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
  -- Well Plat: 1 file(s)

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

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 4 file(s)
  -- New Road Map: 1 file(s)
  -- Attach Well map: 1 file(s)
  -- Production Facilities map: 4 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Construction Materials source location attachment: 1 file(s)
  -- Well Site Layout Diagram: 3 file(s)
  -- Recontouring attachment: 1 file(s)

- PWD Report
- PWD Attachments
  -- None

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- 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.
30-025-56125

3a. Address

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

10. Field and Pool, or Exploratory
WC-025 G-08 S263205N;UPPER WOLFCAMP

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: 03/27/2026

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INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

Released to Imaging: 4/14/2026 9:25:06 AM

Approval Date: 03/27/2026

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Additional Operator Remarks

Location of Well

0. SHL: NENE / 207 FNL / 1149 FEL / TWSP: 26S / RANGE: 32E / SECTION: 4 / LAT: 32.079086 / LONG: -103.675197 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 1650 FEL / TWSP: 26S / RANGE: 32E / SECTION: 4 / LAT: 32.079376 / LONG: -103.676816 (TVD: 11598 feet, MD: 11624 feet)

PPP: SWSE / 760 FSL / 1650 FEL / TWSP: 26S / RANGE: 32E / SECTION: 4 / LAT: 32.067085 / LONG: -103.676767 (TVD: 12190 feet, MD: 17459 feet)

PPP: SESE / 760 FSL / 330 FEL / TWSP: 26S / RANGE: 32E / SECTION: 4 / LAT: 32.067068 / LONG: -103.672507 (TVD: 12190 feet, MD: 18496 feet)

BHL: NENE / 100 FNL / 1650 FEL / TWSP: 26S / RANGE: 32E / SECTION: 4 / LAT: 32.079387 / LONG: -103.672555 (TVD: 12190 feet, MD: 22967 feet)

BLM Point of Contact

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

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Hallertau 5 FEDERAL COM 415H

APD - Geology COAs (Not in Potash or WIPP)

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

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

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

Be aware that:

- H2S has been reported within one mile of the proposed project. Measurements up to 2500 ppm were recorded.

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

SURFACE USE CONDITIONS OF APPROVAL

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])
Hallertau 5 E2E2	Hallertau 5 Federal Com 401H SHL: 319 feet FNL and 1230 feet FEL, Section 5, T. 26 S., R. 32 E. BHL: 100 feet FNL and 990 feet FEL, Section 5, T. 26 S., R. 32 E.
Hallertau 5 E2E2	Hallertau 5 Federal Com 411H SHL: 319 feet FNL and 1210 feet FEL, Section 5, T. 26 S., R. 32 E. BHL: 100 feet FNL and 990 feet FEL, Section 5, T. 26 S., R. 32 E.
Hallertau 4 E2W2	Hallertau 4 Federal Com 402H SHL: 115 feet FNL and 1240 feet FWL, Section 4, T. 26 S., R. 32 E. BHL: 100 feet FNL and 1650 feet FWL, Section 4, T. 26 S., R. 32 E.
Hallertau 4 E2W2	Hallertau 4 Federal Com 412H SHL: 115 feet FNL and 1260 feet FWL, Section 4, T. 26 S., R. 32 E. BHL: 100 feet FNL and 2310 feet FWL, Section 4, T. 26 S., R. 32 E.
Hallertau 4 E2E2	Hallertau 4 Federal Com 405H SHL: 207 feet FNL and 1169 feet FEL, Section 4, T. 26 S., R. 32 E. BHL: 100 feet FNL and 990 feet FEL, Section 4, T. 26 S., R. 32 E.
Hallertau 4 E2E2	Hallertau 4 Federal Com 415H SHL: 207 feet FNL and 1149 feet FEL, Section 4, T. 26 S., R. 32 E. BHL: 100 feet FNL and 1650 feet FEL, Section 4, T. 26 S., R. 32 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.

2. ACCESS ROAD(S)

ROAD WIDTH & GRADE

The road will have a driving surface of 14 feet (all roads shall have a minimum driving surface of 12 feet, unless local conditions dictate a different width). The maximum grade is 10% unless the box below is checked. The maximum width of surface disturbance from construction will be 25 feet.

☐ The segments of road where the grade is more than 10% for greater than 300 feet shall be designed by a professional engineer.

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

Crowning & Ditching

Crowning with materials onsite and ditching on one side of the road on the uphill side will be required. The road cross-section will conform to the cross-section diagrams in turnout diagram. If conditions dictate, ditching may be required for both sides of the road; if local conditions permit, a flat-bladed road may be considered (if these conditions exist, check the appropriate box below). The crown shall have a grade of approximately 2% (i.e., 1" crown on a 12' wide road.)

☐ Ditching will be required on both sides of the roadway as shown on the attached plat or as staked in the field.

☐ Flat blading is authorized on segment(s) delineated on the attached plat.

Drainage

Drainage control shall be ensured over the entire road using borrow ditches, out-sloping, in-sloping, natural rolling topography, lead-off (turnout) ditches, culverts, and/or drainage dips.

Culvert pipes shall be used for cross drains where drainage dips or low water crossings are not feasible. The minimum culvert diameter must be 18 inches. **Due to flash floods, increased overland flow, and related debris, the BLM strongly recommends the operator increases the culvert diameter to 24 inches or larger.** Flared culvert, rock armoring, and gravel are recommended for culvert stability. Culvert location and required diameter are shown on the attached map. If culverts or drainage crossings are needed, they should be designed for a **25-year or greater storm frequency**, without development of a static head at the pipe inlet. ***Any culvert pipe installed shall be of sufficient diameter to pass the anticipated flow of water.***

All lead-off and turnout ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval for lead-off ditches shall be determined according to the following table, but may be amended depending upon existing soil types and centerline road slope:

Percent Slope	Spacing Interval
0% – 4%	400’ – 150’
4% – 6%	250’ – 125’
6% – 8%	200’ – 100’
8% – 10%	150’ – 075’

Turnout ditches and drainage leadoffs will not be constructed in such a manner as to increase or decrease the natural flow of water into or out of cave or karst features.

Lead-Off

A typical lead-off ditch has a minimum depth of 1 foot below and a berm 1 foot above natural ground level. The berm will be on the down-slope side of the lead-off ditch. The ditch end will tie into vegetation whenever possible.

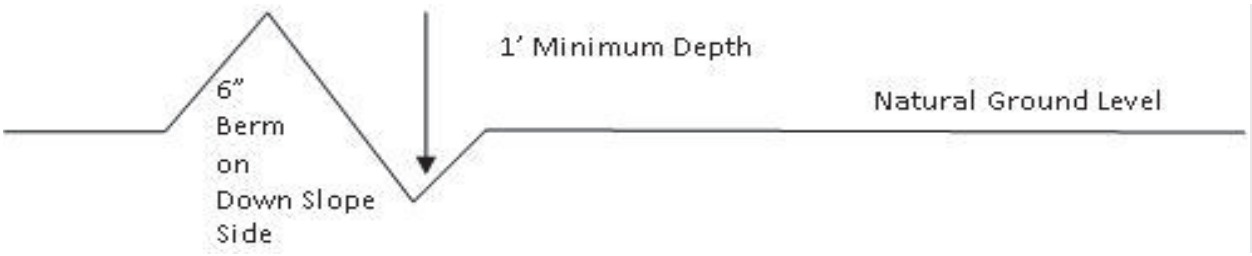
For this road the spacing interval for lead-off ditches shall be at:

☒ 400-foot intervals.

☐ 2500-foot intervals.

☐ Locations staked in the field as per spacing intervals above.

☐ Locations delineated on the attached plat.



On road slopes exceeding 2%, drainage dips shall drain water into an adjacent lead off ditch. Drainage dip location and spacing shall be determined by the formula:

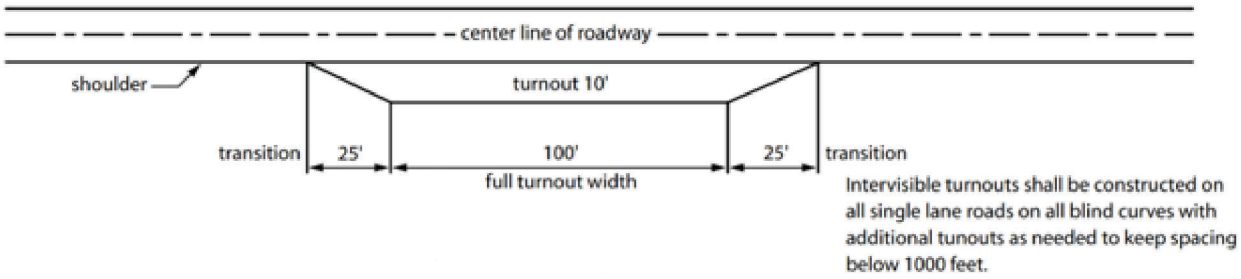
$$Spacing\ Interval = Road\ Slope\ in\ \% + 100'$$

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

$$400\ ft\ road\ with\ 4\%\ slope = \frac{400'}{4\%} + 100' = 200'\ leadoff\ ditch\ interval$$

TURNOUTS

Unless otherwise approved by the Authorized Officer, vehicle turnouts will be required. Turnouts will be located at 1000-foot intervals, or the turnouts will be intervisible, whichever is less. **Turnouts will conform to the following diagram:**



Additional options can be found within the fourth edition of the **Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development (The Gold Book)**.

SURFACING

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation. Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification. When surfacing is required, surfacing materials will be compacted to a minimum thickness of **6 inches** with caliche material. The width of surfacing shall be no less than the driving surface.

EROSION CONTROL & ROAD MAINTENANCE

The holder shall maintain the road in a safe, usable condition. A maintenance program shall include, but not be limited to blading, ditching, culvert installation, culvert cleaning, drainage installation, cattleguard maintenance, and surfacing.

If, during any phase of the construction, operation, maintenance, or termination of the road, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil of other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault.

Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.

Public Access

The holder will not restrict public access along this road without specific written approval being granted by the Authorized Officer. Gates or cattle guards on public lands will not be locked or closed to public use unless closure is specifically determined to be necessary and is authorized in writing by the Authorized Officer.

Reclamation

When the road is abandoned, it will be ripped at least sixteen inches deep, including turnouts. The caliche may be reclaimed for re-use before ripping, if so desired. Alternately, the caliche can be plowed under with a grader, or other soil turning device, and the plowed surface disked before seeding. All culverts or other structures will be removed. All fill material will be replaced into the cut areas; barrow and lead-off ditches, drainage dips, or other erosion control earthwork will be filled or smoothed; and the abandoned road returned to the natural contours, as closely as possible. Water breaks at least eight inches high will be constructed. Traffic barriers will be installed at all vehicular access points to prevent further use of the road.

The Authorized Officer for the BLM, Carlsbad Field Office (505-234-5972) will be contacted for full reclamation of the access road upon abandonment of the wells being served by the access road.

3. ELECTRIC & FIBER CABLE(S)

All power poles used shall be a drab blond color and a non-reflective/non-specular wire shall be used.

Power lines shall be constructed and designed in accordance with standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder assumes the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms, and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms, and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

There will be no clearing or blading of the corridor unless otherwise agreed to in writing by the Authorized Officer.

The holder shall not use the corridor as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder shall take whatever steps are necessary to ensure that the route is not used as a roadway.

For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of

abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

4. PIPELINE(S)

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

All construction and maintenance activity shall be confined to the authorized permit length of **6415.9 feet**. Regular monitoring is required to quickly identify leaks for their immediate and proper treatment. All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

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

A sign stating “This Pipeline Corridor is Closed to Vehicular Traffic Due to Reclamation Efforts in Progress” will be placed where the pipeline crosses any road (both sides of the road), and at the beginning and end of the pipeline route on BLM administered lands. ***Upon successful completion of reclamation, no further motorized travel will occur on the pipeline route.***

TEMPORARY FRESHWATER PIPELINES / FLOWLINES

Surface pipelines, 6.5-inch to 16-inch OD, may be in place for no more than 180 days not including installation. **This 180-day period shall begin on the date of approval.** Surface pipeline will be in operation for no more than 180-days, with a maximum of seven (7) days authorized for installation of the lay flat poly line prior to operation.

Surface pipelines larger than 6.5-inch to-16-inch OD may be in place for no more than 180-days from date of authorization, unless a SF-299 is submitted within 30 days of this decision expiring requesting a long term buried fresh water pipeline, and processing of the SF-299 is not yet complete at the end of 30-days, in which case the line(s) may be left in place until a decision is made on the SF-299.

- All lines must be removed when no longer in use.
- Width of authorized use is 15-feet.

No blading and/or earthwork will be allowed to place the pipeline, except burying the line under crossings (with a minimum cover of 36 inches between the top of the pipe and ground level.) The pipeline will be buried under all intersecting routes, including BLM-designated trails and access roads into caliche pits, rancher watering stations, etc. All such buried crossings will be removed when the pipeline is removed, unless otherwise approved by the Authorized Officer. Pipelines larger than 6.5-inch OD may utilize other crossing methodologies (but any fill placed over pipeline must be brought in from off-site.) Placement of surface pipelines along or under public roadways may require permits from the road authority.

The pipeline shall stay within 10 feet maximum of existing disturbance (e.g. lease road, pipeline corridor etc.); placement must be within 5 feet whenever possible. Due to potential damage to natural resources, no work is allowed during inclement weather.

Placement of pumps or other high-maintenance equipment shall be installed along maintained lease roads. Gas or diesel pumps, generators, or compressors shall be placed on geosynthetic lining [or 20 mil plastic] and in a containment structure capable of containing all potentially released fuels. Containments must be protected against

wildlife deaths in accordance with best management practices. **No water may be released into the environment without BLM consent.**

The pipeline will be marked with your company's name and contact number, at beginning and ending points, at all public road crossings, and at intervals not exceeding every 0.5 mile, unless otherwise approved by the Authorized Officer. Should unforeseen damage occur to resources, BLM will require reclamation of the impacted land.

Buried Pipeline

The pipeline will be buried with a minimum cover of **36 inches** between the top of the pipe and ground level (including under roads). ***The pipeline must be buried at least 48-inches deep in irrigated fields.*** Boring is required where the line crosses all cement irrigation ditches. No damage should occur to the ditches. Consequently, if damage should occur, the holder is liable for any necessary repairs. The BLM Carlsbad Field Office will determine design standards for any necessary repair.

Areas of cut and/or fill totaling more than 6-vertical-feet requires specific site-by-site approval by the BLM Authorized Officer.

Welding Stipulations

The following precautions will be taken for all arc and/or gas welding operations, and operations where oxyacetylene cutting and brazing are done in a wildland fire environment.

1. At the work site, clear away all flammable vegetation down to mineral soil for a minimum radius of 6 feet around where the welding/cutting will take place. This includes grasses and other vegetative material.
2. While conducting the welding/cutting operations, the operator will have within 25 feet of the welding/cutting site: Five (5) gallons of water and / or a five (5) pound multi-purpose dry fire extinguisher and a round point shovel.
3. After welding/cutting activities are completed, a routine return to the site will be required within 1 hour after the completion of the activity to check for any potential hot material that may start a wildland fire.

Operators and contractors are reminded that they may be held responsible for any wildland fire that starts from welding/cutting operations. This includes the cost for suppressing any wildland fire that starts from these activities.

5. WELL PAD(S)

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from encountering soil and water. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps

Mitigation of tank battery and mud pit spills can be accomplished using special construction features, the use of permanent non-permeable pit liners to prevent leaching, appropriate berms constructed around the facilities, and leak detection systems. Upon completion of drilling, if it is determined that the well is a producer, access roads and the drill pad for this well must be surfaced with 6-inches of compacted caliche.

Consistent with 43 CFR 9212.1-3 and lease rights granted, the operator shall comply with fire prevention orders issued during times of very high fire danger.

Operators shall contact a BLM Surface Protection Specialist prior to surface abandonment operations for site specific objectives. Once the site is no longer in service or use, the site must undergo final abandonment. At final abandonment, the site and access roads must undergo "final" reclamation so that the character and productivity of the land are restored. Earthwork for final reclamation must be completed within six (6) months of the abandonment of the site. All pads and facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact. After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

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

Open-Topped Tanks: The operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock.

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

Containment Structures: At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Exclosure Fencing (Cellars & Pits): The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the well cellar is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations.) The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

Flares: The flare line(s) discharge shall be located not less than 150 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned in a manner to compensate for wind changes, and shall be anchored. The flare system shall have an effective method for ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare. Flares shall be fitted with a device to prevent oil from being emitted into the air or off location. A fuel break shall be maintained around the flare site to prevent ignition of wildfires. All flammable products and debris shall be cleared and vegetation will be mowed (or trimmed where mowing is not practical) to a height not to exceed 4 inches. The fuel-break area will extend from the flare stack a total distance equal to 3 times the height of the flare stack.

Tank Battery: Tank battery locations will be lined and bermed. A 20-mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24-hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

Pad Construction

Material from the pits should be used for the construction of the pad. Roads and the drill pad for this well must be surfaced with 6-inches of compacted caliche upon completion of well if it is determined to be a producer.

Topsoil: The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the permit. **No more than the top 6 inches of topsoil shall be removed.** All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation. Other subsoil (the B horizon and below) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

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

Production (Post-Drilling)

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

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

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

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

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

Reserve Pit

The reserve pit shall be constructed entirely in cut material and lined with 6 mil plastic. The reserve pit may be constructed in predominantly fill material if it is lined as specified above and a temporary or emergency pit may be constructed immediately adjacent to the reserve pit if the pit remains within the project boundary.

Reclamation of this type of deep pit will consist of pushing the pit walls into the pit when sufficiently dry to support track equipment. The pit liner is not to be ruptured to facilitate drying; a ten-month period after completion of the well is allowed for drying of the pit content. The pit area must be contoured to the natural terrain with all contaminated drilling mud buried with at least 3 feet of clean soil. The reclaimed area will then be seeded as specified in this permit. Reserve Pit construction and reclamation will be subject to the New Mexico Oil Conservation Division's Pit Construction and Closure Guidelines.

6. SURFACE SITE(S)

Compressor Station

Exhaust noise from the compressor station must be muffled or otherwise controlled so as not to exceed 75 dB measured at 30 feet from the source of the noise.

Communication Site

This authorization is assigning interest to the applicant on the existing communication tower and equipment building only. Tenants or customers on the tower must have prior BLM approval. No new surface disturbance or construction will be allowed due to this authorization. New surface disturbing activities, including changes, maintenance and upgrades beyond what was originally agreed to in the lease, must be applied for on a separate application, and will require NEPA compliance including a Class III Cultural Inventory Report.

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.

5.2.1 RANGELAND RESOURCES

CATTLEGUARDS

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

FENCE REQUIREMENT

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

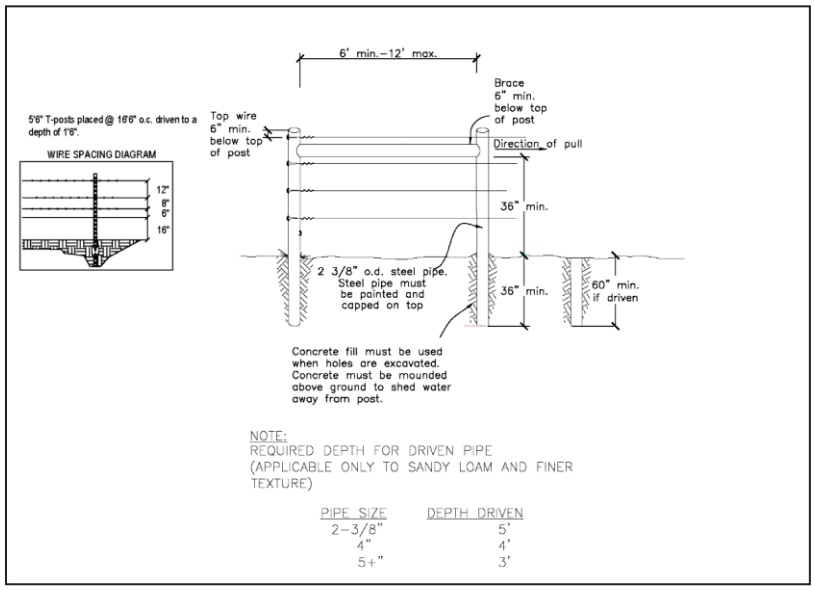


Figure 1: Pipe H-Brace Specifications

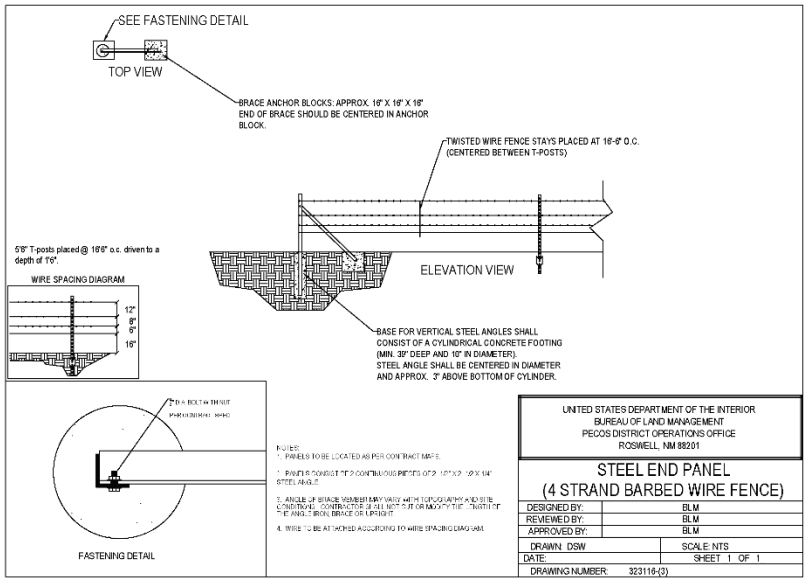


Figure 2: Angle Iron Brace Specifications

Escape Ramps

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

a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
b. For trenches left open for eight (8) hours or more (or overnight), earthen escape ramps (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
c. Holder shall ensure safe passage for livestock and wildlife during construction of the welded pipe on surface prior to laying in the trench every quarter of a mile or at grazing permittees reasonable discretion.

Livestock Watering Requirement

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the Proposed Action. ***Any damage to structures that provide water to livestock throughout the life of the project, caused by operations from the project, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.***

Noxious Weeds

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

African Rue (*Peganum Harmala*)

If African Rue is present within the proposed project, the following stipulations apply:

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

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

2. VISUAL RESOURCE MANAGEMENT

VRM IV

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

NIGHT SKIES

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

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

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

RECLAMATION

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

1. ROAD AND SITE RECLAMATION

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

2. EROSION CONTROL

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

3. INTERIM RECLAMATION

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

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

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

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

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

4. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

5. SEEDING REQUIREMENTS

SEEDING TECHNIQUES

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

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided within. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

SOIL SPECIFIC SEED MIXTURE

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

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

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

$$\textbf{\textit{Pounds of Pure Live Seed}} = Pounds\ of\ Seed * Percent\ Purity * Percent\ Germination$$

SEED MIXTURE 2 FOR SANDY SITES

Species to be planted in **Pounds of Pure Live Seed** per acre:

Species	lb/acre
Sand Dropseed (*Sporobolus cryptandrus*)	1.0
Sand Love Grass (*Eragrostis trichodes*)	1.0
Plains Bristlegrass (*Setaria macrostachya*)	2.0

GENERAL PROVISIONS

1. The BLM shall administer compliance and monitor construction of the disturbance. Notify the Carlsbad 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.
2. The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties. A copy of these stipulations and survey plat and / or map will be on location during construction, drilling and reclamation activity. BLM personnel may request a copy of your permit during construction to ensure compliance with all stipulations.
3. The holder / operator shall conduct all activities associated with the construction, operation, and termination of the right-of-way within the authorized limits of the right-of-way.

4. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
5. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR § 2803 & 2883. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from fire or soil movement (including landslides and slumps as well as wind and water caused movement of particles) caused or substantially aggravated by any of the following within the right-of-way or permit area:
    a. Activities of the holder, including but not limited to, construction, operation, maintenance, and termination of the facility.
    b. Activities of other parties including but not limited to:
        i. Land clearing.
        ii. Earth-disturbing and earth-moving work.
        iii. Blasting.
        iv. Vandalism and sabotage.
    c. Acts of God.

    The maximum limitation for such strict liability damages shall not exceed one million dollars ($1,000,000) for any one event and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction of in which the damage of injury occurred. This section shall not impose strict liability for damage or injury resulting primarily from the negligent acts of the United States.

    If, during any phase of the construction, operation, maintenance, or termination of the site or related pipeline(s), any oil or other pollutant should be discharged from site facilities, the pipeline(s) or from containers or vehicles impacting Federal lands, the control and total removal, disposal, and cleanup of such oil of other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.
6. The operator will notify the Bureau of Land Management (BLM) authorized officer and nearest Fish and Wildlife Service (FWS) Law Enforcement office within 24 hours, if the operator discovers a dead or injured federally protected species (i.e., migratory bird species, bald or golden eagle, or species listed by the FWS as threatened or endangered) in or adjacent to a pit, trench, tank, exhaust stack, or fence. (If the operator is unable to contact the FWS Law Enforcement office, the operator must contact the nearest FWS Ecological Services office.)
7. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. §§ 2601) regarding any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant (40 CFR § 702-799.) Additionally, any release of toxic substances (leaks, spills, etc.) more than the reportable quantity established by 40 CFR § 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government because of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

8. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. §§ 9601 or the Resource Conservation and Recovery Act, 42 U.S.C. §§ 6901) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
9. Sites shall always be maintained in an orderly, sanitary condition. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations. All trash, debris and other waste materials shall be contained in trash cages or bins to prevent scattering. Burial on site is not permitted. Waste materials, both liquid and solid, shall be disposed of promptly at an appropriate, authorized waste disposal facility in accordance with all applicable State and Federal laws. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, petroleum products, brines, chemicals, oil drums, ashes, and equipment.
10. The BLM serial number assigned to this right-of-way grant shall be posted at the points of origin and completion of the right-of-way (or entry to and exit from public lands), all major road crossings, and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served. These signs will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the term of the right-of-way.
11. A sales contract for removal of mineral material (caliche, sand, gravel, fill dirt) from an authorized pit, site, or on location must be obtained from the BLM prior to commencing construction. **Removal of any additional material from this location for construction or improvement of other well pads and other access or lease roads must first be purchased from BLM.** Removal of any material from the project boundary for use on other leases or roads must first be purchased from BLM.
12. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be always maintained. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
13. In those areas where erosion control structures are required to stabilize soil conditions, the holder shall install such structures as are suitable for specific soil conditions being encountered and which are in accordance with sound management practices. Any earthwork will require prior approval by the Authorized Officer.
14. Any vegetation, soil, and rocks left because of construction, drilling, or maintenance activity will be randomly scattered over the project area and will not be left in rows, piles, or berms, unless otherwise approved by the authorized officer. The backfilled soil shall be compacted, and a 6-inch berm will be left over the ditch line to allow for settling back to grade. The holder shall stockpile an adequate amount of topsoil where blading occurs. The topsoil to be stripped is approximately 6-inches in depth. The topsoil will be segregated from other spoil piles. Following backfilling and recontouring, the topsoil will be evenly distributed over the bladed area for the preparation of seeding. The entire corridor shall be recontoured to match the surrounding landscape.
15. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer. All surface structures shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facilities or this grant, whichever comes first. This will not apply where the facilities extend to serving an active, adjoining facility. At final abandonment, well locations, production facilities, and access

roads must undergo "final" reclamation so that the character and productivity of the land are restored. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Coterra Energy Operating Co**
LOCATION:	Section 4, T.26 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	**Hallertau 4 Federal Com 415H**
ATS/API ID:	**ATS-26-1098**
APD ID:	**10400110106**
Sundry ID:	**N/a**

COA

H2S	Yes		
Potash	None	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	☐ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String ☐ 5 String	Capitan Reef: None	☐ WIPP
Other	Pilot Hole: None	☐ Open Annulus	
Cementing	Contingency Squeeze: None	Echo-Meter: None	Primary Cement Squeeze: None
Special Requirements	☐ Water Disposal/Injection	☑ COM	☐ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention: None	
Special Requirements Variance	☐ BOPE Break Testing ☐ Offline BOPE Testing	☐ Offline Cementing	☑ Casing Clearance

Approval Date: 03/27/2026

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** 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 **10-3/4** inch surface casing shall be set at approximately **1040 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **14 3/4** inch in diameter.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Approval Date: 03/27/2026

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7-5/8** inch intermediate casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

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

Approval Date: 03/27/2026

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Casing Clearance

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

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

GENERAL REQUIREMENTS

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

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

☑ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

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

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

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

A. CASING

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

Approval Date: 03/27/2026

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

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

4. Acceptable Method of Cement Verifications:

    a. Observing cement circulated to surface.
    b. Cement bond log (CBL).
    c. Temperature log within 8-10 hours after completing the cement job.
    d. Echometer (if a second-stage bradenhead squeeze is being used).

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

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

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

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

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

B. PRESSURE CONTROL

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

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

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

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

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

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

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

off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

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

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

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Long Vo (LVO) 3/17/2026

Approval Date: 03/27/2026

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

Operator Certification Data Report

03/30/2026

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: CRYSTAL DENSON **Signed on:** 03/17/2026

Title: Regulatory Analyst

Street Address: 6001 DEAUVILLE BLVD SUITE 300N

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

Phone: (432)620-1644

Email address: CRYSTAL.DENSON@COTERRA.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

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

Application Data
03/30/2026

APD ID: 10400110106
Submission Date: 02/13/2026
Operator Name: COTERRA ENERGY OPERATING CO
Well Name: HALLERTAU 4 FEDERAL COM
Well Number: 415H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400110106
Tie to previous NOS? N
Submission Date: 02/13/2026
BLM Office: Carlsbad
User: CRYSTAL DENSON
Title: Regulatory Analyst
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM0392082A
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

Operator Info

Operator Organization Name: COTERRA ENERGY OPERATING CO
Operator Address: 3001 DEAUVILLE BLVD SUITE 300 N
Zip: 79705
Operator PO Box:
Operator City: MIDLAND
State: TX
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: HALLERTAU 4 FEDERAL COM
Well Number: 415H
Field/Pool or Exploratory? Field and Pool
Field Name: WC-025 S253277A
Pool Name: WOLFCAMP

Released to Imaging: 4/14/2026 9:25:06 AM

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

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:** Hallertau 5 Fed Com Pad 1 **Number:** E2E2

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: 49 Miles **Distance to nearest well:** 20 FT **Distance to lease line:** 100 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: HALLERTAU_4_FEDERAL_C102_WELL_415H_20260213111232.pdf

Well work start Date: 04/01/2026 **Duration:** 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	207	FNL	1149	FEL	26S	32E	4	Aliquot NENE	32.079086	-103.675197	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 039208 2A	3307			Y
KOP Leg #1	100	FSL	1650	FEL	26S	32E	4	Aliquot NWNE	32.079376	-103.676816	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 039208 2A	-8291	11624	11598	N
PPP Leg #1-1	100	FNL	1650	FEL	26S	32E	4	Aliquot NWNE	32.079376	-103.676816	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 039208 2A	-8291	11624	11598	N

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

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	760	FSL	1650	FEL	26S	32E	4	Aliquot SWSE	32.067085	-103.676767	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 039208 2A	-8883	17459	12190	Y
PPP Leg #1-3	760	FSL	330	FEL	26S	32E	4	Aliquot SESE	32.067068	-103.672507	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 039208 2A	-8883	18496	12190	N
EXIT Leg #1	100	FNL	1650	FEL	26S	32E	4	Aliquot NENE	32.079387	-103.672555	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 039208 2A	-8883	22967	12190	Y
BHL Leg #1	100	FNL	1650	FEL	26S	32E	4	Aliquot NENE	32.079387	-103.672555	HIDALGO	NEW MEXICO	NEW MEXICO	F	NMNM 039208 2A	-8883	22967	12190	Y

CONFIDENTIAL

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-025-56125	~~98203~~ 98065	~~WC-025 S253227A; LWR WOLFCAMP~~ WC-025 G-08 S263205N;UPPER WOLFCAMP
Property Code	**Property Name**	**Well Number**
316338	HALLERTAU 4 FEDERAL COM	415H
OGRID No.	**Operator Name**	**Ground Level Elevation**
215099	COTERRA ENERGY OPERATING CO.	3,307.7'

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
A	4	26S	32E		207 NORTH	1,149 EAST	32.079086°	-103.675197°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
A	4	26S	32E		100 NORTH	330 EAST	32.079387°	-103.672555°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
640	Infill	405H - Pending	N	C

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

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
B	4	26S	32E		100 NORTH	1,650 EAST	32.079376°	-103.676816°	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
B	4	26S	32E		100 NORTH	1,650 EAST	32.079376°	-103.676816°	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
A	4	26S	32E		100 NORTH	330 EAST	32.079387°	-103.672555°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
N/A	☑ Horizontal ☐ Vertical	3,307.7'

OPERATOR CERTIFICATIONS

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

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

Crystal Denson 2/4/2026

Signature Date

Crystal Denson

Printed Name

Crystal.Denson@coterra.com

Email Address

SURVEYOR CERTIFICATIONS

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

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 01-06-26

Signature and Seal of Professional Surveyor

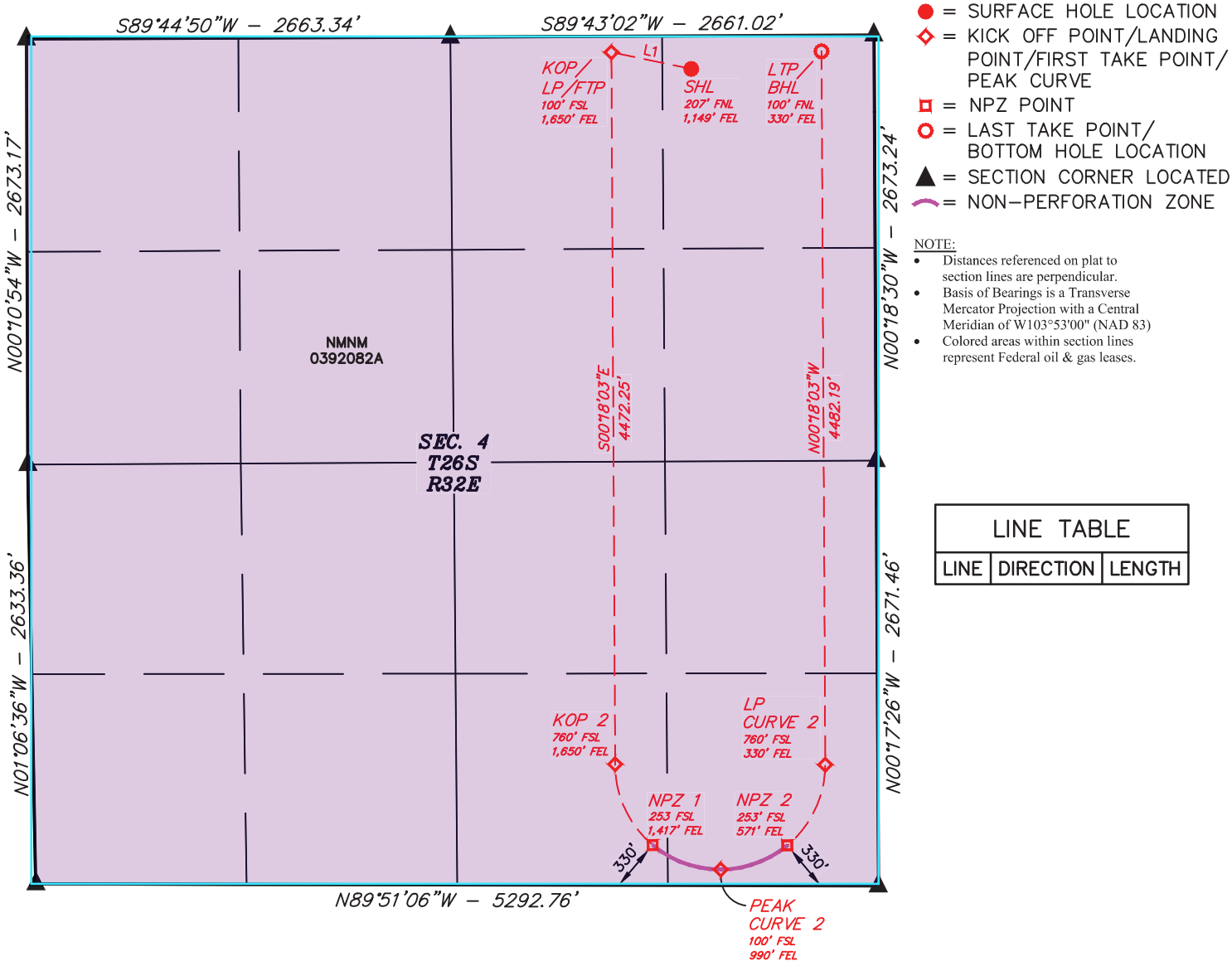
23782 December 22, 2025

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: 4/14/2026 9:25:06 AM

Property Name	Well Number	Drawn By	Revised By
HALLERTAU 4 FEDERAL	415H	N.R. 01-06-26	

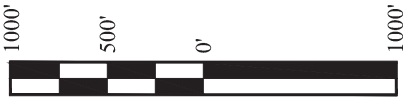


NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.

LINE TABLE		
LINE	DIRECTION	LENGTH

NAD 83 (SURFACE HOLE LOCATION)	NAD 83 (KOP/LP/FTP)	NAD 83 (KOP 2)	NAD 83 (NPZ 1)
LATITUDE = 32°04'44.71" (32.079086°)	LATITUDE = 32°04'45.75" (32.079376°)	LATITUDE = 32°04'01.50" (32.067085°)	LATITUDE = 32°03'56.48" (32.065689°)
LONGITUDE = -103°40'30.71" (-103.675197°)	LONGITUDE = -103°40'36.54" (-103.676816°)	LONGITUDE = -103°40'36.36" (-103.676767°)	LONGITUDE = -103°40'33.64" (-103.676010°)
NAD 27 (SURFACE HOLE LOCATION)	**NAD 27 (KOP/LP/FTP)**	**NAD 27 (KOP 2)**	**NAD 27 (NPZ 1)**
LATITUDE = 32°04'44.26" (32.078961°)	LATITUDE = 32°04'45.30" (32.079251°)	LATITUDE = 32°04'01.06" (32.066960°)	LATITUDE = 32°03'56.03" (32.065564°)
LONGITUDE = -103°40'29.01" (-103.674724°)	LONGITUDE = -103°40'34.83" (-103.676343°)	LONGITUDE = -103°40'34.66" (-103.676295°)	LONGITUDE = -103°40'31.94" (-103.675538°)
STATE PLANE NAD 83 (N.M. EAST)	**STATE PLANE NAD 83 (N.M. EAST)**	**STATE PLANE NAD 83 (N.M. EAST)**	**STATE PLANE NAD 83 (N.M. EAST)**
N: 393130.28' E: 745178.63'	N: 393232.86' E: 744676.58'	N: 388761.61' E: 744718.71'	N: 388255.41' E: 744956.51'
STATE PLANE NAD 27 (N.M. EAST)	**STATE PLANE NAD 27 (N.M. EAST)**	**STATE PLANE NAD 27 (N.M. EAST)**	**STATE PLANE NAD 27 (N.M. EAST)**
N: 393072.69' E: 703992.21'	N: 393175.26' E: 703490.17'	N: 388704.13' E: 703532.11'	N: 388197.93' E: 703769.89'

NAD 83 (PEAK CURVE 2)	NAD 83 (NPZ 2)	NAD 83 (LP CURVE 2)	NAD 83 (LTP/BHL)
LATITUDE = 32°03'54.95" (32.065263°)	LATITUDE = 32°03'56.44" (32.065679°)	LATITUDE = 32°04'01.45" (32.067068°)	LATITUDE = 32°04'45.79" (32.079387°)
LONGITUDE = -103°40'28.67" (-103.674631°)	LONGITUDE = -103°40'23.81" (-103.673280°)	LONGITUDE = -103°40'21.03" (-103.672507°)	LONGITUDE = -103°40'21.20" (-103.672555°)
NAD 27 (PEAK CURVE 2)	**NAD 27 (NPZ 2)**	**NAD 27 (LP CURVE 2)**	**NAD 27 (LTP/BHL)**
LATITUDE = 32°03'54.50" (32.065138°)	LATITUDE = 32°03'55.99" (32.065554°)	LATITUDE = 32°04'01.00" (32.066943°)	LATITUDE = 32°04'45.34" (32.079262°)
LONGITUDE = -103°40'26.97" (-103.674159°)	LONGITUDE = -103°40'22.11" (-103.672808°)	LONGITUDE = -103°40'19.33" (-103.672035°)	LONGITUDE = -103°40'19.50" (-103.672082°)
STATE PLANE NAD 83 (N.M. EAST)	**STATE PLANE NAD 83 (N.M. EAST)**	**STATE PLANE NAD 83 (N.M. EAST)**	**STATE PLANE NAD 83 (N.M. EAST)**
N: 388102.78' E: 745384.71'	N: 388256.74' E: 745802.31'	N: 388763.70' E: 746038.51'	N: 393244.88' E: 745996.29'
STATE PLANE NAD 27 (N.M. EAST)	**STATE PLANE NAD 27 (N.M. EAST)**	**STATE PLANE NAD 27 (N.M. EAST)**	**STATE PLANE NAD 27 (N.M. EAST)**
N: 388045.31' E: 704198.07'	N: 388199.27' E: 704615.68'	N: 388706.22' E: 704851.90'	N: 393187.29' E: 704809.87'



SCALE

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

Drilling Plan Data Report
03/30/2026

APD ID: 10400110106
Submission Date: 02/13/2026
Operator Name: COTERRA ENERGY OPERATING CO
Well Name: HALLERTAU 4 FEDERAL COM
Well Number: 415H
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
17745237	RUSTLER	-1575	1020	1020	ANHYDRITE, SANDSTONE	USEABLE WATER	N
17745238	TOP SALT	-3075	1500	1500	ANHYDRITE	NONE	N
17745239	BASE OF SALT	-6105	4530	4530	ANHYDRITE	NONE	N
17745240	BELL CANYON	-6205	4630	4630	ANHYDRITE	NONE	N
17745241	CHERRY CANYON	-7435	5860	5860	SANDSTONE	NONE	N
17745242	BRUSHY CANYON	-8645	7070	7070	SANDSTONE	NONE	N
17745243	BONE SPRING LIME	-10185	8610	8610	LIMESTONE	NONE	N
17745244	BONE SPRING LIME	-10295	8720	8720	LIMESTONE	NONE	N
17745245	AVALON SAND	-10595	9020	9020	SANDSTONE	NONE	N
17745247	BONE SPRING 1ST	-11075	9500	9500	SANDSTONE	NATURAL GAS, OIL	Y
17745248	BONE SPRING 2ND	-11825	10250	10250	SHALE	NATURAL GAS, OIL	Y
17745250	BONE SPRING 3RD	-12985	11410	11410	SANDSTONE	NATURAL GAS, OIL	Y
17745252	WOLFCAMP	-13405	11830	11830	SHALE	NATURAL GAS, OIL	Y
17745253	WOLFCAMP	-13765	12190	12190	SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

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Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

Pressure Rating (PSI): 10M **Rating Depth:** 22967

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

Requesting Variance? YES

Variance request: See attached.

