.37	-117.57	8,552.59	-918.66	2,065.69	1,789.96	275.74	7.492	
16,900.00	10,252.00	10,279.79	10,271.04	62.82	237.32	-115.87	8,552.60	-918.66	1,965.72	1,689.97	275.75	7.129	
17,000.00	10,252.00	10,278.40	10,269.64	63.44	237.28	-114.20	8,552.62	-918.66	1,865.74	1,589.98	275.76	6.766	
17,100.00	10,252.00	10,277.07	10,268.31	64.07	237.23	-112.57	8,552.63	-918.66	1,765.77	1,489.99	275.78	6.403	
17,200.00	10,252.00	10,275.80	10,267.05	64.71	237.19	-110.97	8,552.64	-918.66	1,665.80	1,390.00	275.80	6.040	
17,300.00	10,252.00	10,274.59	10,265.83	65.34	237.15	-109.41	8,552.65	-918.66	1,565.83	1,290.01	275.82	5.677	
17,400.00	10,252.00	10,273.43	10,264.67	65.98	237.12	-107.89	8,552.66	-918.66	1,465.87	1,190.02	275.85	5.314	
17,500.00	10,252.00	10,272.31	10,263.56	66.62	237.08	-106.41	8,552.67	-918.66	1,365.91	1,090.04	275.87	4.951	
17,600.00	10,252.00	10,271.24	10,262.49	67.27	237.05	-104.96	8,552.68	-918.66	1,265.96	990.06	275.90	4.588	
17,700.00	10,252.00	10,270.22	10,261.47	67.91	237.01	-103.56	8,552.69	-918.66	1,166.02	890.09	275.93	4.226	
17,800.00	10,252.00	10,269.24	10,260.48	68.56	236.98	-102.20	8,552.70	-918.66	1,066.08	790.13	275.96	3.863	
17,900.00	10,252.00	10,268.29	10,259.54	69.21	236.95	-100.87	8,552.70	-918.66	966.16	690.17	275.99	3.501	
18,000.00	10,252.00	10,267.38	10,258.63	69.87	236.92	-99.59	8,552.71	-918.66	866.26	590.24	276.02	3.138	
18,100.00	10,252.00	10,266.51	10,257.75	70.52	236.90	-98.34	8,552.72	-918.66	766.37	490.32	276.05	2.776	
18,200.00	10,252.00	10,265.66	10,256.91	71.18	236.87	-97.13	8,552.72	-918.66	666.53	390.44	276.09	2.414	
18,300.00	10,252.00	10,264.85	10,256.10	71.84	236.84	-95.96	8,552.73	-918.66	566.73	290.61	276.13	2.052	
18,400.00	10,252.00	10,264.06	10,255.31	72.51	236.82	-94.82	8,552.74	-918.66	467.03	190.84	276.19	1.691	
18,500.00	10,252.00	10,263.31	10,254.56	73.17	236.79	-93.73	8,552.74	-918.66	367.48	91.18	276.30	1.330	Level 3
18,600.00	10,252.00	10,262.57	10,253.82	73.84	236.77	-92.66	8,552.75	-918.66	268.27	-8.32	276.59	0.970	Level 1
18,700.00	10,252.00	10,261.87	10,253.12	74.51	236.75	-91.63	8,552.75	-918.66	169.98	-107.70	277.68	0.612	Level 1
18,800.00	10,252.00	10,261.18	10,252.43	75.18	236.72	-90.63	8,552.76	-918.66	76.26	-209.67	285.93	0.267	Level 1
18,865.39	10,252.00	10,260.75	10,252.00	75.62	236.71	-90.00	8,552.76	-918.66	39.26	-272.95	312.21	0.126	Level 1, CC, ES, SF
18,900.00	10,252.00	10,260.52	10,251.77	75.85	236.70	-89.67	8,552.76	-918.66	52.34	-249.19	301.53	0.174	Level 1
19,000.00	10,252.00	10,259.88	10,251.13	76.53	236.68	-88.73	8,552.76	-918.66	140.22	-142.17	282.39	0.497	Level 1
19,100.00	10,252.00	10,259.26	10,250.51	77.20	236.66	-87.83	8,552.77	-918.66	237.87	-41.50	279.37	0.851	Level 1
19,200.00	10,252.00	10,258.66	10,249.91	77.88	236.64	-86.95	8,552.77	-918.66	336.90	58.47	278.43	1.210	Level 2
19,300.00	10,252.00	10,258.08	10,249.33	78.56	236.62	-86.11	8,552.77	-918.66	436.37	158.33	278.04	1.569	
19,400.00	10,252.00	10,257.51	10,248.76	79.24	236.61	-85.29	8,552.78	-918.66	536.04	258.19	277.85	1.929	
19,500.00	10,252.00	10,256.96	10,248.21	79.92	236.59	-84.49	8,552.78	-918.66	635.81	358.05	277.76	2.289	
19,600.00	10,252.00	10,256.43	10,247.68	80.61	236.57	-83.72	8,552.78	-918.66	735.65	457.93	277.72	2.649	
19,700.00	10,252.00	10,255.91	10,247.16	81.30	236.55	-82.98	8,552.79	-918.66	835.52	557.81	277.71	3.009	
19,800.00	10,252.00	10,255.41	10,246.66	81.98	236.54	-82.26	8,552.79	-918.66	935.42	657.70	277.72	3.368	
19,900.00	10,252.00	10,254.92	10,246.17	82.67	236.52	-81.56	8,552.79	-918.66	1,035.34	757.59	277.75	3.728	
20,000.00	10,252.00	10,254.45	10,245.70	83.36	236.51	-80.88	8,552.80	-918.66	1,135.27	857.48	277.79	4.087	
20,100.00	10,252.00	10,253.98	10,245.24	84.05	236.49	-80.22	8,552.80	-918.66	1,235.21	957.38	277.83	4.446	
20,200.00	10,252.00	10,253.53	10,244.79	84.75	236.48	-79.59	8,552.80	-918.66	1,335.17	1,057.28	277.88	4.805	
20,300.00	10,252.00	10,253.10	10,244.35	85.44	236.46	-78.97	8,552.80	-918.66	1,435.12	1,157.18	277.94	5.163	
20,400.00	10,252.00	10,252.67	10,243.92	86.14	236.45	-78.37	8,552.81	-918.66	1,535.09	1,257.09	278.00	5.522	
20,500.00	10,252.00	10,252.25	10,243.51	86.83	236.44	-77.79	8,552.81	-918.66	1,635.06	1,356.99	278.07	5.880	
20,600.00	10,252.00	10,251.85	10,243.10	87.53	236.42	-77.23	8,552.81	-918.66	1,735.03	1,456.90	278.13	6.238	
20,700.00	10,252.00	10,251.45	10,242.71	88.23	236.41	-76.68	8,552.81	-918.66	1,835.00	1,556.80	278.20	6.596	
20,800.00	10,252.00	10,251.07	10,242.32	88.93	236.40	-76.15	8,552.81	-918.66	1,934.98	1,656.71	278.27	6.954	
20,900.00	10,252.00	10,250.69	10,241.95	89.63	236.39	-75.63	8,552.82	-918.66	2,034.96	1,756.61	278.35	7.311	
21,000.00	10,252.00	10,250.33	10,241.58	90.33	236.38	-75.13	8,552.82	-918.66	2,134.94	1,856.52	278.42	7.668	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) LAGUNA DEEP FEDERAL 003 - P&A - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **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
14,500.00	10,252.00	10,265.41	10,257.77	48.99	226.95	-90.24	5,907.74	-2,223.79	2,195.10	1,927.76	267.35	8.211	
14,600.00	10,252.00	10,265.06	10,257.42	49.50	226.94	-90.23	5,907.75	-2,223.79	2,117.37	1,849.46	267.91	7.903	
14,700.00	10,252.00	10,264.71	10,257.07	50.03	226.93	-90.21	5,907.75	-2,223.79	2,041.57	1,773.03	268.55	7.602	
14,800.00	10,252.00	10,264.36	10,256.72	50.56	226.93	-90.20	5,907.75	-2,223.79	1,967.94	1,698.69	269.25	7.309	
14,900.00	10,252.00	10,264.01	10,256.38	51.09	226.92	-90.19	5,907.75	-2,223.79	1,896.72	1,626.68	270.04	7.024	
15,000.00	10,252.00	10,263.67	10,256.04	51.63	226.91	-90.17	5,907.75	-2,223.79	1,828.20	1,557.29	270.91	6.748	
15,100.00	10,252.00	10,263.33	10,255.69	52.18	226.90	-90.16	5,907.75	-2,223.79	1,762.69	1,490.83	271.87	6.484	
15,200.00	10,252.00	10,262.99	10,255.36	52.73	226.90	-90.14	5,907.75	-2,223.79	1,700.55	1,427.64	272.91	6.231	
15,300.00	10,252.00	10,262.65	10,255.02	53.29	226.89	-90.13	5,907.75	-2,223.79	1,642.14	1,368.10	274.04	5.992	
15,400.00	10,252.00	10,262.32	10,254.68	53.85	226.88	-90.11	5,907.75	-2,223.79	1,587.89	1,312.64	275.25	5.769	
15,500.00	10,252.00	10,261.99	10,254.35	54.42	226.88	-90.10	5,907.76	-2,223.79	1,538.23	1,261.71	276.52	5.563	
15,600.00	10,252.00	10,261.65	10,254.02	54.99	226.87	-90.09	5,907.76	-2,223.79	1,493.63	1,215.79	277.84	5.376	
15,700.00	10,252.00	10,261.32	10,253.69	55.57	226.86	-90.07	5,907.76	-2,223.79	1,454.54	1,175.35	279.19	5.210	
15,800.00	10,252.00	10,261.00	10,253.36	56.15	226.86	-90.06	5,907.76	-2,223.79	1,421.43	1,140.90	280.53	5.067	
15,900.00	10,252.00	10,260.67	10,253.03	56.74	226.85	-90.04	5,907.76	-2,223.79	1,394.71	1,112.88	281.83	4.949	
16,000.00	10,252.00	10,260.35	10,252.71	57.33	226.84	-90.03	5,907.76	-2,223.79	1,374.77	1,091.72	283.05	4.857	
16,100.00	10,252.00	10,260.02	10,252.39	57.92	226.84	-90.02	5,907.76	-2,223.79	1,361.89	1,077.73	284.16	4.793	
16,200.00	10,252.00	10,259.70	10,252.07	58.52	226.83	-90.00	5,907.76	-2,223.79	1,356.29	1,071.16	285.13	4.757	
16,226.18	10,252.00	10,259.62	10,251.98	58.68	226.83	-90.00	5,907.76	-2,223.79	1,356.04	1,070.68	285.35	4.752	CC, ES
16,300.00	10,252.00	10,259.38	10,251.75	59.12	226.82	-89.99	5,907.76	-2,223.79	1,358.04	1,072.12	285.92	4.750	SF
16,400.00	10,252.00	10,259.07	10,251.43	59.73	226.82	-89.98	5,907.77	-2,223.79	1,367.13	1,080.60	286.53	4.771	
16,500.00	10,252.00	10,258.75	10,251.12	60.34	226.81	-89.96	5,907.77	-2,223.79	1,383.41	1,096.47	286.94	4.821	
16,600.00	10,252.00	10,258.44	10,250.80	60.95	226.81	-89.95	5,907.77	-2,223.79	1,406.62	1,119.45	287.17	4.898	
16,700.00	10,252.00	10,258.13	10,250.49	61.57	226.80	-89.94	5,907.77	-2,223.79	1,436.43	1,149.21	287.22	5.001	
16,800.00	10,252.00	10,257.81	10,250.18	62.19	226.79	-89.92	5,907.77	-2,223.79	1,472.45	1,185.33	287.12	5.128	
16,900.00	10,252.00	10,257.51	10,249.87	62.82	226.79	-89.91	5,907.77	-2,223.79	1,514.22	1,227.33	286.89	5.278	
17,000.00	10,252.00	10,257.20	10,249.56	63.44	226.78	-89.90	5,907.77	-2,223.79	1,561.29	1,274.73	286.56	5.448	
17,100.00	10,252.00	10,256.89	10,249.26	64.07	226.77	-89.88	5,907.77	-2,223.79	1,613.19	1,327.05	286.14	5.638	
17,200.00	10,252.00	10,256.59	10,248.95	64.71	226.77	-89.87	5,907.77	-2,223.79	1,669.48	1,383.80	285.67	5.844	
17,300.00	10,252.00	10,256.29	10,248.65	65.34	226.76	-89.86	5,907.77	-2,223.79	1,729.72	1,444.55	285.17	6.066	
17,400.00	10,252.00	10,255.99	10,248.35	65.98	226.76	-89.85	5,907.77	-2,223.79	1,793.51	1,508.87	284.64	6.301	
17,500.00	10,252.00	10,255.69	10,248.05	66.62	226.75	-89.83	5,907.78	-2,223.79	1,860.50	1,576.40	284.10	6.549	
17,600.00	10,252.00	10,255.39	10,247.75	67.27	226.74	-89.82	5,907.78	-2,223.79	1,930.34	1,646.78	283.56	6.808	
17,700.00	10,252.00	10,255.09	10,247.46	67.91	226.74	-89.81	5,907.78	-2,223.79	2,002.74	1,719.71	283.03	7.076	
17,800.00	10,252.00	10,254.80	10,247.16	68.56	226.73	-89.80	5,907.78	-2,223.79	2,077.43	1,794.92	282.52	7.353	
17,900.00	10,252.00	10,254.51	10,246.87	69.21	226.73	-89.78	5,907.78	-2,223.79	2,154.18	1,872.16	282.02	7.638	
18,000.00	10,252.00	10,254.22	10,246.58	69.87	226.72	-89.77	5,907.78	-2,223.79	2,232.77	1,951.22	281.55	7.930	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) LAGUNA DEEP FEDERAL UNIT 002 - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **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
19,800.00	10,252.00	10,275.03	10,252.00	81.98	242.77	-90.00	11,185.51	-2,242.09	2,174.58	1,874.29	300.29	7.242	
19,900.00	10,252.00	10,275.03	10,252.00	82.67	242.77	-90.00	11,185.51	-2,242.09	2,097.14	1,795.22	301.93	6.946	
20,000.00	10,252.00	10,275.03	10,252.00	83.36	242.77	-90.00	11,185.51	-2,242.09	2,021.69	1,717.99	303.69	6.657	
20,100.00	10,252.00	10,275.03	10,252.00	84.05	242.77	-90.00	11,185.51	-2,242.09	1,948.44	1,642.85	305.59	6.376	
20,200.00	10,252.00	10,275.03	10,252.00	84.75	242.77	-90.00	11,185.51	-2,242.09	1,877.67	1,570.05	307.62	6.104	
20,300.00	10,252.00	10,275.03	10,252.00	85.44	242.77	-90.00	11,185.51	-2,242.09	1,809.65	1,499.88	309.78	5.842	
20,400.00	10,252.00	10,275.03	10,252.00	86.14	242.77	-90.00	11,185.51	-2,242.09	1,744.72	1,432.66	312.07	5.591	
20,500.00	10,252.00	10,275.03	10,252.00	86.83	242.77	-90.00	11,185.51	-2,242.09	1,683.23	1,368.76	314.47	5.353	
20,600.00	10,252.00	10,275.03	10,252.00	87.53	242.77	-90.00	11,185.51	-2,242.09	1,625.57	1,308.60	316.97	5.128	
20,700.00	10,252.00	10,275.03	10,252.00	88.23	242.77	-90.00	11,185.51	-2,242.09	1,572.16	1,252.62	319.54	4.920	
20,800.00	10,252.00	10,275.03	10,252.00	88.93	242.77	-90.00	11,185.51	-2,242.09	1,523.45	1,201.31	322.14	4.729	
20,900.00	10,252.00	10,275.03	10,252.00	89.63	242.77	-90.00	11,185.51	-2,242.09	1,479.90	1,155.17	324.73	4.557	
21,000.00	10,252.00	10,275.03	10,252.00	90.33	242.77	-90.00	11,185.51	-2,242.09	1,441.99	1,114.74	327.25	4.406	
21,100.00	10,252.00	10,275.03	10,252.00	91.04	242.77	-90.00	11,185.51	-2,242.09	1,410.15	1,080.52	329.63	4.278	
21,200.00	10,252.00	10,275.03	10,252.00	91.74	242.77	-90.00	11,185.51	-2,242.09	1,384.83	1,053.01	331.81	4.173	
21,300.00	10,252.00	10,275.03	10,252.00	92.45	242.77	-90.00	11,185.51	-2,242.09	1,366.37	1,032.64	333.73	4.094	
21,400.00	10,252.00	10,275.03	10,252.00	93.15	242.77	-90.00	11,185.51	-2,242.09	1,355.05	1,019.74	335.31	4.041	
21,500.00	10,252.00	10,275.03	10,252.00	93.86	242.77	-90.00	11,185.51	-2,242.09	1,351.06	1,014.54	336.52	4.015	
21,503.95	10,252.00	10,275.03	10,252.00	93.89	242.77	-90.00	11,185.51	-2,242.09	1,351.06	1,014.50	336.56	4.014	CC, ES, SF
21,600.00	10,252.00	10,275.03	10,252.00	94.57	242.77	-90.00	11,185.51	-2,242.09	1,354.47	1,017.14	337.33	4.015	
21,700.00	10,252.00	10,275.03	10,252.00	95.28	242.77	-90.00	11,185.51	-2,242.09	1,365.21	1,027.50	337.71	4.042	
21,800.00	10,252.00	10,275.03	10,252.00	95.99	242.77	-90.00	11,185.51	-2,242.09	1,383.12	1,045.41	337.70	4.096	
21,900.00	10,252.00	10,275.03	10,252.00	96.70	242.77	-90.00	11,185.51	-2,242.09	1,407.91	1,070.59	337.32	4.174	
22,000.00	10,252.00	10,275.03	10,252.00	97.41	242.77	-90.00	11,185.51	-2,242.09	1,439.25	1,102.63	336.62	4.276	
22,100.00	10,252.00	10,275.03	10,252.00	98.13	242.77	-90.00	11,185.51	-2,242.09	1,476.70	1,141.06	335.64	4.400	
22,200.00	10,252.00	10,275.03	10,252.00	98.84	242.77	-90.00	11,185.51	-2,242.09	1,519.82	1,185.37	334.45	4.544	
22,300.00	10,252.00	10,275.03	10,252.00	99.55	242.77	-90.00	11,185.51	-2,242.09	1,568.14	1,235.04	333.10	4.708	
22,400.00	10,252.00	10,275.03	10,252.00	100.27	242.77	-90.00	11,185.51	-2,242.09	1,621.19	1,289.55	331.65	4.888	
22,500.00	10,252.00	10,275.03	10,252.00	100.99	242.77	-90.00	11,185.51	-2,242.09	1,678.54	1,348.41	330.13	5.085	
22,600.00	10,252.00	10,275.03	10,252.00	101.70	242.77	-90.00	11,185.51	-2,242.09	1,739.74	1,411.16	328.58	5.295	
22,700.00	10,252.00	10,275.03	10,252.00	102.42	242.77	-90.00	11,185.51	-2,242.09	1,804.41	1,477.38	327.03	5.518	
22,800.00	10,252.00	10,275.03	10,252.00	103.14	242.77	-90.00	11,185.51	-2,242.09	1,872.19	1,546.69	325.51	5.752	
22,900.00	10,252.00	10,275.03	10,252.00	103.86	242.77	-90.00	11,185.51	-2,242.09	1,942.76	1,618.74	324.02	5.996	
23,000.00	10,252.00	10,275.03	10,252.00	104.58	242.77	-90.00	11,185.51	-2,242.09	2,015.82	1,693.23	322.59	6.249	
23,100.00	10,252.00	10,275.03	10,252.00	105.30	242.77	-90.00	11,185.51	-2,242.09	2,091.11	1,769.89	321.22	6.510	
23,200.00	10,252.00	10,275.03	10,252.00	106.02	242.77	-90.00	11,185.51	-2,242.09	2,168.40	1,848.49	319.91	6.778	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) LAGUNA DEEP FEDERAL UNIT 004 - P&A - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **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
22,900.00	10,252.00	10,290.21	10,252.00	103.86	221.49	-90.00	14,819.30	-938.80	2,232.19	1,967.03	265.16	8.418	
23,000.00	10,252.00	10,290.21	10,252.00	104.58	221.49	-90.00	14,819.30	-938.80	2,132.20	1,866.94	265.26	8.038	
23,100.00	10,252.00	10,290.21	10,252.00	105.30	221.49	-90.00	14,819.30	-938.80	2,032.21	1,766.84	265.37	7.658	
23,200.00	10,252.00	10,290.21	10,252.00	106.02	221.49	-90.00	14,819.30	-938.80	1,932.22	1,666.75	265.47	7.279	
23,300.00	10,252.00	10,290.21	10,252.00	106.74	221.49	-90.00	14,819.30	-938.80	1,832.24	1,566.66	265.57	6.899	
23,400.00	10,252.00	10,290.21	10,252.00	107.46	221.49	-90.00	14,819.30	-938.80	1,732.25	1,466.57	265.68	6.520	
23,500.00	10,252.00	10,290.21	10,252.00	108.19	221.49	-90.00	14,819.30	-938.80	1,632.27	1,366.49	265.78	6.141	
23,600.00	10,252.00	10,290.21	10,252.00	108.91	221.49	-90.00	14,819.30	-938.80	1,532.29	1,266.40	265.89	5.763	
23,700.00	10,252.00	10,290.21	10,252.00	109.63	221.49	-90.00	14,819.30	-938.80	1,432.31	1,166.32	265.99	5.385	
23,800.00	10,252.00	10,290.21	10,252.00	110.36	221.49	-90.00	14,819.30	-938.80	1,332.34	1,066.24	266.10	5.007	
23,900.00	10,252.00	10,290.21	10,252.00	111.08	221.49	-90.00	14,819.30	-938.80	1,232.37	966.17	266.20	4.629	
24,000.00	10,252.00	10,290.21	10,252.00	111.81	221.49	-90.00	14,819.30	-938.80	1,132.41	866.10	266.31	4.252	
24,100.00	10,252.00	10,290.21	10,252.00	112.54	221.49	-90.00	14,819.30	-938.80	1,032.45	766.03	266.42	3.875	
24,200.00	10,252.00	10,290.21	10,252.00	113.26	221.49	-90.00	14,819.30	-938.80	932.50	665.98	266.53	3.499	
24,300.00	10,252.00	10,290.21	10,252.00	113.99	221.49	-90.00	14,819.30	-938.80	832.57	565.93	266.64	3.122	
24,400.00	10,252.00	10,290.21	10,252.00	114.72	221.49	-90.00	14,819.30	-938.80	732.65	465.90	266.75	2.747	
24,500.00	10,252.00	10,290.21	10,252.00	115.45	221.49	-90.00	14,819.30	-938.80	632.76	365.88	266.88	2.371	
24,600.00	10,252.00	10,290.21	10,252.00	116.18	221.49	-90.00	14,819.30	-938.80	532.91	265.87	267.03	1.996	
24,700.00	10,252.00	10,290.21	10,252.00	116.91	221.49	-90.00	14,819.30	-938.80	433.13	165.88	267.25	1.621	
24,800.00	10,252.00	10,290.21	10,252.00	117.64	221.49	-90.00	14,819.30	-938.80	333.48	65.86	267.62	1.246	Level 2
24,900.00	10,252.00	10,290.21	10,252.00	118.37	221.49	-90.00	14,819.30	-938.80	234.12	-34.41	268.54	0.872	Level 1
25,000.00	10,252.00	10,290.21	10,252.00	119.10	221.49	-90.00	14,819.30	-938.80	135.73	-136.51	272.24	0.499	Level 1
25,100.00	10,252.00	10,290.21	10,252.00	119.83	221.49	-90.00	14,819.30	-938.80	45.05	-264.34	309.38	0.146	Level 1
25,131.96	10,252.00	10,290.21	10,252.00	120.07	221.49	-90.00	14,819.30	-938.80	31.75	-309.73	341.48	0.093	Level 1, CC, ES, SF
25,200.00	10,252.00	10,290.21	10,252.00	120.56	221.49	-90.00	14,819.30	-938.80	75.08	-215.19	290.28	0.259	Level 1
25,300.00	10,252.00	10,290.21	10,252.00	121.30	221.49	-90.00	14,819.30	-938.80	171.01	-103.14	274.15	0.624	Level 1
25,400.00	10,252.00	10,290.21	10,252.00	122.03	221.49	-90.00	14,819.30	-938.80	269.91	-1.23	271.15	0.995	Level 1
25,500.00	10,252.00	10,290.21	10,252.00	122.76	221.49	-90.00	14,819.30	-938.80	369.41	99.27	270.14	1.367	Level 3
25,600.00	10,252.00	10,290.21	10,252.00	123.50	221.49	-90.00	14,819.30	-938.80	469.11	199.40	269.72	1.739	
25,694.09	10,252.00	10,290.21	10,252.00	124.20	221.49	-90.00	14,819.30	-938.80	563.02	287.00	276.02	2.040	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) LAGUNA DEEP UNIT 009 - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,000.00	10,252.00	10,284.30	10,265.20	51.63	204.70	-108.14	6,904.34	-912.41	2,217.36	1,975.32	242.04	9.161	
15,100.00	10,252.00	10,283.66	10,264.56	52.18	204.69	-107.32	6,904.34	-912.41	2,117.38	1,875.31	242.07	8.747	
15,200.00	10,252.00	10,283.03	10,263.93	52.73	204.67	-106.50	6,904.35	-912.41	2,017.40	1,775.29	242.11	8.333	
15,300.00	10,252.00	10,282.40	10,263.30	53.29	204.66	-105.67	6,904.35	-912.41	1,917.42	1,675.28	242.14	7.919	
15,400.00	10,252.00	10,281.78	10,262.67	53.85	204.65	-104.85	6,904.35	-912.41	1,817.45	1,575.27	242.17	7.505	
15,500.00	10,252.00	10,281.16	10,262.05	54.42	204.63	-104.02	6,904.36	-912.41	1,717.48	1,475.27	242.21	7.091	
15,600.00	10,252.00	10,280.54	10,261.44	54.99	204.62	-103.19	6,904.36	-912.41	1,617.51	1,375.26	242.24	6.677	
15,700.00	10,252.00	10,279.93	10,260.83	55.57	204.61	-102.36	6,904.36	-912.41	1,517.54	1,275.26	242.28	6.264	
15,800.00	10,252.00	10,279.32	10,260.22	56.15	204.60	-101.54	6,904.37	-912.41	1,417.58	1,175.27	242.31	5.850	
15,900.00	10,252.00	10,278.72	10,259.61	56.74	204.58	-100.71	6,904.37	-912.41	1,317.63	1,075.28	242.35	5.437	
16,000.00	10,252.00	10,278.12	10,259.01	57.33	204.57	-99.88	6,904.37	-912.41	1,217.68	975.30	242.38	5.024	
16,100.00	10,252.00	10,277.52	10,258.42	57.92	204.56	-99.06	6,904.38	-912.41	1,117.74	875.32	242.42	4.611	
16,200.00	10,252.00	10,276.93	10,257.83	58.52	204.54	-98.23	6,904.38	-912.41	1,017.81	775.36	242.45	4.198	
16,300.00	10,252.00	10,276.34	10,257.24	59.12	204.53	-97.41	6,904.38	-912.41	917.90	675.42	242.49	3.785	
16,400.00	10,252.00	10,275.76	10,256.65	59.73	204.52	-96.59	6,904.39	-912.41	818.01	575.49	242.52	3.373	
16,500.00	10,252.00	10,275.17	10,256.07	60.34	204.51	-95.78	6,904.39	-912.41	718.15	475.60	242.55	2.961	
16,600.00	10,252.00	10,274.60	10,255.49	60.95	204.49	-94.96	6,904.39	-912.41	618.33	375.75	242.59	2.549	
16,700.00	10,252.00	10,274.02	10,254.92	61.57	204.48	-94.15	6,904.40	-912.41	518.59	275.97	242.62	2.137	
16,800.00	10,252.00	10,273.45	10,254.35	62.19	204.47	-93.34	6,904.40	-912.41	418.97	176.29	242.67	1.726	
16,900.00	10,252.00	10,272.89	10,253.78	62.82	204.46	-92.54	6,904.40	-912.41	319.57	76.80	242.78	1.316	Level 3
17,000.00	10,252.00	10,272.32	10,253.22	63.44	204.45	-91.74	6,904.41	-912.41	220.73	-22.37	243.10	0.908	Level 1
17,100.00	10,252.00	10,271.76	10,252.66	64.07	204.43	-90.94	6,904.41	-912.41	123.77	-121.08	244.84	0.505	Level 1
17,200.00	10,252.00	10,271.21	10,252.11	64.71	204.42	-90.15	6,904.41	-912.41	43.73	-220.73	264.45	0.165	Level 1
17,217.03	10,252.00	10,271.11	10,252.01	64.81	204.42	-90.02	6,904.41	-912.41	40.27	-228.82	269.09	0.150	Level 1, CC, ES, SF
17,300.00	10,252.00	10,270.66	10,251.55	65.34	204.41	-89.37	6,904.42	-912.41	92.22	-159.14	251.37	0.367	Level 1
17,400.00	10,252.00	10,270.11	10,251.01	65.98	204.40	-88.59	6,904.42	-912.41	187.35	-58.72	246.06	0.761	Level 1
17,500.00	10,252.00	10,269.56	10,250.46	66.62	204.39	-87.81	6,904.42	-912.41	285.82	40.97	244.85	1.167	Level 2
17,600.00	10,252.00	10,269.02	10,249.92	67.27	204.38	-87.04	6,904.43	-912.41	385.07	140.68	244.40	1.576	
17,700.00	10,252.00	10,268.48	10,249.38	67.91	204.36	-86.28	6,904.43	-912.41	484.64	240.44	244.20	1.985	
17,800.00	10,252.00	10,267.94	10,248.84	68.56	204.35	-85.52	6,904.43	-912.41	584.35	340.25	244.10	2.394	
17,900.00	10,252.00	10,267.41	10,248.31	69.21	204.34	-84.77	6,904.43	-912.41	684.14	440.09	244.06	2.803	
18,000.00	10,252.00	10,266.88	10,247.78	69.87	204.33	-84.02	6,904.44	-912.41	783.99	539.94	244.05	3.212	
18,100.00	10,252.00	10,266.36	10,247.26	70.52	204.32	-83.28	6,904.44	-912.41	883.87	639.82	244.06	3.622	
18,200.00	10,252.00	10,265.83	10,246.73	71.18	204.31	-82.55	6,904.44	-912.41	983.78	739.70	244.08	4.031	
18,300.00	10,252.00	10,265.32	10,246.21	71.84	204.30	-81.82	6,904.45	-912.41	1,083.70	839.59	244.11	4.439	
18,400.00	10,252.00	10,264.80	10,245.70	72.51	204.29	-81.11	6,904.45	-912.41	1,183.64	939.48	244.15	4.848	
18,500.00	10,252.00	10,264.29	10,245.18	73.17	204.28	-80.39	6,904.45	-912.41	1,283.58	1,039.38	244.20	5.256	
18,600.00	10,252.00	10,263.78	10,244.67	73.84	204.26	-79.69	6,904.45	-912.41	1,383.53	1,139.29	244.25	5.664	
18,700.00	10,252.00	10,263.27	10,244.17	74.51	204.25	-78.99	6,904.46	-912.41	1,483.49	1,239.19	244.30	6.072	
18,800.00	10,252.00	10,262.76	10,243.66	75.18	204.24	-78.30	6,904.46	-912.41	1,583.46	1,339.10	244.36	6.480	
18,900.00	10,252.00	10,262.26	10,243.16	75.85	204.23	-77.62	6,904.46	-912.41	1,683.43	1,439.01	244.42	6.888	
19,000.00	10,252.00	10,261.76	10,242.66	76.53	204.22	-76.95	6,904.46	-912.41	1,783.40	1,538.92	244.48	7.295	
19,100.00	10,252.00	10,261.27	10,242.17	77.20	204.21	-76.28	6,904.47	-912.41	1,883.37	1,638.83	244.54	7.702	
19,200.00	10,252.00	10,260.78	10,241.67	77.88	204.20	-75.62	6,904.47	-912.41	1,983.35	1,738.74	244.61	8.108	
19,300.00	10,252.00	10,260.29	10,241.19	78.56	204.19	-74.97	6,904.47	-912.41	2,083.33	1,838.65	244.67	8.515	
19,400.00	10,252.00	10,259.80	10,240.70	79.24	204.18	-74.33	6,904.47	-912.41	2,183.31	1,938.57	244.74	8.921	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) LAGUNA DEEP UNIT 010 - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **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
19,800.00	10,252.00	10,267.34	10,252.00	81.98	253.22	90.00	11,545.36	-247.85	2,153.77	1,852.76	301.01	7.155	
19,900.00	10,252.00	10,267.34	10,252.00	82.67	253.22	90.00	11,545.36	-247.85	2,058.58	1,756.84	301.74	6.822	
20,000.00	10,252.00	10,267.34	10,252.00	83.36	253.22	90.00	11,545.36	-247.85	1,963.86	1,661.32	302.54	6.491	
20,100.00	10,252.00	10,267.34	10,252.00	84.05	253.22	90.00	11,545.36	-247.85	1,869.69	1,566.25	303.44	6.162	
20,200.00	10,252.00	10,267.34	10,252.00	84.75	253.22	90.00	11,545.36	-247.85	1,776.16	1,471.72	304.44	5.834	
20,300.00	10,252.00	10,267.34	10,252.00	85.44	253.22	90.00	11,545.36	-247.85	1,683.37	1,377.79	305.58	5.509	
20,400.00	10,252.00	10,267.34	10,252.00	86.14	253.22	90.00	11,545.36	-247.85	1,591.46	1,284.59	306.87	5.186	
20,500.00	10,252.00	10,267.34	10,252.00	86.83	253.22	90.00	11,545.36	-247.85	1,500.58	1,192.25	308.33	4.867	
20,600.00	10,252.00	10,267.34	10,252.00	87.53	253.22	90.00	11,545.36	-247.85	1,410.94	1,100.94	310.00	4.551	
20,700.00	10,252.00	10,267.34	10,252.00	88.23	253.22	90.00	11,545.36	-247.85	1,322.78	1,010.86	311.91	4.241	
20,800.00	10,252.00	10,267.34	10,252.00	88.93	253.22	90.00	11,545.36	-247.85	1,236.42	922.31	314.11	3.936	
20,900.00	10,252.00	10,267.34	10,252.00	89.63	253.22	90.00	11,545.36	-247.85	1,152.28	835.64	316.64	3.639	
21,000.00	10,252.00	10,267.34	10,252.00	90.33	253.22	90.00	11,545.36	-247.85	1,070.86	751.33	319.53	3.351	
21,100.00	10,252.00	10,267.34	10,252.00	91.04	253.22	90.00	11,545.36	-247.85	992.84	670.01	322.84	3.075	
21,200.00	10,252.00	10,267.34	10,252.00	91.74	253.22	90.00	11,545.36	-247.85	919.10	592.53	326.57	2.814	
21,300.00	10,252.00	10,267.34	10,252.00	92.45	253.22	90.00	11,545.36	-247.85	850.73	520.03	330.70	2.573	
21,400.00	10,252.00	10,267.34	10,252.00	93.15	253.22	90.00	11,545.36	-247.85	789.14	454.01	335.13	2.355	
21,500.00	10,252.00	10,267.34	10,252.00	93.86	253.22	90.00	11,545.36	-247.85	736.03	396.40	339.63	2.167	
21,600.00	10,252.00	10,267.34	10,252.00	94.57	253.22	90.00	11,545.36	-247.85	693.35	349.53	343.83	2.017	
21,700.00	10,252.00	10,267.34	10,252.00	95.28	253.22	90.00	11,545.36	-247.85	663.13	315.94	347.19	1.910	
21,800.00	10,252.00	10,267.34	10,252.00	95.99	253.22	90.00	11,545.36	-247.85	647.10	297.94	349.16	1.853	
21,855.01	10,252.00	10,267.34	10,252.00	96.38	253.22	90.00	11,545.36	-247.85	644.76	295.25	349.51	1.845	CC, ES, SF
21,900.00	10,252.00	10,267.34	10,252.00	96.70	253.22	90.00	11,545.36	-247.85	646.32	296.96	349.37	1.850	
22,000.00	10,252.00	10,267.34	10,252.00	97.41	253.22	90.00	11,545.36	-247.85	660.86	313.08	347.78	1.900	
22,100.00	10,252.00	10,267.34	10,252.00	98.13	253.22	90.00	11,545.36	-247.85	689.73	344.98	344.75	2.001	
22,200.00	10,252.00	10,267.34	10,252.00	98.84	253.22	90.00	11,545.36	-247.85	731.25	390.43	340.83	2.146	
22,300.00	10,252.00	10,267.34	10,252.00	99.55	253.22	90.00	11,545.36	-247.85	783.41	446.88	336.53	2.328	
22,400.00	10,252.00	10,267.34	10,252.00	100.27	253.22	90.00	11,545.36	-247.85	844.24	511.96	332.27	2.541	
22,500.00	10,252.00	10,267.34	10,252.00	100.99	253.22	90.00	11,545.36	-247.85	911.99	583.70	328.29	2.778	
22,600.00	10,252.00	10,267.34	10,252.00	101.70	253.22	90.00	11,545.36	-247.85	985.26	660.55	324.71	3.034	
22,700.00	10,252.00	10,267.34	10,252.00	102.42	253.22	90.00	11,545.36	-247.85	1,062.89	741.34	321.55	3.306	
22,800.00	10,252.00	10,267.34	10,252.00	103.14	253.22	90.00	11,545.36	-247.85	1,144.00	825.20	318.80	3.588	
22,900.00	10,252.00	10,267.34	10,252.00	103.86	253.22	90.00	11,545.36	-247.85	1,227.90	911.47	316.43	3.880	
23,000.00	10,252.00	10,267.34	10,252.00	104.58	253.22	90.00	11,545.36	-247.85	1,314.05	999.66	314.39	4.180	
23,100.00	10,252.00	10,267.34	10,252.00	105.30	253.22	90.00	11,545.36	-247.85	1,402.04	1,089.40	312.65	4.484	
23,200.00	10,252.00	10,267.34	10,252.00	106.02	253.22	90.00	11,545.36	-247.85	1,491.55	1,180.40	311.15	4.794	
23,300.00	10,252.00	10,267.34	10,252.00	106.74	253.22	90.00	11,545.36	-247.85	1,582.32	1,272.45	309.86	5.107	
23,400.00	10,252.00	10,267.34	10,252.00	107.46	253.22	90.00	11,545.36	-247.85	1,674.13	1,365.38	308.76	5.422	
23,500.00	10,252.00	10,267.34	10,252.00	108.19	253.22	90.00	11,545.36	-247.85	1,766.84	1,459.03	307.81	5.740	
23,600.00	10,252.00	10,267.34	10,252.00	108.91	253.22	90.00	11,545.36	-247.85	1,860.30	1,553.31	306.99	6.060	
23,700.00	10,252.00	10,267.34	10,252.00	109.63	253.22	90.00	11,545.36	-247.85	1,954.41	1,648.13	306.28	6.381	
23,800.00	10,252.00	10,267.34	10,252.00	110.36	253.22	90.00	11,545.36	-247.85	2,049.08	1,743.41	305.67	6.703	
23,900.00	10,252.00	10,267.34	10,252.00	111.08	253.22	90.00	11,545.36	-247.85	2,144.23	1,839.08	305.15	7.027	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) LAGUNA DEEP UNIT 021H - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 25-MWD OWSG Rev5, 5410-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
17,900.00	10,252.00	13,567.29	9,358.15	69.21	240.98	-6.44	9,595.85	-984.88	2,200.97	1,937.93	263.04	8.367	
18,000.00	10,252.00	13,564.59	9,358.03	69.87	240.95	-6.27	9,595.94	-982.19	2,110.10	1,848.34	261.76	8.061	
18,100.00	10,252.00	13,561.94	9,357.91	70.52	240.92	-6.10	9,596.03	-979.54	2,020.08	1,759.78	260.30	7.760	
18,200.00	10,252.00	13,559.34	9,357.78	71.18	240.89	-5.93	9,596.12	-976.94	1,931.04	1,672.40	258.64	7.466	
18,300.00	10,252.00	13,556.77	9,357.66	71.84	240.87	-5.77	9,596.21	-974.38	1,843.13	1,586.40	256.73	7.179	
18,400.00	10,252.00	13,554.25	9,357.53	72.51	240.84	-5.61	9,596.29	-971.86	1,756.50	1,501.98	254.53	6.901	
18,500.00	10,252.00	13,551.77	9,357.41	73.17	240.81	-5.45	9,596.37	-969.38	1,671.37	1,419.41	251.96	6.634	
18,600.00	10,252.00	13,549.32	9,357.28	73.84	240.78	-5.30	9,596.45	-966.94	1,587.96	1,339.01	248.95	6.379	
18,700.00	10,252.00	13,546.91	9,357.16	74.51	240.76	-5.14	9,596.53	-964.54	1,506.57	1,261.17	245.40	6.139	
18,800.00	10,252.00	13,544.54	9,357.03	75.18	240.73	-4.99	9,596.61	-962.17	1,427.54	1,186.34	241.20	5.919	
18,900.00	10,252.00	13,542.21	9,356.91	75.85	240.71	-4.84	9,596.68	-959.84	1,351.29	1,115.11	236.18	5.721	
19,000.00	10,252.00	13,539.92	9,356.79	76.53	240.68	-4.70	9,596.75	-957.55	1,278.31	1,048.14	230.18	5.554	
19,100.00	10,252.00	13,537.65	9,356.66	77.20	240.66	-4.55	9,596.83	-955.29	1,209.20	986.24	222.96	5.423	
19,200.00	10,252.00	13,544.05	9,357.13	77.88	240.72	-4.96	9,596.65	-961.67	1,144.62	930.11	214.50	5.336	
19,300.00	10,252.00	13,540.12	9,356.87	78.56	240.68	-4.71	9,596.76	-957.75	1,085.47	881.36	204.11	5.318	
19,400.00	10,252.00	13,536.09	9,356.61	79.24	240.64	-4.45	9,596.88	-953.73	1,032.63	840.83	191.80	5.384	
19,500.00	10,252.00	13,531.96	9,356.36	79.92	240.59	-4.19	9,597.01	-949.61	987.11	809.65	177.45	5.563	
19,600.00	10,252.00	13,527.73	9,356.10	80.61	240.55	-3.92	9,597.13	-945.39	949.96	788.71	161.25	5.891	
19,700.00	10,252.00	13,523.40	9,355.85	81.30	240.50	-3.64	9,597.27	-941.07	922.19	778.18	144.01	6.404	
19,800.00	10,252.00	13,518.95	9,355.60	81.98	240.45	-3.36	9,597.40	-936.63	904.67	776.52	128.15	7.059	
19,900.00	10,252.00	13,514.39	9,355.35	82.67	240.40	-3.07	9,597.54	-932.08	897.99	778.07	119.92	7.488	
19,910.24	10,252.00	13,513.91	9,355.33	82.74	240.40	-3.04	9,597.56	-931.60	897.94	778.06	119.87	7.491	CC
20,000.00	10,252.00	13,509.71	9,355.11	83.36	240.35	-2.77	9,597.69	-927.40	902.41	775.99	126.42	7.138	
20,100.00	10,252.00	13,504.90	9,354.87	84.05	240.30	-2.46	9,597.84	-922.61	917.74	774.70	143.04	6.416	ES
20,200.00	10,252.00	13,499.97	9,354.63	84.75	240.25	-2.15	9,598.00	-917.68	943.47	781.27	162.20	5.817	
20,300.00	10,252.00	13,494.90	9,354.40	85.44	240.20	-1.83	9,598.17	-912.62	978.78	798.24	180.54	5.421	
20,400.00	10,252.00	13,489.69	9,354.18	86.14	240.14	-1.49	9,598.34	-907.42	1,022.66	825.76	196.91	5.194	
20,500.00	10,252.00	13,484.33	9,353.96	86.83	240.08	-1.15	9,598.52	-902.07	1,074.08	863.08	210.99	5.091	
20,600.00	10,252.00	13,478.83	9,353.75	87.53	240.02	-0.80	9,598.70	-896.57	1,132.00	909.13	222.86	5.079	SF
20,700.00	10,252.00	13,473.17	9,353.55	88.23	239.96	-0.44	9,598.90	-890.92	1,195.47	962.72	232.75	5.136	
20,800.00	10,252.00	13,467.34	9,353.36	88.93	239.90	-0.07	9,599.10	-885.09	1,263.67	1,022.75	240.92	5.245	
20,900.00	10,252.00	13,461.34	9,353.18	89.63	239.83	0.31	9,599.31	-879.10	1,335.86	1,088.20	247.66	5.394	
21,000.00	10,252.00	13,455.15	9,353.02	90.33	239.77	0.71	9,599.53	-872.93	1,411.44	1,158.22	253.21	5.574	
21,100.00	10,252.00	13,448.79	9,352.86	91.04	239.70	1.11	9,599.76	-866.56	1,489.88	1,232.07	257.81	5.779	
21,200.00	10,252.00	13,442.22	9,352.73	91.74	239.63	1.53	9,600.00	-860.00	1,570.76	1,309.15	261.61	6.004	
21,300.00	10,252.00	13,437.00	9,352.63	92.45	239.57	1.86	9,600.19	-854.79	1,653.72	1,388.93	264.80	6.245	
21,400.00	10,252.00	13,433.23	9,352.56	93.15	239.53	2.10	9,600.33	-851.02	1,738.47	1,470.98	267.49	6.499	
21,500.00	10,252.00	13,430.11	9,352.51	93.86	239.50	2.30	9,600.45	-847.91	1,824.76	1,554.99	269.76	6.764	
21,600.00	10,252.00	13,426.96	9,352.45	94.57	239.47	2.50	9,600.57	-844.75	1,912.38	1,640.68	271.69	7.039	
21,700.00	10,252.00	13,423.76	9,352.39	95.28	239.43	2.70	9,600.69	-841.56	2,001.15	1,727.82	273.33	7.321	
21,800.00	10,252.00	13,420.52	9,352.32	95.99	239.40	2.91	9,600.81	-838.32	2,090.93	1,816.19	274.74	7.611	
21,900.00	10,252.00	13,417.23	9,352.26	96.70	239.36	3.12	9,600.94	-835.04	2,181.60	1,905.65	275.95	7.906	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) LAGUNA DEEP UNIT 35 FEDERAL 001 - P&A - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 100-NS-GYRO-MS, 8999-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
15,600.00	10,252.00	10,947.64	9,337.41	54.99	42.88	-0.39	7,229.83	-879.87	2,146.87	2,069.13	77.74	27.615	
15,700.00	10,252.00	10,946.16	9,337.45	55.57	42.84	-0.30	7,229.86	-878.40	2,056.84	1,979.10	77.74	26.459	
15,800.00	10,252.00	10,944.65	9,337.49	56.15	42.81	-0.21	7,229.89	-876.89	1,967.77	1,890.03	77.74	25.311	
15,900.00	10,252.00	10,943.12	9,337.54	56.74	42.77	-0.11	7,229.93	-875.36	1,879.80	1,802.03	77.77	24.172	
16,000.00	10,252.00	10,941.55	9,337.58	57.33	42.74	-0.01	7,229.96	-873.79	1,793.09	1,715.28	77.81	23.045	
16,100.00	10,252.00	10,939.95	9,337.62	57.92	42.70	0.09	7,229.99	-872.19	1,707.83	1,629.96	77.87	21.931	
16,200.00	10,252.00	10,938.32	9,337.67	58.52	42.67	0.19	7,230.03	-870.56	1,624.25	1,546.29	77.97	20.833	
16,300.00	10,252.00	10,936.65	9,337.72	59.12	42.63	0.29	7,230.07	-868.89	1,542.63	1,464.54	78.09	19.755	
16,400.00	10,252.00	10,934.95	9,337.77	59.73	42.59	0.40	7,230.10	-867.19	1,463.29	1,385.04	78.24	18.702	
16,500.00	10,252.00	10,933.21	9,337.82	60.34	42.55	0.51	7,230.14	-865.45	1,386.61	1,308.18	78.44	17.678	
16,600.00	10,252.00	10,931.43	9,337.87	60.95	42.51	0.62	7,230.18	-863.68	1,313.08	1,234.42	78.67	16.692	
16,700.00	10,252.00	10,929.61	9,337.92	61.57	42.47	0.73	7,230.22	-861.86	1,243.25	1,164.31	78.93	15.750	
16,800.00	10,252.00	10,927.79	9,337.98	62.19	42.43	0.85	7,230.26	-860.04	1,177.77	1,098.54	79.23	14.865	
16,900.00	10,252.00	10,926.00	9,338.03	62.82	42.38	0.96	7,230.30	-858.25	1,117.41	1,037.85	79.56	14.045	
17,000.00	10,252.00	10,924.22	9,338.08	63.44	42.34	1.07	7,230.34	-856.47	1,063.05	983.15	79.90	13.305	
17,100.00	10,252.00	10,922.47	9,338.14	64.07	42.30	1.18	7,230.38	-854.72	1,015.64	935.39	80.25	12.656	
17,200.00	10,252.00	10,920.73	9,338.19	64.71	42.27	1.29	7,230.42	-852.99	976.20	895.57	80.64	12.106	
17,300.00	10,252.00	10,919.01	9,338.24	65.34	42.23	1.40	7,230.46	-851.27	945.73	864.64	81.09	11.663	
17,400.00	10,252.00	10,917.31	9,338.29	65.98	42.19	1.50	7,230.50	-849.57	925.12	843.42	81.70	11.323	
17,500.00	10,252.00	10,915.63	9,338.33	66.62	42.15	1.61	7,230.53	-847.89	915.03	832.47	82.56	11.083	
17,542.87	10,252.00	10,914.92	9,338.36	66.90	42.13	1.65	7,230.55	-847.18	914.02	831.01	83.02	11.010	CC, ES
17,600.00	10,252.00	10,913.97	9,338.38	67.27	42.11	1.71	7,230.57	-846.23	915.81	832.10	83.71	10.941	
17,700.00	10,252.00	10,912.33	9,338.43	67.91	42.07	1.82	7,230.61	-844.59	927.43	842.34	85.09	10.900	SF
17,800.00	10,252.00	10,910.70	9,338.48	68.56	42.04	1.92	7,230.64	-842.96	949.49	862.95	86.54	10.971	
17,900.00	10,252.00	10,909.09	9,338.52	69.21	42.00	2.02	7,230.68	-841.35	981.30	893.38	87.91	11.162	
18,000.00	10,252.00	10,907.49	9,338.57	69.87	41.96	2.12	7,230.71	-839.76	1,021.93	932.85	89.08	11.472	
18,100.00	10,252.00	10,905.92	9,338.61	70.52	41.93	2.22	7,230.74	-838.18	1,070.39	980.41	89.98	11.896	
18,200.00	10,252.00	10,904.36	9,338.66	71.18	41.89	2.32	7,230.78	-836.62	1,125.67	1,035.04	90.63	12.421	
18,300.00	10,252.00	10,902.81	9,338.70	71.84	41.86	2.41	7,230.81	-835.08	1,186.81	1,095.77	91.04	13.036	
18,400.00	10,252.00	10,901.28	9,338.74	72.51	41.82	2.51	7,230.84	-833.55	1,252.96	1,161.68	91.27	13.728	
18,500.00	10,252.00	10,899.77	9,338.79	73.17	41.79	2.60	7,230.88	-832.04	1,323.36	1,232.00	91.36	14.485	
18,600.00	10,252.00	10,898.00	9,338.84	73.84	41.75	2.72	7,230.91	-830.27	1,397.37	1,306.04	91.33	15.300	
18,700.00	10,252.00	10,898.00	9,338.84	74.51	41.75	2.72	7,230.91	-830.27	1,474.45	1,383.19	91.27	16.155	
18,800.00	10,252.00	10,898.00	9,338.84	75.18	41.75	2.72	7,230.91	-830.27	1,554.15	1,463.00	91.15	17.050	
18,900.00	10,252.00	10,898.00	9,338.84	75.85	41.75	2.72	7,230.91	-830.27	1,636.08	1,545.07	91.01	17.977	
19,000.00	10,252.00	10,893.17	9,338.97	76.53	41.64	3.02	7,231.01	-825.45	1,719.91	1,629.17	90.73	18.956	
19,100.00	10,252.00	10,891.96	9,339.00	77.20	41.61	3.09	7,231.04	-824.23	1,805.39	1,714.86	90.53	19.942	
19,200.00	10,252.00	10,890.76	9,339.03	77.88	41.59	3.17	7,231.06	-823.04	1,892.29	1,801.97	90.33	20.949	
19,300.00	10,252.00	10,889.59	9,339.06	78.56	41.56	3.24	7,231.08	-821.86	1,980.43	1,890.31	90.13	21.974	
19,400.00	10,252.00	10,888.43	9,339.10	79.24	41.53	3.31	7,231.11	-820.71	2,069.65	1,979.72	89.93	23.013	
19,500.00	10,252.00	10,887.29	9,339.13	79.92	41.51	3.39	7,231.13	-819.57	2,159.81	2,070.07	89.75	24.066	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - (O) LAGUNA DEEP UNIT 35 FEDERAL 002H - OH - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 100-r.5 GYRO-NS, 8865-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
14,000.00	10,252.00	10,816.87	9,412.60	46.51	48.20	-1.43	5,704.91	-887.80	2,185.19	2,105.01	80.18	27.255	
14,100.00	10,252.00	10,815.71	9,412.62	46.99	48.18	-1.35	5,704.93	-886.65	2,093.22	2,013.28	79.94	26.184	
14,200.00	10,252.00	10,814.54	9,412.64	47.48	48.16	-1.27	5,704.96	-885.47	2,002.02	1,922.32	79.69	25.121	
14,300.00	10,252.00	10,813.34	9,412.66	47.98	48.14	-1.19	5,704.99	-884.27	1,911.70	1,832.27	79.42	24.070	
14,400.00	10,252.00	10,812.11	9,412.68	48.48	48.12	-1.11	5,705.02	-883.04	1,822.38	1,743.26	79.12	23.032	
14,500.00	10,252.00	10,810.85	9,412.70	48.99	48.09	-1.02	5,705.04	-881.79	1,734.24	1,655.44	78.80	22.008	
14,600.00	10,252.00	10,809.57	9,412.72	49.50	48.07	-0.93	5,705.07	-880.50	1,647.44	1,569.00	78.45	21.001	
14,700.00	10,252.00	10,808.26	9,412.74	50.03	48.05	-0.84	5,705.11	-879.19	1,562.23	1,484.17	78.06	20.014	
14,800.00	10,252.00	10,803.00	9,412.82	50.56	47.95	-0.48	5,705.23	-873.94	1,478.87	1,401.31	77.56	19.068	
14,900.00	10,252.00	10,803.00	9,412.82	51.09	47.95	-0.48	5,705.23	-873.94	1,397.68	1,320.56	77.12	18.124	
15,000.00	10,252.00	10,803.00	9,412.82	51.63	47.95	-0.48	5,705.23	-873.94	1,319.08	1,242.45	76.63	17.214	
15,100.00	10,252.00	10,802.54	9,412.82	52.18	47.94	-0.45	5,705.24	-873.47	1,243.56	1,167.48	76.08	16.346	
15,200.00	10,252.00	10,800.32	9,412.85	52.73	47.90	-0.30	5,705.30	-871.26	1,171.70	1,096.27	75.44	15.533	
15,300.00	10,252.00	10,798.11	9,412.89	53.29	47.86	-0.15	5,705.35	-869.05	1,104.24	1,029.51	74.73	14.776	
15,400.00	10,252.00	10,795.90	9,412.92	53.85	47.82	0.00	5,705.40	-866.84	1,042.00	968.05	73.96	14.089	
15,500.00	10,252.00	10,793.69	9,412.95	54.42	47.78	0.15	5,705.46	-864.62	986.00	912.88	73.12	13.484	
15,600.00	10,252.00	10,791.47	9,412.98	54.99	47.74	0.30	5,705.51	-862.41	937.35	865.08	72.27	12.971	
15,700.00	10,252.00	10,789.26	9,413.02	55.57	47.70	0.45	5,705.57	-860.20	897.24	825.78	71.46	12.556	
15,800.00	10,252.00	10,787.05	9,413.05	56.15	47.66	0.60	5,705.62	-857.99	866.85	795.99	70.86	12.233	
15,900.00	10,252.00	10,784.84	9,413.09	56.74	47.62	0.76	5,705.68	-855.78	847.25	776.53	70.72	11.980	
16,000.00	10,252.00	10,782.62	9,413.12	57.33	47.58	0.91	5,705.73	-853.57	839.18	767.86	71.31	11.767	
16,018.11	10,252.00	10,782.22	9,413.13	57.43	47.58	0.93	5,705.74	-853.17	838.98	767.47	71.51	11.732	CC, ES
16,100.00	10,252.00	10,780.41	9,413.16	57.92	47.54	1.06	5,705.78	-851.36	842.97	770.21	72.76	11.586	
16,200.00	10,252.00	10,778.20	9,413.20	58.52	47.50	1.21	5,705.84	-849.14	858.46	783.59	74.87	11.466	
16,300.00	10,252.00	10,764.36	9,413.51	59.12	47.26	2.15	5,706.26	-835.31	885.03	807.82	77.20	11.464	SF
16,400.00	10,252.00	10,761.22	9,413.59	59.73	47.20	2.37	5,706.37	-832.18	921.71	842.14	79.57	11.584	
16,500.00	10,252.00	10,769.43	9,413.35	60.34	47.35	1.81	5,706.05	-840.39	967.47	885.69	81.78	11.830	
16,600.00	10,252.00	10,743.48	9,414.04	60.95	46.88	3.58	5,706.97	-814.46	1,020.92	937.61	83.31	12.254	
16,700.00	10,252.00	10,736.12	9,414.31	61.57	46.75	4.08	5,707.32	-807.11	1,080.92	996.26	84.66	12.767	
16,800.00	10,252.00	10,731.83	9,414.46	62.19	46.68	4.37	5,707.52	-802.83	1,146.51	1,060.77	85.74	13.373	
16,900.00	10,252.00	10,727.40	9,414.62	62.82	46.60	4.67	5,707.74	-798.40	1,216.77	1,130.22	86.55	14.059	
17,000.00	10,252.00	10,722.81	9,414.77	63.44	46.52	4.99	5,707.97	-793.83	1,290.94	1,203.79	87.15	14.813	
17,100.00	10,252.00	10,718.08	9,414.93	64.07	46.44	5.31	5,708.21	-789.10	1,368.39	1,280.81	87.58	15.624	
17,200.00	10,252.00	10,713.17	9,415.09	64.71	46.35	5.64	5,708.46	-784.20	1,448.59	1,360.70	87.89	16.482	
17,300.00	10,252.00	10,708.26	9,415.25	65.34	46.26	5.97	5,708.71	-779.30	1,531.11	1,443.00	88.10	17.379	
17,400.00	10,252.00	10,691.54	9,415.75	65.98	45.97	7.11	5,709.67	-762.61	1,615.57	1,527.50	88.07	18.345	
17,500.00	10,252.00	10,674.66	9,416.21	66.62	45.67	8.24	5,710.81	-745.78	1,701.65	1,613.68	87.97	19.343	
17,600.00	10,252.00	10,668.51	9,416.37	67.27	45.57	8.66	5,711.25	-739.65	1,789.14	1,701.15	87.99	20.333	
17,700.00	10,252.00	10,662.36	9,416.52	67.91	45.46	9.07	5,711.69	-733.52	1,877.86	1,789.88	87.98	21.344	
17,800.00	10,252.00	10,656.21	9,416.67	68.56	45.36	9.48	5,712.13	-727.39	1,967.64	1,879.69	87.95	22.373	
17,900.00	10,252.00	10,650.06	9,416.82	69.21	45.25	9.89	5,712.57	-721.26	2,058.34	1,970.45	87.90	23.418	
18,000.00	10,252.00	10,645.00	9,416.93	69.87	45.16	10.23	5,712.93	-716.21	2,149.85	2,062.00	87.85	24.471	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 222H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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
3,700.00	3,678.60	3,840.83	3,840.54	13.32	13.51	23.79	-246.65	-2,547.92	2,234.45	2,207.83	26.62	83.929	
3,800.00	3,777.86	3,939.11	3,938.52	13.69	13.86	23.84	-249.31	-2,540.68	2,216.10	2,188.76	27.34	81.063	
3,900.00	3,877.11	4,027.12	4,026.25	14.05	14.18	23.89	-251.70	-2,534.21	2,197.77	2,169.75	28.03	78.416	
4,000.00	3,976.36	4,100.00	4,098.98	14.42	14.44	23.93	-253.35	-2,529.71	2,180.55	2,151.87	28.68	76.041	
4,100.00	4,075.62	4,148.87	4,147.80	14.79	14.61	23.98	-254.11	-2,527.66	2,165.12	2,135.87	29.25	74.010	
4,200.00	4,174.87	4,200.00	4,198.91	15.16	14.79	24.03	-254.59	-2,526.36	2,151.61	2,121.78	29.83	72.131	
4,300.00	4,274.12	4,275.22	4,274.12	15.53	15.06	24.13	-254.75	-2,525.92	2,139.89	2,109.42	30.47	70.233	
4,400.00	4,373.38	4,374.47	4,373.38	15.90	15.40	24.26	-254.75	-2,525.92	2,128.75	2,097.57	31.18	68.271	
4,500.00	4,472.63	4,473.73	4,472.63	16.27	15.75	24.40	-254.75	-2,525.92	2,117.62	2,085.73	31.89	66.397	
4,600.00	4,571.89	4,572.98	4,571.89	16.64	16.09	24.53	-254.75	-2,525.92	2,106.51	2,073.90	32.61	64.604	
4,700.00	4,671.14	4,672.23	4,671.14	17.01	16.44	24.67	-254.75	-2,525.92	2,095.40	2,062.08	33.32	62.886	
4,800.00	4,770.39	4,771.49	4,770.39	17.38	16.79	24.81	-254.75	-2,525.92	2,084.31	2,050.28	34.03	61.241	
4,900.00	4,869.65	4,870.74	4,869.65	17.75	17.14	24.95	-254.75	-2,525.92	2,073.23	2,038.48	34.75	59.662	
5,000.00	4,968.90	4,970.00	4,968.90	18.12	17.48	25.09	-254.75	-2,525.92	2,062.17	2,026.70	35.46	58.147	
5,100.00	5,068.15	5,069.25	5,068.15	18.49	17.83	25.24	-254.75	-2,525.92	2,051.12	2,014.94	36.18	56.692	
5,200.00	5,167.41	5,168.50	5,167.41	18.86	18.18	25.38	-254.75	-2,525.92	2,040.08	2,003.18	36.90	55.292	
5,300.00	5,266.86	5,267.96	5,266.86	19.22	18.53	25.43	-254.75	-2,525.92	2,030.67	1,993.06	37.61	53.992	
5,400.00	5,366.61	5,367.71	5,366.61	19.58	18.88	25.46	-254.75	-2,525.92	2,024.42	1,986.10	38.32	52.828	
5,500.00	5,466.55	5,467.65	5,466.55	19.94	19.23	25.47	-254.75	-2,525.92	2,021.32	1,982.29	39.03	51.793	
5,599.66	5,566.21	5,567.30	5,566.21	20.27	19.58	-90.30	-254.75	-2,525.92	2,020.56	1,980.85	39.71	50.883	
5,600.00	5,566.55	5,567.64	5,566.55	20.27	19.58	-90.31	-254.75	-2,525.92	2,020.95	1,981.24	39.71	50.890	
5,700.00	5,666.55	5,667.64	5,666.55	20.60	19.94	-90.31	-254.75	-2,525.92	2,020.95	1,980.56	40.39	50.033	
5,800.00	5,766.55	5,767.64	5,766.55	20.93	20.29	-90.31	-254.75	-2,525.92	2,020.95	1,979.88	41.07	49.203	
5,900.00	5,866.55	5,867.64	5,866.55	21.27	20.64	-90.31	-254.75	-2,525.92	2,020.95	1,979.19	41.76	48.399	
6,000.00	5,966.55	5,967.64	5,966.55	21.60	21.00	-90.31	-254.75	-2,525.92	2,020.95	1,978.51	42.44	47.620	
6,100.00	6,066.55	6,067.64	6,066.55	21.93	21.35	-90.31	-254.75	-2,525.92	2,020.95	1,977.83	43.12	46.864	
6,200.00	6,166.55	6,167.64	6,166.55	22.27	21.70	-90.31	-254.75	-2,525.92	2,020.95	1,977.14	43.81	46.130	
6,300.00	6,266.55	6,267.64	6,266.55	22.60	22.06	-90.31	-254.75	-2,525.92	2,020.95	1,976.45	44.50	45.418	
6,400.00	6,366.55	6,367.64	6,366.55	22.94	22.41	-90.31	-254.75	-2,525.92	2,020.95	1,975.77	45.18	44.727	
6,500.00	6,466.55	6,467.64	6,466.55	23.27	22.76	-90.31	-254.75	-2,525.92	2,020.95	1,975.08	45.87	44.056	
6,600.00	6,566.55	6,567.64	6,566.55	23.61	23.12	-90.31	-254.75	-2,525.92	2,020.95	1,974.39	46.56	43.404	
6,700.00	6,666.55	6,667.64	6,666.55	23.95	23.47	-90.31	-254.75	-2,525.92	2,020.95	1,973.70	47.25	42.770	
6,800.00	6,766.55	6,767.64	6,766.55	24.28	23.83	-90.31	-254.75	-2,525.92	2,020.95	1,973.01	47.94	42.154	
6,900.00	6,866.55	6,867.64	6,866.55	24.62	24.18	-90.31	-254.75	-2,525.92	2,020.95	1,972.31	48.63	41.554	
7,000.00	6,966.55	6,967.64	6,966.55	24.96	24.53	-90.31	-254.75	-2,525.92	2,020.95	1,971.62	49.33	40.971	
7,100.00	7,066.55	7,067.64	7,066.55	25.30	24.89	-90.31	-254.75	-2,525.92	2,020.95	1,970.93	50.02	40.403	
7,200.00	7,166.55	7,167.64	7,166.55	25.64	25.24	-90.31	-254.75	-2,525.92	2,020.95	1,970.24	50.71	39.851	
7,300.00	7,266.55	7,267.64	7,266.55	25.98	25.60	-90.31	-254.75	-2,525.92	2,020.95	1,969.54	51.41	39.312	
7,400.00	7,366.55	7,367.64	7,366.55	26.33	25.95	-90.31	-254.75	-2,525.92	2,020.95	1,968.85	52.10	38.788	
7,500.00	7,466.55	7,467.64	7,466.55	26.67	26.31	-90.31	-254.75	-2,525.92	2,020.95	1,968.15	52.80	38.277	
7,600.00	7,566.55	7,567.64	7,566.55	27.01	26.66	-90.31	-254.75	-2,525.92	2,020.95	1,967.46	53.49	37.779	
7,700.00	7,666.55	7,667.64	7,666.55	27.35	27.02	-90.31	-254.75	-2,525.92	2,020.95	1,966.76	54.19	37.293	
7,800.00	7,766.55	7,767.64	7,766.55	27.70	27.37	-90.31	-254.75	-2,525.92	2,020.95	1,966.06	54.89	36.820	
7,900.00	7,866.55	7,867.64	7,866.55	28.04	27.73	-90.31	-254.75	-2,525.92	2,020.95	1,965.36	55.59	36.358	
8,000.00	7,966.55	7,967.64	7,966.55	28.38	28.09	-90.31	-254.75	-2,525.92	2,020.95	1,964.67	56.28	35.907	
8,100.00	8,066.55	8,067.64	8,066.55	28.73	28.44	-90.31	-254.75	-2,525.92	2,020.95	1,963.97	56.98	35.467	
8,200.00	8,166.55	8,167.64	8,166.55	29.07	28.80	-90.31	-254.75	-2,525.92	2,020.95	1,963.27	57.68	35.037	
8,300.00	8,266.55	8,267.64	8,266.55	29.42	29.15	-90.31	-254.75	-2,525.92	2,020.95	1,962.57	58.38	34.617	
8,400.00	8,366.55	8,367.64	8,366.55	29.76	29.51	-90.31	-254.75	-2,525.92	2,020.95	1,961.87	59.08	34.207	
8,500.00	8,466.55	8,467.64	8,466.55	30.11	29.86	-90.31	-254.75	-2,525.92	2,020.95	1,961.17	59.78	33.806	
8,600.00	8,566.55	8,567.64	8,566.55	30.45	30.22	-90.31	-254.75	-2,525.92	2,020.95	1,960.47	60.48	33.415	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 222H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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
8,700.00	8,666.55	8,667.64	8,666.55	30.80	30.58	-90.31	-254.75	-2,525.92	2,020.95	1,959.77	61.18	33.032	
8,800.00	8,766.55	8,767.64	8,766.55	31.15	30.93	-90.31	-254.75	-2,525.92	2,020.95	1,959.07	61.88	32.657	
8,900.00	8,866.55	8,867.64	8,866.55	31.49	31.29	-90.31	-254.75	-2,525.92	2,020.95	1,958.36	62.59	32.291	
9,000.00	8,966.55	8,967.64	8,966.55	31.84	31.64	-90.31	-254.75	-2,525.92	2,020.95	1,957.66	63.29	31.933	
9,100.00	9,066.55	9,067.64	9,066.55	32.19	32.00	-90.31	-254.75	-2,525.92	2,020.95	1,956.96	63.99	31.582	
9,200.00	9,166.55	9,167.64	9,166.55	32.54	32.36	-90.31	-254.75	-2,525.92	2,020.95	1,956.26	64.69	31.239	
9,300.00	9,266.55	9,267.64	9,266.55	32.88	32.71	-90.31	-254.75	-2,525.92	2,020.95	1,955.55	65.40	30.903	
9,400.00	9,366.55	9,367.64	9,366.55	33.23	33.07	-90.31	-254.75	-2,525.92	2,020.95	1,954.85	66.10	30.575	
9,500.00	9,466.55	9,467.64	9,466.55	33.58	33.43	-90.31	-254.75	-2,525.92	2,020.95	1,954.15	66.80	30.253	
9,600.00	9,566.55	9,567.64	9,566.55	33.93	33.78	-90.31	-254.75	-2,525.92	2,020.95	1,953.44	67.51	29.937	
9,700.00	9,666.55	9,692.14	9,691.01	34.28	34.23	-90.26	-253.16	-2,525.67	2,020.84	1,952.55	68.28	29.596	
9,800.00	9,766.21	9,892.00	9,883.59	34.63	34.90	-79.69	-204.40	-2,517.95	2,015.48	1,946.29	69.18	29.132	
9,900.00	9,863.22	10,096.24	10,051.13	34.96	35.44	-78.87	-91.02	-2,499.99	2,002.34	1,932.39	69.95	28.626	
10,000.00	9,954.63	10,245.89	10,142.61	35.26	35.77	-78.66	25.43	-2,481.54	1,983.34	1,912.74	70.60	28.093	
10,100.00	10,037.67	10,368.78	10,192.84	35.52	35.97	-79.02	135.94	-2,464.04	1,960.09	1,888.91	71.18	27.539	
10,200.00	10,109.82	10,473.19	10,215.97	35.74	36.10	-79.91	236.37	-2,448.13	1,933.77	1,862.11	71.65	26.988	
10,300.00	10,168.87	10,563.72	10,221.00	35.91	36.18	-81.25	325.56	-2,434.01	1,905.29	1,833.28	72.01	26.457	
10,400.00	10,213.04	10,648.42	10,221.00	36.05	36.24	-83.12	409.21	-2,420.76	1,875.43	1,803.15	72.28	25.946	
10,500.00	10,240.99	10,739.08	10,221.00	36.17	36.32	-85.52	498.76	-2,406.58	1,844.31	1,771.81	72.50	25.440	
10,600.00	10,251.86	10,832.95	10,221.00	36.25	36.42	-88.54	591.47	-2,391.89	1,812.14	1,739.46	72.67	24.935	
10,700.00	10,252.00	10,927.50	10,221.00	36.32	36.54	-88.94	684.86	-2,377.10	1,779.59	1,706.74	72.84	24.430	
10,800.00	10,252.00	11,022.05	10,221.00	36.41	36.66	-88.92	778.25	-2,362.31	1,747.04	1,673.99	73.04	23.918	
10,900.00	10,252.00	11,116.60	10,221.00	36.53	36.81	-88.90	871.63	-2,347.52	1,714.48	1,641.21	73.27	23.399	
11,000.00	10,252.00	11,211.15	10,221.00	36.66	36.96	-88.88	965.02	-2,332.73	1,681.93	1,608.40	73.53	22.874	
11,100.00	10,252.00	11,305.71	10,221.00	36.81	37.13	-88.86	1,058.41	-2,317.94	1,649.38	1,575.57	73.82	22.344	
11,200.00	10,252.00	11,400.26	10,221.00	36.97	37.31	-88.84	1,151.80	-2,303.14	1,616.83	1,542.70	74.13	21.810	
11,300.00	10,252.00	11,494.81	10,221.00	37.16	37.51	-88.81	1,245.19	-2,288.35	1,584.28	1,509.80	74.48	21.272	
11,400.00	10,252.00	11,589.36	10,221.00	37.35	37.71	-88.79	1,338.57	-2,273.56	1,551.73	1,476.88	74.85	20.732	
11,500.00	10,252.00	11,683.91	10,221.00	37.57	37.93	-88.76	1,431.96	-2,258.77	1,519.18	1,443.93	75.25	20.189	
11,600.00	10,252.00	11,778.47	10,221.00	37.80	38.17	-88.74	1,525.35	-2,243.98	1,486.63	1,410.96	75.67	19.646	
11,700.00	10,252.00	11,864.98	10,221.00	38.04	38.39	-88.71	1,610.80	-2,230.49	1,454.15	1,378.04	76.11	19.106	
11,800.00	10,252.00	11,928.30	10,221.00	38.30	38.56	-88.70	1,673.49	-2,221.62	1,423.25	1,346.72	76.53	18.598	
11,900.00	10,252.00	12,000.00	10,221.00	38.57	38.76	-88.69	1,744.71	-2,213.26	1,396.86	1,319.87	76.99	18.144	
12,000.00	10,252.00	12,058.85	10,221.00	38.85	38.92	-88.69	1,803.29	-2,207.73	1,376.02	1,298.58	77.45	17.767	
12,100.00	10,252.00	12,125.75	10,221.00	39.14	39.12	-88.68	1,870.02	-2,202.90	1,360.93	1,282.98	77.94	17.461	
12,200.00	10,252.00	12,200.00	10,221.00	39.44	39.34	-88.68	1,944.18	-2,199.37	1,351.64	1,273.18	78.47	17.226	
12,300.00	10,252.00	12,261.26	10,221.00	39.74	39.53	-88.68	2,005.42	-2,197.90	1,347.94	1,268.96	78.97	17.068	
12,400.00	10,252.00	12,339.49	10,221.00	40.05	39.77	-88.68	2,083.65	-2,197.76	1,347.24	1,267.70	79.54	16.938	
12,500.00	10,252.00	12,439.49	10,221.00	40.38	40.09	-88.68	2,183.65	-2,198.05	1,347.09	1,266.90	80.19	16.799	
12,600.00	10,252.00	12,539.49	10,221.00	40.71	40.43	-88.68	2,283.65	-2,198.35	1,346.94	1,266.08	80.86	16.658	
12,700.00	10,252.00	12,639.49	10,221.00	41.06	40.77	-88.68	2,383.65	-2,198.64	1,346.80	1,265.24	81.56	16.514	
12,800.00	10,252.00	12,739.49	10,221.00	41.42	41.13	-88.68	2,483.65	-2,198.93	1,346.65	1,264.37	82.27	16.368	
12,900.00	10,252.00	12,839.49	10,221.00	41.79	41.50	-88.68	2,583.65	-2,199.23	1,346.50	1,263.49	83.02	16.220	
13,000.00	10,252.00	12,939.49	10,221.00	42.17	41.88	-88.68	2,683.65	-2,199.52	1,346.35	1,262.58	83.78	16.071	
13,100.00	10,252.00	13,039.49	10,221.00	42.56	42.26	-88.68	2,783.65	-2,199.81	1,346.21	1,261.64	84.56	15.920	
13,200.00	10,252.00	13,139.49	10,221.00	42.97	42.66	-88.68	2,883.65	-2,200.11	1,346.06	1,260.69	85.36	15.768	
13,300.00	10,252.00	13,239.49	10,221.00	43.38	43.07	-88.68	2,983.65	-2,200.40	1,345.91	1,259.72	86.19	15.616	
13,400.00	10,252.00	13,339.49	10,221.00	43.80	43.49	-88.68	3,083.65	-2,200.70	1,345.76	1,258.73	87.03	15.463	
13,500.00	10,252.00	13,439.49	10,221.00	44.23	43.92	-88.68	3,183.65	-2,200.99	1,345.61	1,257.72	87.89	15.310	
13,600.00	10,252.00	13,539.49	10,221.00	44.67	44.36	-88.68	3,283.65	-2,201.28	1,345.47	1,256.69	88.77	15.156	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 222H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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
13,700.00	10,252.00	13,639.49	10,221.00	45.12	44.81	-88.68	3,383.65	-2,201.58	1,345.32	1,255.65	89.67	15.003	
13,800.00	10,252.00	13,739.49	10,221.00	45.57	45.26	-88.68	3,483.65	-2,201.87	1,345.17	1,254.59	90.59	14.850	
13,900.00	10,252.00	13,839.49	10,221.00	46.04	45.73	-88.68	3,583.65	-2,202.16	1,345.02	1,253.51	91.52	14.697	
14,000.00	10,252.00	13,939.49	10,221.00	46.51	46.20	-88.68	3,683.65	-2,202.46	1,344.88	1,252.41	92.46	14.545	
14,100.00	10,252.00	14,039.49	10,221.00	46.99	46.68	-88.68	3,783.65	-2,202.75	1,344.73	1,251.30	93.43	14.393	
14,200.00	10,252.00	14,139.49	10,221.00	47.48	47.16	-88.68	3,883.64	-2,203.04	1,344.58	1,250.17	94.41	14.242	
14,300.00	10,252.00	14,239.49	10,221.00	47.98	47.66	-88.68	3,983.64	-2,203.34	1,344.43	1,249.03	95.40	14.093	
14,400.00	10,252.00	14,339.49	10,221.00	48.48	48.16	-88.68	4,083.64	-2,203.63	1,344.29	1,247.88	96.41	13.944	
14,500.00	10,252.00	14,439.49	10,221.00	48.99	48.67	-88.68	4,183.64	-2,203.92	1,344.14	1,246.71	97.43	13.796	
14,600.00	10,252.00	14,539.49	10,221.00	49.50	49.19	-88.68	4,283.64	-2,204.22	1,343.99	1,245.53	98.46	13.650	
14,700.00	10,252.00	14,639.49	10,221.00	50.03	49.71	-88.68	4,383.64	-2,204.51	1,343.84	1,244.33	99.51	13.504	
14,800.00	10,252.00	14,739.49	10,221.00	50.56	50.24	-88.68	4,483.64	-2,204.80	1,343.69	1,243.12	100.57	13.361	
14,900.00	10,252.00	14,839.49	10,221.00	51.09	50.77	-88.68	4,583.64	-2,205.10	1,343.55	1,241.90	101.64	13.218	
15,000.00	10,252.00	14,939.49	10,221.00	51.63	51.31	-88.68	4,683.64	-2,205.39	1,343.40	1,240.67	102.73	13.077	
15,100.00	10,252.00	15,039.49	10,221.00	52.18	51.86	-88.68	4,783.64	-2,205.68	1,343.25	1,239.43	103.82	12.938	
15,200.00	10,252.00	15,139.49	10,221.00	52.73	52.41	-88.68	4,883.64	-2,205.98	1,343.10	1,238.17	104.93	12.800	
15,300.00	10,252.00	15,239.49	10,221.00	53.29	52.97	-88.68	4,983.64	-2,206.27	1,342.96	1,236.91	106.05	12.664	
15,400.00	10,252.00	15,339.49	10,221.00	53.85	53.53	-88.68	5,083.64	-2,206.56	1,342.81	1,235.63	107.18	12.529	
15,500.00	10,252.00	15,439.49	10,221.00	54.42	54.10	-88.68	5,183.64	-2,206.86	1,342.66	1,234.35	108.31	12.396	
15,600.00	10,252.00	15,539.49	10,221.00	54.99	54.67	-88.68	5,283.64	-2,207.15	1,342.51	1,233.05	109.46	12.265	
15,700.00	10,252.00	15,639.49	10,221.00	55.57	55.25	-88.68	5,383.64	-2,207.44	1,342.37	1,231.75	110.62	12.135	
15,800.00	10,252.00	15,739.49	10,221.00	56.15	55.83	-88.68	5,483.64	-2,207.74	1,342.22	1,230.43	111.78	12.007	
15,900.00	10,252.00	15,839.49	10,221.00	56.74	56.41	-88.68	5,583.64	-2,208.03	1,342.07	1,229.11	112.96	11.881	
16,000.00	10,252.00	15,939.49	10,221.00	57.33	57.00	-88.68	5,683.64	-2,208.32	1,341.92	1,227.78	114.14	11.756	
16,100.00	10,252.00	16,039.49	10,221.00	57.92	57.60	-88.68	5,783.63	-2,208.62	1,341.77	1,226.44	115.34	11.634	
16,200.00	10,252.00	16,139.49	10,221.00	58.52	58.20	-88.68	5,883.63	-2,208.91	1,341.63	1,225.09	116.54	11.513	
16,300.00	10,252.00	16,239.49	10,221.00	59.12	58.80	-88.68	5,983.63	-2,209.20	1,341.48	1,223.74	117.74	11.393	
16,400.00	10,252.00	16,339.49	10,221.00	59.73	59.41	-88.68	6,083.63	-2,209.50	1,341.33	1,222.37	118.96	11.276	
16,500.00	10,252.00	16,439.49	10,221.00	60.34	60.02	-88.68	6,183.63	-2,209.79	1,341.18	1,221.00	120.18	11.160	
16,600.00	10,252.00	16,539.49	10,221.00	60.95	60.63	-88.68	6,283.63	-2,210.08	1,341.04	1,219.62	121.41	11.045	
16,700.00	10,252.00	16,639.49	10,221.00	61.57	61.25	-88.68	6,383.63	-2,210.38	1,340.89	1,218.24	122.65	10.933	
16,800.00	10,252.00	16,739.49	10,221.00	62.19	61.87	-88.68	6,483.63	-2,210.67	1,340.74	1,216.85	123.89	10.822	
16,900.00	10,252.00	16,839.49	10,221.00	62.82	62.49	-88.67	6,583.63	-2,210.97	1,340.59	1,215.45	125.14	10.713	
17,000.00	10,252.00	16,939.49	10,221.00	63.44	63.12	-88.67	6,683.63	-2,211.26	1,340.44	1,214.05	126.40	10.605	
17,100.00	10,252.00	17,039.49	10,221.00	64.07	63.75	-88.67	6,783.63	-2,211.55	1,340.30	1,212.64	127.66	10.499	
17,200.00	10,252.00	17,139.49	10,221.00	64.71	64.38	-88.67	6,883.63	-2,211.85	1,340.15	1,211.22	128.93	10.394	
17,300.00	10,252.00	17,239.48	10,221.00	65.34	65.02	-88.67	6,983.63	-2,212.14	1,340.00	1,209.80	130.20	10.292	
17,400.00	10,252.00	17,339.48	10,221.00	65.98	65.66	-88.67	7,083.63	-2,212.43	1,339.85	1,208.37	131.48	10.190	
17,500.00	10,252.00	17,439.48	10,221.00	66.62	66.30	-88.67	7,183.63	-2,212.73	1,339.71	1,206.94	132.77	10.090	
17,600.00	10,252.00	17,539.48	10,221.00	67.27	66.95	-88.67	7,283.63	-2,213.02	1,339.56	1,205.50	134.06	9.992	
17,700.00	10,252.00	17,639.48	10,221.00	67.91	67.59	-88.67	7,383.63	-2,213.31	1,339.41	1,204.06	135.36	9.896	
17,800.00	10,252.00	17,739.48	10,221.00	68.56	68.24	-88.67	7,483.63	-2,213.61	1,339.26	1,202.61	136.66	9.800	
17,900.00	10,252.00	17,839.48	10,221.00	69.21	68.89	-88.67	7,583.63	-2,213.90	1,339.12	1,201.15	137.96	9.706	
18,000.00	10,252.00	17,939.48	10,221.00	69.87	69.55	-88.67	7,683.62	-2,214.19	1,338.97	1,199.70	139.27	9.614	
18,100.00	10,252.00	18,039.48	10,221.00	70.52	70.21	-88.67	7,783.62	-2,214.49	1,338.82	1,198.23	140.59	9.523	
18,200.00	10,252.00	18,139.48	10,221.00	71.18	70.86	-88.67	7,883.62	-2,214.78	1,338.67	1,196.77	141.91	9.433	
18,300.00	10,252.00	18,239.48	10,221.00	71.84	71.53	-88.67	7,983.62	-2,215.07	1,338.52	1,195.29	143.23	9.345	
18,400.00	10,252.00	18,339.48	10,221.00	72.51	72.19	-88.67	8,083.62	-2,215.37	1,338.38	1,193.82	144.56	9.258	
18,500.00	10,252.00	18,439.48	10,221.00	73.17	72.85	-88.67	8,183.62	-2,215.66	1,338.23	1,192.34	145.89	9.173	
18,600.00	10,252.00	18,539.48	10,221.00	73.84	73.52	-88.67	8,283.62	-2,215.95	1,338.08	1,190.86	147.23	9.089	
18,700.00	10,252.00	18,639.48	10,221.00	74.51	74.19	-88.67	8,383.62	-2,216.25	1,337.93	1,189.37	148.57	9.006	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 222H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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
18,800.00	10,252.00	18,739.48	10,221.00	75.18	74.86	-88.67	8,483.62	-2,216.54	1,337.79	1,187.88	149.91	8.924	
18,900.00	10,252.00	18,839.48	10,221.00	75.85	75.53	-88.67	8,583.62	-2,216.83	1,337.64	1,186.38	151.26	8.843	
19,000.00	10,252.00	18,939.48	10,221.00	76.53	76.21	-88.67	8,683.62	-2,217.13	1,337.49	1,184.88	152.61	8.764	
19,100.00	10,252.00	19,039.48	10,221.00	77.20	76.89	-88.67	8,783.62	-2,217.42	1,337.34	1,183.38	153.96	8.686	
19,200.00	10,252.00	19,139.48	10,221.00	77.88	77.56	-88.67	8,883.62	-2,217.71	1,337.20	1,181.88	155.32	8.609	
19,300.00	10,252.00	19,239.48	10,221.00	78.56	78.24	-88.67	8,983.62	-2,218.01	1,337.05	1,180.37	156.68	8.534	
19,400.00	10,252.00	19,339.48	10,221.00	79.24	78.93	-88.67	9,083.62	-2,218.30	1,336.90	1,178.85	158.05	8.459	
19,500.00	10,252.00	19,439.48	10,221.00	79.92	79.61	-88.67	9,183.62	-2,218.59	1,336.75	1,177.34	159.41	8.385	
19,600.00	10,252.00	19,539.48	10,221.00	80.61	80.29	-88.67	9,283.62	-2,218.89	1,336.60	1,175.82	160.78	8.313	
19,700.00	10,252.00	19,639.48	10,221.00	81.30	80.98	-88.67	9,383.62	-2,219.18	1,336.46	1,174.30	162.16	8.242	
19,800.00	10,252.00	19,739.48	10,221.00	81.98	81.67	-88.67	9,483.61	-2,219.47	1,336.31	1,172.78	163.53	8.171	
19,900.00	10,252.00	19,839.48	10,221.00	82.67	82.36	-88.67	9,583.61	-2,219.77	1,336.16	1,171.25	164.91	8.102	
20,000.00	10,252.00	19,939.48	10,221.00	83.36	83.05	-88.67	9,683.61	-2,220.06	1,336.01	1,169.72	166.29	8.034	
20,100.00	10,252.00	20,039.48	10,221.00	84.05	83.74	-88.67	9,783.61	-2,220.36	1,335.87	1,168.19	167.68	7.967	
20,200.00	10,252.00	20,139.48	10,221.00	84.75	84.43	-88.67	9,883.61	-2,220.65	1,335.72	1,166.65	169.07	7.901	
20,300.00	10,252.00	20,239.48	10,221.00	85.44	85.13	-88.67	9,983.61	-2,220.94	1,335.57	1,165.11	170.46	7.835	
20,400.00	10,252.00	20,339.48	10,221.00	86.14	85.82	-88.67	10,083.61	-2,221.24	1,335.42	1,163.57	171.85	7.771	
20,500.00	10,252.00	20,439.48	10,221.00	86.83	86.52	-88.67	10,183.61	-2,221.53	1,335.28	1,162.03	173.24	7.707	
20,600.00	10,252.00	20,539.48	10,221.00	87.53	87.22	-88.67	10,283.61	-2,221.82	1,335.13	1,160.49	174.64	7.645	
20,700.00	10,252.00	20,639.48	10,221.00	88.23	87.92	-88.67	10,383.61	-2,222.12	1,334.98	1,158.94	176.04	7.583	
20,800.00	10,252.00	20,739.48	10,221.00	88.93	88.62	-88.67	10,483.61	-2,222.41	1,334.83	1,157.39	177.44	7.523	
20,900.00	10,252.00	20,839.48	10,221.00	89.63	89.32	-88.67	10,583.61	-2,222.70	1,334.68	1,155.84	178.85	7.463	
21,000.00	10,252.00	20,939.48	10,221.00	90.33	90.02	-88.67	10,683.61	-2,223.00	1,334.54	1,154.28	180.25	7.404	
21,100.00	10,252.00	21,039.48	10,221.00	91.04	90.72	-88.67	10,783.61	-2,223.29	1,334.39	1,152.73	181.66	7.345	
21,200.00	10,252.00	21,139.48	10,221.00	91.74	91.43	-88.67	10,883.61	-2,223.58	1,334.24	1,151.17	183.07	7.288	
21,300.00	10,252.00	21,239.48	10,221.00	92.45	92.13	-88.67	10,983.61	-2,223.88	1,334.09	1,149.61	184.48	7.232	
21,400.00	10,252.00	21,339.48	10,221.00	93.15	92.84	-88.67	11,083.61	-2,224.17	1,333.95	1,148.05	185.90	7.176	
21,500.00	10,252.00	21,439.48	10,221.00	93.86	93.55	-88.67	11,183.61	-2,224.46	1,333.80	1,146.48	187.31	7.121	
21,600.00	10,252.00	21,539.48	10,221.00	94.57	94.26	-88.67	11,283.61	-2,224.76	1,333.65	1,144.92	188.73	7.066	
21,700.00	10,252.00	21,639.48	10,221.00	95.28	94.97	-88.67	11,383.60	-2,225.05	1,333.50	1,143.35	190.15	7.013	
21,800.00	10,252.00	21,739.48	10,221.00	95.99	95.68	-88.67	11,483.60	-2,225.34	1,333.36	1,141.78	191.57	6.960	
21,900.00	10,252.00	21,839.48	10,221.00	96.70	96.39	-88.67	11,583.60	-2,225.64	1,333.21	1,140.21	193.00	6.908	
22,000.00	10,252.00	21,939.48	10,221.00	97.41	97.10	-88.67	11,683.60	-2,225.93	1,333.06	1,138.64	194.42	6.856	
22,100.00	10,252.00	22,039.48	10,221.00	98.13	97.81	-88.67	11,783.60	-2,226.22	1,332.91	1,137.06	195.85	6.806	
22,200.00	10,252.00	22,139.48	10,221.00	98.84	98.53	-88.67	11,883.60	-2,226.52	1,332.76	1,135.49	197.28	6.756	
22,300.00	10,252.00	22,239.48	10,221.00	99.55	99.24	-88.67	11,983.60	-2,226.81	1,332.62	1,133.91	198.71	6.706	
22,400.00	10,252.00	22,339.48	10,221.00	100.27	99.96	-88.67	12,083.60	-2,227.10	1,332.47	1,132.33	200.14	6.658	
22,500.00	10,252.00	22,439.48	10,221.00	100.99	100.67	-88.67	12,183.60	-2,227.40	1,332.32	1,130.75	201.57	6.610	
22,600.00	10,252.00	22,539.48	10,221.00	101.70	101.39	-88.67	12,283.60	-2,227.69	1,332.17	1,129.17	203.01	6.562	
22,700.00	10,252.00	22,639.48	10,221.00	102.42	102.11	-88.67	12,383.60	-2,227.98	1,332.03	1,127.58	204.45	6.515	
22,800.00	10,252.00	22,739.48	10,221.00	103.14	102.83	-88.67	12,483.60	-2,228.28	1,331.88	1,126.00	205.88	6.469	
22,900.00	10,252.00	22,839.48	10,221.00	103.86	103.55	-88.67	12,583.60	-2,228.57	1,331.73	1,124.41	207.32	6.423	
23,000.00	10,252.00	22,939.48	10,221.00	104.58	104.27	-88.67	12,683.60	-2,228.86	1,331.58	1,122.82	208.76	6.378	
23,100.00	10,252.00	23,039.48	10,221.00	105.30	104.99	-88.67	12,783.60	-2,229.16	1,331.44	1,121.23	210.20	6.334	
23,200.00	10,252.00	23,139.48	10,221.00	106.02	105.71	-88.67	12,883.60	-2,229.45	1,331.29	1,119.64	211.65	6.290	
23,300.00	10,252.00	23,239.48	10,221.00	106.74	106.43	-88.67	12,983.60	-2,229.75	1,331.14	1,118.05	213.09	6.247	
23,400.00	10,252.00	23,339.48	10,221.00	107.46	107.15	-88.67	13,083.60	-2,230.04	1,330.99	1,116.45	214.54	6.204	
23,500.00	10,252.00	23,439.48	10,221.00	108.19	107.88	-88.67	13,183.59	-2,230.33	1,330.84	1,114.86	215.99	6.162	
23,600.00	10,252.00	23,539.48	10,221.00	108.91	108.60	-88.67	13,283.59	-2,230.63	1,330.70	1,113.26	217.43	6.120	
23,700.00	10,252.00	23,639.48	10,221.00	109.63	109.32	-88.66	13,383.59	-2,230.92	1,330.55	1,111.67	218.88	6.079	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 222H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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
23,800.00	10,252.00	23,739.48	10,221.00	110.36	110.05	-88.66	13,483.59	-2,231.21	1,330.40	1,110.07	220.33	6.038	
23,900.00	10,252.00	23,839.48	10,221.00	111.08	110.77	-88.66	13,583.59	-2,231.51	1,330.25	1,108.47	221.79	5.998	
24,000.00	10,252.00	23,939.48	10,221.00	111.81	111.50	-88.66	13,683.59	-2,231.80	1,330.11	1,106.87	223.24	5.958	
24,100.00	10,252.00	24,039.48	10,221.00	112.54	112.23	-88.66	13,783.59	-2,232.09	1,329.96	1,105.27	224.69	5.919	
24,200.00	10,252.00	24,139.48	10,221.00	113.26	112.95	-88.66	13,883.59	-2,232.39	1,329.81	1,103.66	226.15	5.880	
24,300.00	10,252.00	24,239.48	10,221.00	113.99	113.68	-88.66	13,983.59	-2,232.68	1,329.66	1,102.06	227.60	5.842	
24,400.00	10,252.00	24,339.48	10,221.00	114.72	114.41	-88.66	14,083.59	-2,232.97	1,329.52	1,100.45	229.06	5.804	
24,500.00	10,252.00	24,439.48	10,221.00	115.45	115.14	-88.66	14,183.59	-2,233.27	1,329.37	1,098.85	230.52	5.767	
24,600.00	10,252.00	24,539.48	10,221.00	116.18	115.87	-88.66	14,283.59	-2,233.56	1,329.22	1,097.24	231.98	5.730	
24,700.00	10,252.00	24,639.48	10,221.00	116.91	116.60	-88.66	14,383.59	-2,233.85	1,329.07	1,095.63	233.44	5.693	
24,800.00	10,252.00	24,739.48	10,221.00	117.64	117.33	-88.66	14,483.59	-2,234.15	1,328.92	1,094.02	234.90	5.657	
24,900.00	10,252.00	24,839.48	10,221.00	118.37	118.06	-88.66	14,583.59	-2,234.44	1,328.78	1,092.41	236.36	5.622	
25,000.00	10,252.00	24,939.48	10,221.00	119.10	118.79	-88.66	14,683.59	-2,234.73	1,328.63	1,090.80	237.83	5.587	
25,100.00	10,252.00	25,039.48	10,221.00	119.83	119.52	-88.66	14,783.59	-2,235.03	1,328.48	1,089.19	239.29	5.552	
25,200.00	10,252.00	25,139.48	10,221.00	120.56	120.26	-88.66	14,883.59	-2,235.32	1,328.33	1,087.58	240.76	5.517	
25,300.00	10,252.00	25,239.48	10,221.00	121.30	120.99	-88.66	14,983.59	-2,235.61	1,328.19	1,085.96	242.22	5.483	
25,400.00	10,252.00	25,339.48	10,221.00	122.03	121.72	-88.66	15,083.58	-2,235.91	1,328.04	1,084.35	243.69	5.450	
25,500.00	10,252.00	25,439.48	10,221.00	122.76	122.46	-88.66	15,183.58	-2,236.20	1,327.89	1,082.73	245.16	5.416	
25,600.00	10,252.00	25,539.48	10,221.00	123.50	123.19	-88.66	15,283.58	-2,236.49	1,327.74	1,081.12	246.63	5.384	
25,686.75	10,252.00	25,626.23	10,221.00	124.15	123.83	-88.66	15,370.34	-2,236.75	1,327.61	1,079.72	247.90	5.355	
25,694.09	10,252.00	25,630.81	10,221.00	124.20	123.86	-88.66	15,374.92	-2,236.76	1,327.61	1,079.62	247.99	5.354	CC, ES, SF

