



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
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- Application Attachments
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- Drilling Plan Report
- Drilling Plan Attachments
  - Blowout Prevention Choke Diagram Attachment: 4 file(s)
  - Blowout Prevention BOP Diagram Attachment: 1 file(s)
  - Casing Taperd String Specs: 2 file(s)
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- SUPO Report
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- PWD Report
- PWD Attachments
  - None

- Bond Report
- Bond Attachments
  - None

Form 3160-3  
(October 2024)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address	3b. Phone No. (include area code)	9. API Well No. <b>30-025-55921</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
		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)

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>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).</li> </ul> | <ul style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification.</li> <li>6. Such other site specific information and/or plans as may be requested by the BLM.</li> </ul> |
|---|---|

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.



(Continued on page 2)

\*(Instructions on page 2)

## INSTRUCTIONS

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

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

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

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

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

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

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

## NOTICES

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

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

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

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

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

The Paperwork Reduction Act of 1995 requires us to inform you that:

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

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

## Additional Operator Remarks

### Location of Well

0. SHL: SESW / 1267 FSL / 2285 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.257425 / LONG: -103.629478 ( TVD: 0 feet, MD: 0 feet )  
PPP: SWSW / 100 FSL / 740 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.254199 / LONG: -103.634472 ( TVD: 10755 feet, MD: 10999 feet )  
PPP: NWNW / 2643 FNL / 740 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.275706 / LONG: -103.634487 ( TVD: 11350 feet, MD: 19156 feet )  
PPP: NWNW / 0 FNL / 740 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.26844 / LONG: -103.634482 ( TVD: 11350 feet, MD: 16512 feet )  
BHL: NWNW / 100 FNL / 740 FWL / TWSP: 23S / RANGE: 32E / SECTION: 25 / LAT: 32.282695 / LONG: -103.364491 ( TVD: 11350 feet, MD: 21698 feet )

### BLM Point of Contact

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

CONFIDENTIAL

## Triste Draw 36-25 FEDERAL COM 301H

### **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](mailto: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. Unrecorded measurements up to were recorded from an unreported formation, most likely the Delaware Group.

Questions? Contact Thomas Evans, BLM Geologist at 575-234-5965 or [tvevans@blm.gov](mailto:tvevans@blm.gov)

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Cimarex Energy Company
<b>LOCATION:</b>	Section 36, T.23 S., R.32 E., NMPM
<b>COUNTY:</b>	Lea County, New Mexico

<b>WELL NAME &amp; NO.:</b>	Triste Draw 36-25 Federal Com 301H
<b>ATS/API ID:</b>	ATS-24-426
<b>APD ID:</b>	10400095866
<b>Sundry ID:</b>	N/a

<b>WELL NAME &amp; NO.:</b>	Triste Draw 36-25 Federal Com 302H
<b>ATS/API ID:</b>	ATS-24-425
<b>APD ID:</b>	10400095870
<b>Sundry ID:</b>	N/a

COA

H2S	Yes		
Potash		None	
Cave/Karst Potential	Low		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	Conventional and Multibowl		
Other	<input type="checkbox"/> 4 String <input type="checkbox"/> 5 String	Capitan Reef None	<input type="checkbox"/> WIPP
Other	Pilot Hole None	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry	Waste Prevention Waste MP	
Special Requirements Variance	<input type="checkbox"/> BOPE Break Testing <input type="checkbox"/> Offline BOPE Testing	<input type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> Casing Clearance

## A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) 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 **1550 feet** (a minimum of **25 feet (Lea County)** 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.

**Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

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

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
  - ❖ In Ochoa Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least **500 feet** into the previous casing string. Operator shall provide method of verification.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

### C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

#### Option 1:

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

#### Option 2:

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

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

## D. SPECIAL REQUIREMENT (S)

### Communitization Agreement

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

### Casing Clearance

Operator casing variance is approved for the utilization of 5-1/2 inch P-110 **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 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

### A. CASING

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

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

#### C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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

Long Vo (LVO) 4/25/2025



# Operator Certification Data Report

11/12/2025

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

## Operator

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

**NAME:** SHELLY BOWEN

**Signed on:** 11/20/2023

**Title:** Regulatory Analyst

**Street Address:** 6001 DEAUVILLE BLVD STE 300N

**City:** MIDLAND

**State:** TX

**Zip:** 79706

**Phone:** (432)620-1644

**Email address:** DL\_PBUREGULATORY@COTERRA.COM

## Field

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**



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

# Application Data

11/12/2025

APD ID: 10400095866

Submission Date: 11/20/2023

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

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COM

Well Number: 301H

Well Type: OIL WELL

Well Work Type: Drill

## Section 1 - General

APD ID: 10400095866

Tie to previous NOS?