Testing Procedure: A multi-bowl wellhead will be utilized and will be tested per 43 CFR 3172 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.

Choke Diagram Attachment:

CHOKE_HOSE_M15486_20260107134051.pdf

10M_BOPE_BLM_SUBMISSION_REV.0_20260107134051.pdf

COTERRA_10K_PROD_TREE_20260107134051.pdf

COTERRA_10M_MBU_3T_CFL_10.34_X_7.58_X_5.5_HBE965DQ.1_20260213163303.pdf

BOP Diagram Attachment:

10M_BOP_DIAGRAM_20260107133939.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.75	10.75	NEW	API	N	0	1020	0	1020	3307	2287	1020	J-55	40.5	BUTT	3.58	7.08	BUOY	15.23	BUOY	15.23
2	PRODUCTION	6.75	5.5	NEW	API	N	0	11624	0	11624	3288	-8317	11624	P-110	20	BUTT	1.67	1.86	BUOY	2.92	BUOY	2.92
3	INTERMEDIATE	9.875	7.625	NEW	API	N	0	12373	0	12150	3288	-8843	12373	HCL-80	29.7	BUTT	2.41	1.15	BUOY	1.89	BUOY	1.89
4	PRODUCTION	6.75	5.0	NEW	API	N	11624	22967	11624	12190	-8317	-8883	11343	P-110	18	BUTT	1.93	1.95	BUOY	56.93	BUOY	56.93

Casing Attachments

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 2 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Hallertau_4_Fed__415H_Casing_Assumptions_20260213163526.pdf

CONFIDENTIAL

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

Casing Attachments

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	720	396	1.72	13.5	681	45	Class C	Bentonite
SURFACE	Tail		720	1020	106	1.34	14.8	142	45	Class C	LCM
INTERMEDIATE	Lead		0	11373	983	3.64	10.3	3578	49	Tuned Light	LCM
INTERMEDIATE	Tail		11373	12373	200	1.34	14.8	268	49	Class C	LCM
PRODUCTION	Lead		12173	22967	1470	1.3	14.2	1911	25	50:50 (Poz:H)	Salt + Bentonite + Fluid Loss + Dispersant + SMS

CONFIDENTIAL

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

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
0	1020	OTHER : Fresh water	7.83	8.33							
1020	12373	OTHER : Brine Diesel Emulsion	9	9.5							
12373	22967	OIL-BASED MUD	10.5	11							

Section 6 - Test, Logging, Coring

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

Logs will be run on the 402H.

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

DIRECTIONAL SURVEY,

Coring operation description for the well:

N/A

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6972 **Anticipated Surface Pressure:** 4290

Anticipated Bottom Hole Temperature(F): 190

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_PLAN_REV.0_20260108072231.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

WELL_CONTROL_PLAN_REV.0_20260108072349.pdf

_2_9_2026_8_38_29_PM__Proposal___Coterra_Hallertau_4_Federal_415U_Rev0_kFc_30Jan26_20260213164603.pdf

_2_9_2026_8_38_29_PM__3D_ACSummary_10____Coterra_Hallertau_4_Federal_415U_Rev0_kFc_30Jan26_20260213164603.pdf

Hallertau_4_Fed__415H_Drilling_Plan_New_Mexico_20260213164604.pdf

WP___Coterra_Hallertau_4_Federal_415U_Rev0_kFc_30Jan26_20260316081806.pdf

Proposal_100____Coterra_Hallertau_4_Federal_415U_Rev0_kFc_30Jan26_20260316081806.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

HALLERTAU_4_FEDERAL_COM_E2E2_Rig_Layout_Plat_20260213164636.pdf

Hallertau_4_Fed__415H__Natural_Gas_Plan_20260213164647.pdf

Other Variance request(s)?: Y

Other Variance attachment:

CHOKE_HOSE_M15486_20260108101031.pdf

WELL_CONTROL_PLAN_REV.0_20260213164714.pdf

CONFIDENTIAL

AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

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

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

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

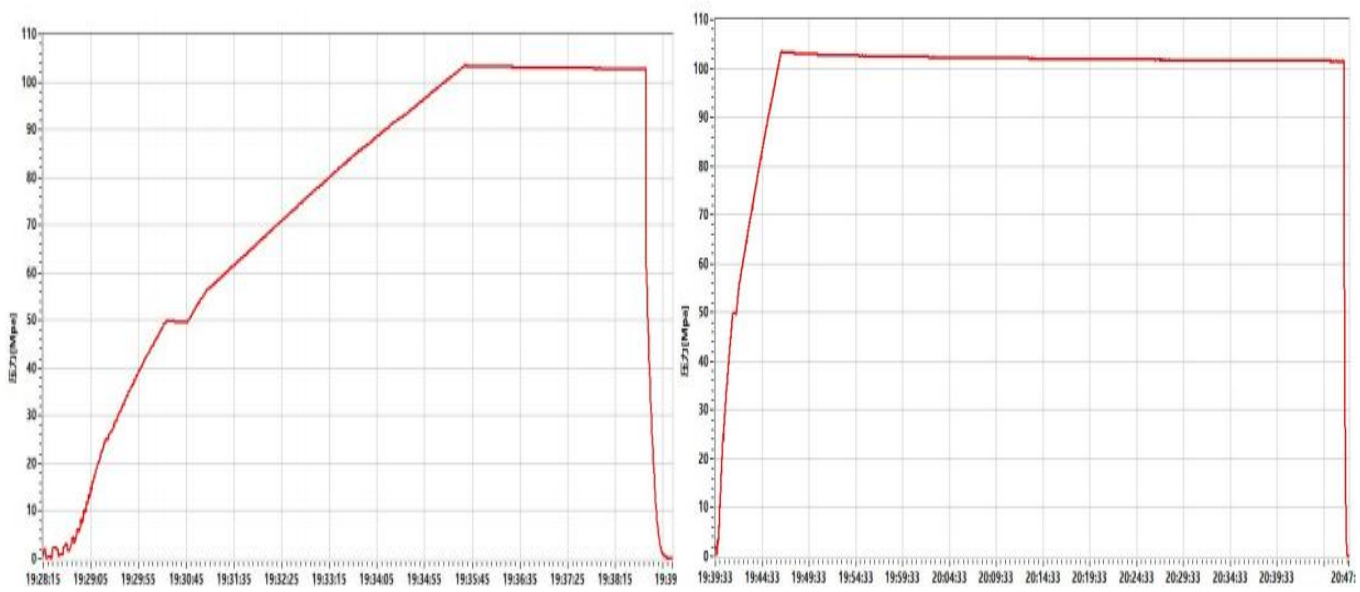
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

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

Graph of pressure testing：



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

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

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

Serial Number：VTC-7660257

customer number：PO890145-001

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

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

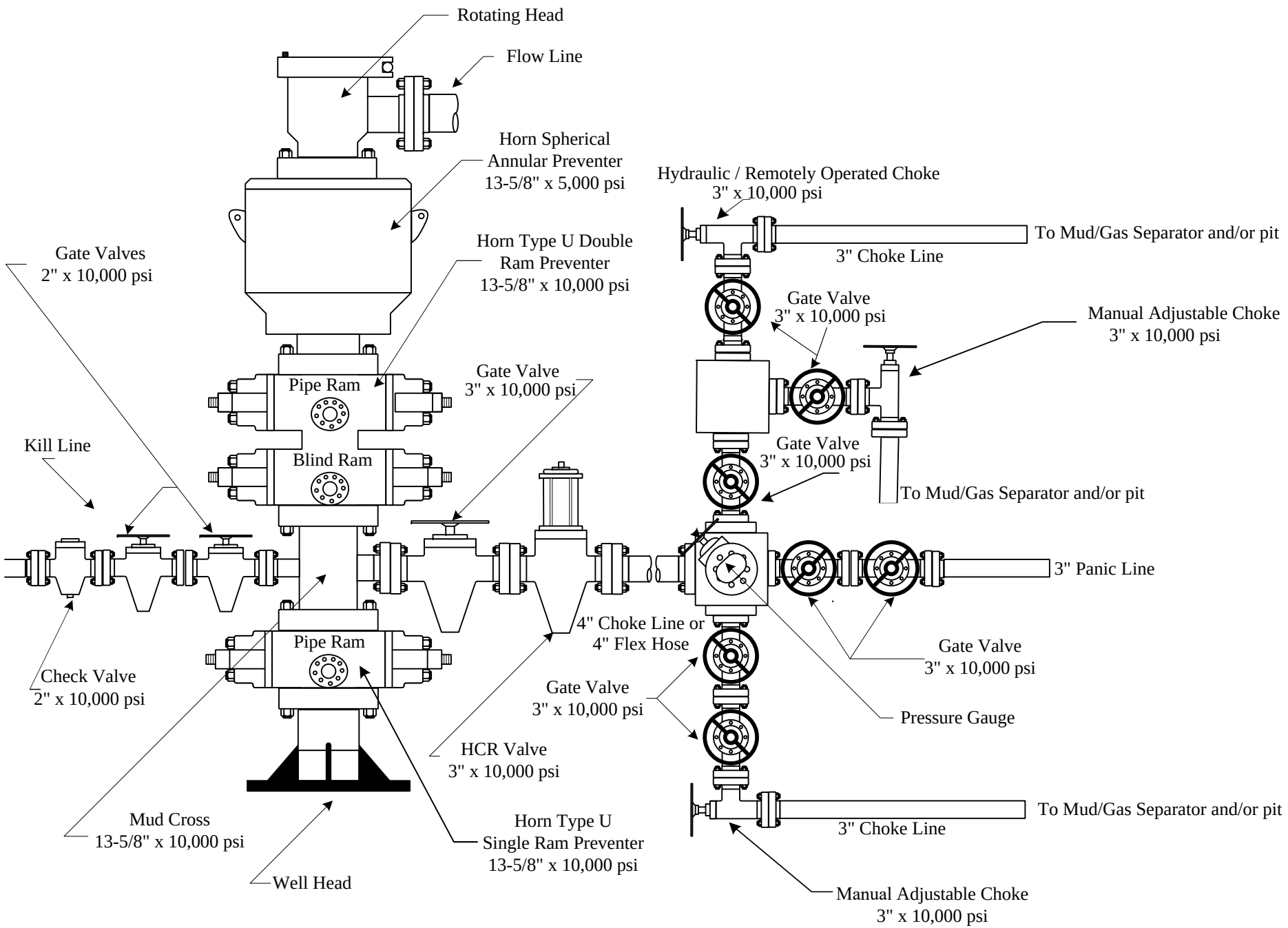
QC Manager： Jane C Date:Sep 3, 2024

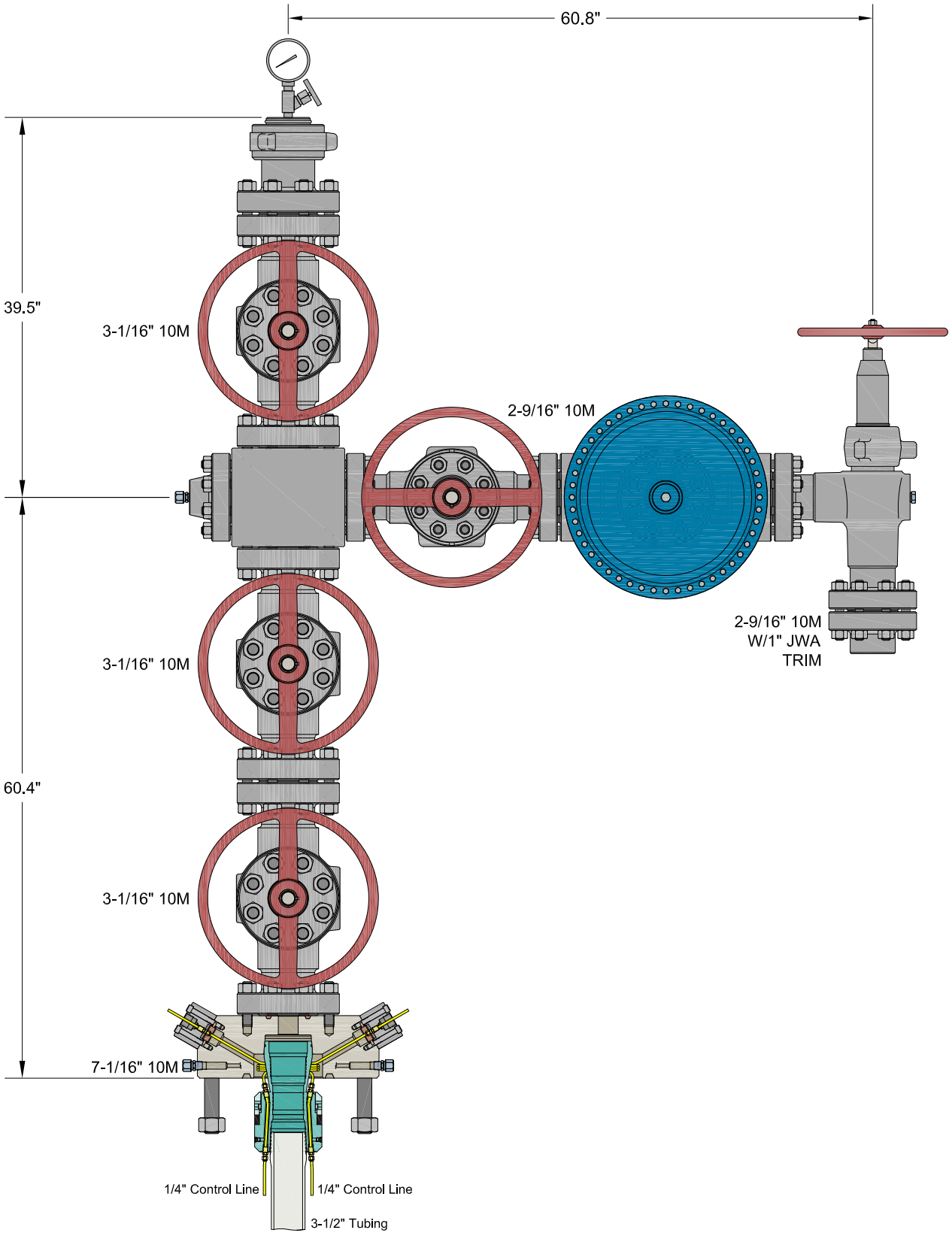
16C-0403

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE

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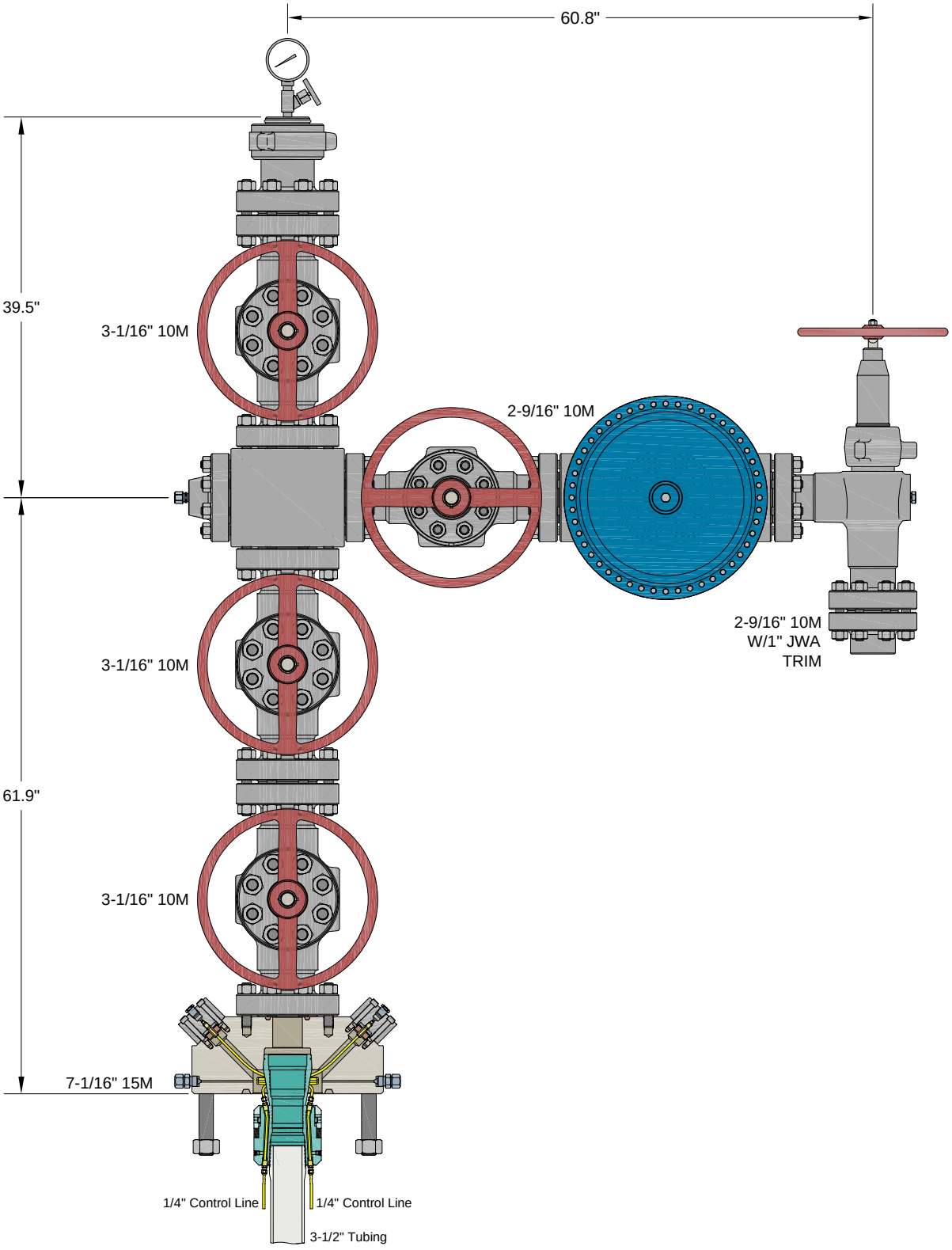
CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

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

DRAWN	VJK	05SEP23
APPRV		

DRAWING NO. HBE0001018



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ALL DIMENSIONS APPROXIMAT

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

Bill To: 7050

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

Ship To: 1016

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

	Quantity	Price	Ext Price

CIMAREX

HOBBS, NM

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

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - $49,338.02

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

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

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

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

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

OPTIONAL 15M ADAPTER

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

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

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

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. **RISK OF LOSS**.

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

material in respect of which such claim is made.

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

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

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

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

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

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

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

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

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

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

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

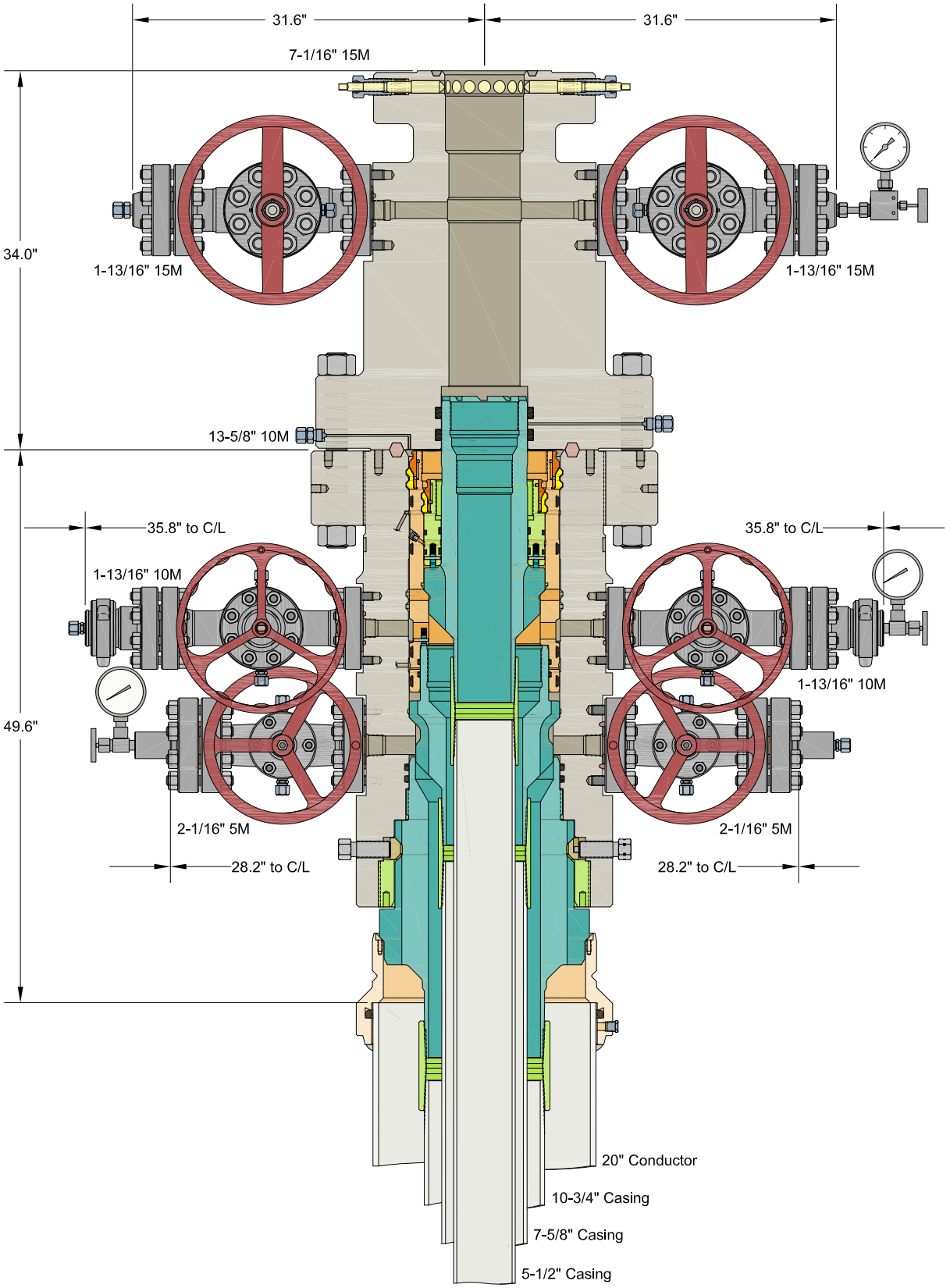
20. **CHOICE OF LAW**. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF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

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

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

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

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



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

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	COTERRA ENERGY INC HOBBS, NM		
20" x 10-3/4" x 7-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO-SF Wellhead With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And 7-5/8" & 5-1/2" Mandrel Casing Hangers	DRAWN	VJK	07JUL23
	APPRV		
	DRAWING NO.	HBE0000965	

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

Bill To: 7035

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

Ship To: 0

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

	Quantity	Price	Ext Price

COTERRA ENERGY INC
DAVID SHAW

HOBBS, NM

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

QUOTATION SUMMARY:

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

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

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

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

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

Cactus

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

		Quantity	Price	Ext Price
	MBU-3T-CFL ASSEMBLY			
1	122079P2	1.00	12,026.00	12,026.00
	HSG,CW,MBU-3T-CFL-R-DBLO-SF,13-3/8,13-5/8 10M,W/TWO 1-13/16 10M FP UPR & TWO 2-1/16 5M FP LWR,W/O 13-5/8 10M THD FLG,6A-PU-AA-2-2			
2	126808P2	0.00	12,168.80	0.00
	HSG,CW,MBU-3T-CFL-R-DBLO-SF,13-3/8,13-5/8 10M,W/TWO 1-13/16 10M FP UPR & TWO 2-1/16 5M FP LWR,W/O 13-5/8 10M THD FLG,TEMP PU,MATL EE,PSL2,PR2			
3	110578	1.00	2,590.00	2,590.00
	FLG,THD,13-5/8 10M W/21.750-2 STUB ACME-2G L.H. BOX THD,31.00 OD,4130 75K & I/T @ -75 DEG F			
4	120455	1.00	2,789.92	2,789.92
	LANDING RING,CW,CTF/MBU-T/3T,20 SOW X 20 SN X 18.13 ID,750K MAX LOAD CAPACITY			
5	130791	1.00	3,990.00	3,990.00
	CSGHGR,CW,MBU-3T-CFL-R,13-3/8,10-3/4 (40.5#) BC PIN BTM X 14.000-2 STUB ACME-2G LEFT HAND PIN TOP,10.040 MIN BORE,4140 110K,TEMP U,MATL AA,PSL2,PR2			
	NOTE: ACCEPTABLE FOR USE WITH 10-3/4 (45.5#) BC J/K-55 CASING			
6	133772	2.00	950.00	1,900.00
	VLV,AOZE,GEN,M-EXP-FB,2-1/16 3/5M FE DD (6A LU DD PSL2 PR1) QPQ TRIM & 4130 STEM			
7	200002	2.00	120.00	240.00
	FLG,COMP,CW,2-1/16 5M X 2 LP,6A-KU-EE-1			
8	BP2T	2.00	42.48	84.96
	BULL PLUG,CW,2 LP X 1/2 NPT,API 6A DD			
9	100048	1.00	59.74	59.74
	FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING			
10	R24	4.00	8.82	35.28
	RING GASKET,R24,2-1/16 3/5M			
11	780067-20E1	16.00	14.70	235.20
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,7/8-9UNC X 6-1/2,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING			
12	107412MV	2.00	2,017.00	4,034.00
	VLV,CW,SB100,1-13/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL2 PR2) QPQ TRIM, API 6A PR2 ANNEX F (BORE VENT HOLE)			
13	122007	2.00	685.00	1,370.00
	ADPT,CW,CFH,1-13/16 10M X 2 FIG 1502 X 1/2 NPT,NACE SVC,TEMP PU, PSL2			
14	100048	1.00	59.74	59.74
	FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING			
15	BX151	4.00	12.77	51.08
	RING GASKET,BX151,1-13/16 10/15/20M			

Cactus

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

			Quantity	Price	Ext Price
16	780080-20E1		16.00	9.13	146.08
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,3/4-10UNC X 5-1/2,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING				
17	NVA		2.00	55.58	111.16
	NEEDLE VALVE,MFA,1/2 10M				
18	PG5M		1.00	58.24	58.24
	PRESSURE GAUGE,5M,4-1/2 FACE,LIQUID FILLED,1/2 NPT				
19	PG10M		1.00	58.24	58.24
	PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT				
20	132804		0.00	8,024.00	0.00
	RISER ADPT,CW,LRA,20.12 DBLO X 20 SOW TOP X 19.5 ID,8.5 LG,W/8 1-8 UNC-2B TAP HOLES,5.00 DEEP PKT W/1/2 ORINGS & 1/2 NPT TEST PORT,300 PSI MAX WP,A/F 20.12 LANDING RING				
	NOTE: THE AFOREMENTIONED ITEM IS A ONE TIME CHARGE PER RIG; PRICE NOT INCLUDED IN THE TOTAL.				
					29,839.64

CASING HANGERS & PACKOFFS

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

RENTAL TOOLS

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

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THD,10.00 MIN BORE

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

PN 104467: COMB TEST PLUG/RET TOOL,CW,13-5/8 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS & SPRING LOADED DOGS

PN 122539: WBUSH,CW,MBU-3T,LWR,13-5/8 X 10. 00 ID X 27.0 LG,W/3/8 UPR ORING & W/O 2.38 GROOVE

PN 121602: RUN TOOL,CW,CSGHGR,TP4,13-5/8 X 7-5/8 BC BOX TOP,10.250-4 STUB ACME-2G RIGHT HAND PIN BTM,MAX LOAD CAPACITY 1000K,MAX TORQUE 18000FT-LBS,SPEC FOR ROTATING CASING STRING

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

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

PN 119451: RUN TOOL,CW,PACKOFF,MBU-3T-UPR,13-5/8 STACK,W/11.250-4 STUB ACME-2G LEFT HAND PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/3/8 BALL BEARINGS

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

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

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

PN 103164: WASH TOOL,CW,CSGHGR,MBU-2LR/MBS2-R (3T),FLUTED,11 X 4-1/2 IF (NC50) BOX TOP THDS,FAB,200 PSI MAX WP

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

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

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

0.00

SAFEDRILL® DRILLING ADAPTER

27	8Q	13 10M X 13 10M CQC ADPT (45D)	0.00	1,700.00	0.00

SAFEDRILL® DRILLING ADAPTER RENTAL PACKAGE = $1,700.00 PER WELL FOR THE FIRST 45 DAYS; $65.00 PER DAY THEREAFTER.

RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:

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

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

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

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

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33	100326	1.00	89.73	89.73
	FTG,GRS,VENTED CAP,9/16 AUTOCLAVE,17-4PH BODY, 316SS VENT CAP,INCONEL X-750 SPRING & TUNGSTEN CARBIDE BALL,20,000 PSI SERVICE			
34	BX151	4.00	12.77	51.08
	RING GASKET,BX151,1-13/16 10/15/20M			
35	105477-20E1	16.00	9.76	156.16
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,7/8-9UNC X 6,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING			
36	BX159	1.00	117.60	117.60
	RING GASKET,BX159,13-5/8 10/15/20M			
37	102825-20E1	20.00	67.63	1,352.60
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,1-7/8-8UN X 17-3/4,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING			
38	106012	1.00	120.00	120.00
	ADPT,AUTOCLAVE,HIGH PRESSURE, 9/16 MALE TO 9/16 MALE,316SS,SOUR SERVICE			
39	810023	1.00	289.00	289.00
	NEEDLE VALVE,2 WAY ANGLE,9/16,20KSI,SOUR SERVICE,W/O COLLARS & GLANDS			
40	PG15M	1.00	199.00	199.00
	PRESSURE GAUGE,15M,9/16 AUTOCLAVE,LIQUID FILLED			
				19,367.17

CONTINGENCY EQUIPMENT

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

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

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

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

Cactus

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Hobbs, NM
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CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. **RISK OF LOSS**.

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

Cactus

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

material in respect of which such claim is made.

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

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

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

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

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

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

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

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

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

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

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

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

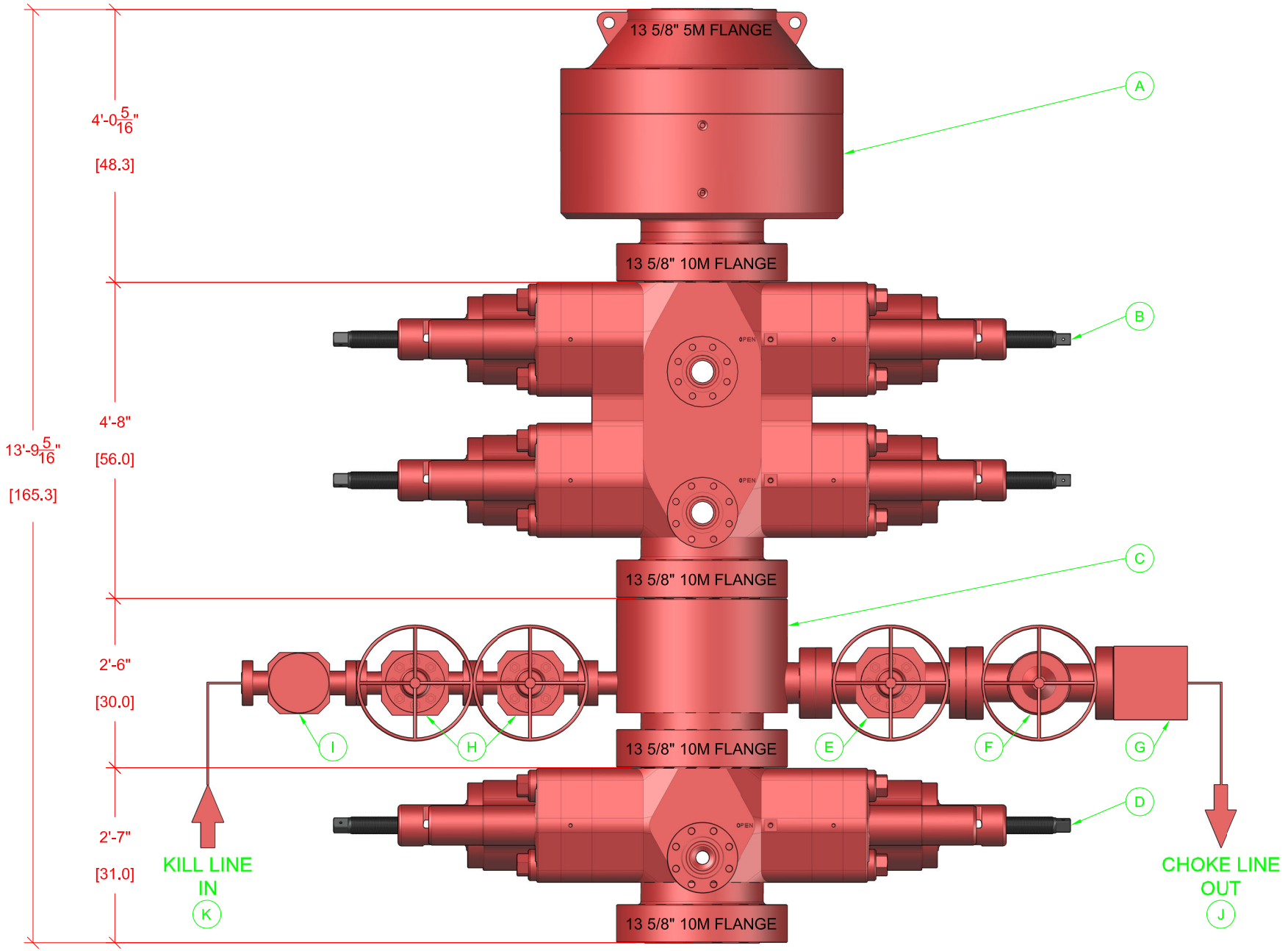
21. **AUTHORITY**. Customer warrants and represents that the individual receiving this order at issue on behalf of Customer has the authority to enter into these CACTUS Purchase Terms on behalf of Customer, and that upon receipt these CACTUS Purchase Terms shall be binding upon Customer.

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

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

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

Page 66 of 159



BOP EQUIPMENT INFORMATION

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

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

Received by OCD: 3/31/2026 7:59:17 AM

Released to Imaging: 4/14/2026 9:25:06 AM

1. Geological Formations

TVD of target 12,190
MD at TD 22,967

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1020	N/A	
Top Salt/Salado	1500	N/A	
Base Salt/Lamar	4530	N/A	
Top Delaware Sands/Bell Canyon	4630	N/A	
Cherry Canyon	5860	N/A	
Brushy Canyon	7070	N/A	
Bone Spring Lime	8610	N/A	
Leonard	8720	N/A	
Avalon Shale	9020	N/A	
1st Bone Spring Sand	9500	N/A	
2nd Bone Spring Sand	10250	N/A	
3rd Bone Spring Sand	11410	N/A	
Wolfcamp	11830	N/A	
Wolfcamp A - Target	12190	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
14 3/4	0	1020	1020	10-3/4"	40.50	J-55	BT&C	3.58	7.08	15.23
9 7/8	0	12373	12150	7-5/8"	29.70	HCL-80	BT&C	2.41	1.15	1.89
6 3/4	0	11624	11624	5-1/2"	20.00	P-110	BT&C	1.67	1.86	2.92
6 3/4	11624	22967	12190	5"	18.00	P-110	BT&C	1.93	1.95	56.93
					BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

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

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

H2S Drilling Operations Plan

Training

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

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

H2S Detection and Alarm Systems

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

Windsock and/or wind streamers

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

Condition Flags & Signs

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

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

Well Control Equipment

1. See the pressure control section of this submission.

Communication

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

Drillstem Testing

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

H2S Contingency Plan

Emergency Procedures

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

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

Ignition of the Gas Source

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

Contacting Authorities

1. Coterra personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours.
2. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Coterra’s response must be in coordination with the State of New Mexico's" Hazardous Materials Emergency Response Plan" (HMER).

Emergency Contacts

Coterra Energy

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

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

Third Party

PERMIAN REGION CONTACT NUMBERS

CALL 911

Air Ambulance Services

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

Fire / Police / Medical Care

Sheriff's Office		Fire Departments		Hospital / Medical Care Facilities	
Andrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200
Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561
Howard County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211
Terry County	806-637-2212	Brownfield	806-637-6633		
Crane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555
Val Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566
		Denver City	806-592-3516	Yoakum County Hospital	806-592-2121
Pecos County	432-336-3521	Ft. Stockton	432-336-8525		
Glasscock County	432-354-2361	Garden City			
Winkler County	432-586-3461	Kermit	432-586-2577	Winkler County Memorial	432-586-5864
		McCamey	432-652-8232	McCamey Hospital	432-652-8626
Loving County	432-377-2411	Mentone			
Irion County	325-835-2551	Mertzon			
Ward County	432-943-6703	Monahans	432-943-2211	Ward Memorial Hospital	432-943-2511
Ector County	432-335-3050	Odessa	432-335-4650	Odessa Regional Hosp.	432-582-8340
Crocket County	325-392-2661	Ozona	325-392-2626		
Reeves County	432-445-4901	Pecos	505-757-6511	Reeves County Hospital	432-447-3551
Yoakum County	806-456-2377	Plains	806-456-2288		
Garza County	806-495-3595	Post			
Upton County	432-693-2422	Rankin			
Coke County	915-453-2717	Robert Lee			
		Roscoe	325-766-3931		
Hockley County	806-894-3126	Levelland	806-894-3155	Covenant Health	806-894-4963
Tom Green County	325-655-8111	San Angelo	325-657-4355	San Angelo Comm. Med.	325-949-9511
Gaines County	432-758-9871	Seminole	432-758-3621	Memorial Hospital	432-758-5811
Terrell County	432-345-2525	Sanderson			
Scurry County	325-573-3551	Snyder	325-573-3546	DM Cogdell Memorial	325-573-6374
Sterling County	325-378-4771	Sterling City			
Nolan County	325-235-5471	Sweetwater	325-235-8130	Rolling Plains Memorial	325-235-1701
Culberson County	432-283-2060	Van Horn		Culberson Hospital	432-283-2760
New Mexico					
Lea County	505-396-3611	Knowles	505-392-7469	Lea Reg Med Ctr	575-492-5000
Eddy County	575-887-7551	Carlsbad	575-885-3125	Carlsbad Medical	575-887-4100
		Artesia	575-746-5050	Artesia Hospital	575-748-3333
Roosevelt County	575-356-4408				
Chaves County	575-624-7590				

Ground Ambulance Services

Reeves County Medical	Pecos, TX	432-447-3551

Well Control Plan

Warning Signs of a Kick

If a kick is ever suspected, perform flow check.