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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	0.70	0.00	0.50	0.50	89.51	0.34	39.99	39.99				
100.00	100.00	100.70	100.00	0.57	0.57	89.51	0.34	39.99	39.99	38.86	1.13	35.343	
200.00	200.00	200.70	200.00	0.80	0.80	89.51	0.34	39.99	39.99	38.39	1.60	25.026	
300.00	300.00	300.70	300.00	1.10	1.10	89.51	0.34	39.99	39.99	37.79	2.20	18.150	
400.00	400.00	400.70	400.00	1.43	1.43	89.51	0.34	39.99	39.99	37.13	2.86	13.979	
500.00	500.00	500.70	500.00	1.77	1.77	89.51	0.34	39.99	39.99	36.45	3.54	11.293	
600.00	600.00	600.70	600.00	2.12	2.12	89.51	0.34	39.99	39.99	35.76	4.23	9.445	CC, ES
700.00	699.98	700.68	699.98	2.45	2.47	-155.72	0.34	39.99	41.58	36.65	4.92	8.448	
800.00	799.84	800.54	799.84	2.79	2.82	-158.34	0.34	39.99	46.40	40.79	5.61	8.274	
900.00	899.45	900.15	899.45	3.13	3.17	-161.67	0.34	39.99	54.59	48.29	6.30	8.664	
1,000.00	998.76	999.46	998.76	3.48	3.52	-164.86	0.34	39.99	65.86	58.86	7.00	9.408	
1,100.00	1,098.01	1,098.71	1,098.01	3.82	3.88	-167.21	0.34	39.99	77.71	70.01	7.70	10.094	
1,200.00	1,197.26	1,197.96	1,197.26	4.18	4.23	-168.93	0.34	39.99	89.64	81.24	8.40	10.671	
1,300.00	1,296.52	1,297.22	1,296.52	4.53	4.58	-170.25	0.34	39.99	101.64	92.54	9.11	11.162	
1,400.00	1,395.77	1,396.47	1,395.77	4.89	4.94	-171.29	0.34	39.99	113.68	103.87	9.81	11.584	
1,500.00	1,495.02	1,495.72	1,495.02	5.25	5.29	-172.13	0.34	39.99	125.75	115.23	10.52	11.950	
1,600.00	1,594.28	1,594.98	1,594.28	5.61	5.64	-172.83	0.34	39.99	137.84	126.61	11.23	12.270	
1,700.00	1,693.53	1,694.23	1,693.53	5.98	6.00	-173.41	0.34	39.99	149.95	138.01	11.95	12.552	
1,800.00	1,792.79	1,793.49	1,792.79	6.34	6.35	-173.90	0.34	39.99	162.08	149.41	12.66	12.802	
1,900.00	1,892.04	1,892.74	1,892.04	6.70	6.71	-174.33	0.34	39.99	174.21	160.83	13.38	13.025	
2,000.00	1,991.29	1,991.99	1,991.29	7.07	7.06	-174.70	0.34	39.99	186.35	172.26	14.09	13.225	
2,100.00	2,090.55	2,091.25	2,090.55	7.43	7.42	-175.02	0.34	39.99	198.49	183.69	14.81	13.406	
2,200.00	2,189.80	2,190.50	2,189.80	7.80	7.77	-175.31	0.34	39.99	210.65	195.12	15.52	13.570	
2,300.00	2,289.05	2,289.75	2,289.05	8.17	8.13	-175.57	0.34	39.99	222.80	206.56	16.24	13.719	
2,400.00	2,388.31	2,389.01	2,388.31	8.53	8.48	-175.80	0.34	39.99	234.97	218.01	16.96	13.856	
2,500.00	2,487.56	2,488.26	2,487.56	8.90	8.84	-176.01	0.34	39.99	247.13	229.46	17.68	13.981	
2,600.00	2,586.81	2,583.73	2,583.02	9.27	9.17	-175.95	-0.42	40.95	259.93	241.58	18.36	14.160	
2,700.00	2,686.07	2,678.20	2,677.39	9.63	9.48	-175.33	-3.09	44.34	274.38	255.36	19.02	14.429	
2,800.00	2,785.32	2,771.95	2,770.85	10.00	9.80	-174.25	-7.65	50.11	290.55	270.88	19.66	14.776	
2,900.00	2,884.57	2,864.79	2,863.11	10.37	10.11	-172.80	-14.03	58.19	308.56	288.26	20.30	15.200	
3,000.00	2,983.83	2,960.26	2,957.67	10.74	10.43	-171.11	-22.14	68.45	328.21	307.25	20.96	15.659	
3,100.00	3,083.08	3,057.80	3,054.27	11.11	10.76	-169.54	-30.55	79.11	348.26	326.62	21.64	16.090	
3,200.00	3,182.34	3,155.35	3,150.86	11.47	11.09	-168.14	-38.97	89.77	368.54	346.21	22.33	16.504	
3,300.00	3,281.59	3,252.89	3,247.46	11.84	11.42	-166.89	-47.38	100.42	389.01	365.99	23.02	16.899	
3,400.00	3,380.84	3,350.44	3,344.05	12.21	11.76	-165.76	-55.80	111.08	409.63	385.92	23.71	17.276	
3,500.00	3,480.10	3,447.98	3,440.65	12.58	12.09	-164.74	-64.22	121.74	430.40	405.99	24.41	17.635	
3,600.00	3,579.35	3,545.53	3,537.24	12.95	12.43	-163.82	-72.63	132.39	451.29	426.18	25.10	17.979	
3,700.00	3,678.60	3,643.07	3,633.84	13.32	12.77	-162.97	-81.05	143.05	472.27	446.47	25.80	18.306	
3,800.00	3,777.86	3,740.62	3,730.43	13.69	13.11	-162.20	-89.46	153.71	493.35	466.85	26.50	18.618	
3,900.00	3,877.11	3,838.16	3,827.03	14.05	13.46	-161.49	-97.88	164.36	514.51	487.31	27.20	18.916	
4,000.00	3,976.36	3,935.71	3,923.62	14.42	13.80	-160.84	-106.29	175.02	535.74	507.83	27.90	19.200	
4,100.00	4,075.62	4,033.25	4,020.22	14.79	14.14	-160.23	-114.71	185.68	557.03	528.42	28.61	19.472	
4,200.00	4,174.87	4,130.80	4,116.82	15.16	14.49	-159.67	-123.13	196.34	578.37	549.06	29.31	19.732	
4,300.00	4,274.12	4,228.34	4,213.41	15.53	14.84	-159.15	-131.54	206.99	599.76	569.74	30.02	19.980	
4,400.00	4,373.38	4,325.89	4,310.01	15.90	15.18	-158.67	-139.96	217.65	621.20	590.47	30.73	20.218	
4,500.00	4,472.63	4,423.43	4,406.60	16.27	15.53	-158.22	-148.37	228.31	642.68	611.24	31.43	20.445	
4,600.00	4,571.89	4,520.98	4,503.20	16.64	15.88	-157.80	-156.79	238.96	664.19	632.04	32.14	20.663	
4,700.00	4,671.14	4,618.52	4,599.79	17.01	16.23	-157.40	-165.20	249.62	685.73	652.88	32.85	20.873	
4,800.00	4,770.39	4,716.07	4,696.39	17.38	16.58	-157.03	-173.62	260.28	707.31	673.74	33.56	21.073	
4,900.00	4,869.65	4,813.61	4,792.98	17.75	16.93	-156.68	-182.04	270.93	728.91	694.63	34.28	21.266	
5,000.00	4,968.90	4,911.16	4,889.58	18.12	17.28	-156.35	-190.45	281.59	750.53	715.54	34.99	21.450	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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	5,068.15	5,008.70	4,986.17	18.49	17.63	-156.04	-198.87	292.25	772.18	736.48	35.70	21.628	
5,200.00	5,167.41	5,106.25	5,082.77	18.86	17.98	-155.75	-207.28	302.90	793.85	757.43	36.42	21.799	
5,300.00	5,266.86	5,204.10	5,179.67	19.22	18.34	-155.58	-215.73	313.59	813.92	776.80	37.13	21.921	
5,400.00	5,366.61	5,318.99	5,293.56	19.58	18.75	-155.27	-225.06	325.41	830.34	792.37	37.98	21.865	
5,500.00	5,466.55	5,447.42	5,421.44	19.94	19.21	-154.97	-232.33	334.62	840.54	801.65	38.89	21.612	
5,600.00	5,566.55	5,576.95	5,550.82	20.27	19.67	89.47	-236.06	339.35	844.53	804.78	39.75	21.245	
5,700.00	5,666.55	5,692.68	5,666.55	20.60	20.07	89.50	-236.57	339.99	845.02	804.52	40.50	20.865	
5,800.00	5,766.55	5,792.68	5,766.55	20.93	20.42	89.50	-236.57	339.99	845.02	803.85	41.17	20.523	
5,900.00	5,866.55	5,892.68	5,866.55	21.27	20.76	89.50	-236.57	339.99	845.02	803.17	41.85	20.192	
6,000.00	5,966.55	5,992.68	5,966.55	21.60	21.11	89.50	-236.57	339.99	845.02	802.50	42.53	19.871	
6,100.00	6,066.55	6,092.68	6,066.55	21.93	21.46	89.50	-236.57	339.99	845.02	801.82	43.20	19.559	
6,200.00	6,166.55	6,192.68	6,166.55	22.27	21.80	89.50	-236.57	339.99	845.02	801.14	43.88	19.257	
6,300.00	6,266.55	6,292.68	6,266.55	22.60	22.15	89.50	-236.57	339.99	845.02	800.46	44.56	18.963	
6,400.00	6,366.55	6,392.68	6,366.55	22.94	22.50	89.50	-236.57	339.99	845.02	799.78	45.24	18.677	
6,500.00	6,466.55	6,492.68	6,466.55	23.27	22.85	89.50	-236.57	339.99	845.02	799.10	45.93	18.400	
6,600.00	6,566.55	6,592.68	6,566.55	23.61	23.20	89.50	-236.57	339.99	845.02	798.41	46.61	18.130	
6,700.00	6,666.55	6,692.68	6,666.55	23.95	23.55	89.50	-236.57	339.99	845.02	797.73	47.29	17.868	
6,800.00	6,766.55	6,792.68	6,766.55	24.28	23.90	89.50	-236.57	339.99	845.02	797.04	47.98	17.612	
6,900.00	6,866.55	6,892.68	6,866.55	24.62	24.25	89.50	-236.57	339.99	845.02	796.36	48.67	17.364	
7,000.00	6,966.55	6,992.68	6,966.55	24.96	24.60	89.50	-236.57	339.99	845.02	795.67	49.35	17.122	
7,100.00	7,066.55	7,092.68	7,066.55	25.30	24.95	89.50	-236.57	339.99	845.02	794.98	50.04	16.887	
7,200.00	7,166.55	7,192.68	7,166.55	25.64	25.30	89.50	-236.57	339.99	845.02	794.29	50.73	16.657	
7,300.00	7,266.55	7,292.68	7,266.55	25.98	25.65	89.50	-236.57	339.99	845.02	793.60	51.42	16.434	
7,400.00	7,366.55	7,392.68	7,366.55	26.33	26.00	89.50	-236.57	339.99	845.02	792.91	52.11	16.216	
7,500.00	7,466.55	7,492.68	7,466.55	26.67	26.35	89.50	-236.57	339.99	845.02	792.22	52.80	16.004	
7,600.00	7,566.55	7,592.68	7,566.55	27.01	26.70	89.50	-236.57	339.99	845.02	791.53	53.49	15.797	
7,700.00	7,666.55	7,692.68	7,666.55	27.35	27.05	89.50	-236.57	339.99	845.02	790.84	54.18	15.595	
7,800.00	7,766.55	7,792.68	7,766.55	27.70	27.40	89.50	-236.57	339.99	845.02	790.15	54.88	15.398	
7,900.00	7,866.55	7,892.68	7,866.55	28.04	27.75	89.50	-236.57	339.99	845.02	789.45	55.57	15.206	
8,000.00	7,966.55	7,992.68	7,966.55	28.38	28.11	89.50	-236.57	339.99	845.02	788.76	56.26	15.019	
8,100.00	8,066.55	8,092.68	8,066.55	28.73	28.46	89.50	-236.57	339.99	845.02	788.06	56.96	14.836	
8,200.00	8,166.55	8,192.68	8,166.55	29.07	28.81	89.50	-236.57	339.99	845.02	787.37	57.65	14.657	
8,300.00	8,266.55	8,292.68	8,266.55	29.42	29.16	89.50	-236.57	339.99	845.02	786.67	58.35	14.482	
8,400.00	8,366.55	8,392.68	8,366.55	29.76	29.52	89.50	-236.57	339.99	845.02	785.98	59.05	14.311	
8,500.00	8,466.55	8,492.68	8,466.55	30.11	29.87	89.50	-236.57	339.99	845.02	785.28	59.74	14.144	
8,600.00	8,566.55	8,592.68	8,566.55	30.45	30.22	89.50	-236.57	339.99	845.02	784.58	60.44	13.981	
8,700.00	8,666.55	8,692.68	8,666.55	30.80	30.57	89.50	-236.57	339.99	845.02	783.88	61.14	13.821	
8,800.00	8,766.55	8,792.68	8,766.55	31.15	30.93	89.50	-236.57	339.99	845.02	783.19	61.84	13.665	
8,900.00	8,866.55	8,892.68	8,866.55	31.49	31.28	89.50	-236.57	339.99	845.02	782.49	62.53	13.513	
9,000.00	8,966.55	8,992.68	8,966.55	31.84	31.63	89.50	-236.57	339.99	845.02	781.79	63.23	13.363	
9,100.00	9,066.55	9,092.68	9,066.55	32.19	31.99	89.50	-236.57	339.99	845.02	781.09	63.93	13.217	
9,200.00	9,166.55	9,192.68	9,166.55	32.54	32.34	89.50	-236.57	339.99	845.02	780.39	64.63	13.074	
9,300.00	9,266.55	9,292.68	9,266.55	32.88	32.69	89.50	-236.57	339.99	845.02	779.69	65.33	12.934	
9,400.00	9,366.55	9,392.68	9,366.55	33.23	33.05	89.50	-236.57	339.99	845.02	778.99	66.03	12.797	
9,500.00	9,466.55	9,492.68	9,466.55	33.58	33.40	89.50	-236.57	339.99	845.02	778.29	66.73	12.662	
9,600.00	9,566.55	9,592.68	9,566.55	33.93	33.76	89.50	-236.57	339.99	845.02	777.59	67.44	12.531	
9,700.00	9,666.55	9,692.68	9,666.55	34.28	34.11	89.50	-236.57	339.99	845.02	776.88	68.14	12.402	
9,800.00	9,766.21	9,776.36	9,750.09	34.63	34.41	99.44	-233.06	340.58	846.90	778.14	68.76	12.317	
9,900.00	9,863.22	9,856.05	9,828.42	34.96	34.68	99.05	-218.92	342.94	853.95	784.63	69.32	12.319	
10,000.00	9,954.63	9,935.81	9,904.06	35.26	34.94	98.35	-194.18	347.08	866.05	796.22	69.84	12.401	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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
10,100.00	10,037.67	10,015.66	9,975.58	35.52	35.17	97.34	-159.28	352.92	882.90	812.58	70.32	12.556	
10,200.00	10,109.82	10,095.75	10,041.67	35.74	35.38	96.05	-114.78	360.37	904.05	833.28	70.77	12.775	
10,300.00	10,168.87	10,176.32	10,101.15	35.91	35.56	94.52	-61.28	369.32	928.95	857.76	71.19	13.049	
10,400.00	10,213.04	10,257.74	10,152.95	36.05	35.71	92.81	0.59	379.68	956.98	885.41	71.57	13.371	
10,500.00	10,240.99	10,340.57	10,195.98	36.17	35.85	90.97	70.31	391.34	987.43	915.53	71.91	13.732	
10,600.00	10,251.86	10,425.54	10,229.07	36.25	35.97	89.08	147.41	404.25	1,019.56	947.39	72.17	14.128	
10,700.00	10,252.00	10,515.08	10,251.04	36.32	36.07	89.94	232.94	418.56	1,052.66	980.30	72.36	14.548	
10,800.00	10,252.00	10,609.61	10,259.29	36.41	36.14	90.41	325.71	434.08	1,086.06	1,013.56	72.51	14.979	
10,900.00	10,252.00	10,762.42	10,259.30	36.53	36.24	90.39	477.00	455.42	1,117.05	1,044.33	72.72	15.362	
11,000.00	10,252.00	10,922.02	10,259.30	36.66	36.39	90.38	635.99	469.07	1,142.78	1,069.79	72.99	15.657	
11,100.00	10,252.00	11,085.92	10,259.30	36.81	36.58	90.37	799.81	473.84	1,163.01	1,089.70	73.32	15.863	
11,200.00	10,252.00	11,190.16	10,259.30	36.97	36.72	90.36	904.05	473.42	1,179.97	1,106.36	73.61	16.031	
11,300.00	10,252.00	11,288.72	10,259.30	37.16	36.87	90.35	1,002.60	473.00	1,196.91	1,122.99	73.92	16.192	
11,400.00	10,252.00	11,387.27	10,259.30	37.35	37.04	90.35	1,101.15	472.57	1,213.84	1,139.58	74.27	16.344	
11,500.00	10,252.00	11,485.83	10,259.30	37.57	37.22	90.34	1,199.71	472.14	1,230.78	1,156.14	74.64	16.489	
11,600.00	10,252.00	11,584.39	10,259.30	37.80	37.41	90.34	1,298.26	471.71	1,247.72	1,172.67	75.05	16.626	
11,700.00	10,252.00	11,682.94	10,259.30	38.04	37.62	90.34	1,396.82	471.28	1,264.65	1,189.17	75.48	16.754	
11,800.00	10,252.00	11,781.51	10,259.30	38.30	37.84	90.33	1,495.39	470.85	1,281.50	1,205.56	75.94	16.874	
11,900.00	10,252.00	11,880.46	10,259.30	38.57	38.07	90.33	1,594.33	470.42	1,295.94	1,219.50	76.44	16.955	
12,000.00	10,252.00	11,979.85	10,259.30	38.85	38.32	90.32	1,693.72	469.99	1,306.91	1,229.96	76.95	16.983	
12,100.00	10,252.00	12,079.56	10,259.30	39.14	38.59	90.32	1,793.44	469.56	1,314.41	1,236.91	77.50	16.960	
12,200.00	10,252.00	12,179.48	10,259.30	39.44	38.86	90.32	1,893.35	469.12	1,318.42	1,240.36	78.07	16.888	
12,300.00	10,252.00	12,279.47	10,259.30	39.74	39.16	90.32	1,993.34	468.69	1,319.17	1,240.51	78.66	16.771	
12,400.00	10,252.00	12,379.47	10,259.30	40.05	39.46	90.32	2,093.34	468.26	1,319.17	1,239.90	79.27	16.641	
12,500.00	10,252.00	12,479.47	10,259.30	40.38	39.78	90.32	2,193.34	467.82	1,319.18	1,239.26	79.91	16.507	
12,600.00	10,252.00	12,579.47	10,259.30	40.71	40.10	90.32	2,293.34	467.39	1,319.18	1,238.60	80.58	16.371	
12,700.00	10,252.00	12,679.47	10,259.30	41.06	40.44	90.32	2,393.34	466.95	1,319.19	1,237.92	81.27	16.232	
12,800.00	10,252.00	12,779.47	10,259.30	41.42	40.80	90.32	2,493.34	466.52	1,319.20	1,237.22	81.98	16.091	
12,900.00	10,252.00	12,879.47	10,259.30	41.79	41.16	90.32	2,593.34	466.08	1,319.20	1,236.49	82.72	15.949	
13,000.00	10,252.00	12,979.47	10,259.30	42.17	41.53	90.32	2,693.34	465.65	1,319.21	1,235.74	83.47	15.804	
13,100.00	10,252.00	13,079.47	10,259.30	42.56	41.92	90.32	2,793.33	465.21	1,319.22	1,234.97	84.25	15.658	
13,200.00	10,252.00	13,179.47	10,259.30	42.97	42.32	90.32	2,893.33	464.78	1,319.22	1,234.17	85.05	15.511	
13,300.00	10,252.00	13,279.47	10,259.30	43.38	42.72	90.32	2,993.33	464.34	1,319.23	1,233.36	85.87	15.364	
13,400.00	10,252.00	13,379.47	10,259.30	43.80	43.14	90.32	3,093.33	463.91	1,319.24	1,232.53	86.71	15.215	
13,500.00	10,252.00	13,479.47	10,259.30	44.23	43.56	90.32	3,193.33	463.47	1,319.24	1,231.68	87.56	15.066	
13,600.00	10,252.00	13,579.47	10,259.30	44.67	44.00	90.32	3,293.33	463.04	1,319.25	1,230.81	88.44	14.917	
13,700.00	10,252.00	13,679.47	10,259.30	45.12	44.44	90.32	3,393.33	462.60	1,319.26	1,229.93	89.33	14.768	
13,800.00	10,252.00	13,779.47	10,259.30	45.57	44.89	90.32	3,493.33	462.17	1,319.26	1,229.02	90.24	14.619	
13,900.00	10,252.00	13,879.47	10,259.30	46.04	45.35	90.32	3,593.33	461.73	1,319.27	1,228.10	91.17	14.471	
14,000.00	10,252.00	13,979.47	10,259.30	46.51	45.82	90.32	3,693.33	461.30	1,319.28	1,227.16	92.11	14.322	
14,100.00	10,252.00	14,079.47	10,259.30	46.99	46.30	90.32	3,793.32	460.87	1,319.28	1,226.21	93.07	14.175	
14,200.00	10,252.00	14,179.47	10,259.30	47.48	46.78	90.32	3,893.32	460.43	1,319.29	1,225.24	94.05	14.028	
14,300.00	10,252.00	14,279.47	10,259.30	47.98	47.28	90.32	3,993.32	460.00	1,319.30	1,224.26	95.04	13.882	
14,400.00	10,252.00	14,379.47	10,259.30	48.48	47.77	90.32	4,093.32	459.56	1,319.30	1,223.26	96.04	13.737	
14,500.00	10,252.00	14,479.47	10,259.30	48.99	48.28	90.32	4,193.32	459.13	1,319.31	1,222.25	97.06	13.593	
14,600.00	10,252.00	14,579.47	10,259.30	49.50	48.79	90.32	4,293.32	458.69	1,319.31	1,221.22	98.09	13.450	
14,700.00	10,252.00	14,679.47	10,259.30	50.03	49.32	90.32	4,393.32	458.26	1,319.32	1,220.19	99.13	13.308	
14,800.00	10,252.00	14,779.47	10,259.30	50.56	49.84	90.32	4,493.32	457.82	1,319.33	1,219.14	100.19	13.168	
14,900.00	10,252.00	14,879.47	10,259.30	51.09	50.37	90.32	4,593.32	457.39	1,319.33	1,218.07	101.26	13.029	
15,000.00	10,252.00	14,979.47	10,259.30	51.63	50.91	90.32	4,693.32	456.95	1,319.34	1,217.00	102.34	12.891	
15,100.00	10,252.00	15,079.47	10,259.30	52.18	51.46	90.32	4,793.32	456.52	1,319.35	1,215.91	103.44	12.755	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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
15,200.00	10,252.00	15,179.47	10,259.30	52.73	52.01	90.32	4,893.31	456.08	1,319.35	1,214.81	104.54	12.620	
15,300.00	10,252.00	15,279.47	10,259.30	53.29	52.56	90.32	4,993.31	455.65	1,319.36	1,213.70	105.66	12.487	
15,400.00	10,252.00	15,379.47	10,259.30	53.85	53.12	90.32	5,093.31	455.21	1,319.37	1,212.59	106.78	12.356	
15,500.00	10,252.00	15,479.47	10,259.30	54.42	53.69	90.32	5,193.31	454.78	1,319.37	1,211.46	107.92	12.226	
15,600.00	10,252.00	15,579.47	10,259.30	54.99	54.26	90.32	5,293.31	454.35	1,319.38	1,210.32	109.06	12.097	
15,700.00	10,252.00	15,679.47	10,259.30	55.57	54.84	90.32	5,393.31	453.91	1,319.39	1,209.17	110.22	11.971	
15,800.00	10,252.00	15,779.47	10,259.30	56.15	55.42	90.32	5,493.31	453.48	1,319.39	1,208.01	111.38	11.846	
15,900.00	10,252.00	15,879.47	10,259.30	56.74	56.00	90.32	5,593.31	453.04	1,319.40	1,206.84	112.56	11.722	
16,000.00	10,252.00	15,979.47	10,259.30	57.33	56.59	90.32	5,693.31	452.61	1,319.41	1,205.67	113.74	11.600	
16,100.00	10,252.00	16,079.47	10,259.30	57.92	57.19	90.32	5,793.31	452.17	1,319.41	1,204.48	114.93	11.480	
16,200.00	10,252.00	16,179.47	10,259.30	58.52	57.78	90.32	5,893.31	451.74	1,319.42	1,203.29	116.13	11.362	
16,300.00	10,252.00	16,279.47	10,259.30	59.12	58.39	90.32	5,993.30	451.30	1,319.43	1,202.09	117.33	11.245	
16,400.00	10,252.00	16,379.47	10,259.30	59.73	58.99	90.32	6,093.30	450.87	1,319.43	1,200.89	118.55	11.130	
16,500.00	10,252.00	16,479.47	10,259.30	60.34	59.60	90.32	6,193.30	450.43	1,319.44	1,199.67	119.77	11.017	
16,600.00	10,252.00	16,579.47	10,259.30	60.95	60.21	90.32	6,293.30	450.00	1,319.44	1,198.45	121.00	10.905	
16,700.00	10,252.00	16,679.47	10,259.30	61.57	60.83	90.32	6,393.30	449.56	1,319.45	1,197.22	122.23	10.795	
16,800.00	10,252.00	16,779.47	10,259.30	62.19	61.45	90.32	6,493.30	449.13	1,319.46	1,195.98	123.47	10.686	
16,900.00	10,252.00	16,879.47	10,259.30	62.82	62.07	90.32	6,593.30	448.69	1,319.46	1,194.74	124.72	10.579	
17,000.00	10,252.00	16,979.47	10,259.30	63.44	62.70	90.32	6,693.30	448.26	1,319.47	1,193.49	125.98	10.474	
17,100.00	10,252.00	17,079.47	10,259.30	64.07	63.33	90.32	6,793.30	447.83	1,319.48	1,192.24	127.24	10.370	
17,200.00	10,252.00	17,179.47	10,259.30	64.71	63.96	90.32	6,893.30	447.39	1,319.48	1,190.98	128.51	10.268	
17,300.00	10,252.00	17,279.47	10,259.30	65.34	64.60	90.32	6,993.29	446.96	1,319.49	1,189.71	129.78	10.167	
17,400.00	10,252.00	17,379.47	10,259.30	65.98	65.24	90.32	7,093.29	446.52	1,319.50	1,188.44	131.06	10.068	
17,500.00	10,252.00	17,479.47	10,259.30	66.62	65.88	90.32	7,193.29	446.09	1,319.50	1,187.16	132.34	9.970	
17,600.00	10,252.00	17,579.47	10,259.30	67.27	66.52	90.32	7,293.29	445.65	1,319.51	1,185.88	133.63	9.874	
17,700.00	10,252.00	17,679.47	10,259.30	67.91	67.17	90.32	7,393.29	445.22	1,319.52	1,184.59	134.93	9.779	
17,800.00	10,252.00	17,779.47	10,259.30	68.56	67.82	90.32	7,493.29	444.78	1,319.52	1,183.29	136.23	9.686	
17,900.00	10,252.00	17,879.47	10,259.30	69.21	68.47	90.32	7,593.29	444.35	1,319.53	1,182.00	137.53	9.594	
18,000.00	10,252.00	17,979.47	10,259.30	69.87	69.13	90.32	7,693.29	443.91	1,319.54	1,180.69	138.84	9.504	
18,100.00	10,252.00	18,079.47	10,259.30	70.52	69.78	90.32	7,793.29	443.48	1,319.54	1,179.38	140.16	9.415	
18,200.00	10,252.00	18,179.47	10,259.30	71.18	70.44	90.32	7,893.29	443.04	1,319.55	1,178.07	141.48	9.327	
18,300.00	10,252.00	18,279.47	10,259.30	71.84	71.10	90.32	7,993.29	442.61	1,319.55	1,176.76	142.80	9.241	
18,400.00	10,252.00	18,379.47	10,259.30	72.51	71.76	90.32	8,093.28	442.17	1,319.56	1,175.43	144.13	9.156	
18,500.00	10,252.00	18,479.47	10,259.30	73.17	72.43	90.32	8,193.28	441.74	1,319.57	1,174.11	145.46	9.072	
18,600.00	10,252.00	18,579.47	10,259.30	73.84	73.10	90.32	8,293.28	441.30	1,319.57	1,172.78	146.79	8.989	
18,700.00	10,252.00	18,679.47	10,259.30	74.51	73.77	90.32	8,393.28	440.87	1,319.58	1,171.45	148.13	8.908	
18,800.00	10,252.00	18,779.47	10,259.30	75.18	74.44	90.32	8,493.28	440.44	1,319.59	1,170.11	149.48	8.828	
18,900.00	10,252.00	18,879.47	10,259.30	75.85	75.11	90.32	8,593.28	440.00	1,319.59	1,168.77	150.82	8.749	
19,000.00	10,252.00	18,979.47	10,259.30	76.53	75.78	90.32	8,693.28	439.57	1,319.60	1,167.43	152.17	8.672	
19,100.00	10,252.00	19,079.47	10,259.30	77.20	76.46	90.32	8,793.28	439.13	1,319.61	1,166.08	153.53	8.595	
19,200.00	10,252.00	19,179.47	10,259.30	77.88	77.14	90.32	8,893.28	438.70	1,319.61	1,164.73	154.88	8.520	
19,300.00	10,252.00	19,279.47	10,259.30	78.56	77.82	90.32	8,993.28	438.26	1,319.62	1,163.37	156.25	8.446	
19,400.00	10,252.00	19,379.47	10,259.30	79.24	78.50	90.32	9,093.28	437.83	1,319.63	1,162.02	157.61	8.373	
19,500.00	10,252.00	19,479.47	10,259.30	79.92	79.18	90.32	9,193.27	437.39	1,319.63	1,160.66	158.98	8.301	
19,600.00	10,252.00	19,579.47	10,259.30	80.61	79.87	90.32	9,293.27	436.96	1,319.64	1,159.29	160.35	8.230	
19,700.00	10,252.00	19,679.47	10,259.30	81.30	80.55	90.32	9,393.27	436.52	1,319.65	1,157.93	161.72	8.160	
19,800.00	10,252.00	19,779.47	10,259.30	81.98	81.24	90.32	9,493.27	436.09	1,319.65	1,156.56	163.10	8.091	
19,900.00	10,252.00	19,879.47	10,259.30	82.67	81.93	90.32	9,593.27	435.65	1,319.66	1,155.18	164.48	8.023	
20,000.00	10,252.00	19,979.47	10,259.30	83.36	82.62	90.32	9,693.27	435.22	1,319.67	1,153.81	165.86	7.957	
20,100.00	10,252.00	20,079.47	10,259.30	84.05	83.31	90.32	9,793.27	434.78	1,319.67	1,152.43	167.24	7.891	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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
20,200.00	10,252.00	20,179.47	10,259.30	84.75	84.01	90.32	9,893.27	434.35	1,319.68	1,151.05	168.63	7.826	
20,300.00	10,252.00	20,279.47	10,259.30	85.44	84.70	90.32	9,993.27	433.92	1,319.68	1,149.67	170.02	7.762	
20,400.00	10,252.00	20,379.47	10,259.30	86.14	85.40	90.32	10,093.27	433.48	1,319.69	1,148.28	171.41	7.699	
20,500.00	10,252.00	20,479.47	10,259.30	86.83	86.09	90.32	10,193.26	433.05	1,319.70	1,146.89	172.81	7.637	
20,600.00	10,252.00	20,579.47	10,259.30	87.53	86.79	90.32	10,293.26	432.61	1,319.70	1,145.50	174.20	7.576	
20,700.00	10,252.00	20,679.47	10,259.30	88.23	87.49	90.32	10,393.26	432.18	1,319.71	1,144.11	175.60	7.515	
20,800.00	10,252.00	20,779.47	10,259.30	88.93	88.19	90.32	10,493.26	431.74	1,319.72	1,142.71	177.00	7.456	
20,900.00	10,252.00	20,879.47	10,259.30	89.63	88.89	90.32	10,593.26	431.31	1,319.72	1,141.32	178.41	7.397	
21,000.00	10,252.00	20,979.47	10,259.30	90.33	89.60	90.32	10,693.26	430.87	1,319.73	1,139.92	179.81	7.339	
21,100.00	10,252.00	21,079.47	10,259.30	91.04	90.30	90.32	10,793.26	430.44	1,319.74	1,138.52	181.22	7.282	
21,200.00	10,252.00	21,179.47	10,259.30	91.74	91.00	90.32	10,893.26	430.00	1,319.74	1,137.11	182.63	7.226	
21,300.00	10,252.00	21,279.47	10,259.30	92.45	91.71	90.32	10,993.26	429.57	1,319.75	1,135.71	184.04	7.171	
21,400.00	10,252.00	21,379.47	10,259.30	93.15	92.42	90.32	11,093.26	429.13	1,319.76	1,134.30	185.46	7.116	
21,500.00	10,252.00	21,479.47	10,259.30	93.86	93.13	90.32	11,193.26	428.70	1,319.76	1,132.89	186.87	7.062	
21,600.00	10,252.00	21,579.47	10,259.30	94.57	93.83	90.32	11,293.25	428.26	1,319.77	1,131.48	188.29	7.009	
21,700.00	10,252.00	21,679.47	10,259.30	95.28	94.54	90.32	11,393.25	427.83	1,319.78	1,130.06	189.71	6.957	
21,800.00	10,252.00	21,779.47	10,259.30	95.99	95.25	90.32	11,493.25	427.39	1,319.78	1,128.65	191.13	6.905	
21,900.00	10,252.00	21,879.47	10,259.30	96.70	95.97	90.32	11,593.25	426.96	1,319.79	1,127.23	192.56	6.854	
22,000.00	10,252.00	21,979.47	10,259.30	97.41	96.68	90.32	11,693.25	426.53	1,319.79	1,125.81	193.98	6.804	
22,100.00	10,252.00	22,079.47	10,259.30	98.13	97.39	90.32	11,793.25	426.09	1,319.80	1,124.39	195.41	6.754	
22,200.00	10,252.00	22,179.47	10,259.30	98.84	98.11	90.32	11,893.25	425.66	1,319.81	1,122.97	196.84	6.705	
22,300.00	10,252.00	22,279.47	10,259.30	99.55	98.82	90.32	11,993.25	425.22	1,319.81	1,121.55	198.27	6.657	
22,400.00	10,252.00	22,379.47	10,259.30	100.27	99.54	90.32	12,093.25	424.79	1,319.82	1,120.12	199.70	6.609	
22,500.00	10,252.00	22,479.47	10,259.30	100.99	100.25	90.32	12,193.25	424.35	1,319.83	1,118.69	201.13	6.562	
22,600.00	10,252.00	22,579.47	10,259.30	101.70	100.97	90.32	12,293.24	423.92	1,319.83	1,117.26	202.57	6.515	
22,700.00	10,252.00	22,679.47	10,259.30	102.42	101.69	90.32	12,393.24	423.48	1,319.84	1,115.83	204.01	6.470	
22,800.00	10,252.00	22,779.47	10,259.30	103.14	102.41	90.32	12,493.24	423.05	1,319.85	1,114.40	205.44	6.424	
22,900.00	10,252.00	22,879.47	10,259.30	103.86	103.13	90.32	12,593.24	422.61	1,319.85	1,112.97	206.88	6.380	
23,000.00	10,252.00	22,979.47	10,259.30	104.58	103.85	90.32	12,693.24	422.18	1,319.86	1,111.54	208.32	6.336	
23,100.00	10,252.00	23,079.47	10,259.30	105.30	104.57	90.32	12,793.24	421.74	1,319.87	1,110.10	209.77	6.292	
23,200.00	10,252.00	23,179.47	10,259.30	106.02	105.29	90.32	12,893.24	421.31	1,319.87	1,108.66	211.21	6.249	
23,300.00	10,252.00	23,279.47	10,259.30	106.74	106.01	90.32	12,993.24	420.87	1,319.88	1,107.23	212.65	6.207	
23,400.00	10,252.00	23,379.47	10,259.30	107.46	106.73	90.32	13,093.24	420.44	1,319.89	1,105.79	214.10	6.165	
23,500.00	10,252.00	23,479.47	10,259.30	108.19	107.46	90.32	13,193.24	420.01	1,319.89	1,104.35	215.55	6.123	
23,600.00	10,252.00	23,579.47	10,259.30	108.91	108.18	90.32	13,293.24	419.57	1,319.90	1,102.90	217.00	6.083	
23,700.00	10,252.00	23,679.47	10,259.30	109.63	108.91	90.32	13,393.23	419.14	1,319.91	1,101.46	218.44	6.042	
23,800.00	10,252.00	23,779.47	10,259.30	110.36	109.63	90.32	13,493.23	418.70	1,319.91	1,100.02	219.90	6.002	
23,900.00	10,252.00	23,879.47	10,259.30	111.08	110.36	90.32	13,593.23	418.27	1,319.92	1,098.57	221.35	5.963	
24,000.00	10,252.00	23,979.47	10,259.30	111.81	111.08	90.32	13,693.23	417.83	1,319.92	1,097.12	222.80	5.924	
24,100.00	10,252.00	24,079.47	10,259.30	112.54	111.81	90.32	13,793.23	417.40	1,319.93	1,095.68	224.26	5.886	
24,200.00	10,252.00	24,179.47	10,259.30	113.26	112.54	90.32	13,893.23	416.96	1,319.94	1,094.23	225.71	5.848	
24,300.00	10,252.00	24,279.47	10,259.30	113.99	113.27	90.32	13,993.23	416.53	1,319.94	1,092.78	227.17	5.810	
24,400.00	10,252.00	24,379.47	10,259.30	114.72	113.99	90.32	14,093.23	416.09	1,319.95	1,091.33	228.62	5.773	
24,500.00	10,252.00	24,479.47	10,259.30	115.45	114.72	90.32	14,193.23	415.66	1,319.96	1,089.87	230.08	5.737	
24,600.00	10,252.00	24,579.47	10,259.30	116.18	115.45	90.32	14,293.23	415.22	1,319.96	1,088.42	231.54	5.701	
24,700.00	10,252.00	24,679.47	10,259.30	116.91	116.18	90.32	14,393.23	414.79	1,319.97	1,086.97	233.00	5.665	
24,800.00	10,252.00	24,779.47	10,259.30	117.64	116.91	90.32	14,493.22	414.35	1,319.98	1,085.51	234.46	5.630	
24,900.00	10,252.00	24,879.47	10,259.30	118.37	117.65	90.32	14,593.22	413.92	1,319.98	1,084.06	235.93	5.595	
25,000.00	10,252.00	24,979.47	10,259.30	119.10	118.38	90.32	14,693.22	413.49	1,319.99	1,082.60	237.39	5.560	
25,100.00	10,252.00	25,079.47	10,259.30	119.83	119.11	90.32	14,793.22	413.05	1,320.00	1,081.14	238.85	5.526	
25,200.00	10,252.00	25,179.47	10,259.30	120.56	119.84	90.32	14,893.22	412.62	1,320.00	1,079.68	240.32	5.493	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Laguna Deep 2-26 Federal Com Pad - Laguna Deep 2-26 Federal Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