Submission Date: 11/20/2023

BLM Office: Carlsbad

User: SHELLY BOWEN

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMLC063228

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO

APD Operator: CIMAREX ENERGY COMPANY

Operator letter of

## Operator Info

Operator Organization Name: CIMAREX ENERGY COMPANY

Operator Address: 6001 DEAUVILLE BLVD STE 300N

Zip: 79706

Operator PO Box:

Operator City: MIDLAND

State: TX

Operator Phone: (303)295-3995

Operator Internet Address: hknaults@cimarex.com

## 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: TRISTE DRAW 36-25 FEDERAL COM

Well Number: 301H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: TRISTE DRAW

Pool Name: BONE SPRING

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**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:** Triste Draw    **Number:** 36-25 Federal Com

**Well Class:** HORIZONTAL

**Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** OIL WELL

**Describe Well Type:**

**Well sub-Type:** INFILL

**Describe sub-type:**

**Distance to town:** 27 Miles

**Distance to nearest well:** 20 FT

**Distance to lease line:** 0 FT

**Reservoir well spacing assigned acres Measurement:** 640 Acres

**Well plat:** Triste\_Draw\_36\_25\_301H\_C102\_revised\_06182024\_20240716114620.pdf

**Well work start Date:** 10/01/2024

**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	1267	FSL	2285	FWL	23S	32E	36	Aliquot SESW	32.257425	-103.629478	LEA	NEW MEXICO	NEW MEXICO	S	STATE	3658			N
KOP Leg #1	100	FSL	740	FWL	23S	32E	36	Aliquot SWSW	32.254199	-103.634472	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-7097	10999	10755	N
PPP Leg #1-1	100	FSL	740	FWL	23S	32E	36	Aliquot SWSW	32.254199	-103.634472	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-7097	10999	10755	N

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-2	0	FNL	740	FW L	23S	32E	36	Aliquot NWN W	32.26844	- 103.6344 82	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0 63228	- 769 2	165 12	113 50	N
PPP Leg #1-3	264	FNL	740	FW L	23S	32E	36	Aliquot NWN W	32.27570 6	- 103.6344 87	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 769 2	191 56	113 50	N
EXIT Leg #1	100	FNL	740	FW L	23S	32E	25	Aliquot NWN W	32.28269 5	- 103.3644 91	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 86154	- 769 2	216 98	113 50	Y
BHL Leg #1	100	FNL	740	FW L	23S	32E	25	Aliquot NWN W	32.28269 5	- 103.3644 91	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 86154	- 769 2	216 98	113 50	Y

State of New Mexico  
 Energy, Minerals & Natural Resources Department  
 OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

Form C-102  
 Revised August 1, 2011  
 Submit one copy to appropriate  
 District Office