While Drilling:

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

While Tripping:

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

While Out of the Hole:

1. Flow
2. Pit gain

Well Control Procedures with Diverter

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

If rotating head is installed:

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

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

If rotating head is not installed:

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

Well Control Procedures

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

General Well Control

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

Hard Shut-In

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

Flow Check when on Bottom

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

Shutting in while Drilling

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

Flow Check while Tripping

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

Shutting in while Tripping

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

Shutting in while Out of Hole

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

Information to Record while Shut-In

1. Shut in drill pipe pressure every 5 minutes

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

H2S with Annular Diverter:

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

H2S with BOP's:

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

Procedure for Closing Blind Rams

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

Procedure for Opening Blind Rams

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

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

BOP Drills

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

Choke Manifold Freeze Prevention

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

Coterra Hallertau 4 Federal 415U Rev0 kFc 30Jan26 Proposal Geodetic Report

Def Plan

Report Date:	January 30, 2026 - 04:45 PM (UTC 0)	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	COTERRA	**Vertical Section Azimuth:**	180.000 °(GRID North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Coterra - Hallertau 4 Federal Pad (sec 4 lot A) / Hallertau 4 Federal	**TVD Reference Datum:**	RKB
Well:	Hallertau 4 Federal 415U	**TVD Reference Elevation:**	3334.200 ft above MSL
Borehole:	Hallertau 4 Federal 415U	**Seabed / Ground Elevation:**	3307.700 ft above MSL
UBHI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.101°
Survey Name:	Coterra Hallertau 4 Federal 415U Rev0 kFc 30Jan26	**Total Gravity Field Strength:**	998.4266mgn (9.80665 Based)
Survey Date:	January 29, 2026	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	281.999 ° / 11526.799 ft / 6.787 / 0.946	**Total Magnetic Field Strength:**	47024.813 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.499°
Location Lat / Long:	32°4'44.70793"N , 103°40'30.70849"W	**Declination Date:**	January 30, 2026
Location Grid N/E Y/X:	N 393130.280 ftUS , E 745178.630 ftUS	**Magnetic Declination Model:**	HDGM 2025
CRS Grid Convergence Angle:	0.35°	**North Reference:**	Grid North
Grid Scale Factor:	0.99995668(Applied)	**Grid Convergence Used:**	0.35°
Version / Patch:	2025.1.0.1	**Total Corr Mag North->Grid North:**	5.752°
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [207'FNL, 1149'FEL]	0.00	0.00	0.00	0.00	-3,334.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680			
Nudge, Build 2°/100ft	2,000.00	0.00	281.55	2,000.00	-1,334.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
Hold	2,299.89	6.00	281.55	2,299.35	-1,034.85	-3.14	3.14	-15.36	393,133.42	745,163.27	32.07909442	-103.67524634	2.00	2.00	0.00
Drop 2°/100ft	6,903.93	6.00	281.55	6,878.17	3,543.97	-99.45	99.45	-486.71	393,229.72	744,691.94	32.07936703	-103.67676611	0.00	0.00	0.00
Hold	7,203.82	0.00	281.55	7,177.52	3,843.32	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	2.00	-2.00	0.00
KOP, Build 10°/100ft	11,623.82	0.00	281.55	11,597.52	8,263.32	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
Build 5°/100ft	12,373.82	75.00	179.46	12,150.95	8,816.75	322.06	-322.06	-498.07	392,808.23	744,680.58	32.07820864	-103.67681107	10.00	10.00	0.00
Landing Point	12,673.82	90.00	179.46	12,190.00	8,855.80	618.63	-618.63	-495.28	392,511.67	744,683.38	32.07739341	-103.67680788	5.00	5.00	0.00
	12,773.82	90.00	179.46	12,190.00	8,855.80	718.63	-718.63	-494.33	392,411.68	744,684.32	32.07711854	-103.67680680	0.00	0.00	0.00
	12,773.83	90.00	179.46	12,190.00	8,855.80	718.64	-718.64	-494.33	392,411.67	744,684.32	32.07711852	-103.67680680	2.00	0.15	1.99
TP1, Turn 8.7°/100ft	16,424.22	90.00	179.46	12,190.00	8,855.80	4,368.87	-4,368.87	-459.94	388,761.61	744,718.71	32.06708468	-103.67676748	0.00	0.00	0.00
Hold	17,458.70	90.00	89.46	12,190.00	8,855.80	5,021.21	-5,021.21	204.81	388,109.30	745,383.43	32.06528048	-103.67463457	8.70	0.00	-8.70
TP2, Turn 8.7°/100ft	17,461.20	90.00	89.46	12,190.00	8,855.80	5,021.18	-5,021.18	207.31	388,109.32	745,385.93	32.06528050	-103.67462650	0.00	0.00	0.00
TP3, Hold	18,495.69	90.00	359.46	12,190.00	8,855.80	4,356.43	-4,356.43	859.64	388,774.04	746,038.24	32.06709672	-103.67250771	8.70	0.00	-8.70
	18,495.81	90.00	359.46	12,190.00	8,855.80	4,356.31	-4,356.31	859.64	388,774.17	746,038.23	32.06709705	-103.67250771	2.00	0.00	2.00
Hallertau 4 Federal 415U - BHL [100'FNL, 330'FEL]	22,966.92	90.00	359.46	12,190.00	8,855.80	-114.61	114.61	817.70	393,244.88	745,996.29	32.07938681	-103.67255473	0.00	0.00	0.00

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 5 *** 3-D 95 % Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	11,600.000	1/100.000	.5 – 12.25 – 8.75	75 – 9.625 – 8.75		A001Mc_MWD+SRGM_r5		Hallertau 4 Federal 415U / Coterra Hallertau 4 Fe
	1	11,600.000	22,966.922	1/100.000	8.75	8.75		A008Mc_MWD+IFR1+MS_r5		Hallertau 4 Federal 415U / Coterra Hallertau 4 Fe

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
949.900	17.500	13.375	
4,773.991	12.250	9.625	
22,966.922	8.750		

Coterra Hallertau 4 Federal 415U Rev0 kFc 30Jan26 Anti-Collision Summary Report

Analysis Date-24hr Time:	January 30, 2026 - 04:48 PM (UTC 0)	**Analysis Method:**	3D Least Distance
Client:	COTERRA	**Reference Trajectory:**	Plan)
Field:	NM Lea County (NAD 83)	**Depth Interval:**	Every 10.00 Measured Depth (ft)
Structure:	Coterra - Hallertau 4 Federal Pad (sec 4 lot A)	**Rule Set:**	NAL Procedure: D&M AntiCollision Standard S002
Slot:	Hallertau 4 Federal 415U	**Min Pts:**	Absolute minima indicated.
Well:	Hallertau 4 Federal 415U	**Engine Version:**	2025.1.0.1
Borehole:	Hallertau 4 Federal 415U	**Database \ Project:**	Hallertau 4 Federal 415U–COTERRA
Scan MD Range:	0.00ft ~ 22966.92ft		

Trajectory Error Model: ISCWSA Rev 5 *** 3-D 95 % Confidence 2.7955 sigma

Offset Trajectories Summary

Offset Selection Criteria

Bounding box scan: minimum Ct-Ct separation <= 2000ft

Selection filters: Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans - All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

7 out of 9 are selected

Offset Trajectory	Separation			Allow	Sep.	Breaking	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	
Results highlighted in red: Sep-Factor <= 1.5												
Result highlighted in boxed, red and bold: all local minima indicated.												
30-025-44604 - Red Hills West Unit 021H - MWD to 22290ft - A (DefinitiveSurvey) - **Fail Major**												
10495.95	32.81	10492.56	10463.14	7419.56			0.00	0.00				Surface
10495.68	32.81	10492.29	10462.87	7416.13			26.50	26.50				WRP
10495.08	32.81	10489.45	**10462.27**	2873.63			240.00	240.00				MinPts
10495.62	32.81	**10488.81**	10462.81	2172.48			370.00	370.00				MinPt-EOU
1682.72	507.79	1343.65	1174.92	4.98	OSF 5.00		11370.00	11343.70	OSF<=5.00			Enter Alert
1512.36	527.01	1160.48	985.35	**4.31**	OSF 5.00		12010.00	11955.12				MinPt-SF
1508.07	524.55	1157.83	**983.52**	4.32	OSF 5.00		12090.00	12013.94				MinPt-ADP
1507.48	523.81	**1157.74**	983.67	4.33	OSF 5.00		12110.00	12027.42				MinPt-EOU
1506.69	520.83	1158.93	985.86	4.35	OSF 5.00		12180.00	12070.38				MinPt-CtCt
1513.33	482.46	1191.16	**1030.87**	4.72	OSF 5.00		12840.00	12190.00				MinPt-ADP
1511.82	480.70	**1190.81**	1031.12	4.73	OSF 5.00		12900.00	12190.00				MinPt-EOU
1505.18	467.58	**1192.92**	1037.60	4.84	OSF 5.00		13210.00	12190.00				MinPt-EOU
1504.31	464.91	1193.83	1039.40	4.87	OSF 5.00		13310.00	12190.00				MinPt-CtCt
1504.16	455.57	1199.91	1048.59	4.96	OSF 5.00		13520.00	12190.00				MinPt-CtCt
1505.67	453.01	1203.13	1052.66	5.00	OSF 5.00		13630.00	12190.00	OSF>5.00			Exit Alert
1506.68	435.88	1215.56	1070.81	5.20			13950.00	12190.00				MinPt-CtCt
1514.28	376.44	1262.78	**1137.84**	6.05			15320.00	12190.00				MinPt-ADP
1512.66	374.50	**1262.46**	1138.16	6.08			15390.00	12190.00				MinPt-EOU
1509.62	369.17	1262.97	**1140.45**	6.15			15520.00	12190.00				MinPt-ADP
1508.91	368.34	**1262.82**	1140.58	6.17			15560.00	12190.00				MinPt-EOU
1506.54	358.51	1267.00	1148.03	6.33			15850.00	12190.00				MinPt-CtCt
1502.16	341.67	**1273.85**	**1160.49**	6.62			16290.00	12190.00				MinPts
1502.08	341.49	1273.88	1160.59	6.62			16310.00	12190.00				MinPt-CtCt
1496.35	337.67	1270.70	1158.68	**6.67**			16560.00	12190.00				MinPt-SF
1479.58	334.52	1256.03	1145.06	**6.66**			16640.00	12190.00				MinPt-SF
1038.69	314.67	828.38	724.03	4.97	OSF 5.00		17270.00	12190.00	OSF<=5.00			Enter Alert
306.04	308.87	99.59	-2.83	1.49	OSF 1.50		18130.00	12190.00		OSF<=1.50		Enter Minor
205.56	308.03	-0.33	-102.47	1.00	OSF 1.00		18510.00	12190.00			OSF<=1.00	Enter Major
203.44	310.16	-3.87	-106.72	0.98	OSF 1.00		18608.67	12190.00				MinPt-CtCt
207.59	328.71	-12.09	-121.12	0.94	OSF 1.00		19080.00	12190.00				MinPt-CtCt
210.17	339.70	-16.84	-129.54	**0.93**	OSF 1.00		19370.00	12190.00				MinPt-SF
210.38	340.04	**-16.85**	-129.66	0.93	OSF 1.00		19380.00	12190.00				MinPt-EOU
214.99	349.27	-18.39	-134.28	**0.92**	OSF 1.00		19590.00	12190.00				MinPt-SF
215.26	349.69	**-18.41**	-134.43	0.92	OSF 1.00		19600.00	12190.00				MinPt-EOU
219.06	354.14	-17.57	**-135.08**	0.93	OSF 1.00		19700.00	12190.00				MinPt-ADP
228.26	364.87	-15.53	-136.61	**0.94**	OSF 1.00		19880.00	12190.00				MinPt-SF
228.53	365.29	**-15.53**	-136.76	0.94	OSF 1.00		19890.00	12190.00				MinPt-EOU
229.72	366.77	-15.33	**-137.05**	0.94	OSF 1.00		19930.00	12190.00				MinPt-ADP
244.59	366.13	-0.04	-121.55	1.00	OSF 1.00		20230.00	12190.00			OSF>1.00	Exit Major
246.36	369.23	-0.34	-122.88	1.00	OSF 1.00		20340.00	12190.00			OSF<=1.00	Enter Major
206.81	422.02	-75.07	-215.20	0.73	OSF 1.00		21410.00	12190.00				MinPt-CtCt
207.52	430.49	-80.01	-222.96	**0.72**	OSF 1.00		21630.00	12190.00				MinPt-SF
207.65	430.73	**-80.04**	-223.08	0.72	OSF 1.00		21640.00	12190.00				MinPt-EOU
207.99	431.17	-79.99	**-223.18**	0.72	OSF 1.00		21660.00	12190.00				MinPt-ADP
213.82	485.38	-110.31	-271.56	0.66	OSF 1.00		22850.00	12190.00				MinPt-CtCt
214.32	487.85	-111.45	-273.53	**0.66**	OSF 1.00		22900.00	12190.00				MinPt-SF
214.82	488.71	**-111.52**	-273.89	0.66	OSF 1.00		22920.00	12190.00				MinPt-EOU
216.39	491.22	**-111.63**	**-274.83**	0.66	OSF 1.00		22966.92	12190.00				MinPts
Coterra Hallertau 4 Federal 405U Rev0 kFc 30Jan26 (DefinitivePlan) - **Fail Minor**												
20.00	16.40	16.72	3.60	9.36	CtCt 15.00m		0.00	0.00	CtCt<=15.00m			Enter Alert
20.00	16.40	16.71	3.60	9.36	CtCt 15.00m		26.50	26.50				WRP
20.00	16.40	**8.87**	3.60	**1.90**	OSF 5.00		890.00	890.00				MinPts
20.00	20.03	6.32	-0.03	1.50	OSF 1.50		1410.00	1410.00		OSF<=1.50		Enter Minor
20.00	21.41	5.40	-1.41	1.40	OSF 1.50		1600.00	1600.00				MinPt-CtCt
20.07	21.59	**5.35**	-1.52	**1.39**	OSF 1.50		1620.00	1620.00				MinPts
20.15	21.68	5.37	**-1.52**	1.39	OSF 1.50		1630.00	1630.00				MinPt-ADP
22.08	22.38	6.83	-0.30	1.48	OSF 1.50		1710.00	1710.00		OSF>1.50		Exit Minor
92.98	28.66	73.54	64.31	4.99	OSF 5.00		2390.00	2388.96	OSF>5.00			Exit Alert
473.97	112.45	398.67	361.51	6.36			11390.00	11363.70				MinPt-CtCt
473.98	112.51	**398.65**	**361.47**	6.36			11410.00	11383.70				MinPts
474.32	112.64	398.90	361.68	**6.36**			11450.00	11423.70				MinPt-SF
697.07	170.79	**582.88**	**526.28**	**6.15**			13230.00	12190.00				MinPts
696.95	193.17	**567.84**	**503.78**	**5.43**			16410.00	12190.00				MinPts
458.35	140.93	364.07	317.42	4.90	OSF 5.00		16680.00	12190.00	OSF<=5.00			Enter Alert

Offset Trajectory	Separation			Allow	Sep.	Breaking	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	
	224.70	217.56	79.33	7.14	1.55	OSF 5.00	17110.00	12190.00				MinPt-CtCt
	224.89	218.03	**79.21**	**6.86**	**1.55**	OSF 5.00	17120.00	12190.00				MinPts
	697.12	211.60	**555.72**	**485.52**	**4.96**	OSF 5.00	18500.00	12190.00				MinPts
	697.12	209.84	556.89	487.27	5.00	OSF 5.00	18890.00	12190.00	OSF>5.00			Exit Alert
	697.12	209.84	556.89	487.27	5.00	OSF 5.00	20330.00	12190.00	OSF<=5.00			Enter Alert
	697.11	234.95	**540.15**	**462.16**	**4.46**	OSF 5.00	22966.92	12190.00				MinPts
30-025-24007 - Union Federal 002 - Inc Only to 4620ft - P&A (DefinitiveSurvey) - **Warning Alert**												
	921.50	32.81	918.11	888.69	650.15		0.00	0.00				Surface
	921.42	32.81	917.79	888.61	556.61		26.50	26.50				WRP
	814.26	246.19	649.55	568.07	4.99	OSF 5.00	3560.00	3552.55	OSF<=5.00			Enter Alert
	740.13	344.29	510.02	395.84	**3.23**	OSF 5.00	4670.00	4656.48				MinPt-SF
	739.91	344.11	**509.92**	**395.80**	3.23	OSF 5.00	4680.00	4666.42				MinPts
	739.83	343.84	510.01	395.99	3.24	OSF 5.00	4691.23	4677.59				MinPt-CtCt
	897.88	272.88	715.43	625.00	4.96	OSF 5.00	5200.00	5183.58	OSF>5.00			Exit Alert
	7526.89	89.40	7466.75	7437.49	**128.59**		12373.82	12150.95				MinPt-SF
	7732.78	266.34	7554.68	7466.44	43.81		22430.00	12190.00				MinPt-CtCt
	7733.60	268.77	**7553.89**	7464.84	43.41		22540.00	12190.00				MinPt-EOU
	7734.71	270.11	7554.10	**7464.60**	43.20		22600.00	12190.00				MinPt-ADP
	7751.59	278.60	7565.32	7472.99	**41.97**		22966.92	12190.00				MinPt-SF
30-025-40476 - Cimarex Hallertau 4 Federal 7H Gyro+MWD 0ft to 15169ft MD - A (DefinitiveSurvey) - **Pass**												
	515.09	32.81	511.70	482.28	362.81		0.00	0.00				Surface
	515.02	32.81	511.62	482.21	362.69		26.50	26.50				WRP
	514.25	32.81	507.60	**481.45**	109.51		270.00	270.00				MinPts
	515.49	32.81	**506.58**	482.68	74.09		500.00	500.00				MinPt-EOU
	516.06	32.81	505.22	**483.25**	58.03		760.00	760.00				MinPts
	516.35	32.81	**504.68**	483.54	53.10		890.00	890.00				MinPt-EOU
	516.89	32.81	503.68	**484.08**	44.98		1200.00	1200.00				MinPts
	191.11	50.22	157.10	140.89	5.85		6468.43	6445.07				MinPt-CtCt
	191.29	50.70	**156.95**	140.59	5.80		6550.00	6526.19				MinPt-EOU
	191.52	50.98	156.99	**140.54**	5.77		6590.00	6565.97				MinPt-ADP
	206.21	56.92	167.73	149.29	**5.55**		7200.00	7173.70				MinPt-SF
	207.10	57.23	168.41	149.88	**5.54**		7270.00	7243.70				MinPt-SF
	227.02	62.28	184.96	164.74	**5.57**		8480.00	8453.70				MinPt-SF
	229.84	65.19	185.84	164.65	5.38		9460.00	9433.70				MinPt-CtCt
	229.85	65.22	**185.83**	164.63	5.38		9470.00	9443.70				MinPt-EOU
	229.87	65.24	185.84	**164.63**	5.38		9480.00	9453.70				MinPt-ADP
	230.02	65.30	185.95	164.72	**5.38**		9510.00	9483.70				MinPt-SF
	231.12	65.66	186.80	165.45	**5.37**		9600.00	9573.70				MinPt-SF
	233.86	66.51	188.98	167.35	**5.37**		9770.00	9743.70				MinPt-SF
	237.94	67.57	192.35	170.37	**5.37**		10000.00	9973.70				MinPt-SF
	239.63	68.18	193.64	171.45	**5.36**		10190.00	10163.70				MinPt-SF
	1441.25	106.01	1370.04	1335.24	**20.68**		12300.00	12127.32				MinPt-SF
	1451.85	106.89	1380.04	1344.95	**20.66**		12373.82	12150.95				MinPt-SF
	1465.80	109.41	1392.32	1356.39	20.37		12750.00	12190.00				MinPt-CtCt
	1465.82	109.46	**1392.31**	1356.36	20.37		12760.00	12190.00				MinPt-EOU
	1465.86	109.51	1392.32	**1356.35**	20.36		12770.00	12190.00				MinPt-ADP
	1493.28	139.59	1399.69	1353.70	16.22		14800.00	12190.00				MinPt-CtCt
	1491.96	147.58	1393.04	1344.38	15.32		15160.00	12190.00				MinPt-CtCt
	1493.09	151.58	**1391.49**	1341.50	14.92		15340.00	12190.00				MinPt-EOU
	1493.81	152.45	1391.64	**1341.36**	14.84		15380.00	12190.00				MinPt-ADP
	1472.38	188.43	1346.22	1283.95	11.81		16770.00	12190.00				MinPt-CtCt
	1472.91	190.45	**1345.41**	1282.46	11.69		16840.00	12190.00				MinPt-EOU
	1473.12	190.73	1345.43	**1282.39**	11.67		16850.00	12190.00				MinPt-ADP
	1614.77	212.79	1472.37	1401.98	**11.46**		17458.70	12190.00				MinPt-SF
	2018.67	215.07	**1874.75**	**1803.60**	14.17		19670.00	12190.00				MinPts
	2002.99	212.69	1860.66	1790.30	**14.22**		19950.00	12190.00				MinPt-SF
	2000.62	211.67	**1858.97**	**1788.95**	14.28		20010.00	12190.00				MinPts
	1974.77	212.37	1832.65	1762.40	14.04		20560.00	12190.00				MinPt-CtCt
	1974.82	212.49	**1832.63**	1762.33	14.04		20580.00	12190.00				MinPt-EOU
	1974.88	212.55	1832.64	**1762.33**	14.03		20590.00	12190.00				MinPt-ADP
	1978.27	213.34	1835.50	1764.93	**14.00**		20750.00	12190.00				MinPt-SF
	1984.66	213.17	1842.01	1771.50	**14.06**		21020.00	12190.00				MinPt-SF
	1991.66	213.67	1848.67	1777.98	**14.08**		21320.00	12190.00				MinPt-SF
	1985.47	218.31	1839.39	1767.16	**13.73**		22150.00	12190.00				MinPt-SF
	1984.50	219.65	1837.53	1764.85	13.64		22240.00	12190.00				MinPt-CtCt
	1984.70	220.36	**1837.26**	1764.34	13.60		22280.00	12190.00				MinPt-EOU
	1984.99	220.72	1837.30	**1764.26**	13.58		22300.00	12190.00				MinPt-ADP
	2001.99	224.58	1851.73	1777.41	**13.46**		22550.00	12190.00				MinPt-SF
	2084.22	227.60	1931.95	1856.62	13.82		22966.92	12190.00				TD
30-025-40474 - Cimarex Hallertau 4 Federal 3H Gyro+MWD 0ft to 13948ft - A (DefinitiveSurvey) - **Pass**												
	1037.38	32.81	1033.99	1004.57	732.05		0.00	0.00				Surface
	1037.33	32.81	1033.94	1004.52	731.98		26.50	26.50				WRP
	493.04	83.47	436.86	409.57	9.01		8040.00	8013.70				MinPt-CtCt
	487.83	86.66	429.52	401.17	**8.58**		8960.00	8933.70				MinPt-SF
	480.99	82.92	**425.18**	**398.08**	8.84		9200.00	9173.70				MinPts
	480.88	82.66	425.23	398.22	8.87		9215.40	9189.10				MinPt-CtCt
	2730.08	101.17	2662.09	2628.91	**41.11**		12373.82	12150.95				MinPt-SF
	2744.24	104.43	2674.08	2639.81	40.01		12890.00	12190.00				MinPt-CtCt
	2744.72	106.72	2673.03	2637.99	39.15		13120.00	12190.00				MinPt-CtCt
	2744.51	109.49	2670.98	2635.02	38.14		13350.00	12190.00				MinPt-CtCt
	2744.77	112.55	2669.19	2632.21	37.09		13570.00	12190.00				MinPt-CtCt
	2747.66	120.59	**2666.73**	2627.07	34.62		14060.00	12190.00				MinPt-EOU
	2748.19	121.21	2666.84	**2626.98**	34.45		14100.00	12190.00				MinPt-ADP
	2751.17	128.88	2664.72	2622.29	32.41		14470.00	12190.00				MinPt-CtCt
	2752.05	134.20	2662.04	2617.85	31.12		14720.00	12190.00				MinPt-CtCt
	2746.64	148.80	2646.90	2597.84	27.97		15350.00	12190.00				MinPt-CtCt
	2720.72	181.71	2599.05	2539.02	22.65		16600.00	12190.00				MinPt-CtCt
	2721.15	183.10	**2598.55**	2538.06	22.48		16660.00	12190.00				MinPt-EOU
	2723.38	188.11	**2597.44**	2535.28	21.89		16810.00	12190.00				MinPt-EOU

Offset Trajectory	Separation			Allow	Sep.	Breaking	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	
	2723.58	188.36	2597.47	**2535.23**	21.86		16820.00	12190.00				MinPt-ADP
	3031.09	237.49	2872.23	2793.60	**19.27**		18220.00	12190.00				MinPt-SF
	3108.93	221.44	2960.76	2887.49	**21.20**		19350.00	12190.00				MinPt-SF
	3117.41	221.07	2969.49	2896.34	**21.30**		19530.00	12190.00				MinPt-SF
	3120.84	219.73	2973.81	2901.11	**21.45**		19740.00	12190.00				MinPt-SF
	3123.26	219.90	2976.13	2903.37	**21.45**		19830.00	12190.00				MinPt-SF
	3125.79	219.49	2978.93	2906.30	**21.51**		19970.00	12190.00				MinPt-SF
	3125.81	219.58	2978.89	2906.23	21.50		20180.00	12190.00				MinPt-CtCt
	3125.91	219.98	**2978.71**	2905.92	21.46		20230.00	12190.00				MinPt-EOU
	3125.95	220.03	2978.72	**2905.92**	**21.46**		20240.00	12190.00				MinPts
	3123.79	221.65	**2975.48**	**2902.14**	**21.28**		20580.00	12190.00				MinPts
	3110.29	228.47	2957.44	2881.82	20.56		21280.00	12190.00				MinPt-CtCt
	3110.65	229.66	**2957.01**	2881.00	20.45		21360.00	12190.00				MinPt-EOU
	3111.12	230.24	2957.09	**2880.88**	20.40		21400.00	12190.00				MinPt-ADP
	3117.35	234.21	2960.67	2883.14	**20.09**		21720.00	12190.00				MinPt-SF
	3117.37	238.27	2957.98	2879.10	19.75		22030.00	12190.00				MinPt-CtCt
	3117.89	239.77	**2957.50**	2878.12	19.63		22110.00	12190.00				MinPt-EOU
	3118.36	240.32	2957.60	**2878.04**	19.59		22140.00	12190.00				MinPt-ADP
	3166.85	249.95	2999.68	2916.90	**19.12**		22730.00	12190.00				MinPt-SF
	3211.72	252.46	3042.88	2959.26	19.20		22966.92	12190.00				TD
30-025-40477 - Hallertau 4 Federal 008H - MWD to 15202ft - A (DefinitiveSurvey) - **Pass**												
	651.14	32.81	647.75	618.33	458.95		0.00	0.00				Surface
	651.12	32.81	647.73	618.32	458.45		26.50	26.50				WRP
	650.89	32.81	644.47	**618.09**	146.05		250.00	250.00				MinPts
	651.41	32.81	**639.73**	618.61	66.93		890.00	890.00				MinPt-EOU
	639.42	32.81	621.94	**606.61**	40.57		2020.58	2020.58				MinPts
	639.47	32.81	**621.89**	606.66	40.30		2040.00	2040.00				MinPt-EOU
	1150.54	78.40	1097.74	1072.14	22.45		7750.00	7723.70				MinPt-CtCt
	1150.50	78.75	1097.47	1071.76	22.34		7920.00	7893.70				MinPt-CtCt
	1140.31	82.52	1084.76	1057.80	21.11		9260.00	9233.70				MinPt-CtCt
	1140.31	82.53	**1084.75**	**1057.78**	21.11		9270.00	9243.70				MinPts
	1141.22	82.75	1085.51	1058.46	**21.07**		9520.00	9493.70				MinPt-SF
	1138.86	84.82	1081.77	1054.04	20.50		10430.00	10403.70				MinPt-CtCt
	1138.86	84.84	**1081.76**	**1054.02**	20.50		10440.00	10413.70				MinPts
	1139.41	84.91	1082.26	1054.50	**20.49**		10480.00	10453.70				MinPt-SF
	1829.77	99.00	1763.23	1730.77	**28.16**		12373.82	12150.95				MinPt-SF
	1836.09	103.31	1766.68	1732.78	27.06		12920.00	12190.00				MinPt-CtCt
	1836.35	110.45	1762.18	1725.90	25.29		13380.00	12190.00				MinPt-CtCt
	1836.92	113.07	**1761.00**	1723.85	24.70		13530.00	12190.00				MinPt-EOU
	1837.49	113.74	1761.13	**1723.75**	24.56		13570.00	12190.00				MinPt-ADP
	1845.13	126.38	1760.33	1718.75	22.16		14080.00	12190.00				MinPt-CtCt
	1850.95	143.57	**1754.69**	1707.38	19.54		14710.00	12190.00				MinPt-EOU
	1852.02	144.86	1754.91	**1707.16**	19.38		14760.00	12190.00				MinPt-ADP
	1854.39	188.17	1728.41	1666.22	14.90		16010.00	12190.00				MinPt-CtCt
	1466.99	208.45	1327.48	1258.54	10.63		18000.00	12190.00				MinPt-CtCt
	1467.16	208.92	**1327.34**	1258.24	10.60		18020.00	12190.00				MinPt-EOU
	1467.35	209.16	1327.37	**1258.19**	10.59		18030.00	12190.00				MinPt-ADP
	1476.32	211.84	1334.56	1264.48	**10.52**		18180.00	12190.00				MinPt-SF
	1492.17	214.36	1348.72	1277.80	**10.51**		18530.00	12190.00				MinPt-SF
	1483.04	216.64	1338.08	1266.41	10.33		19000.00	12190.00				MinPt-CtCt
	1483.19	217.11	**1337.91**	1266.07	10.31		19050.00	12190.00				MinPt-EOU
	1483.34	217.30	1337.93	**1266.04**	10.30		19070.00	12190.00				MinPt-ADP
	1488.00	222.88	1338.88	1265.13	10.08		19710.00	12190.00				MinPt-CtCt
	1481.37	238.13	1322.08	1243.24	9.38		20890.00	12190.00				MinPt-CtCt
	1477.16	246.81	1312.08	1230.35	9.03		21430.00	12190.00				MinPt-CtCt
	1477.35	251.72	1309.00	1225.63	8.85		21710.00	12190.00				MinPt-CtCt
	1475.22	258.44	1302.39	1216.78	8.61		22070.00	12190.00				MinPt-CtCt
	1475.60	259.54	**1302.04**	1216.06	8.57		22120.00	12190.00				MinPt-EOU
	1476.16	260.19	1302.17	**1215.98**	8.55		22150.00	12190.00				MinPt-ADP
	1493.44	266.50	1315.24	1226.94	**8.45**		22470.00	12190.00				MinPt-SF
	1598.80	267.03	1420.24	1331.77	9.03		22966.92	12190.00				TD
30-025-41878 - Cimarex Hallertau 4 Federal 9H XEM + MWD 0ft to 13863ft - A (DefinitiveSurvey) - **Pass**												
	1425.46	32.81	1422.06	1392.65	1006.40		0.00	0.00				Surface
	1425.42	32.81	**1422.03**	**1392.61**	**1006.35**		10.00	10.00				MinPts
	1425.42	32.81	1422.03	1392.62	1006.35		26.50	26.50				WRP
	1427.94	32.81	1416.63	**1395.13**	152.85		710.00	710.00				MinPts
	1428.55	32.81	**1416.21**	1395.74	137.67		890.00	890.00				MinPt-EOU
	1430.22	32.81	**1415.77**	1397.42	112.58		1230.00	1230.00				MinPt-EOU
	884.13	76.54	832.56	807.59	17.67		7179.18	7152.89				MinPt-CtCt
	884.15	76.59	**832.56**	**807.56**	17.66		7190.00	7163.70				MinPts
	884.93	76.77	833.21	808.16	**17.63**		7300.00	7273.70				MinPt-SF
	905.64	77.25	853.60	828.39	**17.93**		8790.00	8763.70				MinPt-SF
	906.94	77.36	854.83	829.58	**17.93**		8850.00	8823.70				MinPt-SF
	911.40	75.93	**860.24**	**835.46**	18.36		9160.00	9133.70				MinPts
	911.41	75.94	860.25	835.47	**18.36**		9170.00	9143.70				MinPt-SF
	2831.01	100.46	2763.50	2730.55	**42.94**		12373.82	12150.95				MinPt-SF
	2844.83	103.17	2775.51	2741.66	42.00		12800.00	12190.00				MinPt-CtCt
	2844.85	103.22	**2775.49**	2741.63	41.97		12810.00	12190.00				MinPt-EOU
	2844.89	103.27	2775.51	**2741.63**	41.96		12820.00	12190.00				MinPt-ADP
	2857.83	128.79	2771.43	2729.04	33.69		14400.00	12190.00				MinPt-CtCt
	2857.97	133.09	2768.71	2724.89	32.59		14590.00	12190.00				MinPt-CtCt
	2851.05	175.92	2733.23	2675.13	24.52		16220.00	12190.00				MinPt-CtCt
	2849.60	182.63	2727.30	2666.97	23.60		16440.00	12190.00				MinPt-CtCt
	2849.89	183.74	**2726.86**	2666.15	23.46		16480.00	12190.00				MinPt-EOU
	2850.61	184.60	2727.01	**2666.01**	23.35		16510.00	12190.00				MinPt-ADP
	3333.87	247.71	3168.19	3086.16	**20.31**		17960.00	12190.00				MinPt-SF
	3456.56	225.60	3305.62	3230.96	23.14		18670.00	12190.00				MinPt-CtCt
	3473.18	214.14	3329.88	**3259.04**	24.50		19870.00	12190.00				MinPt-ADP
	3473.13	214.08	**3329.87**	3259.05	24.51		19890.00	12190.00				MinPt-EOU
	3470.42	213.02	3327.87	3257.41	24.61		20350.00	12190.00				MinPt-CtCt

Offset Trajectory	Separation			Allow	Sep.	Breaking	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	
	3470.46	213.15	**3327.82**	**3257.31**	24.60		20380.00	12190.00				MinPts
	3476.90	214.91	3333.09	3261.99	**24.44**		20860.00	12190.00				MinPt-SF
	3478.04	216.31	3333.29	3261.73	**24.29**		21460.00	12190.00				MinPt-SF
	3465.47	223.82	3315.72	3241.65	23.38		22120.00	12190.00				MinPt-CtCt
	3465.78	224.72	**3315.43**	3241.06	23.29		22170.00	12190.00				MinPt-EOU
	3466.06	225.07	3315.47	**3240.99**	23.26		22190.00	12190.00				MinPt-ADP
	3528.11	235.21	3370.77	3292.91	**22.65**		22870.00	12190.00				MinPt-SF
	3545.98	236.26	3387.93	3309.72	22.66		22966.92	12190.00				TD

1. Geological Formations

TVD of target 12,190
MD at TD 22,967

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1020	N/A	
Top Salt/Salado	1500	N/A	
Base Salt/Lamar	4530	N/A	
Top Delaware Sands/Bell Canyon	4630	N/A	
Cherry Canyon	5860	N/A	
Brushy Canyon	7070	N/A	
Bone Spring Lime	8610	N/A	
Leonard	8720	N/A	
Avalon Shale	9020	N/A	
1st Bone Spring Sand	9500	N/A	
2nd Bone Spring Sand	10250	N/A	
3rd Bone Spring Sand	11410	N/A	
Wolfcamp	11830	N/A	
Wolfcamp A - Target	12190	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
14 3/4	0	1020	1020	10-3/4"	40.50	J-55	BT&C	3.58	7.08	15.23
9 7/8	0	12373	12150	7-5/8"	29.70	HCL-80	BT&C	2.41	1.15	1.89
6 3/4	0	11624	11624	5-1/2"	20.00	P-110	BT&C	1.67	1.86	2.92
6 3/4	11624	22967	12190	5"	18.00	P-110	BT&C	1.93	1.95	56.93
					BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

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

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

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

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	396	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	106	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	983	10.30	3.64	22.18	12	Lead: Tuned Light + LCM
	200	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	1470	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	45
Intermediate	0	49
Production	11424	25

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

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
9 7/8	**13 5/8**	**5M**	Annular	X	100% of working pressure
			Blind Ram		10M
			Pipe Ram		
			Double Ram	X	
			Other		
6 3/4	**13 5/8**	**10M**	Annular	X	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		

B

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
X	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1020'	Fresh Water	7.83 - 8.33	28	N/C
1020' to 12373'	Brine Diesel Emulsion	9.00 - 9.50	30-35	N/C
12373' to 22967'	OBM	10.50 - 11.00	50-70	N/C

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

The Brine Emulsion is completely saturated brine fluid that ties diesel into itself to lower the weight of the fluid. The drilling fluid is completely salt saturated.

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

6. Logging and Testing Procedures

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

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	6972 psi
Abnormal Temperature	No

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

8. Other Facets of Operation

9. Wellhead

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

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

BOPE Additional Information & Testing

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

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

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

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

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

Additional Well Control Notes

1. In the event wellbore pressure encroaches to the maximum rated pressure of the annular, primary pressure control will be switched to the higher rated components (i.e., switch from annular to pipe rams) – upper pipe rams will be closed, and the annular opened in order to not exceed maximum rated pressures.

COTERRA Rev0

Borehole:	Well:	Field:	Structure:
Hallertau 4 Federal 415U	Hallertau 4 Federal 415U	NM Lea County (NAD 83)	Coterra - Hallertau 4 Federal Pad (sec 4 lot A)

Gravity & Magnetic Parameters						Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet					Miscellaneous			
Model:	HDGM 2025	Dip:	59.499°	Date:	30-Jan-2026	Lat:	N 32 4 44.71	Northing:	393130.28ftUS	Grid Conv:	0.3495°	Slot:	Hallertau 4 Federal 415U	TVD Ref:	RKB (3334.200 ft above MSL)
MagDec:	6.101°	FS:	47024.813nT	Gravity FS:	998.427mgn (9.80665 Based)	Lon:	W 103 40 30.71	Easting:	745178.63ftUS	Scale Fact:	0.99995668	Plan:	Coterra Hallertau 4 Federal 415U Rev0 kFc 30Jan26		

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [207'FNL, 1149'FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler	1020.00	0.00	281.55	1020.00	0.00	0.00	0.00	0.00
A3 Top	1200.00	0.00	281.55	1200.00	0.00	0.00	0.00	0.00
A3 Base	1260.00	0.00	281.55	1260.00	0.00	0.00	0.00	0.00
Salado	1500.00	0.00	281.55	1500.00	0.00	0.00	0.00	0.00
Nudge, Build 2°/100ft	2000.00	0.00	281.55	2000.00	0.00	0.00	0.00	0.00
Hold	2299.89	6.00	281.55	2299.35	-3.14	3.14	-15.36	2.00
Lamar	4542.83	6.00	281.55	4530.00	-50.06	50.06	-244.99	0.00
Bell Canyon	4643.38	6.00	281.55	4630.00	-52.16	52.16	-255.28	0.00
Cherry Canyon	5880.15	6.00	281.55	5860.00	-78.03	78.03	-381.90	0.00
Drop 2°/100ft	6903.93	6.00	281.55	6878.17	-99.45	99.45	-486.71	0.00
Brushy Canyon	7096.27	2.15	281.55	7070.00	-102.18	102.18	-500.10	2.00
Hold	7203.82	0.00	281.55	7177.52	-102.58	102.58	-502.07	2.00
Bone Spring Lime	8636.30	0.00	281.55	8610.00	-102.58	102.58	-502.07	0.00
Leonard	8746.30	0.00	281.55	8720.00	-102.58	102.58	-502.07	0.00
Avalon	9046.30	0.00	281.55	9020.00	-102.58	102.58	-502.07	0.00
1st BS SS	9526.30	0.00	281.55	9500.00	-102.58	102.58	-502.07	0.00
2nd BS SS	10276.30	0.00	281.55	10250.00	-102.58	102.58	-502.07	0.00
3rd BS SS	11436.30	0.00	281.55	11410.00	-102.58	102.58	-502.07	0.00
KOP, Build 10°/100ft	11623.82	0.00	281.55	11597.52	-102.58	102.58	-502.07	0.00
Wolfcamp	11863.20	23.94	179.46	11830.00	-53.30	53.30	-501.61	10.00
Build 5°/100ft	12373.82	75.00	179.46	12150.95	322.06	-322.06	-498.07	10.00
Landing Point	12673.82	90.00	179.46	12190.00	618.63	-618.63	-495.28	5.00
	12773.82	90.00	179.46	12190.00	718.63	-718.63	-494.33	0.00
	12773.83	90.00	179.46	12190.00	718.64	-718.64	-494.33	2.00
TP1, Turn 8.7°/100ft	16424.22	90.00	179.46	12190.00	4368.87	-4368.87	-459.94	0.00
NPZ enter	16992.00	90.00	130.06	12190.00	4866.69	-4866.69	-225.28	8.70
Hold	17458.70	90.00	89.46	12190.00	5021.21	-5021.21	204.81	8.70
TP2, Turn 8.7°/100ft	17461.20	90.00	89.46	12190.00	5021.18	-5021.18	207.31	0.00
NPZ exit	17916.00	90.00	49.89	12190.00	4866.34	-4866.34	625.37	8.70
TP3, Hold	18495.69	90.00	359.46	12190.00	4356.43	-4356.43	859.64	8.70
	18495.81	90.00	359.46	12190.00	4356.31	-4356.31	859.64	2.00
Hallertau 4 Federal 415U - BHL [100'FNL, 330'FEL]	22966.92	90.00	359.46	12190.00	-114.61	114.61	817.70	0.00

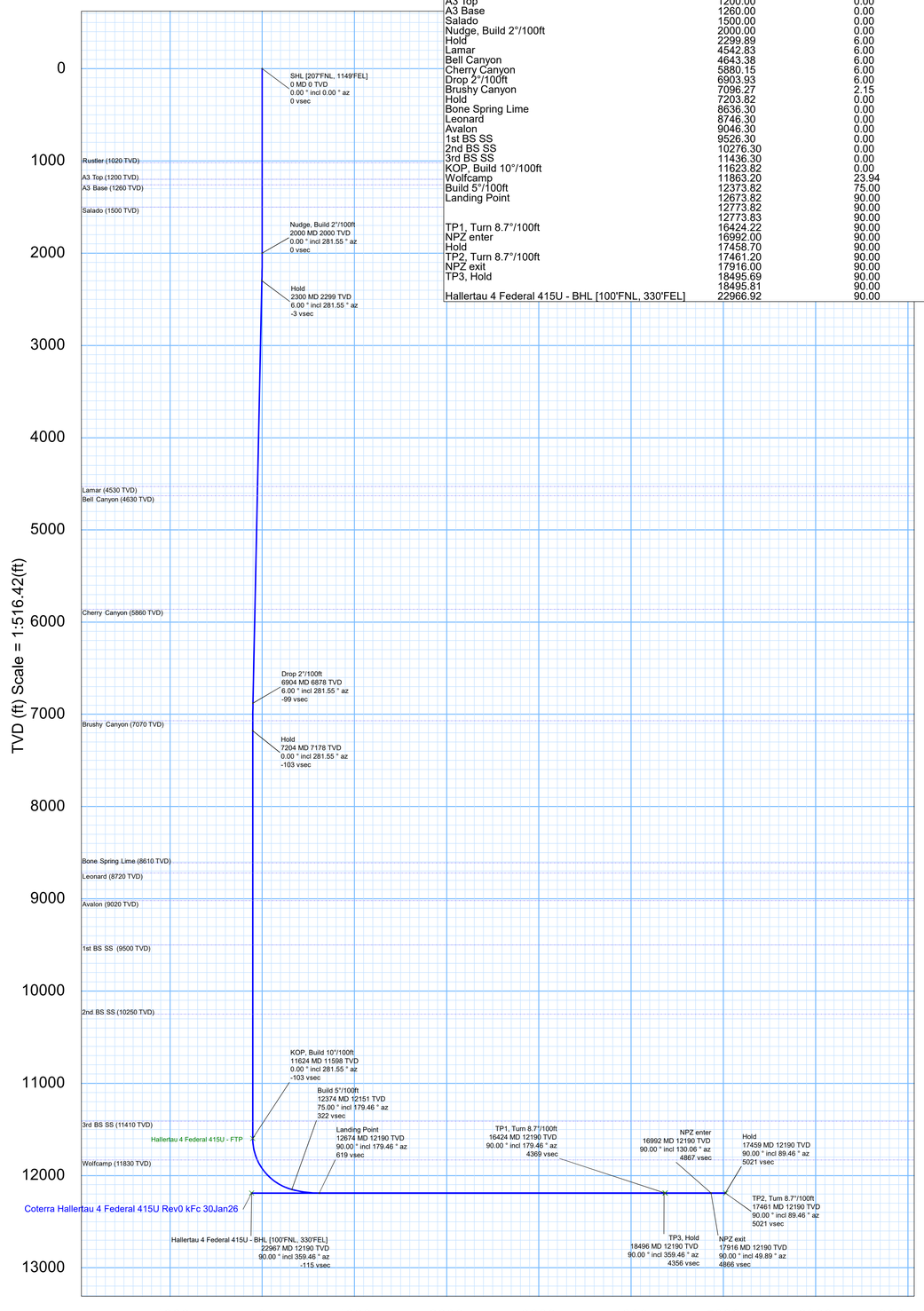
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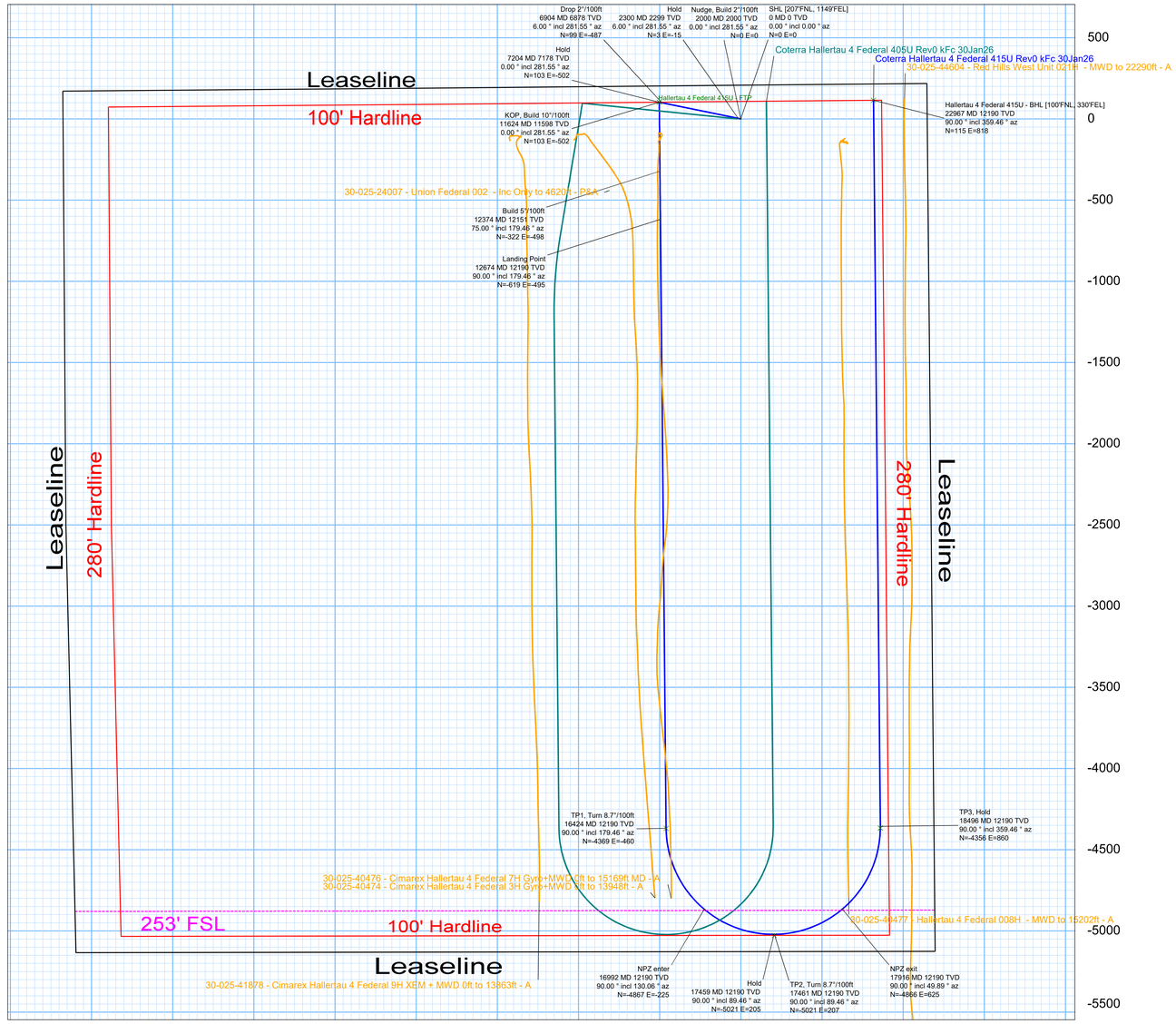
Plan ref	Coterra Hallertau 4 Federal 415U Rev0 kFc 30Jan26
Drawing ref	
Copy number	of 3
Date	11-Mar-2026