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
25,300.00	10,252.00	25,279.47	10,259.30	121.30	120.57	90.32	14,993.22	412.18	1,320.01	1,078.22	241.79	5.459	
25,400.00	10,252.00	25,379.47	10,259.30	122.03	121.31	90.32	15,093.22	411.75	1,320.02	1,076.76	243.25	5.427	
25,500.00	10,252.00	25,479.47	10,259.30	122.76	122.04	90.32	15,193.22	411.31	1,320.02	1,075.30	244.72	5.394	
25,600.00	10,252.00	25,579.47	10,259.30	123.50	122.78	90.32	15,293.22	410.88	1,320.03	1,073.84	246.19	5.362	
25,694.09	10,252.00	25,673.56	10,259.30	124.20	123.47	90.32	15,387.30	410.47	1,320.03	1,072.46	247.57	5.332	SF

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sapphire 14-23 Federal Com Pad - (O) Sapphire Fed 001 - P&A - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 140-INC-ONLY

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
25,300.00	10,252.00	10,287.05	10,252.00	121.30	240.52	90.00	17,132.12	-618.23	2,164.10	1,873.21	290.89	7.440	
25,400.00	10,252.00	10,287.05	10,252.00	122.03	240.52	90.00	17,132.12	-618.23	2,065.11	1,773.77	291.34	7.088	
25,500.00	10,252.00	10,287.05	10,252.00	122.76	240.52	90.00	17,132.12	-618.23	1,966.21	1,674.38	291.83	6.737	
25,600.00	10,252.00	10,287.05	10,252.00	123.50	240.52	90.00	17,132.12	-618.23	1,867.44	1,575.06	292.38	6.387	
25,694.09	10,252.00	10,287.05	10,252.00	124.20	240.52	90.00	17,132.12	-618.23	1,774.63	1,475.76	298.87	5.938	CC, ES, SF

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sapphire 14-23 Federal Com Pad - Sapphire 14-23 Federal Com 502H - 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
24,200.00	10,252.00	20,130.78	9,892.40	113.26	85.82	-74.84	15,574.34	-2,237.54	2,180.81	2,044.58	136.23	16.008	
24,300.00	10,252.00	20,130.78	9,892.40	113.99	85.82	-74.84	15,574.34	-2,237.54	2,104.13	1,964.08	140.05	15.024	
24,400.00	10,252.00	20,130.78	9,892.40	114.72	85.82	-74.84	15,574.34	-2,237.54	2,029.49	1,885.37	144.12	14.081	
24,500.00	10,252.00	20,130.78	9,892.40	115.45	85.82	-74.84	15,574.34	-2,237.54	1,957.11	1,808.66	148.45	13.183	
24,600.00	10,252.00	20,130.78	9,892.40	116.18	85.82	-74.84	15,574.34	-2,237.54	1,887.26	1,734.22	153.03	12.332	
24,700.00	10,252.00	20,130.78	9,892.40	116.91	85.82	-74.84	15,574.34	-2,237.54	1,820.22	1,662.37	157.85	11.531	
24,800.00	10,252.00	20,130.78	9,892.40	117.64	85.82	-74.84	15,574.34	-2,237.54	1,756.32	1,593.43	162.89	10.782	
24,900.00	10,252.00	20,130.78	9,892.40	118.37	85.82	-74.84	15,574.34	-2,237.54	1,695.91	1,527.80	168.11	10.088	
25,000.00	10,252.00	20,130.78	9,892.40	119.10	85.82	-74.84	15,574.34	-2,237.54	1,639.38	1,465.93	173.45	9.451	
25,100.00	10,252.00	20,130.78	9,892.40	119.83	85.82	-74.84	15,574.34	-2,237.54	1,587.14	1,408.28	178.86	8.874	
25,200.00	10,252.00	20,130.78	9,892.40	120.56	85.82	-74.84	15,574.34	-2,237.54	1,539.64	1,355.40	184.24	8.357	
25,300.00	10,252.00	20,130.78	9,892.40	121.30	85.82	-74.84	15,574.34	-2,237.54	1,497.31	1,307.83	189.48	7.902	
25,400.00	10,252.00	20,130.78	9,892.40	122.03	85.82	-74.84	15,574.34	-2,237.54	1,460.61	1,266.15	194.47	7.511	
25,500.00	10,252.00	20,130.78	9,892.40	122.76	85.82	-74.84	15,574.34	-2,237.54	1,429.98	1,230.93	199.05	7.184	
25,600.00	10,252.00	20,130.78	9,892.40	123.50	85.82	-74.84	15,574.34	-2,237.54	1,405.81	1,202.73	203.09	6.922	
25,694.09	10,252.00	20,130.78	9,892.40	124.20	85.82	-74.84	15,574.34	-2,237.54	1,389.27	1,182.88	206.39	6.731	CC, ES, SF

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sapphire 14-23 Federal Com Pad - Sapphire 14-23 Federal Com 503H - 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
23,700.00	10,252.00	20,112.80	9,877.50	109.63	86.00	-0.01	15,580.84	-910.45	2,225.11	2,135.77	89.34	24.907	
23,800.00	10,252.00	20,112.80	9,877.50	110.36	86.00	-0.01	15,580.84	-910.45	2,126.60	2,036.69	89.91	23.653	
23,900.00	10,252.00	20,112.80	9,877.50	111.08	86.00	-0.01	15,580.84	-910.45	2,028.24	1,937.69	90.55	22.399	
24,000.00	10,252.00	20,112.80	9,877.50	111.81	86.00	-0.01	15,580.84	-910.45	1,930.05	1,838.77	91.28	21.145	
24,100.00	10,252.00	20,112.80	9,877.50	112.54	86.00	-0.01	15,580.84	-910.45	1,832.05	1,739.95	92.10	19.892	
24,200.00	10,252.00	20,112.80	9,877.50	113.26	86.00	-0.01	15,580.84	-910.45	1,734.28	1,641.23	93.05	18.639	
24,300.00	10,252.00	20,112.80	9,877.50	113.99	86.00	-0.01	15,580.84	-910.45	1,636.78	1,542.64	94.14	17.386	
24,400.00	10,252.00	20,112.80	9,877.50	114.72	86.00	-0.01	15,580.84	-910.45	1,539.61	1,444.18	95.42	16.134	
24,500.00	10,252.00	20,112.80	9,877.50	115.45	86.00	-0.01	15,580.84	-910.45	1,442.82	1,345.88	96.93	14.884	
24,600.00	10,252.00	20,112.80	9,877.50	116.18	86.00	-0.01	15,580.84	-910.45	1,346.49	1,247.76	98.73	13.638	
24,700.00	10,252.00	20,112.80	9,877.50	116.91	86.00	-0.01	15,580.84	-910.45	1,250.75	1,149.85	100.90	12.396	
24,800.00	10,252.00	20,112.80	9,877.50	117.64	86.00	-0.01	15,580.84	-910.45	1,155.72	1,052.19	103.54	11.163	
24,900.00	10,252.00	20,112.80	9,877.50	118.37	86.00	-0.01	15,580.84	-910.45	1,061.61	954.83	106.78	9.942	
25,000.00	10,252.00	20,112.80	9,877.50	119.10	86.00	-0.01	15,580.84	-910.45	968.68	857.86	110.82	8.741	
25,100.00	10,252.00	20,112.80	9,877.50	119.83	86.00	-0.01	15,580.84	-910.45	877.31	761.41	115.90	7.569	
25,200.00	10,252.00	20,112.80	9,877.50	120.56	86.00	-0.01	15,580.84	-910.45	788.04	665.67	122.37	6.440	
25,300.00	10,252.00	20,112.80	9,877.50	121.30	86.00	-0.01	15,580.84	-910.45	701.66	571.04	130.63	5.371	
25,400.00	10,252.00	20,112.80	9,877.50	122.03	86.00	-0.01	15,580.84	-910.45	619.40	478.21	141.19	4.387	
25,500.00	10,252.00	20,112.80	9,877.50	122.76	86.00	-0.01	15,580.84	-910.45	543.13	388.64	154.49	3.516	
25,600.00	10,252.00	20,112.80	9,877.50	123.50	86.00	-0.01	15,580.84	-910.45	475.72	305.22	170.50	2.790	
25,694.09	10,252.00	20,112.80	9,877.50	124.20	86.00	-0.01	15,580.84	-910.45	424.22	235.51	188.71	2.248	CC, ES, SF

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sapphire 14-23 Federal Com Pad - Sapphire 14-23 Federal Com 504H - 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
24,200.00	10,252.00	20,128.64	9,872.50	113.26	86.16	73.96	15,589.31	409.52	2,182.38	2,035.04	147.33	14.813	
24,300.00	10,252.00	20,128.64	9,872.50	113.99	86.16	73.96	15,589.31	409.52	2,105.60	1,954.54	151.07	13.938	
24,400.00	10,252.00	20,128.64	9,872.50	114.72	86.16	73.96	15,589.31	409.52	2,030.85	1,875.84	155.01	13.101	
24,500.00	10,252.00	20,128.64	9,872.50	115.45	86.16	73.96	15,589.31	409.52	1,958.36	1,799.19	159.17	12.304	
24,600.00	10,252.00	20,128.64	9,872.50	116.18	86.16	73.96	15,589.31	409.52	1,888.37	1,724.85	163.53	11.548	
24,700.00	10,252.00	20,128.64	9,872.50	116.91	86.16	73.96	15,589.31	409.52	1,821.19	1,653.12	168.07	10.836	
24,800.00	10,252.00	20,128.64	9,872.50	117.64	86.16	73.96	15,589.31	409.52	1,757.14	1,584.37	172.77	10.170	
24,900.00	10,252.00	20,128.64	9,872.50	118.37	86.16	73.96	15,589.31	409.52	1,696.57	1,518.99	177.58	9.554	
25,000.00	10,252.00	20,128.64	9,872.50	119.10	86.16	73.96	15,589.31	409.52	1,639.86	1,457.41	182.45	8.988	
25,100.00	10,252.00	20,128.64	9,872.50	119.83	86.16	73.96	15,589.31	409.52	1,587.43	1,400.13	187.31	8.475	
25,200.00	10,252.00	20,128.64	9,872.50	120.56	86.16	73.96	15,589.31	409.52	1,539.72	1,347.67	192.05	8.017	
25,300.00	10,252.00	20,128.64	9,872.50	121.30	86.16	73.96	15,589.31	409.52	1,497.18	1,300.60	196.58	7.616	
25,400.00	10,252.00	20,128.64	9,872.50	122.03	86.16	73.96	15,589.31	409.52	1,460.25	1,259.49	200.76	7.274	
25,500.00	10,252.00	20,128.64	9,872.50	122.76	86.16	73.96	15,589.31	409.52	1,429.38	1,224.92	204.46	6.991	
25,600.00	10,252.00	20,128.64	9,872.50	123.50	86.16	73.96	15,589.31	409.52	1,404.97	1,197.42	207.55	6.769	
25,694.09	10,252.00	20,128.64	9,872.50	124.20	86.16	73.96	15,589.31	409.52	1,388.19	1,178.22	209.98	6.611	CC, ES, SF

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

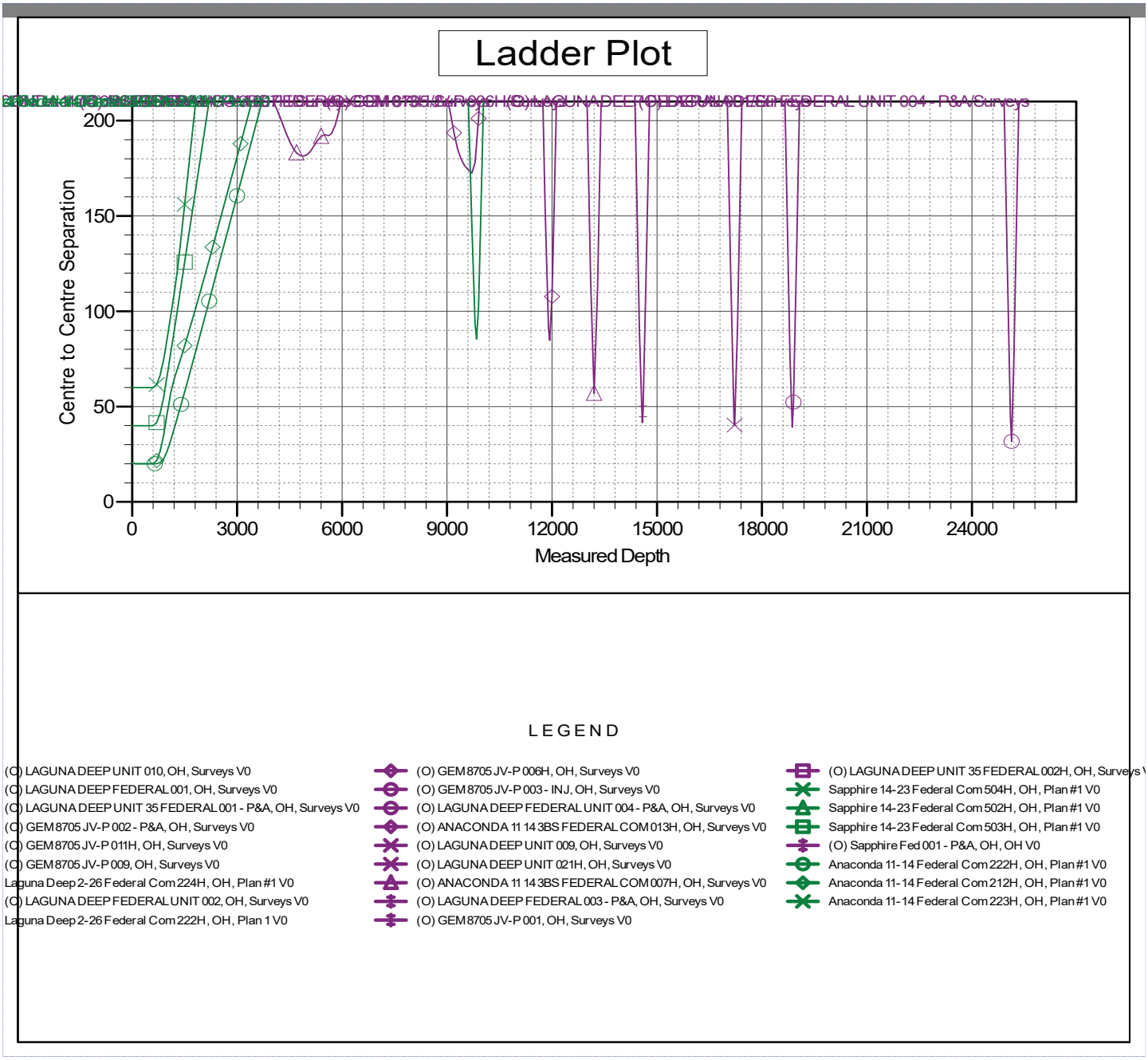
Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GE 3580.4' + KB 26.5' @ 3606.90usft (H
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Laguna Deep 2-26 Federal Com 223H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.38°



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

Total Directional

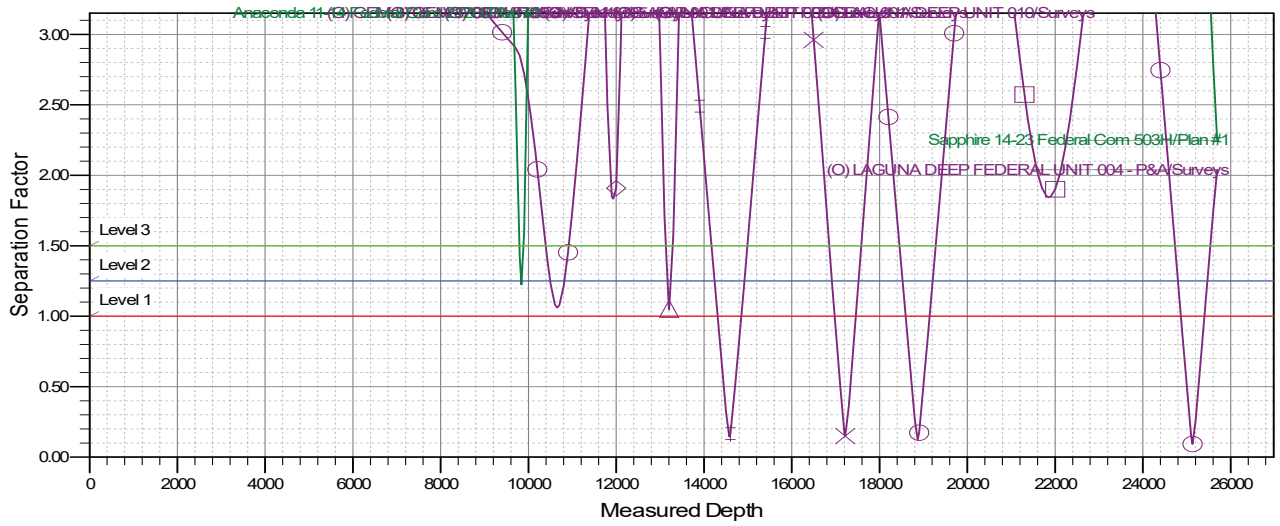
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Laguna Deep 2-26 Federal Com 223H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Reference Site:	Laguna Deep 2-26 Federal Com Pad	**MD Reference:**	GE 3580.4' + KB 26.5' @ 3606.90usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Laguna Deep 2-26 Federal Com 223H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GE 3580.4' + KB 26.5' @ 3606.90usft (H
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Laguna Deep 2-26 Federal Com 223H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.38°

Separation Factor Plot



LEGEND

(O) LAGUNA DEEP UNIT 010, OH, Surveys V0
(O) LAGUNA DEEP FEDERAL 001, OH, Surveys V0
(O) LAGUNA DEEP UNIT 35 FEDERAL 001 - P&A, OH, Surveys V0
(O) GEM 8705 JV-P 002 - P&A, OH, Surveys V0
(O) GEM 8705 JV-P 011H, OH, Surveys V0
(O) GEM 8705 JV-P 009, OH, Surveys V0
Laguna Deep 2-26 Federal Com 224H, OH, Plan #1 V0
(O) LAGUNA DEEP FEDERAL UNIT 002, OH, Surveys V0
Laguna Deep 2-26 Federal Com 222H, OH, Plan 1 V0
(O) GEM 8705 JV-P 006H, OH, Surveys V0
(O) GEM 8705 JV-P 003 - INJ, OH, Surveys V0
(O) LAGUNA DEEP FEDERAL UNIT 004 - P&A, OH, Surveys V0
(O) ANACONDA 11 14 3BS FEDERAL COM 013H, OH, Surveys V0
(O) LAGUNA DEEP UNIT 009, OH, Surveys V0
(O) LAGUNA DEEP UNIT 021H, OH, Surveys V0
(O) ANACONDA 11 14 3BS FEDERAL COM 007H, OH, Surveys V0
(O) LAGUNA DEEP FEDERAL 003 - P&A, OH, Surveys V0
(O) GEM 8705 JV-P 001, OH, Surveys V0
(O) LAGUNA DEEP UNIT 35 FEDERAL 002H, OH, Surveys V
Sapphire 14-23 Federal Com 504H, OH, Plan #1 V0
Sapphire 14-23 Federal Com 502H, OH, Plan #1 V0
Sapphire 14-23 Federal Com 503H, OH, Plan #1 V0
(O) Sapphire Fed 001 - P&A, OH, OH V0
Anaconda 11-14 Federal Com 222H, OH, Plan #1 V0
Anaconda 11-14 Federal Com 212H, OH, Plan #1 V0
Anaconda 11-14 Federal Com 223H, OH, Plan #1 V0

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 pipe ram.
5. Open the HCR valve.
6. Check systems, bump float. Record Initial Shut in Drill pipe pressure and Initial shut in casing pressure.

Soft Shut-In for Annular on Casing

1. Remote choke is opened.
2. Stop pumping and space out.
3. Check for flow.
4. To shut in, close annular.
5. Slowly close the HCR
6. Record shut-in pressure (SIDPP & SICP)
7. 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.

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.

Ram Configuration

In order from top to bottom (Deviation to this configuration requires a discussion with your engineer and superintendent).

A. 5M Annular bag
   - Per API 53 5.1.3.1 a 5M Annular BOP will be used

B. 10M Top pipe rams
   - Top pipe rams may be VBR's to match drill pipe size being used or fixed to casing ran.

C. 10M Blind rams

D. Mud Cross
   - Kill Line Side: check valve and two manual valves (10M). The outer most manual valve is to be closed and the inner most valve is open under normal operations.
   - Choke Side: a manual valve and a HCR (hydraulic remote controlled valve) (10M). The manual valve is open and the HCR valve is closed under normal operations.

E. 10M VBR
   - Bottom pipe rams should match the drill pipe ran or appropriate sized VBR's (variable bore rams).

- Minimum bore diameter of BOP stack equipment shall be at least equal to the bore diameter of the uppermost casing head.
- Flare line to be ran a minimum of 100' away from wellhead toward the edge of pad.

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: COTERRA ENERGY OPERATING CO. **OGRID:** 215099 **Date:** 7 / 15 / 2026

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
LAGUNA DEEP 2 26 FED COM #223H		Sec 2 T20S, R33E	339 FSL/1137 FEL	1,435	1,081	3,570

IV. Central Delivery Point Name: Anaconda 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
LAGUNA DEEP 2 26 FED COM #223H		10/10/2026	11/15/2026	8/11/2027	9/7/2027	9/7/2027

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:	Cole Carter
Printed Name:	Cole Carter
Title:	Regulatory Consultant
E-mail Address:	cole.carter@dvn.com
Date:	7/15/2026
Phone:	(910) 510-2671

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

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

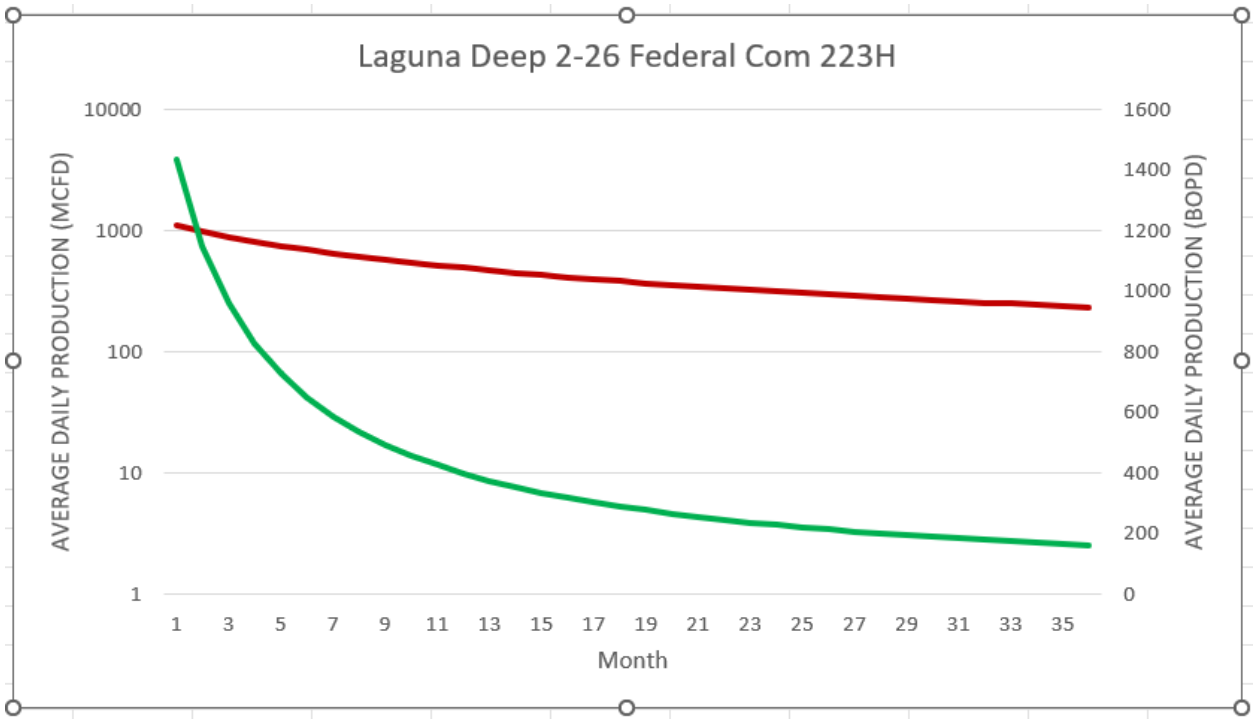
From State of New Mexico, Natural Gas Management Plan

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.

LAGUNA DEEP 2-26 FED COM 223H	
OIL - BOPD	GAS - MCFPD
1435	1081
1148	970
959	880
825	806
725	744
647	691
585	645
534	606
491	571
455	540
424	512
397	487
373	465
352	444
334	426
317	409
302	393
288	379
276	365
265	353
254	341
245	330
236	320
227	311
220	302
213	293
206	285
200	278
194	271
188	264
183	258
178	252
173	246
169	240
165	235
161	230


Laguna Deep 2-26 Federal Com 223H
AVERAGE DAILY PRODUCTION (MCFD)
10000
1000
100
10
1
AVERAGE DAILY PRODUCTION (BOPD)
1600
1400
1200
1000
800
600
400
200
0
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35
Month

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.

CASING DEPTHS AND CEMENT CALCULATIONS

13-3/8 Surface		10-3/4 Intermediate		8-5/8 Intermediate II		5-1/2 Production	
		Previous Casing Depth		Previous Casing Depth		Previous Casing Depth	
		Depth (ft)	1494	Depth (ft)	3325	Depth (ft)	5355
		Casing ID (in)	12.615	Casing ID (in)	10.05	Casing ID (in)	7.921
Casing Setting Details		**Casing Setting Details**		**Casing Setting Details**		**Casing Setting Details**	
Depth (ft)	1494	Depth (ft)	3325	Depth (ft)	5355	Depth (ft)	25693
Vertical casing OD (in)	13.375	Casing OD (in)	10.75	Casing OD (in)	8.625	Casing OD (in)	5.5
Casing Weight (lb/ft)	54.5	Casing Weight (lb/ft)	45.5	Casing Weight (lb/ft)	32	Casing Weight (lb/ft)	23
Casing Collapse (psi)	1130	Casing Collapse (psi)	2090	Casing Collapse (psi)	4300	Casing Collapse (psi)	14540
Collapse SF	1.75	Collapse SF	1.20	Collapse SF	1.86	Collapse SF	1.21
Casing Burst (psi)	2740	Casing Burst (psi)	3290	Casing Burst (psi)	6250	Casing Burst (psi)	14530
Burst SF	4.23	Burst SF	1.88	Burst SF	2.70	Burst SF	1.21
Casing Tension Limit (lbs)	853,000	Casing Tension Limit (lbs)	796,000	Casing Tension Limit (lbs)	789,000	Casing Tension Limit (lbs)	729,000
Unbouyed Tension SF	10.48	Unbouyed Tension SF	5.26	Unbouyed Tension SF	4.60	Unbouyed Tension SF	3.09
Hole Details		**Hole Details**		**Hole Details**		**Hole Details**	
OH TD (md)	1494	OH TD (md)	3325	OH TD (md)	5355	OH TD (md)	25693
Hole OD (in)	17.5	Hole OD (in)	12.25	Hole OD (in)	9.875	Hole OD (in)	7.875
Mud Weight (ppg)	8.33	Vertical OH Length (ft) *[TD - MD surface casing]*	1831	Vertical OH Length (ft) *[TD - MD surface casing]*	2030	Vertical OH Length (ft) *[TD - MD surface casing]*	20338
		Mud Weight (ppg)	10.1	Mud Weight (ppg)	8.3	Mud Weight (ppg)	9
						TVD	10252
Cement Details		**Cement Details**		**Cement Details**		**Cement Details**	
Lead Weight (ppg)	13.5	Lead Weight (ppg)	12.9	Lead Weight (ppg)	12.9	Squeeze Weight	9
Lead Yield (ft^3/sk)	1.72	Lead Yield (ft^3/sk)	1.88	Lead Yield (ft^3/sk)	1.88	Squeeze Yield (ft^3/sk)	1.44
Lead OH Excess	50%	Lead OH Excess	50%	Lead OH Excess	50%	Squeeze OH Excess	0%
		Top of Lead	0	Top of Lead	0	Top of Squeeze	4855
		Bottom of Lead	2325	Bottom of Lead	4355	Bottom of Squeeze	8294
		Height of Lead	2325	Height of Lead	4355	Height of Squeeze	3439
Tail Weight (ppg)	14.8	Tail Weight (ppg)	14.8	Tail Weight (ppg)	14.8	Tail Weight (ppg)	14.2
Tail Yield (ft^3/sk)	1.34	Tail Yield (ft^3/sk)	1.34	Tail Yield (ft^3/sk)	1.2	Tail Yield (ft^3/sk)	1.2
Tail OH Excess	25%	Tail OH Excess	50%	Tail OH Excess	50%	Tail OH Excess	0%
		Top of Tail	2325	Top of Tail	4355	Top of Tail	8294
		Height of Tail	1000	Height of Tail	1000	Length of Tail	17399
						Bone Spring Lime Top	8294
Surface Cement Volumes		**Cement Volumes**		**Cement Volumes**		**Cement Volumes**	
Lead Sacks	784	Lead Sacks	274	Lead Sacks	327	Squeeze Sacks	414
Tail Sacks	130	Tail Sacks	211	Tail Sacks	158	Tail Sacks	2512
Lead: 13.5 ppg Class C + Bentonite		Lead: 12.9 ppg 35:65 Poz:C + Salt + Bentonite		Lead: 12.9 ppg 35:65 Poz:C + Salt + Bentonite			
Tail: 14.8 ppg Class C + LCM		Tail: 14.8 ppg Class C + LCM		Tail: 14.8 ppg Class C + LCM		Tail: 14.2 ppg 5050 Poz:H + Salt + Bentonite + Fluid Loss + Dispersant	
						Squeeze: Class C + Additives	

CEMENT SUMMARY

Casing	#sks	Wt. lb/gal	Yld ft3/sack	H20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	784	13.50	1.72	9.33	7.1	Lead: Class C + Bentonite
	130	14.80	1.34	6.4	4.4	Tail: Class C + LCM
Intermediate 1	274	12.90	1.88	12.7	8.15	Lead: 35:65 Poz:C + Salt + Bentonite
	211	14.80	1.34	6.4	4.4	Tail: Class C + LCM
Intermediate 2	327	12.90	1.88	12.7	8.15	Lead: 35:65 Poz:C + Salt + Bentonite
	158	14.80	1.20	6.4	4.4	Tail: Class C + LCM
Production						
	2512	14.20	1.20	5.31	4.1	Tail: 5050 Poz:H + Salt + Bentonite + Fluid Loss + Dispersant
Squeeze	414	9	1.44	9.72		Class C Cement + Additives

Squeeze Notes	
Squeeze Displacement	153
Top of Squeeze (500' inside 8-5/8 Shoe)	4855
All cement tops will be verified by Cement Bond Log	

Cementing and Control Measures

1. All surface and intermediate strings will be kept full while running to prevent from approaching collapse pressure.
2. Surface casing will circulate cement to the surface to protect freshwater zones.
3. First Intermediate casing will be set below the base of the salt and the Second Intermediate casing will be set at the base of the Capitan Reef.
4. Both intermediates will be cemented to surface to prevent fluid migration behind casing, providing a continuous cement column through the salt and potash depths.
5. WOC > 8 hours & >500psi strength will be observed before drilling ahead.
6. Drilling fluids will be compatible with salt/potash, to contain saturated salts to reduce dissolution, to be no > 3% calcium chloride. Cement slurries may be adjusted to minimize dissolution of soluble salts.
7. Production cement will be raised to the base of the Brushy Canyon to allow a pressure relief zone in the event the production casing bursts during completion.
8. The production casing annulus will be monitored continuously during completion.
9. Following completion, a bradenhead squeeze will be performed to tie cement back from the stage 1 TOC to the Second Intermediate shoe (but below the potash interval).
10. CBL will be used to confirm TOC on the production casing.
11. Will remedially top out surface with 3/4" tubing if necessary.