AMENDED REPORT

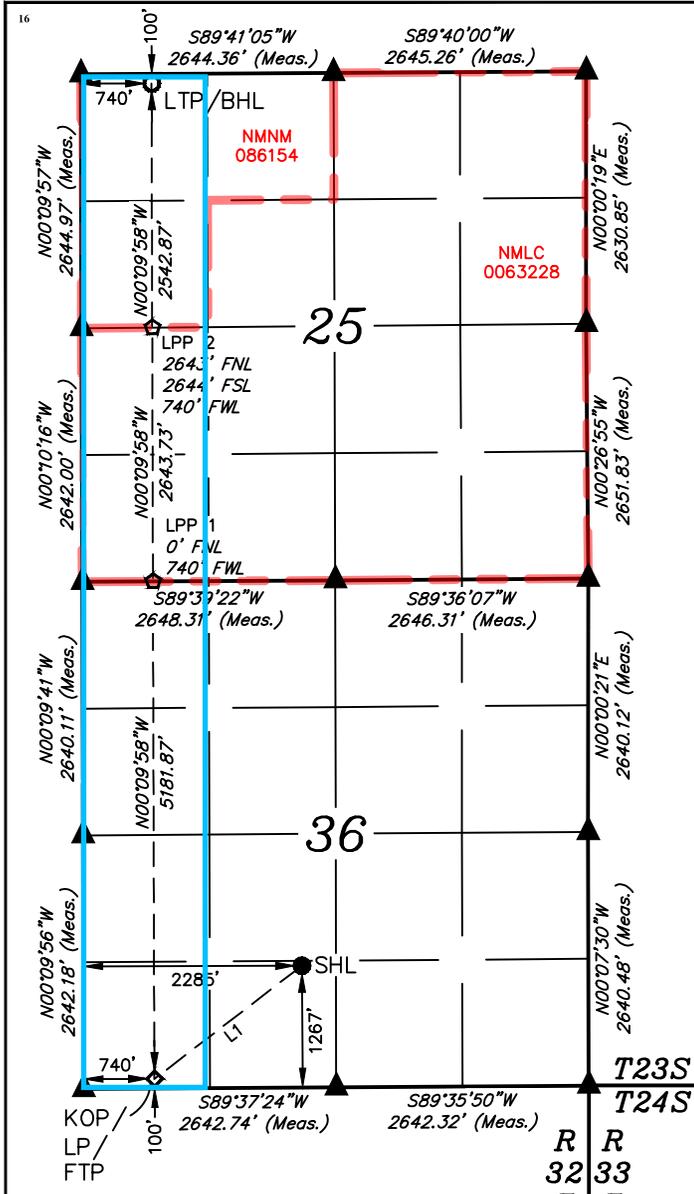
WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name
	96603	Triste Draw; Bone Spring
<sup>4</sup> Property Code	<sup>5</sup> Property Name	
	TRISTE DRAW 36-25 FEDERAL COM	
<sup>7</sup> OGRID No.	<sup>8</sup> Operator Name	<sup>9</sup> Elevation
215099	CIMAREX ENERGY CO.	3658.5'

<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	23S	32E		1267	SOUTH	2285	WEST	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	23S	32E		100	NORTH	740	WEST	LEA
<sup>12</sup> Dedicated Acres		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			
320									

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



<sup>16</sup> NAD 83 (SURFACE HOLE LOCATION)	
LATITUDE = 32°15'26.73" (32.257425°)	
LONGITUDE = -103°37'46.12" (-103.629478°)	
NAD 27 (SURFACE HOLE LOCATION)	
LATITUDE = 32°15'26.29" (32.257301°)	
LONGITUDE = -103°37'44.39" (-103.628996°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 458097.76' E: 758914.88'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 458038.61' E: 717731.15'	
NAD 83 (KOP/LP/FTP)	
LATITUDE = 32°15'15.12" (32.254199°)	
LONGITUDE = -103°38'04.10" (-103.634472°)	
NAD 27 (KOP/LP/FTP)	
LATITUDE = 32°15'14.67" (32.254076°)	
LONGITUDE = -103°38'02.37" (-103.633991°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 456914.18' E: 757378.67'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 456855.06' E: 716194.92'	
NAD 83 (LPP 1)	
LATITUDE = 32°16'06.39" (32.268440°)	
LONGITUDE = -103°38'04.13" (-103.634482°)	
NAD 27 (LPP 1)	
LATITUDE = 32°16'05.94" (32.268317°)	
LONGITUDE = -103°38'02.40" (-103.634000°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 462095.00' E: 757341.94'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 462035.74' E: 716158.32'	
NAD 83 (LPP 2)	
LATITUDE = 32°16'32.54" (32.275706°)	
LONGITUDE = -103°38'04.15" (-103.634487°)	
NAD 27 (LPP 2)	
LATITUDE = 32°16'32.10" (32.275583°)	
LONGITUDE = -103°38'02.42" (-103.634005°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 464738.20' E: 757323.20'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 464678.86' E: 716139.65'	
NAD 83 (LTP/BHL)	
LATITUDE = 32°16'57.70" (32.282695°)	
LONGITUDE = -103°38'04.17" (-103.634491°)	
NAD 27 (LTP/BHL)	
LATITUDE = 32°16'57.26" (32.282571°)	
LONGITUDE = -103°38'02.43" (-103.634009°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 467280.56' E: 757305.17'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 467221.15' E: 716121.68'	