1	Client	
2	Client	
3	Office	
4	Office	

Copy number for

Grid North
Tot Corr (M->G 5.752°)
Mag Dec (6.101°)
Grid Conv (0.350°)





Coterra Hallertau 4 Federal 415U Rev0 kFc 30Jan26 Proposal Geodetic Report

Def Plan

Report Date:	March 11, 2026 - 05:43 PM (UTC 0)	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	COTERRA	**Vertical Section Azimuth:**	180.000 °(GRID North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Coterra - Hallertau 4 Federal Pad (Sec 4 lot A) / Hallertau 4 Federal 415U	**TVD Reference Datum:**	RKB
Well:	Hallertau 4 Federal 415U	**TVD Reference Elevation:**	3334.200 ft above MSL
Borehole:	Hallertau 4 Federal 415U	**Seabed / Ground Elevation:**	3307.700 ft above MSL
UBHI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.101°
Survey Name:	Coterra Hallertau 4 Federal 415U Rev0 kFc 30Jan26	**Total Gravity Field Strength:**	998.4266mgn (9.80665 Based)
Survey Date:	March 11, 2026	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	281.999 ° / 11526.799 ft / 6.787 / 0.946	**Total Magnetic Field Strength:**	47024.813 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.499°
Location Lat / Long:	32°4'44.70793"N , 103°40'30.70849"W	**Declination Date:**	January 30, 2026
Location Grid N/E Y/X:	N 393130.280 ftUS , E 745178.630 ftUS	**Magnetic Declination Model:**	HDGM 2025
CRS Grid Convergence Angle:	0.35°	**North Reference:**	Grid North
Grid Scale Factor:	0.99995668(Applied)	**Grid Convergence Used:**	0.35°
Version / Patch:	2025.1.0.1	**Total Corr Mag North->Grid North:**	5.752°
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [207'FNL, 1149'FEL]	0.00	0.00	0.00	0.00	-3,334.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680			
	100.00	0.00	281.55	100.00	-3,234.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	200.00	0.00	281.55	200.00	-3,134.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	300.00	0.00	281.55	300.00	-3,034.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	400.00	0.00	281.55	400.00	-2,934.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	500.00	0.00	281.55	500.00	-2,834.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	600.00	0.00	281.55	600.00	-2,734.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	700.00	0.00	281.55	700.00	-2,634.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	800.00	0.00	281.55	800.00	-2,534.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	900.00	0.00	281.55	900.00	-2,434.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	1,000.00	0.00	281.55	1,000.00	-2,334.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
Rustler□	1,020.00	0.00	281.55	1,020.00	-2,314.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	1,100.00	0.00	281.55	1,100.00	-2,234.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
A3 Top□	1,200.00	0.00	281.55	1,200.00	-2,134.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	1,200.00	0.00	281.55	1,200.00	-2,134.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
A3 Base□	1,260.00	0.00	281.55	1,260.00	-2,074.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	1,300.00	0.00	281.55	1,300.00	-2,034.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	1,400.00	0.00	281.55	1,400.00	-1,934.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
Salado□	1,500.00	0.00	281.55	1,500.00	-1,834.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	1,500.00	0.00	281.55	1,500.00	-1,834.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	1,600.00	0.00	281.55	1,600.00	-1,734.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	1,700.00	0.00	281.55	1,700.00	-1,634.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	1,800.00	0.00	281.55	1,800.00	-1,534.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	1,900.00	0.00	281.55	1,900.00	-1,434.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
Nudge, Build 2°/100ft	2,000.00	0.00	281.55	2,000.00	-1,334.20	0.00	0.00	0.00	393,130.28	745,178.63	32.07908553	-103.67519680	0.00	0.00	0.00
	2,100.00	2.00	281.55	2,099.98	-1,234.22	-0.35	0.35	-1.71	393,130.63	745,176.92	32.07908652	-103.67520232	2.00	2.00	0.00
	2,200.00	4.00	281.55	2,199.84	-1,134.36	-1.40	1.40	-6.84	393,131.68	745,171.79	32.07908949	-103.67521885	2.00	2.00	0.00
Hold	2,299.89	6.00	281.55	2,299.35	-1,034.85	-3.14	3.14	-15.36	393,133.42	745,163.27	32.07909442	-103.67524634	2.00	2.00	0.00
	2,300.00	6.00	281.55	2,299.45	-1,034.75	-3.14	3.14	-15.38	393,133.42	745,163.25	32.07909443	-103.67524638	0.00	0.00	0.00
	2,400.00	6.00	281.55	2,398.90	-935.30	-5.23	5.23	-25.61	393,135.51	745,153.02	32.07910035	-103.67527939	0.00	0.00	0.00
	2,500.00	6.00	281.55	2,498.36	-835.84	-7.33	7.33	-35.85	393,137.60	745,142.78	32.07910627	-103.67531240	0.00	0.00	0.00
	2,600.00	6.00	281.55	2,597.81	-736.39	-9.42	9.42	-46.09	393,139.70	745,132.54	32.07911219	-103.67534541	0.00	0.00	0.00
	2,700.00	6.00	281.55	2,697.26	-636.94	-11.51	11.51	-56.33	393,141.79	745,122.31	32.07911811	-103.67537842	0.00	0.00	0.00
	2,800.00	6.00	281.55	2,796.71	-537.49	-13.60	13.60	-66.56	393,143.88	745,112.07	32.07912403	-103.67541143	0.00	0.00	0.00
	2,900.00	6.00	281.55	2,896.17	-438.03	-15.69	15.69	-76.80	393,145.97	745,101.83	32.07912996	-103.67544444	0.00	0.00	0.00
	3,000.00	6.00	281.55	2,995.62	-338.58	-17.78	17.78	-87.04	393,148.06	745,091.59	32.07913588	-103.67547744	0.00	0.00	0.00
	3,100.00	6.00	281.55	3,095.07	-239.13	-19.88	19.88	-97.28	393,150.15	745,081.36	32.07914180	-103.67551045	0.00	0.00	0.00
	3,200.00	6.00	281.55	3,194.53	-139.67	-21.97	21.97	-107.51	393,152.25	745,071.12	32.07914772	-103.67554346	0.00	0.00	0.00
	3,300.00	6.00	281.55	3,293.98	-40.22	-24.06	24.06	-117.75	393,154.34	745,060.88	32.07915364	-103.67557647	0.00	0.00	0.00
	3,400.00	6.00	281.55	3,393.43	59.23	-26.15	26.15	-127.99	393,156.43	745,050.65	32.07915956	-103.67560948	0.00	0.00	0.00
	3,500.00	6.00	281.55	3,492.88	158.68	-28.24	28.24	-138.23	393,158.52	745,040.41	32.07916548	-103.67564249	0.00	0.00	0.00
	3,600.00	6.00	281.55	3,592.34	258.14	-30.33	30.33	-148.46	393,160.61	745,030.17	32.07917140	-103.67567550	0.00	0.00	0.00
	3,700.00	6.00	281.55	3,691.79	357.59	-32.43	32.43	-158.70	393,162.70	745,019.93	32.07917732	-103.67570851	0.00	0.00	0.00
	3,800.00	6.00	281.55	3,791.24	457.04	-34.52	34.52	-168.94	393,164.80	745,009.70	32.07918325	-103.67574152	0.00	0.00	0.00
	3,900.00	6.00	281.55	3,890.69	556.49	-36.61	36.61	-179.18	393,166.89	744,999.46	32.07918917	-103.67577453	0.00	0.00	0.00
	4,000.00	6.00	281.55	3,990.15	655.95	-38.70	38.70	-189.42	393,168.98	744,989.22	32.07919509	-103.67580754	0.00	0.00	0.00
	4,100.00	6.00	281.55	4,089.60	755.40	-40.79	40.79	-199.65	393,171.07	744,978.99	32.07920101	-103.67584055	0.00	0.00	0.00
	4,200.00	6.00	281.55	4,189.05	854.85	-42.89	42.89	-209.89	393,173.16	744,968.75	32.07920693	-103.67587356	0.00	0.00	0.00
	4,300.00	6.00	281.55	4,288.50	954.30	-44.98	44.98	-220.13	393,175.26	744,958.51	32.07921285	-103.67590657	0.00	0.00	0.00
	4,400.00	6.00	281.55	4,387.96	1,053.76	-47.07	47.07	-230.37	393,177.35	744,948.27	32.07921877	-103.67593958	0.00	0.00	0.00
	4,500.00	6.00	281.55	4,487.41	1,153.21	-49.16	49.16	-240.60	393,179.44	744,938.04	32.07922469	-103.67597259	0.00	0.00	0.00
Lamar□	4,542.83	6.00	281.55	4,530.00	1,195.80	-50.06	50.06	-244.99	393,180.33	744,933.65	32.07922723	-103.67598672	0.00	0.00	0.00
	4,600.00	6.00	281.55	4,586.86	1,252.66	-51.25	51.25	-250.84	393,181.53	744,927.80	32.07923061	-103.67600560	0.00	0.00	0.00
Bell Canyon□	4,643.38	6.00	281.55	4,630.00	1,295.80	-52.16	52.16	-255.28	393,182.44	744,923.36	32.07923318	-103.67601991	0.00	0.00	0.00
	4,700.00	6.00	281.55	4,686.31	1,352.11	-53.34	53.34	-261.08	393,183.62	744,917.56	32.07923654	-103.67603860	0.00	0.00	0.00
	4,800.00	6.00	281.55	4,785.77	1,451.57	-55.44	55.44	-271.32	393,185.71	744,907.33	32.07924246	-103.67607161	0.00	0.00	0.00
	4,900.00	6.00	281.55	4,885.22	1,551.02	-57.53	57.53	-281.55	393,187.81	744,897.09	32.07924838	-103.67610462	0.00	0.00	0.00
	5,000.00	6.00	281.55	4,984.67	1,650.47	-59.62	59.62	-291.79	393,189.90	744,886.85	32.07925430	-103.67613763	0.00	0.00	0.00
	5,100.00	6.00	281.55	5,084.12	1,749.92	-61.71	61.71	-302.03	393,191.99	744,876.61	32.07926022	-103.67617064	0.00	0.00	0.00
	5,200.00	6.00	281.55	5,183.58	1,849.38	-63.80	63.80	-312.27	393,194.08	744,866.38	32.07926614	-103.67620365	0.00	0.00	0.00
	5,300.00	6.00	281.55	5,283.03	1,948.83	-65.89	65.89	-322.50	393,196.17	744,856.14	32.07927206	-103.67623666	0.00	0.00	0.00
	5,400.00	6.00	281.55	5,382.48	2,048.28	-67.99	67.99	-332.74	393,198.26	744,845.90	32.07927798	-103.67626967	0.00	0.00	0.00
	5,500.00	6.00	281.55	5,481.93	2,147.73	-70.08	70.08	-342.98	393,200.36	744,835.67	32.07928390	-103.67630268	0.00	0.00	0.00
	5,600.00	6.00	281.55	5,581.39	2,247.19	-72.17	72.17	-353.22	393,202.45	744,825.43	32.07928982	-103.67633569	0.00	0.00	0.00
	5,700.00	6.00	281.55	5,680.84	2,346.64	-74.26	74.26	-363.45	393,204.54	744,815.19	32.07929574	-103.67636870	0.00	0.00	0.00
	5,800.00	6.00	281.55	5,780.29	2,446.09	-76.35	76.35	-373.69	393,206.63	744,804.95	32.07930167	-103.67640171	0.00	0.00	0.00
Cherry Canyon□	5,880.15	6.00	281.55	5,860.00	2,525.80	-78.03	78.03	-381.90	393,208.31	744,796.75	32.07930641	-103.67642816	0.00	0.00	0.00
	5,900.00	6.00	281.55	5,879.74	2,545.54	-78.45	78.45	-383.93	393,208.72	744,794.72	32.07930759	-103.67643472	0.00	0.00	0.00
	6,000.00	6.00	281.55	5,979.20	2,645.00	-80.54	80.54	-394.17	393,210.81	744,784.48	32.07931351	-103.67646773	0.00	0.00	0.00
	6,100.00	6.00	281.55	6,078.65	2,744.45	-82.63	82.63	-404.41	393,212.91	744,774.24	32.07931943	-103.67650074	0.00	0.00	0.00
	6,200.00	6.00	281.55	6,178.10	2,843.90	-84.72	84.72	-414.64	393,215.00	744,764.01	32.07932535	-103.67653375	0.00	0.00	0.00
	6,300.00	6.00	281.55	6,277.56	2,943.36	-86.81	86.81	-424.88	393,217.09	744,753.77	32.07933127	-103.67656676	0.00	0.00	0.00
	6,400.00	6.00	281.55	6,377.01	3,042.81	-88.90	88.90	-435.12	393,219.18	744,743.53	32.07933719	-103.67659977	0.00	0.00	0.00
	6,500.00	6.00	281.55	6,476.46	3,142.26	-91.00	91.00	-445.36	393,221.27	744,733.29	32.07934311	-103.67663278	0.00	0.00	0.00
	6,600.00	6.00	281.55	6,575.91	3,241.71	-93.09	93.09	-455.59	393,223.36	744,723.06	32.07934903	-103.67666578	0.00	0.00	0.00
	6,700.00	6.00	281.55	6,675.37	3,341.17	-95.18	95.18	-465.83	393,225.46	744,712.82	32.07935495	-103.67669879	0.00	0.00	0.00
	6,800.00	6.00	281.55	6,774.82	3,440.62	-97.27	97.27	-476.07	393,227.55	744,702.58	32.07936087	-103.67673180	0.00	0.00	0.00
	6,900.00	6.00	281.55	6,874.27	3,540.07	-99.36	99.36	-486.31	393,229.64	744,692.35	32.07936680	-103.67676481	0.00	0.00	0.00
Drop 2°/100ft	6,903.93	6.00	281.55	6,878.17	3,543.97	-99.45	99.45	-486.71	393,229.72	744,691.94	32.07936703	-103.67676611	0.00	0.00	0.00
	7,000.00	4.08	281.55	6,973.87	3,639.67	-101.13	101.13	-494.97	393,231.41	744,683.68	32.07937181	-103.67679276	2.00	-2.00	0.00
Brushy Canyon□	7,096.27	2.15	281.55	7,070.00	3,735.80	-102.18	102.18	-500.10	393,232.46	744,678.56	32.07937477	-103.67680927	2.00	-2.00	0.00
	7,100.00	2.08	281.55	7,073.72	3,739.52	-102.21	102.21	-500.23	393,232.48	744,678.42	32.07937485	-103.67680971	2.00	-2.00	0.00
	7,200.00	0.08	281.55	7,173.70	3,839.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681564	2.00	-2.00	0.00
Hold	7,203.82	0.00	281.55	7,177.52	3,843.32	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	2.00	-2.00	0.00
	7,300.00	0.00	281.55	7,273.70	3,939.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	7,400.00	0.00	281.55	7,373.70	4,039.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	7,500.00	0.00	281.55	7,473.70	4,139.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	7,600.00	0.00	281.55	7,573.70	4,239.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	7,700.00	0.00	281.55	7,673.70	4,339.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	7,800.00	0.00	281.55	7,773.70	4,439.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	7,900.00	0.00	281.55	7,873.70	4,539.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	8,000.00	0.00	281.55	7,973.70	4,639.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	8,100.00	0.00	281.55	8,073.70	4,739.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	8,200.00	0.00	281.55	8,173.70	4,839.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	8,300.00	0.00	281.55	8,273.70	4,939.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	8,400.00	0.00	281.55	8,373.70	5,039.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	8,500.00	0.00	281.55	8,473.70	5,139.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	8,600.00	0.00	281.55	8,573.70	5,239.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
Bone Spring Lime□	8,636.30	0.00	281.55	8,610.00	5,275.80	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	8,700.00	0.00	281.55	8,673.70	5,339.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
Leonard□	8,746.30	0.00	281.55	8,720.00	5,385.80	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	8,800.00	0.00	281.55	8,773.70	5,439.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	8,900.00	0.00	281.55	8,873.70	5,539.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	9,000.00	0.00	281.55	8,973.70	5,639.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
Avalon□	9,046.30	0.00	281.55	9,020.00	5,685.80	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
	9,100.00	0.00	281.55	9,073.70	5,739.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	9,200.00	0.00	281.55	9,173.70	5,839.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	9,300.00	0.00	281.55	9,273.70	5,939.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	9,400.00	0.00	281.55	9,373.70	6,039.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	9,500.00	0.00	281.55	9,473.70	6,139.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
1st BS SS □	9,526.30	0.00	281.55	9,500.00	6,165.80	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	9,600.00	0.00	281.55	9,573.70	6,239.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	9,700.00	0.00	281.55	9,673.70	6,339.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	9,800.00	0.00	281.55	9,773.70	6,439.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	9,900.00	0.00	281.55	9,873.70	6,539.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	10,000.00	0.00	281.55	9,973.70	6,639.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	10,100.00	0.00	281.55	10,073.70	6,739.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	10,200.00	0.00	281.55	10,173.70	6,839.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
2nd BS SS□	10,276.30	0.00	281.55	10,250.00	6,915.80	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	10,300.00	0.00	281.55	10,273.70	6,939.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	10,400.00	0.00	281.55	10,373.70	7,039.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	10,500.00	0.00	281.55	10,473.70	7,139.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	10,600.00	0.00	281.55	10,573.70	7,239.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	10,700.00	0.00	281.55	10,673.70	7,339.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	10,800.00	0.00	281.55	10,773.70	7,439.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	10,900.00	0.00	281.55	10,873.70	7,539.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	11,000.00	0.00	281.55	10,973.70	7,639.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	11,100.00	0.00	281.55	11,073.70	7,739.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	11,200.00	0.00	281.55	11,173.70	7,839.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	11,300.00	0.00	281.55	11,273.70	7,939.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	11,400.00	0.00	281.55	11,373.70	8,039.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
3rd BS SS□	11,436.30	0.00	281.55	11,410.00	8,075.80	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	11,500.00	0.00	281.55	11,473.70	8,139.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	11,600.00	0.00	281.55	11,573.70	8,239.50	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
KOP, Build 10°/100ft	11,623.82	0.00	281.55	11,597.52	8,263.32	-102.58	102.58	-502.07	393,232.86	744,676.58	32.07937591	-103.67681565	0.00	0.00	0.00
	11,700.00	7.62	179.46	11,673.48	8,339.28	-97.53	97.53	-502.03	393,227.80	744,676.63	32.07936201	-103.67681560	10.00	10.00	0.00
	11,800.00	17.62	179.46	11,770.94	8,436.74	-75.71	75.71	-501.82	393,205.99	744,676.83	32.07930204	-103.67681536	10.00	10.00	0.00
Wolfcamp□	11,863.20	23.94	179.46	11,830.00	8,495.80	-53.30	53.30	-501.61	393,183.58	744,677.04	32.07924045	-103.67681512	10.00	10.00	0.00
	11,900.00	27.62	179.46	11,863.13	8,528.93	-37.30	37.30	-501.46	393,167.58	744,677.20	32.07919647	-103.67681495	10.00	10.00	0.00
	12,000.00	37.62	179.46	11,947.25	8,613.05	16.53	-16.53	-500.95	393,113.75	744,677.70	32.07904849	-103.67681437	10.00	10.00	0.00
	12,100.00	47.62	179.46	12,020.75	8,686.55	84.15	-84.15	-500.31	393,046.13	744,678.34	32.07886261	-103.67681364	10.00	10.00	0.00
	12,200.00	57.62	179.46	12,081.38	8,747.18	163.51	-163.51	-499.56	392,966.78	744,679.09	32.07864447	-103.67681278	10.00	10.00	0.00
	12,300.00	67.62	179.46	12,127.32	8,793.12	252.19	-252.19	-498.73	392,878.10	744,679.92	32.07840071	-103.67681183	10.00	10.00	0.00
Build 5°/100ft	12,373.82	75.00	179.46	12,150.95	8,816.75	322.06	-322.06	-498.07	392,808.23	744,680.58	32.07820864	-103.67681107	10.00	10.00	0.00
	12,400.00	76.31	179.46	12,157.44	8,823.24	347.43	-347.43	-497.83	392,782.87	744,680.82	32.07813892	-103.67681080	5.00	5.00	0.00
	12,500.00	81.31	179.46	12,176.84	8,842.64	445.49	-445.49	-496.91	392,684.81	744,681.75	32.07786936	-103.67680974	5.00	5.00	0.00
	12,600.00	86.31	179.46	12,187.62	8,853.42	544.87	-544.87	-495.97	392,585.44	744,682.68	32.07759618	-103.67680867	5.00	5.00	0.00
Landing Point	12,673.82	90.00	179.46	12,190.00	8,855.80	618.63	-618.63	-495.28	392,511.67	744,683.38	32.07739341	-103.67680788	5.00	5.00	0.00
	12,700.00	90.00	179.46	12,190.00	8,855.80	644.81	-644.81	-495.03	392,485.50	744,683.62	32.07732145	-103.67680759	0.00	0.00	0.00
	12,773.82	90.00	179.46	12,190.00	8,855.80	718.63	-718.63	-494.33	392,411.68	744,684.32	32.07711854	-103.67680680	0.00	0.00	0.00
	12,773.83	90.00	179.46	12,190.00	8,855.80	718.64	-718.64	-494.33	392,411.67	744,684.32	32.07711852	-103.67680680	2.00	0.15	1.99
	12,800.00	90.00	179.46	12,190.00	8,855.80	744.81	-744.81	-494.09	392,385.50	744,684.57	32.07704658	-103.67680652	0.00	0.00	0.00
	12,900.00	90.00	179.46	12,190.00	8,855.80	844.81	-844.81	-493.14	392,285.51	744,685.51	32.07677171	-103.67680544	0.00	0.00	0.00
	13,000.00	90.00	179.46	12,190.00	8,855.80	944.80	-944.80	-492.20	392,185.52	744,686.45	32.07649684	-103.67680436	0.00	0.00	0.00
	13,100.00	90.00	179.46	12,190.00	8,855.80	1,044.80	-1,044.80	-491.26	392,085.53	744,687.39	32.07622197	-103.67680328	0.00	0.00	0.00
	13,200.00	90.00	179.46	12,190.00	8,855.80	1,144.79	-1,144.79	-490.32	391,985.54	744,688.33	32.07594710	-103.67680221	0.00	0.00	0.00
	13,300.00	90.00	179.46	12,190.00	8,855.80	1,244.79	-1,244.79	-489.38	391,885.55	744,689.28	32.07567223	-103.67680113	0.00	0.00	0.00
	13,400.00	90.00	179.46	12,190.00	8,855.80	1,344.78	-1,344.78	-488.43	391,785.56	744,690.22	32.07539736	-103.67680005	0.00	0.00	0.00
	13,500.00	90.00	179.46	12,190.00	8,855.80	1,444.78	-1,444.78	-487.49	391,685.57	744,691.16	32.07512249	-103.67679898	0.00	0.00	0.00
	13,600.00	90.00	179.46	12,190.00	8,855.80	1,544.77	-1,544.77	-486.55	391,585.58	744,692.10	32.07484762	-103.67679790	0.00	0.00	0.00
	13,700.00	90.00	179.46	12,190.00	8,855.80	1,644.77	-1,644.77	-485.61	391,485.58	744,693.05	32.07457275	-103.67679682	0.00	0.00	0.00
	13,800.00	90.00	179.46	12,190.00	8,855.80	1,744.77	-1,744.77	-484.66	391,385.59	744,693.99	32.07429788	-103.67679575	0.00	0.00	0.00
	13,900.00	90.00	179.46	12,190.00	8,855.80	1,844.76	-1,844.76	-483.72	391,285.60	744,694.93	32.07402301	-103.67679467	0.00	0.00	0.00
	14,000.00	90.00	179.46	12,190.00	8,855.80	1,944.76	-1,944.76	-482.78	391,185.61	744,695.87	32.07374814	-103.67679359	0.00	0.00	0.00
	14,100.00	90.00	179.46	12,190.00	8,855.80	2,044.75	-2,044.75	-481.84	391,085.62	744,696.81	32.07347327	-103.67679251	0.00	0.00	0.00
	14,200.00	90.00	179.46	12,190.00	8,855.80	2,144.75	-2,144.75	-480.90	390,985.63	744,697.76	32.07319840	-103.67679144	0.00	0.00	0.00
	14,300.00	90.00	179.46	12,190.00	8,855.80	2,244.74	-2,244.74	-479.95	390,885.64	744,698.70	32.07292353	-103.67679036	0.00	0.00	0.00
	14,400.00	90.00	179.46	12,190.00	8,855.80	2,344.74	-2,344.74	-479.01	390,785.65	744,699.64	32.07264865	-103.67678928	0.00	0.00	0.00
	14,500.00	90.00	179.46	12,190.00	8,855.80	2,444.73	-2,444.73	-478.07	390,685.66	744,700.58	32.07237378	-103.67678821	0.00	0.00	0.00
	14,600.00	90.00	179.46	12,190.00	8,855.80	2,544.73	-2,544.73	-477.13	390,585.67	744,701.52	32.07209891	-103.67678713	0.00	0.00	0.00
	14,700.00	90.00	179.46	12,190.00	8,855.80	2,644.73	-2,644.73	-476.19	390,485.67	744,702.47	32.07182404	-103.67678605	0.00	0.00	0.00
	14,800.00	90.00	179.46	12,190.00	8,855.80	2,744.72	-2,744.72	-475.24	390,385.68	744,703.41	32.07154917	-103.67678497	0.00	0.00	0.00
	14,900.00	90.00	179.46	12,190.00	8,855.80	2,844.72	-2,844.72	-474.30	390,285.69	744,704.35	32.07127430	-103.67678390	0.00	0.00	0.00
	15,000.00	90.00	179.46	12,190.00	8,855.80	2,944.71	-2,944.71	-473.36	390,185.70	744,705.29	32.07099943	-103.67678282	0.00	0.00	0.00
	15,100.00	90.00	179.46	12,190.00	8,855.80	3,044.71	-3,044.71	-472.42	390,085.71	744,706.23	32.07072456	-103.67678174	0.00	0.00	0.00
	15,200.00	90.00	179.46	12,190.00	8,855.80	3,144.70	-3,144.70	-471.47	389,985.72	744,707.18	32.07044969	-103.67678066	0.00	0.00	0.00
	15,300.00	90.00	179.46	12,190.00	8,855.80	3,244.70	-3,244.70	-470.53	389,885.73	744,708.12	32.07017482	-103.67677959	0.00	0.00	0.00
	15,400.00	90.00	179.46	12,190.00	8,855.80	3,344.69	-3,344.69	-469.59	389,785.74	744,709.06	32.06989995	-103.67677851	0.00	0.00	0.00
	15,500.00	90.00	179.46	12,190.00	8,855.80	3,444.69	-3,444.69	-468.65	389,685.75	744,710.00	32.06962508	-103.67677743	0.00	0.00	0.00
	15,600.00	90.00	179.46	12,190.00	8,855.80	3,544.69	-3,544.69	-467.71	389,585.76	744,710.95	32.06935021	-103.67677636	0.00	0.00	0.00
	15,700.00	90.00	179.46	12,190.00	8,855.80	3,644.68	-3,644.68	-466.76	389,485.76	744,711.89	32.06907534	-103.67677528	0.00	0.00	0.00
	15,800.00	90.00	179.46	12,190.00	8,855.80	3,744.68	-3,744.68	-465.82	389,385.77	744,712.83	32.06880047	-103.67677420	0.00	0.00	0.00
	15,900.00	90.00	179.46	12,190.00	8,855.80	3,844.67	-3,844.67	-464.88	389,285.78	744,713.77	32.06852560	-103.67677312	0.00	0.00	0.00
	16,000.00	90.00	179.46	12,190.00	8,855.80	3,944.67	-3,944.67	-463.94	389,185.79	744,714.71	32.06825073	-103.67677205	0.00	0.00	0.00
	16,100.00	90.00	179.46	12,190.00	8,855.80	4,044.66	-4,044.66	-463.00	389,085.80	744,715.66	32.06797586	-103.67677097	0.00	0.00	0.00
	16,200.00	90.00	179.46	12,190.00	8,855.80	4,144.66	-4,144.66	-462.05	388,985.81	744,716.60	32.06770099	-103.67676989	0.00	0.00	0.00
	16,300.00	90.00	179.46	12,190.00	8,855.80	4,244.65	-4,244.65	-461.11	388,885.82	744,717.54	32.06742612	-103.67676881	0.00	0.00	0.00
	16,400.00	90.00	179.46	12,190.00	8,855.80	4,344.65	-4,344.65	-460.17	388,785.83	744,718.48	32.06715125	-103.67676774	0.00	0.00	0.00
TP1, Turn 8.7°/100ft	16,424.22	90.00	179.46	12,190.00	8,855.80	4,368.87	-4,368.87	-459.94	388,761.61	744,718.71	32.06708468	-103.67676748	0.00	0.00	0.00
	16,500.00	90.00	172.87	12,190.00	8,855.80	4,444.44	-4,444.44	-454.87	388,686.04	744,723.78	32.06687688	-103.67675260	8.70	0.00	-8.70
	16,600.00	90.00	164.17	12,190.00	8,855.80	4,542.34	-4,542.34	-434.99	388,588.14	744,743.66	32.06660744	-103.67669033	8.70	0.00	-8.70
	16,700.00	90.00	155.47	12,190.00	8,855.80	4,636.11	-4,636.11	-400.52	388,494.38	744,778.13	32.06634912	-103.67658091	8.70	0.00	-8.70
	16,800.00	90.00	146.77	12,190.00	8,855.80	4,723.59	-4,723.59	-352.26	388,406.91	744,826.38	32.06610787	-103.67642686	8.70	0.00	-8.70
	16,900.00	90.00	138.07	12,190.00	8,855.80	4,802.76	-4,802.76	-291.33	388,327.74	744,887.31	32.06588923	-103.67623174	8.70	0.00	-8.70
NPZ enter	16,992.00	90.00	130.06	12,190.00	8,855.80	4,866.69	-4,866.69	-225.28	388,263.81	744,953.36	32.06571240	-103.67601979	8.70	0.00	-8.70
	17,000.00	90.00	129.37	12,190.00	8,855.80	4,871.80	-4,871.80	-219.12	388,258.70	744,959.52	32.06569824	-103.67600002	8.70	0.00	-8.70
	17,100.00	90.00	120.67	12,190.00	8,855.80	4,929.13	-4,929.13	-137.30	388,201.37	745,041.33	32.06553930	-103.67573705	8.70	0.00	-8.70
	17,200.00	90.00	111.97	12,190.00	8,855.80	4,973.42	-4,973.42	-47.75	388,157.08	745,130.88	32.06541606	-103.67544887	8.70	0.00	-8.70
	17,300.00	90.00	103.27	12,190.00	8,855.80	5,003.66	-5,003.66	47.46	388,126.85	745,226.09	32.06533135	-103.67514211	8.70	0.00	-8.70
	17,400.00	90.00	94.57	12,190.00	8,855.80	5,019.14	-5,019.14	146.16	388,111.36	745,324.78	32.06528713	-103.67482384	8.70	0.00	-8.70
Hold	17,458.70	90.00	89.46	12,190.00	8,855.80	5,021.21	-5,021.21	204.81	388,109.30	745,383.43	32.06528048	-103.67463457	8.70	0.00	-8.70
TP2, Turn 8.7°/100ft	17,461.20	90.00	89.46	12,190.00	8,855.80	5,021.18	-5,021.18	207.31	388,109.32	745,385.93	32.06528050	-103.67462650	0.00	0.00	0.00
	17,500.00	90.00	86.08	12,190.00	8,855.80	5,019.67	-5,019.67	246.07	388,110.83	745,424.69	32.06528400	-103.67450135	8.70	0.00	-8.70
	17,600.00	90.00	77.38	12,190.00	8,855.80	5,005.31	-5,005.31	344.94	388,125.19	745,523.55	32.06532181	-103.67418194	8.70	0.00	-8.70
	17,700.00	90.00	68.68	12,190.00	8,855.80	4,976.16	-4,976.16	440.49	388,154.34	745,619.10	32.06540033	-103.67387293	8.70	0.00	-8.70
	17,800.00	90.00	59.98	12,190.00	8,855.80	4,932.89	-4,932.89	530.54	388,197.61	745,709.15	32.06551776	-103.67358141	8.70	0.00	-8.70
	17,900.00	90.00	51.28	12,190.00	8,855.80	4,876.50	-4,876.50	613.01	388,254.00	745,791.61	32.06567137	-103.67331411	8.70	0.00	-8.70
NPZ exit	17,916.00	90.00	49.89	12,190.00	8,855.80	4,866.34	-4,866.34	625.37	388,264.16	745,803.97	32.06569909	-103.67327401	8.70	0.00	-8.70
	18,000.00	90.00	42.58	12,190.00	8,855.80	4,808.28	-4,808.28	685.99	388,322.22	745,864.59	32.06585765	-103.67307717	8.70	0.00	-8.70
	18,100.00	90.00	33.88	12,190.00	8,855.80	4,729.81	-4,729.81	747.82	388,400.68	745,926.42	32.06607231	-103.67287604	8.70	0.00	-8.70
	18,200.00	90.00	25.18	12,190.00	8,855.80	4,642.89	-4,642.89	797.07	388,487.60	745,975.66	32.06631040	-103.67271536	8.70	0.00	-8.70
	18,300.00	90.00	16.48	12,190.00	8,855.80	4,549.52	-4,549.52	832.60	388,580.97	746,011.20	32.06656645	-103.67259881	8.70	0.00	-8.70
	18,400.00	90.00	7.78	12,190.00	8,855.80	4,451.84	-4,451.84	853.60	388,678.64	746,032.20	32.06683456	-103.67252909	8.70	0.00	-8.70
TP3, Hold	18,495.69	90.00	359.46	12,190.00	8,855.80	4,356.43	-4,356.43	859.64	388,774.04	746,038.24	32.06709672	-103.67250771	8.70	0.00	-8.70
	18,495.81	90.00	359.46	12,190.00	8,855.80	4,356.31	-4,356.31	859.64	388,774.17	746,038.23	32.06709705	-103.67250771	2.00	0.00	2.00
	18,500.00	90.00	359.46	12,190.00	8,855.80	4,352.12	-4,352.12	859.60	388,778.36	746,038.20	32.06710857	-103.67250776	0.00	0.00	0.00
	18,600.00	90.00	359.46	12,190.00	8,855.80	4,252.12	-4,252.12	858.67	388,878.35	746,037.26	32.06738344	-103.67250881	0.00	0.00	0.00
	18,700.00	90.00	359.46	12,190.00	8,855.80	4,152.13	-4,152.13	857.73	388,978.34	746,036.32	32.06765831	-103.67250986	0.00	0.00	0.00
	18,800.00	90.00	359.46	12,190.00	8,855.80	4,052.13	-4,052.13	856.79	389,078.33	746,035.38	32.06793318	-103.67251091	0.00	0.00	0.00
	18,900.00	90.00	359.46	12,190.00	8,855.80	3,952.14	-3,952.14	855.85	389,178.32	746,034.44	32.06820805	-103.67251196	0.00	0.00	0.00
	19,000.00	90.00	359.46	12,190.00	8,855.80	3,852.14	-3,852.14	854.91	389,278.31	746,033.50	32.06848292	-103.67251301	0.00	0.00	0.00
	19,100.00	90.00	359.46	12,190.00	8,855.80	3,752.15	-3,752.15	853.98	389,378.30	746,032.57	32.06875779	-103.67251407	0.00	0.00	0.00
	19,200.00	90.00	359.46	12,190.00	8,855.80	3,652.15	-3,652.15	853.04	389,478.29	746,031.63	32.06903266	-103.67251512	0.00	0.00	0.00
	19,300.00	90.00	359.46	12,190.00	8,855.80	3,552.16	-3,552.16	852.10	389,578.29	746,030.69	32.06930753	-103.67251617	0.00	0.00	0.00
	19,400.00	90.00	359.46	12,190.00	8,855.80	3,452.16	-3,452.16	851.16	389,678.28	746,029.75	32.06958241	-103.67251722	0.00	0.00	0.00
	19,500.00	90.00	359.46	12,190.00	8,855.80	3,352.16	-3,352.16	850.22	389,778.27	746,028.81	32.06985728	-103.67251827	0.00	0.00	0.00
	19,600.00	90.00	359.46	12,190.00	8,855.80	3,252.17	-3,252.17	849.28	389,878.26	746,027.88	32.07013215	-103.67251932	0.00	0.00	0.00
	19,700.00	90.00	359.46	12,190.00	8,855.80	3,152.17	-3,152.17	848.35	389,978.25	746,026.94	32.07040702	-103.67252038	0.00	0.00	0.00
	19,800.00	90.00	359.46	12,190.00	8,855.80	3,052.18	-3,052.18	847.41	390,078.24	746,026.00	32.07068189	-103.67252143	0.00	0.00	0.00
	19,900.00	90.00	359.46	12,190.00	8,855.80	2,952.18	-2,952.18	846.47	390,178.23	746,025.06	32.07095676	-103.67252248	0.00	0.00	0.00
	20,000.00	90.00	359.46	12,190.00	8,855.80	2,852.19	-2,852.19	845.53	390,278.22	746,024.12	32.07123163	-103.67252353	0.00	0.00	0.00
	20,100.00	90.00	359.46	12,190.00	8,855.80	2,752.19	-2,752.19	844.59	390,378.21	746,023.19	32.07150650	-103.67252458	0.00	0.00	0.00
	20,200.00	90.00	359.46	12,190.00	8,855.80	2,652.19	-2,652.19	843.66	390,478.21	746,022.25	32.07178137	-103.67252563	0.00	0.00	0.00
	20,300.00	90.00	359.46	12,190.00	8,855.80	2,552.20	-2,552.20	842.72	390,578.20	746,021.31	32.07205624	-103.67252669	0.00	0.00	0.00
	20,400.00	90.00	359.46	12,190.00	8,855.80	2,452.20	-2,452.20	841.78	390,678.19	746,020.37	32.07233111	-103.67252774	0.00	0.00	0.00
	20,500.00	90.00	359.46	12,190.00	8,855.80	2,352.21	-2,352.21	840.84	390,778.18	746,019.43	32.07260598	-103.67252879	0.00	0.00	0.00
	20,600.00	90.00	359.46	12,190.00	8,855.80	2,252.21	-2,252.21	839.90	390,878.17	746,018.49	32.07288085	-103.67252984	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
	20,700.00	90.00	359.46	12,190.00	8,855.80	2,152.22	-2,152.22	838.96	390,978.16	746,017.56	32.07315572	-103.67253089	0.00	0.00	0.00
	20,800.00	90.00	359.46	12,190.00	8,855.80	2,052.22	-2,052.22	838.03	391,078.15	746,016.62	32.07343059	-103.67253194	0.00	0.00	0.00
	20,900.00	90.00	359.46	12,190.00	8,855.80	1,952.23	-1,952.23	837.09	391,178.14	746,015.68	32.07370546	-103.67253300	0.00	0.00	0.00
	21,000.00	90.00	359.46	12,190.00	8,855.80	1,852.23	-1,852.23	836.15	391,278.13	746,014.74	32.07398033	-103.67253405	0.00	0.00	0.00
	21,100.00	90.00	359.46	12,190.00	8,855.80	1,752.23	-1,752.23	835.21	391,378.13	746,013.80	32.07425520	-103.67253510	0.00	0.00	0.00
	21,200.00	90.00	359.46	12,190.00	8,855.80	1,652.24	-1,652.24	834.27	391,478.12	746,012.87	32.07453007	-103.67253615	0.00	0.00	0.00
	21,300.00	90.00	359.46	12,190.00	8,855.80	1,552.24	-1,552.24	833.34	391,578.11	746,011.93	32.07480494	-103.67253720	0.00	0.00	0.00
	21,400.00	90.00	359.46	12,190.00	8,855.80	1,452.25	-1,452.25	832.40	391,678.10	746,010.99	32.07507981	-103.67253825	0.00	0.00	0.00
	21,500.00	90.00	359.46	12,190.00	8,855.80	1,352.25	-1,352.25	831.46	391,778.09	746,010.05	32.07535468	-103.67253930	0.00	0.00	0.00
	21,600.00	90.00	359.46	12,190.00	8,855.80	1,252.26	-1,252.26	830.52	391,878.08	746,009.11	32.07562955	-103.67254036	0.00	0.00	0.00
	21,700.00	90.00	359.46	12,190.00	8,855.80	1,152.26	-1,152.26	829.58	391,978.07	746,008.18	32.07590442	-103.67254141	0.00	0.00	0.00
	21,800.00	90.00	359.46	12,190.00	8,855.80	1,052.27	-1,052.27	828.64	392,078.06	746,007.24	32.07617929	-103.67254246	0.00	0.00	0.00
	21,900.00	90.00	359.46	12,190.00	8,855.80	952.27	-952.27	827.71	392,178.05	746,006.30	32.07645416	-103.67254351	0.00	0.00	0.00
	22,000.00	90.00	359.46	12,190.00	8,855.80	852.27	-852.27	826.77	392,278.04	746,005.36	32.07672903	-103.67254456	0.00	0.00	0.00
	22,100.00	90.00	359.46	12,190.00	8,855.80	752.28	-752.28	825.83	392,378.04	746,004.42	32.07700390	-103.67254561	0.00	0.00	0.00
	22,200.00	90.00	359.46	12,190.00	8,855.80	652.28	-652.28	824.89	392,478.03	746,003.48	32.07727877	-103.67254667	0.00	0.00	0.00
	22,300.00	90.00	359.46	12,190.00	8,855.80	552.29	-552.29	823.95	392,578.02	746,002.55	32.07755364	-103.67254772	0.00	0.00	0.00
	22,400.00	90.00	359.46	12,190.00	8,855.80	452.29	-452.29	823.02	392,678.01	746,001.61	32.07782851	-103.67254877	0.00	0.00	0.00
	22,500.00	90.00	359.46	12,190.00	8,855.80	352.30	-352.30	822.08	392,778.00	746,000.67	32.07810338	-103.67254982	0.00	0.00	0.00
	22,600.00	90.00	359.46	12,190.00	8,855.80	252.30	-252.30	821.14	392,877.99	745,999.73	32.07837825	-103.67255087	0.00	0.00	0.00
	22,700.00	90.00	359.46	12,190.00	8,855.80	152.30	-152.30	820.20	392,977.98	745,998.79	32.07865312	-103.67255192	0.00	0.00	0.00
	22,800.00	90.00	359.46	12,190.00	8,855.80	52.31	-52.31	819.26	393,077.97	745,997.86	32.07892799	-103.67255297	0.00	0.00	0.00
	22,900.00	90.00	359.46	12,190.00	8,855.80	-47.69	47.69	818.32	393,177.96	745,996.92	32.07920286	-103.67255403	0.00	0.00	0.00
Hallertau 4 Federal 415U - BHL |	22,966.92	90.00	359.46	12,190.00	8,855.80	-114.61	114.61	817.70	393,244.88	745,996.29	32.07938681	-103.67255473	0.00	0.00	0.00