Production Mud Weight	9	lb/gal
Bottom Hole Pressure	4798	psi

OPERATIONAL NOTES

1. All surface and intermediate strings will be kept full while running to prevent from approaching collapse pressure.
2. Surface casing will circulate cement to the surface to protect freshwater zones.
3. First Intermediate casing will be set below the base of the salt and the Second Intermediate casing will be set at the base of the Capitan Reef.
4. Both intermediates will be cemented to surface to prevent fluid migration behind casing, providing a continuous cement column through the salt and potash depths
5. WOC > 8 hours & >500psi strength will be observed before drilling ahead.
6. Drilling fluids will be compatible with salt/potash, to contain saturated salts to reduce dissolution, to be no >3% calcium chloride. Cement slurries may be adjusted to minimize dissolution of soluble salts.
7. Production cement will be raised to the base of the Brushy Canyon to allow a pressure relief zone in the event the production casing bursts during completion
8. The production casing annulus will be monitored continuously during completion
9. Following completion, a bradenhead squeeze will be performed to tie cement back from the stage 1 TOC to the Second Intermediate shoe (but below the potash interval
10. Temperature or CBL will be used to confirm TOC on the production casing

Casing Summary

	OH	Casing Depth From	Casing Depth To	Casing Setting Depth TVD	Size	Weight	Grade	Connection	SF Collapse	SF Burst	SF Tension
Surface	17.5	0	1494	1494	13.375	54.5	J55	BTC	1.75	4.23	10.48
Intermediate 1	12.25	0	3325	3325	10.75	45.5	J55	BTC SC	1.20	1.88	5.26
Intermediate 2	9.875	0	5355	5355	8.625	32	P110	MOXFL	1.86	2.70	4.60
Production	7.875	0	25693	10252	5.5	23	P110	BTC	1.21	1.21	3.09

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

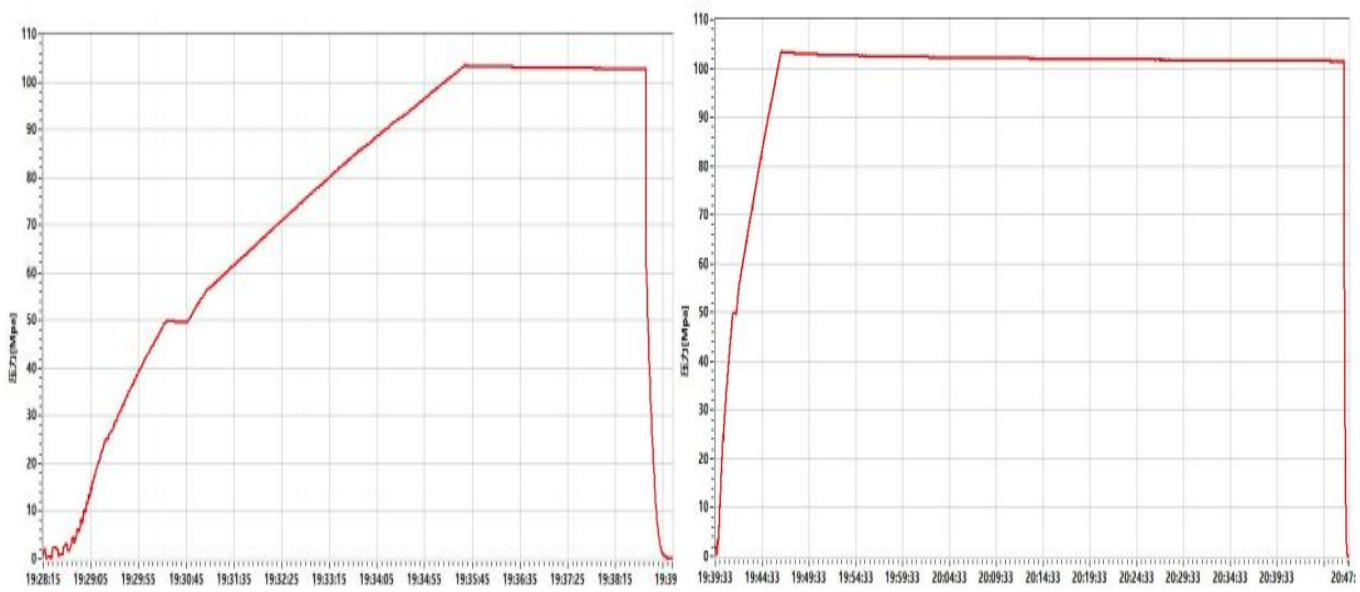
LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

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

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
10/22/2026

APD ID: 10400112414
Submission Date: 07/15/2026
Operator Name: COTERRA ENERGY OPERATING CO
Well Name: LAGUNA DEEP 2-26 FEDERAL COM
Well Number: 223H
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:

Laguna_Deep_Anaconda_E2_PAD_Access_Road_Maps_Revised_081026_20260811083016.pdf
Laguna_Deep_Anaconda_W2_Pad_Access_Road_Maps_Revised_081126_20260819095424.pdf

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

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Resurfacing of existing roads and upgrades will be completed to accommodate equipment and safe general access if needed.
Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Laguna_Deep_Anaconda_E2_PAD_Access_Road_Maps_Revised_081026_20260811083042.pdf
Laguna_Deep_Anaconda_W2_Pad_Access_Road_Maps_Revised_081126_20260819103431.pdf

New road type: COLLECTOR,LOCAL

Length: 3517 Feet
Width (ft.): 30

Max slope (%): 5
Max grade (%): 8

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Best management practices will be used for E&S controls.

New road access plan or profile prepared? N

New road access plan

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: GRAVEL

Access topsoil source: BOTH

Access surfacing type description:

Access onsite topsoil source depth: 4

Offsite topsoil source description: Both onsite and offsite if necessary.

Onsite topsoil removal process: The topsoil shall be stripped and savlaged to provide for sufficient quantities to be respread to a depth of 4" as determined in the onsite, as needed to disturbed areas needed reclamation. Topsoil shall be stockpiled separately from subsoil materials.

Access other construction information: NA

Access miscellaneous information: NA

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Best management practices will be used for E&S controls.

Road Drainage Control Structures (DCS) description: Drainage structures or drainage dips will be placed in natural drainage ways.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

Laguna_Deep_Anaconda_E2_Pad_Wells_within_1_Mile_Map_and_Table_20260710143232.pdf

Laguna_Deep_Anaconda_W2_Pad_Wells_within_1_Mile_Map_and_Table_20260819103508.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production/CTB will be located northwest of the E2 pad. Bulklines will run from E2 and W2 pads.

Production Facilities map:

D_260065_20_100__GENERAL_ARRANGEMENT_PLOT_PLAN_Rev.0__1__20260408083418.pdf

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

LAGUNA_DEEP_ANACONDA_CTB_Construction_Layout_Drawings_20260710143249.pdf
Laguna_Deep_Anaconda_E2_PAD_Bulk_Pipeline_Plats_081026_20260811065134.pdf
Laguna_Deep_Anaconda_W2_Pad_Overall_Flowline_Maps_20260819103539.pdf
Laguna_Deep_Anaconda_W2_Pad_Bulk_Pipeline_Maps_20260819103547.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Freshwater from Kenneth Smith ranch

Water source use type: SURFACE CASING

INTERMEDIATE/PRODUCTION CASING

Source latitude: **Source longitude:**

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 5000 **Source volume (acre-feet):** 0.64446548

Source volume (gal): 210000

Water source and transportation

Hamon_to_LD_A_Pads_20260610121011.pdf

Water source comments: Water will be sourced from the Coterra Hamon Pond 32.586251, -103.606710

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:**

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

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: Caliche will be obtained from the actual well site if available. In the event that no caliche is found onsite, caliche will be hauled in from BLM-approved caliche pit in Sec 4 SWSW 19S, 34E

Construction Materials source location

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Drilling Fluids, drill cuttings, water and other waste produced from the well during drilling operations.

Amount of waste: 15000 barrels

Waste disposal frequency : Weekly

Safe containment description: Drilling waste will be contained in appropriate secondary containment.

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: SEWAGE

Waste content description: Human waste

Amount of waste: 300 gallons

Waste disposal frequency : Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal facility.

Safe containmant attachment:

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

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose human waste to City of Toyah TX waste water facility.

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: A waste will be stored in appropriate and approved containment prior to disposal.

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

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

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Laguna_Deep_Anaconda_E2_Pad_Construction_Layout_Drawings_20260710143342.pdf

Laguna_Deep_Anaconda_W2_Pad_Construction_Layout_Drawings_20260819103652.pdf

Comments: The location showing access roads onto the pad and orientation of the rig with respect to the pad and other facilities are shown on Typical Rig Layout, Exhibit K for each well.

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** Laguna Deep-Anaconda

Multiple Well Pad Number: E2 Pad

Recontouring

Laguna_Deep_Anaconda_E2_Pad_Reclamation_Diagram_20260710143357.pdf

Laguna_Deep_Anaconda_W2_Pad_Reclamation_Diagram_20260819103710.pdf

Drainage/Erosion control construction: Pad construction will include drainage control by re-routing drainages around the pad and installing culverts or low water crossings where needed. Erosion control techniques will be used where needed to minimize wind and water erosion and sedimentation loading prior to vegetation establishment.

Drainage/Erosion control reclamation: Area wide drainage will be stabilized and restored so that surface runoff flows, and gradients are returned to the condition present prior to development. Drainage basins will have similar features found in nearby, properly functioning basins.

Well pad proposed disturbance (acres): 16.569	**Well pad interim reclamation (acres):** 4.436	**Well pad long term disturbance (acres):** 12.129
Road proposed disturbance (acres): 2.426	**Road interim reclamation (acres):** 0.826	**Road long term disturbance (acres):** 1.6
Powerline proposed disturbance (acres): 0	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres): 5.3	**Pipeline interim reclamation (acres):** 5.3	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 6.448	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 6.448
Total proposed disturbance: 30.743	**Total interim reclamation:** 10.562	**Total long term disturbance:** 20.177

Disturbance Comments: BLM recommended seed mix will be used for reclamation purposes.

Reconstruction method: Areas to be reclaimed will be graded to approximate original contours and to blend in with adjacent topography. Graded surfaces will be suitable for the replacement of uniform depth of topsoil, will promote cohesion between subsoil and topsoil layers, will reduce wind erosion, and will facilitate moisture capture. Specialist grading techniques may be applied if warranted and could include slope

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

rounding, star-step grading/tracing and/or contour furrowing.

Topsoil redistribution: After compaction relief (ripping/discing) all topsoil will be redistributed on the reclaimed area to a predisturbance depth. Topsoil is typically redistributed with a scarper or front-end loader which leaves friable surface to work with. Waterbars and erosion control devices will be installed on reclaimed areas, as necessary, to control topsoil erosion.

Soil treatment: As needed

Existing Vegetation at the well pad:

Existing Vegetation at the well pad

Laguna_Deep_Anaconda_E2_Pad_NRCS_Map_Units_and_Plants_20260710143502.pdf
Laguna_Deep_Anaconda_W2_Pad_NRCS_Map_Units_and_Plants_20260819103809.pdf

Existing Vegetation Community at the road:

Existing Vegetation Community at the road

Laguna_Deep_Anaconda_E2_Pad_NRCS_Map_Units_and_Plants_20260710143512.pdf
Laguna_Deep_Anaconda_W2_Pad_NRCS_Map_Units_and_Plants_20260819103818.pdf

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline

Laguna_Deep_Anaconda_E2_Pad_NRCS_Map_Units_and_Plants_20260710143524.pdf
Laguna_Deep_Anaconda_W2_Pad_NRCS_Map_Units_and_Plants_20260819103827.pdf

Existing Vegetation Community at other disturbances: Central Tank Battery

Existing Vegetation Community at other disturbances

Laguna_Deep_Anaconda_CTB_NRCS_Map_Units_and_Plants_20260710143540.pdf

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:

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: Laci **Last Name:** Luig

Phone: **Email:** laci.luig@coterra.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: Weed treatment as needed.

Weed treatment plan

Monitoring plan description: Monitoring will be done in accordance with BLM reclamation guidelines.

Monitoring plan

Success standards: Success standards will be done in accordance with BLM reclamation guidelines.

Pit closure description: n/a

Pit closure attachment:

Section 11 - Surface

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: SANTA FE

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Disturbance type: WELL PAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: SANTA FE

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Disturbance type: PIPELINE

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: SANTA FE

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Disturbance type: OTHER

Describe: CTB

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: SANTA FE

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

Disturbance type: OTHER

Describe: Flowline

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: SANTE FE

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: No onsite required. State surface, minerals.

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

BEGINNING AT THE INTERSECTION OF SMITH RANCH ROAD AND CARLSBAD HIGHWAY (LOCATED AT NAD 83 LATITUDE 32.5970° AND LONGITUDE -103.6060°) PROCEED ALONG CARLSBAD HIGHWAY IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1082' TO THE PROPOSED LOCATION.

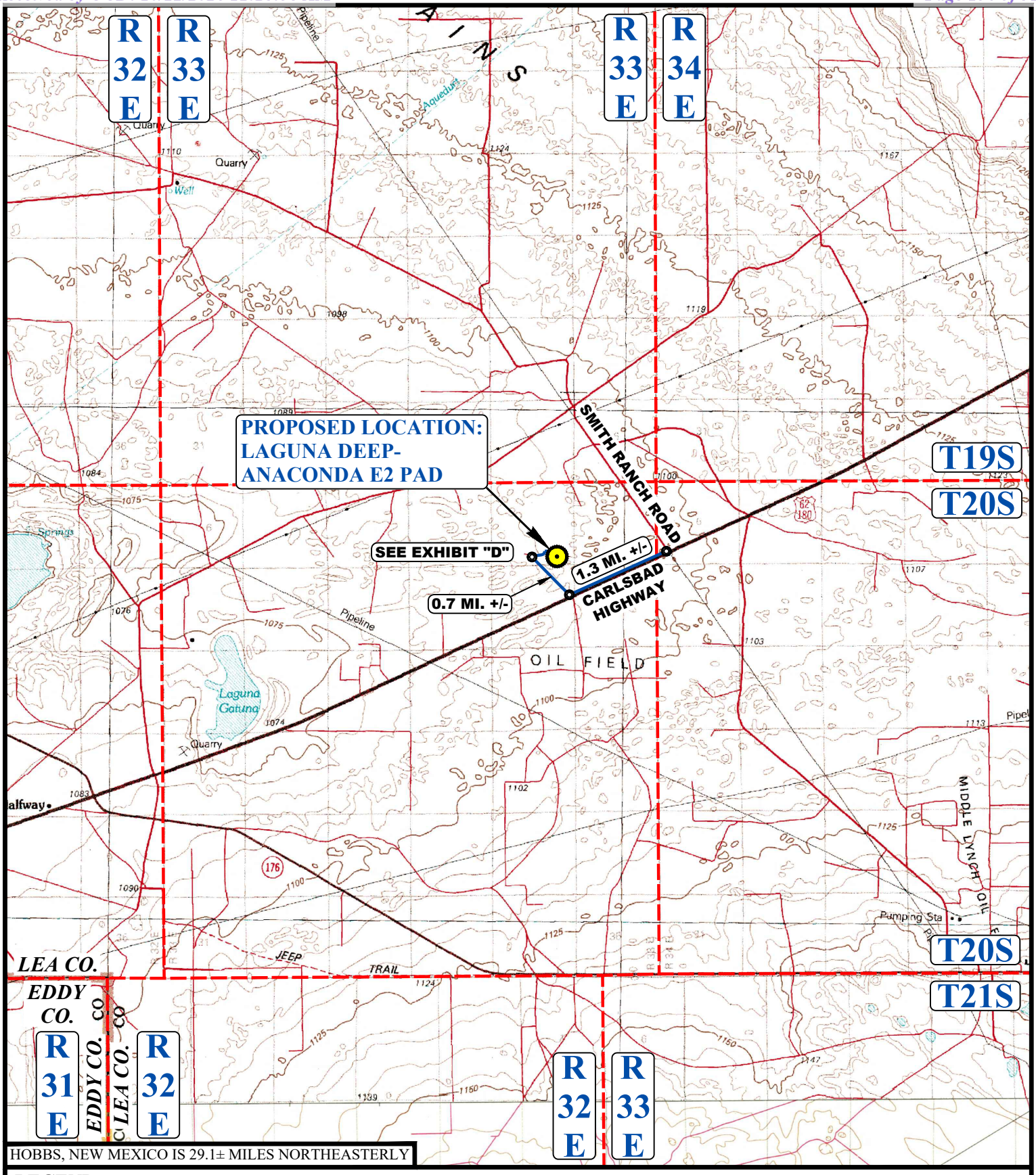
TOTAL DISTANCE FROM THE INTERSECTION OF SMITH RANCH ROAD AND CARLSBAD HIGHWAY TO THE SOUTHWEST (LOCATED AT NAD 83 LATITUDE 32.5970° AND LONGITUDE -103.6060°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 2.4 MILES.

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	
DRAWN BY	N.R.	05-22-26	
ROAD DESCRIPTION			**EXHIBIT A**

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



LEGEND:

PROPOSED LOCATION

N

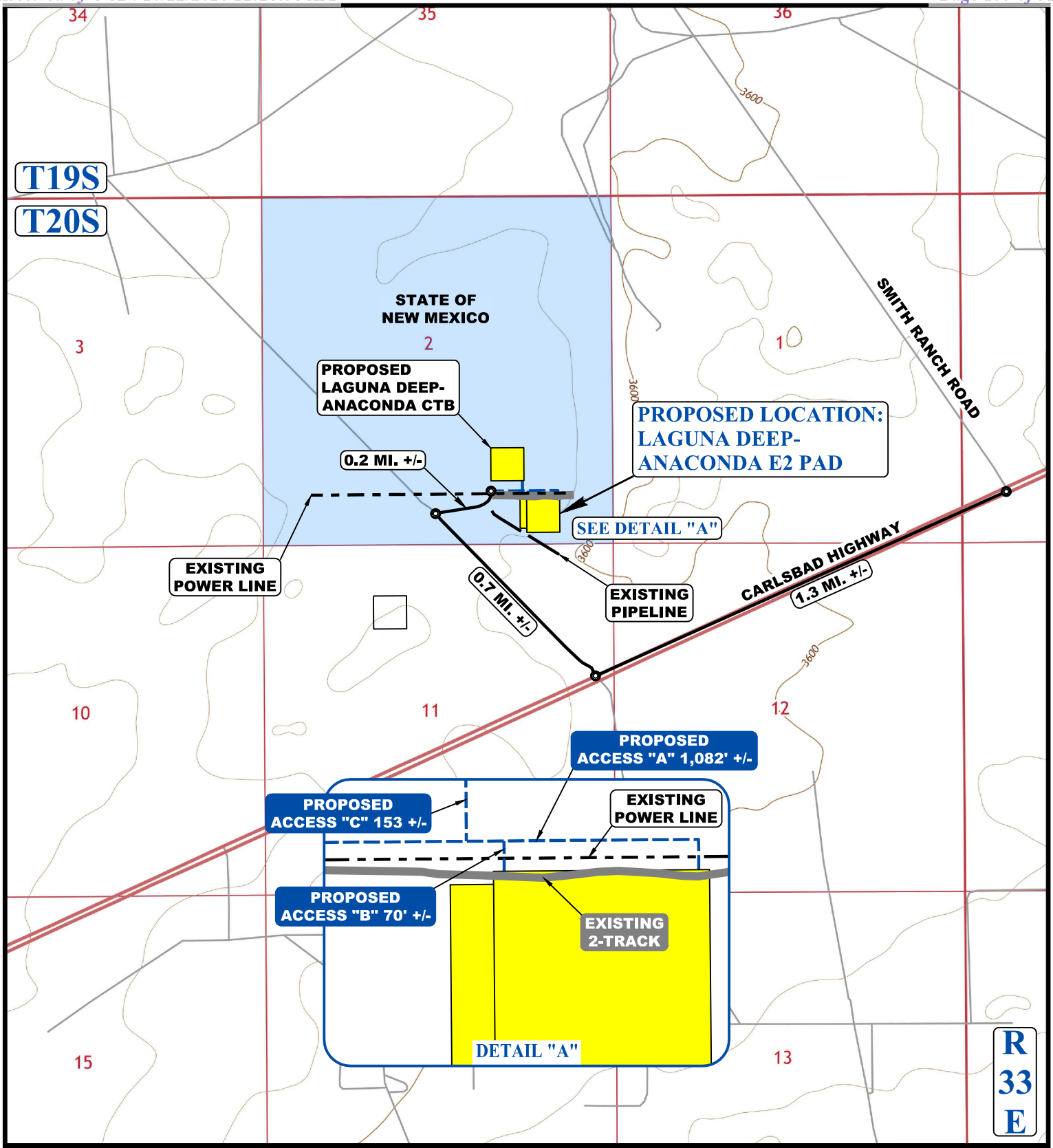
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	SCALE
DRAWN BY	N.R.	05-22-26	1 : 100,000
ACCESS ROAD MAP			EXHIBIT B

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE
- EXISTING 2-TRACK

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

N

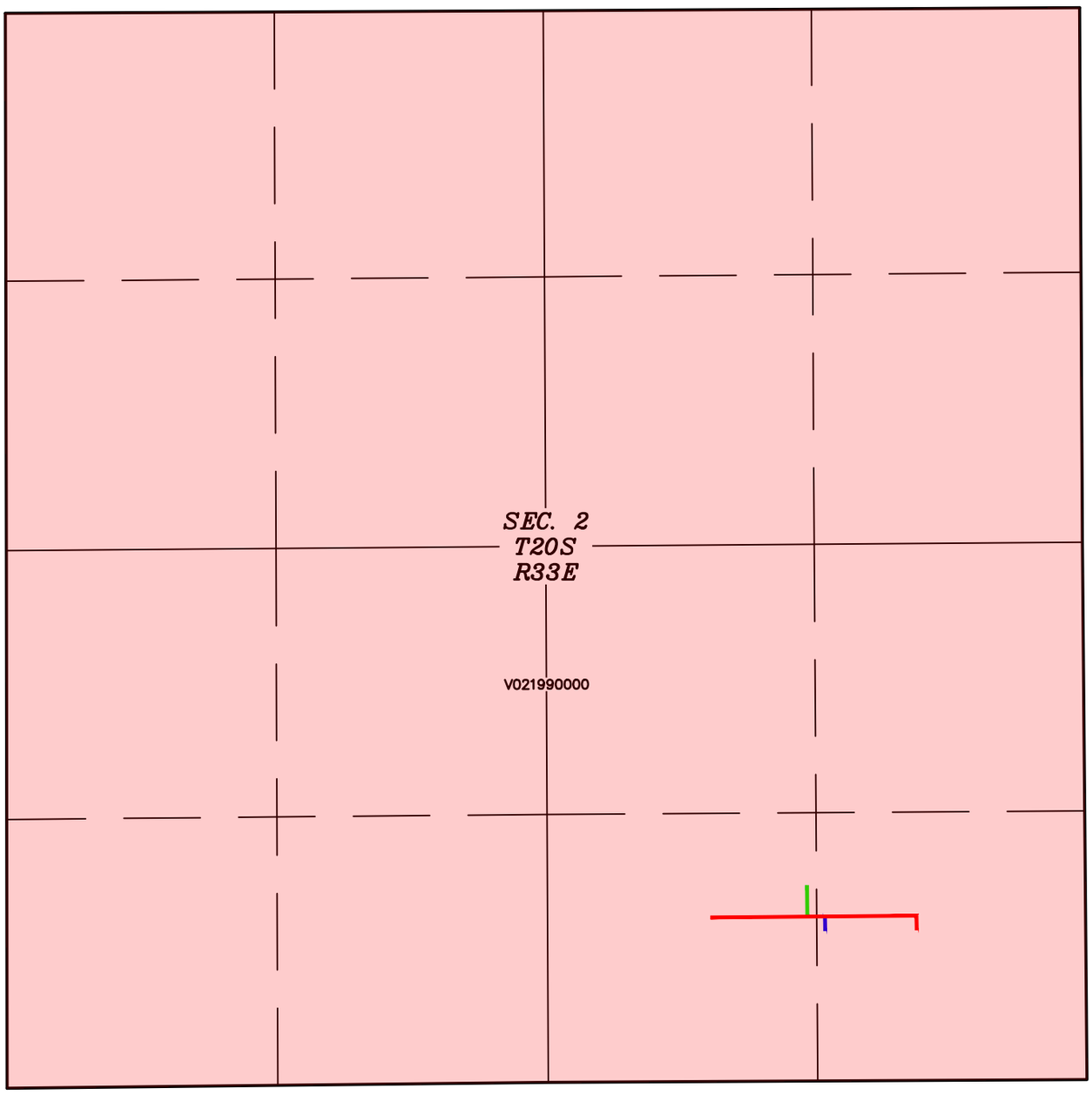
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	SCALE
DRAWN BY	N.R.	05-22-26	1 : 24,000

ACCESS ROAD MAP **EXHIBIT D**

Page 156 of 317



LEGEND:

- PROPOSED ROAD "A"
- PROPOSED ROAD "B"
- PROPOSED ROAD "C"
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

NOTES:

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

UINTAH ENGINEERING & LAND SURVEYING

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

N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

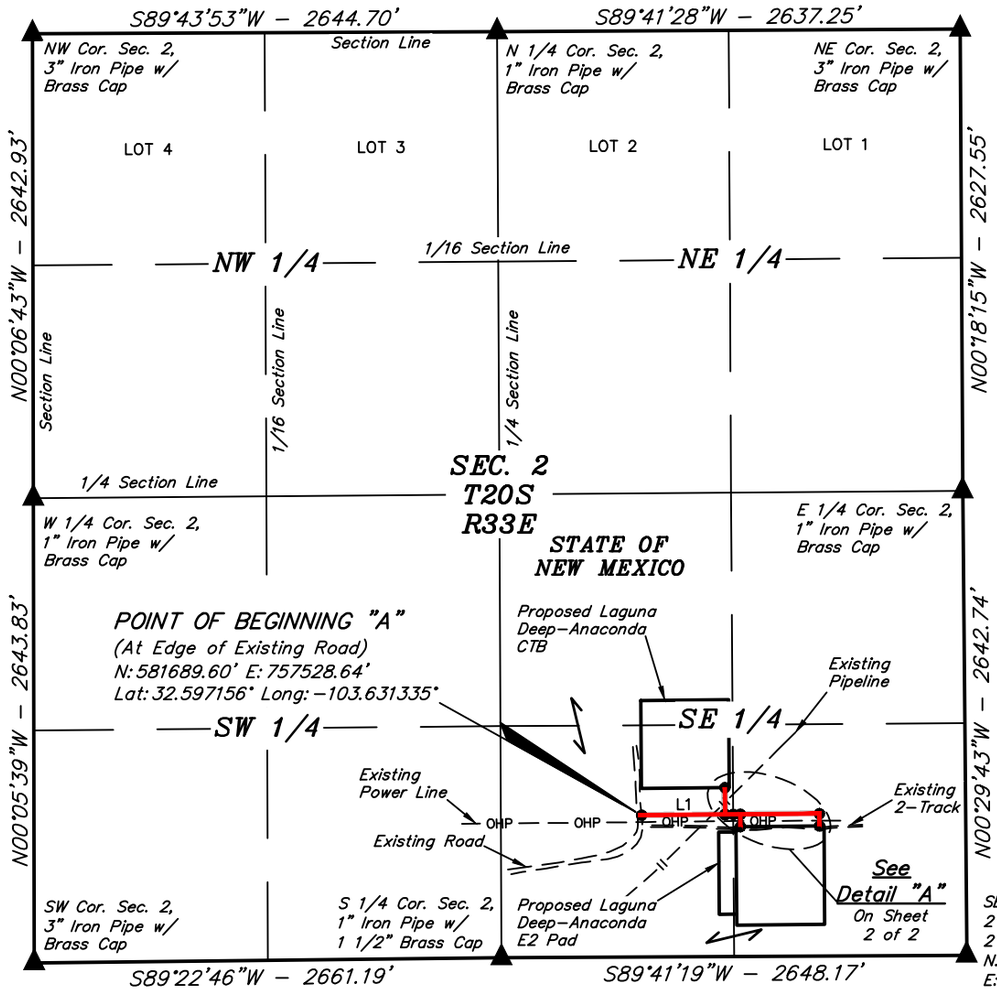
SURVEYED BY	R.C., G.M.	05-07-26	**SCALE**
DRAWN BY	L.K.	06-04-26	N/A

OVERALL ACCESS ROAD NETWORK

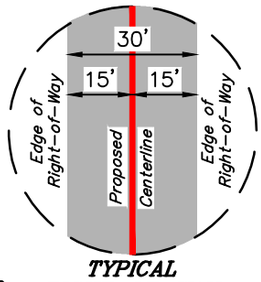
Received by OCD: 10/22/2026 11:18:58 AM

Released to Imaging: 10/29/2026 11:09:48 AM

Page 157 of 317



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°31'02"E	475.31'
L2	N89°31'02"E	46.12'
L3	N89°31'02"E	40.71'
L4	N89°31'02"E	450.00'
L5	S00°28'58"E	70.00'
L6	S00°28'58"E	70.00'
L7	N00°28'58"W	152.77'



TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

ACREAGE / LENGTH TABLE "A"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SW 1/4 SE 1/4)	521.43	31.60	0.359
SEC. 2 (SE 1/4 SE 1/4)	560.71	33.98	0.386
TOTAL	1082.14	65.58	0.745

ACREAGE / LENGTH TABLE "B"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SW 1/4 SE 1/4)	70.00	4.24	0.048

ACREAGE / LENGTH TABLE "C"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SW 1/4 SE 1/4)	152.77	9.26	0.105

1000' 500' 0' 1000'

▲ = 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
06-04-26

NOTES:
- The maximum grade of existing ground for the proposed access road "A" is ±1.99%.
- The maximum grade of existing ground for the proposed access road "B" is ±0.21%.
- The maximum grade of existing ground for the proposed access road "C" is ±0.42%.
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

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

N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD ON STATE OF NEW MEXICO LANDS IN SECTION 2, T20S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-04-26	1" = 1000'
FILE	COT01-26-0064-A1		

ACCESS ROAD R-O-W **EXHIBIT D**

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 158 of 317

ACCESS ROAD "A" RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT ON IN THE SW 1/4 SE 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581689.60' AND THE EASTING: 757528.64'; THENCE N89°31'02"E 475.31'; THENCE CONTINUING N89°31'02"E 46.12' TO A POINT ON THE EAST LINE OF THE SW 1/4 SE 1/4 OF SAID SECTION 2; THENCE CONTINUING N89°31'02"E 40.71'; THENCE CONTINUING N89°31'02"E 450.00'; THENCE S00°28'58"E 70.00' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581628.13' AND THE EASTING: 758541.32'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.745 ACRES MORE OR LESS. ALL BEARINGS, DISTANCES, COORDINATES, AND AREAS LISTED ARE GRID AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83, (U.S. SURVEY FOOT).

ACCESS ROAD "B" RIGHT-OF-WAY DESCRIPTION

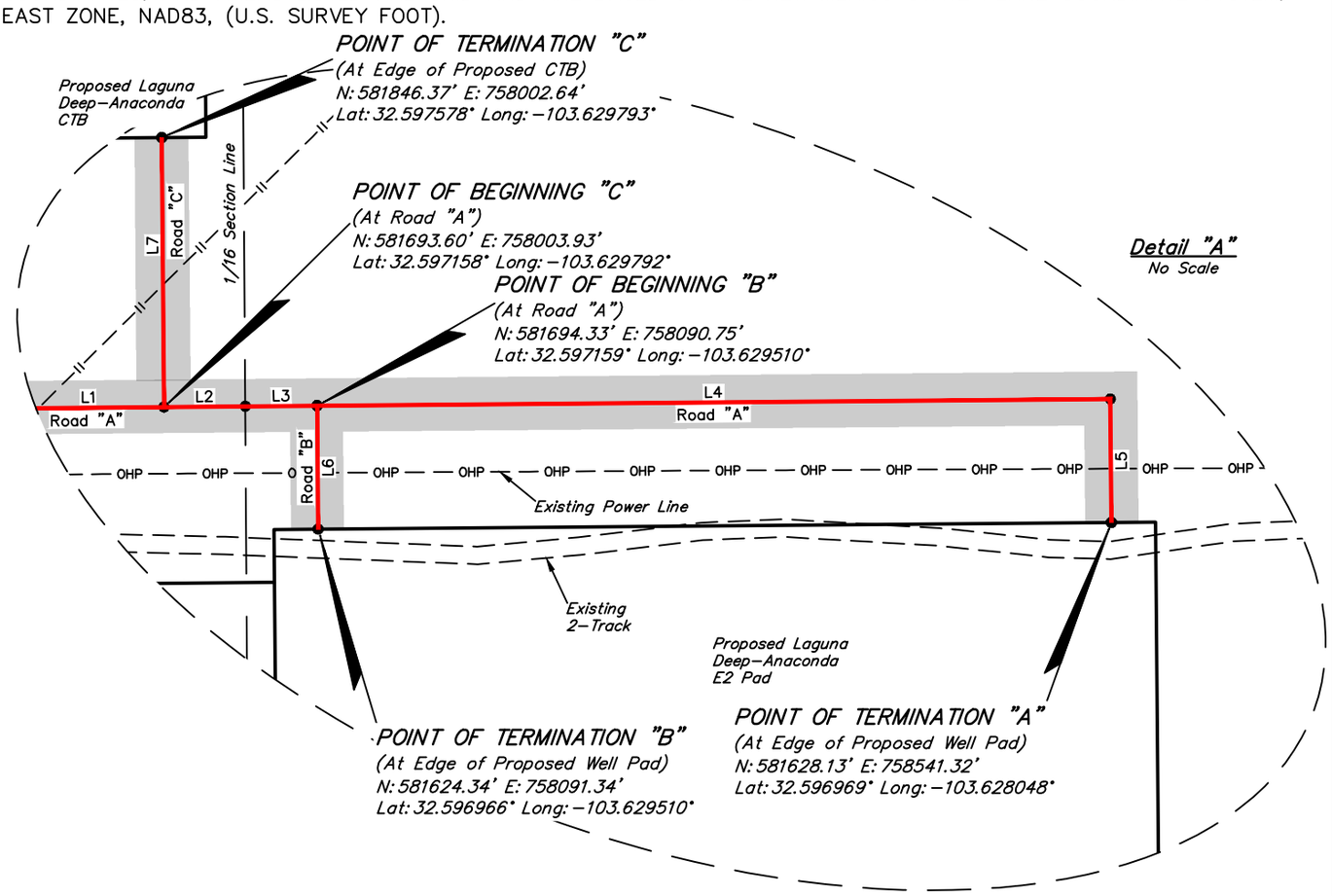
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON IN THE SE 1/4 SE 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581694.33' AND THE EASTING: 758090.75'; THENCE S00°28'58"E 70.00' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581624.34' AND THE EASTING: 758091.34'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.048 ALL BEARINGS, DISTANCES, COORDINATES, AND AREAS LISTED ARE GRID AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83, (U.S. SURVEY FOOT).

ACCESS ROAD "C" RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT ON IN THE SW 1/4 SE 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581693.60' AND THE EASTING: 758003.93'; THENCE N00°28'58"W 152.77' TO A POINT IN THE SW 1/4 SE 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581846.37' AND THE EASTING: 758002.64'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.105 ACRES MORE OR LESS. ALL BEARINGS, DISTANCES, COORDINATES, AND AREAS LISTED ARE GRID AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83, (U.S. SURVEY FOOT).



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
Carl Buchali
06-04-26

Sheet 2 of 2

NOTES:

- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-04-26	N/A
FILE	COT01-26-0064-A2		
ACCESS ROAD R-O-W			EXHIBIT D

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

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

BEGINNING AT THE INTERSECTION OF SMITH RANCH ROAD AND CARLSBAD HIGHWAY (LOCATED AT NAD 83 LATITUDE 32.5970° AND LONGITUDE -103.6060°) PROCEED IN A SOUTHWESTERLY DIRECTION ALONG CARLSBAD HIGHWAY APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED LOCATION.

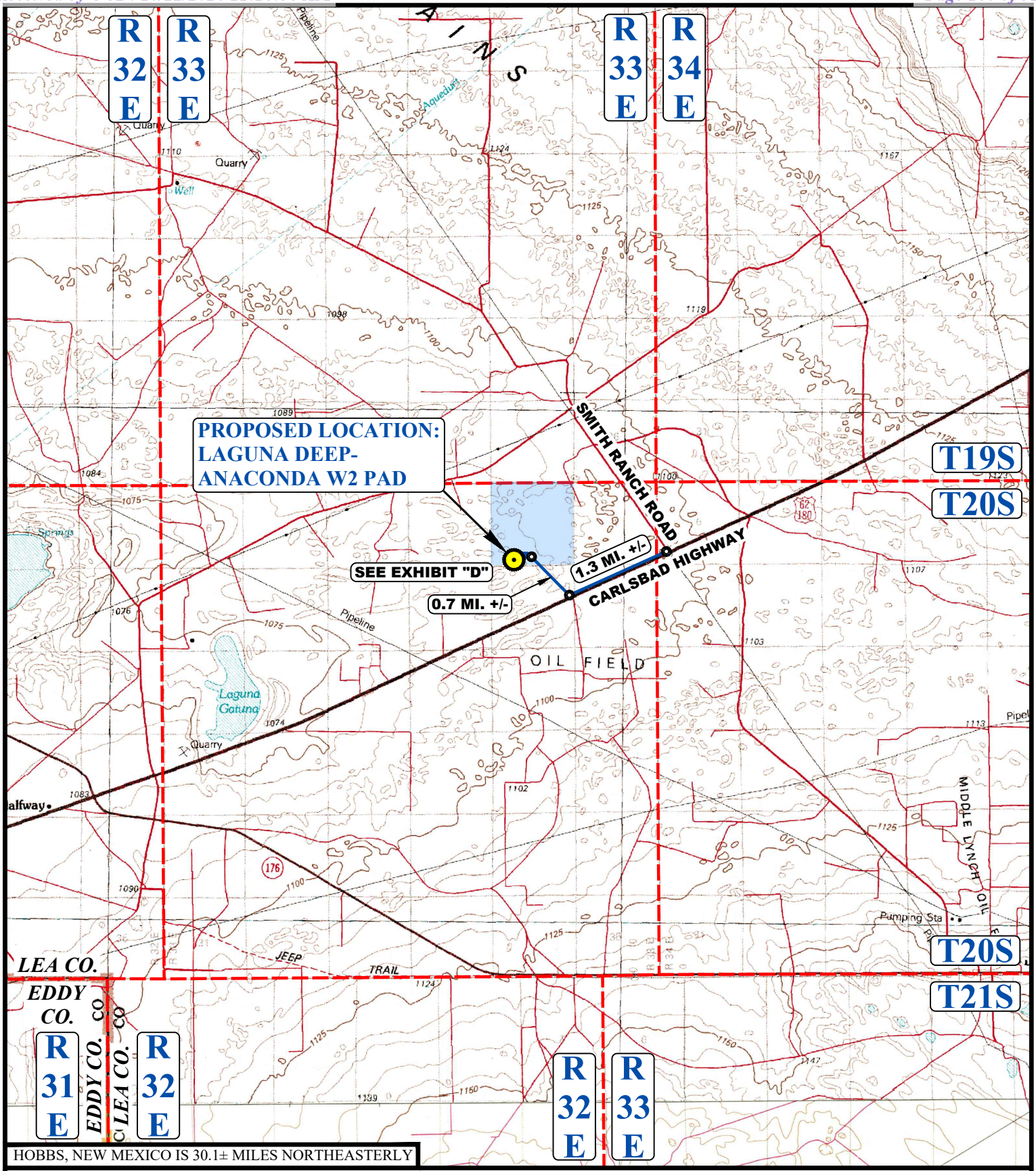
TOTAL DISTANCE FROM THE INTERSECTION OF SMITH RANCH ROAD AND CARLSBAD HIGHWAY TO THE SOUTHWEST (LOCATED AT NAD 83 LATITUDE 32.5970° AND LONGITUDE -103.6060°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 2.2 MILES.

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	
DRAWN BY	N.R.	05-20-26	
ROAD DESCRIPTION			**EXHIBIT A**

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



LEGEND:

⊙ **PROPOSED LOCATION**

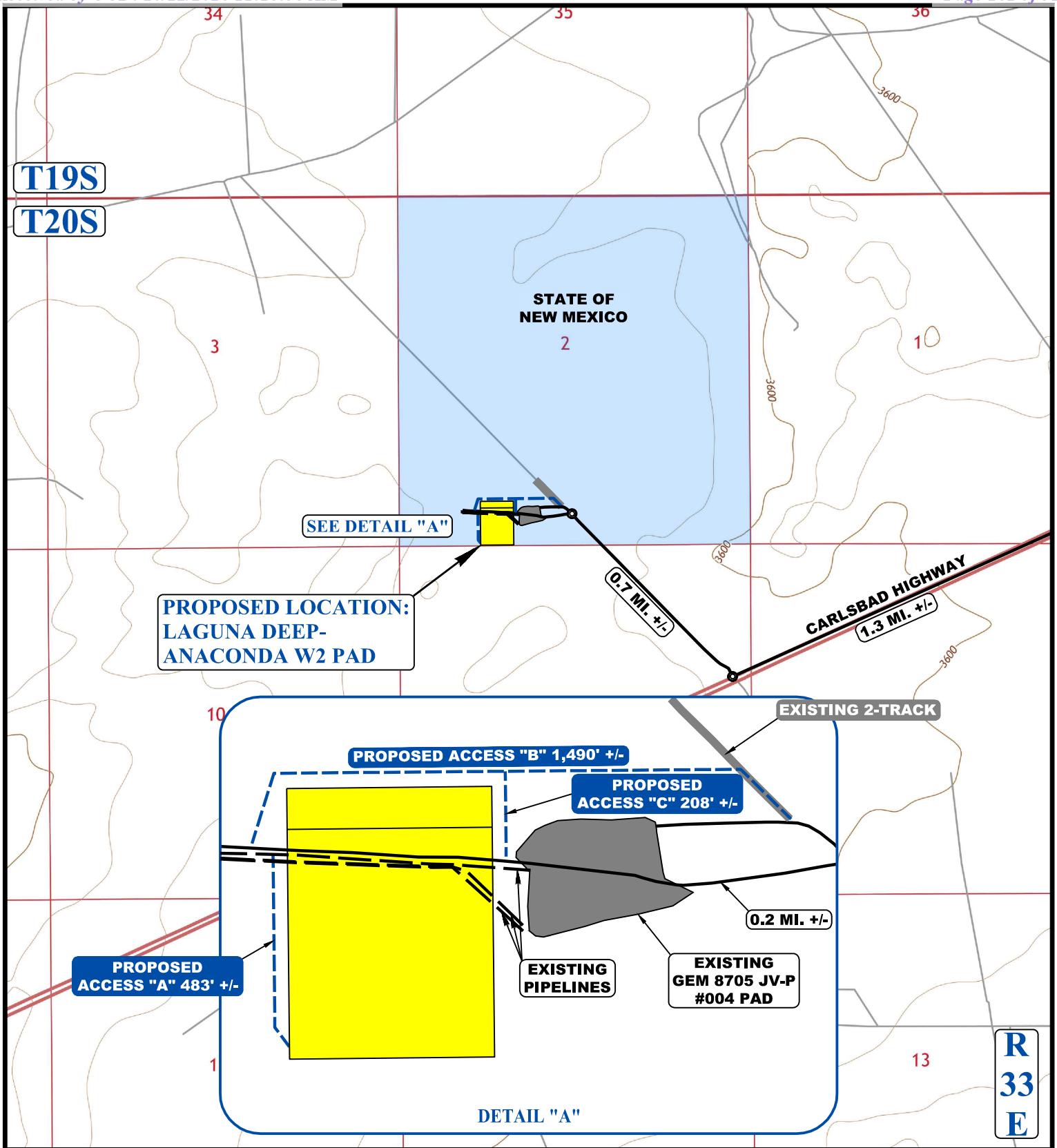
N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	SCALE
DRAWN BY	N.R.	05-20-26	1 : 100,000
ACCESS ROAD MAP			EXHIBIT B

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



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

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING 2-TRACK
- EXISTING PIPELINE

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

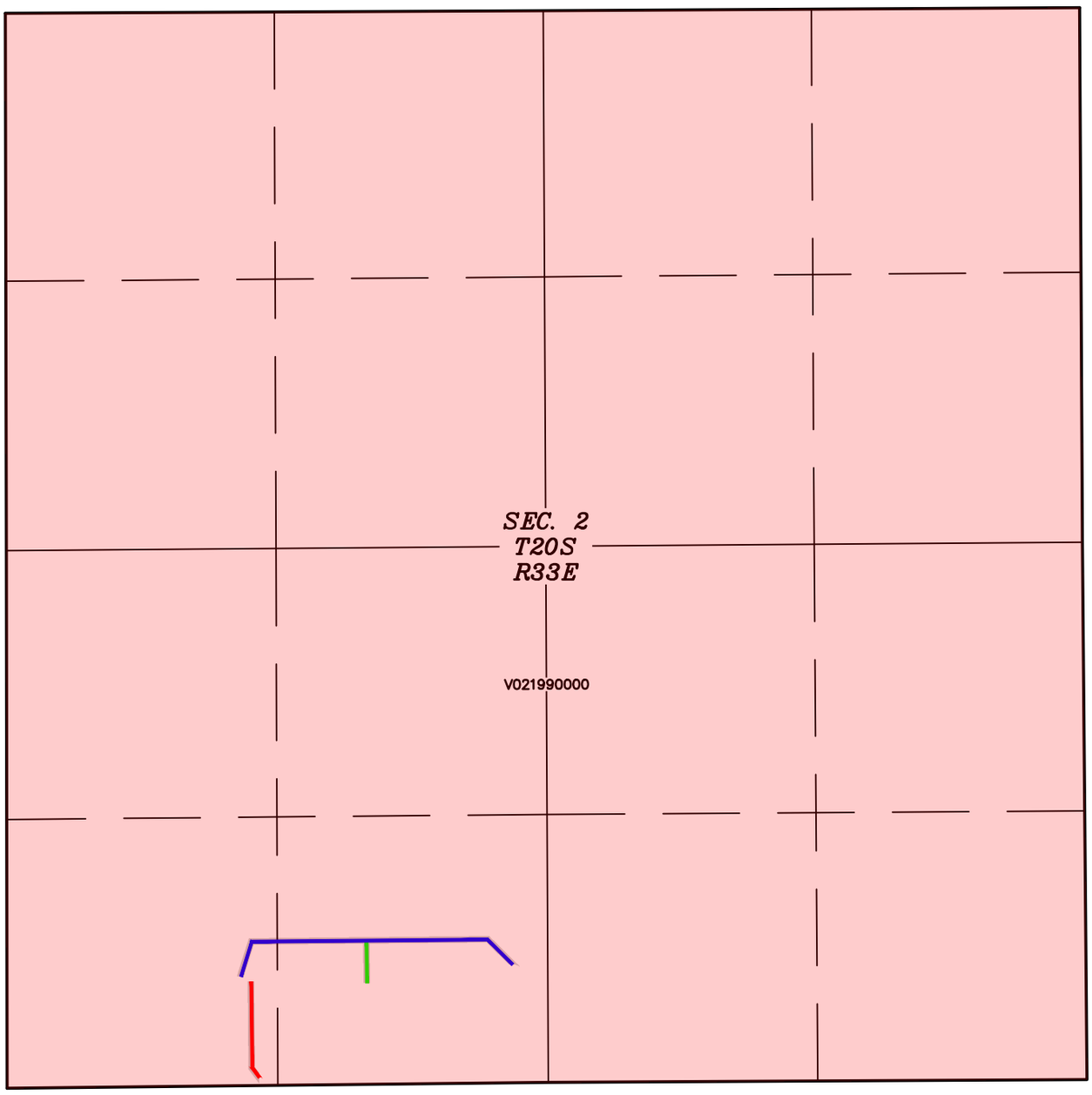
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	SCALE
DRAWN BY	N.R.	05-20-26	1 : 24,000

ACCESS ROAD MAP **EXHIBIT D**

Page 162 of 317



LEGEND:

- PROPOSED ROAD "A"
- PROPOSED ROAD "B"
- PROPOSED ROAD "C"
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

NOTES:

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

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

N

REV: 01 06-16-26 H.S.S. (ROAD CHANGES)

COTERRA ENERGY OPERATING CO.

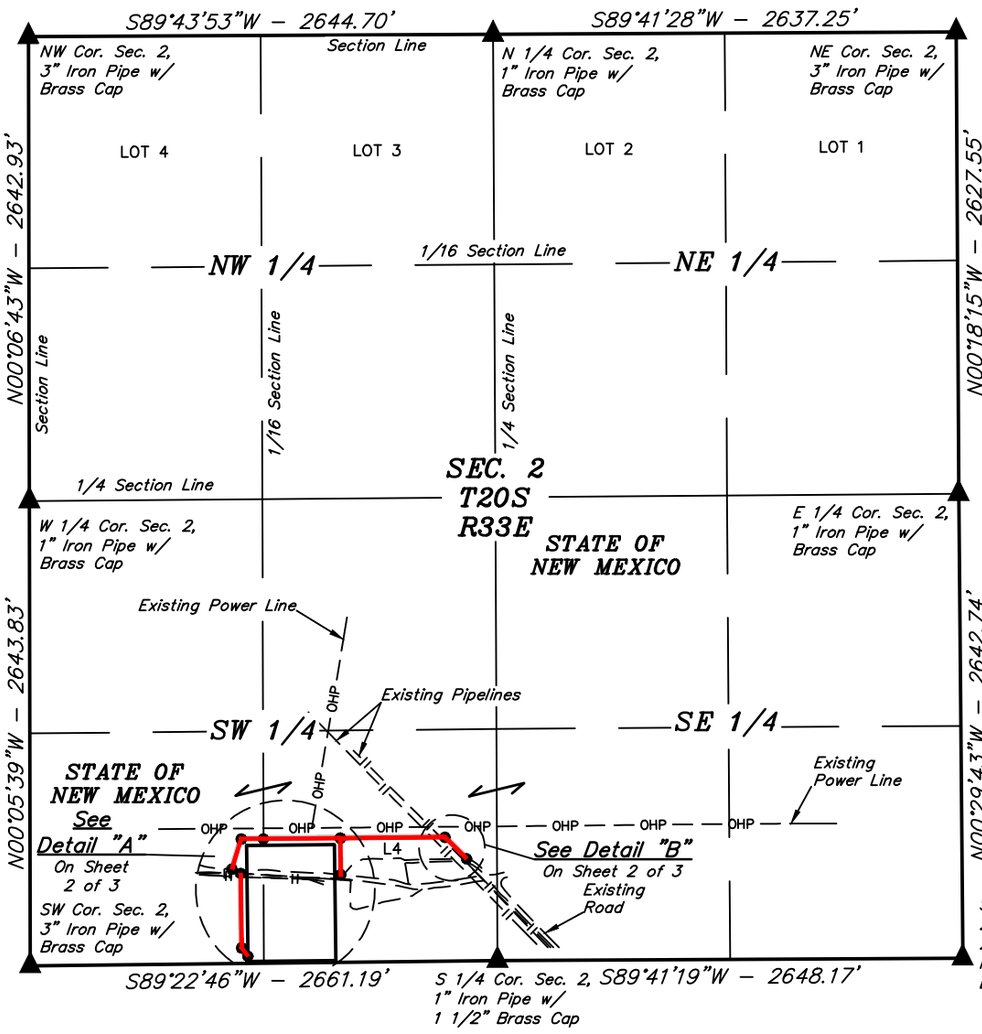
LAGUNA DEEP-ANACONDA W2 PAD
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	**SCALE**
DRAWN BY	L.K.	06-03-26	N/A

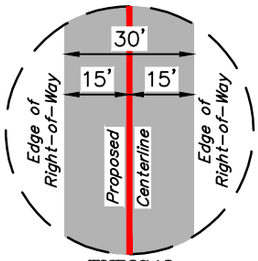
OVERALL ACCESS ROAD NETWORK

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 163 of 317



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°37'14"E	423.44'
L2	S36°39'57"E	59.48'
L3	N45°15'42"W	173.46'
L4	S89°30'42"W	595.55'
L5	S89°30'22"W	437.77'
L6	S89°30'22"W	126.21'
L7	S17°20'41"W	179.34'
L8	N00°37'14"W	207.95'



TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

ACREAGE / LENGTH TABLE "A"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SW 1/4 SW 1/4)	482.92	29.27	0.333

ACREAGE / LENGTH TABLE "B"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SE 1/4 SW 1/4)	1206.78	73.14	0.831
SEC. 2 (SW 1/4 SW 1/4)	305.55	18.52	0.210
TOTAL	1512.33	91.66	1.041

ACREAGE / LENGTH TABLE "C"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SE 1/4 SW 1/4)	207.95	12.60	0.143

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
23782
06-16-26

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

Sheet 1 of 3

REV: 01	06-16-26	H.S.S.	(ROAD CHANGES)

NOTES:
- The maximum grade of existing ground for the proposed access road "A" is ±6.42%.
- The maximum grade of existing ground for the proposed access road "B" is ±10.22%.
- The maximum grade of existing ground for the proposed access road "A" is ±0.97%.
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

UINTAH ENGINEERING & LAND SURVEYING

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

N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	1" = 1000'
FILE	COT01-26-0062-A1		

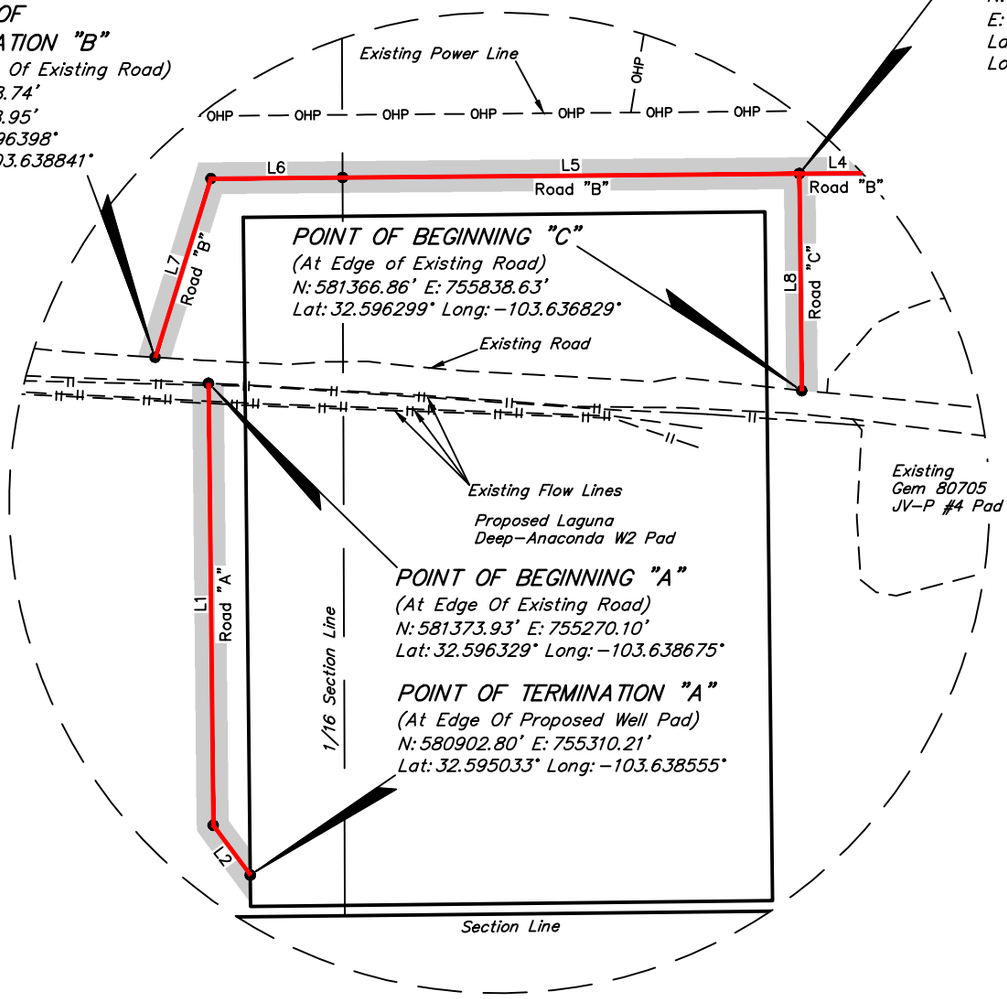
ACCESS ROAD R-O-W **EXHIBIT D**

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

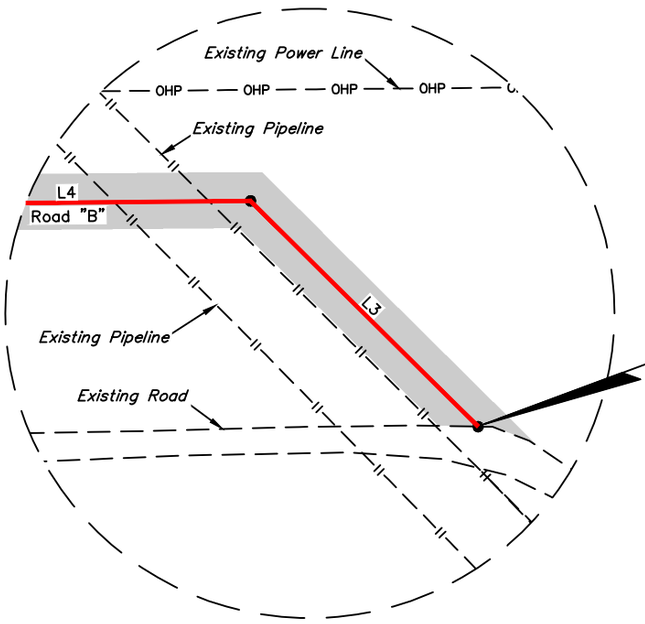
Page 164 of 317

POINT OF TERMINATION "C"
(At Road "B")
N: 581574.79'
E: 755836.38'
Lat: 32.596871°
Long: −103.636832°

POINT OF TERMINATION "B"
(At Edge Of Existing Road)
N: 581398.74'
E: 755218.95'
Lat: 32.596398°
Long: −103.638841°



Detail "A"
No Scale



POINT OF BEGINNING "B"
(At Edge of Existing Road)
N: 581457.77' E: 756555.12'
Lat: 32.596536° Long: −103.634501°

Detail "B"
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.