**<sup>17</sup> OPERATOR CERTIFICATION**  
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  
*Shelly Bowen* 09/18/24  
 Signature Date  
 Shelly Bowen  
 Printed Name  
 shelly.bowen@coterra.com  
 E-mail Address

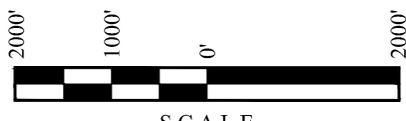
**<sup>18</sup> SURVEYOR CERTIFICATION**  
 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  
 September 15, 2023  
 Date of Survey  
 Signature and Seal of Professional Surveyor:



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S52°37'39"W	1939.62'

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)

- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
- = LAST TAKE POINT/BOTTOM HOLE LOCATION
- ☆ = LEASE PENETRATION POINT
- ▲ = SECTION CORNER LOCATED
- = LEASE LINE



SCALE  
 DRAWN BY: D.J.S. 09-28-23

Certificate Number:



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

# Drilling Plan Data Report

11/12/2025

APD ID: 10400095866

Submission Date: 11/20/2023

Highlighted data reflects the most recent changes

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COM

Well Number: 301H

Well Type: OIL WELL

Well Work Type: Drill

Show Final Text

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15523375	RUSTLER	0	1238	1238	ANHDRITE	USEABLE WATER	N
15523376	TOP SALT	-1731	1731	1731	HALITE	NONE	N
15523377	BASE OF SALT	-5036	5036	5120	LIMESTONE	NONE	N
15523386	LAMAR	-5036	5036	5036	SANDSTONE	NONE	N
15523378	BELL CANYON	-5087	5087	5172	SANDSTONE	NATURAL GAS, OIL	Y
15523379	CHERRY CANYON	-5940	5940	6053	SANDSTONE	NATURAL GAS	Y
15523380	BRUSHY CANYON	-7318	7318	7477	SANDSTONE	NATURAL GAS, OIL	Y
15523381	BONE SPRING LIME	-8850	8850	9059	LIMESTONE	NONE	N
15523382	AVALON SAND	-9033	9033	9248	SHALE	NATURAL GAS, OIL	Y
15523383	BONE SPRING 1ST	-10050	10050	10293	SANDSTONE	NATURAL GAS, OIL	Y
15523384	BONE SPRING 2ND	-10592	10592	10835	SANDSTONE	NATURAL GAS, OIL	Y
15523385	BONE SPRING 3RD	-11115	11115	11388	OTHER : Carbonate	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 11350

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

**Requesting Variance?** YES

**Variance request:** See attached.

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**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\_MANIFOLD\_DIAGRAM\_10M\_20240614064003.pdf

COTERRA\_10M\_MBU\_3T\_CFL\_10.34\_X\_7.58\_X\_5.5\_20240614064005.pdf

CIMAREX\_10K\_PROD\_TREE\_20240614064005.pdf

CHOKE\_HOSE\_M15486\_20250415083443.pdf

**BOP Diagram Attachment:**

BOP\_DIAGRAM\_10M\_20240614064020.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	1288	0	1288	3658	2370	1288	J-55	40.5	BUTT	2.83	5.61	DRY	12.06	DRY	12.06
2	PRODUCTION	6.75	5.5	NEW	API	N	0	10949	0	10949	3658	-7291	10949	L-80	23	LT&C	2	1.77	DRY	2.39	DRY	2.39
3	INTERMEDIATE	9.875	7.625	NEW	API	N	0	11749	0	11308	3658	-7650	11749	L-80	29.7	LT&C	2.71	1.3	DRY	1.69	DRY	1.69
4	PRODUCTION	6.75	5.0	NEW	API	Y	10949	21699	10949	11350	-7291	-7692	10750	P-110	18	BUTT	2.33	2.35	DRY	80.35	DRY	80.35

**Casing Attachments**

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**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):**

Spec\_Sheet\_for\_Tapered\_Prod\_5.5\_23\_\_P110RY\_20240614064941.pdf

---

**Casing ID:** 3                    **String**            INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Triste\_Casing\_Assumptions\_20240614064343.pdf