Survey Type: Def Plan

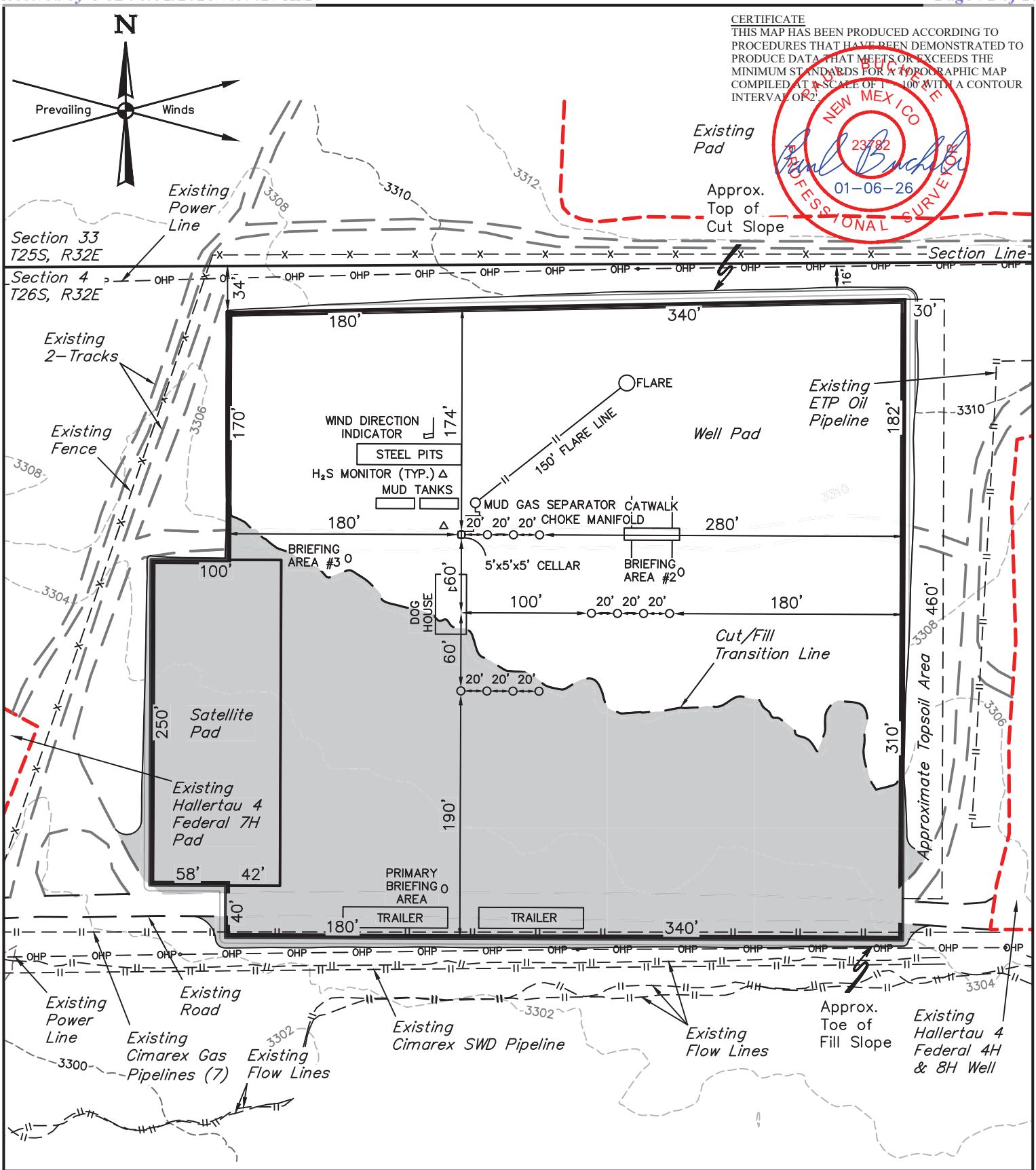
Survey Error Model: ISCWSA Rev 5 *** 3-D 95 % Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	11,600.000	1/100.000	´.5 – 12.25 – 8.75	75 – 9.625 – 8.75		A001Mc_MWD+SRGM_r5		Hallertau 4 Federal 415U / Coterra Hallertau 4 Fed
	1	11,600.000	22,966.922	1/100.000	8.75	8.75		A008Mc_MWD+IFR1+MS_r5		Hallertau 4 Federal 415U / Coterra Hallertau 4 Fed

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
949.900	17.500	13.375	
4,773.991	12.250	9.625	
22,966.922	8.750		



NOTES:

- Contours shown at 2' intervals.

COTERRA ENERGY OPERATING CO.

HALLERTAU 4 FEDERAL E2E2
275' FNL 1,093' FEL (APPROX. CENTER OF PAD)
NE 1/4 NE 1/4, SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	N.R.	01-06-26	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

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:** 2/12/2026

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
Hallertau 4 Federal Com #415H		Sec 4 T26S, R32E	207 FNL/1149 FWL	2178	7469	6964

IV. Central Delivery Point Name: Hallertau 5 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
Hallertau 4 Federal Com #415H		7/3/2026	8/15/2026	9/8/2026	10/19/2026	10/192026

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:	Crystal Denson
Printed Name:	Crystal Denson
Title:	Regulatory Analyst
E-mail Address:	crystal.denson@coterra.com
Date:	2/12/2026
Phone:	432/6201699

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

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

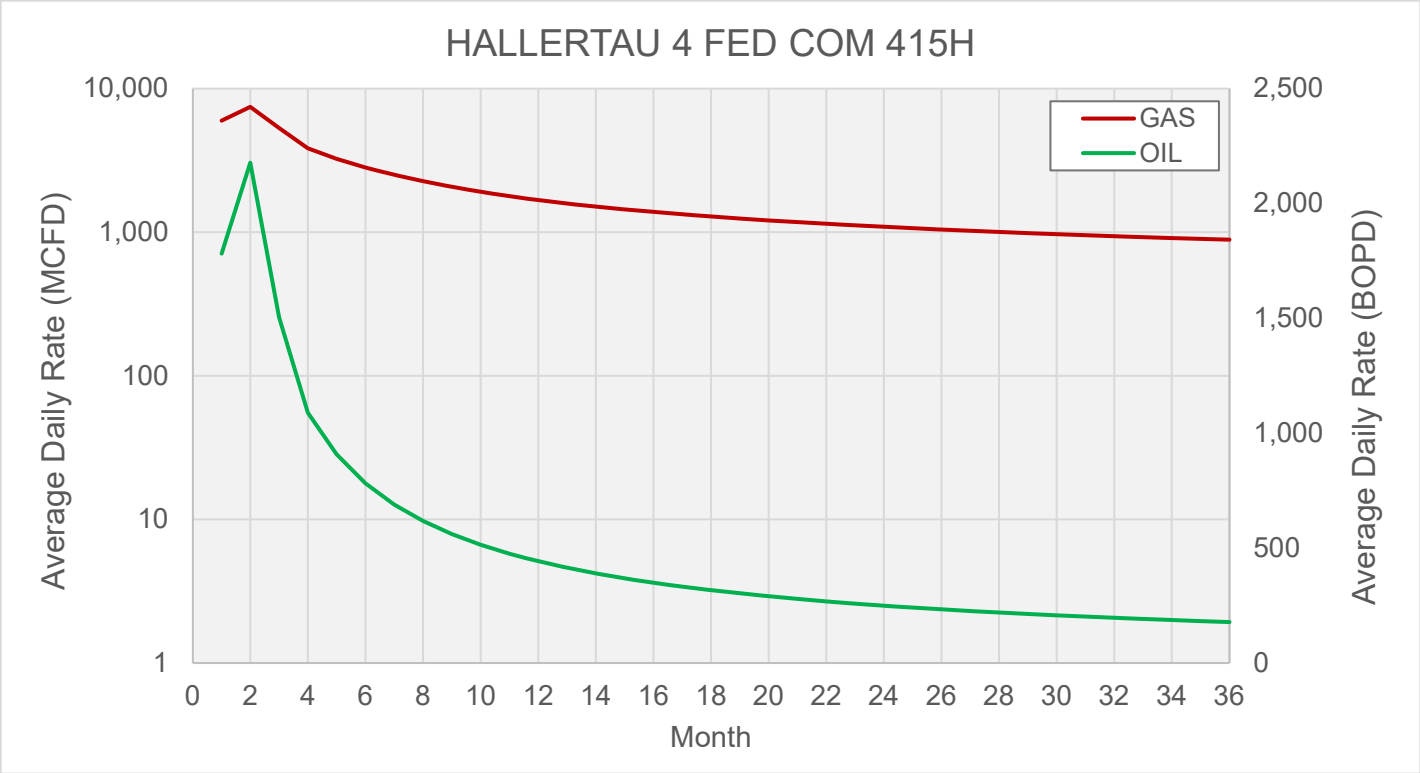
From State of New Mexico, Natural Gas Management Plan

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.

HALLERTAU 4 FED COM 415H	HALLERTAU 4 FED COM 415H
GAS MCFD	OIL BOPD
5,988	1,782
7,469	2,178
5,312	1,505
3,844	1,089
3,245	908
2,819	782
2,505	689
2,263	618
2,071	561
1,915	514
1,785	475
1,675	443
1,584	414
1,508	390
1,442	368
1,384	349
1,332	332
1,286	317
1,245	303
1,208	290
1,175	279
1,144	268
1,116	258
1,091	249
1,067	241
1,044	233
1,023	226
1,003	220
985	213
968	207
952	202
937	196
924	192
911	187
899	182
888	178
GAS	OIL


HALLERTAU 4 FED COM 415H
GAS
OIL
Average Daily Rate (MCFD)
Average Daily Rate (BOPD)
Month
10,000
1,000
100
10
1
2,500
2,000
1,500
1,000
500
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36

Cimarex
VII. Operational Practices

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

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

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

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

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

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

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

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

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

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

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

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

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

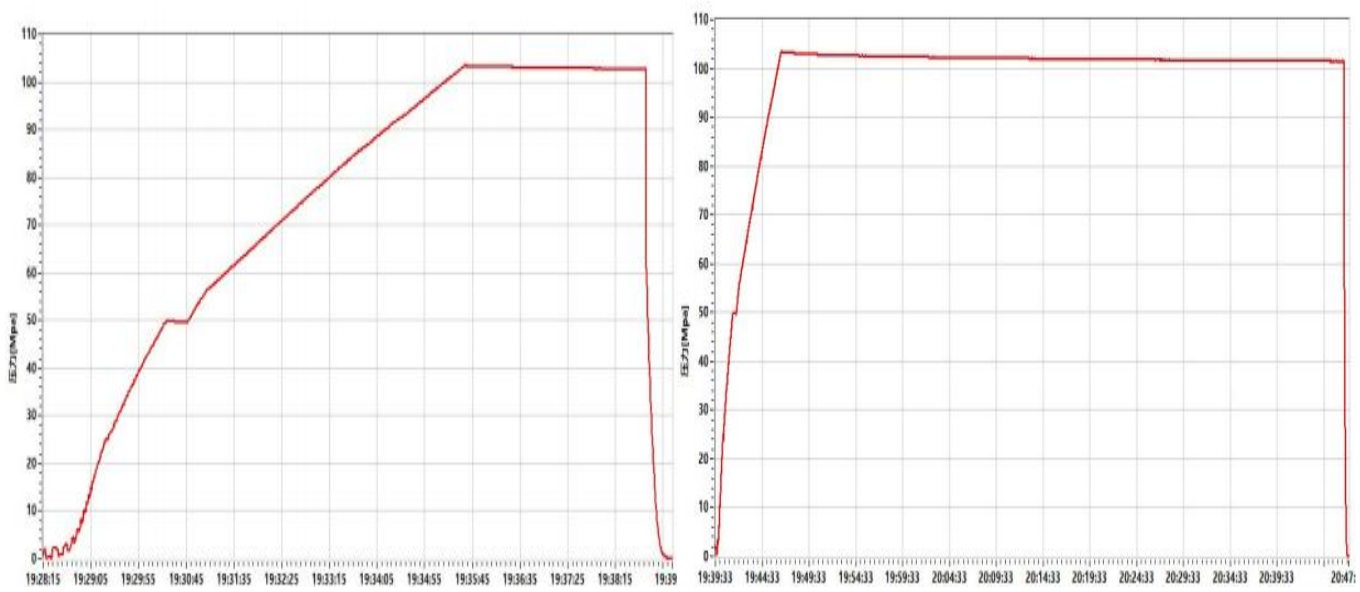
AustinHOSE

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

Well Control Plan

Warning Signs of a Kick

If a kick is ever suspected, perform flow check.

While Drilling:

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

While Tripping:

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

While Out of the Hole:

1. Flow
2. Pit gain

Well Control Procedures with Diverter

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

If rotating head is installed:

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

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

If rotating head is not installed:

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

Well Control Procedures

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

General Well Control

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

Hard Shut-In

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

Flow Check when on Bottom

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

Shutting in while Drilling

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

Flow Check while Tripping

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

Shutting in while Tripping

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

Shutting in while Out of Hole

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

Information to Record while Shut-In

1. Shut in drill pipe pressure every 5 minutes

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

H2S with Annular Diverter:

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

H2S with BOP's:

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

Procedure for Closing Blind Rams

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

Procedure for Opening Blind Rams

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

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

BOP Drills

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

Choke Manifold Freeze Prevention

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

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

SUPO Data Report
03/30/2026

APD ID: 10400110106
Submission Date: 02/13/2026
Operator Name: COTERRA ENERGY OPERATING CO
Well Name: HALLERTAU 4 FEDERAL COM
Well Number: 415H
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:

HALLERTAU_4_FEDERAL_COM_E2E2_Access_Road_Map_20260205143012.pdf
HALLERTAU_5_4__EXISTING_ROAD_Plat_20260310174637.pdf
Hallertau_4_5_Fed_New_Road_Map_20260313102706.pdf
HALLERTAU_5_FEDERAL_COM_E2E2_PAD_1_new_road_plats_20260316140444.pdf

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

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

HALLERTAU_5_FEDERAL_COM_E2E2_PAD_1_new_road_plats_20260316140459.pdf

New road type: COLLECTOR,LOCAL

Length: 2339.22 Feet
Width (ft.): 30

Max slope (%): 0
Max grade (%): 0

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

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

New road access plan

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: NA

Onsite topsoil removal process: The topsoil shall be stripped and salvaged 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:

HALLERTAU_4_FEDERAL_COM_E2E2_1_Mile_Radius_Map_20260205143058.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Using Hallertau 5 CTB

Production Facilities map:

HALLERTAU_4_FEDERAL_COM_E2E2_Location_Layout_Plat_20260205143118.pdf

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

Hallertau_plot_plan_20260205144847.pdf

HALLERTAU_5_4_BULK_LINE_NETWORKS_Plat_20260310174652.pdf

HALLERTAU_5_4_POWER_LINE_Plat_20260310174652.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: RECYCLED

Water source use type: SURFACE CASING
INTERMEDIATE/PRODUCTION CASING
STIMULATION

Source latitude: 32.105675 **Source longitude:** -104.269639

Source datum: NAD83

City:

Water source permit type: WATER RIGHT

Water source transport method: PIPELINE

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

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

Source volume (gal): 210000

Water source and transportation

Hallertau_4_5___Water_Supply_Map_20260213114518.pdf

Water source comments:

New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

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 and gravel 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 NENW Section 5/T25S/R26E. 32.165186, -104.315946

Construction Materials source location

Hallertau_4_5___Caliche_Location_Map_20260213114547.pdf

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

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Haul to R360 Environmental Solutions, 4507 Carlsbad Hwy, Hobbs, NM 88240

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations.

Amount of waste: 32500 pounds

Waste disposal frequency : Weekly

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

Safe containmant attachment:

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

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

Disposal type description:

Disposal location description: A licensed 3rd party hauls trash to Lea County Landfill.

Waste type: SEWAGE

Waste content description: Human waste.

Amount of waste: 300 gallons

Waste disposal frequency : Weekly

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

Safe containmant attachment:

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

Disposal type description:

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

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: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

HALLERTAU_4_FEDERAL_COM_E2E2_Rig_Layout_Plat_20260205160058.pdf
HALLERTAU_4_FEDERAL_COM_E2E2_Reclamation_Plat_20260205160058.pdf
HALLERTAU_4_FEDERAL_COM_E2E2_Location_Layout_Plat_20260205154103.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Hallertau 5 Fed Com Pad 1

Multiple Well Pad Number: E2E2

Recontouring

HALLERTAU_4_FEDERAL_COM_E2E2_Reclamation_Plat_20260205154119.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): 6.718	**Well pad interim reclamation (acres):** 1.755	**Well pad long term disturbance (acres):** 4.963
Road proposed disturbance (acres): 1.608	**Road interim reclamation (acres):** 0	**Road long term disturbance (acres):** 1.608
Powerline proposed disturbance (acres): 0	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres): 0	**Pipeline interim reclamation (acres):** 0	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 0	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 8.326	**Total interim reclamation:** 1.755	**Total long term disturbance:** 6.571

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: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

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: N/A

Existing Vegetation at the well pad

Existing Vegetation Community at the road: N/A

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: N/A

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

Operator Contact/Responsible Official

First Name: **Last Name:**

Phone: **Email:**

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: N/A

Weed treatment plan

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

Monitoring plan

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

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Disturbance type: OTHER

Describe: powerline

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Section 12 - Other

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

ROW Type(s):

ROW

SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: Onsite with Brendan Harris 12/11/2025.

Other SUPO

BEGINNING AT THE INTERSECTION OF NM HIGHWAY 128 AND ORLA ROAD TO THE SOUTH (LOCATED AT NAD 83 LATITUDE 32.2157° AND LONGITUDE -103.6709°) PROCEED IN A SOUTHERLY DIRECTION ALONG ORLA ROAD APPROXIMATELY 9.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY THEN WESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE JUNCTION OF THIS ROAD AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF NM HIGHWAY 128 AND ORLA ROAD TO THE SOUTH (LOCATED AT NAD 83 LATITUDE 32.2157° AND LONGITUDE -103.6709°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 9.8 MILES.

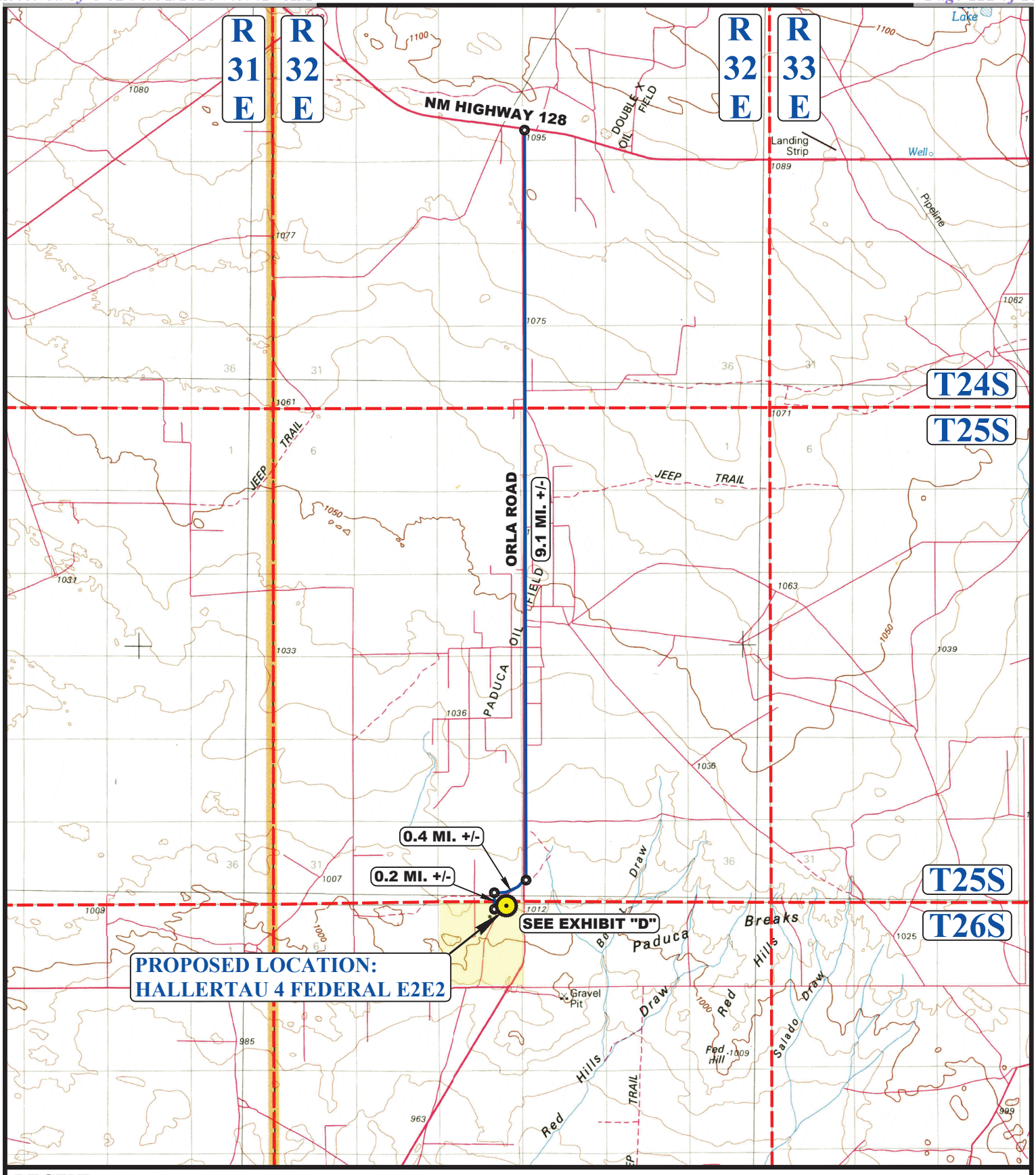
COTERRA ENERGY OPERATING CO.

HALLERTAU 4 FEDERAL E2E2
275' FNL 1,093' FEL (APPROX. CENTER OF PAD)
NE 1/4 NE 1/4, SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	
DRAWN BY	N.R.	01-06-26	

ROAD DESCRIPTION

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



LEGEND:

PROPOSED LOCATION

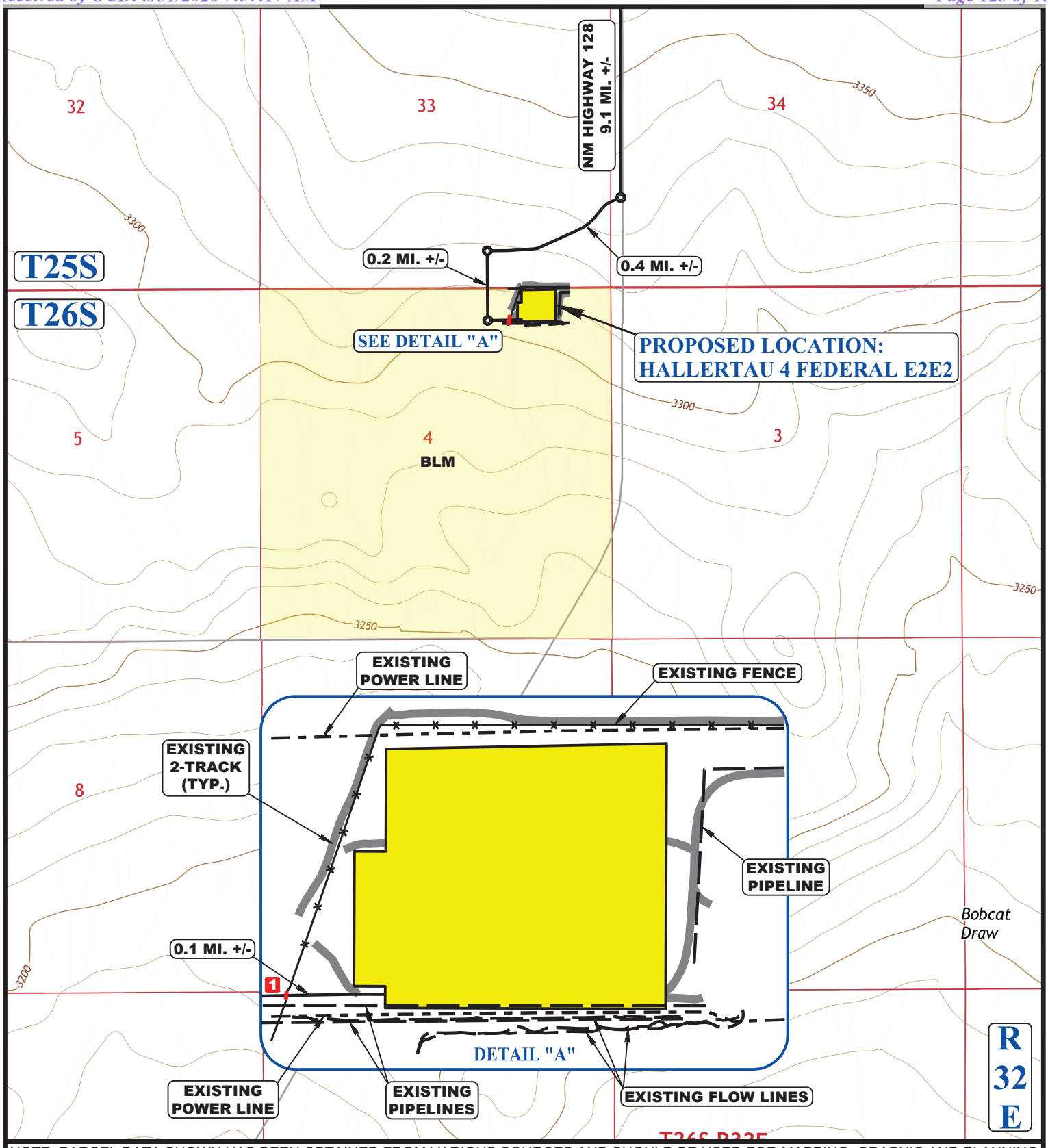
N

COTERRA ENERGY OPERATING CO.

HALLERTAU 4 FEDERAL E2E2
275' FNL 1,093' FEL (APPROX. CENTER OF PAD)
NE 1/4 NE 1/4, SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	N.R.	01-06-26	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 FENCE
- 1 EXISTING CATTLEGUARD

N

COTERRA ENERGY OPERATING CO.

HALLERTAU 4 FEDERAL E2E2
275' FNL 1,093' FEL (APPROX. CENTER OF PAD)
NE 1/4 NE 1/4, SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

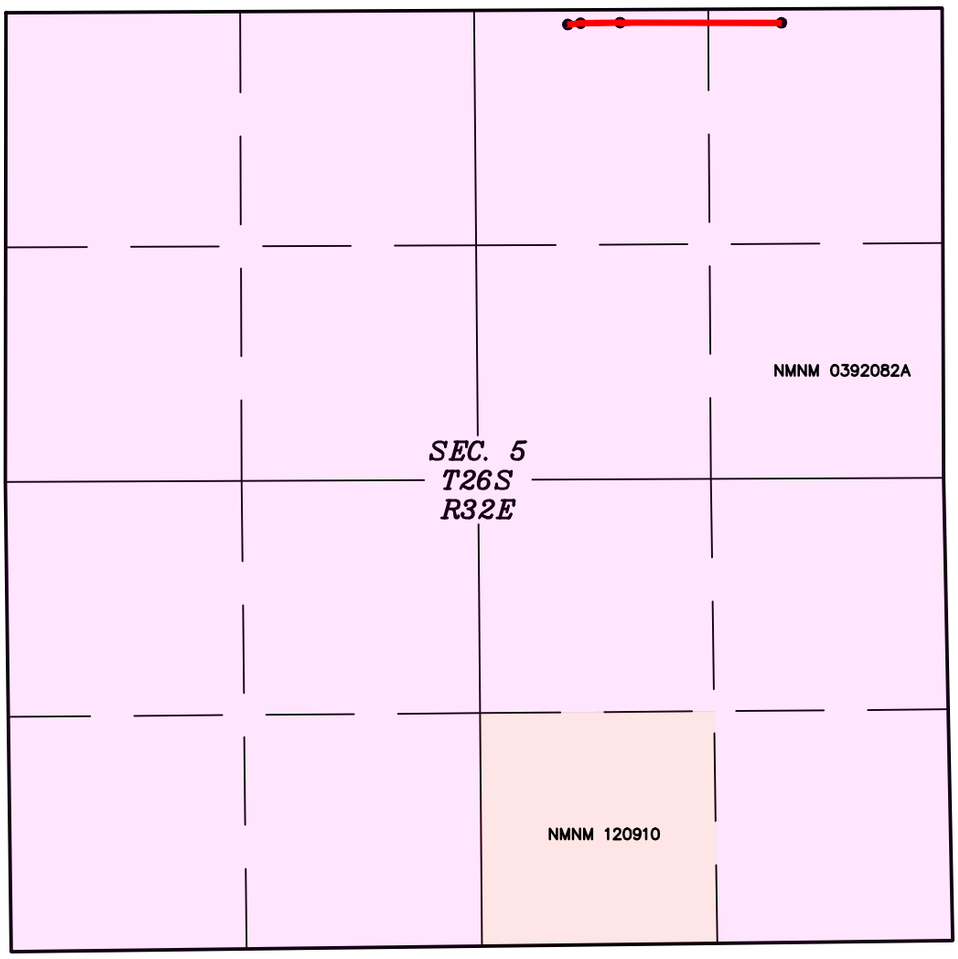
SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	N.R.	01-06-26	1 : 24,000

ACCESS ROAD MAP **EXHIBIT D**

UINTAH ENGINEERING & LAND SURVEYING

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

Page 124 of 159



LEGEND:

- EXISTING CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

NOTES:

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

N

COTERRA ENERGY OPERATING CO.

HALLERTAU 5 EXISTING ROAD
ON BLM LANDS IN
SECTION 5, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	N/A

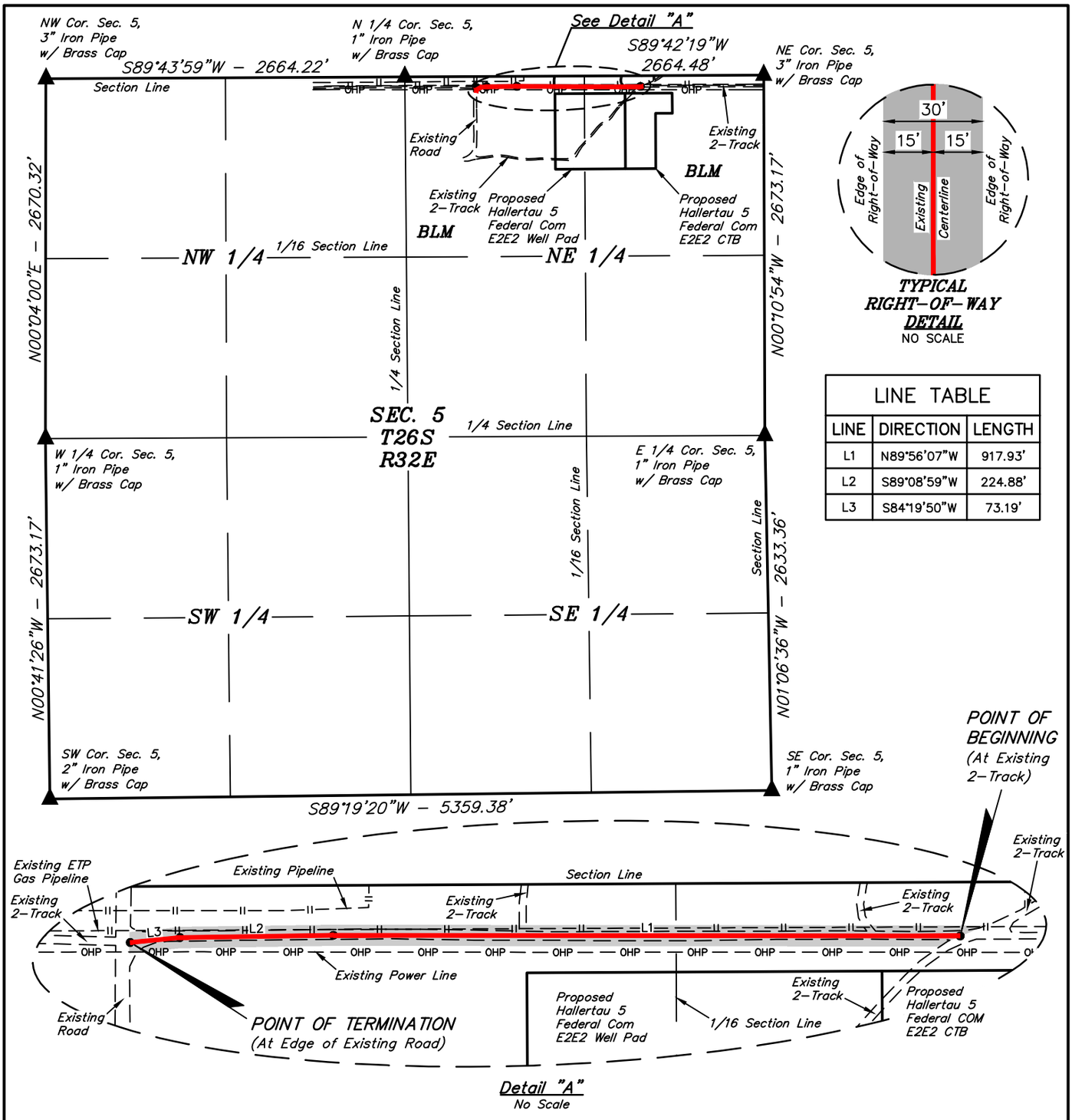
OVERALL ROAD MAP

UINTAH ENGINEERING & LAND SURVEYING

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

Received by OCD: 3/31/2026 7:59:17 AM
Released to Imaging: 4/14/2026 9:25:06 AM

Page 125 of 159



TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°56'07"W	917.93'
L2	S89°08'59"W	224.88'
L3	S84°19'50"W	73.19'

EXISTING ROAD RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 5 BEARS S89°42'19"W 2664.48', THENCE S84°47'32"W 919.35' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF BEGINNING; THENCE N89°56'07"W 917.93'; THENCE S89°08'59"W 224.88'; THENCE S84°19'50"W 73.19' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S81°32'44"E 539.14' FROM THE NORTH 1/4 CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.837 ACRES MORE OR LESS.

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 5 (NE 1/4)	1216.00	73.70	0.837

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

POINT OF BEGINNING BEARS S84°47'32"W 919.35' FROM THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

POINT OF TERMINATION BEARS S81°32'44"E 539.14' FROM THE NORTH 1/4 CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

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

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
01-05-26

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

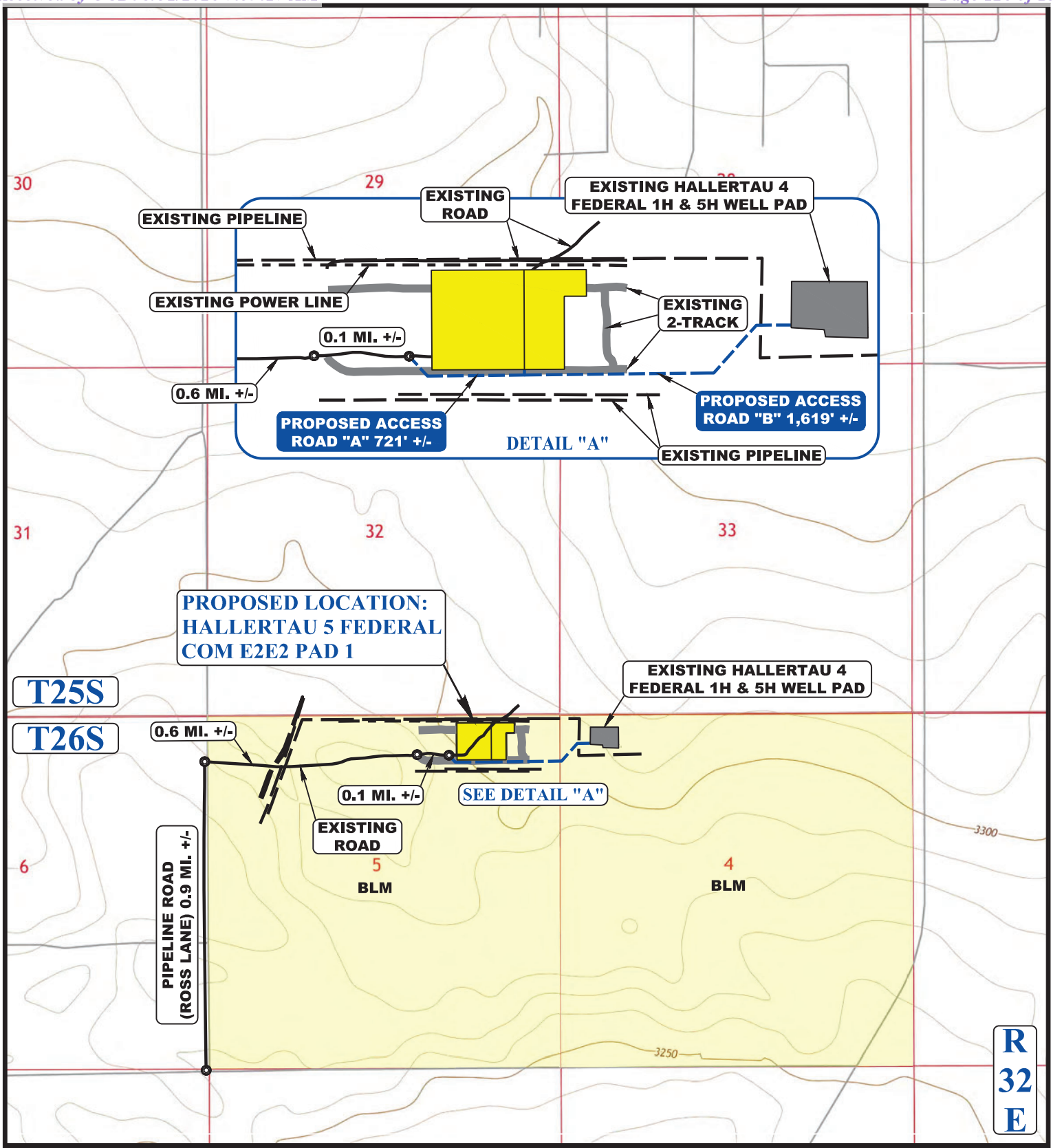
COTERRA ENERGY OPERATING CO.