STATE OF NEW MEXICO
23782
PROFESSIONAL SURVEYOR
06−16−26

Sheet 2 of 3

REV: 01	06-16-26	H.S.S.	(ROAD CHANGES)

NOTES:
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	N/A
FILE	COT01-26-0062-A2		
ACCESS ROAD R-O-W			EXHIBIT D

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

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 165 of 317

ACCESS ROAD "A" RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE SW 1/4 SW 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581373.93' AND THE EASTING: 755270.10'; THENCE S00°37'14"E 423.44'; THENCE S36°39'57"E 59.48' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 580902.80' AND THE EASTING: 755310.21'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.333 ACRES MORE OR LESS. BEARINGS, DISTANCES, COORDINATES AND AREAS ARE BASED ON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, IN U.S. FEET.

ACCESS ROAD "B" RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE SE 1/4 SW 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581457.77' AND THE EASTING: 756555.12'; THENCE N45°15'42"W 173.46'; THENCE S89°30'42"W 595.55'; THENCE CONTINUING S89°30'22"W 437.77' TO A POINT ON THE WEST LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 2; THENCE CONTINUING S89°30'22"W 126.21'; THENCE S17°20'41"W 179.34' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581398.74' AND THE EASTING: 755218.95'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 1.041 ACRES MORE OR LESS. BEARINGS, DISTANCES, COORDINATES AND AREAS ARE BASED ON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, IN U.S. FEET.

ACCESS ROAD "C" RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE SE 1/4 SW 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581366.86' AND THE EASTING: 755838.63'; THENCE N00°37'14"W 207.95' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581574.79' AND THE EASTING: 755836.38'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.143 ACRES MORE OR LESS. BEARINGS, DISTANCES, COORDINATES AND AREAS ARE BASED ON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, IN U.S. FEET.

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

06-16-26

REV: 01	06-16-26	H.S.S.	(ROAD CHANGES)

NOTES:

- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	N/A
FILE	COT01-26-0062-A3		
ACCESS ROAD R-O-W			EXHIBIT D

UINTAH ENGINEERING & LAND SURVEYING

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

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

BEGINNING AT THE INTERSECTION OF SMITH RANCH ROAD AND CARLSBAD HIGHWAY (LOCATED AT NAD 83 LATITUDE 32.5970° AND LONGITUDE -103.6060°) PROCEED ALONG CARLSBAD HIGHWAY IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1082' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF SMITH RANCH ROAD AND CARLSBAD HIGHWAY TO THE SOUTHWEST (LOCATED AT NAD 83 LATITUDE 32.5970° AND LONGITUDE -103.6060°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 2.4 MILES.

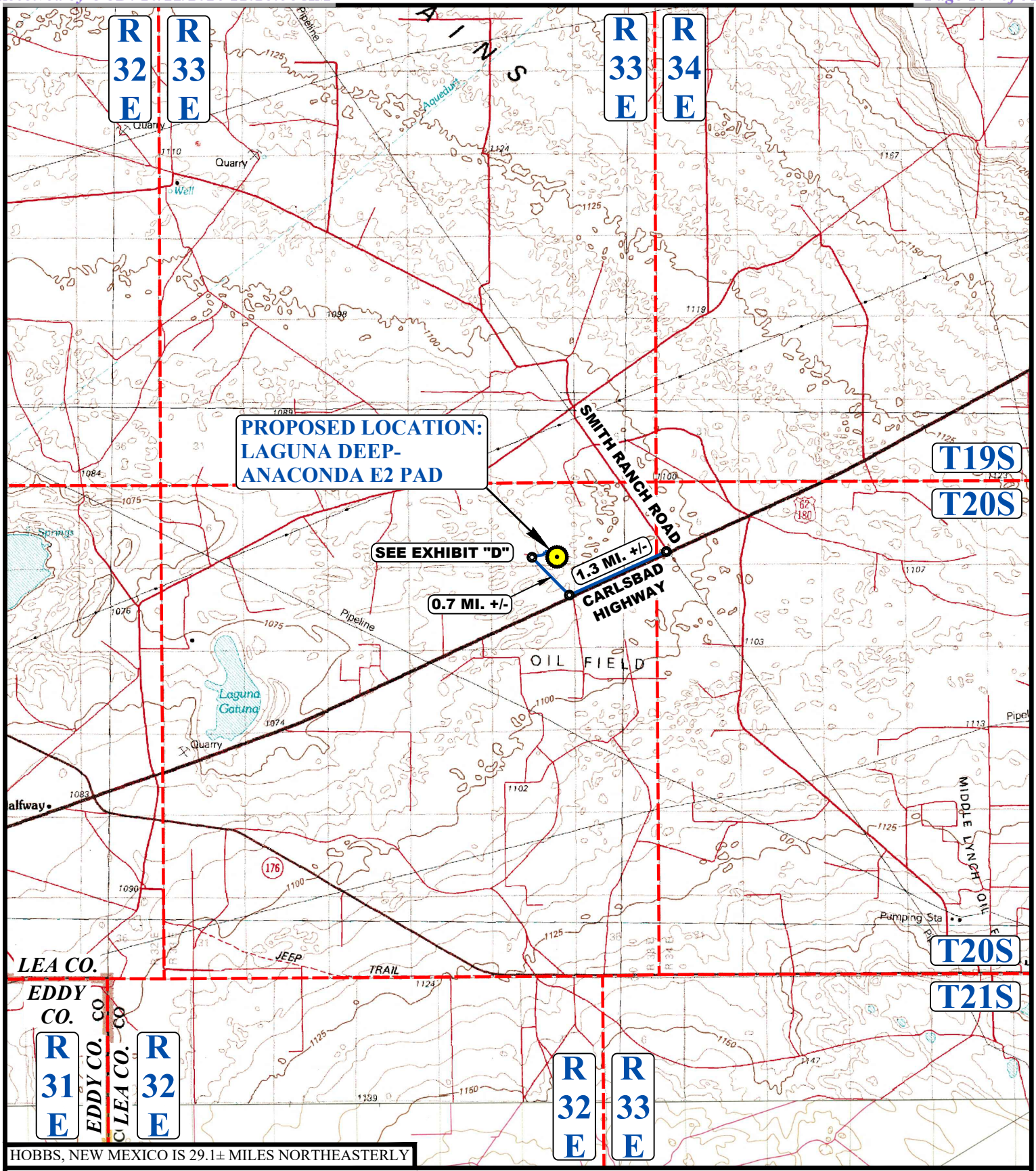
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	
DRAWN BY	N.R.	05-22-26	

ROAD DESCRIPTION **EXHIBIT A**

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



LEGEND:

PROPOSED LOCATION

N

COTERRA ENERGY OPERATING CO.

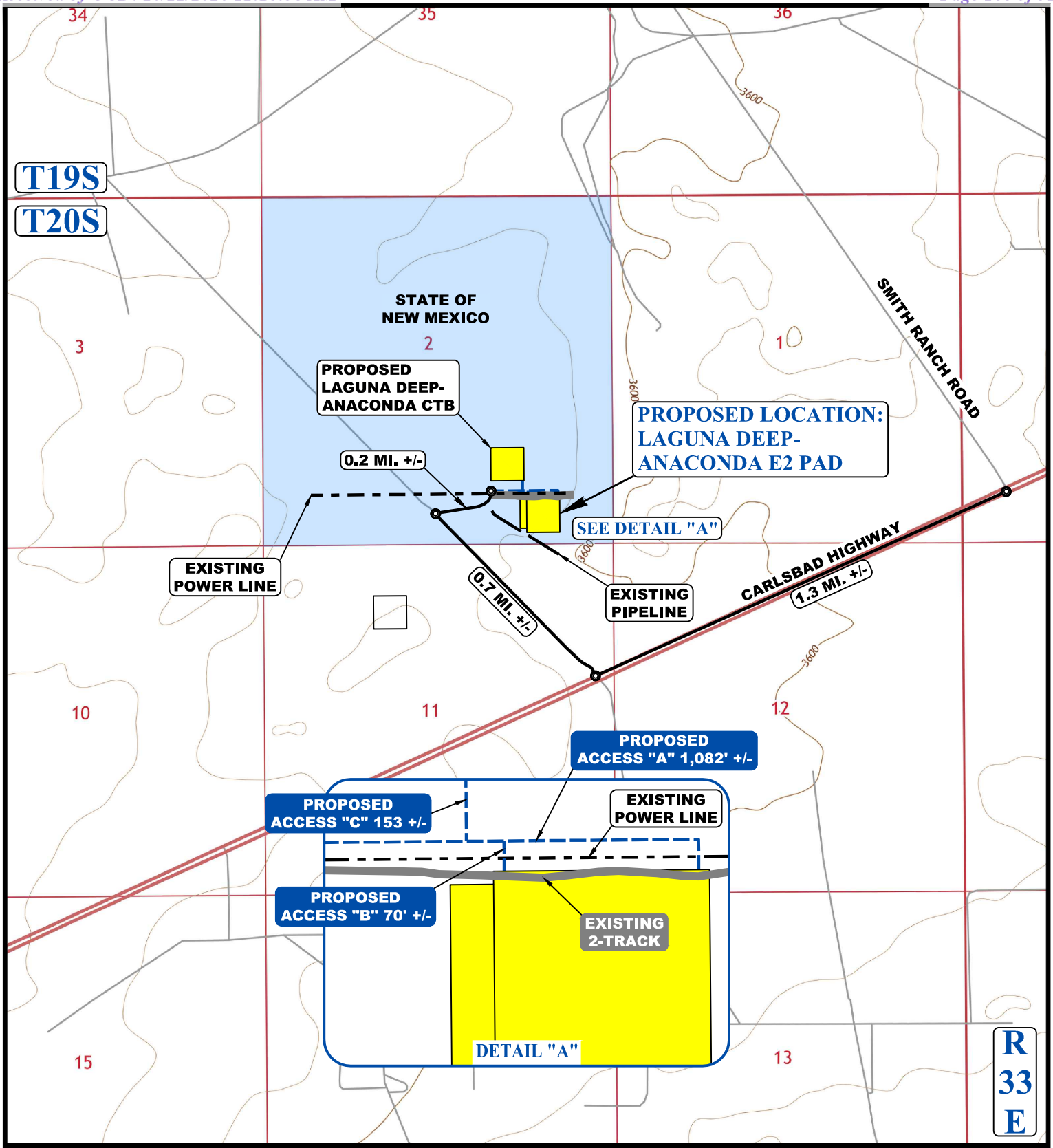
LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	SCALE
DRAWN BY	N.R.	05-22-26	1 : 100,000

ACCESS ROAD MAP **EXHIBIT B**

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING POWER LINE
- EXISTING PIPELINE
- EXISTING 2-TRACK

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

N

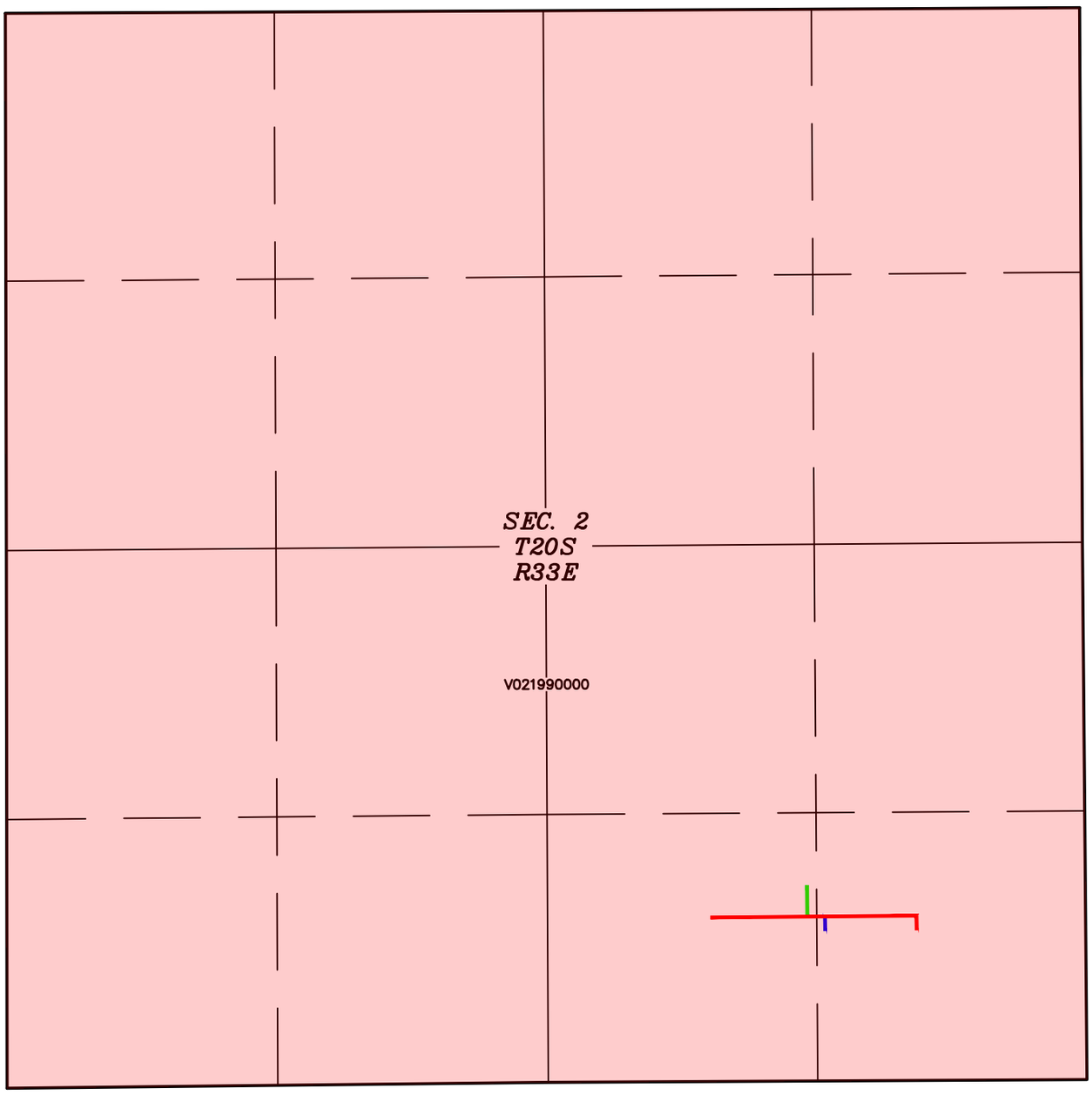
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	SCALE
DRAWN BY	N.R.	05-22-26	1 : 24,000

ACCESS ROAD MAP **EXHIBIT D**

Page 169 of 317



LEGEND:

- PROPOSED ROAD "A"
- PROPOSED ROAD "B"
- PROPOSED ROAD "C"
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

NOTES:

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

UINTAH ENGINEERING & LAND SURVEYING

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

N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

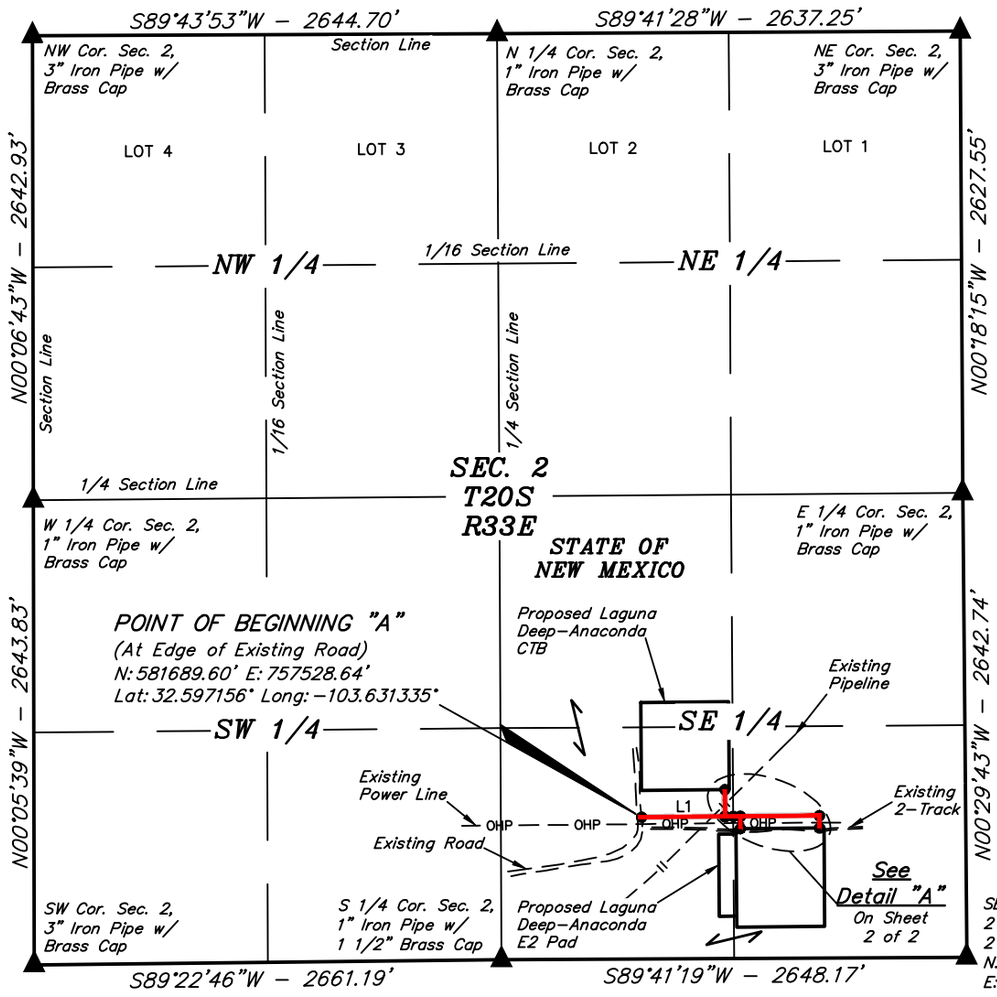
SURVEYED BY	R.C., G.M.	05-07-26	**SCALE**
DRAWN BY	L.K.	06-04-26	N/A

OVERALL ACCESS ROAD NETWORK

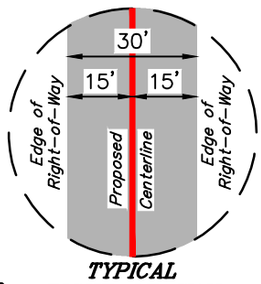
Received by OCD: 10/22/2026 11:18:58 AM

Released to Imaging: 10/29/2026 11:09:48 AM

Page 170 of 317



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°31'02"E	475.31'
L2	N89°31'02"E	46.12'
L3	N89°31'02"E	40.71'
L4	N89°31'02"E	450.00'
L5	S00°28'58"E	70.00'
L6	S00°28'58"E	70.00'
L7	N00°28'58"W	152.77'



TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

ACREAGE / LENGTH TABLE "A"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SW 1/4 SE 1/4)	521.43	31.60	0.359
SEC. 2 (SE 1/4 SE 1/4)	560.71	33.98	0.386
TOTAL	1082.14	65.58	0.745

ACREAGE / LENGTH TABLE "B"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SW 1/4 SE 1/4)	70.00	4.24	0.048

ACREAGE / LENGTH TABLE "C"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SW 1/4 SE 1/4)	152.77	9.26	0.105

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
Frank Buchelo
06-04-26
PROFESSIONAL SURVEYOR

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

Sheet 1 of 2

NOTES:
- The maximum grade of existing ground for the proposed access road "A" is ±1.99%.
- The maximum grade of existing ground for the proposed access road "B" is ±0.21%.
- The maximum grade of existing ground for the proposed access road "C" is ±0.42%.
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

UINTAH ENGINEERING & LAND SURVEYING

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

N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD ON STATE OF NEW MEXICO LANDS IN SECTION 2, T20S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-04-26	1" = 1000'
FILE	COT01-26-0064-A1		

ACCESS ROAD R-O-W **EXHIBIT D**

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 171 of 317

ACCESS ROAD "A" RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT ON IN THE SW 1/4 SE 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581689.60' AND THE EASTING: 757528.64'; THENCE N89°31'02"E 475.31'; THENCE CONTINUING N89°31'02"E 46.12' TO A POINT ON THE EAST LINE OF THE SW 1/4 SE 1/4 OF SAID SECTION 2; THENCE CONTINUING N89°31'02"E 40.71'; THENCE CONTINUING N89°31'02"E 450.00'; THENCE S00°28'58"E 70.00' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581628.13' AND THE EASTING: 758541.32'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.745 ACRES MORE OR LESS. ALL BEARINGS, DISTANCES, COORDINATES, AND AREAS LISTED ARE GRID AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83, (U.S. SURVEY FOOT).

ACCESS ROAD "B" RIGHT-OF-WAY DESCRIPTION

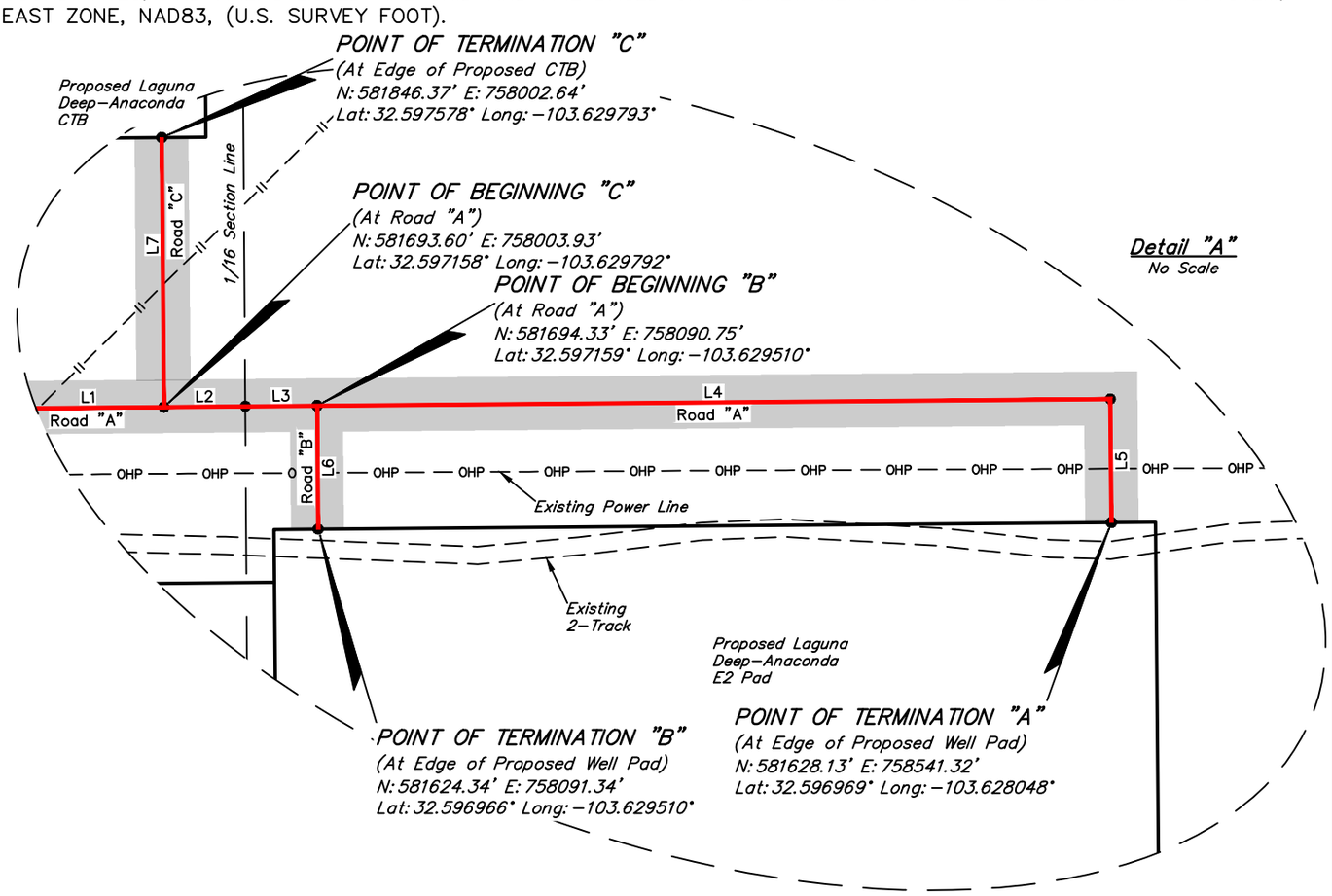
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON IN THE SE 1/4 SE 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581694.33' AND THE EASTING: 758090.75'; THENCE S00°28'58"E 70.00' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581624.34' AND THE EASTING: 758091.34'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.048 ALL BEARINGS, DISTANCES, COORDINATES, AND AREAS LISTED ARE GRID AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83, (U.S. SURVEY FOOT).

ACCESS ROAD "C" RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT ON IN THE SW 1/4 SE 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581693.60' AND THE EASTING: 758003.93'; THENCE N00°28'58"W 152.77' TO A POINT IN THE SW 1/4 SE 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581846.37' AND THE EASTING: 758002.64'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.105 ACRES MORE OR LESS. ALL BEARINGS, DISTANCES, COORDINATES, AND AREAS LISTED ARE GRID AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83, (U.S. SURVEY FOOT).



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
Carl Buchali
06-04-26

Sheet 2 of 2

NOTES:

- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-04-26	N/A
FILE	COT01-26-0064-A2		
ACCESS ROAD R-O-W			EXHIBIT D

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

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

BEGINNING AT THE INTERSECTION OF SMITH RANCH ROAD AND CARLSBAD HIGHWAY (LOCATED AT NAD 83 LATITUDE 32.5970° AND LONGITUDE -103.6060°) PROCEED IN A SOUTHWESTERLY DIRECTION ALONG CARLSBAD HIGHWAY APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED LOCATION.

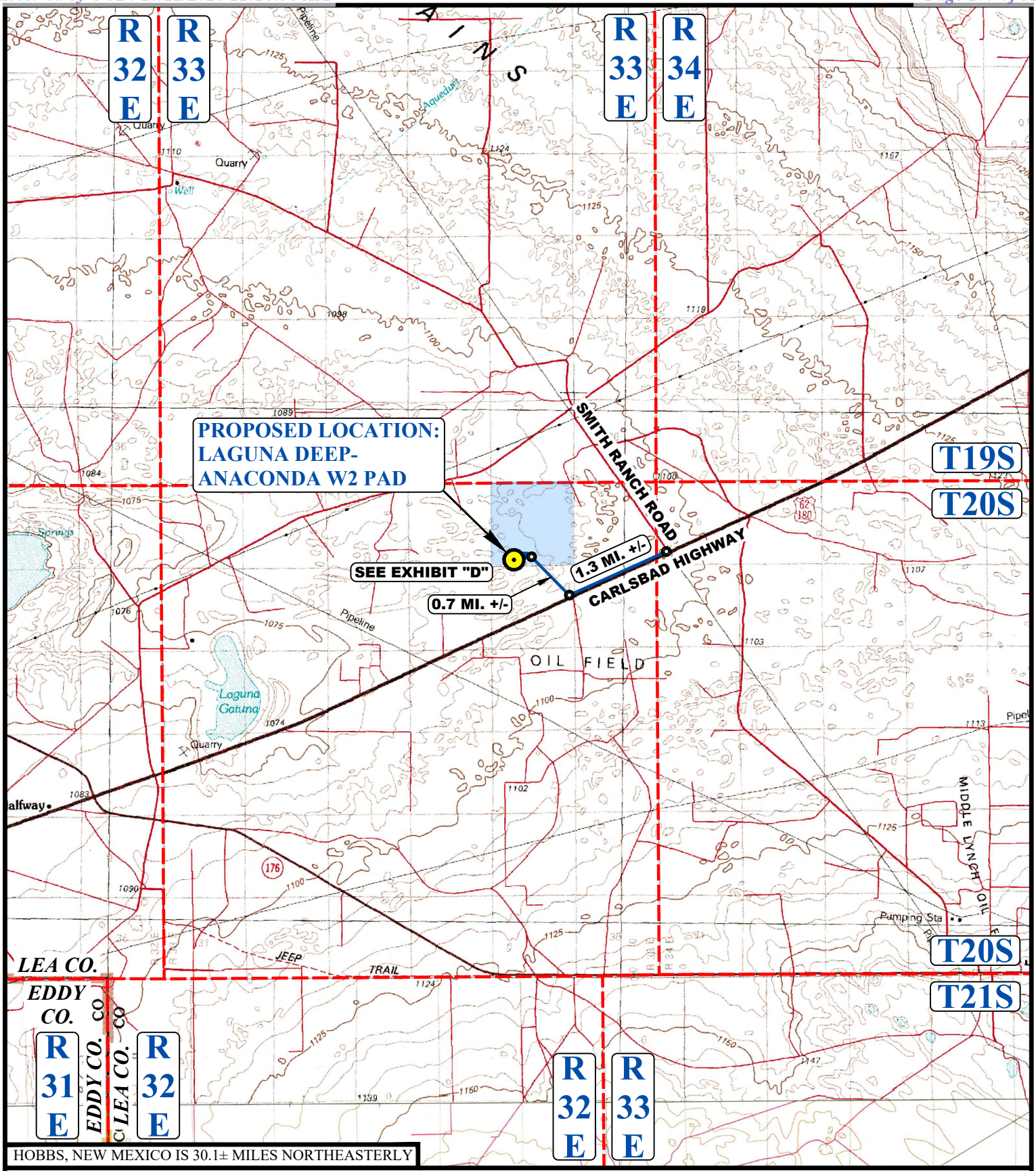
TOTAL DISTANCE FROM THE INTERSECTION OF SMITH RANCH ROAD AND CARLSBAD HIGHWAY TO THE SOUTHWEST (LOCATED AT NAD 83 LATITUDE 32.5970° AND LONGITUDE -103.6060°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 2.2 MILES.

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	
DRAWN BY	N.R.	05-20-26	
ROAD DESCRIPTION			**EXHIBIT A**

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



LEGEND:

PROPOSED LOCATION

N

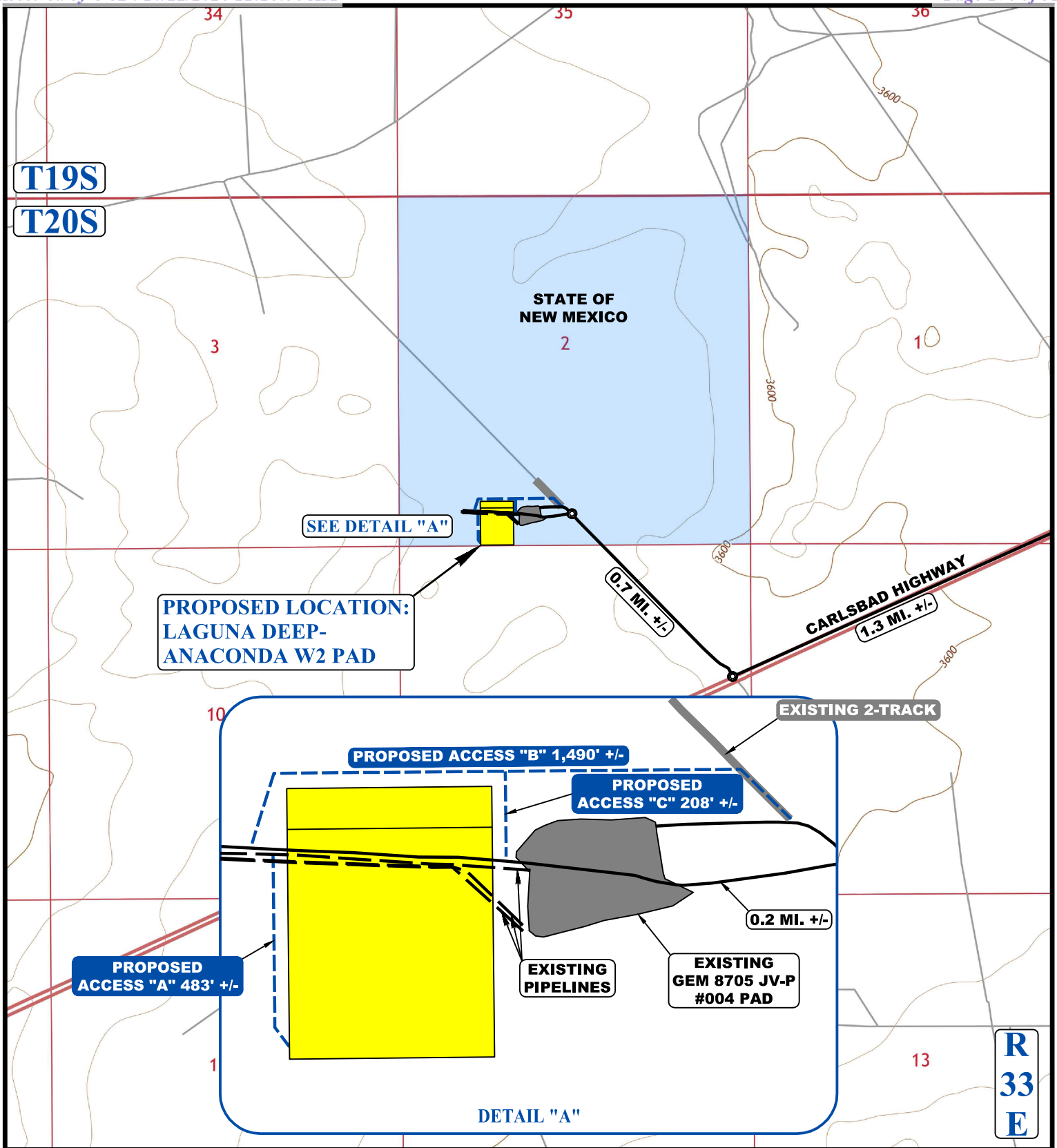
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	SCALE
DRAWN BY	N.R.	05-20-26	1 : 100,000
ACCESS ROAD MAP			EXHIBIT B

UINTAH ENGINEERING & LAND SURVEYING

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



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

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING 2-TRACK
- EXISTING PIPELINE

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

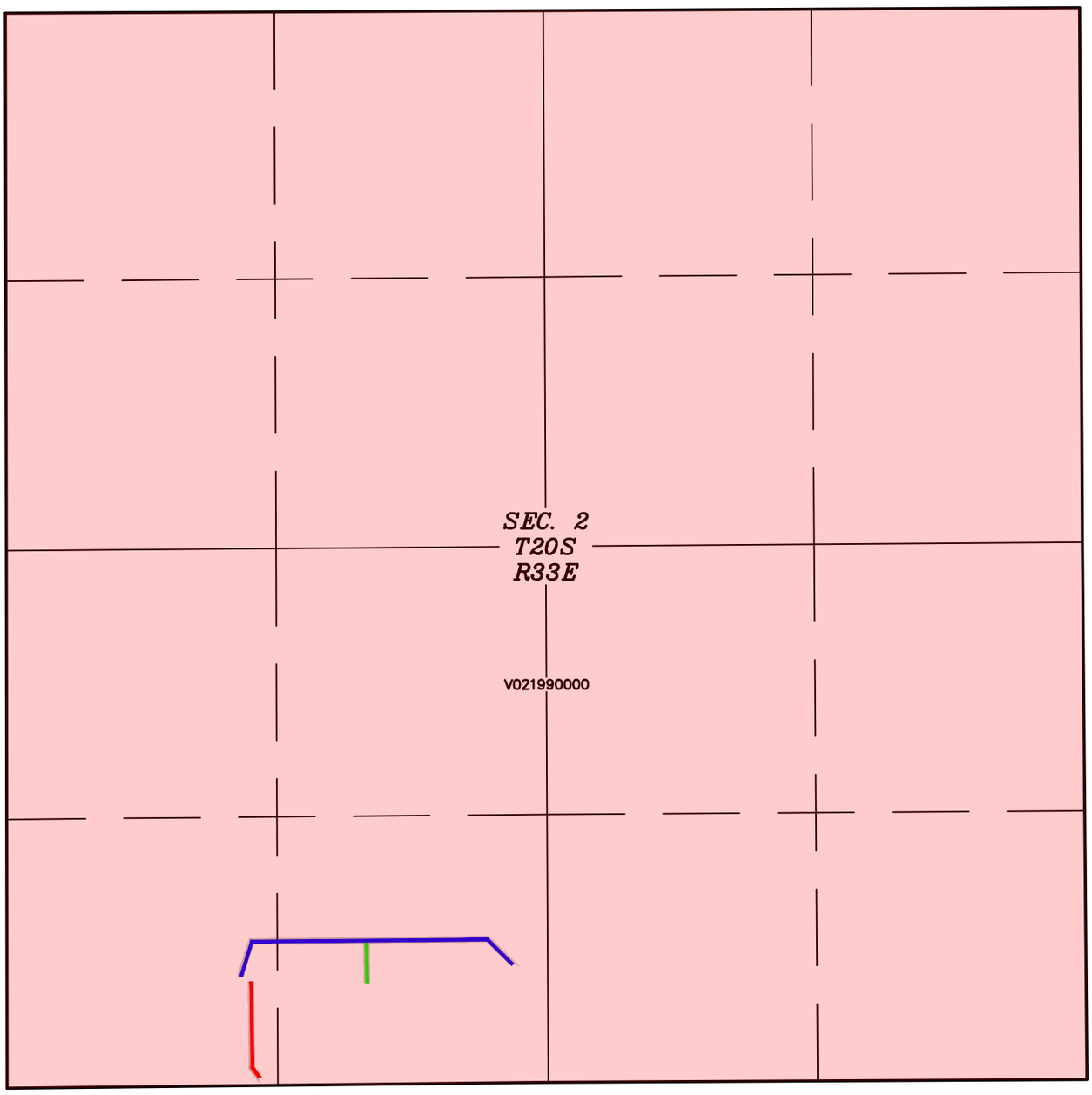
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	SCALE
DRAWN BY	N.R.	05-20-26	1 : 24,000

ACCESS ROAD MAP | **EXHIBIT D**

Page 175 of 317



LEGEND:

- PROPOSED ROAD "A"
- PROPOSED ROAD "B"
- PROPOSED ROAD "C"
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

NOTES:

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

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

N

REV: 01 06-16-26 H.S.S. (ROAD CHANGES)

COTERRA ENERGY OPERATING CO.

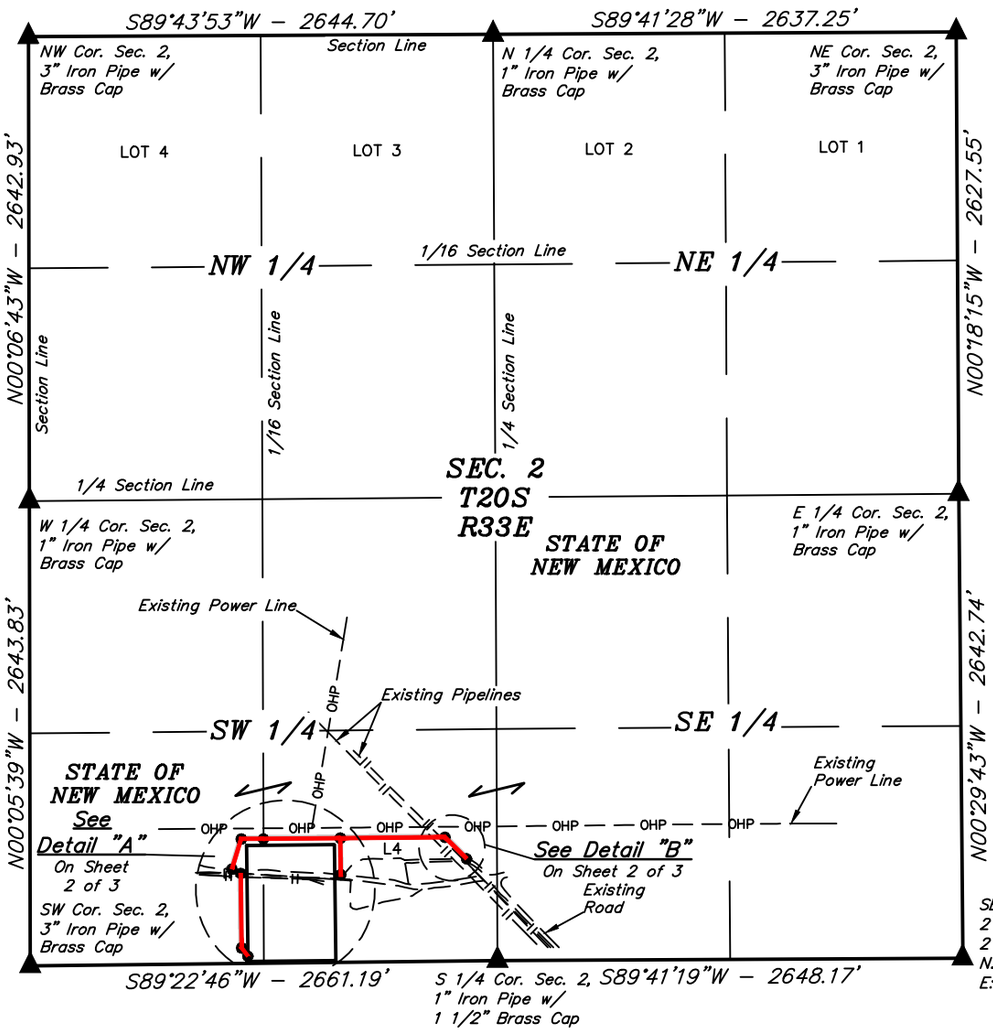
LAGUNA DEEP-ANACONDA W2 PAD
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	**SCALE**
DRAWN BY	L.K.	06-03-26	N/A

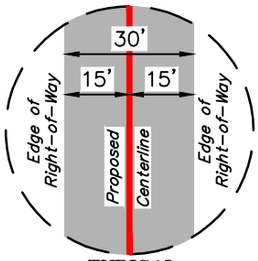
OVERALL ACCESS ROAD NETWORK

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 176 of 317



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°37'14"E	423.44'
L2	S36°39'57"E	59.48'
L3	N45°15'42"W	173.46'
L4	S89°30'42"W	595.55'
L5	S89°30'22"W	437.77'
L6	S89°30'22"W	126.21'
L7	S17°20'41"W	179.34'
L8	N00°37'14"W	207.95'



TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

ACREAGE / LENGTH TABLE "A"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SW 1/4 SW 1/4)	482.92	29.27	0.333

ACREAGE / LENGTH TABLE "B"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SE 1/4 SW 1/4)	1206.78	73.14	0.831
SEC. 2 (SW 1/4 SW 1/4)	305.55	18.52	0.210
TOTAL	1512.33	91.66	1.041

ACREAGE / LENGTH TABLE "C"			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SE 1/4 SW 1/4)	207.95	12.60	0.143

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
06-16-26

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

Sheet 1 of 3

REV: 01	06-16-26	H.S.S.	(ROAD CHANGES)

NOTES:
- The maximum grade of existing ground for the proposed access road "A" is ±6.42%.
- The maximum grade of existing ground for the proposed access road "B" is ±10.22%.
- The maximum grade of existing ground for the proposed access road "A" is ±0.97%.
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	1" = 1000'
FILE	COT01-26-0062-A1		

ACCESS ROAD R-O-W **EXHIBIT D**

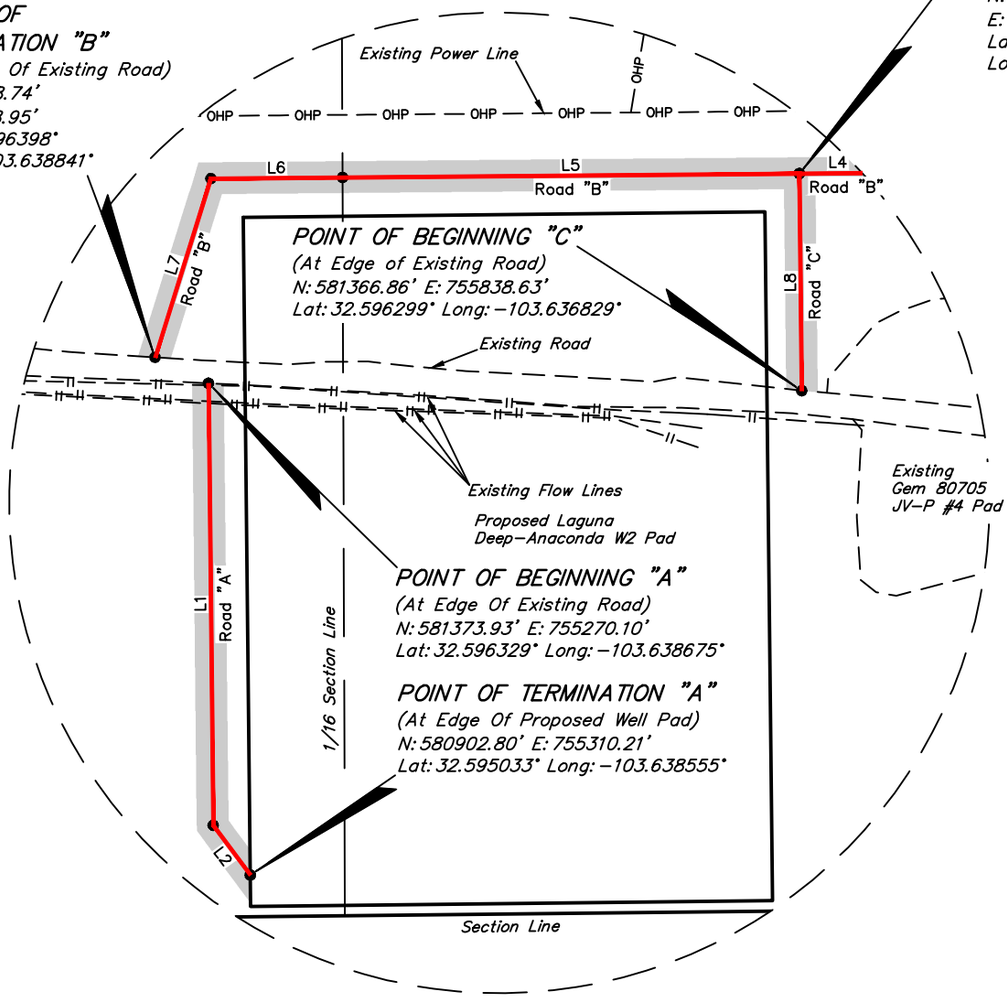
UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

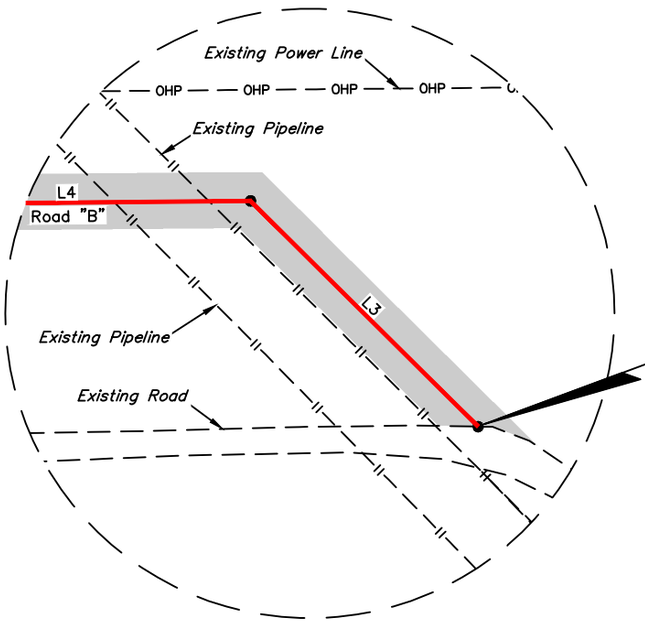
Page 177 of 317

POINT OF TERMINATION "C"
(At Road "B")
N: 581574.79'
E: 755836.38'
Lat: 32.596871°
Long: −103.636832°

POINT OF TERMINATION "B"
(At Edge Of Existing Road)
N: 581398.74'
E: 755218.95'
Lat: 32.596398°
Long: −103.638841°



Detail "A"
No Scale



POINT OF BEGINNING "B"
(At Edge of Existing Road)
N: 581457.77' E: 756555.12'
Lat: 32.596536° Long: −103.634501°

Detail "B"
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.

STATE OF NEW MEXICO
23782
PROFESSIONAL SURVEYOR
06−16−26

Sheet 2 of 3

REV: 01	06-16-26	H.S.S.	(ROAD CHANGES)

NOTES:
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	N/A
FILE	COT01-26-0062-A2		
ACCESS ROAD R-O-W			EXHIBIT D

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

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 178 of 317

ACCESS ROAD "A" RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE SW 1/4 SW 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581373.93' AND THE EASTING: 755270.10'; THENCE S00°37'14"E 423.44'; THENCE S36°39'57"E 59.48' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 580902.80' AND THE EASTING: 755310.21'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.333 ACRES MORE OR LESS. BEARINGS, DISTANCES, COORDINATES AND AREAS ARE BASED ON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, IN U.S. FEET.

ACCESS ROAD "B" RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE SE 1/4 SW 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581457.77' AND THE EASTING: 756555.12'; THENCE N45°15'42"W 173.46'; THENCE S89°30'42"W 595.55'; THENCE CONTINUING S89°30'22"W 437.77' TO A POINT ON THE WEST LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 2; THENCE CONTINUING S89°30'22"W 126.21'; THENCE S17°20'41"W 179.34' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581398.74' AND THE EASTING: 755218.95'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 1.041 ACRES MORE OR LESS. BEARINGS, DISTANCES, COORDINATES AND AREAS ARE BASED ON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, IN U.S. FEET.

ACCESS ROAD "C" RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE SE 1/4 SW 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581366.86' AND THE EASTING: 755838.63'; THENCE N00°37'14"W 207.95' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581574.79' AND THE EASTING: 755836.38'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.143 ACRES MORE OR LESS. BEARINGS, DISTANCES, COORDINATES AND AREAS ARE BASED ON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, IN U.S. FEET.