---

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**Casing Attachments**

**Casing ID:** 4      **String**      PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

5.0\_in\_18.00\_Tapered\_Prod\_Spec\_Sheet\_20240614064847.pdf

Spec\_Sheet\_for\_Tapered\_Prod\_5\_18\_\_P110RY\_20240614064847.pdf

**Casing Design Assumptions and Worksheet(s):**

**Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0
PRODUCTION	Tail		1154 9	2169 9	1386	1.3	14.8	1801	25	Class C	Retarder
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0

SURFACE	Lead		0	988	500	1.72	13.5	860	45	Class C	Bentonite
SURFACE	Tail		988	1288	134	1.34	14.8	179	45	Class C	LCM
INTERMEDIATE	Lead		0	1074 9	921	3.64	10.3	3352	51	36:65 (Poz c)	Salt, Bentonite
INTERMEDIATE	Tail		1074 9	1174 9	198	1.36	14.8	269.2 8	51	Class C	Bentonite

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

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

**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	1288	OTHER : Fresh water	7.83	8.33							
1288	1174 9	OTHER : Brine water	9.5	10							
1174 9	2169 9	OTHER : Cut brine or OBM	8.5	9							

### Section 6 - Test, Logging, Coring

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

Logs will be run on the 351H

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

DIRECTIONAL SURVEY,

**Coring operation description for the well:**

N/A

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 5783

**Anticipated Surface Pressure:** 3285

**Anticipated Bottom Hole Temperature(F):** 182

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations**

H2S\_PLAN\_REV.0\_20240614065800.pdf

### Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

301H\_Well\_Plan\_20231115152232.pdf

301H\_AC\_Summary\_20231115152232.pdf

301H\_Directional\_20231120131822.pdf

GEOPROG\_Triste\_Draw\_36\_25\_Fed\_Com\_301H\_Harkey\_A\_JAB\_20231120131822.pdf

WELL\_CONTROL\_PLAN\_REV.0\_20240614065842.pdf

301H\_Directional\_100\_20240614065855.pdf

301H\_Drilling\_Plan\_updated\_06132024\_20240614065855.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Triste\_Draw\_36\_25\_Federal\_Com\_Location\_Layout\_Plat\_20231115135509.pdf

Triste\_Draw\_36\_25\_Federal\_Com\_Well\_Site\_Layout\_20231115135509.pdf

Triste\_Draw\_36\_25\_Federal\_Com\_301H\_Natural\_Gas\_Plan\_Cimarex\_20231115152245.pdf