HALLERTAU 5 EXISTING ROAD ON BLM LANDS IN SECTION 5, T26S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	1" = 1000'
FILE	COT01-25-0210-A		
EXISTING ROAD R-O-W			EXHIBIT D

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

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

LEGEND:

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

UINTAH ENGINEERING & LAND SURVEYING

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

N

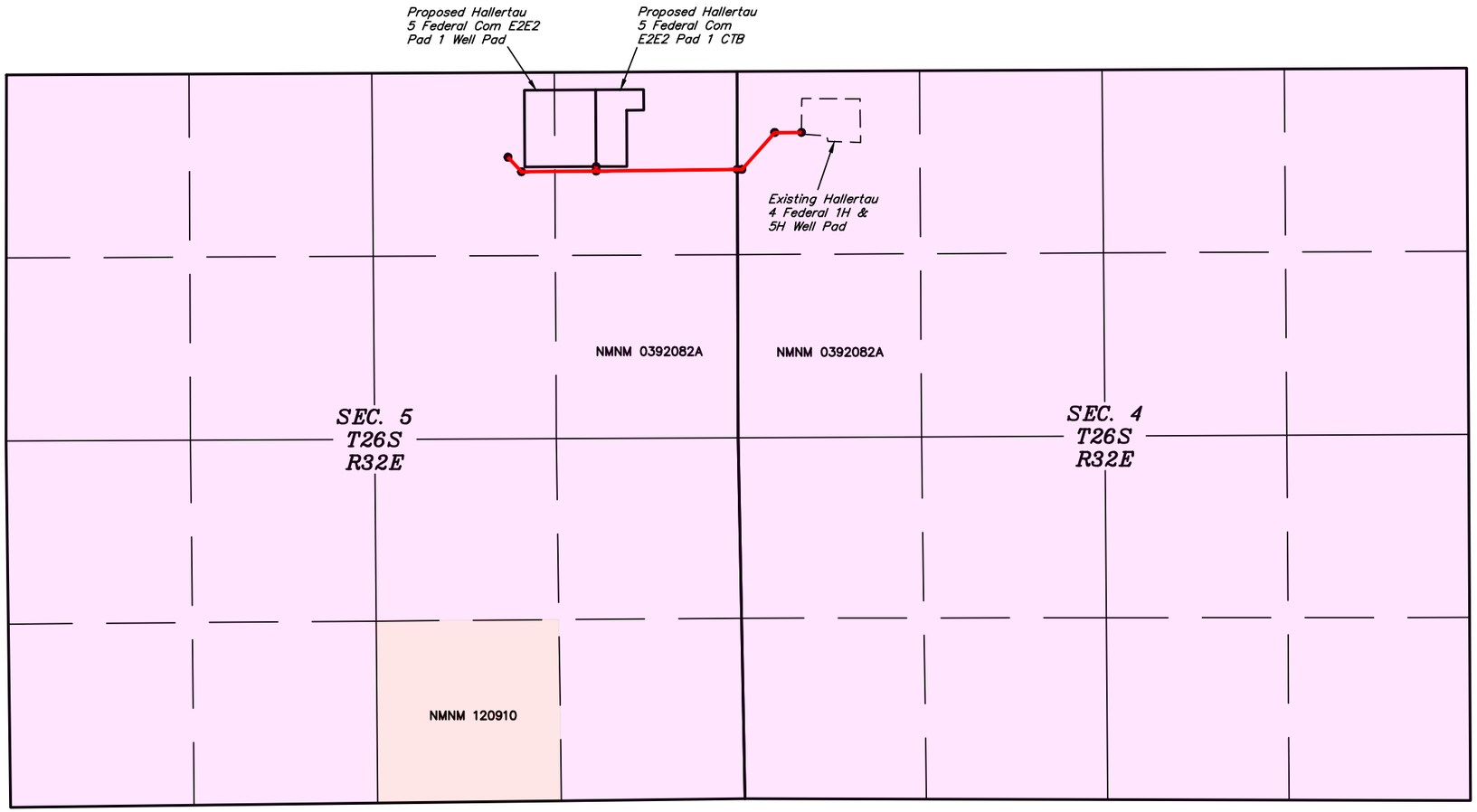
COTERRA ENERGY OPERATING CO.

HALLERTAU 5 FEDERAL COM E2E2 PAD 1
409' FNL 1,290' FEL (APPROX. CENTER OF PAD)
N 1/2 NE 1/4, SECTION 5, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-09-25	1 : 12,000

NEW ROAD MAP | **EXHIBIT D**

Page 127 of 159



LEGEND:

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

NOTE:

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

N

UINTAH ENGINEERING & LAND SURVEYING

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

COTERRA ENERGY OPERATING CO.

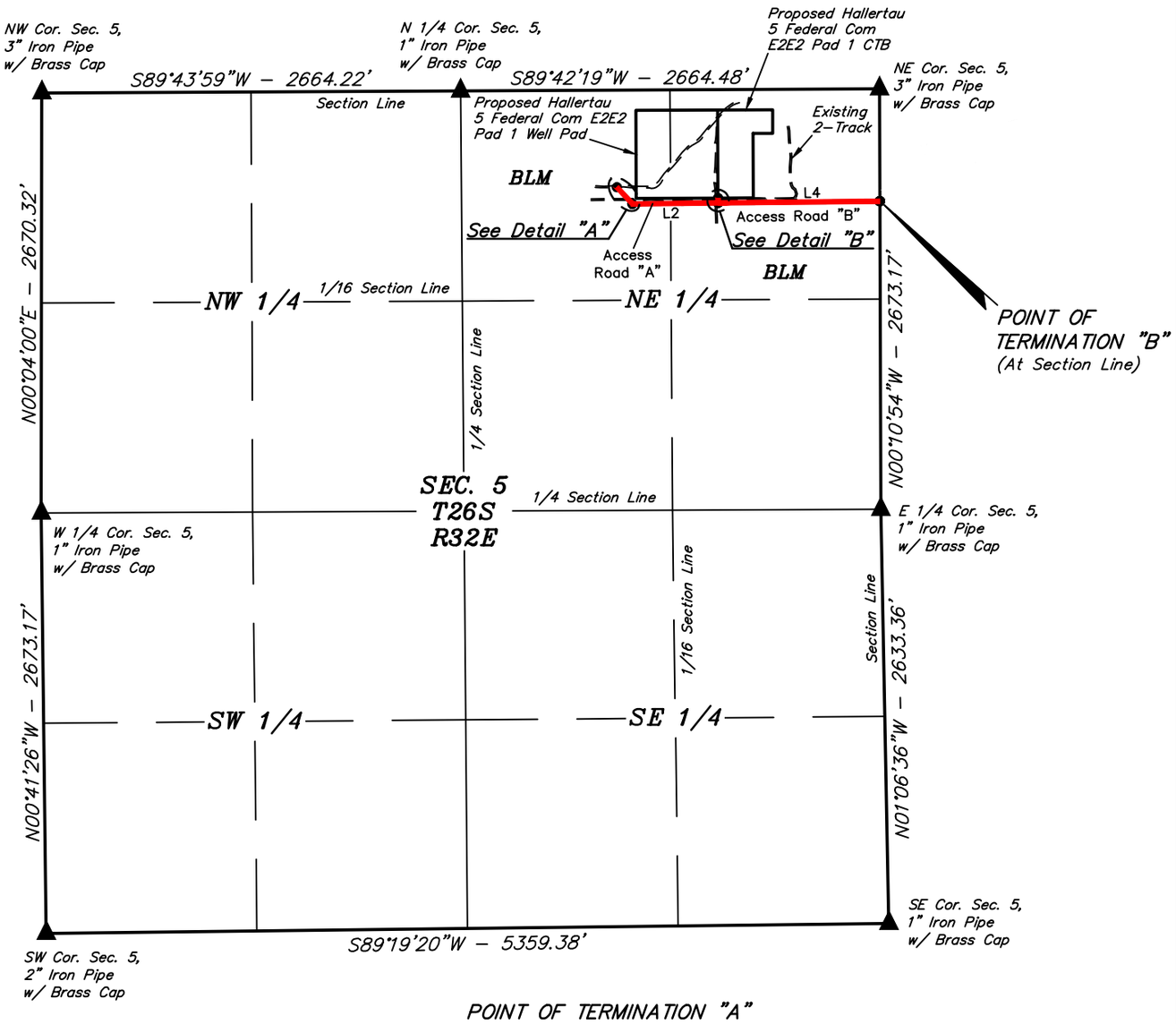
HALLERTAU 5 FEDERAL COM E2E2 PAD 1
ON BLM LANDS
SECTIONS 4 & 5, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

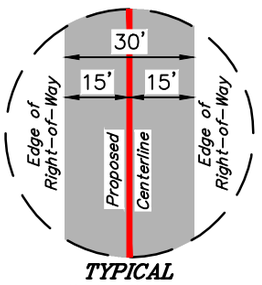
SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	N/A

OVERALL ACCESS ROAD MAP

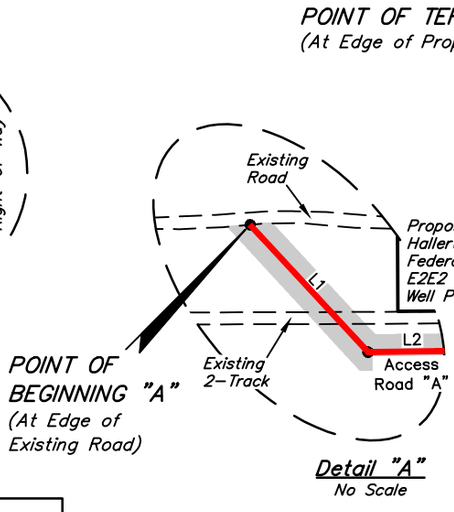
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Page 128 of 159

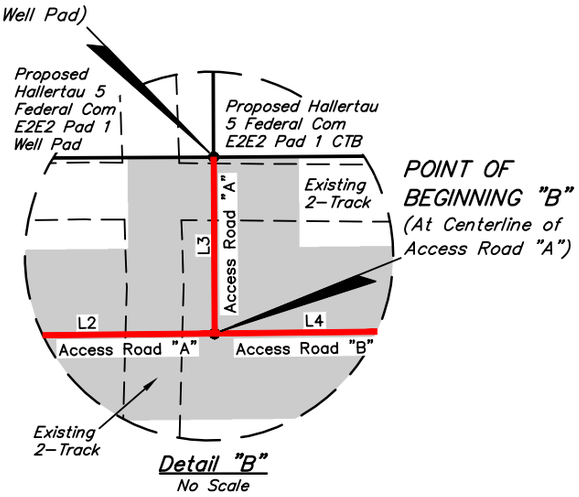




TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE



Detail "A"
No Scale



Detail "B"
No Scale

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S42°48'50"E	144.55'
L2	N89°23'23"E	545.05'
L3	N00°17'41"W	31.00'
L4	N89°23'23"E	1029.38'

ACREAGE / LENGTH TABLE ACCESS ROAD "A"			
LOCATION	FEET	RODS	ACRES
SEC. 5 (NE 1/4)	720.60	43.67	0.496

ACREAGE / LENGTH TABLE ACCESS ROAD "B"			
LOCATION	FEET	RODS	ACRES
SEC. 5 (NE 1/4)	1029.38	62.39	0.709

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
Frank Buchelli
01-09-26
PROFESSIONAL SURVEYOR

NOTES:

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

COTERRA ENERGY OPERATING CO.

HALLERTAU 5 FEDERAL COM E2E2 PAD 1 ON BLM LANDS SECTION 5, T26S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-09-26	1" = 1000'
FILE	COT01-25-0207-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

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Page 129 of 159

ACCESS ROAD "A" RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 5, T26S, R32E, N.M.P.M., FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 5 BEARS N89°42'19"E 2664.48', THENCE S58°23'39"E 1167.26' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF BEGINNING; THENCE S42°48'50"E 144.55'; THENCE N89°23'23"E 545.05'; THENCE N00°17'41"W 31.00' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S55°55'51"W 1240.05' FROM THE NORTHEAST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.496 ACRES MORE OR LESS.

ACCESS ROAD "B" RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M., FROM WHICH THE EAST 1/4 CORNER OF SAID SECTION 5 BEARS S00°10'54"E 2673.17', THENCE S54°45'24"W 1257.55' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF BEGINNING; THENCE N89°23'23"E 1029.38' TO A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S00°10'54"E 714.71' FROM THE NORTHEAST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.709 ACRES MORE OR LESS.

POINT OF BEGINNING "A" BEARS S58°23'39"E
1167.26' FROM THE NORTH 1/4 CORNER OF
SECTION 5, T26S, R32E, N.M.P.M.

POINT OF TERMINATION "A" BEARS S55°55'51"W
1240.05' FROM THE NORTHEAST CORNER OF
SECTION 5, T26S, R32E, N.M.P.M.

POINT OF BEGINNING "B" BEARS S54°45'24"W
1257.55' FROM THE NORTHEAST CORNER OF
SECTION 5, T26S, R32E, N.M.P.M.

POINT OF TERMINATION "B" BEARS S00°10'54"E
714.71' FROM THE NORTHEAST CORNER OF
SECTION 5, T26S, R32E, N.M.P.M.

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BASIN SURVEYS — NEW MEXICO — 23782 — PROFESSIONAL SURVEYOR — 01-09-26

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

COTERRA ENERGY OPERATING CO.

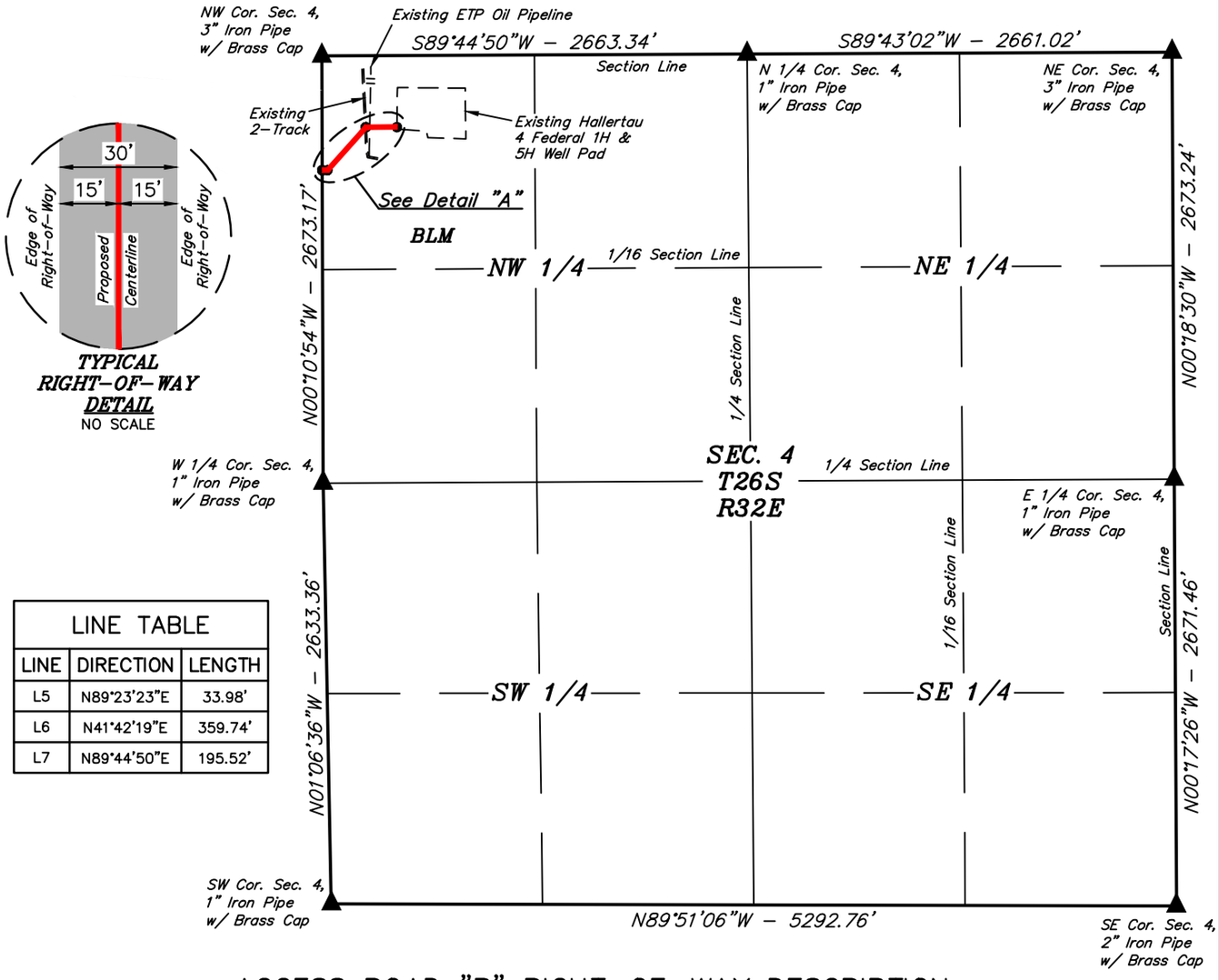
HALLERTAU 5 FEDERAL COM E2E2 PAD 1
ON BLM LANDS
SECTION 5, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-09-26	N/A
FILE	COT01-25-0207-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

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Page 130 of 159

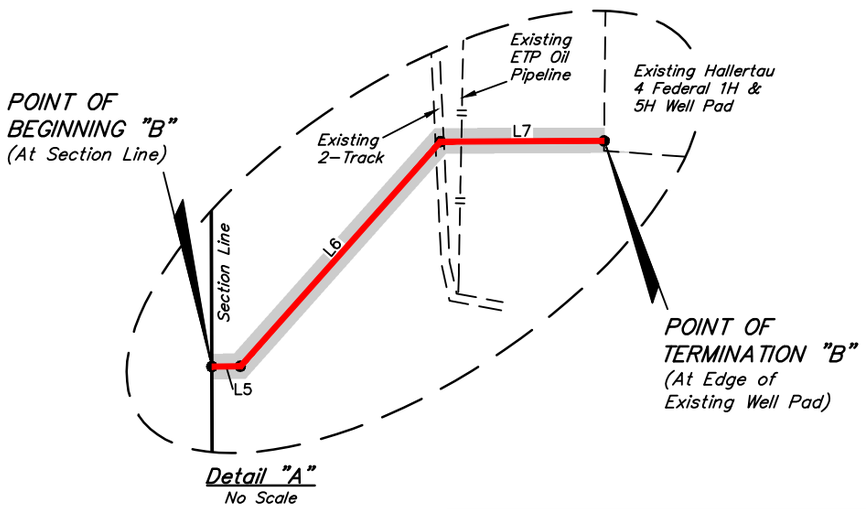


LINE TABLE		
LINE	DIRECTION	LENGTH
L5	N89°23'23"E	33.98'
L6	N41°42'19"E	359.74'
L7	N89°44'50"E	195.52'

ACCESS ROAD "B" RIGHT-OF-WAY DESCRIPTION

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

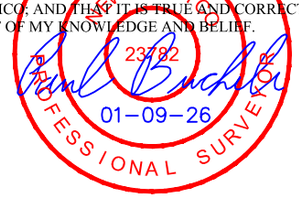
COMMENCING AT THE NORTHWEST CORNER OF SECTION 4, T26S, R32E, N.M.P.M., FROM WHICH THE WEST CORNER OF SAID SECTION 4 BEARS S00°10'54"E 2673.17', THENCE S00°10'54"E 714.71' ALONG THE WEST LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 4 AND THE POINT OF BEGINNING; THENCE N89°23'23"E 33.98'; THENCE N41°42'19"E 359.74'; THENCE N89°44'50"E 195.52' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 4 AND THE POINT OF TERMINATION, WHICH BEARS S46°38'17"E 647.98' FROM THE NORTHWEST CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.406 ACRES MORE OR LESS.



POINT OF BEGINNING "B" BEARS S00°10'54"E 714.71' FROM THE NORTHWEST CORNER OF SECTION 4, T26S, R32E, N.M.P.M.

POINT OF TERMINATION "B" BEARS S46°38'17"E 647.98' FROM THE NORTHWEST CORNER OF SECTION 4, T26S, R32E, N.M.P.M.

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



ACREAGE / LENGTH TABLE ACCESS ROAD "B"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NW 1/4)	589.24	35.71	0.406

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

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



COTERRA ENERGY OPERATING CO.

HALLERTAU 5 FEDERAL COM E2E2 PAD 1 ON BLM LANDS SECTION 4, T26S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

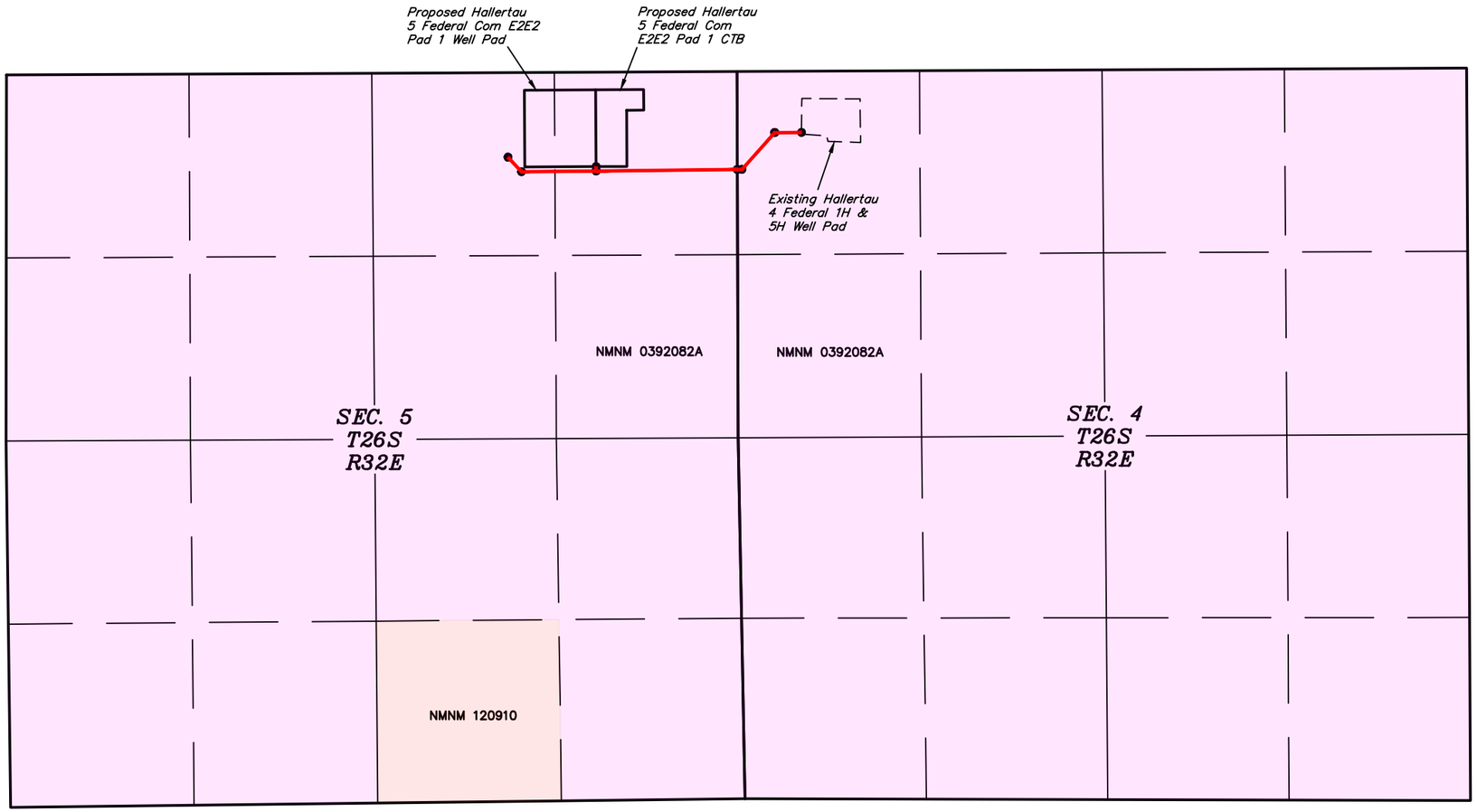
SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-09-26	1" = 1000'
FILE	COT01-25-0207-B		

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

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Page 131 of 159



LEGEND:

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

NOTE:

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

N

UINTAH ENGINEERING & LAND SURVEYING

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

COTERRA ENERGY OPERATING CO.

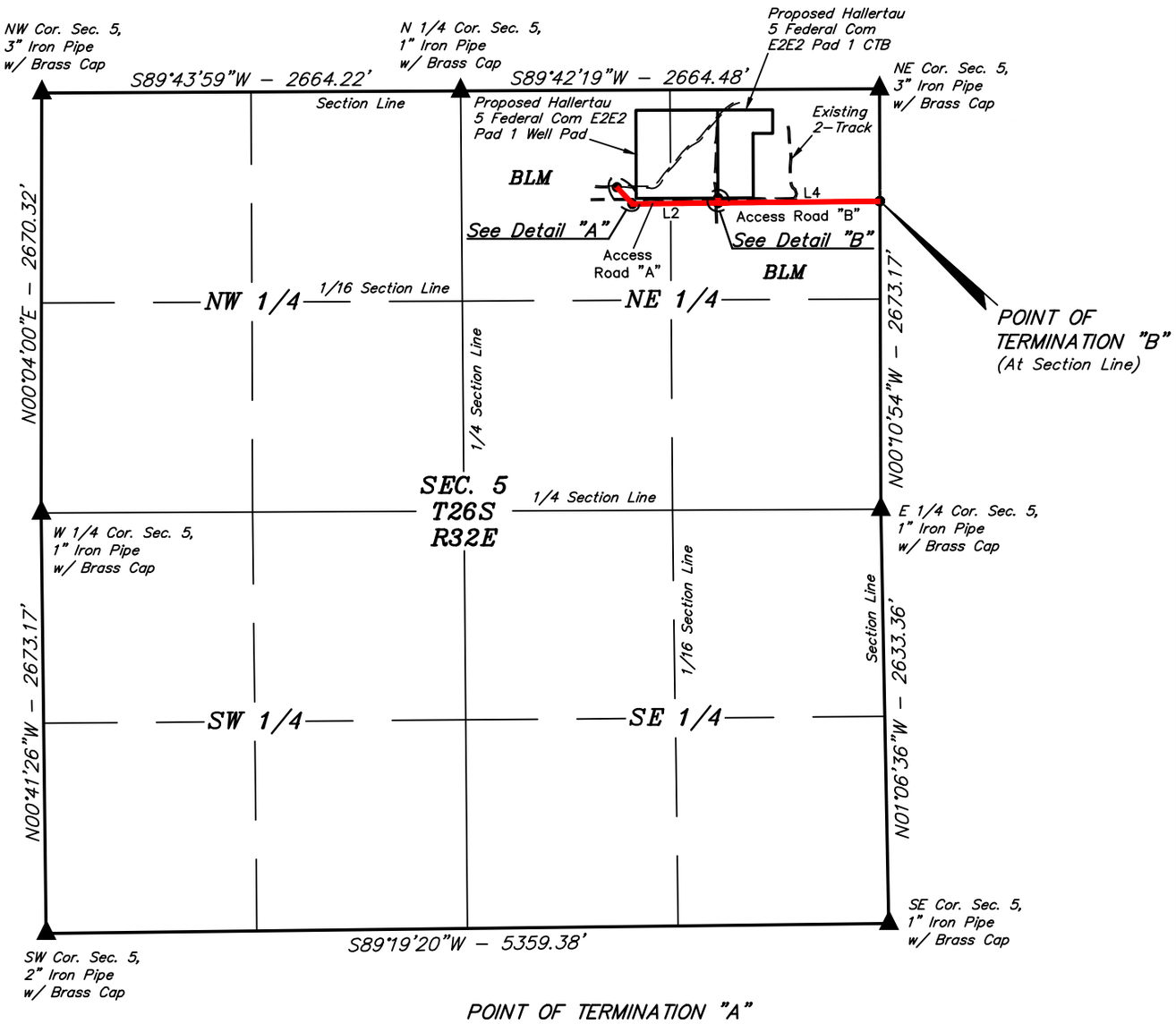
HALLERTAU 5 FEDERAL COM E2E2 PAD 1
ON BLM LANDS
SECTIONS 4 & 5, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

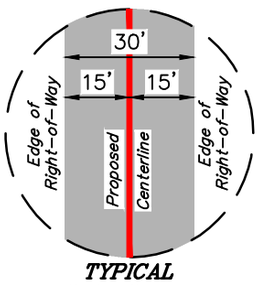
SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	N/A

OVERALL ACCESS ROAD MAP

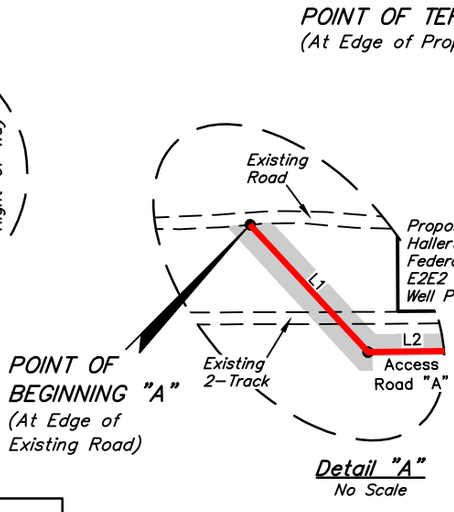
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Page 132 of 159

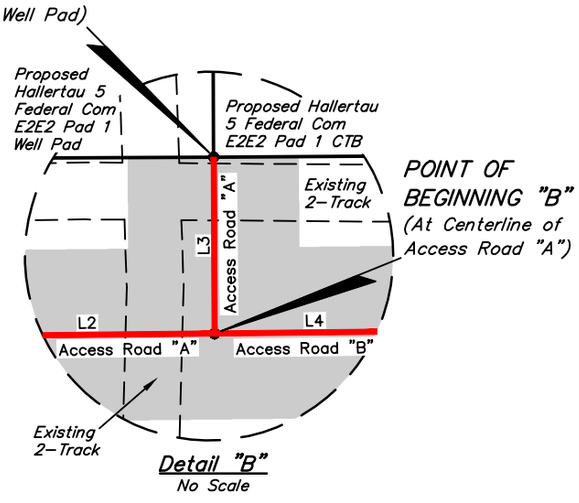




TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE



Detail "A"
No Scale



Detail "B"
No Scale

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S42°48'50"E	144.55'
L2	N89°23'23"E	545.05'
L3	N00°17'41"W	31.00'
L4	N89°23'23"E	1029.38'

ACREAGE / LENGTH TABLE ACCESS ROAD "A"			
LOCATION	FEET	RODS	ACRES
SEC. 5 (NE 1/4)	720.60	43.67	0.496

ACREAGE / LENGTH TABLE ACCESS ROAD "B"			
LOCATION	FEET	RODS	ACRES
SEC. 5 (NE 1/4)	1029.38	62.39	0.709

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

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STATE OF NEW MEXICO
23782
Frank Buchelo
01-09-26
PROFESSIONAL SURVEYOR

Sheet 1 of 2

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

COTERRA ENERGY OPERATING CO.

HALLERTAU 5 FEDERAL COM E2E2 PAD 1 ON BLM LANDS SECTION 5, T26S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-09-26	1" = 1000'
FILE	COT01-25-0207-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

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Page 133 of 159

ACCESS ROAD "A" RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 5, T26S, R32E, N.M.P.M., FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 5 BEARS N89°42'19"E 2664.48', THENCE S58°23'39"E 1167.26' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF BEGINNING; THENCE S42°48'50"E 144.55'; THENCE N89°23'23"E 545.05'; THENCE N00°17'41"W 31.00' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S55°55'51"W 1240.05' FROM THE NORTHEAST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.496 ACRES MORE OR LESS.

ACCESS ROAD "B" RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M., FROM WHICH THE EAST 1/4 CORNER OF SAID SECTION 5 BEARS S00°10'54"E 2673.17', THENCE S54°45'24"W 1257.55' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF BEGINNING; THENCE N89°23'23"E 1029.38' TO A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S00°10'54"E 714.71' FROM THE NORTHEAST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.709 ACRES MORE OR LESS.

POINT OF BEGINNING "A" BEARS S58°23'39"E
1167.26' FROM THE NORTH 1/4 CORNER OF
SECTION 5, T26S, R32E, N.M.P.M.

POINT OF TERMINATION "A" BEARS S55°55'51"W
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SECTION 5, T26S, R32E, N.M.P.M.

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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
01-09-26

NOTES:

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

COTERRA ENERGY OPERATING CO.

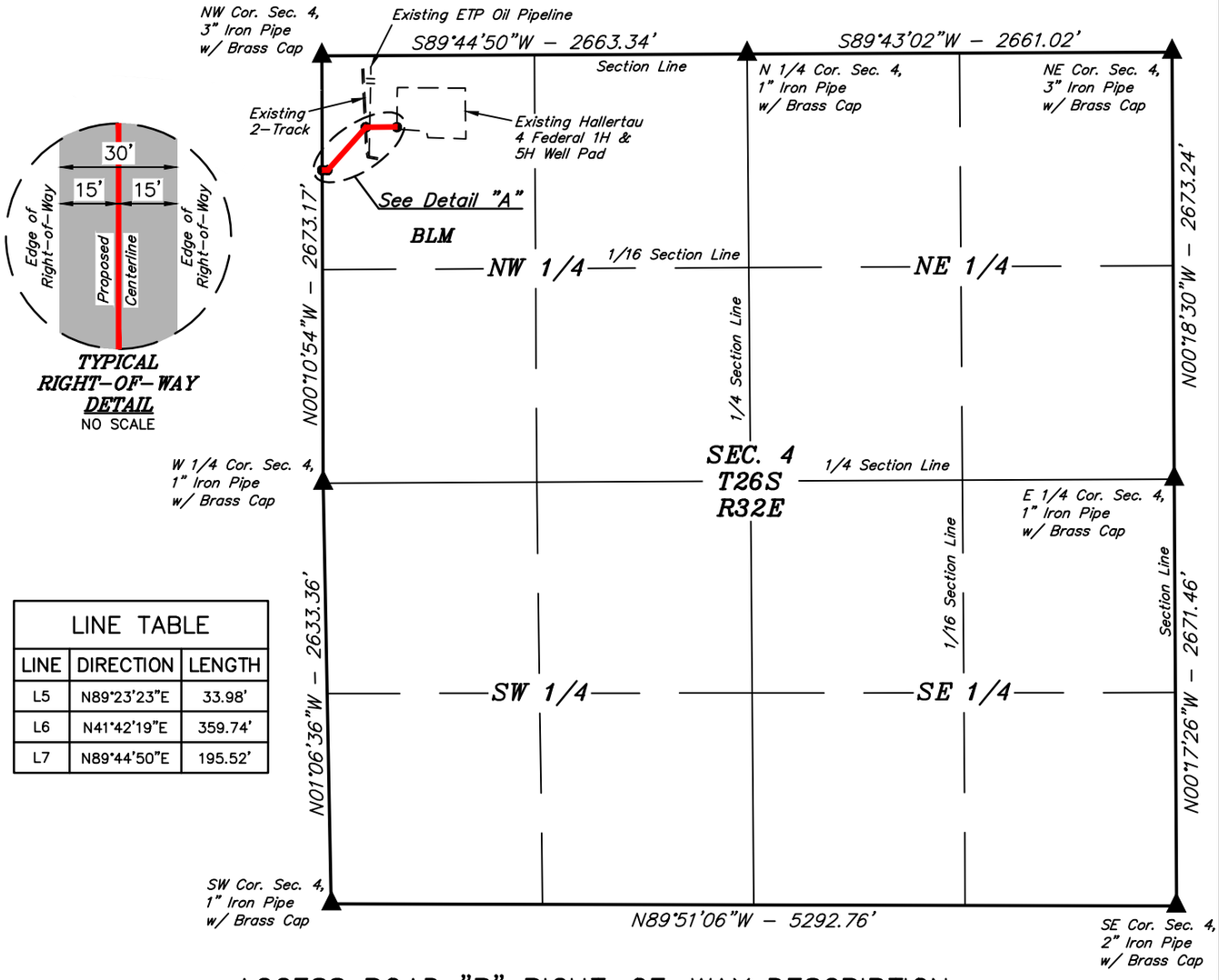
HALLERTAU 5 FEDERAL COM E2E2 PAD 1
ON BLM LANDS
SECTION 5, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-09-26	N/A
FILE	COT01-25-0207-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

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Page 134 of 159



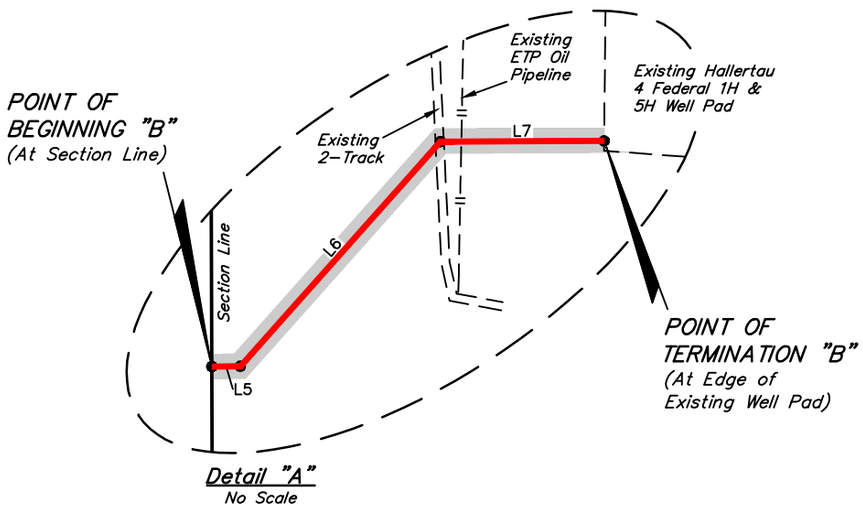
TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L5	N89°23'23"E	33.98'
L6	N41°42'19"E	359.74'
L7	N89°44'50"E	195.52'

ACCESS ROAD "B" RIGHT–OF–WAY DESCRIPTION

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

COMMENCING AT THE NORTHWEST CORNER OF SECTION 4, T26S, R32E, N.M.P.M., FROM WHICH THE WEST CORNER OF SAID SECTION 4 BEARS S00°10'54"E 2673.17', THENCE S00°10'54"E 714.71' ALONG THE WEST LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 4 AND THE POINT OF BEGINNING; THENCE N89°23'23"E 33.98'; THENCE N41°42'19"E 359.74'; THENCE N89°44'50"E 195.52' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 4 AND THE POINT OF TERMINATION, WHICH BEARS S46°38'17"E 647.98' FROM THE NORTHWEST CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.406 ACRES MORE OR LESS.



POINT OF BEGINNING "B" BEARS S00°10'54"E 714.71' FROM THE NORTHWEST CORNER OF SECTION 4, T26S, R32E, N.M.P.M.

POINT OF TERMINATION "B" BEARS S46°38'17"E 647.98' FROM THE NORTHWEST CORNER OF SECTION 4, T26S, R32E, N.M.P.M.



▲ = SECTION CORNERS LOCATED.

ACREAGE / LENGTH TABLE ACCESS ROAD "B"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NW 1/4)	589.24	35.71	0.406

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
01–09–26

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

UINTAH ENGINEERING & LAND SURVEYING

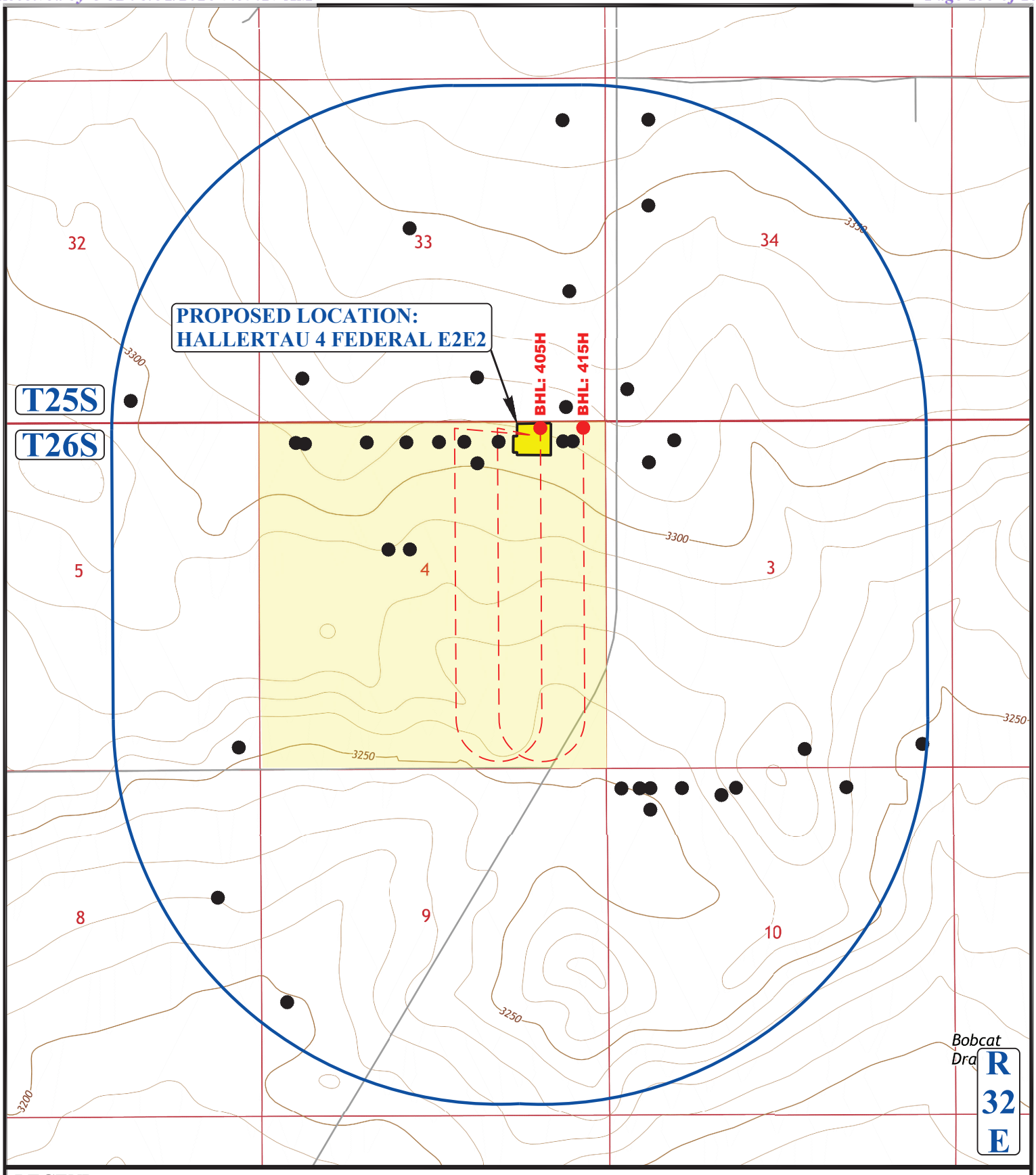
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

COTERRA ENERGY OPERATING CO.