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
23782
06-16-26

REV: 01	06-16-26	H.S.S.	(ROAD CHANGES)

NOTES:

- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

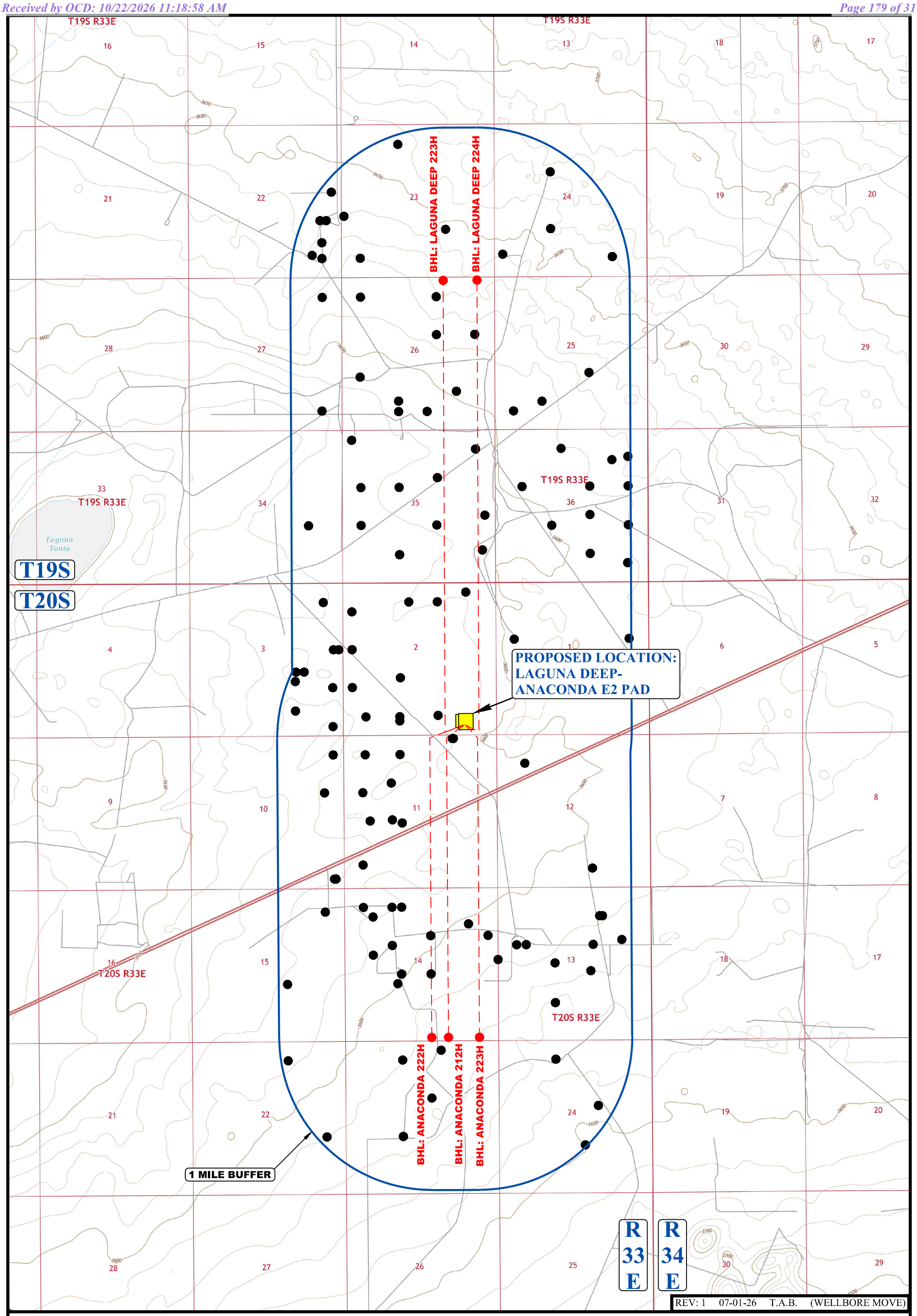
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	N/A
FILE	COT01-26-0062-A3		
ACCESS ROAD R-O-W			EXHIBIT D

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

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM



REV: 1 07-01-26 T.A.B. (WELLBORE MOVE)

LEGEND:

● EXISTING WELLS

N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	SCALE
DRAWN BY	N.R.	05-22-26	1 : 36,000

WELL PROXIMITY MAP **EXHIBIT E**

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

UINTAH ENGINEERING & LAND SURVEYING

LAGUNA DEEP-ANACONDA E2 PAD

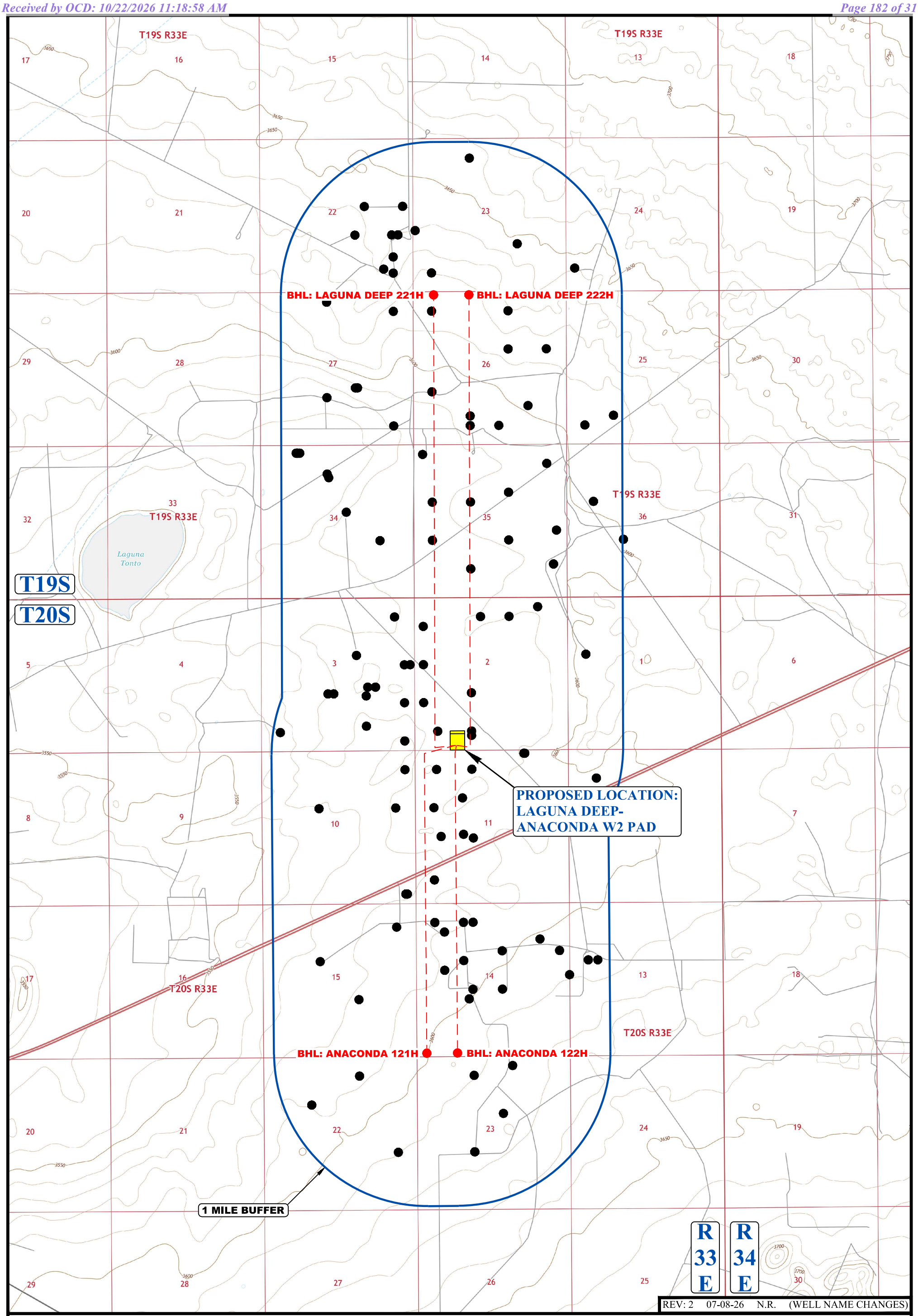
SUPPLEMENTAL OIL & GAS SPREADSHEET TO TOPO "C"
DATE: 05-22-26 N.R.

API	OPERATOR	WELL NAME	WELL TYPE	WELL STATUS	UNIT LETTER	SECTION	TOWNSHIP	RANGE	NAD 83 LATITUDE	NAD 83 LONGITUDE
30-025-30896	GRACE 1 FEDERAL #001	BRECK OPERATING CORP	Gas	Plugged (site released)	H	1	20S	33E	32.6040	-103.6104
30-025-01705	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	E	1	20S	33E	32.6040	-103.6233
30-025-31318	GEM 8705 JV-P #006H	BTA OIL PRODUCERS, LLC	Gas	Active	K	2	20S	33E	32.6004	-103.6361
30-025-29916	GEM 8705 JV-P #001	BTA OIL PRODUCERS, LLC	Oil	Active	B	2	20S	33E	32.6076	-103.6319
30-025-31209	GEM 8705 JV-P #004	BTA OIL PRODUCERS, LLC	Oil	Active	N	2	20S	33E	32.5963	-103.6362
30-025-31271	GEM 8705 JV-P #005	BTA OIL PRODUCERS, LLC	Oil	Active	M	2	20S	33E	32.5967	-103.6400
30-025-34726	GEM 8705 JV-P #007	BTA OIL PRODUCERS, LLC	Oil	Active	L	2	20S	33E	32.5995	-103.6415
30-025-34841	GEM 8705 JV-P #009	BTA OIL PRODUCERS, LLC	Oil	Active	A	2	20S	33E	32.6085	-103.6287
30-025-30468	GEM 8705 JV-P #002	BTA OIL PRODUCERS, LLC	Oil	Plugged (not released)	C	2	20S	33E	32.6076	-103.6351
30-025-34727	GEM 8705 JV-P #008	BTA OIL PRODUCERS, LLC	Oil	Plugged (not released)	E	2	20S	33E	32.6031	-103.6415
30-025-23897	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	N	2	20S	33E	32.5967	-103.6362
30-025-40315	GEM 8705 JV-P #010	BTA OIL PRODUCERS, LLC	Oil	Plugged (site released)	D	2	20S	33E	32.6067	-103.6415
30-025-34543	VIPER 3 FEDERAL #001	Earthstone Operating, LLC	Gas	Active	J	3	20S	33E	32.6010	-103.6478
30-025-34872	PYTHON 3 FEDERAL #001	NEARBURG PRODUCING CO	Gas	Plugged (site released)	J	3	20S	33E	32.6001	-103.6479
30-025-01707	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	A	3	20S	33E	32.6076	-103.6447
30-025-34728	TONTO FEDERAL #003	SHACKELFORD OIL CO	Oil	Plugged (site released)	P	3	20S	33E	32.5958	-103.6437
30-025-34913	PYTHON 3 FEDERAL #002	NEARBURG PRODUCING CO	Oil	Plugged (site released)	O	3	20S	33E	32.5973	-103.6479
30-025-34935	TONTO FEDERAL #004	SHACKELFORD OIL CO	Oil	Plugged (site released)	I	3	20S	33E	32.5995	-103.6437
30-025-35081	PYTHON 3 FEDERAL #003	Earthstone Operating, LLC	Oil	Plugged (site released)	J	3	20S	33E	32.6010	-103.6469
30-025-35474	PYTHON 3 FEDERAL #004	NEARBURG PRODUCING CO	Oil	Plugged (site released)	H	3	20S	33E	32.6031	-103.6430
30-025-35475	PYTHON 3 FEDERAL #005	NEARBURG PRODUCING CO	Oil	Plugged (site released)	H	3	20S	33E	32.6031	-103.6436
30-025-38055	NEW SHERIFF 10 FEDERAL COM #001	SHACKELFORD OIL CO	Gas	Active	P	10	20S	33E	32.5813	-103.6435
30-025-29265	TONTO FEDERAL #001	SHACKELFORD OIL CO	Oil	Active	H	10	20S	33E	32.5895	-103.6447
30-025-35101	TONTO FEDERAL #002	SHACKELFORD OIL CO	Oil	Active	A	10	20S	33E	32.5931	-103.6437
30-025-01716	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Miscellaneous	Plugged (site released)	P	10	20S	33E	32.5813	-103.6436
30-025-36797	GUNSLINGER 11 FEDERAL COM #001	COG OPERATING LLC	Gas	Active	M	11	20S	33E	32.5826	-103.6404
30-025-31138	SMITH RANCH FEDERAL #002	COG OPERATING LLC	Oil	Active	C	11	20S	33E	32.5931	-103.6362
30-025-31683	SMITH RANCH 11 FEDERAL #002	BXP Operating, LLC	Oil	Active	K	11	20S	33E	32.5866	-103.6360
30-025-48539	ANACONDA 11 14 3BS FEDERAL COM #013H	Earthstone Operating, LLC	Oil	Active	B	11	20S	33E	32.5946	-103.6303
30-025-48540	ANACONDA 11 14 3BS FEDERAL COM #007H	Earthstone Operating, LLC	Oil	Active	B	11	20S	33E	32.5946	-103.6302
30-025-38122	GUNSLINGER 11 FEDERAL COM #002	COG OPERATING LLC	Gas	Plugged (site released)	K	11	20S	33E	32.5869	-103.6371
30-025-26810	SMITH RANCH FEDERAL #001	COG OPERATING LLC	Oil	Plugged (site released)	E	11	20S	33E	32.5895	-103.6404
30-025-31255	SMITH RANCH 11 FEDERAL #001	MERIT ENERGY COMPANY, LLC	Oil	Plugged (site released)	L	11	20S	33E	32.5868	-103.6396
30-025-34934	ANACONDA 11 FEDERAL #002	NEARBURG PRODUCING CO	Oil	Plugged (site released)	F	11	20S	33E	32.5904	-103.6372
30-025-34701	ANACONDA 11 FEDERAL #001	Earthstone Operating, LLC	Oil	Temporary Abandonment	D	11	20S	33E	32.5931	-103.6401
30-025-01718	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	O	12	20S	33E	32.5822	-103.6147
30-025-27709	EAST SMITH RANCH FEDERAL #001	COG OPERATING LLC	Oil	Plugged (site released)	D	12	20S	33E	32.5922	-103.6222
30-025-31274	SIX SHOOTER 13 FEDERAL #001	WPX Energy Permian, LLC	Gas	Plugged (site released)	B	13	20S	33E	32.5777	-103.6139
30-025-31397	SHARP NOSE FEDERAL #001	XTO ENERGY, INC	Gas	Plugged (site released)	J	13	20S	33E	32.5724	-103.6149
30-025-01719	TEAS YATES UNIT #082	MOMENTUM OPERATING CO INC	Oil	Active	E	13	20S	33E	32.5750	-103.6222
30-025-01721	TEAS YATES UNIT #041	MOMENTUM OPERATING CO INC	Oil	Active	G	13	20S	33E	32.5749	-103.6147
30-025-01723	TEAS YATES UNIT #033	MOMENTUM OPERATING CO INC	Oil	Active	H	13	20S	33E	32.5754	-103.6115
30-025-28028	TEAS YATES UNIT #023	MOMENTUM OPERATING CO INC	Oil	Active	C	13	20S	33E	32.5694	-103.6190
30-025-28029	TEAS YATES UNIT #024	MOMENTUM OPERATING CO INC	Oil	Active	F	13	20S	33E	32.5732	-103.6190
30-025-28030	TEAS YATES UNIT #083	MOMENTUM OPERATING CO INC	Oil	Active	E	13	20S	33E	32.5736	-103.6254
30-025-01726	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	E	13	20S	33E	32.5750	-103.6233
30-025-01729	TEAS YATES UNIT #053	MOMENTUM OPERATING CO INC	Oil	Active	F	14	20S	33E	32.5750	-103.6372
30-025-01730	TEAS YATES UNIT #052	MOMENTUM OPERATING CO INC	Oil	Active	C	14	20S	33E	32.5786	-103.6372
30-025-01731	TEAS YATES UNIT #054	MOMENTUM OPERATING CO INC	Oil	Active	E	14	20S	33E	32.5741	-103.6393
30-025-01732	TEAS YATES UNIT #071	MOMENTUM OPERATING CO INC	Oil	Active	K	14	20S	33E	32.5722	-103.6362
30-025-01733	TEAS YATES UNIT #101	MOMENTUM OPERATING CO INC	Oil	Active	H	14	20S	33E	32.5759	-103.6265
30-025-01735	MAHAFFEY ARC FEDERAL #001	BXP Operating, LLC	Oil	Active	C	14	20S	33E	32.5786	-103.6361
30-025-01736	TEAS YATES UNIT #142	MOMENTUM OPERATING CO INC	Oil	Active	J	14	20S	33E	32.5722	-103.6329
30-025-01737	TEAS YATES UNIT #102	MOMENTUM OPERATING CO INC	Oil	Active	G	14	20S	33E	32.5759	-103.6329
30-025-24745	TEAS YATES UNIT #055	MOMENTUM OPERATING CO INC	Oil	Active	D	14	20S	33E	32.5777	-103.6393
30-025-28032	TEAS YATES UNIT #112	MOMENTUM OPERATING CO INC	Oil	Active	A	14	20S	33E	32.5770	-103.6286
30-025-36719	MAVERICK 14 FEDERAL COM #001	COG OPERATING LLC	Oil	Active	K	14	20S	33E	32.5713	-103.6366
30-025-01728	TEAS YATES UNIT #001	ANADARKO PETROLEUM CORP	Oil	Plugged (site released)	D	14	20S	33E	32.5786	-103.6404
30-025-37230	BANDIT 15 FEDERAL COM #001	COG OPERATING LLC	Gas	Active	A	15	20S	33E	32.5782	-103.6447
30-025-37231	BANDIT 15 FEDERAL COM #002	COG OPERATING LLC	Gas	Plugged (site released)	J	15	20S	33E	32.5713	-103.6490
30-025-01678	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	I	22	19S	33E	32.6439	-103.6448
30-025-01680	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	H	22	19S	33E	32.6466	-103.6435
30-025-01681	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	P	22	19S	33E	32.6406	-103.6457

LAGUNA DEEP-ANACONDA E2 PAD

SUPPLEMENTAL OIL & GAS SPREADSHEET TO TOPO "C"
DATE: 05-22-26 N.R.

API	OPERATOR	WELL NAME	WELL TYPE	WELL STATUS	UNIT LETTER	SECTION	TOWNSHIP	RANGE	NAD 83 LATITUDE	NAD 83 LONGITUDE
30-025-01682	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	P	22	19S	33E	32.6418	-103.6446
30-025-01683	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	P	22	19S	33E	32.6403	-103.6446
30-025-08342	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	I	22	19S	33E	32.6439	-103.6441
30-025-40725	OUTLAW 22 FEDERAL COM #001H	COG OPERATING LLC	Oil	Active	B	22	20S	33E	32.5641	-103.6490
30-025-01754	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	I	22	20S	33E	32.5568	-103.6447
30-025-31198	SAPPHIRE FEDERAL SWD #002	Coterra Energy Operating Co.	Oil	Active	C	23	19S	33E	32.6511	-103.6360
30-025-01685	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	L	23	19S	33E	32.6443	-103.6421
30-025-01686	PRE-ONGARD WELL #003	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	M	23	19S	33E	32.6403	-103.6403
30-025-30510	SAPPHIRE FED #001	DEVON ENERGY OPERATING COMPANY LP	Oil	Plugged (site released)	J	23	19S	33E	32.6430	-103.6307
30-025-01761	CHARLES S LOOMIS A FEDERAL #002	SHACKELFORD OIL CO	Oil	Active	K	23	20S	33E	32.5568	-103.6361
30-025-27748	SOUTH TEAS FEDERAL #001	SHACKELFORD OIL CO	Oil	Active	G	23	20S	33E	32.5604	-103.6329
30-025-01755	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	B	23	20S	33E	32.5650	-103.6318
30-025-01756	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	C	23	20S	33E	32.5641	-103.6361
30-025-01758	USA BERNICE DINNIN A #1 #001	TENNESSEE GAS TRANSMISSION	Oil	Plugged (site released)	G	23	20S	33E	32.5568	-103.6361
30-025-34484	ESMERALDA 24 FEDERAL #001	Coterra Energy Operating Co.	Gas	Active	K	24	19S	33E	32.6430	-103.6189
30-025-38388	AFTON 24 FEDERAL COM #001	Earthstone Operating, LLC	Gas	Active	P	24	19S	33E	32.6403	-103.6120
30-025-23716	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	M	24	19S	33E	32.6406	-103.6243
30-025-24384	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	F	24	19S	33E	32.6484	-103.6189
30-025-01762	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	C	24	20S	33E	32.5641	-103.6189
30-025-01764	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	J	24	20S	33E	32.5559	-103.6157
30-025-30680	FEDERAL 24 #001	TEMPO ENERGY INC	Oil	Plugged (site released)	G	24	20S	33E	32.5596	-103.6142
30-025-27705	SMITH #001	Coterra Energy Operating Co.	Gas	Active	J	25	19S	33E	32.6293	-103.6147
30-025-36569	LAGUNA DEEP UNIT #008	Coterra Energy Operating Co.	Gas	Active	M	25	19S	33E	32.6257	-103.6232
30-025-37992	LAGUNA DEEP UNIT #012	Coterra Energy Operating Co.	Oil	Plugged (not released)	N	25	19S	33E	32.6266	-103.6200
30-025-26440	LAGUNA DEEP FEDERAL UNIT #002	Coterra Energy Operating Co.	Gas	Active	N	26	19S	33E	32.6267	-103.6361
30-025-38121	LAGUNA DEEP UNIT #010	Coterra Energy Operating Co.	Gas	Active	I	26	19S	33E	32.6276	-103.6296
30-025-30695	LAGUNA DEEP FEDERAL UNIT #004	CIMAREX ENERGY CO. OF COLORADO	Gas	Plugged (site released)	B	26	19S	33E	32.6366	-103.6318
30-025-01687	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	D	26	19S	33E	32.6366	-103.6403
30-025-22487	BATE FEDERAL #001	COG OPERATING LLC	Oil	Plugged (site released)	N	26	19S	33E	32.6257	-103.6361
30-025-22737	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	O	26	19S	33E	32.6257	-103.6329
30-025-23382	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	G	26	19S	33E	32.6330	-103.6318
30-025-23383	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	H	26	19S	33E	32.6330	-103.6275
30-025-24083	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	L	26	19S	33E	32.6290	-103.6404
30-025-01689	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	A	27	19S	33E	32.6366	-103.6446
30-025-01690	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	P	27	19S	33E	32.6258	-103.6447
30-025-27286	PRE-ONGARD WELL #001Y	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	J	27	19S	33E	32.6294	-103.6487
30-025-34390	JADE 34 FEDERAL #001	Earthstone Operating, LLC	Gas	Plugged (site released)	I	34	19S	33E	32.6149	-103.6463
30-025-34749	LAGUNA DEEP FEDERAL UNIT #005	Coterra Energy Operating Co.	Gas	Active	E	35	19S	33E	32.6185	-103.6404
30-025-37686	LAGUNA DEEP UNIT #009	SHACKELFORD OIL CO	Gas	Active	J	35	19S	33E	32.6149	-103.6319
30-025-40943	LAGUNA DEEP UNIT 35 FEDERAL #002H	SHACKELFORD OIL CO	Oil	Active	P	35	19S	33E	32.6125	-103.6268
30-025-25886	LAGUNA DEEP FEDERAL #001	CIMAREX ENERGY CO. OF COLORADO	Gas	Plugged (site released)	G	35	19S	33E	32.6194	-103.6318
30-025-27152	LAGUNA DEEP FEDERAL #003	SHACKELFORD OIL CO	Gas	Plugged (site released)	N	35	19S	33E	32.6121	-103.6361
30-025-01703	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	F	35	19S	33E	32.6185	-103.6361
30-025-01704	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	A	35	19S	33E	32.6221	-103.6275
30-025-23636	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	D	35	19S	33E	32.6230	-103.6414
30-025-33572	GEM 35 FEDERAL #001	BEPCO, LP	Oil	Plugged (site released)	L	35	19S	33E	32.6149	-103.6404
30-025-39946	LAGUNA DEEP UNIT 35 FEDERAL #001	SHACKELFORD OIL CO	Oil	Plugged (site released)	I	35	19S	33E	32.6158	-103.6265
30-025-29918	PENNZOIL 36 STATE #001	Coterra Energy Operating Co.	Gas	Active	I	36	19S	33E	32.6148	-103.6104
30-025-35971	PENNZOIL 36 STATE COM #002	Coterra Energy Operating Co.	Gas	Active	A	36	19S	33E	32.6210	-103.6122
30-025-36255	LAGUNA DEEP UNIT #007	Coterra Energy Operating Co.	Oil	Active	E	36	19S	33E	32.6185	-103.6223
30-025-38300	PENNZOIL B 36 STATE #002	Coterra Energy Operating Co.	Oil	Active	J	36	19S	33E	32.6158	-103.6147
30-025-38556	LAGUNA DEEP UNIT #016	Coterra Energy Operating Co.	Oil	Active	K	36	19S	33E	32.6148	-103.6190
30-025-38559	PENNZOIL B 36 STATE #004	Coterra Energy Operating Co.	Oil	Active	O	36	19S	33E	32.6121	-103.6147
30-025-38560	PENNZOIL B 36 STATE #005	Coterra Energy Operating Co.	Oil	Active	P	36	19S	33E	32.6112	-103.6105
30-025-40812	LAGUNA DEEP UNIT #021H	Coterra Energy Operating Co.	Oil	Active	C	36	19S	33E	32.6221	-103.6179
30-025-38559	PENNZOIL B 36 STATE #004	Coterra Energy Operating Co.	Oil	Active	O	36	19S	33E	32.6121	-103.6147
30-025-38560	PENNZOIL B 36 STATE #005	Coterra Energy Operating Co.	Oil	Active	P	36	19S	33E	32.6112	-103.6105
30-025-37991	PENNZOIL B 36 STATE #001	Coterra Energy Operating Co.	Oil	Plugged (not released)	H	36	19S	33E	32.6185	-103.6104
30-025-38558	PENNZOIL B 36 STATE #003	CIMAREX ENERGY CO. OF COLORADO	Oil	Plugged (site released)	G	36	19S	33E	32.6185	-103.6147
30-025-38624	PENNZOIL B 36 STATE #007	CIMAREX ENERGY CO. OF COLORADO	Oil	Plugged (site released)	A	36	19S	33E	32.6213	-103.6104



REV: 2 07-08-26 N.R. (WELL NAME CHANGES)

LEGEND:

● EXISTING WELLS

N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	SCALE
DRAWN BY	N.R.	05-20-26	1 : 36,000
WELL PROXIMITY MAP			EXHIBIT E

UINTAH ENGINEERING & LAND SURVEYING

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

LAGUNA DEEP-ANACONDA W2

SUPPLEMENTAL OIL & GAS SPREADSHEET TO TOPO "C"

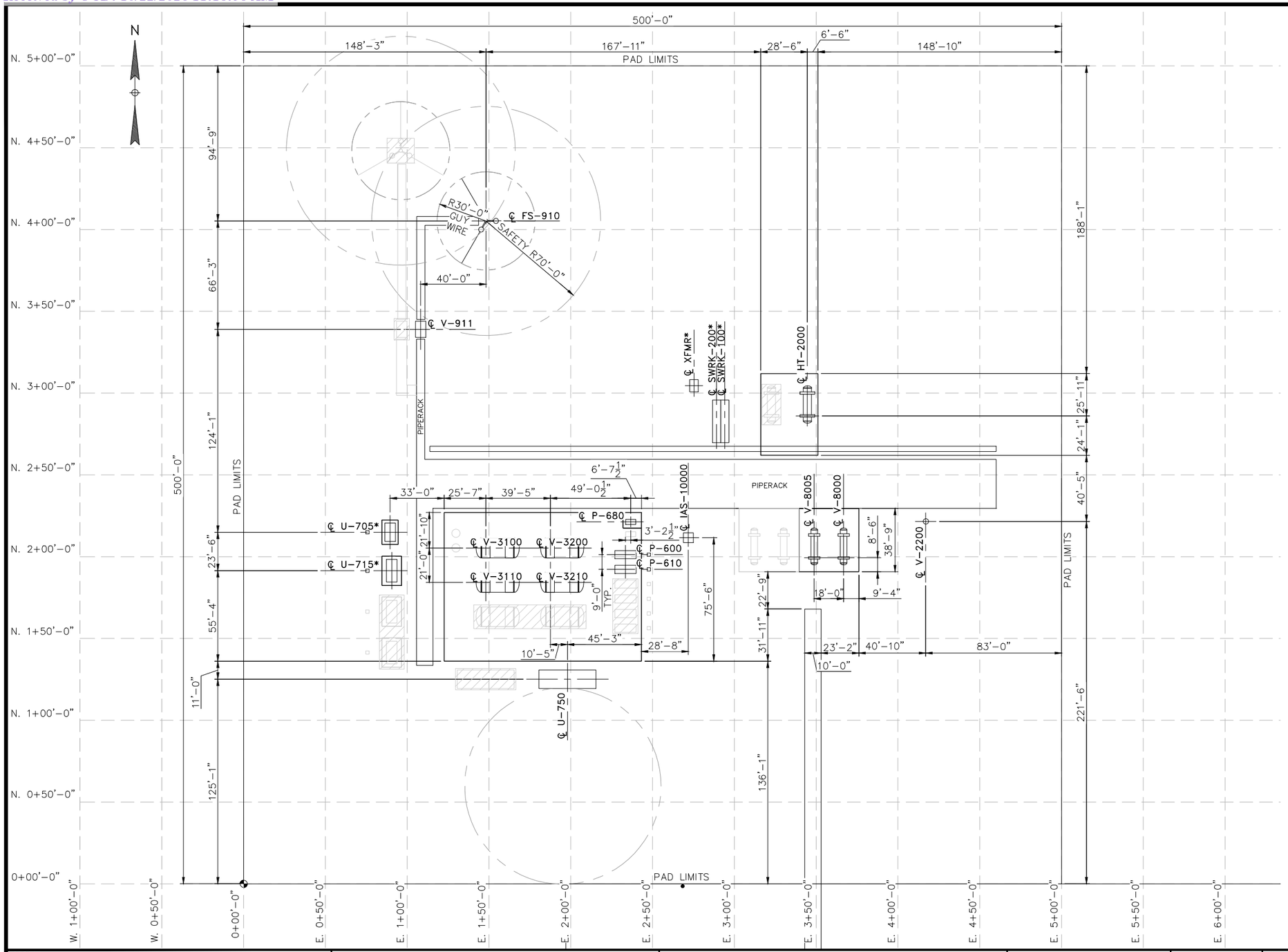
DATE: 05-20-26 N.R.

API	OPERATOR	WELL NAME	WELL TYPE	WELL STATUS	UNIT LETTER	SECTION	TOWNSHIP	RANGE	NAD 83 LATITUDE	NAD 83 LONGITUDE
30-025-01705	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	E	1	20S	33E	32.6040	-103.6233
30-025-31318	GEM 8705 JV-P #006H	BTA OIL PRODUCERS, LLC	Gas	Active	K	2	20S	33E	32.6004	-103.6361
30-025-29916	GEM 8705 JV-P #001	BTA OIL PRODUCERS, LLC	Oil	Active	B	2	20S	33E	32.6076	-103.6319
30-025-31209	GEM 8705 JV-P #004	BTA OIL PRODUCERS, LLC	Oil	Active	N	2	20S	33E	32.5963	-103.6362
30-025-31271	GEM 8705 JV-P #005	BTA OIL PRODUCERS, LLC	Oil	Active	M	2	20S	33E	32.5967	-103.6400
30-025-34726	GEM 8705 JV-P #007	BTA OIL PRODUCERS, LLC	Oil	Active	L	2	20S	33E	32.5995	-103.6415
30-025-34841	GEM 8705 JV-P #009	BTA OIL PRODUCERS, LLC	Oil	Active	A	2	20S	33E	32.6085	-103.6287
30-025-30468	GEM 8705 JV-P #002	BTA OIL PRODUCERS, LLC	Oil	Plugged (not released)	C	2	20S	33E	32.6076	-103.6351
30-025-34727	GEM 8705 JV-P #008	BTA OIL PRODUCERS, LLC	Oil	Plugged (not released)	E	2	20S	33E	32.6031	-103.6415
30-025-23897	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	N	2	20S	33E	32.5967	-103.6362
30-025-40315	GEM 8705 JV-P #010	BTA OIL PRODUCERS, LLC	Oil	Plugged (site released)	D	2	20S	33E	32.6067	-103.6415
30-025-34543	VIPER 3 FEDERAL #001	Earthstone Operating, LLC	Gas	Active	J	3	20S	33E	32.6010	-103.6478
30-025-34872	PYTHON 3 FEDERAL #001	NEARBURG PRODUCING CO	Gas	Plugged (site released)	J	3	20S	33E	32.6001	-103.6479
30-025-01707	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	A	3	20S	33E	32.6076	-103.6447
30-025-34728	TONTO FEDERAL #003	SHACKELFORD OIL CO	Oil	Plugged (site released)	P	3	20S	33E	32.5958	-103.6437
30-025-34913	PYTHON 3 FEDERAL #002	NEARBURG PRODUCING CO	Oil	Plugged (site released)	O	3	20S	33E	32.5973	-103.6479
30-025-34935	TONTO FEDERAL #004	SHACKELFORD OIL CO	Oil	Plugged (site released)	I	3	20S	33E	32.5995	-103.6437
30-025-35081	PYTHON 3 FEDERAL #003	Earthstone Operating, LLC	Oil	Plugged (site released)	J	3	20S	33E	32.6010	-103.6469
30-025-35474	PYTHON 3 FEDERAL #004	NEARBURG PRODUCING CO	Oil	Plugged (site released)	H	3	20S	33E	32.6031	-103.6430
30-025-35475	PYTHON 3 FEDERAL #005	NEARBURG PRODUCING CO	Oil	Plugged (site released)	H	3	20S	33E	32.6031	-103.6436
30-025-01706	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	M	3	20S	33E	32.5967	-103.6576
30-025-21836	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	G	3	20S	33E	32.6040	-103.6490
30-025-35421	PYTHON 3 FEDERAL #007	NEARBURG PRODUCING CO	Oil	Plugged (site released)	K	3	20S	33E	32.6004	-103.6522
30-025-35647	PYTHON 3 FEDERAL #006	Earthstone Operating, LLC	Oil	Plugged (site released)	K	3	20S	33E	32.6004	-103.6516
30-025-29265	TONTO FEDERAL #001	SHACKELFORD OIL CO	Oil	Active	H	10	20S	33E	32.5895	-103.6447
30-025-35101	TONTO FEDERAL #002	SHACKELFORD OIL CO	Oil	Active	A	10	20S	33E	32.5931	-103.6437
30-025-38055	NEW SHERIFF 10 FEDERAL COM #001	SHACKELFORD OIL CO	Gas	Active	P	10	20S	33E	32.5813	-103.6435
30-025-01716	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Miscellaneous	Plugged (site released)	P	10	20S	33E	32.5813	-103.6436
30-025-20372	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	F	10	20S	33E	32.5895	-103.6533
30-025-31683	SMITH RANCH 11 FEDERAL #002	BXP Operating, LLC	Oil	Active	K	11	20S	33E	32.5866	-103.6360
30-025-48539	ANACONDA 11 14 3BS FEDERAL COM #013H	Earthstone Operating, LLC	Oil	Active	B	11	20S	33E	32.5946	-103.6303
30-025-48540	ANACONDA 11 14 3BS FEDERAL COM #007H	Earthstone Operating, LLC	Oil	Active	B	11	20S	33E	32.5946	-103.6302
30-025-38122	GUNSLINGER 11 FEDERAL COM #002	COG OPERATING LLC	Gas	Plugged (site released)	K	11	20S	33E	32.5869	-103.6371
30-025-26810	SMITH RANCH FEDERAL #001	COG OPERATING LLC	Oil	Plugged (site released)	E	11	20S	33E	32.5895	-103.6404
30-025-34934	ANACONDA 11 FEDERAL #002	NEARBURG PRODUCING CO	Oil	Plugged (site released)	F	11	20S	33E	32.5904	-103.6372
30-025-34701	ANACONDA 11 FEDERAL #001	Earthstone Operating, LLC	Oil	Temporary Abandonment	D	11	20S	33E	32.5931	-103.6401
30-025-36797	GUNSLINGER 11 FEDERAL COM #001	COG OPERATING LLC	Gas	Active	M	11	20S	33E	32.5826	-103.6404
30-025-31138	SMITH RANCH FEDERAL #002	COG OPERATING LLC	Oil	Active	C	11	20S	33E	32.5931	-103.6362
30-025-31255	SMITH RANCH 11 FEDERAL #001	MERIT ENERGY COMPANY, LLC	Oil	Plugged (site released)	L	11	20S	33E	32.5868	-103.6396
30-025-27709	EAST SMITH RANCH FEDERAL #001	COG OPERATING LLC	Oil	Plugged (site released)	D	12	20S	33E	32.5922	-103.6222
30-025-01726	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	E	13	20S	33E	32.5750	-103.6232
30-025-01719	TEAS YATES UNIT #082	MOMENTUM OPERATING CO INC	Oil	Active	E	13	20S	33E	32.5750	-103.6222
30-025-28030	TEAS YATES UNIT #083	MOMENTUM OPERATING CO INC	Oil	Active	E	13	20S	33E	32.5736	-103.6254
30-025-01729	TEAS YATES UNIT #053	MOMENTUM OPERATING CO INC	Oil	Active	F	14	20S	33E	32.5750	-103.6372
30-025-01730	TEAS YATES UNIT #052	MOMENTUM OPERATING CO INC	Oil	Active	C	14	20S	33E	32.5786	-103.6372
30-025-01731	TEAS YATES UNIT #054	MOMENTUM OPERATING CO INC	Oil	Active	E	14	20S	33E	32.5741	-103.6393
30-025-01733	TEAS YATES UNIT #101	MOMENTUM OPERATING CO INC	Oil	Active	H	14	20S	33E	32.5759	-103.6265
30-025-01735	MAHAFFEY ARC FEDERAL #001	BXP Operating, LLC	Oil	Active	C	14	20S	33E	32.5786	-103.6361
30-025-01736	TEAS YATES UNIT #142	MOMENTUM OPERATING CO INC	Oil	Active	J	14	20S	33E	32.5722	-103.6329
30-025-01737	TEAS YATES UNIT #102	MOMENTUM OPERATING CO INC	Oil	Active	G	14	20S	33E	32.5759	-103.6329
30-025-24745	TEAS YATES UNIT #055	MOMENTUM OPERATING CO INC	Oil	Active	D	14	20S	33E	32.5777	-103.6393
30-025-01728	TEAS YATES UNIT #001	ANADARKO PETROLEUM CORP	Oil	Plugged (site released)	D	14	20S	33E	32.5786	-103.6404
30-025-01732	TEAS YATES UNIT #071	MOMENTUM OPERATING CO INC	Oil	Active	K	14	20S	33E	32.5722	-103.6362
30-025-28032	TEAS YATES UNIT #112	MOMENTUM OPERATING CO INC	Oil	Active	A	14	20S	33E	32.5770	-103.6286
30-025-36719	MAVERICK 14 FEDERAL COM #001	COG OPERATING LLC	Oil	Active	K	14	20S	33E	32.5713	-103.6366
30-025-37230	BANDIT 15 FEDERAL COM #001	COG OPERATING LLC	Gas	Active	A	15	20S	33E	32.5782	-103.6447
30-025-37231	BANDIT 15 FEDERAL COM #002	COG OPERATING LLC	Gas	Plugged (site released)	J	15	20S	33E	32.5713	-103.6490
30-025-20459	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	F	15	20S	33E	32.5749	-103.6533
30-025-01678	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	I	22	19S	33E	32.6439	-103.6448
30-025-01679	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	G	22	19S	33E	32.6466	-103.6478
30-025-01680	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	H	22	19S	33E	32.6466	-103.6435
30-025-01681	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	P	22	19S	33E	32.6406	-103.6457
30-025-01682	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	P	22	19S	33E	32.6418	-103.6446

LAGUNA DEEP-ANACONDA W2

SUPPLEMENTAL OIL & GAS SPREADSHEET TO TOPO "C"
DATE: 05-20-26 N.R.

API	OPERATOR	WELL NAME	WELL TYPE	WELL STATUS	UNIT LETTER	SECTION	TOWNSHIP	RANGE	NAD 83 LATITUDE	NAD 83 LONGITUDE
30-025-01683	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	P	22	19S	33E	32.6403	-103.6446
30-025-01684	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	J	22	19S	33E	32.6439	-103.6489
30-025-08342	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	I	22	19S	33E	32.6439	-103.6441
30-025-40725	OUTLAW 22 FEDERAL COM #001H	COG OPERATING LLC	Oil	Active	B	22	20S	33E	32.5641	-103.6490
30-025-01754	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	I	22	20S	33E	32.5568	-103.6447
30-025-21326	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	F	22	20S	33E	32.5613	-103.6543
30-025-31198	SAPPHIRE FEDERAL SWD #002	Coterra Energy Operating Co.	Oil	Active	C	23	19S	33E	32.6511	-103.6360
30-025-01686	PRE-ONGARD WELL #003	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	M	23	19S	33E	32.6403	-103.6403
30-025-30510	SAPPHIRE FED #001	DEVON ENERGY OPERATING COMPANY LP	Oil	Plugged (site released)	J	23	19S	33E	32.6430	-103.6307
30-025-01685	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	L	23	19S	33E	32.6443	-103.6421
30-025-01761	CHARLES S LOOMIS A FEDERAL #002	SHACKELFORD OIL CO	Oil	Active	K	23	20S	33E	32.5568	-103.6361
30-025-27748	SOUTH TEAS FEDERAL #001	SHACKELFORD OIL CO	Oil	Active	G	23	20S	33E	32.5604	-103.6329
30-025-01755	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	B	23	20S	33E	32.5650	-103.6318
30-025-01756	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	C	23	20S	33E	32.5641	-103.6361
30-025-01758	USA BERNICE DINNIN A #1 #001	TENNESSEE GAS TRANSMISSION	Oil	Plugged (site released)	G	23	20S	33E	32.5568	-103.6361
30-025-23716	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	M	24	19S	33E	32.6406	-103.6243
30-025-37992	LAGUNA DEEP UNIT #012	Coterra Energy Operating Co.	Oil	Plugged (not released)	N	25	19S	33E	32.6266	-103.6200
30-025-36569	LAGUNA DEEP UNIT #008	Coterra Energy Operating Co.	Gas	Active	M	25	19S	33E	32.6257	-103.6232
30-025-30695	LAGUNA DEEP FEDERAL UNIT #004	CIMAREX ENERGY CO. OF COLORADO	Gas	Plugged (site released)	B	26	19S	33E	32.6366	-103.6318
30-025-01687	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	D	26	19S	33E	32.6366	-103.6403
30-025-22487	BATE FEDERAL #001	COG OPERATING LLC	Oil	Plugged (site released)	N	26	19S	33E	32.6257	-103.6361
30-025-22737	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	O	26	19S	33E	32.6257	-103.6329
30-025-23382	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	G	26	19S	33E	32.6330	-103.6318
30-025-23383	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	H	26	19S	33E	32.6330	-103.6275
30-025-24083	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	L	26	19S	33E	32.6290	-103.6404
30-025-26440	LAGUNA DEEP FEDERAL UNIT #002	Coterra Energy Operating Co.	Gas	Active	N	26	19S	33E	32.6267	-103.6361
30-025-38121	LAGUNA DEEP UNIT #010	Coterra Energy Operating Co.	Gas	Active	I	26	19S	33E	32.6276	-103.6296
30-025-01688	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	C	27	19S	33E	32.6375	-103.6521
30-025-01689	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	A	27	19S	33E	32.6366	-103.6446
30-025-01690	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	P	27	19S	33E	32.6258	-103.6447
30-025-22968	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	K	27	19S	33E	32.6285	-103.6521
30-025-27175	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	J	27	19S	33E	32.6294	-103.6489
30-025-27286	PRE-ONGARD WELL #001Y	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	J	27	19S	33E	32.6294	-103.6487
30-025-34648	JADE 34 FEDERAL COM #002	Earthstone Operating, LLC	Gas	Active	C	34	19S	33E	32.6212	-103.6522
30-025-45408	JADE 34 3 1BS FEDERAL COM #006H	Earthstone Operating, LLC	Oil	Active	D	34	19S	33E	32.6232	-103.6555
30-025-45406	JADE 34 3 2BS FEDERAL COM #004H	Earthstone Operating, LLC	Oil	Active	D	34	19S	33E	32.6232	-103.6554
30-025-50018	JADE 34 3 1BS FEDERAL COM #010H	Earthstone Operating, LLC	Oil	Active	C	34	19S	33E	32.6232	-103.6552
30-025-50019	JADE 34 3 2BS FEDERAL COM #013H	Earthstone Operating, LLC	Oil	Active	D	34	19S	33E	32.6232	-103.6556
30-025-34390	JADE 34 FEDERAL #001	Earthstone Operating, LLC	Gas	Plugged (site released)	I	34	19S	33E	32.6149	-103.6463
30-025-36820	JADE 34 FEDERAL COM #003	Earthstone Operating, LLC	Gas	Plugged (site released)	C	34	19S	33E	32.6209	-103.6520
30-025-24324	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	G	34	19S	33E	32.6176	-103.6500
30-025-27152	LAGUNA DEEP FEDERAL #003	SHACKELFORD OIL CO	Gas	Plugged (site released)	N	35	19S	33E	32.6121	-103.6361
30-025-01703	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	F	35	19S	33E	32.6185	-103.6361
30-025-33572	GEM 35 FEDERAL #001	BEPCO, LP	Oil	Plugged (site released)	L	35	19S	33E	32.6149	-103.6404
30-025-34749	LAGUNA DEEP FEDERAL UNIT #005	Coterra Energy Operating Co.	Gas	Active	E	35	19S	33E	32.6185	-103.6404
30-025-37686	LAGUNA DEEP UNIT #009	SHACKELFORD OIL CO	Gas	Active	J	35	19S	33E	32.6149	-103.6319
30-025-40943	LAGUNA DEEP UNIT 35 FEDERAL #002H	SHACKELFORD OIL CO	Oil	Active	P	35	19S	33E	32.6125	-103.6268
30-025-25886	LAGUNA DEEP FEDERAL #001	CIMAREX ENERGY CO. OF COLORADO	Gas	Plugged (site released)	G	35	19S	33E	32.6194	-103.6318
30-025-01704	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	A	35	19S	33E	32.6221	-103.6275
30-025-23636	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	Oil	Plugged (site released)	D	35	19S	33E	32.6230	-103.6414
30-025-39946	LAGUNA DEEP UNIT 35 FEDERAL #001	SHACKELFORD OIL CO	Oil	Plugged (site released)	I	35	19S	33E	32.6158	-103.6265
30-025-38556	LAGUNA DEEP UNIT #016	Coterra Energy Operating Co.	Oil	Active	K	36	19S	33E	32.6148	-103.6190
30-025-36255	LAGUNA DEEP UNIT #007	Coterra Energy Operating Co.	Oil	Active	E	36	19S	33E	32.6185	-103.6223



EQUIPMENT		
TAG	DESCRIPTION	HP
HT-2000	HZ HEATER TREATER 60" OD x 20' S/S	
V-8000	4' x 20' S/S 3PH TEST SEPARATOR	
V-8005	4' x 20' S/S 3PH TEST SEPARATOR	
V-2200	2H VERT LP GAS SCRUBBER 30" OD x 10' 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	
P-600	SKIDDED TRANSFER PUMP	100
P-610	SKIDDED TRANSFER PUMP	100
P-680	CENTRIFUGAL RECIRCULATION PUMP	15
U-705	FX10V75 FLOGISTIX VRU	100
U-715	FX12V125 FLOGISTIX VRU	125
U-750	3" PIPELINE W/ BOOSTER	175
FS-910	TRIPOD 3.0/1.5 MMSCFD SINGLE TIP FLARE	20
V-911	FS-910 SCRUBBER SKID	3
IAS-10000	AIR COMPRESSOR	(2) 7.5
IAS-10010	AIR COMPRESSOR	(2) 7.5

ISSUED

FEBRUARY 06, 2026

FOR CONSTRUCTION

VESSEL	WELL NAME
V-8000	BRIDGE 222H
V-8005	BRIDGE 221H

NOTE:

LP B2P4; SOUR;

* FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION

LEGEND

FUTURE

REFERENCE DRAWINGS	
NO.	TITLE

REVISIONS					
NO.	DATE	DESCRIPTION	BY	CHK.	APP.
0	02/06/26	ISSUED FOR CONSTRUCTION	JAV	SP	

3S ENGINEERING & DESIGN
Midland, Texas 79705
Arlington, Texas 76011
Katy, Texas 77449
Ph: 432-687-5611
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:	NV	01/19/26
DES:	NR	
CHK:		
APP:		
AFE No.		
FACILITY ENGR.	C. BOYLE	
PROJ. ENGR:	S. PERALES	
SCALE:	NONE	

COTERRA

BRIDGE CTB

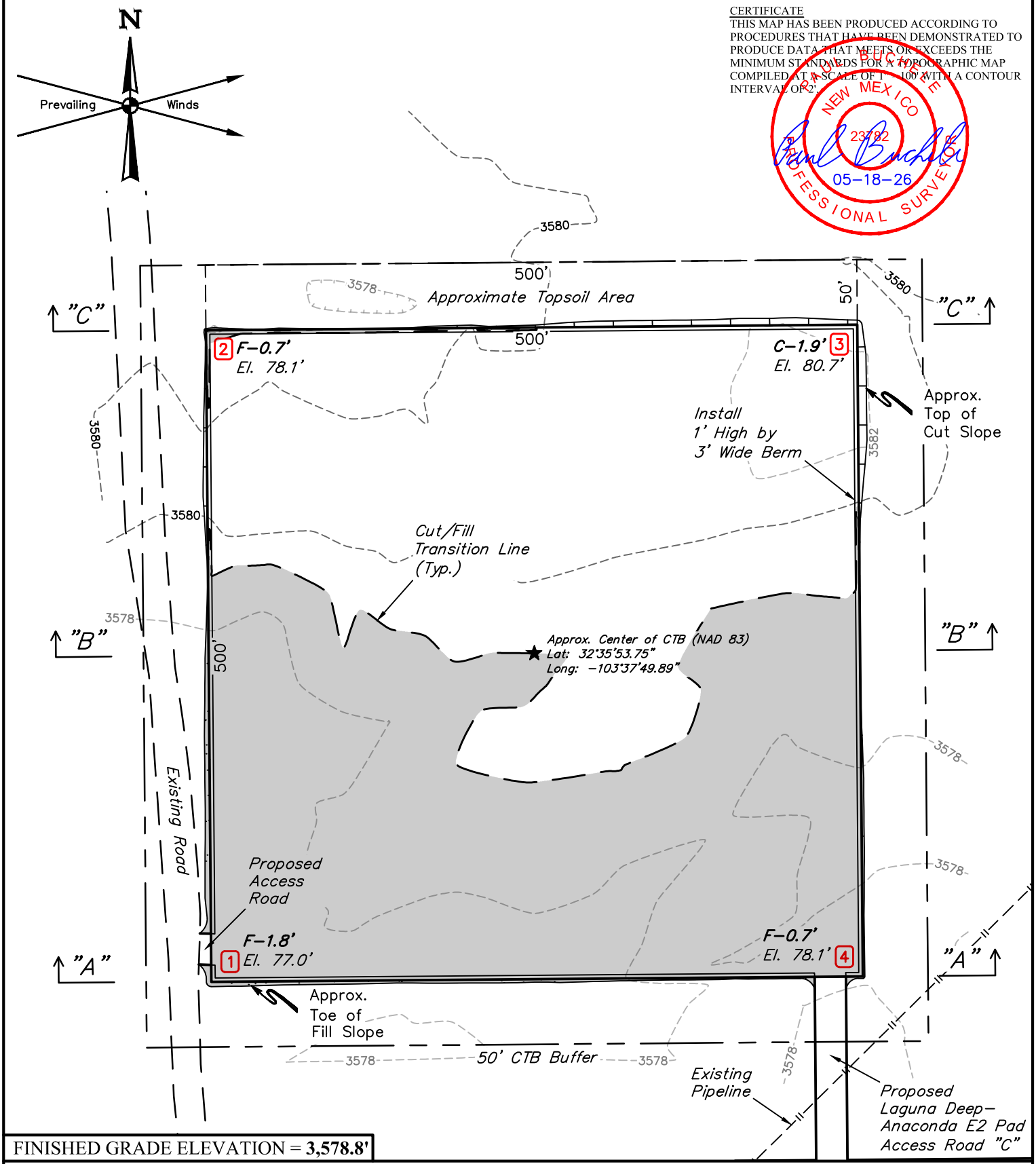
GENERAL ARRANGEMENT PLOT PLAN

LEA COUNTY NM

PLOT SCALE NONE | DWG. NO. D-260065-20-100 | REV 0

CAD NO.

O:\01_Coterra\260065 - Bridge 2026\2_Eng. Design\2.3_Piping_Mech\2.3.2_Plot Plans\D-260065-20-100.dwg 20260204.100256



FINISHED GRADE ELEVATION = **3,578.8'**

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.
- All Bearings, Distances, Coordinates, Areas, and Volumes are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

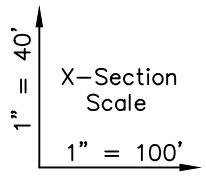
UINTAH ENGINEERING & LAND SURVEYING

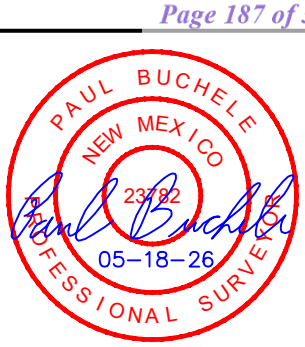
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

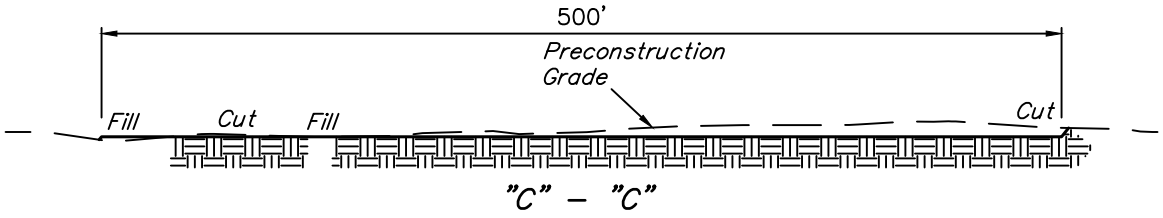
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA CTB
1,211' FSL 1,594' FEL (APPROX. CENTER OF PAD)
W 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

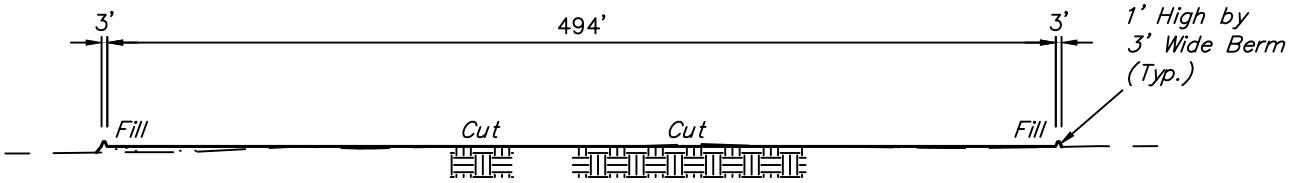
SURVEYED BY	J.H., J.M.	05-07-26	**SCALE**
DRAWN BY	N.R.	05-18-26	1" = 100'
LOCATION LAYOUT			**EXHIBIT F**



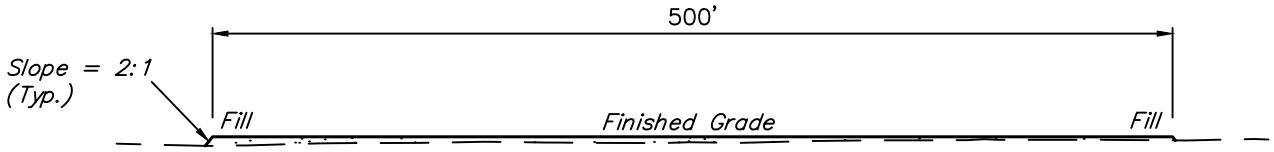




"C" – "C"



"B" – "B"



"A" – "A"

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	3,150 Cu. Yds.
REMAINING LOCATION	5,490 Cu. Yds.
TOTAL CUT	**8,640 Cu. Yds.**
FILL	**5,490 Cu. Yds.**
EXCESS MATERIAL	3,150 Cu. Yds.
TOPSOIL	3,150 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA	NA	±6.448
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±9.05'	±0.006
TOTAL SURFACE USE AREA		**±6.454**

NOTES:

- Fill quantity includes 5% for compaction.
- Cut/Fill slopes 2:1 (Typ. except berm).
- All Bearings, Distances, Coordinates, Areas, and Volumes are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

UINTAH ENGINEERING & LAND SURVEYING

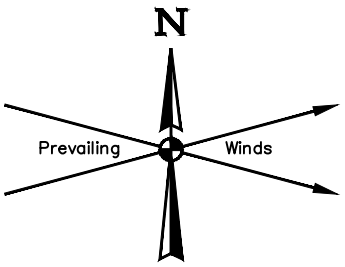
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA CTB
1,211' FSL 1,594' FEL (APPROX. CENTER OF PAD)
W 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	J.H., J.M.	05-07-26	**SCALE**
DRAWN BY	N.R.	05-18-26	AS SHOWN

TYPICAL CROSS SECTIONS **EXHIBIT F**



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S90°W	8'
L2	S45°E	42'



700' X 700' Archaeological Survey Boundary

500'
Approximate Topsoil Area
50'
500'
Existing Road
500'
Proposed Access Road
L1
Proposed Laguna Deep–Anaconda E2 Pad Access Road "C"
L2
Existing Pipeline

NOTES:

- All Bearings, Distances, Coordinates, Areas, and Volumes are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

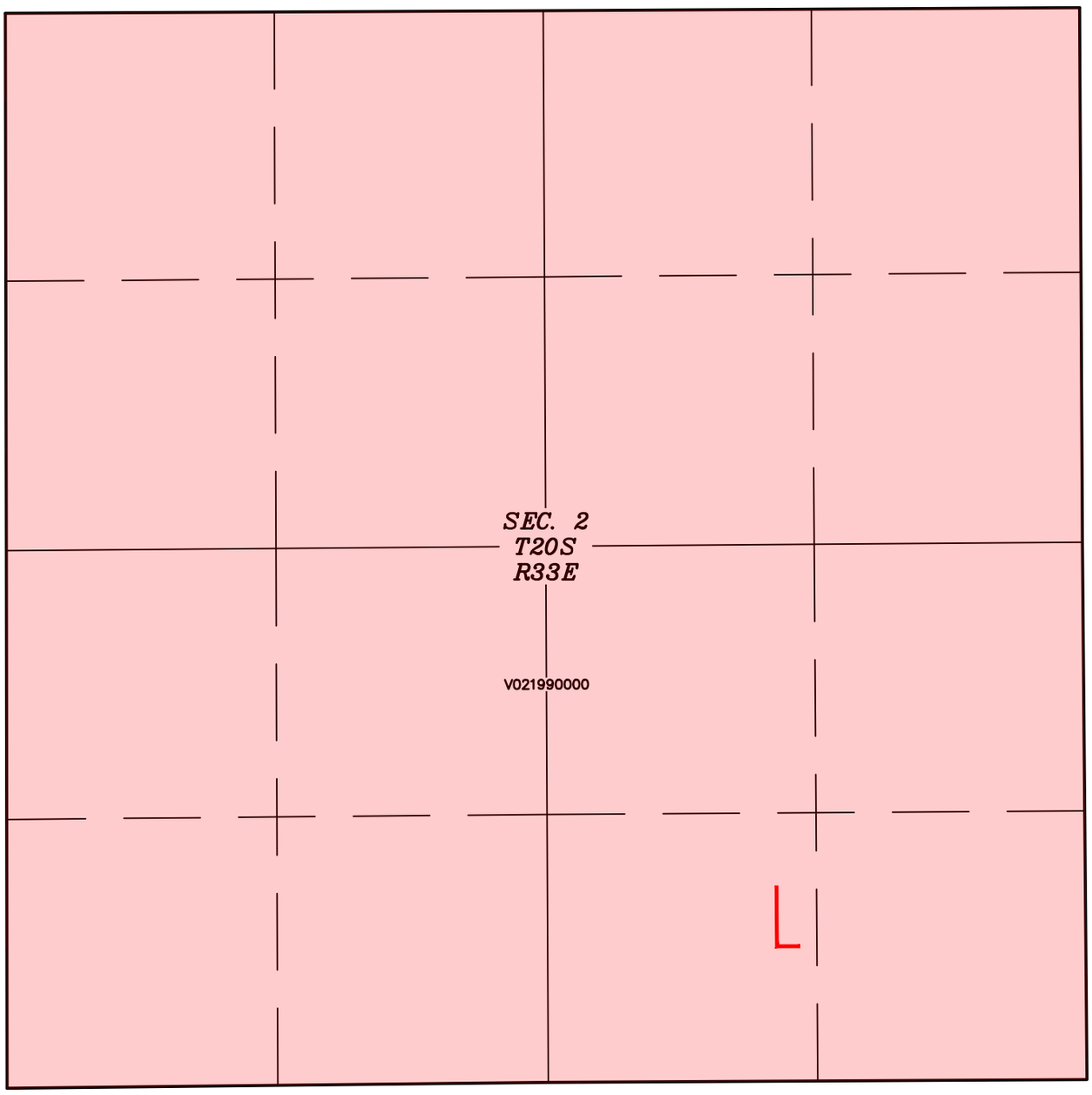
LAGUNA DEEP-ANACONDA CTB
1,211' FSL 1,594' FEL (APPROX. CENTER OF PAD)
W 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	J.H., J.M.	05-07-26	SCALE
DRAWN BY	N.R.	05-18-26	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

Page 189 of 317



LEGEND:

- PROPOSED BULK LINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

NOTES:

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

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

N

COTERRA ENERGY OPERATING CO.