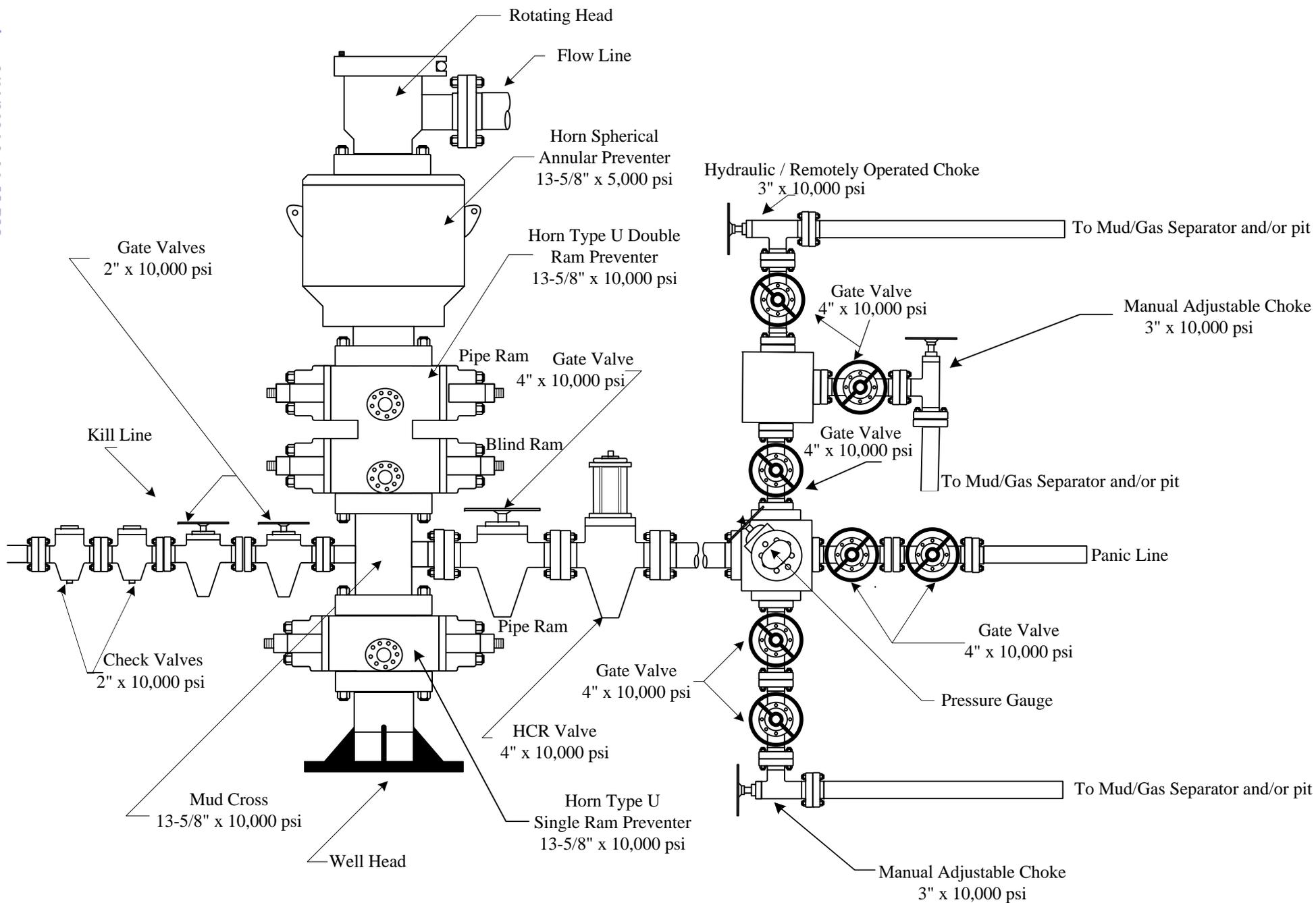
**Other Variance request(s)?:** Y

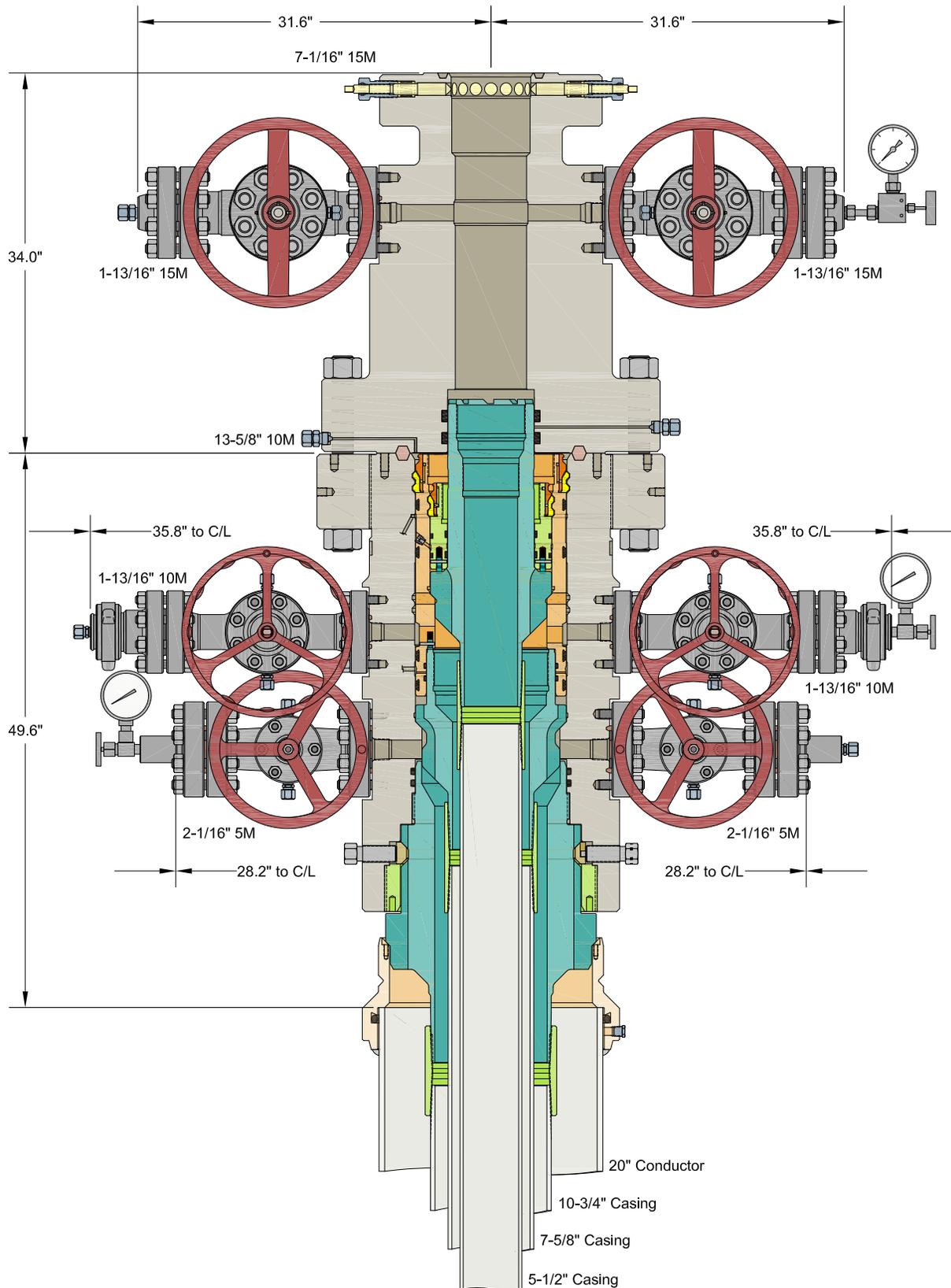
**Other Variance attachment:**

NEW\_MEXICO\_STANDARD\_VARIANCES\_REV.1\_20240614065919.pdf

CHOKE\_HOSE\_M15486\_20250415084138.pdf

CONFIDENTIAL





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ALL DIMENSIONS APPROXIMATE

# CACTUS WELLHEAD LLC

COTERRA ENERGY INC  
HOBBS, NM

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

DRAWN	VJK	07JUL23
APPRV		
DRAWING NO.	HBE0000965	



**Cactus**

**Quotation**

**Quote Number : HBE0000965**

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

Date: 07/07/2023  
Valid For 30 Days

**Page 1 of 8**

**Bill To:** 7035

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

**Ship To:** 0

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

	Quantity	Price	Ext Price
--	----------	-------	-----------

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**

**Quote Number : HBE0000965**

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

Date: 07/07/2023  