HALLERTAU 5 FEDERAL COM E2E2 PAD 1
ON BLM LANDS
SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-09-26	1" = 1000'
FILE	COT01-25-0207-B		
ACCESS ROAD R-O-W			EXHIBIT D

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LEGEND:

● EXISTING WELLS

N

COTERRA ENERGY OPERATING CO.

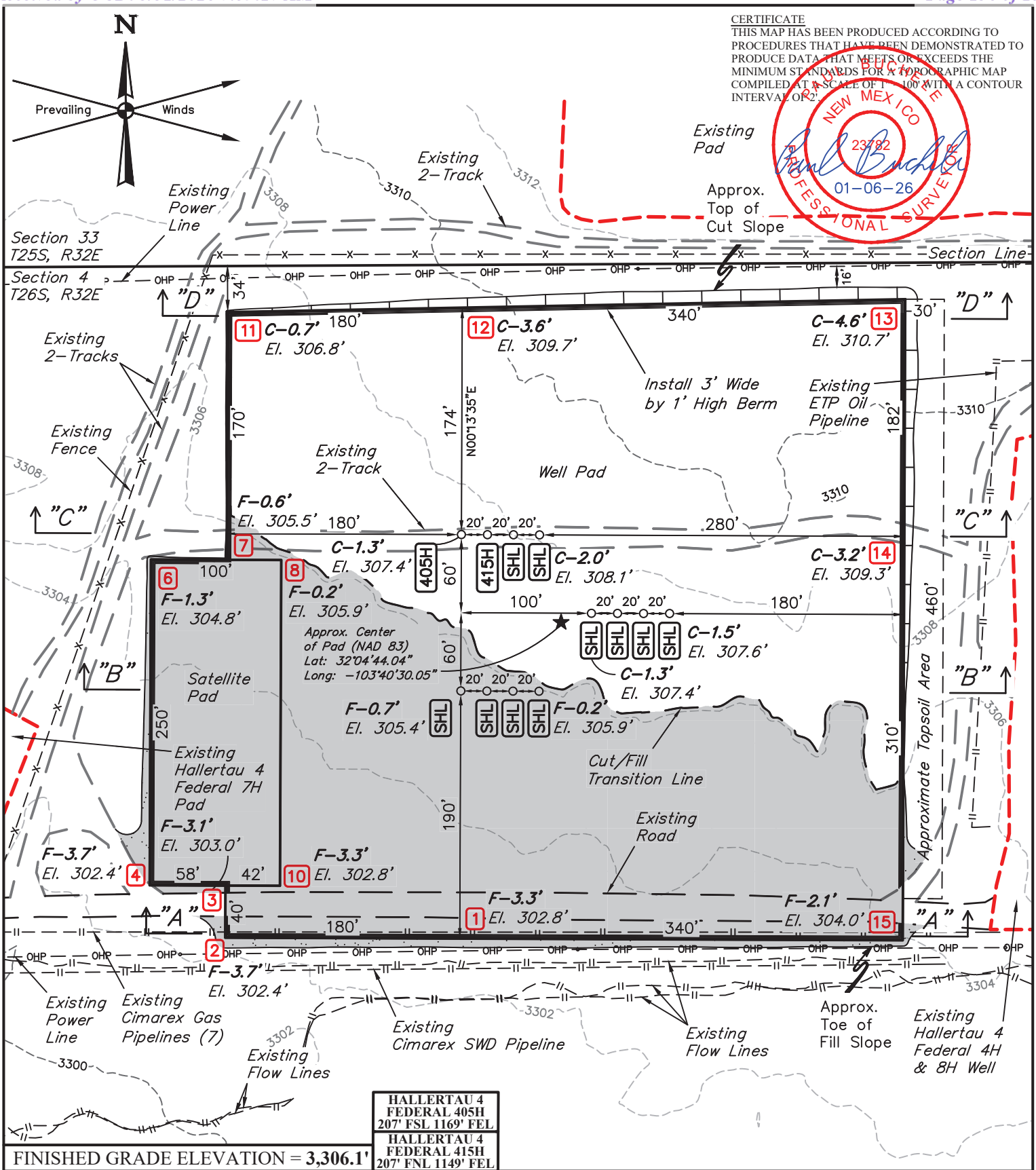
HALLERTAU 4 FEDERAL E2E2
275' FNL 1,093' FEL (APPROX. CENTER OF PAD)
NE 1/4 NE 1/4, SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	N.R.	01-06-26	1 : 24,000

WELL PROXIMITY MAP | **EXHIBIT E**

UINTAH ENGINEERING & LAND SURVEYING

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



FINISHED GRADE ELEVATION = **3,306.1'**

HALLERTAU 4 FEDERAL 405H
207' FSL 1169' FEL

HALLERTAU 4 FEDERAL 415H
207' FNL 1149' FEL

NOTES:

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

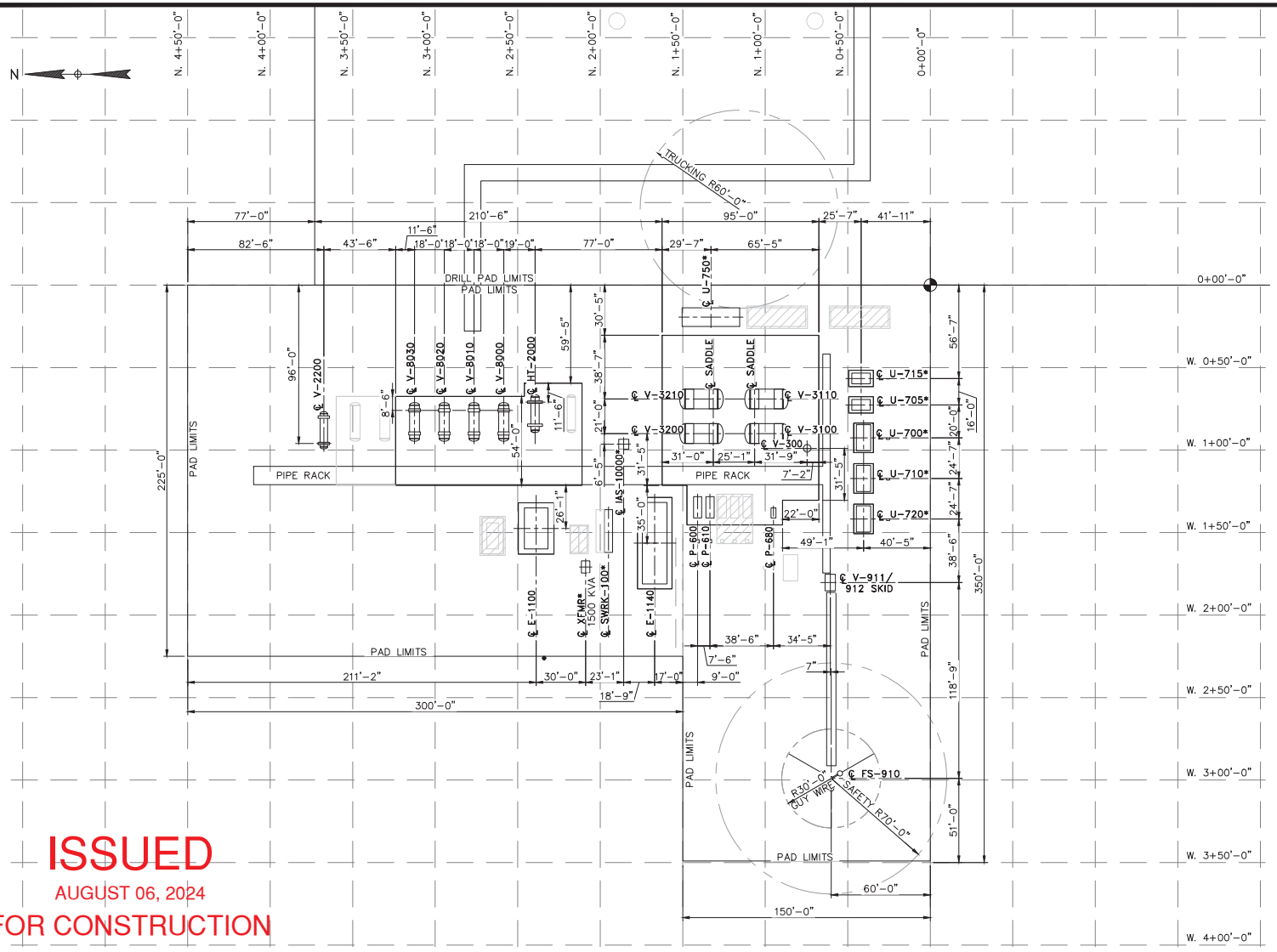
COTERRA ENERGY OPERATING CO.

HALLERTAU 4 FEDERAL E2E2
275' FNL 1,093' FEL (APPROX. CENTER OF PAD)
NE 1/4 NE 1/4, SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	N.R.	01-06-26	1" = 100'
LOCATION LAYOUT			EXHIBIT J

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

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EQUIPMENT		
TAG	DESCRIPTION	HP
V-300	VAPOR RECOVERY TOWER 36" OD x 40' S/S	
P-600	SKIDDED TRANSFER PUMP	10
P-610	SKIDDED TRANSFER PUMP	10
P-680	PCP RECIRCULATION PUMP	5
U-700	FX12V125	12
U-705	G10	10
U-710	FX17V150	15
U-715	G10	10
U-720	FX17V150	15
U-750	PIPELINE W/ BOOSTER	21
FS-910	TRIPOD 3.0/1.5 MMSCFD DUAL FLARE STACK	20
V-911/912	FS-910 DUAL SCRUBBER SKID	5
E-1100	OIL COOLER H-13-24 HZ 16K	40
E-1140	H-10-2-28 WATER COOLER	40
HT-2000	HZ HEATER TREATER 60" OD x 20' S/S	
V-2200	2PH HZ LP GAS SCRUBBER 54" OD x 20' S/S	
V-3100	500 BBL OIL VESSEL 12' OD x 20' S/S	
V-3110	500 BBL OIL VESSEL 12' OD x 20' S/S	
V-3200	500 BBL WATER VESSEL 12' OD x 20' S/S	
V-3210	500 BBL WATER VESSEL 12' OD x 20' S/S	
V-8000	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8010	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8020	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
V-8030	3PH HZ TEST SEPARATOR 72" OD x 20' S/S	
IAS-10000	AIR COMPRESSOR	(2) 7.5

LEGEND

FUTURE

ISSUED

AUGUST 06, 2024

FOR CONSTRUCTION

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

NOTE:

LP B4P6; SWEET;

* FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION

REFERENCE DRAWINGS	
NO.	TITLE

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

3S Engineering & Design
Midland, Texas 79705
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:	NR	07/10/24
DES:	JAV	
CHK:		
APP:		
AFE No.		
FACILITY ENGR.	C. BOYLE	
PROJ. ENGR:	J. MEDINA	
SCALE:	NONE	

COTERRA

GENERAL ARRANGEMENT PLOT PLAN

LEA COUNTY

PLOT SCALE NONE

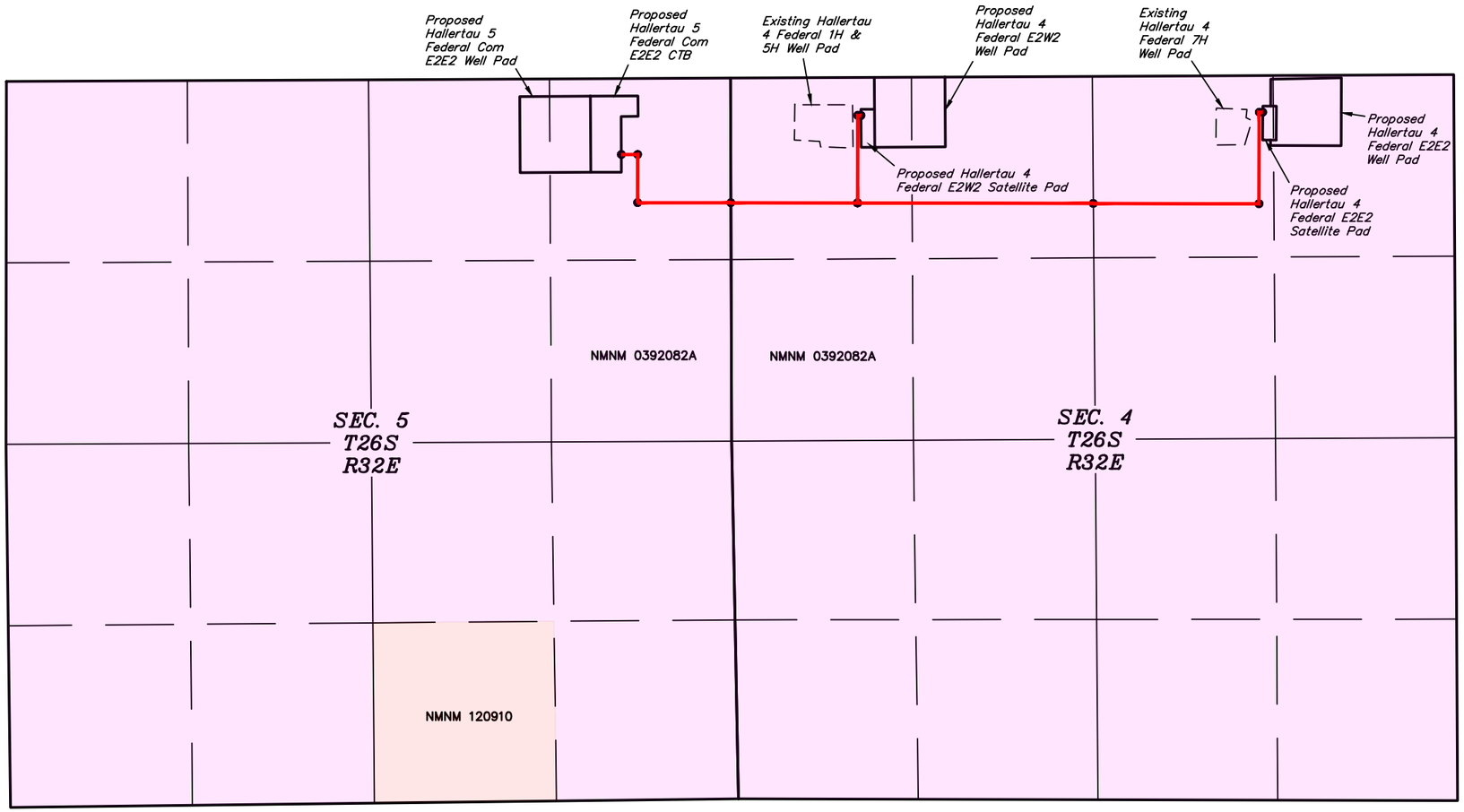
DWG. NO. D-24550-20-100

CAD NO.

REV. 0

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

Page 138 of 159



PROPOSED POWER LINE CENTERLINE
PROPOSED ANCHOR CENTERLINE
SECTION LINE
1/4 SECTION LINE
1/16 SECTION LINE

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

N

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Vernal, UT 84078 * (435) 789-1017

COTERRA ENERGY OPERATING CO.

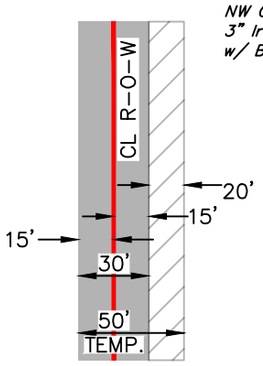
HALLERTAU 5-4 BULK LINE NETWORK
ON BLM LANDS IN
SECTIONS 4 & 5, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	N/A

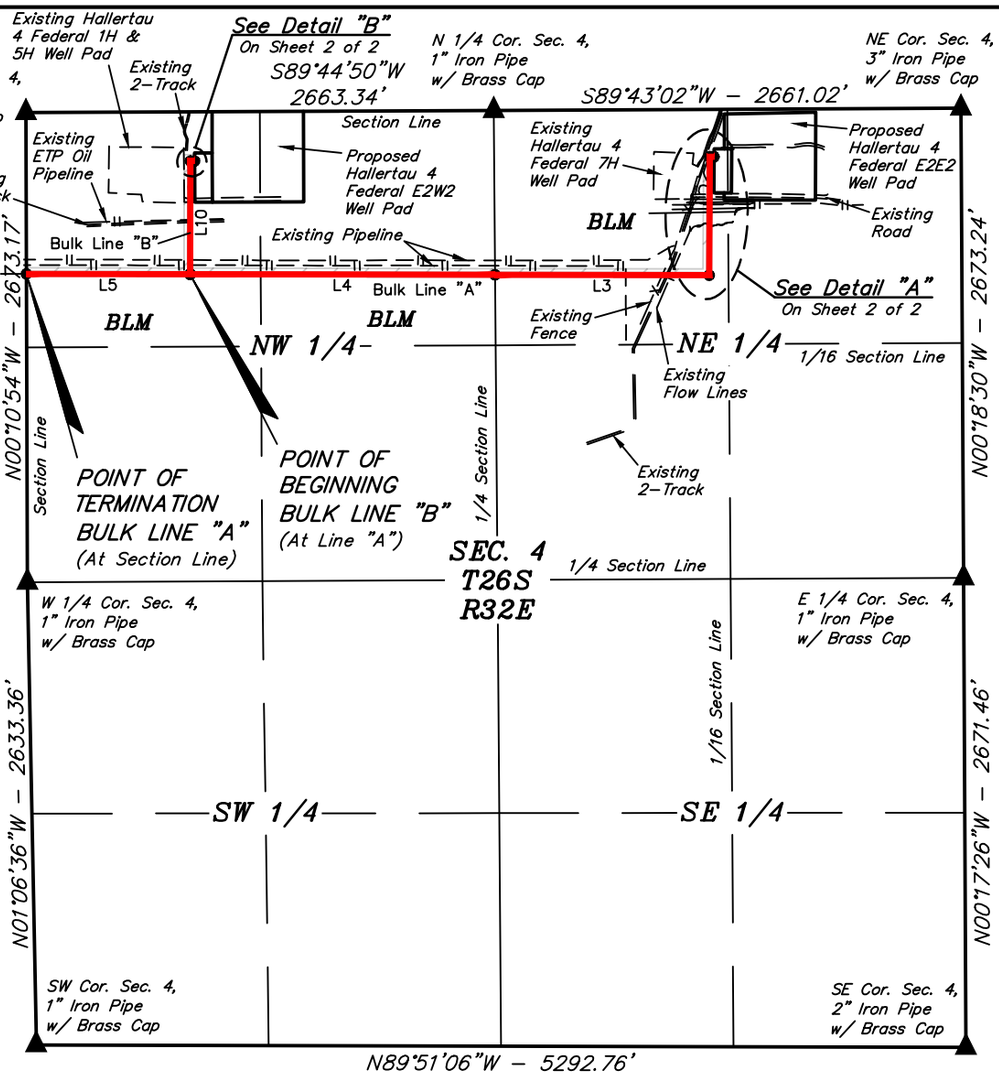
OVERALL BULK LINE

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Page 139 of 159



TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°46'25"W	24.95'
L2	S00°13'35"W	674.08'
L3	N89°53'25"W	1219.73'
L4	N89°53'25"W	1735.25'
L5	N89°53'25"W	932.63'
L9	N89°52'58"W	23.97'
L10	S00°07'02"W	644.57'

BULK LINE "A" RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 20' WIDE TEMPORARY RIGHT-OF-WAY ON THE RIGHT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 50' DURING CONSTRUCTION.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 4, T26S, R32E, N.M.P.M., FROM WHICH THE NORTHWEST CORNER OF SAID SECTION 4 BEARS S89°44'50"W 2663.34', THENCE S78°08'00"E 1282.22' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 4 AND THE POINT OF BEGINNING; THENCE N89°46'25"W 24.95'; THENCE S00°13'35"W 674.08'; THENCE N89°53'25"W 1219.73' TO A POINT ON THE WEST LINE OF THE NW 1/4 NE 1/4 OF SAID SECTION 4; THENCE CONTINUING N89°53'25"W 1735.25'; THENCE CONTINUING N89°53'25"W 932.63' TO A POINT ON THE WEST LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 4 AND THE POINT OF TERMINATION, WHICH BEARS S00°10'54"E 918.45' FROM THE NORTH 1/4 CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 3.158 ACRES MORE OR LESS. TEMPORARY RIGHT-OF-WAY CONTAINS 2.106 ACRES MORE OR LESS.

BULK LINE "B" RIGHT-OF-WAY DESCRIPTION

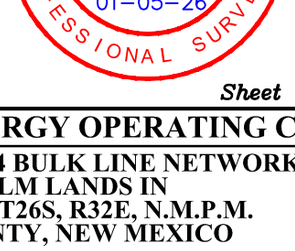
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 20' WIDE TEMPORARY RIGHT-OF-WAY ON THE RIGHT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 50' DURING CONSTRUCTION.

COMMENCING AT THE NORTHWEST CORNER OF SECTION 4, T26S, R32E, N.M.P.M., FROM WHICH THE NORTH 1/4 CORNER OF SAID SECTION 4 BEARS N89°44'50"E 2663.34', THENCE S73°59'21"E 999.60' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 4 AND THE POINT OF BEGINNING; THENCE N89°52'58"W 23.97'; THENCE S00°07'02"W 644.57' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 4 AND THE POINT OF TERMINATION, WHICH BEARS S45°28'21"E 1312.27' FROM THE NORTHWEST CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.460 ACRES MORE OR LESS. TEMPORARY RIGHT-OF-WAY CONTAINS 0.307 ACRES MORE OR LESS.



▲ = 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.



Sheet 1 of 2

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

COTERRA ENERGY OPERATING CO.

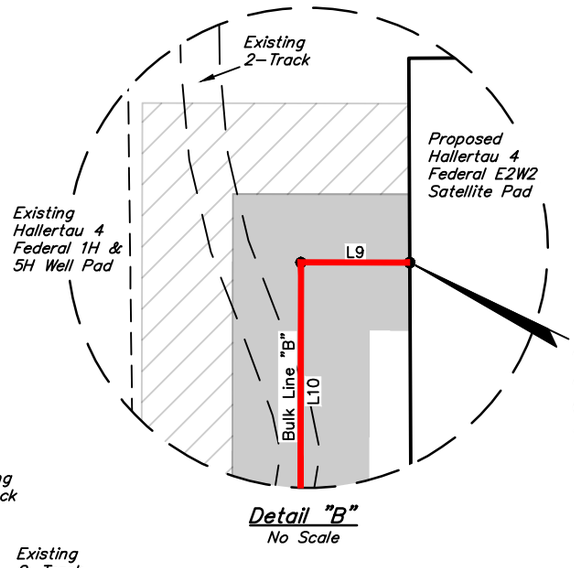
HALLERTAU 5-4 BULK LINE NETWORK ON BLM LANDS IN SECTION 4, T26S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

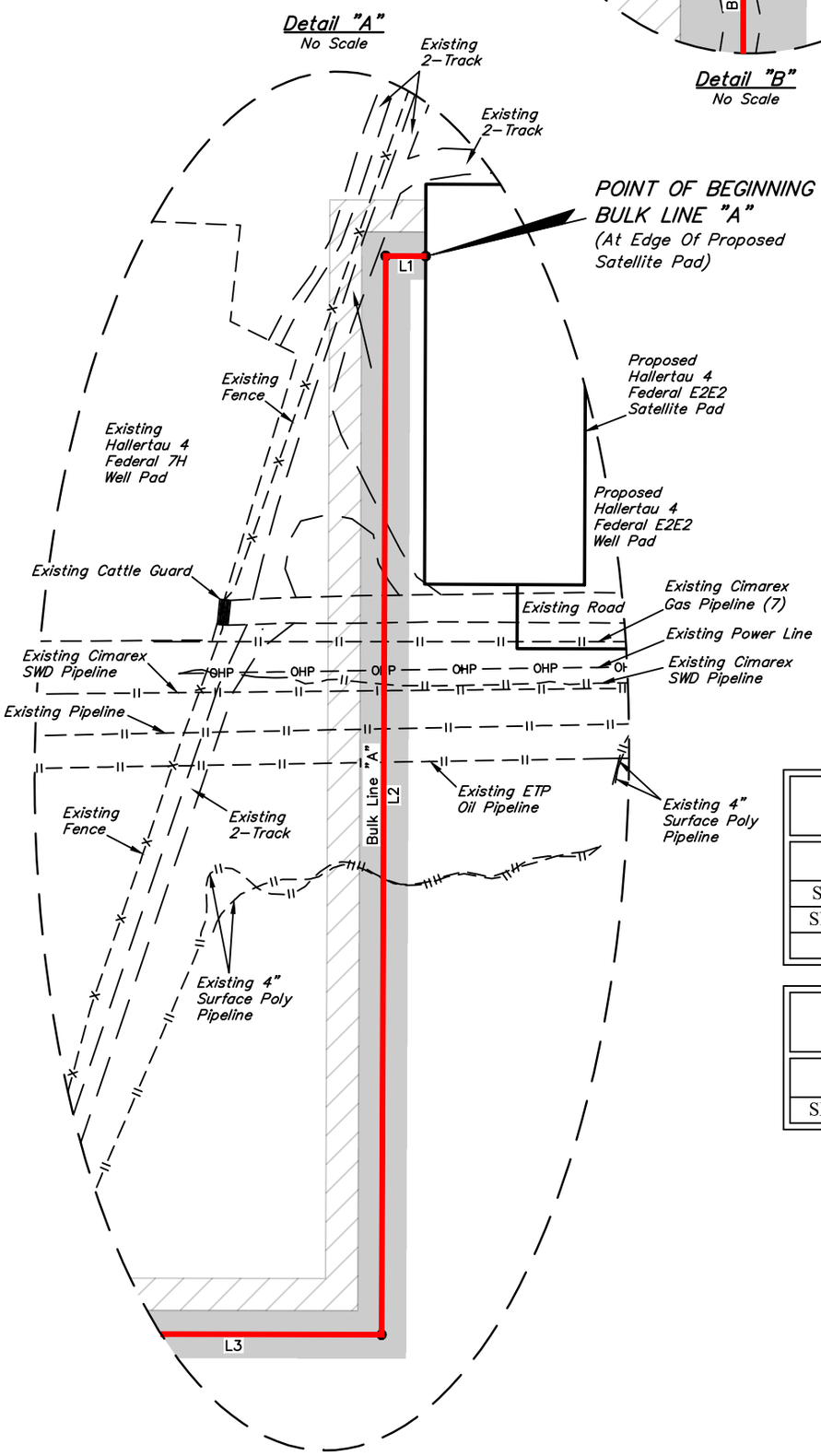
SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	1" = 1000'
FILE	COT01-25-0210-A1		
BULK LINE R-O-W			EXHIBIT M

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

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Page 140 of 159





POINT OF BEGINNING BULK LINE "A" BEARS S78°08'00"E 1282.22' FROM THE NORTH 1/4 CORNER OF SECTION 4, T26S, R32E, N.M.P.M.

POINT OF TERMINATION BULK LINE "A" BEARS S00°10'54"E 918.45' FROM THE NORTHWEST CORNER OF SECTION 4, T26S, R32E, N.M.P.M.

POINT OF BEGINNING BULK LINE "B" BEARS S73°59'21"E 999.60' FROM THE NORTHWEST CORNER OF SECTION 4, T26S, R32E, N.M.P.M.

POINT OF TERMINATION BULK LINE "B" BEARS S45°28'21"E 1312.27' FROM THE NORTHWEST CORNER OF SECTION 4, T26S, R32E, N.M.P.M.

ACREAGE / LENGTH TABLE BULK LINE "A"

LOCATION	FEET	RODS	ACRES	TEMP. ACRES
SEC. 4 (NE 1/4)	1918.76	116.29	1.321	0.881
SEC. 4 (NW 1/4)	2667.88	161.69	1.837	1.225
TOTAL	4586.64	277.98	3.158	2.106

ACREAGE / LENGTH TABLE BULK LINE "B"

LOCATION	FEET	RODS	ACRES	TEMP. ACRES
SEC. 4 (NW 1/4)	668.54	40.52	0.460	0.307

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
01-05-26

NOTES:

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

COTERRA ENERGY OPERATING CO.

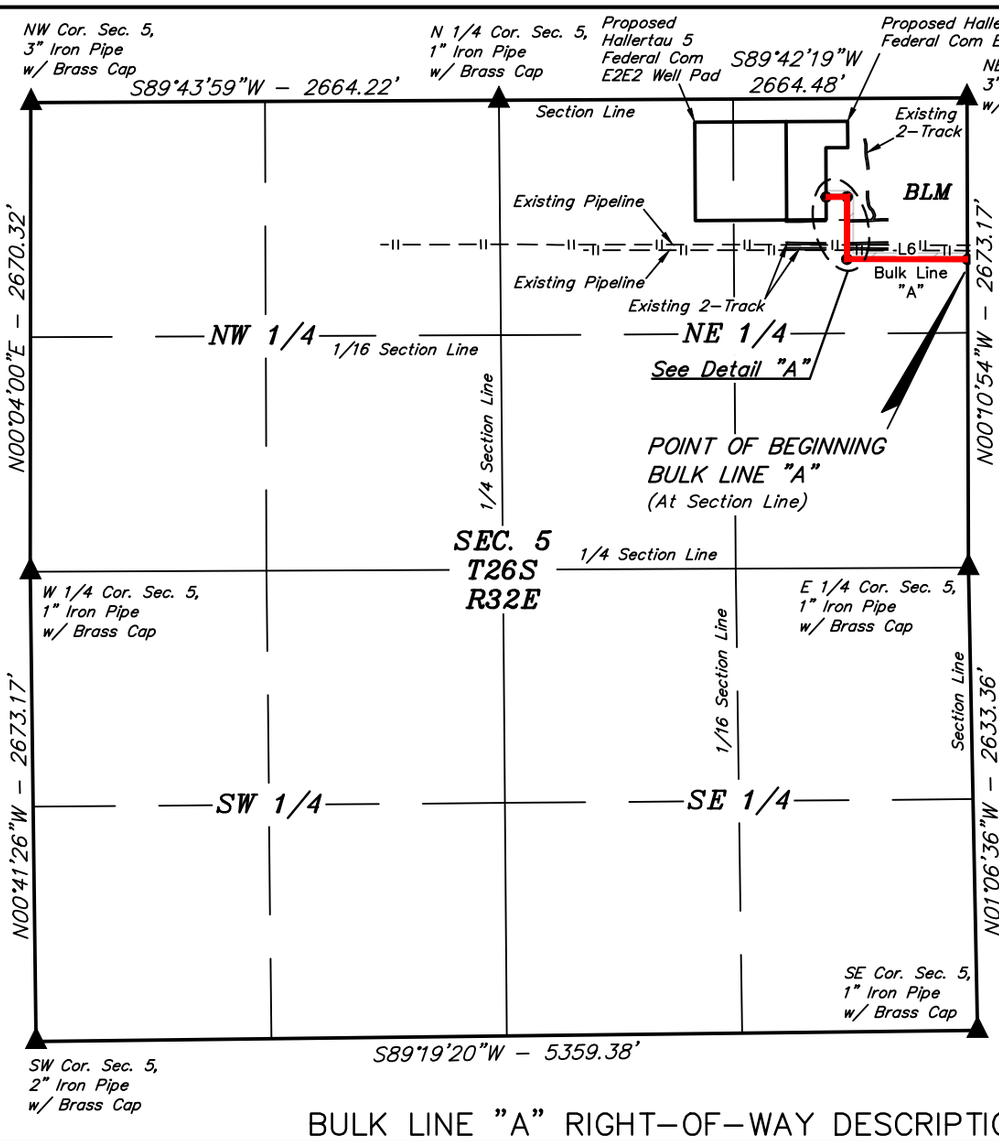
HALLERTAU 5-4 BULK LINE NETWORK ON BLM LANDS IN SECTION 4, T26S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	N/A
FILE	COT01-25-0210-A2		
BULK LINE R-O-W			EXHIBIT M

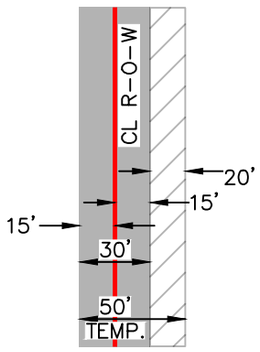
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Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

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Page 141 of 159



LINE TABLE		
LINE	DIRECTION	LENGTH
L6	N89°53'25"W	686.48'
L7	N00°06'35"E	354.24'
L8	S89°42'19"W	120.00'



TYPICAL RIGHT-OF-WAY DETAIL FOR L6-L8
NO SCALE

BULK LINE "A" RIGHT-OF-WAY DESCRIPTION

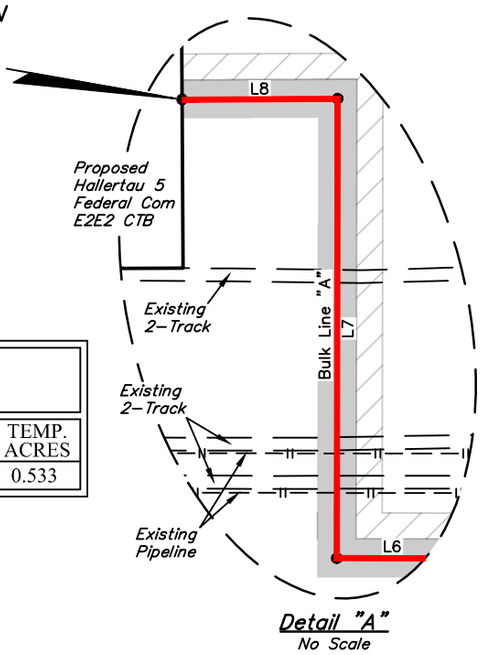
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 20' WIDE TEMPORARY RIGHT-OF-WAY ON THE RIGHT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 50' DURING CONSTRUCTION.

COMMENCING AT THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M., FROM WHICH THE EAST 1/4 CORNER OF SAID SECTION 5 BEARS S00°10'54"E 2673.17', THENCE S00°10'54"E 918.45' ALONG THE EAST LINE OF SAID SECTION 5 TO THE POINT OF BEGINNING; THENCE N89°53'25"W 686.48'; THENCE N00°06'35"E 354.24'; THENCE S89°42'19"W 120.00' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S54°56'11"W 980.90' FROM THE NORTHEAST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.799 ACRES MORE OR LESS. TEMPORARY RIGHT-OF-WAY CONTAINS 0.533 ACRES MORE OR LESS.

POINT OF TERMINATION BULK LINE "A"
(At Edge of Proposed CTB)

POINT OF BEGINNING BULK LINE "A" BEARS S00°10'54"E 918.45' FROM THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

POINT OF TERMINATION BULK LINE "A" BEARS S54°56'11"W 980.90' FROM THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.



Detail "A"
No Scale

ACREAGE / LENGTH TABLE BULK LINE "A"				
LOCATION	FEET	RODS	ACRES	TEMP. ACRES
SEC. 5 (NE 1/4)	1160.72	70.35	0.799	0.533

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.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
Paul Buchheit
01-05-26

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

COTERRA ENERGY OPERATING CO.

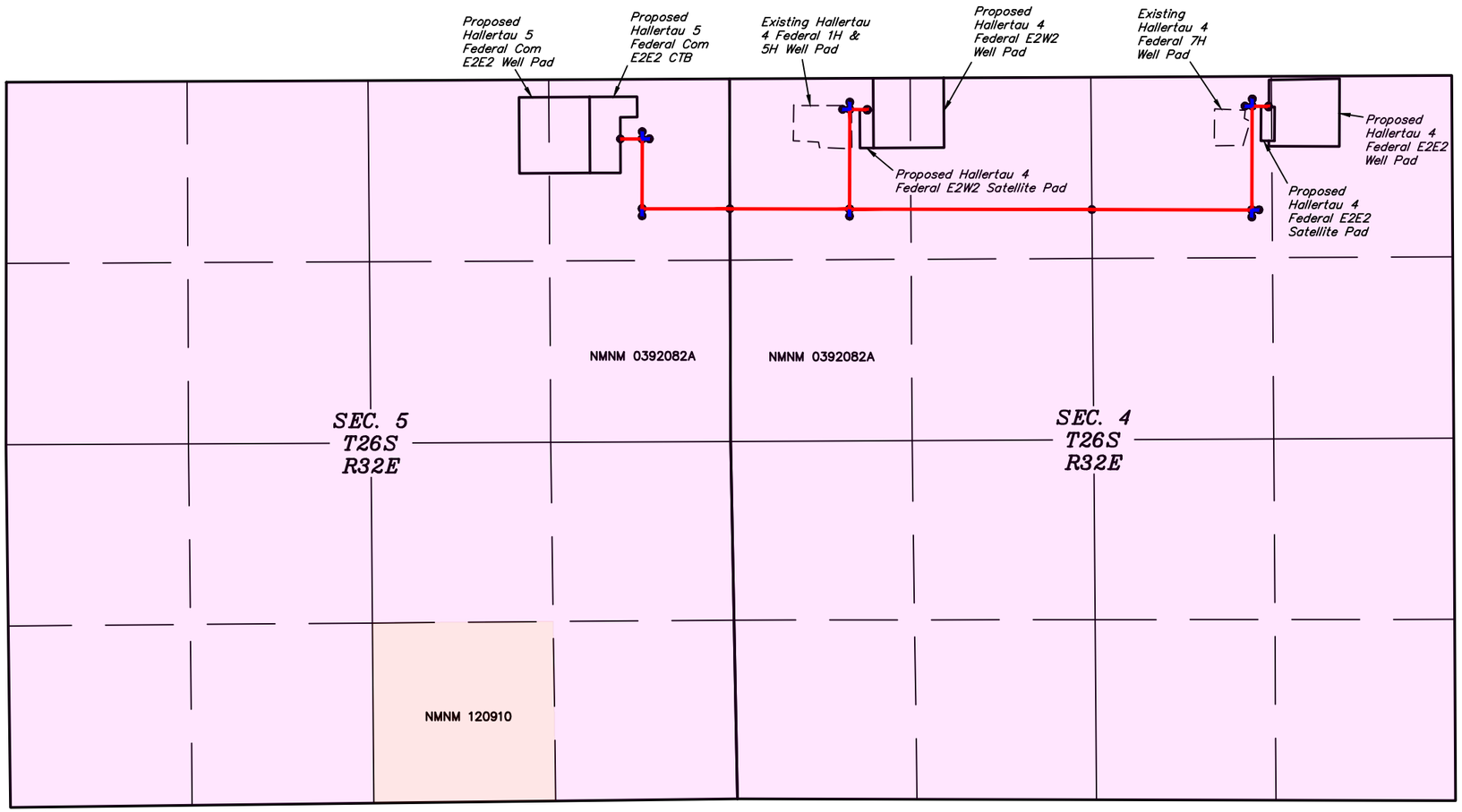
HALLERTAU 5-4 BULK LINE NETWORK ON BLM LANDS IN SECTION 5, T26S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	1" = 1000'
FILE	COT01-25-0210-B		
BULK LINE R-O-W			EXHIBIT M

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
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Page 142 of 159



PROPOSED POWER LINE CENTERLINE
PROPOSED ANCHOR CENTERLINE
SECTION LINE
1/4 SECTION LINE
1/16 SECTION LINE

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

N

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

COTERRA ENERGY OPERATING CO.

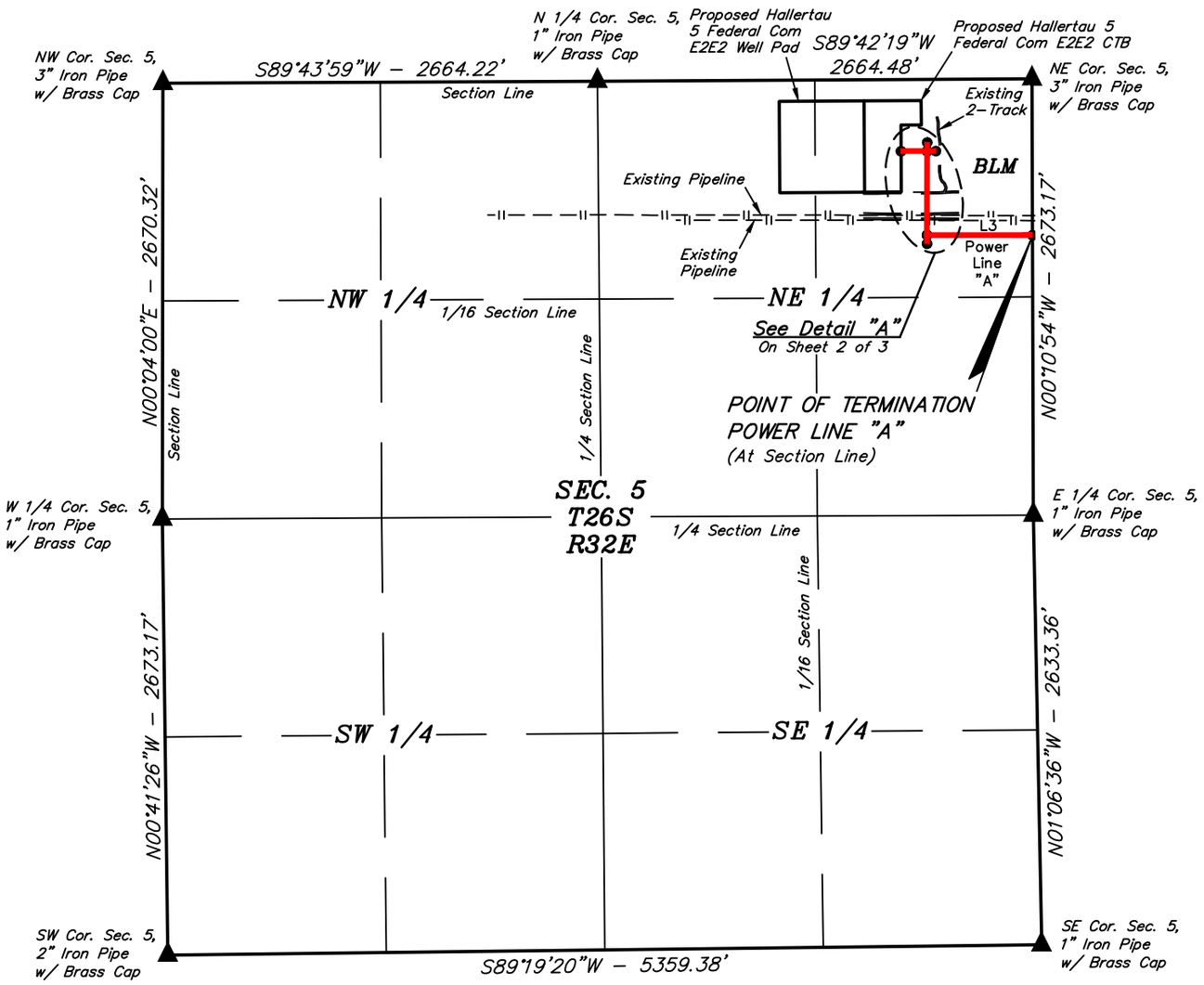
HALLERTAU 5-4 POWER LINE NETWORK
ON BLM LANDS IN
SECTIONS 4 & 5, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	N/A

OVERALL POWER LINE

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Page 143 of 159



ACREAGE / LENGTH TABLE POWER LINE "A"			
LOCATION	FEET	RODS	ACRES
SEC. 5 (NE 1/4)	1322.05	80.12	0.911

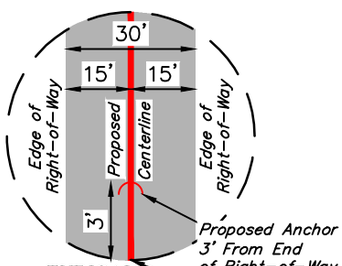
ACREAGE / LENGTH TABLE ANCHOR "1"			
LOCATION	FEET	RODS	ACRES
SEC. 5 (NE 1/4)	53.00	3.21	0.037

ACREAGE / LENGTH TABLE ANCHOR "2"			
LOCATION	FEET	RODS	ACRES
SEC. 5 (NE 1/4)	53.00	3.21	0.037

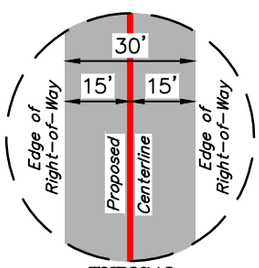
ACREAGE / LENGTH TABLE ANCHOR "3"			
LOCATION	FEET	RODS	ACRES
SEC. 5 (NE 1/4)	53.00	3.21	0.037



▲ = SECTION CORNERS LOCATED.