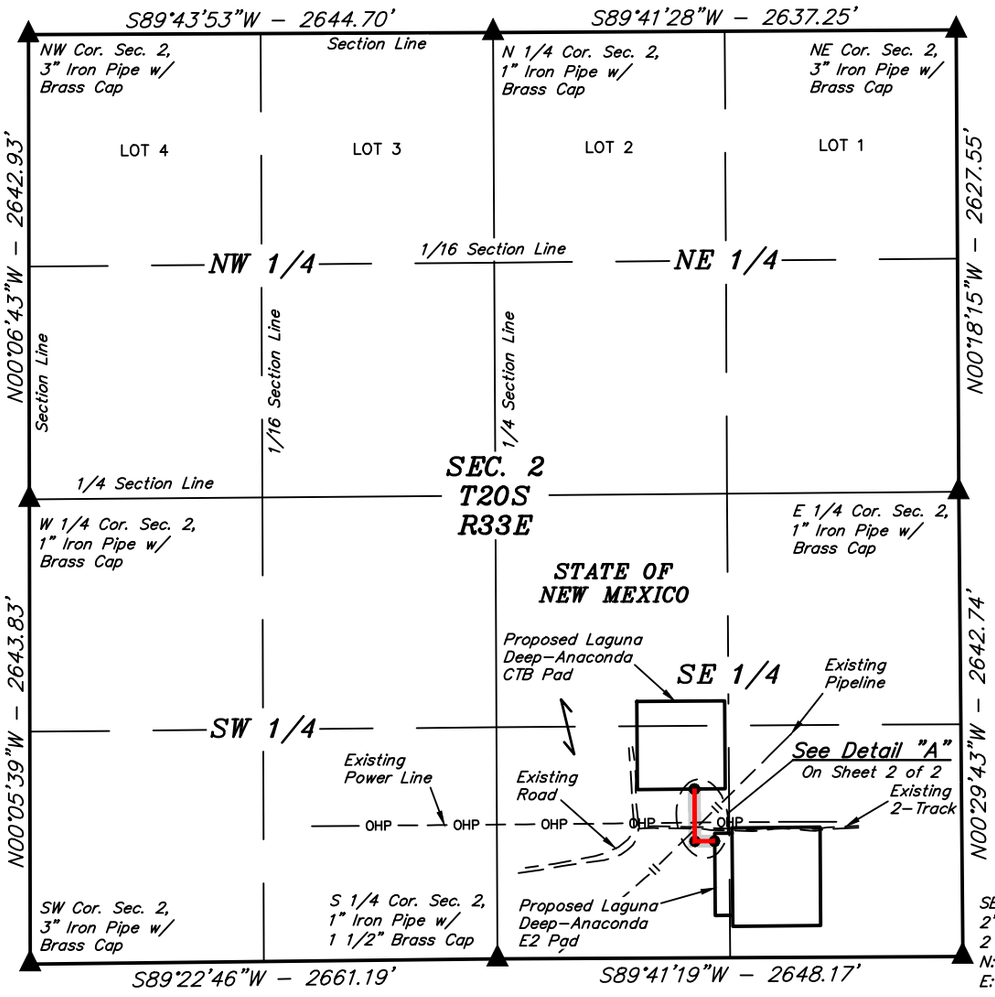
LAGUNA DEEP-ANACONDA E2 PAD
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-04-26	N/A

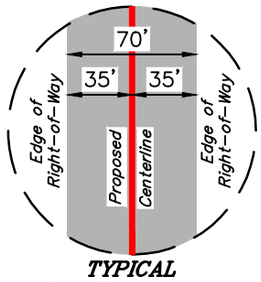
OVERALL BULK PIPELINE

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 190 of 317



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°31'02"W	112.10'
L2	N00°28'58"W	297.77'



TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SW 1/4 SE 1/4)	409.87	24.84	0.659

1000' 500' 0' 1000'

▲ = 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
06-04-26

Sheet 1 of 2

NOTES:
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).
- Water bars will be placed every 6' of elevation change along the route.

N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD ON STATE OF NEW MEXICO LANDS IN SECTION 2, T20S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-04-26	1" = 1000'
FILE	COT01-26-0064-A1		
BULK PIPELINE R-O-W			EXHIBIT M

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

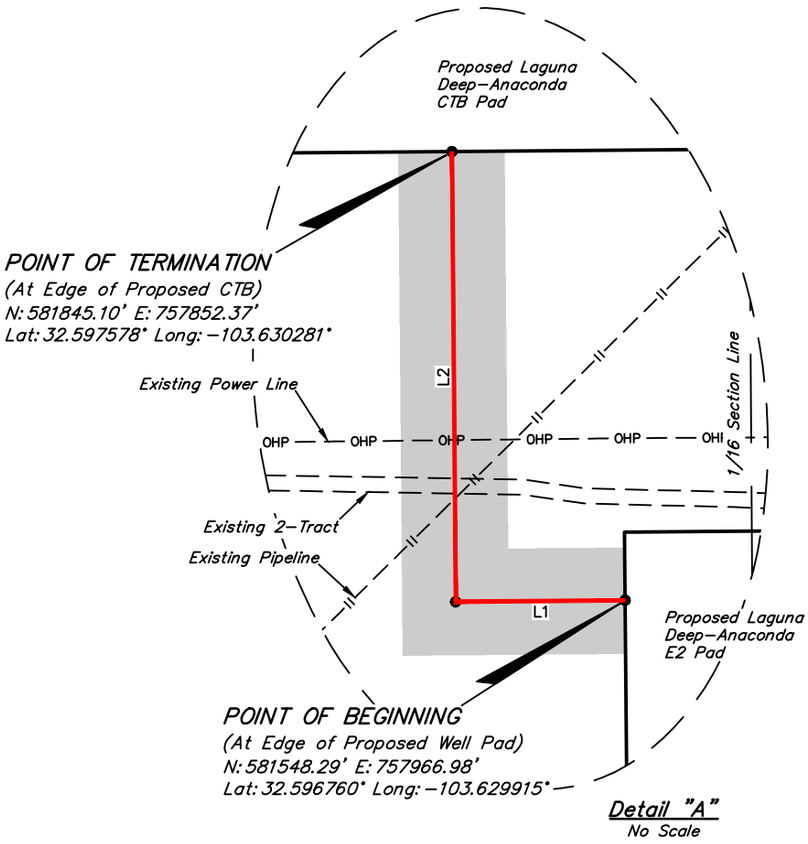
Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 191 of 317

BULK PIPELINE RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE SW 1/4 SE 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581548.29' AND THE EASTING: 757966.98'; THENCE S89°31'02"W 112.10'; THENCE N00°28'58"W 297.77' TO A POINT IN THE SW 1/4 SE 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581845.10' AND THE EASTING: 757852.37'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.659 ACRES MORE OR LESS. ALL BEARINGS, DISTANCES, COORDINATES, AND AREAS LISTED ARE GRID AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83, (U.S. SURVEY FOOT).



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
06-04-26

Sheet 2 of 2

NOTES:

- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).
- Water bars will be placed every 6' of elevation change along the route.

UINTAH ENGINEERING & LAND SURVEYING

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

N

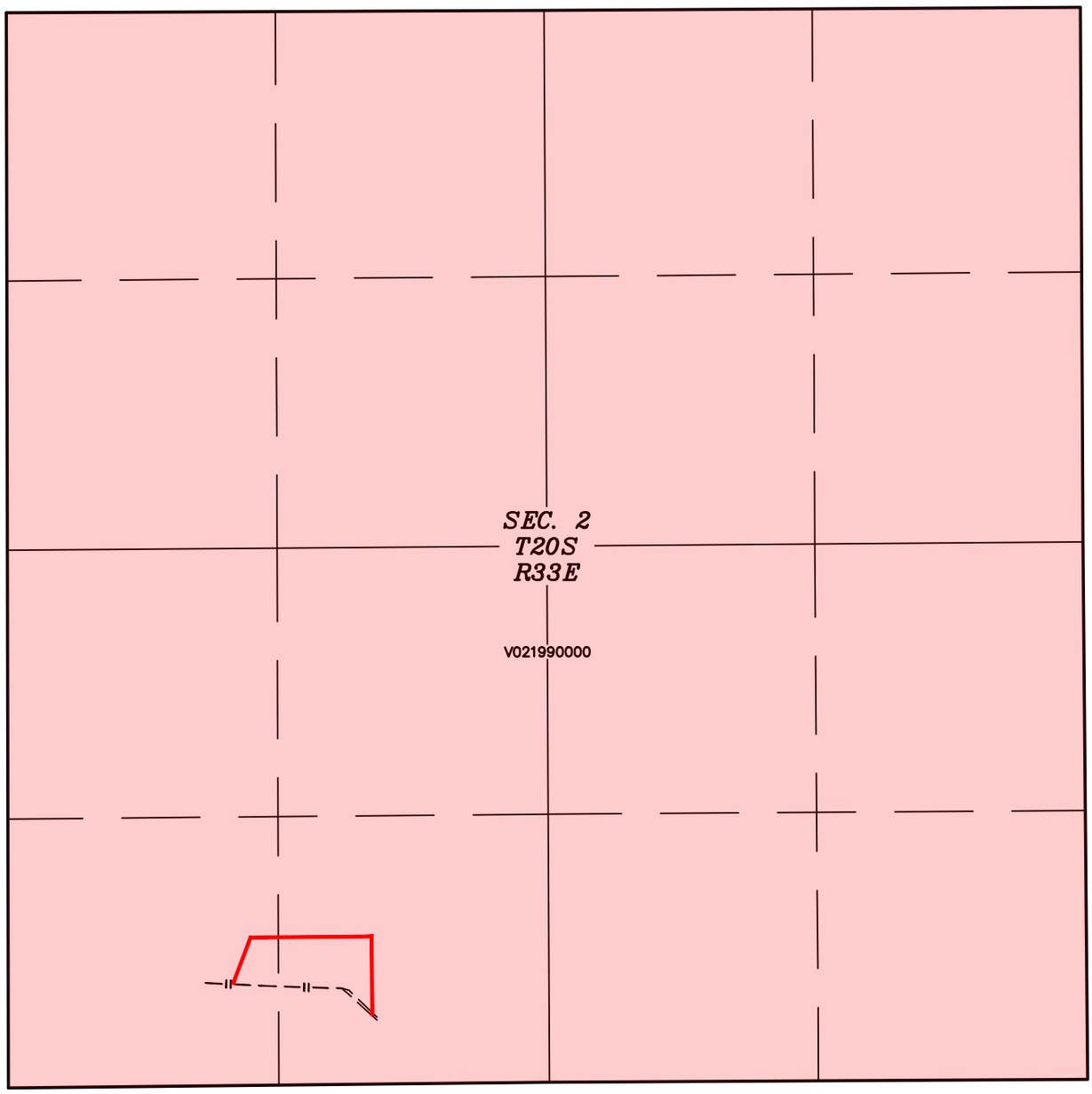
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	**SCALE**
DRAWN BY	L.K.	06-04-26	N/A
FILE	COT01-26-0067-A2		
BULK PIPELINE R-O-W			**EXHIBIT M**

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 192 of 317



LEGEND:

- PROPOSED FLOW LINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

NOTES:

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

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

REV: 01 06-16-26 H.S.S. (FLOW LINE CHANGES)

COTERRA ENERGY OPERATING CO.

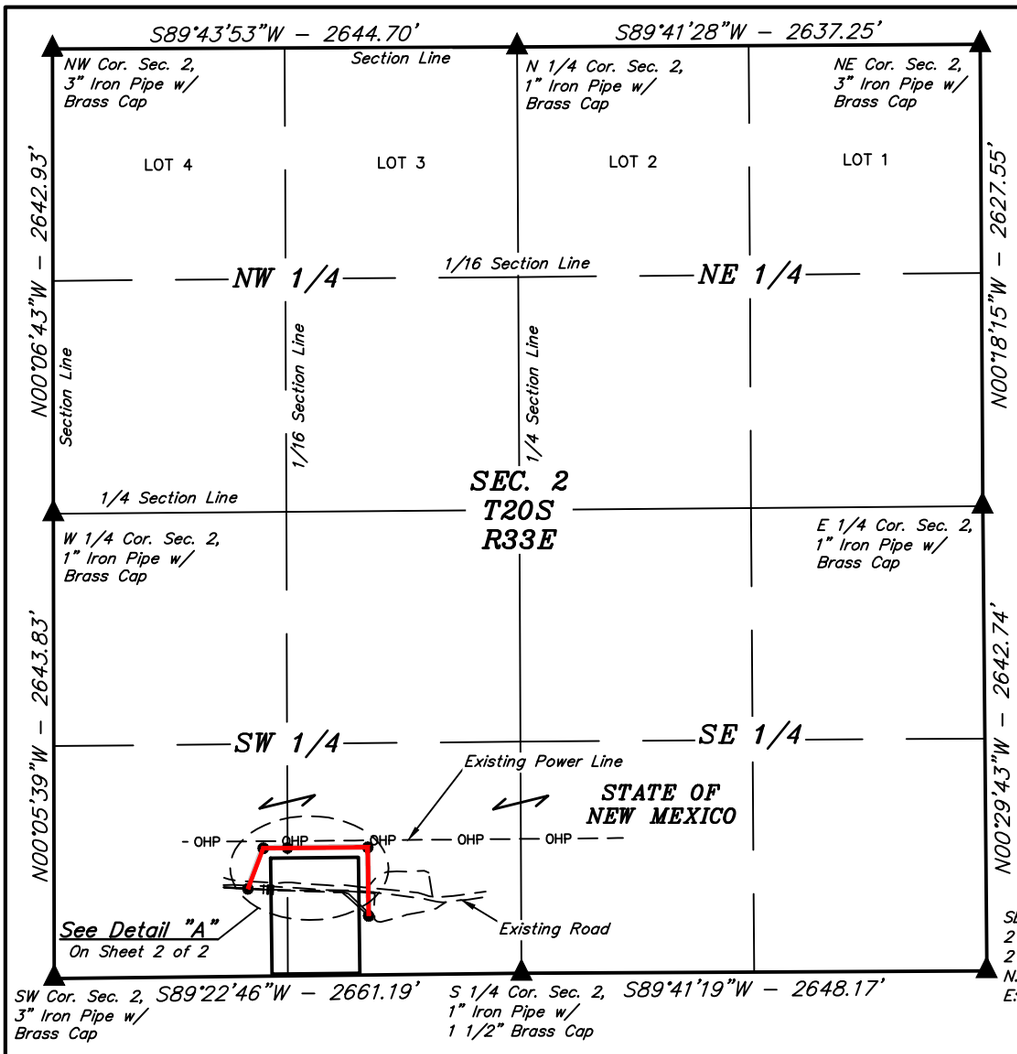
LAGUNA DEEP-ANACONDA W2 PAD
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	N/A

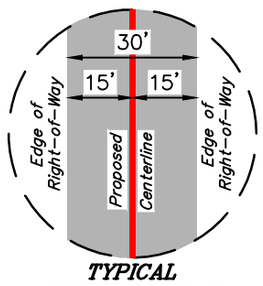
OVERALL FLOW LINE

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 193 of 317



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N00°37'14"W	389.75'
L2	S89°30'22"W	457.62'
L3	S89°30'22"W	137.79'
L4	S20°44'41"W	247.61'



TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

FLOW LINE RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE SE 1/4 SW 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581205.23' AND THE EASTING: 755860.38'; THENCE N00°37'14"W 389.75'; THENCE S89°30'22"W 457.62' TO A POINT ON THE WEST LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 2; THENCE CONTINUING S89°30'22"W 137.79'; THENCE S20°44'41"W 247.61' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581358.28' AND THE EASTING: 755173.08'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 0.849 ACRES MORE OR LESS. ALL BEARINGS, DISTANCES, COORDINATES, AND AREAS LISTED ARE GRID AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83, (U.S. SURVEY FOOT).

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SE 1/4 SW 1/4)	847.37	51.36	0.584
SEC. 2 (SW 1/4 SW 1/4)	385.40	23.36	0.265
TOTAL	1232.77	74.72	0.849

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
06-16-26

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

Sheet 1 of 2

REV: 01 06-16-26 H.S.S. (FLOW LINE CHANGES)

NOTES:
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

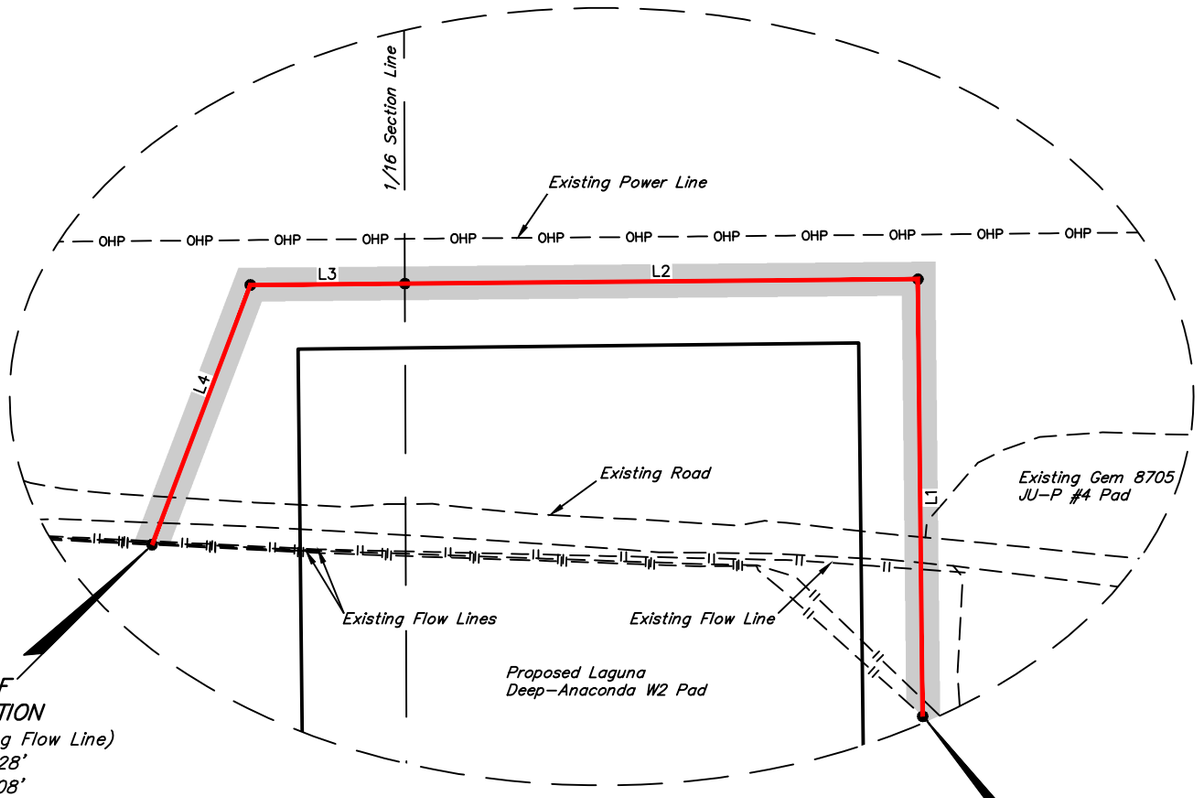
LAGUNA DEEP-ANACONDA W2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	1" = 1000'
FILE	COT01-26-0062-A1		
FLOW LINE R-O-W			EXHIBIT M

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

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 194 of 317



POINT OF TERMINATION
(At Existing Flow Line)
N: 581358.28'
E: 755173.08'
Lat: 32.596288°
Long: -103.638991°

Detail "A"
No Scale

POINT OF BEGINNING
(At Existing Flow Line)
N: 581205.23'
E: 755860.38'
Lat: 32.595855°
Long: -103.636762°

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
06-16-26

Sheet 2 of 2

REV: 01 06-16-26 H.S.S. (FLOW LINE CHANGES)

NOTES:
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

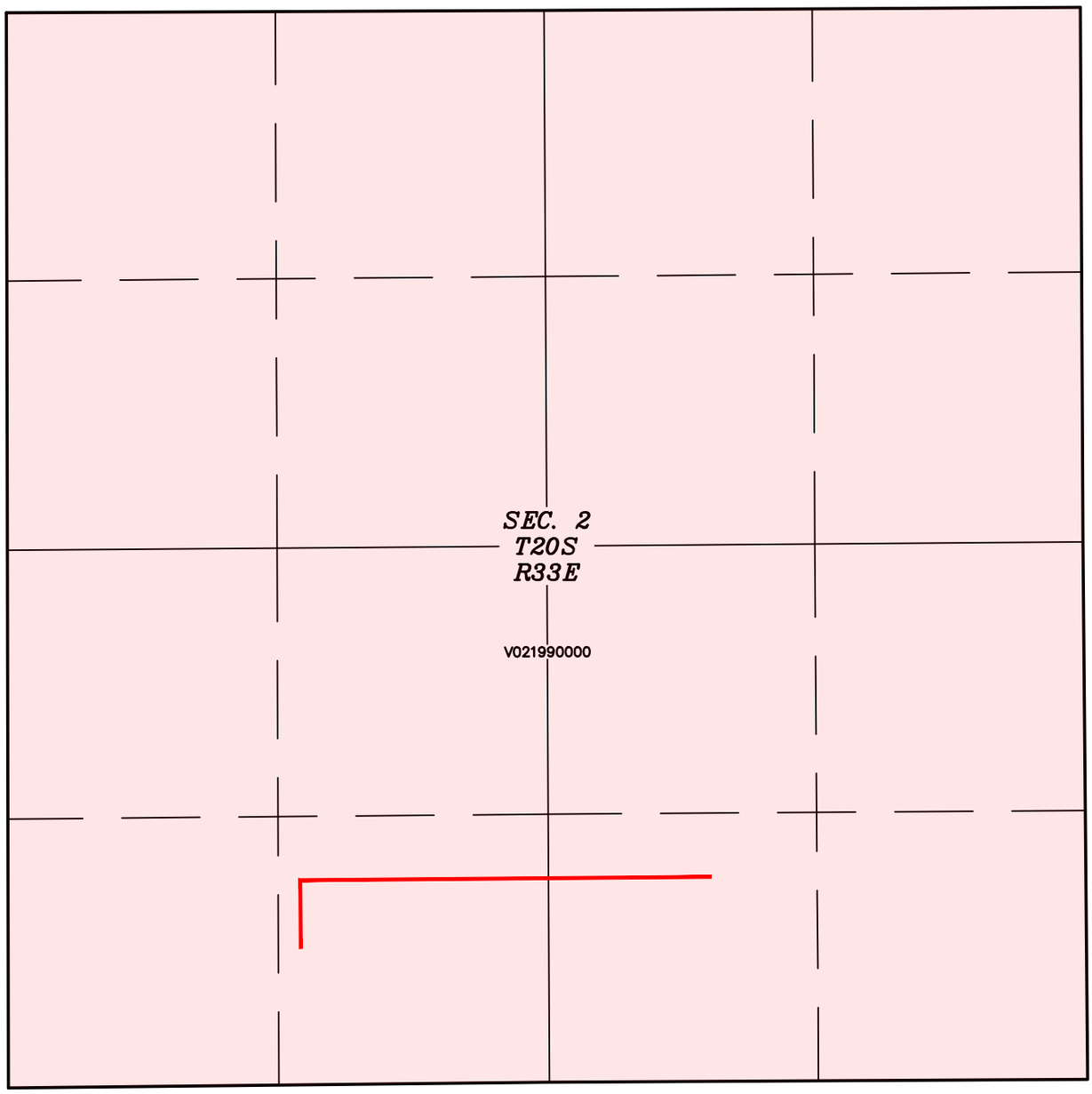
LAGUNA DEEP-ANACONDA W2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	N/A
FILE	COT01-26-0067-A2		
FLOW LINE R-O-W			EXHIBIT M

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

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 195 of 317



LEGEND:

- PROPOSED BULK LINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

NOTES:

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

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

N

COTERRA ENERGY OPERATING CO.

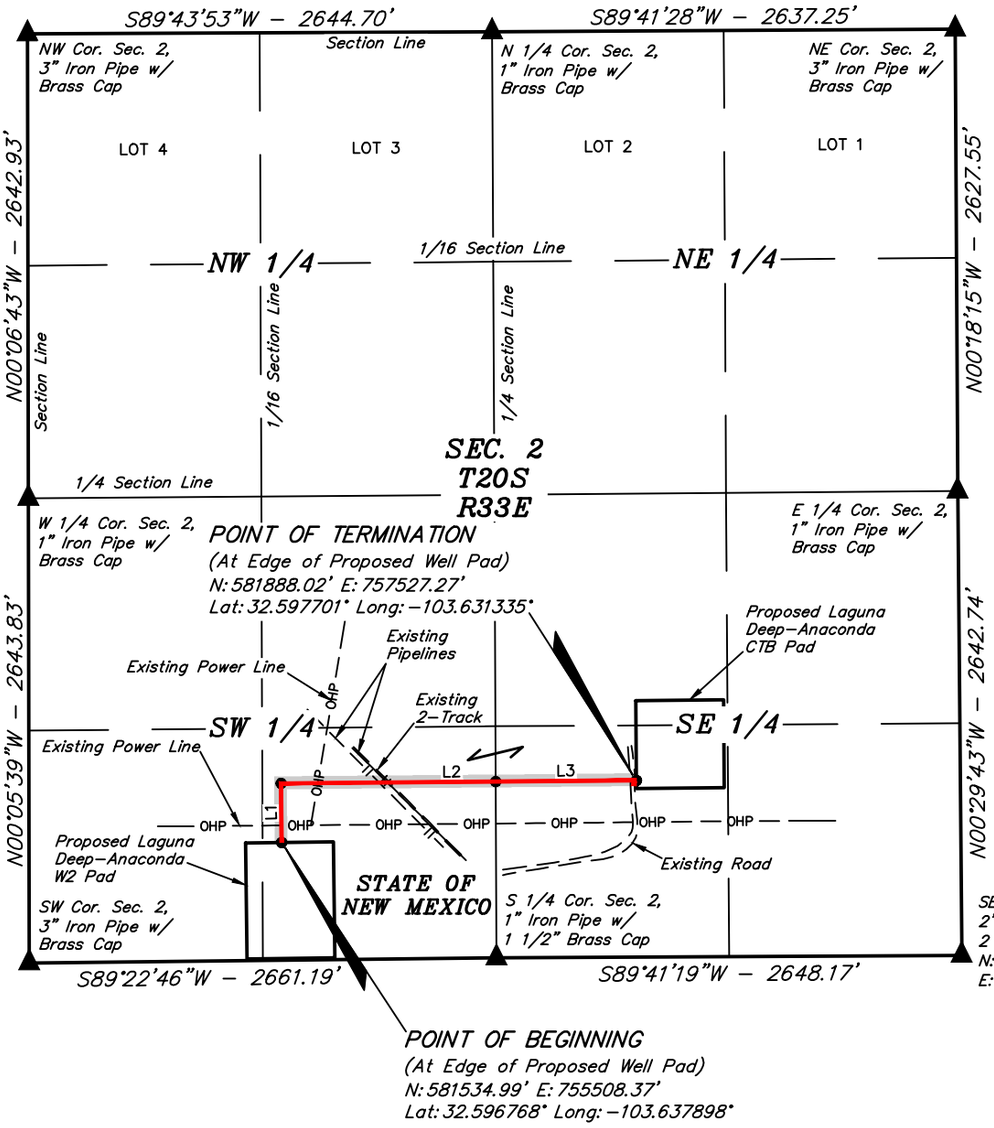
LAGUNA DEEP-ANACONDA W2 PAD
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	N/A

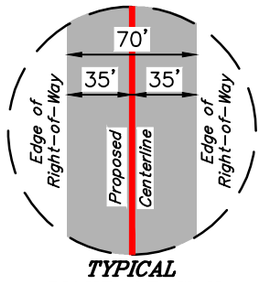
OVERALL BULK PIPELINE

Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Page 196 of 317



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N00°37'14"W	336.01'
L2	N89°31'02"E	1221.85'
L3	N89°31'02"E	800.76'



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.

BEGINNING AT A POINT IN THE SE 1/4 SW 1/4 OF SECTION 2, T20S, R33E, N.M.P.M., WITH THE NORTHING: 581534.99' AND THE EASTING: 755508.37'; THENCE N00°37'14"W 336.01'; THENCE N89°31'02"E 1221.85' TO A POINT ON THE EAST LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 2; THENCE CONTINUING N89°31'02"E 800.76' TO A POINT IN THE NW 1/4 SE 1/4 OF SAID SECTION 2 AND THE POINT OF TERMINATION, WITH THE NORTHING: 581888.02' AND THE EASTING: 757527.27'. THE SIDELINES ARE EXTENDED OR SHORTENED TO INTERSECT THE LINES ON WHICH THE POINT OF BEGINNING AND THE POINT OF TERMINATION LIE, AS SHOWN AND DESCRIBED ON THIS EXHIBIT. CONTAINS 3.790 ACRES MORE OR LESS. ALL BEARINGS, DISTANCES, COORDINATES, AND AREAS LISTED ARE GRID AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83, (U.S. SURVEY FOOT).

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 2 (SE 1/4 SW 1/4)	1557.86	94.42	2.503
SEC. 2 (SW 1/4 SE 1/4)	800.76	48.53	1.287
TOTAL	2358.62	142.95	3.790

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
Frank Buchelli
06–03–26
PROFESSIONAL SURVEYOR

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:
- All Bearings, Distances, Coordinates, and Areas listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

N

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-07-26	SCALE
DRAWN BY	L.K.	06-03-26	1" = 1000'
FILE	COT01-26-0062-A		
BULK PIPELINE R-O-W			EXHIBIT M

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

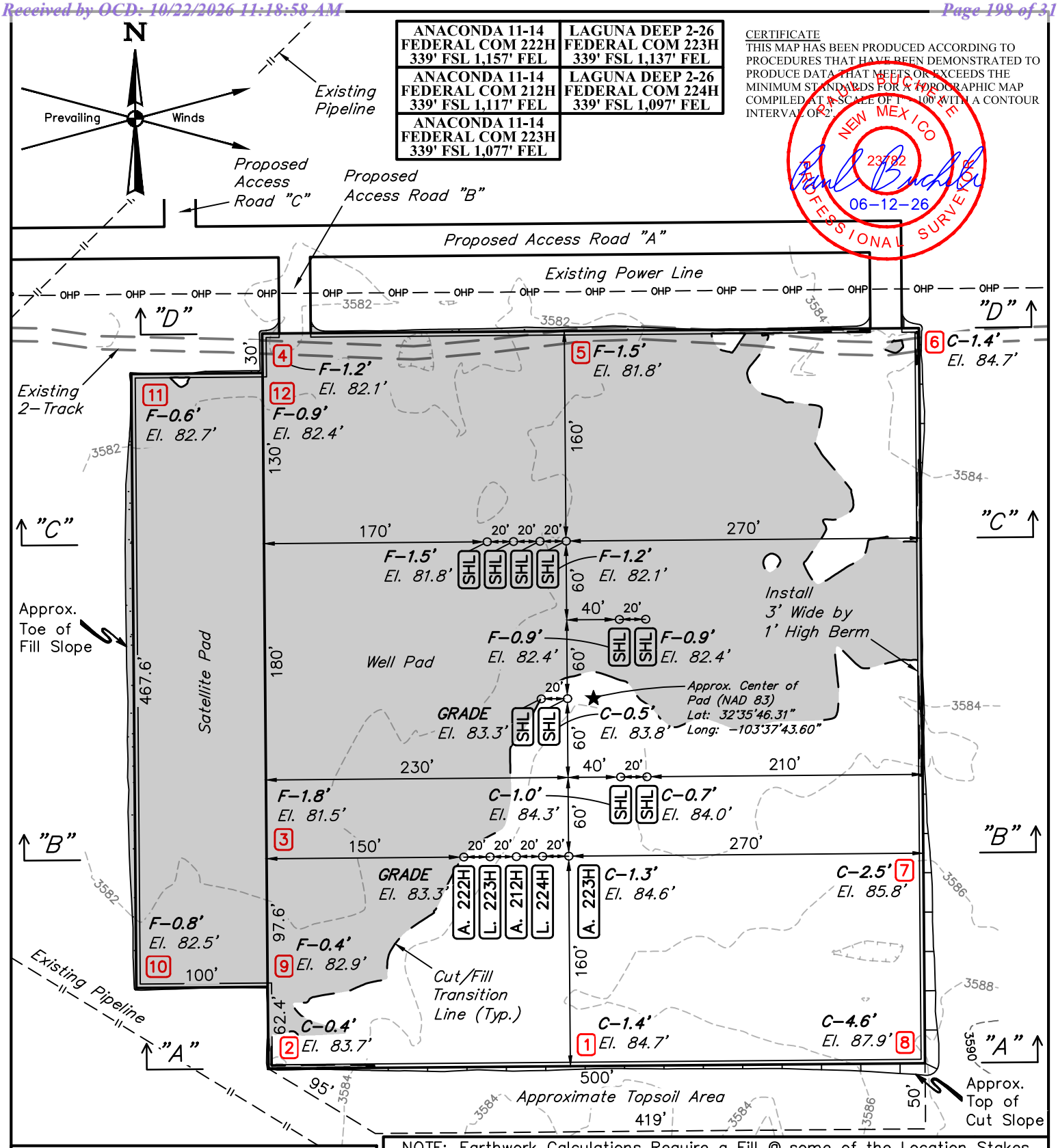
Received by OCD: 10/22/2026 11:18:58 AM
Released to Imaging: 10/29/2026 11:09:48 AM

Hamon to Laguna Deep/Anaconda Water Route

Start Hamon Pond, Section 7 (32.586251, -103.606710)

End Laguna Deep/Anaconda CTB Section 2 (32.596184, -103.628658)





ANACONDA 11-14 FEDERAL COM 222H 339' FSL 1,157' FEL	LAGUNA DEEP 2-26 FEDERAL COM 223H 339' FSL 1,137' FEL
ANACONDA 11-14 FEDERAL COM 212H 339' FSL 1,117' FEL	LAGUNA DEEP 2-26 FEDERAL COM 224H 339' FSL 1,097' FEL
ANACONDA 11-14 FEDERAL COM 223H 339' FSL 1,077' FEL	

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" = 100' WITH A CONTOUR INTERVAL OF 2'.

STATE OF NEW MEXICO 23782 Paul Buchanan 06-12-26 PROFESSIONAL SURVEYOR

REV: 1 06-12-26 D.M.C. (UPDATE GRADING)

FINISHED GRADE ELEVATION = **3,583.3'**

NOTE: Earthwork Calculations Require a Fill @ some of the 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.

NOTES:

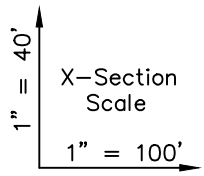
- Contours shown at 2' intervals.
- Cut/Fill Slopes 2:1 (Typ. except where noted).
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- All Bearings, Distances, Coordinates, Areas, and Volumes listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

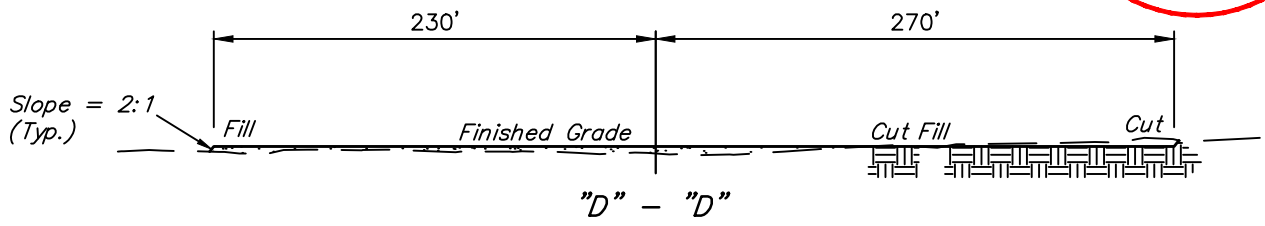
LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	SCALE
DRAWN BY	N.R.	05-22-26	1" = 100'
LOCATION LAYOUT			EXHIBIT J

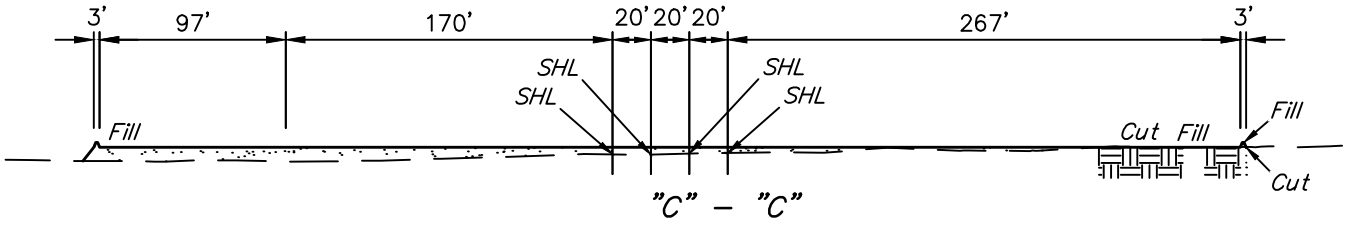
UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



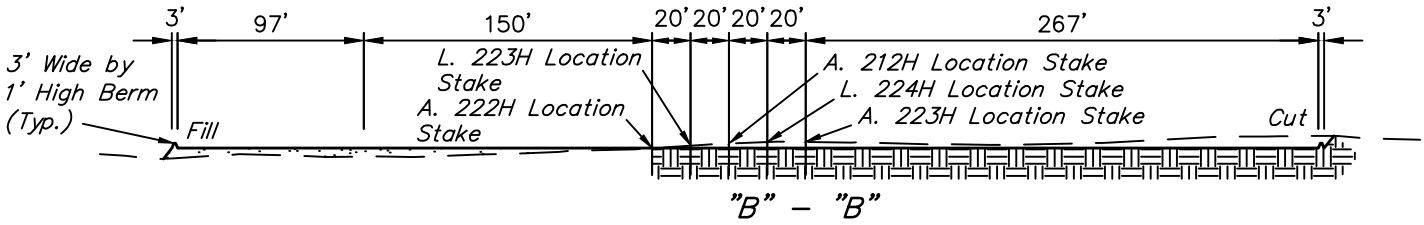




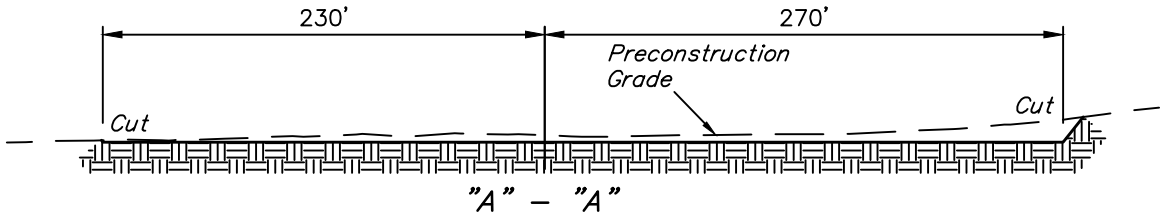
"D" – "D"



"C" – "C"



"B" – "B"



"A" – "A"

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	4,120 Cu. Yds.
REMAINING LOCATION	8,430 Cu. Yds.
TOTAL CUT	**12,550 Cu. Yds.**
FILL	**8,430 Cu. Yds.**
EXCESS MATERIAL	4,120 Cu. Yds.
TOPSOIL	4,120 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA	NA	±8.224
30' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±1,082.13'	±0.745
30' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±70.00'	±0.048
30' WIDE ACCESS ROAD "C" R-O-W DISTURBANCE	±152.77'	±0.105
70' WIDE BULK LINE R-O-W DISTURBANCE	±409.87'	±0.659
TOTAL SURFACE USE AREA		**±9.781**

LEGEND:
A. = Anaconda
L. = Laguna Deep

REV: 1 06-12-26 D.M.C. (UPDATE GRADING, EARTHWORK & SUA)

NOTES:

- Fill quantity includes 5% for compaction.
- Cut/Fill slopes 2:1 (Typ. except Berm).
- All Bearings, Distances, Coordinates, Areas, and Volumes listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

UINTAH ENGINEERING & LAND SURVEYING

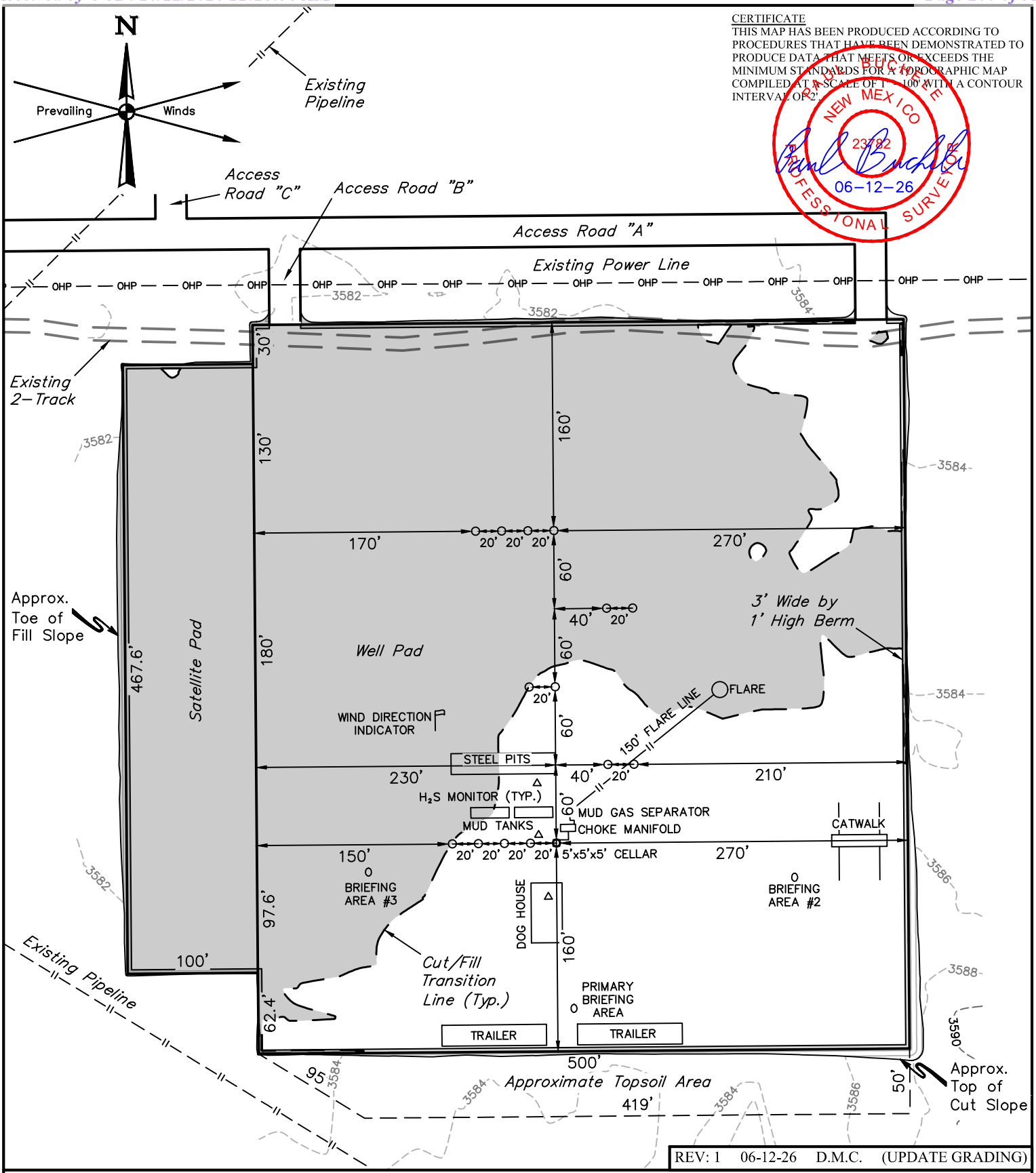
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	**SCALE**
DRAWN BY	N.R.	05-22-26	AS SHOWN

TYPICAL CROSS SECTIONS **EXHIBIT J**



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 100' WITH A CONTOUR INTERVAL OF 2'.

PAUL BUCHANAN NEW MEXICO 23782 PROFESSIONAL SURVEYOR 06-12-26

REV: 1 06-12-26 D.M.C. (UPDATE GRADING)

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.

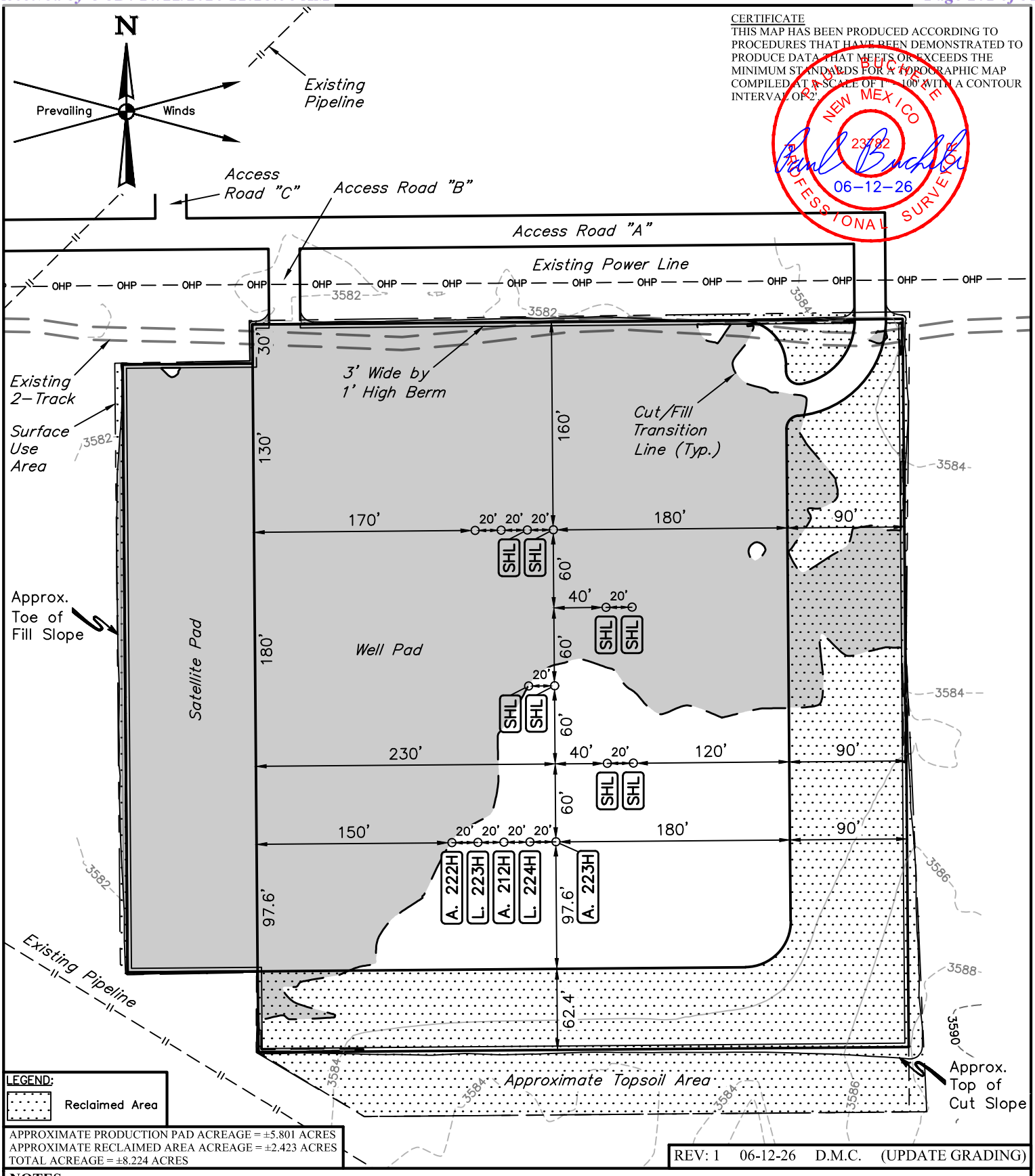
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	SCALE
DRAWN BY	N.R.	05-22-26	1" = 100'

TYPICAL RIG LAYOUT **EXHIBIT K**

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



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 100' WITH A CONTOUR INTERVAL OF 2'.

BUCKNER NEW MEXICO 23782 PROFESSIONAL SURVEYOR 06-12-26

LEGEND:
Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±5.801 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±2.423 ACRES
TOTAL ACREAGE = ±8.224 ACRES

REV: 1 06-12-26 D.M.C. (UPDATE GRADING)

NOTES:

- Contours shown at 2' intervals.
- All Bearings, Distances, Coordinates, Areas, and Volumes listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

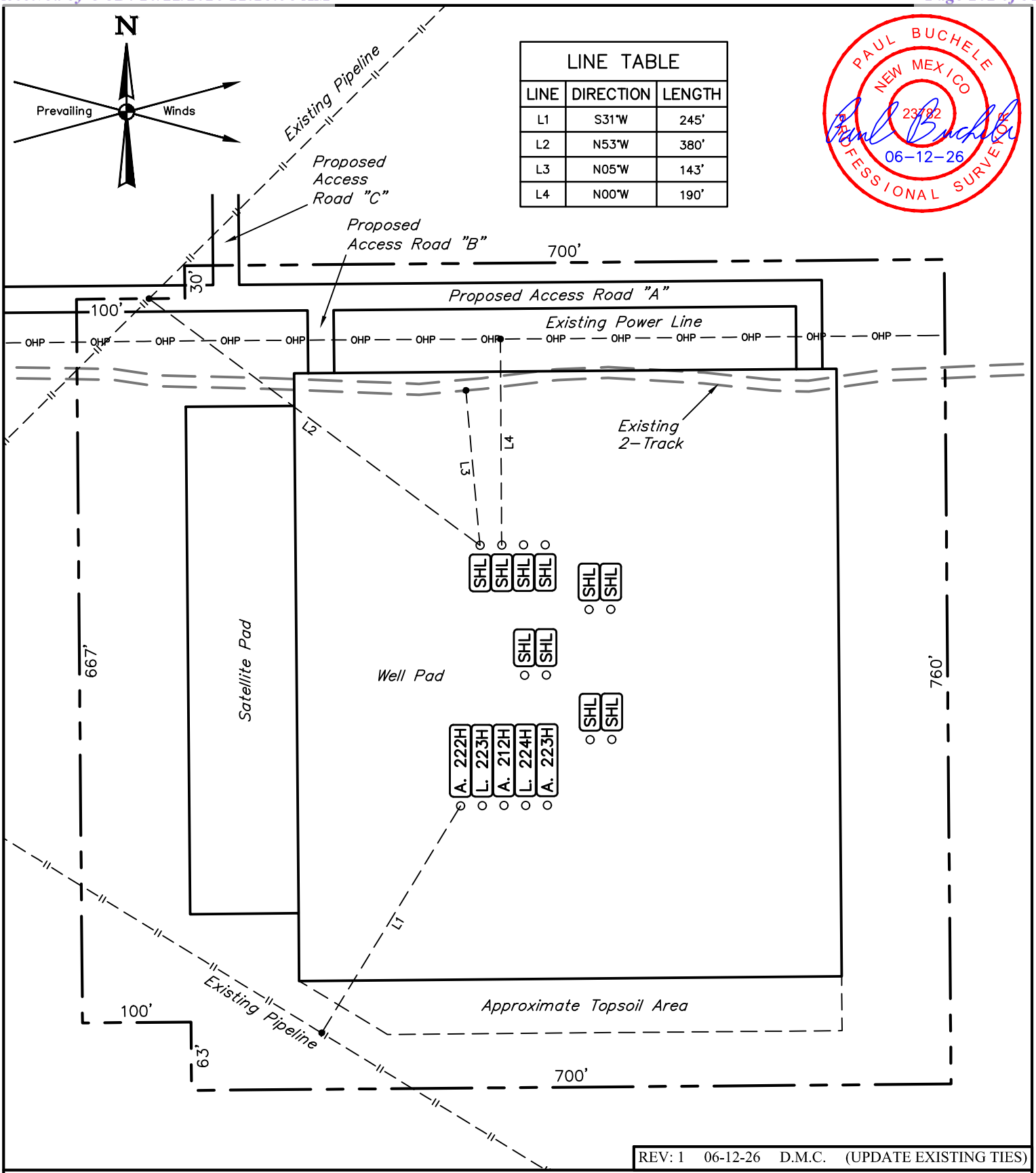
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	SCALE
DRAWN BY	N.R.	05-22-26	1" = 100'

RECLAMATION DIAGRAM **EXHIBIT P**

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



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S31°W	245'
L2	N53°W	380'
L3	N05°W	143'
L4	N00°W	190'

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 06-12-26

REV: 1 06-12-26 D.M.C. (UPDATE EXISTING TIES)

NOTES:

- All Bearings, Distances, Coordinates, Areas, and Volumes listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

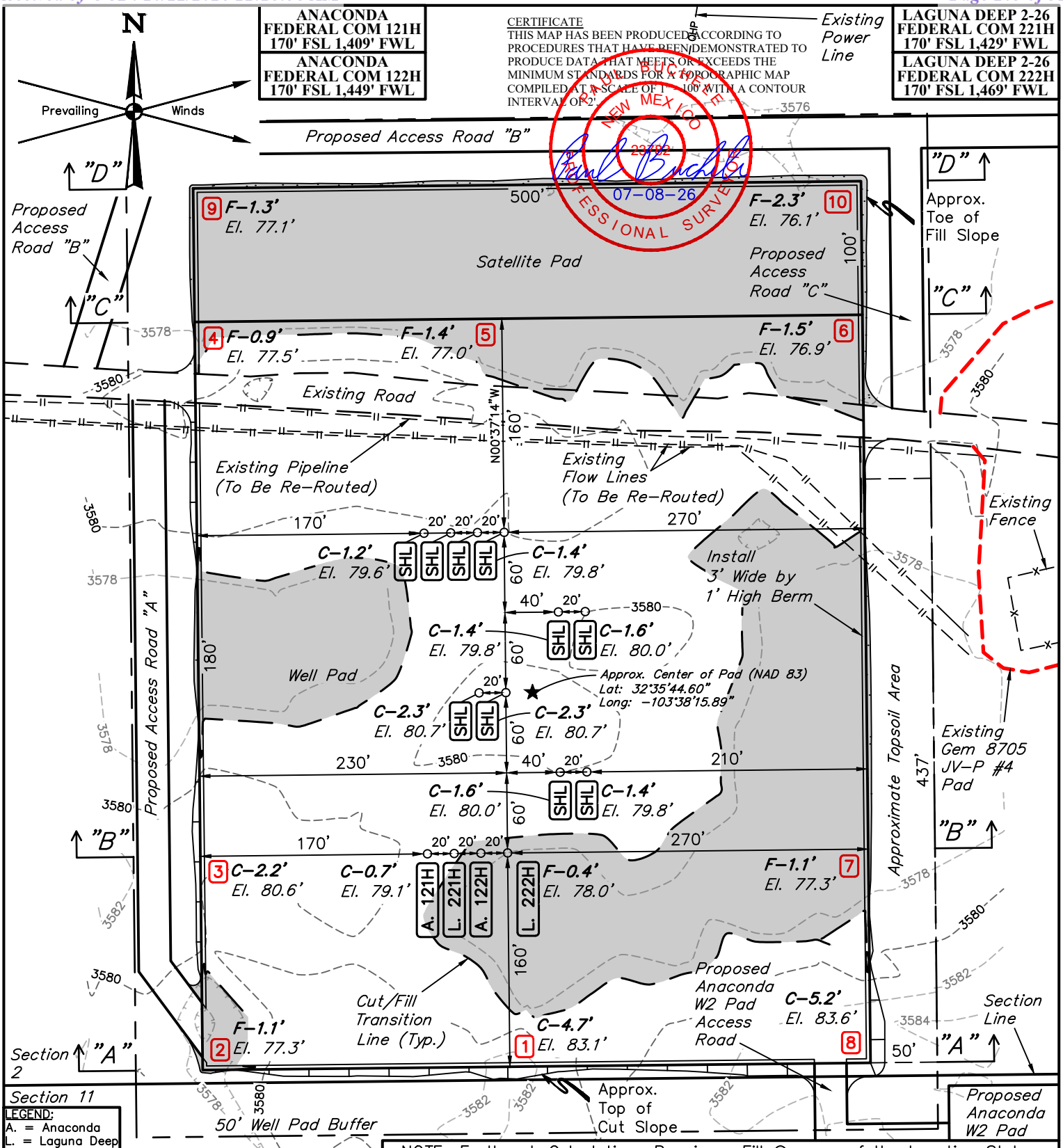
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

UINTAH ENGINEERING & LAND SURVEYING

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

SURVEYED BY	R.C., G.M.	05-12-26	SCALE
DRAWN BY	N.R.	05-22-26	1" = 120'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT L



LEGEND:
A. = Anaconda
L. = Laguna Deep

REV: 2 07-08-26 N.R. (WELL NAME CHANGES)

FINISHED GRADE ELEVATION = **3,578.4'**

NOTE: Earthwork Calculations Require a Fill @ some of the 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.