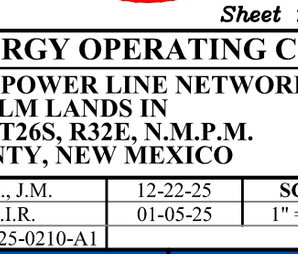
TYPICAL RIGHT-OF-WAY DETAIL FOR L13-L15
NO SCALE



TYPICAL RIGHT-OF-WAY DETAIL FOR L1-L3
NO SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°42'19"E	160.85'
L2	S00°06'35"W	514.52'
L3	S89°53'25"E	646.68'
L13	N00°06'35"E	53.00'
L14	N89°42'19"E	53.00'
L15	S00°06'35"W	53.00'

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.



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

COTERRA ENERGY OPERATING CO.

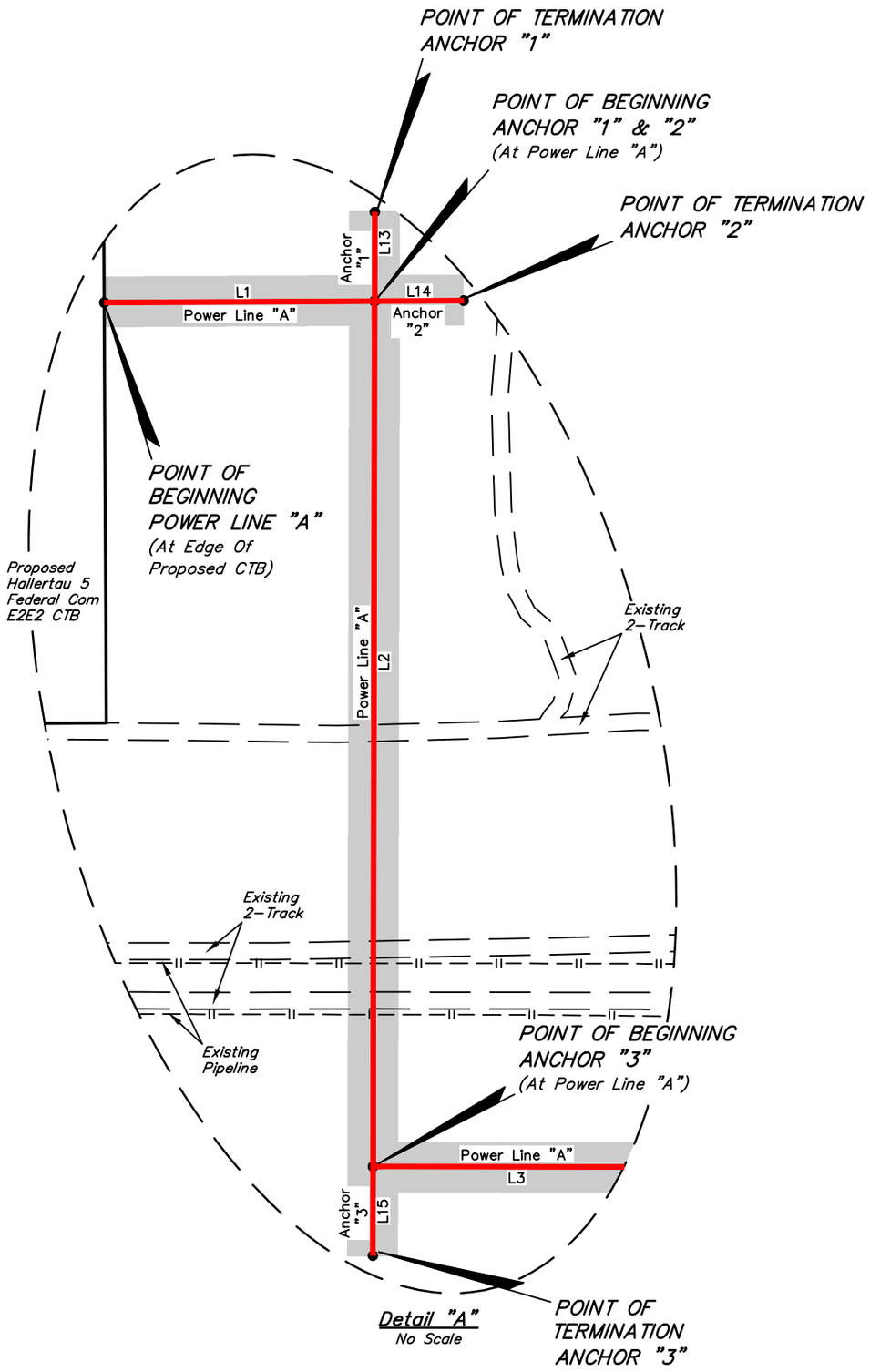
HALLERTAU 5-4 POWER LINE NETWORK ON BLM LANDS IN SECTION 5, T26S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	1" = 1000'
FILE	COT01-25-0210-A1		
POWER LINE R-O-W			EXHIBIT I

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

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Page 144 of 159



CERTIFICATE

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STATE OF NEW MEXICO
23782
PROFESSIONAL SURVEYOR
01-05-26

Sheet 2 of 3

NOTES:

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

COTERRA ENERGY OPERATING CO.

HALLERTAU 5-4 POWER LINE NETWORK
ON BLM LANDS IN
SECTION 5, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	N/A
FILE	COT01-25-0210-A2		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING

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

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Page 145 of 159

POWER LINE "A" RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M., FROM WHICH THE EAST 1/4 CORNER OF SAID SECTION 5 BEARS S00°10'54"E 2673.17', THENCE S61°06'08"W 917.78' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF BEGINNING; THENCE N89°42'19"E 160.85'; THENCE S00°06'35"W 514.52'; THENCE S89°53'25"E 646.68' TO A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S00°10'54"E 958.45' FROM THE NORTHEAST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.911 ACRES MORE OR LESS.

ANCHOR "1" RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M., FROM WHICH THE EAST 1/4 CORNER OF SAID SECTION 5 BEARS S00°10'54"E 2673.17', THENCE S55°26'21"W 780.37' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF BEGINNING; THENCE N00°06'35"E 53.00' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S58°45'52"W 751.49' FROM THE NORTHEAST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.037 ACRES MORE OR LESS.

ANCHOR "2" RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M., FROM WHICH THE EAST 1/4 CORNER OF SAID SECTION 5 BEARS S00°10'54"E 2673.17', THENCE S55°26'21"W 780.37' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF BEGINNING; THENCE N89°42'19"E 53.00' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S53°07'09"W 737.17' FROM THE NORTHEAST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.037 ACRES MORE OR LESS.

ANCHOR "3" RIGHT-OF-WAY DESCRIPTION

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

COMMENCING AT THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M., FROM WHICH THE EAST 1/4 CORNER OF SAID SECTION 5 BEARS S00°10'54"E 2673.17', THENCE S33°55'03"W 1153.48' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF BEGINNING; THENCE S00°06'35"W 53.00' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S32°30'24"W 1197.88' FROM THE NORTHEAST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.037 ACRES MORE OR LESS.

POINT OF BEGINNING POWER LINE "A" BEARS S61°06'08"W 917.78'
FROM THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

POINT OF TERMINATION POWER LINE "A" BEARS S00°10'54"E 958.45'
FROM THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

POINT OF BEGINNING ANCHOR "1" BEARS S55°26'21"W 780.37' FROM
THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

POINT OF TERMINATION ANCHOR "1" BEARS S58°45'52"W 751.49'
FROM THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

POINT OF BEGINNING ANCHOR "2" BEARS S55°26'21"W 780.37' FROM
THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

POINT OF TERMINATION ANCHOR "2" BEARS S53°07'09"W 737.17'
FROM THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

POINT OF BEGINNING ANCHOR "3" BEARS S33°55'03"W 1153.48' FROM
THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

POINT OF TERMINATION ANCHOR "4" BEARS S32°30'24"W 1197.88'
FROM THE NORTHEAST CORNER OF SECTION 5, T26S, R32E, N.M.P.M.

CERTIFICATE

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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
23782
01-05-26

Sheet 3 of 3

NOTES:

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

COTERRA ENERGY OPERATING CO.

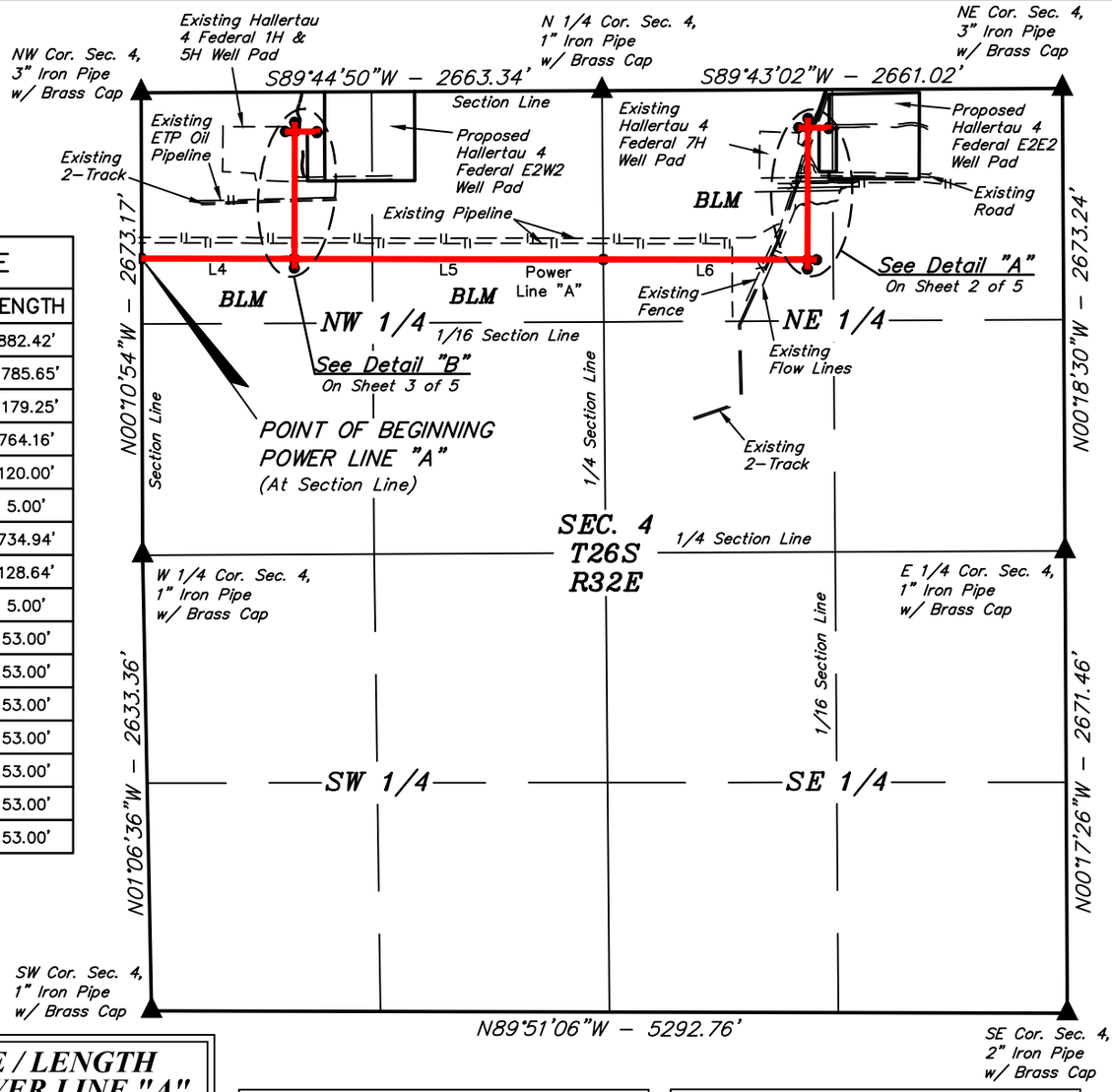
HALLERTAU 5-4 POWER LINE NETWORK
ON BLM LANDS IN
SECTION 5, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	N/A
FILE	COT01-25-0210-A3		
POWER LINE R-O-W			EXHIBIT I

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

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Page 146 of 159



LINE TABLE		
LINE	DIRECTION	LENGTH
L4	S89°53'25"E	882.42'
L5	S89°53'25"E	1785.65'
L6	S89°53'25"E	1179.25'
L7	N00°13'35"E	764.16'
L8	S89°46'25"E	120.00'
L9	S00°13'35"W	5.00'
L10	N00°07'02"E	734.94'
L11	S89°52'58"E	128.64'
L12	S00°15'10"E	5.00'
L16	S00°07'02"W	53.00'
L17	S00°13'35"W	53.00'
L18	S89°53'25"E	53.00'
L19	N89°46'25"W	53.00'
L20	N00°13'35"E	53.00'
L21	N89°52'58"W	53.00'
L22	N00°07'02"E	53.00'

ACREAGE / LENGTH TABLE POWER LINE "A"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NW 1/4)	2668.07	161.70	1.838
SEC. 4 (NE 1/4)	2068.41	125.36	1.425
TOTAL	4736.48	287.06	3.263

ACREAGE / LENGTH TABLE ANCHOR "5"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NE 1/4)	53.00	3.21	0.037

ACREAGE / LENGTH TABLE ANCHOR "8"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NE 1/4)	53.00	3.21	0.037

ACREAGE / LENGTH TABLE POWER LINE "B"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NW 1/4)	868.58	52.64	0.598

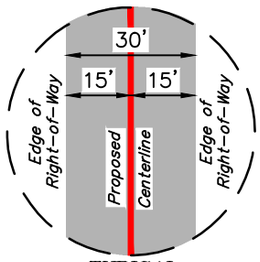
ACREAGE / LENGTH TABLE ANCHOR "6"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NE 1/4)	53.00	3.21	0.037

ACREAGE / LENGTH TABLE ANCHOR "9"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NW 1/4)	53.00	3.21	0.037

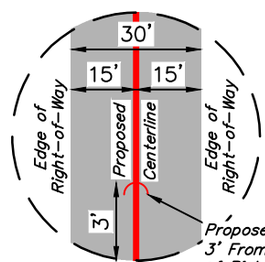
ACREAGE / LENGTH TABLE ANCHOR "4"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NW 1/4)	53.00	3.21	0.037

ACREAGE / LENGTH TABLE ANCHOR "7"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NE 1/4)	53.00	3.21	0.037

ACREAGE / LENGTH TABLE ANCHOR "10"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (NW 1/4)	53.00	3.21	0.037



TYPICAL RIGHT-OF-WAY DETAIL FOR L4-L10
NO SCALE

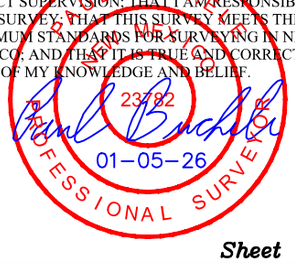


TYPICAL RIGHT-OF-WAY DETAIL FOR L16-L22
NO SCALE



▲ = SECTION CORNERS LOCATED.

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

COTERRA ENERGY OPERATING CO.

HALLERTAU 5-4 POWER LINE NETWORK ON BLM LANDS IN SECTION 4, T26S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

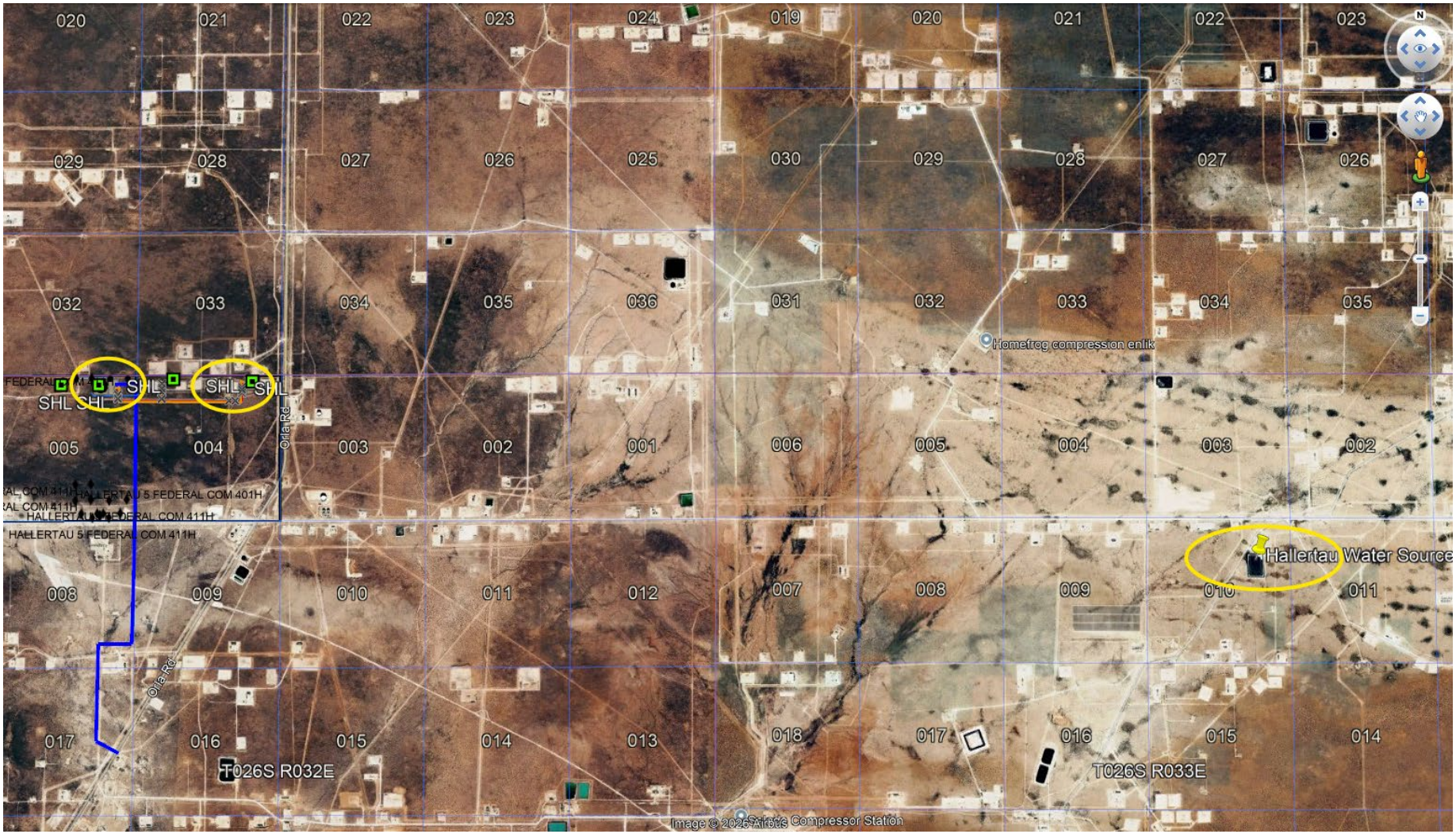
SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	T.I.R.	01-05-25	1" = 1000'
FILE	COT01-25-0210-B1		
POWER LINE R-O-W			EXHIBIT I

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

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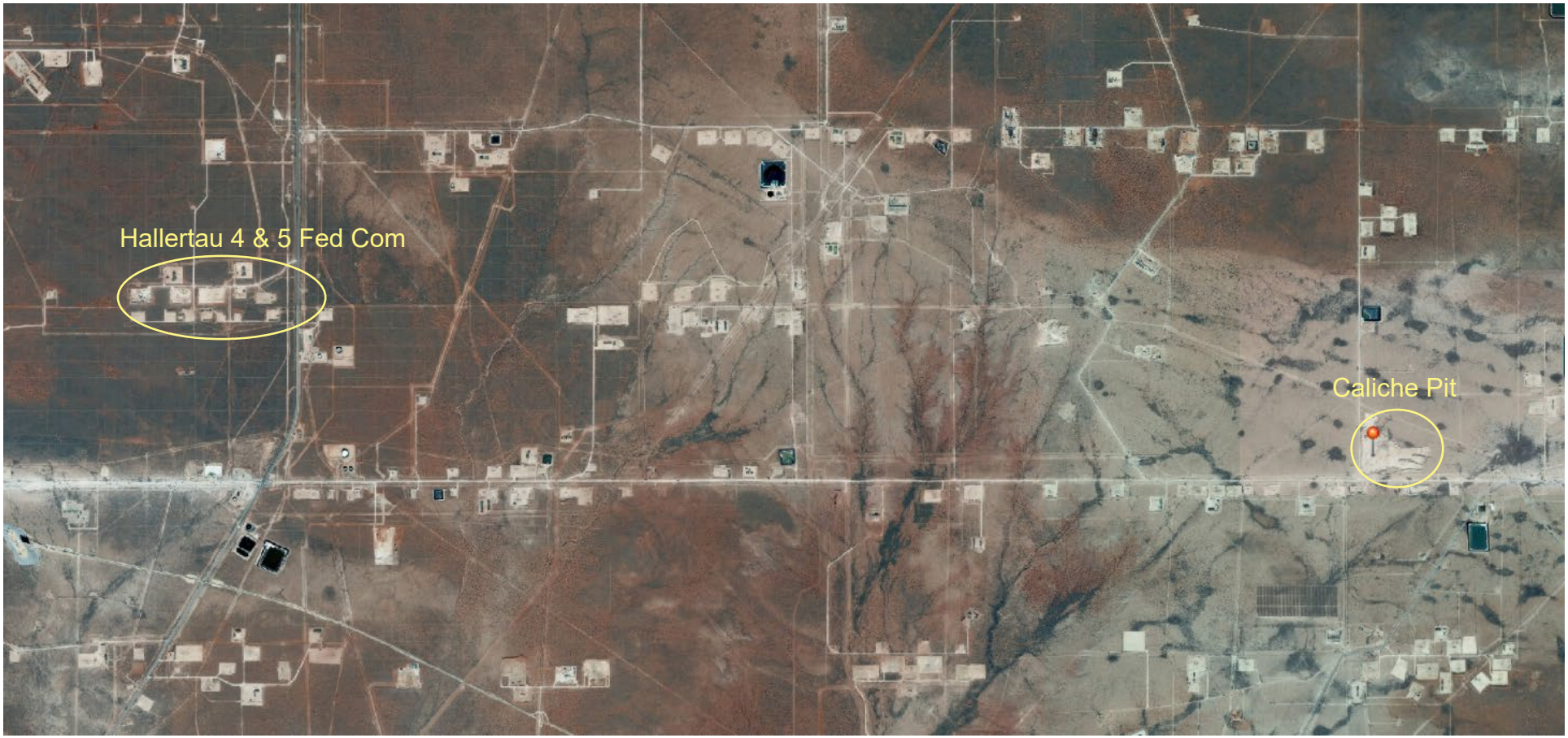
Hallertau 4 & 5 Federal Com Water Supply Map

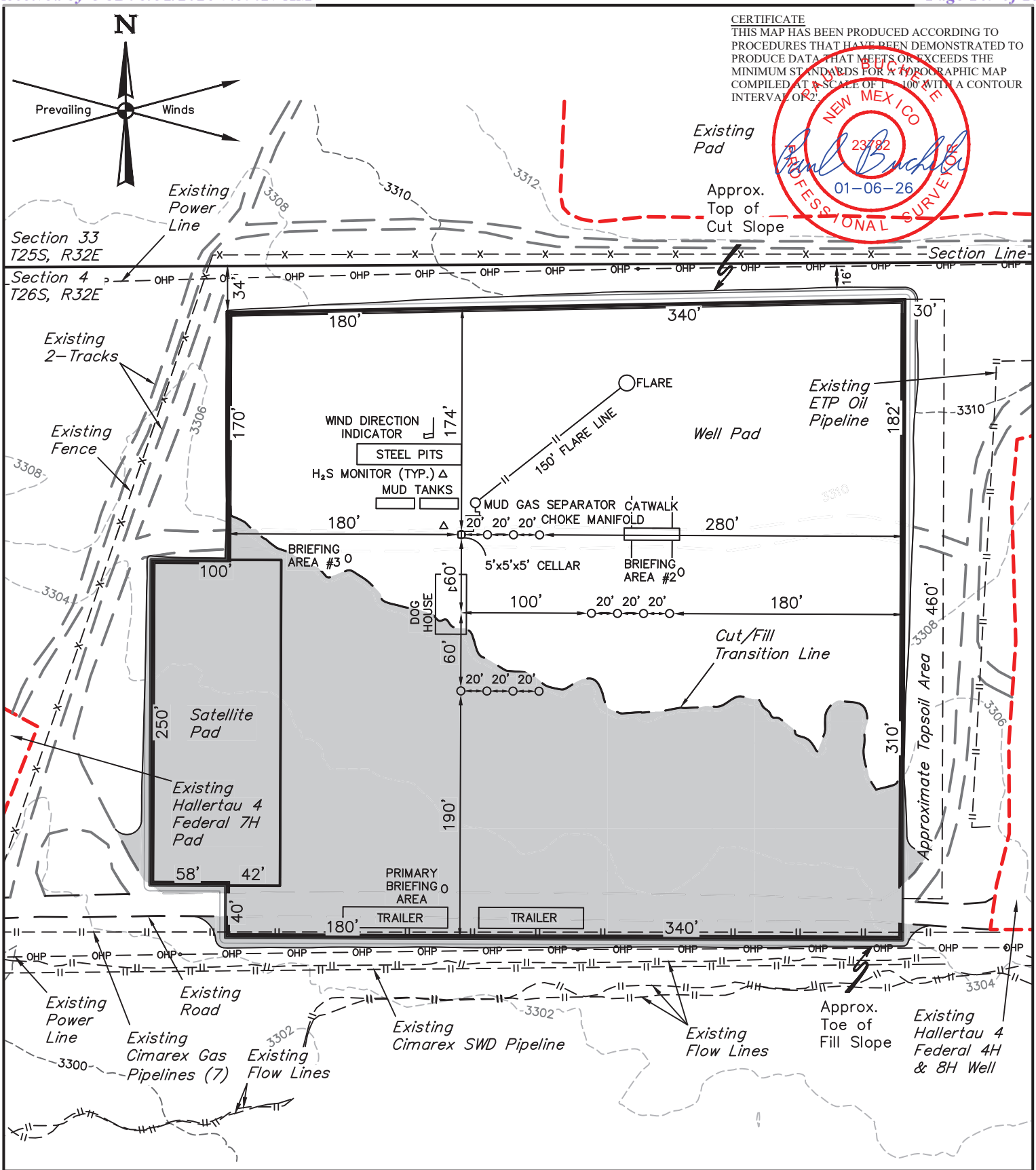
32.061007, -103.555787



Hallertau 4 & 5 Federal Com Caliche Location Map

32.0670824, -103.5660325





NOTES:

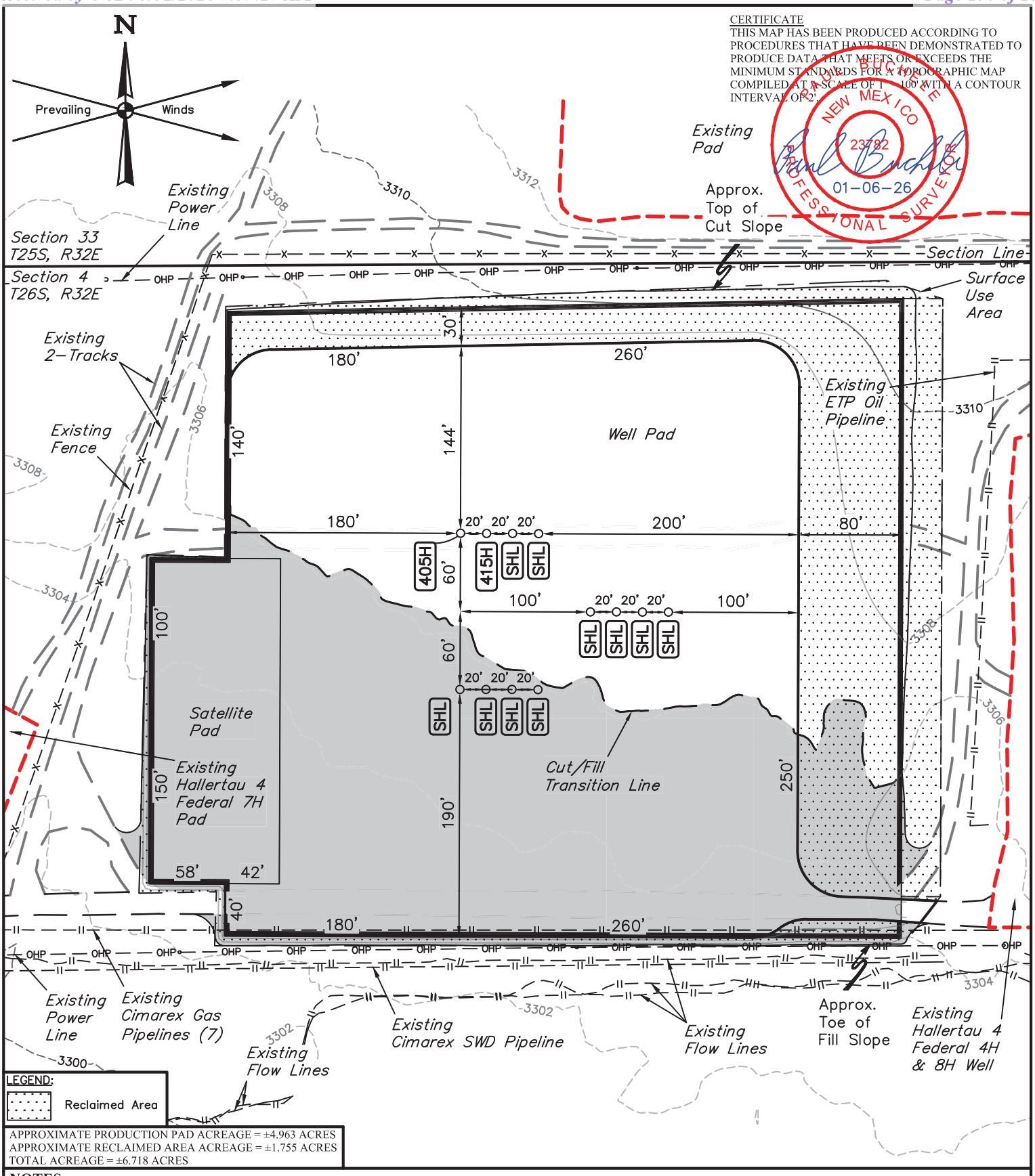
- Contours shown at 2' intervals.

COTERRA ENERGY OPERATING CO.

HALLERTAU 4 FEDERAL E2E2
275' FNL 1,093' FEL (APPROX. CENTER OF PAD)
NE 1/4 NE 1/4, SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	N.R.	01-06-26	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



APPROXIMATE PRODUCTION PAD ACREAGE = ±4.963 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±1.755 ACRES
TOTAL ACREAGE = ±6.718 ACRES

NOTES:

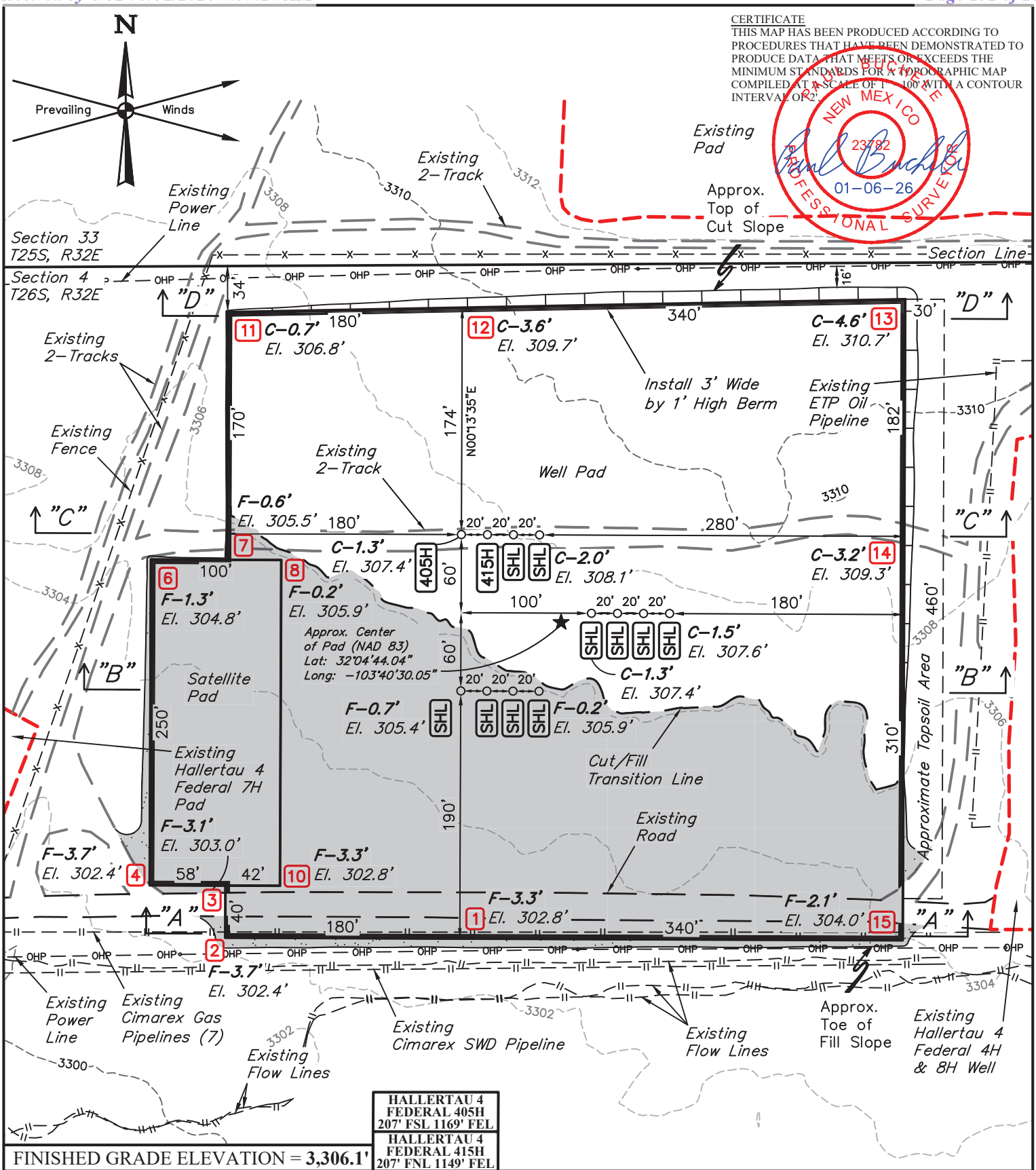
- Contours shown at 2' intervals.

COTERRA ENERGY OPERATING CO.

HALLERTAU 4 FEDERAL E2E2
275' FNL 1,093' FEL (APPROX. CENTER OF PAD)
NE 1/4 NE 1/4, SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	N.R.	01-06-26	1" = 100'
RECLAMATION DIAGRAM			**EXHIBIT P**

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



HALLERTAU 4 FEDERAL 405H
207' FSL 1169' FEL
HALLERTAU 4 FEDERAL 415H
207' FNL 1149' FEL

FINISHED GRADE ELEVATION = **3,306.1'**

NOTES:

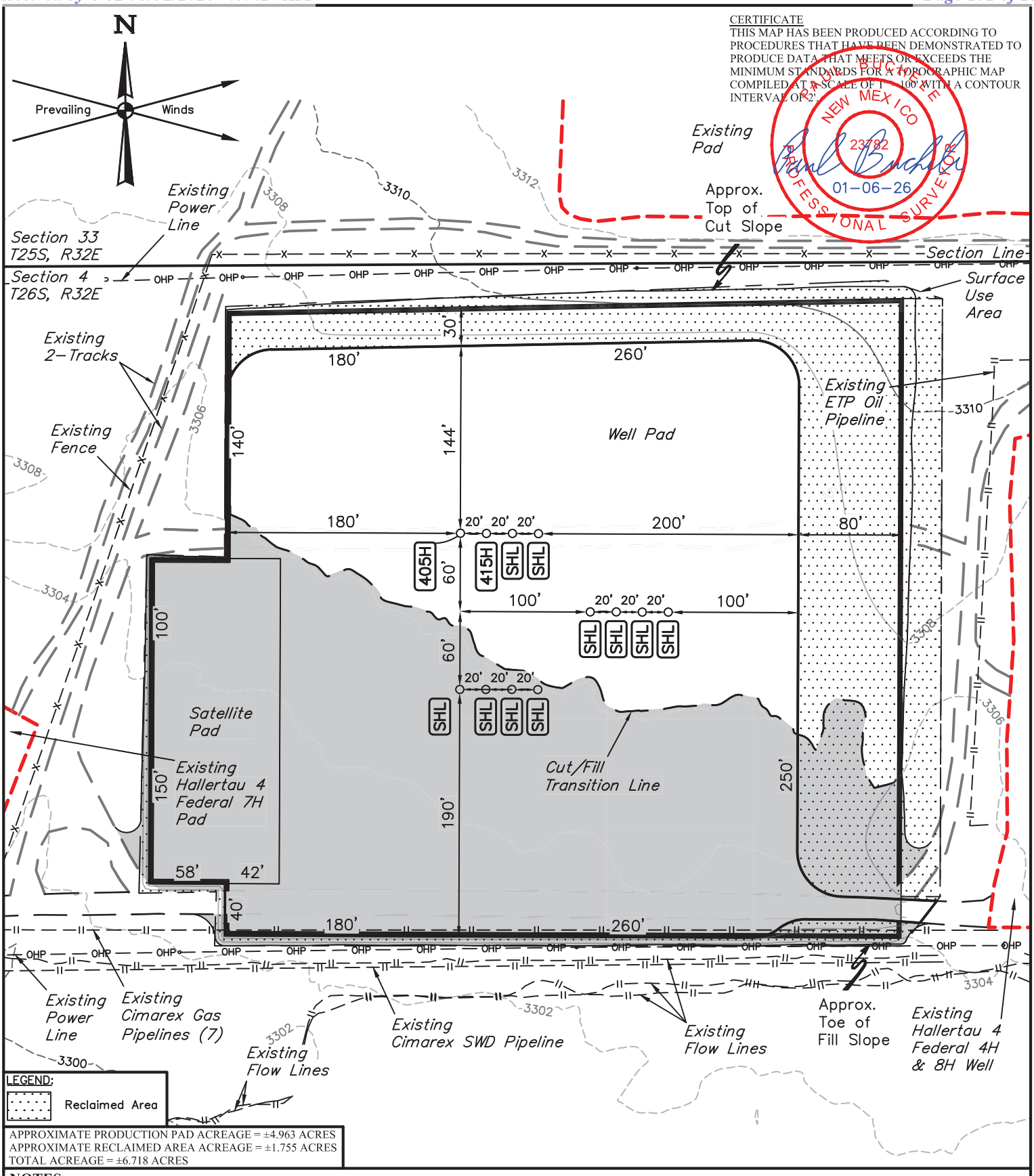
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD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

COTERRA ENERGY OPERATING CO.

HALLERTAU 4 FEDERAL E2E2
275' FNL 1,093' FEL (APPROX. CENTER OF PAD)
NE 1/4 NE 1/4, SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	N.R.	01-06-26	1" = 100'
LOCATION LAYOUT			EXHIBIT J

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



LEGEND:
Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±4.963 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±1.755 ACRES
TOTAL ACREAGE = ±6.718 ACRES

NOTES:

- Contours shown at 2' intervals.

COTERRA ENERGY OPERATING CO.

HALLERTAU 4 FEDERAL E2E2
275' FNL 1,093' FEL (APPROX. CENTER OF PAD)
NE 1/4 NE 1/4, SECTION 4, T26S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.S., J.M.	12-22-25	SCALE
DRAWN BY	N.R.	01-06-26	1" = 100'
RECLAMATION DIAGRAM			EXHIBIT P

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

AFMSS

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

PWD Data Report

03/30/2026

APD ID: 10400110106 **Submission Date:** 02/13/2026

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

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: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

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: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

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: HALLERTAU 4 FEDERAL COM **Well Number:** 415H

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

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Bond Info Data

03/30/2026

APD ID: 10400110106
Submission Date: 02/13/2026

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: HALLERTAU 4 FEDERAL COM
Well Number: 415H

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:

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. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 569169
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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CONDITIONS

Action 569169

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CONDITIONS

Created By	Condition	Condition Date
cdenson	Cement is required to circulate on both surface and intermediate1 strings of casing.	3/31/2026
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.	4/14/2026
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.	4/14/2026
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.	4/14/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/14/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	4/14/2026
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.	4/14/2026
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.	4/14/2026