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.
- All Bearings, Distances, Coordinates, Areas, and Volumes listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

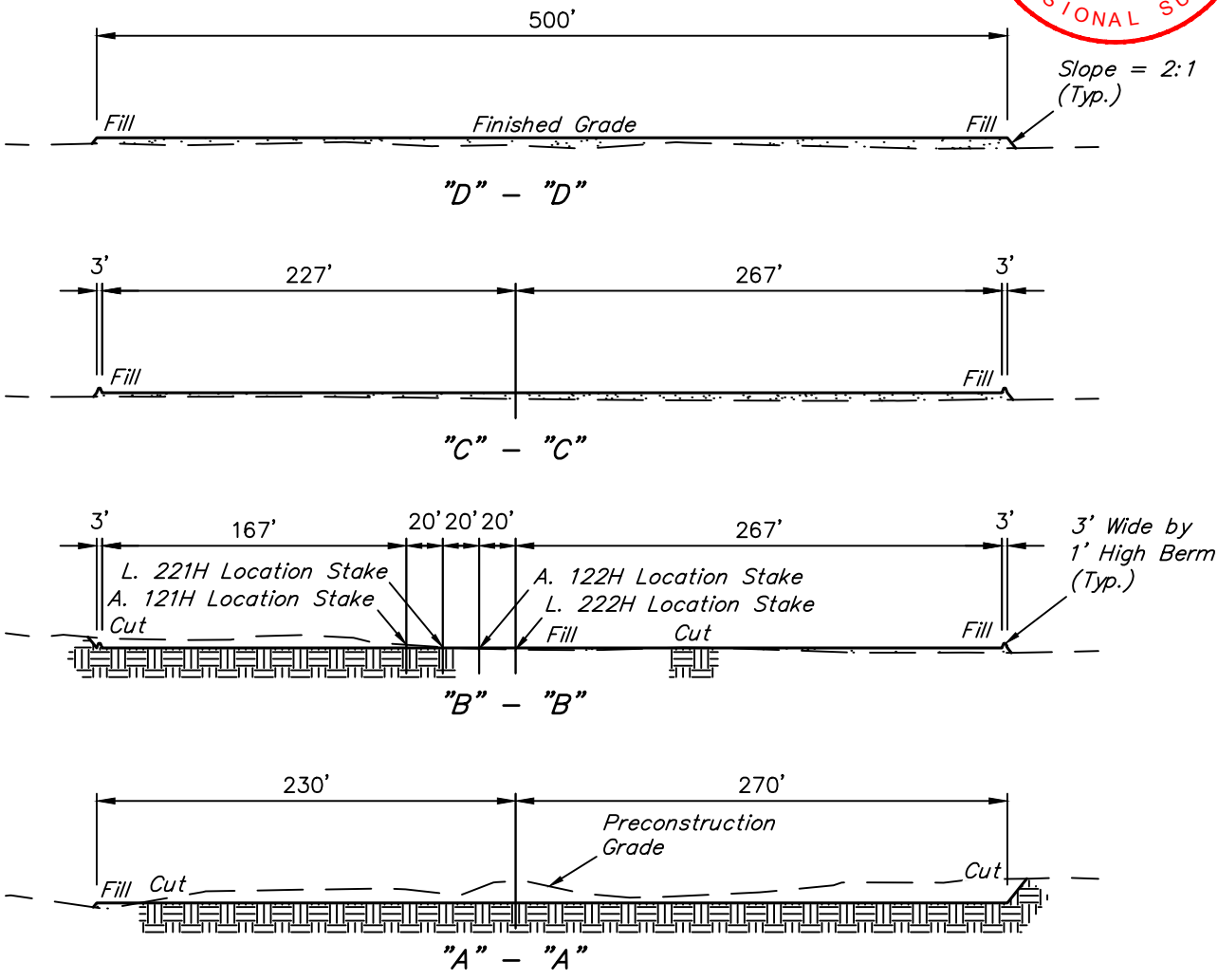
LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	SCALE
DRAWN BY	N.R.	05-20-26	1" = 100'
LOCATION LAYOUT			EXHIBIT J

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

1" = 40'
X-Section Scale
1" = 100'

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 07-08-26



APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	4,180 Cu. Yds.
REMAINING LOCATION	8,090 Cu. Yds.
TOTAL CUT	**12,270 Cu. Yds.**
FILL	**8,090 Cu. Yds.**
EXCESS MATERIAL	4,180 Cu. Yds.
TOPSOIL	4,180 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA	NA	±8.345
30' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±482.92'	±0.333
30' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±1,490.48'	±1.026
30' WIDE ACCESS ROAD "C" R-O-W DISTURBANCE	±207.95'	±0.143
30' WIDE FLOW LINE R-O-W DISTURBANCE	±1,100.47'	±0.758
70' WIDE BULK LINE R-O-W DISTURBANCE	±2,358.62'	±3.790
TOTAL SURFACE USE AREA		**±14.395**

LEGEND:
A. = Anaconda
L. = Laguna Deep

REV: 2 07-08-26 N.R. (WELL NAME CHANGES)

NOTES:
- Fill quantity includes 5% for compaction.
- Cut/Fill slopes 2:1 (Typ. except where noted).
- All Bearings, Distances, Coordinates, Areas, and Volumes listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

UINTAH ENGINEERING & LAND SURVEYING

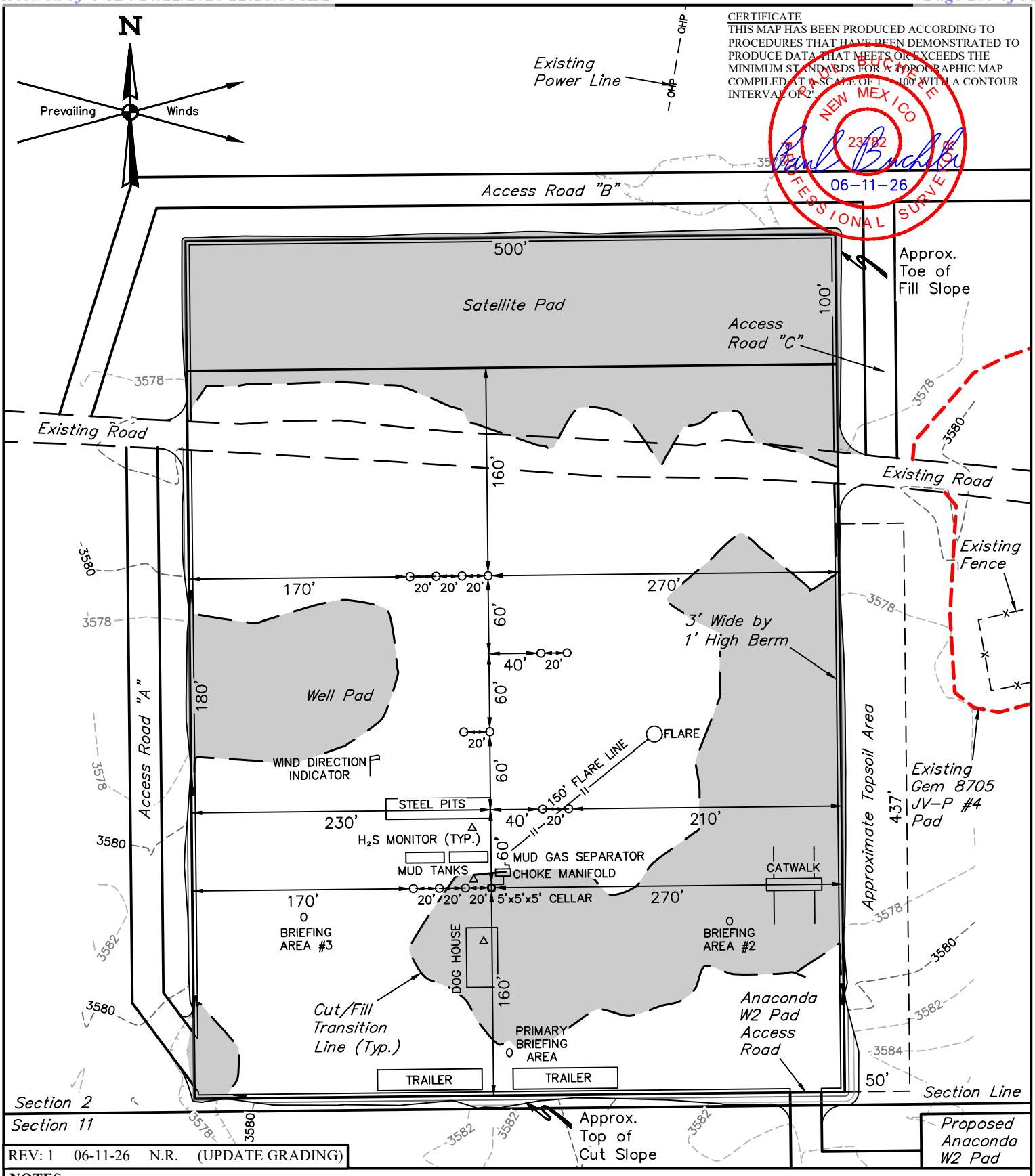
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	**SCALE**
DRAWN BY	N.R.	05-20-26	AS SHOWN

TYPICAL CROSS SECTIONS **EXHIBIT J**



REV: 1 06-11-26 N.R. (UPDATE GRADING)

NOTES:

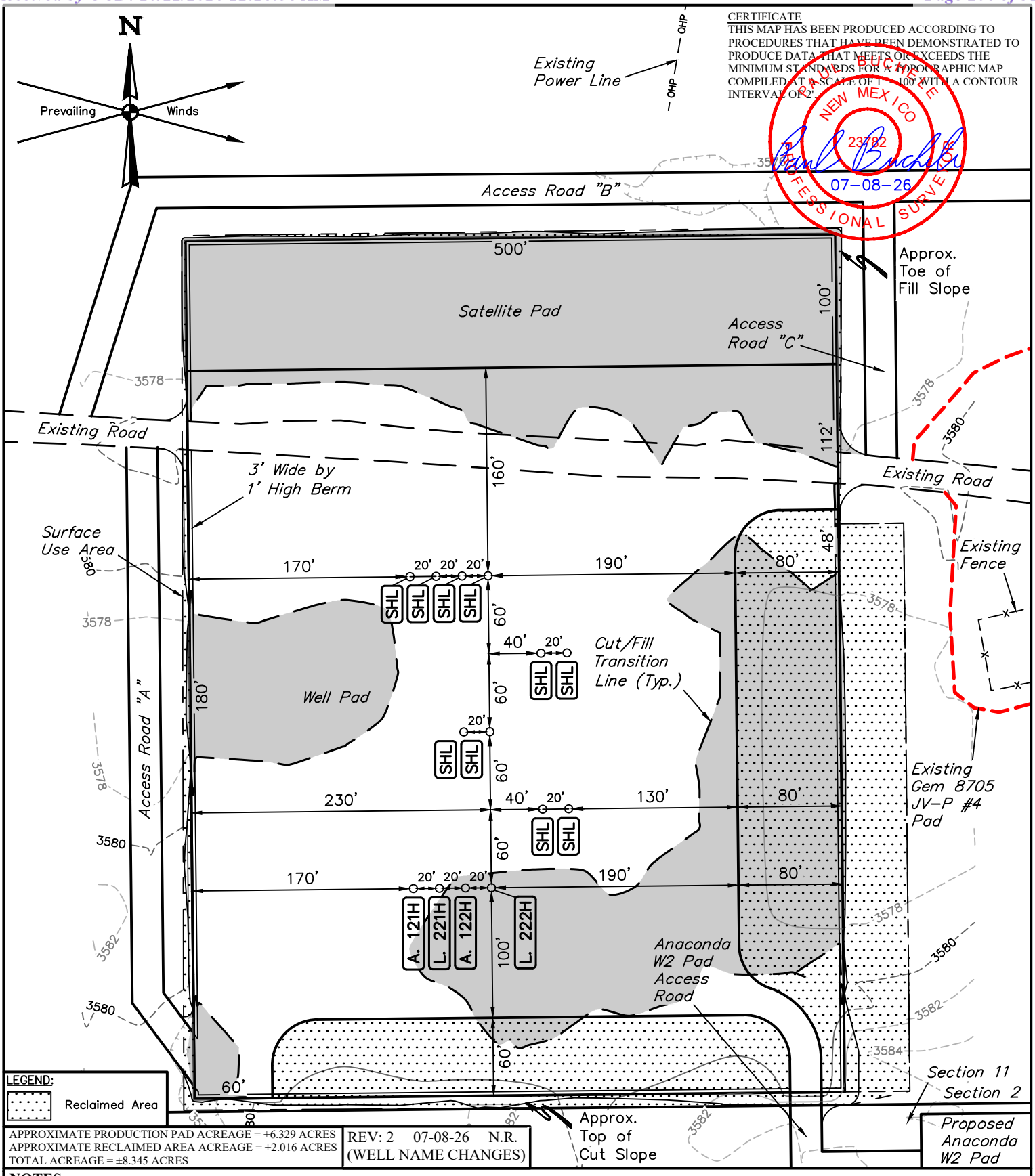
- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	SCALE
DRAWN BY	N.R.	05-20-26	1" = 100'
TYPICAL RIG LAYOUT			EXHIBIT K

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



LEGEND:

Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±6.329 ACRES APPROXIMATE RECLAIMED AREA ACREAGE = ±2.016 ACRES TOTAL ACREAGE = ±8.345 ACRES	REV: 2 07-08-26 N.R. (WELL NAME CHANGES)

NOTES:

- Contours shown at 2' intervals.
- All Bearings, Distances, Coordinates, Areas, and Volumes listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

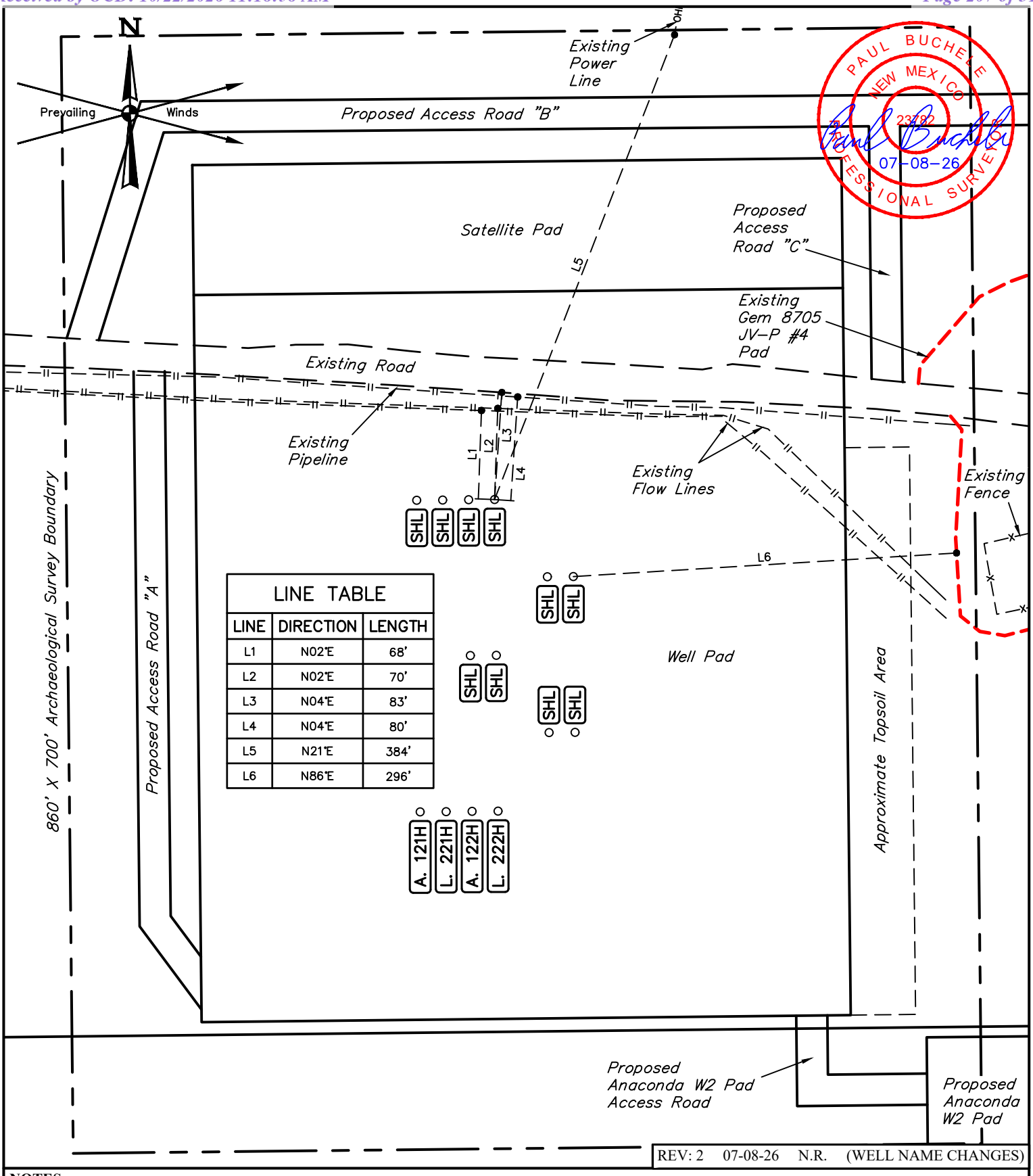
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	SCALE
DRAWN BY	N.R.	05-20-26	1" = 100'

RECLAMATION DIAGRAM **EXHIBIT P**

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



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N02°E	68'
L2	N02°E	70'
L3	N04°E	83'
L4	N04°E	80'
L5	N21°E	384'
L6	N86°E	296'

PAUL BUCHELE
NEW MEXICO
23782
07-08-26
PROFESSIONAL SURVEYOR

REV: 2 07-08-26 N.R. (WELL NAME CHANGES)

NOTES:

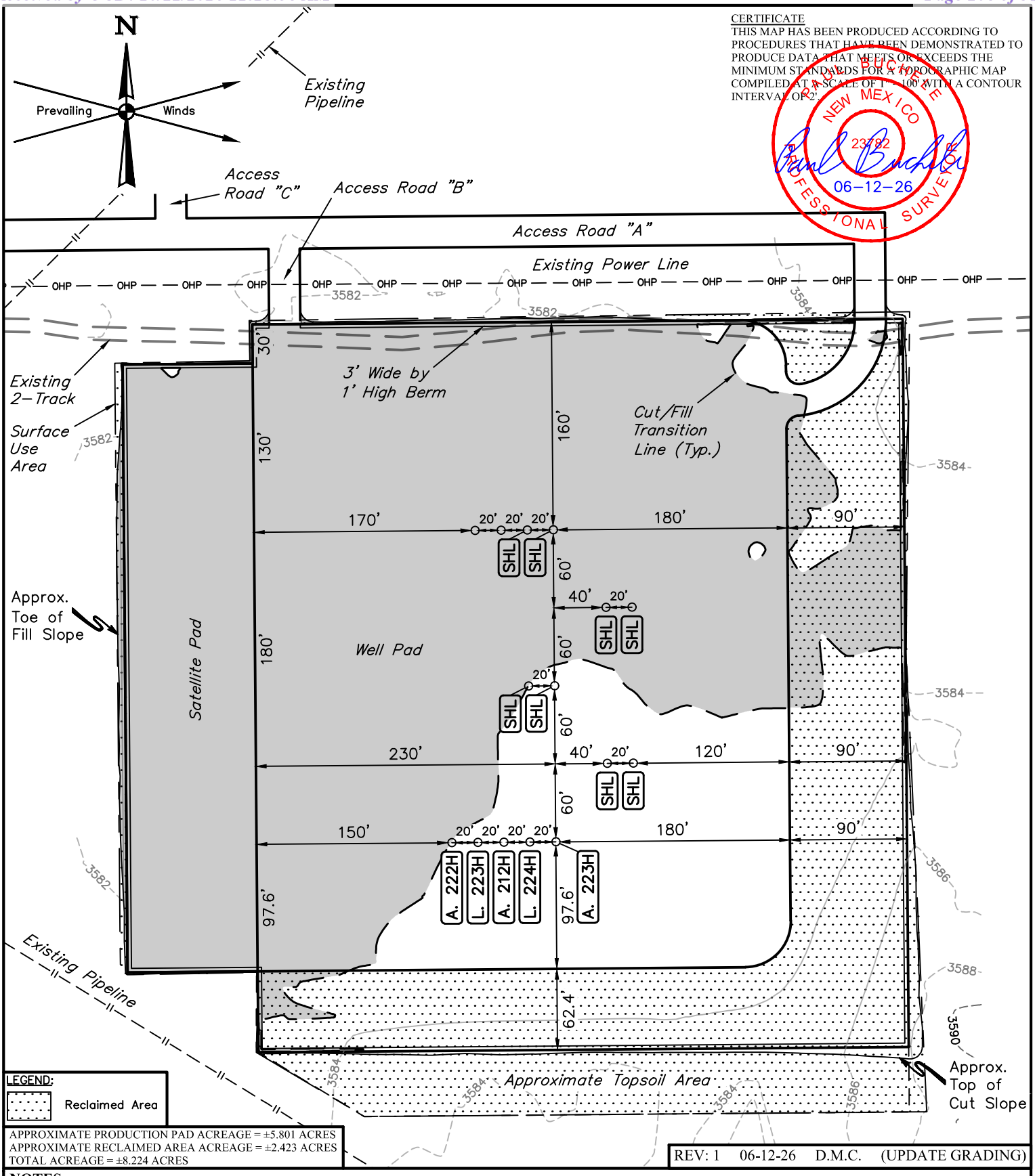
- All Bearings, Distances, Coordinates, Areas, and Volumes listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	SCALE
DRAWN BY	N.R.	05-20-26	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT L

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



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" = 100' WITH A CONTOUR INTERVAL OF 2'.

PAUL C. BUCHANAN
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
06-12-26

LEGEND:
Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±5.801 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±2.423 ACRES
TOTAL ACREAGE = ±8.224 ACRES

REV: 1 06-12-26 D.M.C. (UPDATE GRADING)

NOTES:

- Contours shown at 2' intervals.
- All Bearings, Distances, Coordinates, Areas, and Volumes listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

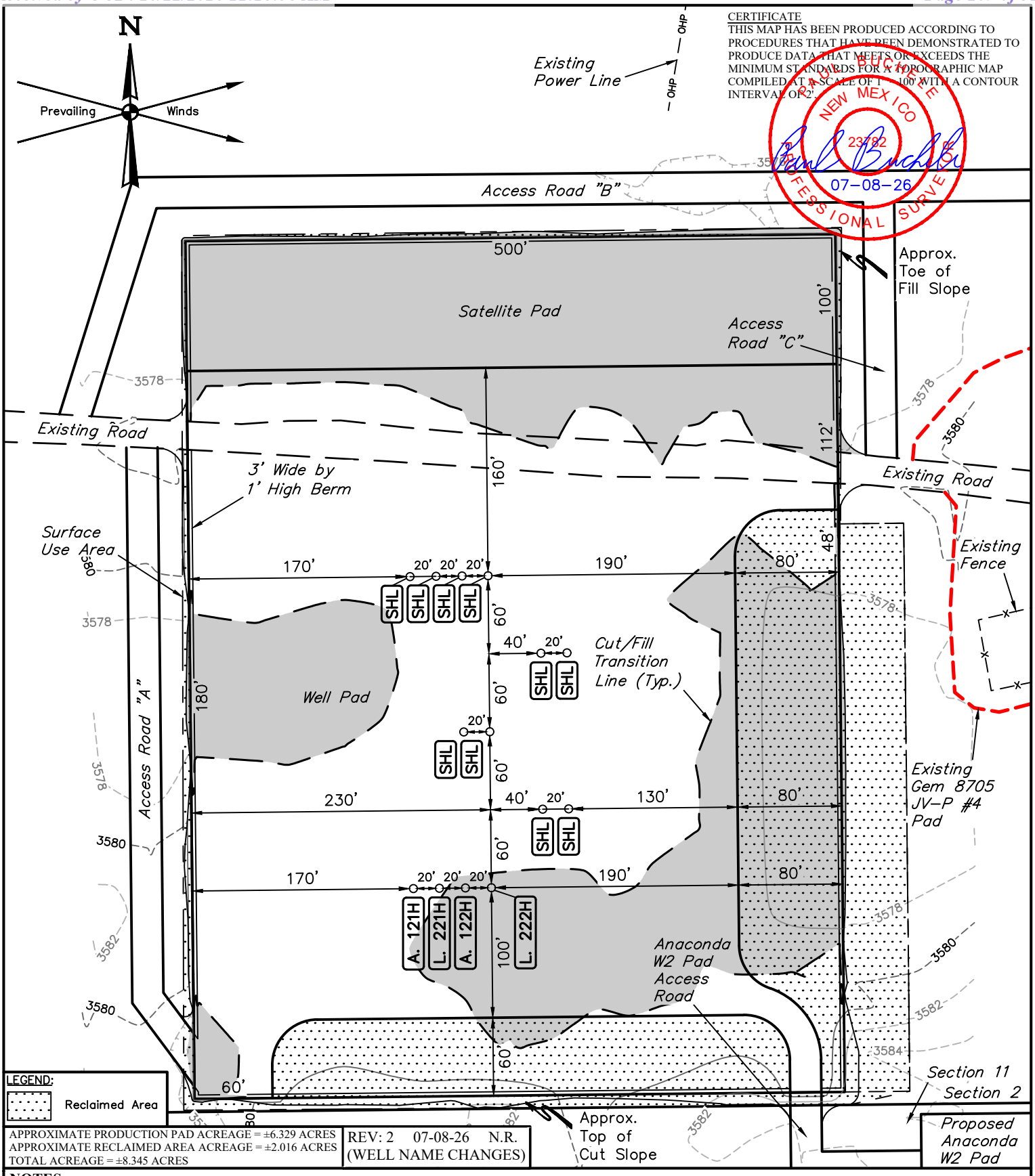
COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA E2 PAD
459' FSL 1,057' FEL (APPROX. CENTER OF PAD)
SE 1/4 SE 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., G.M.	05-12-26	SCALE
DRAWN BY	N.R.	05-22-26	1" = 100'

RECLAMATION DIAGRAM **EXHIBIT P**

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



LEGEND:
Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±6.329 ACRES APPROXIMATE RECLAIMED AREA ACREAGE = ±2.016 ACRES TOTAL ACREAGE = ±8.345 ACRES	REV: 2 07-08-26 N.R. (WELL NAME CHANGES)

NOTES:

- Contours shown at 2' intervals.
- All Bearings, Distances, Coordinates, Areas, and Volumes listed are GRID and are based on the New Mexico State Plane Coordinate System, East Zone, NAD83, (U.S. Survey Foot).

COTERRA ENERGY OPERATING CO.

LAGUNA DEEP-ANACONDA W2 PAD
290' FSL 1,488' FWL (APPROX. CENTER OF PAD)
S 1/2 SW 1/4, SECTION 2, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	05-06-26	SCALE
DRAWN BY	N.R.	05-20-26	1" = 100'
RECLAMATION DIAGRAM			EXHIBIT P

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

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Pyote

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
KM—Kermit soils and Dune land, 0 to 12 percent slopes						
Kermit	R070BC022NM: Sandhills	1,350	—	600	Dropseed	15
					Miscellaneous perennial grasses	15
					Giant dropseed	10
					Havard's panicgrass	10
					Sand bluestem	10
					Miscellaneous perennial forbs	10
					Yucca	5
					Plains bristlegrass	5
					Havard's oak	5
					Sand paspalum	5
					Common sunflower	5
					Miscellaneous shrubs	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Landscape: Uplands
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PU—Pyote and Maljamar fine sands						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial forbs	10
					Giant dropseed	5
					Mesa dropseed	5
					Sand dropseed	5
					Plains bristlegrass	5
					Bush muhly	5
					Arizona cottontop	5
					Hooded windmill grass	5
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
Maljamar	R070BD003NM: Loamy Sand	1,800	—	650	Miscellaneous perennial forbs	15
					Black grama	15
					Miscellaneous perennial grasses	10
					Little bluestem	10
					Plains bristlegrass	10
					Dropseed	10
					Miscellaneous shrubs	5
					Sand sagebrush	5
					Cane bluestem	5
					Fall witchgrass	5
					Bush muhly	5
					Havard's oak	5

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PY—Pyote soils and Dune land

Map Unit Setting

National map unit symbol: dmqr
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Sandhills
Landform: Depressions
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Maljamar, fine sand

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PY—Pyote soils and Dune land						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Miscellaneous perennial forbs	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
					Hooded windmill grass	5
					Arizona cottontop	5
					Bush muhly	5
					Plains bristlegrass	5
					Sand dropseed	5
					Mesa dropseed	5
					Giant dropseed	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw3c
Landscape: Plateaus
Elevation: 3,280 to 4,460 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 59 to 64 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 70 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Sandy eolian deposits

Typical profile

A - 0 to 12 inches: loamy fine sand
Bw - 12 to 17 inches: loamy sand
Bkkm - 17 to 39 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 12 to 20 inches to petrocalcic
Drainage class: Excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R077DY048TX - Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 15 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Berino

Percent of map unit: 10 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 5 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
TF—Tonuco loamy fine sand, 0 to 3 percent slopes						
Tonuco	R077DY048TX: Shallow 12-17" PZ	1,300	900	600	Sideoats grama	25
					Black grama	15
					Little bluestem	15
					Miscellaneous perennial forbs	10
					Miscellaneous perennial grasses	5
					Miscellaneous shrubs	5
					Blue grama	5
					Hairy grama	5
					Buffalograss	5
					Sand dropseed	5
					New mexico feathergrass	3
					Yucca	2

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Pyote

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
KM—Kermit soils and Dune land, 0 to 12 percent slopes						
Kermit	R070BC022NM: Sandhills	1,350	—	600	Dropseed	15
					Miscellaneous perennial grasses	15
					Giant dropseed	10
					Havard's panicgrass	10
					Sand bluestem	10
					Miscellaneous perennial forbs	10
					Yucca	5
					Plains bristlegrass	5
					Havard's oak	5
					Sand paspalum	5
					Common sunflower	5
					Miscellaneous shrubs	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Landscape: Uplands
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PU—Pyote and Maljamar fine sands						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial forbs	10
					Giant dropseed	5
					Mesa dropseed	5
					Sand dropseed	5
					Plains bristlegrass	5
					Bush muhly	5
					Arizona cottontop	5
					Hooded windmill grass	5
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
Maljamar	R070BD003NM: Loamy Sand	1,800	—	650	Miscellaneous perennial forbs	15
					Black grama	15
					Miscellaneous perennial grasses	10
					Little bluestem	10
					Plains bristlegrass	10
					Dropseed	10
					Miscellaneous shrubs	5
					Sand sagebrush	5
					Cane bluestem	5
					Fall witchgrass	5
					Bush muhly	5
					Havard's oak	5

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PY—Pyote soils and Dune land

Map Unit Setting

National map unit symbol: dmqr
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Sandhills
Landform: Depressions
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Maljamar, fine sand

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PY—Pyote soils and Dune land						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Miscellaneous perennial forbs	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
					Hooded windmill grass	5
					Arizona cottontop	5
					Bush muhly	5
					Plains bristlegrass	5
					Sand dropseed	5
					Mesa dropseed	5
					Giant dropseed	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw3c
Landscape: Plateaus
Elevation: 3,280 to 4,460 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 59 to 64 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 70 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Sandy eolian deposits

Typical profile

A - 0 to 12 inches: loamy fine sand
Bw - 12 to 17 inches: loamy sand
Bkkm - 17 to 39 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 12 to 20 inches to petrocalcic
Drainage class: Excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R077DY048TX - Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 15 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Berino

Percent of map unit: 10 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 5 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
TF—Tonuco loamy fine sand, 0 to 3 percent slopes						
Tonuco	R077DY048TX: Shallow 12-17" PZ	1,300	900	600	Sideoats grama	25
					Black grama	15
					Little bluestem	15
					Miscellaneous perennial forbs	10
					Miscellaneous perennial grasses	5
					Miscellaneous shrubs	5
					Blue grama	5
					Hairy grama	5
					Buffalograss	5
					Sand dropseed	5
					New mexico feathergrass	3
					Yucca	2

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Pyote

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
KM—Kermit soils and Dune land, 0 to 12 percent slopes						
Kermit	R070BC022NM: Sandhills	1,350	—	600	Dropseed	15
					Miscellaneous perennial grasses	15
					Giant dropseed	10
					Havard's panicgrass	10
					Sand bluestem	10
					Miscellaneous perennial forbs	10
					Yucca	5
					Plains bristlegrass	5
					Havard's oak	5
					Sand paspalum	5
					Common sunflower	5
					Miscellaneous shrubs	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Landscape: Uplands
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PU—Pyote and Maljamar fine sands						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial forbs	10
					Giant dropseed	5
					Mesa dropseed	5
					Sand dropseed	5
					Plains bristlegrass	5
					Bush muhly	5
					Arizona cottontop	5
					Hooded windmill grass	5
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
Maljamar	R070BD003NM: Loamy Sand	1,800	—	650	Miscellaneous perennial forbs	15
					Black grama	15
					Miscellaneous perennial grasses	10
					Little bluestem	10
					Plains bristlegrass	10
					Dropseed	10
					Miscellaneous shrubs	5
					Sand sagebrush	5
					Cane bluestem	5
					Fall witchgrass	5
					Bush muhly	5
					Havard's oak	5

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PY—Pyote soils and Dune land

Map Unit Setting

National map unit symbol: dmqr
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Sandhills
Landform: Depressions
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Maljamar, fine sand

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PY—Pyote soils and Dune land						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Miscellaneous perennial forbs	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
					Hooded windmill grass	5
					Arizona cottontop	5
					Bush muhly	5
					Plains bristlegrass	5
					Sand dropseed	5
					Mesa dropseed	5
					Giant dropseed	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw3c
Landscape: Plateaus
Elevation: 3,280 to 4,460 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 59 to 64 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 70 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Sandy eolian deposits

Typical profile

A - 0 to 12 inches: loamy fine sand
Bw - 12 to 17 inches: loamy sand
Bkkm - 17 to 39 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 12 to 20 inches to petrocalcic
Drainage class: Excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R077DY048TX - Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 15 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Berino

Percent of map unit: 10 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 5 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
TF—Tonuco loamy fine sand, 0 to 3 percent slopes						
Tonuco	R077DY048TX: Shallow 12-17" PZ	1,300	900	600	Sideoats grama	25
					Black grama	15
					Little bluestem	15
					Miscellaneous perennial forbs	10
					Miscellaneous perennial grasses	5
					Miscellaneous shrubs	5
					Blue grama	5
					Hairy grama	5
					Buffalograss	5
					Sand dropseed	5
					New mexico feathergrass	3
					Yucca	2

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Pyote

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
KM—Kermit soils and Dune land, 0 to 12 percent slopes						
Kermit	R070BC022NM: Sandhills	1,350	—	600	Dropseed	15
					Miscellaneous perennial grasses	15
					Giant dropseed	10
					Havard's panicgrass	10
					Sand bluestem	10
					Miscellaneous perennial forbs	10
					Yucca	5
					Plains bristlegrass	5
					Havard's oak	5
					Sand paspalum	5
					Common sunflower	5
					Miscellaneous shrubs	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Landscape: Uplands
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PU—Pyote and Maljamar fine sands						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial forbs	10
					Giant dropseed	5
					Mesa dropseed	5
					Sand dropseed	5
					Plains bristlegrass	5
					Bush muhly	5
					Arizona cottontop	5
					Hooded windmill grass	5
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
Maljamar	R070BD003NM: Loamy Sand	1,800	—	650	Miscellaneous perennial forbs	15
					Black grama	15
					Miscellaneous perennial grasses	10
					Little bluestem	10
					Plains bristlegrass	10
					Dropseed	10
					Miscellaneous shrubs	5
					Sand sagebrush	5
					Cane bluestem	5
					Fall witchgrass	5
					Bush muhly	5
					Havard's oak	5

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PY—Pyote soils and Dune land

Map Unit Setting

National map unit symbol: dmqr
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Sandhills
Landform: Depressions
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Maljamar, fine sand

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PY—Pyote soils and Dune land						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Miscellaneous perennial forbs	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
					Hooded windmill grass	5
					Arizona cottontop	5
					Bush muhly	5
					Plains bristlegrass	5
					Sand dropseed	5
					Mesa dropseed	5
					Giant dropseed	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw3c
Landscape: Plateaus
Elevation: 3,280 to 4,460 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 59 to 64 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 70 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Sandy eolian deposits

Typical profile

A - 0 to 12 inches: loamy fine sand
Bw - 12 to 17 inches: loamy sand
Bkkm - 17 to 39 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 12 to 20 inches to petrocalcic
Drainage class: Excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R077DY048TX - Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 15 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Berino

Percent of map unit: 10 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 5 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
TF—Tonuco loamy fine sand, 0 to 3 percent slopes						
Tonuco	R077DY048TX: Shallow 12-17" PZ	1,300	900	600	Sideoats grama	25
					Black grama	15
					Little bluestem	15
					Miscellaneous perennial forbs	10
					Miscellaneous perennial grasses	5
					Miscellaneous shrubs	5
					Blue grama	5
					Hairy grama	5
					Buffalograss	5
					Sand dropseed	5
					New mexico feathergrass	3
					Yucca	2

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Pyote

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
KM—Kermit soils and Dune land, 0 to 12 percent slopes						
Kermit	R070BC022NM: Sandhills	1,350	—	600	Dropseed	15
					Miscellaneous perennial grasses	15
					Giant dropseed	10
					Havard's panicgrass	10
					Sand bluestem	10
					Miscellaneous perennial forbs	10
					Yucca	5
					Plains bristlegrass	5
					Havard's oak	5
					Sand paspalum	5
					Common sunflower	5
					Miscellaneous shrubs	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Landscape: Uplands
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PU—Pyote and Maljamar fine sands						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial forbs	10
					Giant dropseed	5
					Mesa dropseed	5
					Sand dropseed	5
					Plains bristlegrass	5
					Bush muhly	5
					Arizona cottontop	5
					Hooded windmill grass	5
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
Maljamar	R070BD003NM: Loamy Sand	1,800	—	650	Miscellaneous perennial forbs	15
					Black grama	15
					Miscellaneous perennial grasses	10
					Little bluestem	10
					Plains bristlegrass	10
					Dropseed	10
					Miscellaneous shrubs	5
					Sand sagebrush	5
					Cane bluestem	5
					Fall witchgrass	5
					Bush muhly	5
					Havard's oak	5

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PY—Pyote soils and Dune land

Map Unit Setting

National map unit symbol: dmqr
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Sandhills
Landform: Depressions
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Maljamar, fine sand

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PY—Pyote soils and Dune land						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Miscellaneous perennial forbs	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
					Hooded windmill grass	5
					Arizona cottontop	5
					Bush muhly	5
					Plains bristlegrass	5
					Sand dropseed	5
					Mesa dropseed	5
					Giant dropseed	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw3c
Landscape: Plateaus
Elevation: 3,280 to 4,460 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 59 to 64 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 70 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Sandy eolian deposits

Typical profile

A - 0 to 12 inches: loamy fine sand
Bw - 12 to 17 inches: loamy sand
Bkkm - 17 to 39 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 12 to 20 inches to petrocalcic
Drainage class: Excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R077DY048TX - Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 15 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Berino

Percent of map unit: 10 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 5 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
TF—Tonuco loamy fine sand, 0 to 3 percent slopes						
Tonuco	R077DY048TX: Shallow 12-17" PZ	1,300	900	600	Sideoats grama	25
					Black grama	15
					Little bluestem	15
					Miscellaneous perennial forbs	10
					Miscellaneous perennial grasses	5
					Miscellaneous shrubs	5
					Blue grama	5
					Hairy grama	5
					Buffalograss	5
					Sand dropseed	5
					New mexico feathergrass	3
					Yucca	2

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Pyote

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
KM—Kermit soils and Dune land, 0 to 12 percent slopes						
Kermit	R070BC022NM: Sandhills	1,350	—	600	Dropseed	15
					Miscellaneous perennial grasses	15
					Giant dropseed	10
					Havard's panicgrass	10
					Sand bluestem	10
					Miscellaneous perennial forbs	10
					Yucca	5
					Plains bristlegrass	5
					Havard's oak	5
					Sand paspalum	5
					Common sunflower	5
					Miscellaneous shrubs	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Landscape: Uplands
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PU—Pyote and Maljamar fine sands						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial forbs	10
					Giant dropseed	5
					Mesa dropseed	5
					Sand dropseed	5
					Plains bristlegrass	5
					Bush muhly	5
					Arizona cottontop	5
					Hooded windmill grass	5
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
Maljamar	R070BD003NM: Loamy Sand	1,800	—	650	Miscellaneous perennial forbs	15
					Black grama	15
					Miscellaneous perennial grasses	10
					Little bluestem	10
					Plains bristlegrass	10
					Dropseed	10
					Miscellaneous shrubs	5
					Sand sagebrush	5
					Cane bluestem	5
					Fall witchgrass	5
					Bush muhly	5
					Havard's oak	5

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PY—Pyote soils and Dune land

Map Unit Setting

National map unit symbol: dmqr
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Sandhills
Landform: Depressions
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Maljamar, fine sand

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PY—Pyote soils and Dune land						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Miscellaneous perennial forbs	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
					Hooded windmill grass	5
					Arizona cottontop	5
					Bush muhly	5
					Plains bristlegrass	5
					Sand dropseed	5
					Mesa dropseed	5
					Giant dropseed	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw3c
Landscape: Plateaus
Elevation: 3,280 to 4,460 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 59 to 64 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 70 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Sandy eolian deposits

Typical profile

A - 0 to 12 inches: loamy fine sand
Bw - 12 to 17 inches: loamy sand
Bkkm - 17 to 39 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 12 to 20 inches to petrocalcic
Drainage class: Excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R077DY048TX - Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 15 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Berino

Percent of map unit: 10 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 5 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
TF—Tonuco loamy fine sand, 0 to 3 percent slopes						
Tonuco	R077DY048TX: Shallow 12-17" PZ	1,300	900	600	Sideoats grama	25
					Black grama	15
					Little bluestem	15
					Miscellaneous perennial forbs	10
					Miscellaneous perennial grasses	5
					Miscellaneous shrubs	5
					Blue grama	5
					Hairy grama	5
					Buffalograss	5
					Sand dropseed	5
					New mexico feathergrass	3
					Yucca	2

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Pyote

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
KM—Kermit soils and Dune land, 0 to 12 percent slopes						
Kermit	R070BC022NM: Sandhills	1,350	—	600	Dropseed	15
					Miscellaneous perennial grasses	15
					Giant dropseed	10
					Havard's panicgrass	10
					Sand bluestem	10
					Miscellaneous perennial forbs	10
					Yucca	5
					Plains bristlegrass	5
					Havard's oak	5
					Sand paspalum	5
					Common sunflower	5
					Miscellaneous shrubs	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Landscape: Uplands
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landscape: Uplands
Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PU—Pyote and Maljamar fine sands						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial forbs	10
					Giant dropseed	5
					Mesa dropseed	5
					Sand dropseed	5
					Plains bristlegrass	5
					Bush muhly	5
					Arizona cottontop	5
					Hooded windmill grass	5
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
Maljamar	R070BD003NM: Loamy Sand	1,800	—	650	Miscellaneous perennial forbs	15
					Black grama	15
					Miscellaneous perennial grasses	10
					Little bluestem	10
					Plains bristlegrass	10
					Dropseed	10
					Miscellaneous shrubs	5
					Sand sagebrush	5
					Cane bluestem	5
					Fall witchgrass	5
					Bush muhly	5
					Havard's oak	5

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

PY—Pyote soils and Dune land

Map Unit Setting

National map unit symbol: dmqr
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landscape: Sandhills
Landform: Depressions
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills
Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Maljamar, fine sand

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
PY—Pyote soils and Dune land						
Pyote	R070BD003NM: Loamy Sand	2,000	1,500	1,000	Spike dropseed	10
					Miscellaneous perennial forbs	10
					Little bluestem	10
					Sand bluestem	10
					Miscellaneous shrubs	10
					Miscellaneous perennial grasses	5
					Cane bluestem	5
					Black grama	5
					Hooded windmill grass	5
					Arizona cottontop	5
					Bush muhly	5
					Plains bristlegrass	5
					Sand dropseed	5
					Mesa dropseed	5
					Giant dropseed	5
Dune land	—	—	—	—	—	—

Received by OCD: 10/22/2026 11:18:58 AM

Lea County, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw3c
Landscape: Plateaus
Elevation: 3,280 to 4,460 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 59 to 64 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 70 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Sandy eolian deposits

Typical profile

A - 0 to 12 inches: loamy fine sand
Bw - 12 to 17 inches: loamy sand
Bkkm - 17 to 39 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 12 to 20 inches to petrocalcic
Drainage class: Excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Released to Imaging: 10/29/2026 11:09:48 AM

Received by OCD: 10/22/2026 11:18:58 AM

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R077DY048TX - Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 15 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Berino

Percent of map unit: 10 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 5 percent
Landscape: Plateaus
Landform: Plains, Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

Released to Imaging: 10/29/2026 11:09:48 AM

Report — Rangeland Productivity and Plant Composition

Lea County, New Mexico

Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct*
TF—Tonuco loamy fine sand, 0 to 3 percent slopes						
Tonuco	R077DY048TX: Shallow 12-17" PZ	1,300	900	600	Sideoats grama	25
					Black grama	15
					Little bluestem	15
					Miscellaneous perennial forbs	10
					Miscellaneous perennial grasses	5
					Miscellaneous shrubs	5
					Blue grama	5
					Hairy grama	5
					Buffalograss	5
					Sand dropseed	5
					New mexico feathergrass	3
					Yucca	2

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

PWD Data Report
10/22/2026

APD ID: 10400112414 **Submission Date:** 07/15/2026

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

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: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

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: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

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: COTERRA ENERGY OPERATING CO

Well Name: LAGUNA DEEP 2-26 FEDERAL COM **Well Number:** 223H

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
10/22/2026

APD ID: 10400112414
Submission Date: 07/15/2026
Operator Name: COTERRA ENERGY OPERATING CO
Well Name: LAGUNA DEEP 2-26 FEDERAL COM
Well Number: 223H
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:

Page 313 of 317

CERTIFICATION IN SUPPORT OF FORM C-102

Laguna Deep 2-26 Federal Com 221H, 222H, 223H and 224H

To Whom It May Concern:

I, Trey Roberson, a qualified petroleum landman, hereby certify the following in support of the Form C-102 submitted by Coterra Energy Operating Co. (OGRID 215099) for the Laguna Deep 2-26 Federal Com 221H, 222H, 223H and 224H wells.

1. Legal Description of Spacing Units

The existing wells' spacing units are described as follows:

Operated by BTA Oil Producers, LLC, Section 2, T20S-R33E, Lea County, New Mexico (GEM 8705 JV-P wells):

- 40-acre spacing unit, GEM 8705 JV-P #004 (API 30-025-31209), SE/4SW/4 of Section 2
- 40-acre spacing unit, GEM 8705 JV-P #005 (API 30-025-31271), SW/4SW/4 of Section 2
- 120-acre spacing unit, GEM 8705 JV-P #006H (API 30-025-31318), NE/4SW/4 and N/2NE/4 of Section 2
- 40-acre spacing unit, GEM 8705 JV-P #001 (API 30-025-29916), NW/4NE/4 of Section 2
- 40-acre spacing unit, GEM 8705 JV-P #009 (API 30-025-34841), NE/4NE/4 of Section 2

Operated by Shackelford Oil Co., Section 35, T19S-R33E, Lea County, New Mexico:

- 120-acre spacing unit, Laguna Deep Unit 35 Federal #002H (API 30-025-40943), SE/4SW/4 and S/2SE/4 of Section 35
- 40-acre spacing unit, Laguna Deep Unit 35 Federal #009H (API 30-025-37686), SW/4NW/4 of Section 35

Operated by Coterra Energy Operating Co., Section 35, T19S-R33E, Lea County, New Mexico:

- 40-acre spacing unit, Laguna Deep Federal Unit #005 (API 30-025-34749), NW/4SE/4 of Section 35
- 40-acre spacing unit, Laguna Deep Federal Unit #002 (API 30-025-26440), SE/4SW/4 of Section 35

The new wells' spacing unit is described as follows:

A 1,918.04-acre, more or less, non-standard horizontal Bone Spring spacing unit comprised of all of irregular Section 2 (comprised of Lot 4, the SW/4NW/4 and the W/2SW/4 (the W/2W/2 equivalent); Lot 3, the SE/4NW/4 and the E/2SW/4 (the E/2W/2 equivalent); Lot 2, the SW/4NE/4 and the W/2SE/4 (the W/2E/2 equivalent); and Lot 1, the SE/4NE/4 and the E/2SE/4 (the E/2E/2 equivalent), Township 20 South, Range 33 East, and all of Sections 35 and 26, Township 19 South, Range 33 East, NMPM, Lea County, New Mexico, in the Teas; Bone Spring, Pool Code 58960.

Received by OCD: 10/22/2026 11:18:58 AM

Released to Imaging: 10/29/2026 11:09:48 AM

2. Plat of Spacing Units

See attached plats.

3. Statement of Notice / Signed Waivers of Approval

At least 20 days before the date the application in Case No. 26109 was submitted to the Division, Coterra Energy Operating Co. sent notice by certified mail, return receipt requested, to all operators and working interest owners of record or known to Coterra in the existing and new wells' spacing units. The notice advised each recipient that, if it has an objection, it must deliver a written statement of objection to Coterra within 20 days of the date the notice was mailed. No such objection has been received.

I certify that the above statements and attachments are true and correct to the best of my knowledge.

Sincerely,



10/28/2026

Trey Roberson
Landman, Coterra Energy Operating Co.

Received by OCD: 10/22/2026 11:18:58 AM

Released to Imaging: 10/29/2026 11:09:48 AM

LAGUNA DEEP 2-26 FED COM WELLS
LAGUNA DEEP 2-26 FED COM 221H, 222H, 223H, AND 224H
LEA COUNTY, NEW MEXICO

devon

This map is for illustrative purposes only and is neither a legally recorded map nor a survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Datum: North American 1983

Created by: jenset

Map is current as of: 10/28/2026

N

0 1,000 2,000 Feet

1:18,000

- Deviated Surface
- Directional Survey
- Facilities
- GEM 8705 JV-P #001
- GEM 8705 JV-P #004
- GEM 8705 JV-P #005
- GEM 8705 JV-P #006H
- GEM 8705 JV-P #009
- Laguna Deep Federal Unit #002
- Laguna Deep Federal Unit #005
- Laguna Deep Unit 35 Federal #002H
- Laguna Deep Unit 35 Federal #009H

19S - 33E - 22
19S - 33E - 23
19S - 33E - 24
LEA COUNTY
19S - 33E - 27
19S - 33E - 25
19S - 33E - 26
19S - 33E - 28
19S - 33E - 33
19S - 33E - 34
19S - 33E - 35
19S - 33E - 36
20S - 33E - 4
20S - 33E - 3
20S - 33E - 2
20S - 33E - 1
20S - 33E - 9
20S - 33E - 10
20S - 33E - 11
20S - 33E - 12

LAGUNA DEEP 2-26 FED COM 221H 30025A1202
LAGUNA DEEP 2-26 FED COM 222H 30025A1193
LAGUNA DEEP 2-26 FED COM 223H 30025A1198
LAGUNA DEEP 2-26 FED COM 224H 30025A1201

Laguna Deep Unit 35 Federal #009H
Laguna Deep Federal Unit #005
Laguna Deep Federal Unit #002
Laguna Deep Unit 35 Federal #002H
GEM 8705 JV-P #001
GEM 8705 JV-P #006H
GEM 8705 JV-P #009
GEM 8705 JV-P #006H
GEM 8705 JV-P #005
GEM 8705 JV-P #004
LAGUNA DEEP-ANACONDA W2 PAD
LAGUNA

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: Coterra Energy Operating Co. 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 215099
	Action Number: 635388
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 635388

CONDITIONS

Operator: Coterra Energy Operating Co. 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 215099
	Action Number: 635388
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
wsalter	Cement is required to circulate on both surface and intermediate1 strings of casing.	10/22/2026
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	10/27/2026
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.	10/29/2026
jeffrey.harrison	NSP required prior to production IF not included in an existing order OR not an infill to an appropriate defining well in the same pool and spacing unit.	10/29/2026
jeffrey.harrison	This well is within the designated 4-string area. At least four full casing strings must be utilized for this well.	10/29/2026
jeffrey.harrison	This well is within the Capitan Reef aquifer zone. The first intermediate casing string shall be set and cemented back to surface immediately above the Capitan Reef. The second intermediate string shall be set and cemented back to surface immediately below the base of the Capitan Reef.	10/29/2026
jeffrey.harrison	Brine water shall not be used in the Capitan Reef. Only fresh water shall be utilized until the Capitan Reef is cased and cemented.	10/29/2026
jeffrey.harrison	This well is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the order.	10/29/2026
jeffrey.harrison	Cement must be in place for at least 8 hours AND achieve a minimum compressive strength of 500 psi before performing further operations on the well.	10/29/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	10/29/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	10/29/2026
jeffrey.harrison	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.	10/29/2026
jeffrey.harrison	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.	10/29/2026