 Valid For 30 Days

**Page 2 of 8**

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



**Quotation**

**Quote Number : HBE0000965**

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

Date: 07/07/2023  
 Valid For 30 Days

		Quantity	Price	Ext Price
16	780080-20E1 STUD,ALL-THD W/2 HVY HEX NUTS,BLK,3/4-10UNC X 5-1/2,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING	16.00	9.13	146.08
17	NVA NEEDLE VALVE,MFA,1/2 10M	2.00	55.58	111.16
18	PG5M PRESSURE GAUGE,5M,4-1/2 FACE,LIQUID FILLED,1/2 NPT	1.00	58.24	58.24
19	PG10M PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT	1.00	58.24	58.24
20	132804 RISER ADPT,CW,LRA,20.12 DBLO X 20 SOW TOP X 19.5 ID,8.5 LG,W/8 1-8 UNC-2B TAP HOLES,5.00 DEEP PKT W/1/2 ORINGS & 1/2 NPT TEST PORT,300 PSI MAX WP,A/F 20.12 LANDING RING	0.00	8,024.00	0.00

NOTE: THE AFOREMENTIONED ITEM IS A ONE TIME CHARGE PER RIG; PRICE NOT INCLUDED IN THE TOTAL.

**29,839.64**

**CASING HANGERS & PACKOFFS**

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

NOTE:MAX CASING CONNECTION TORQUE PER THREADERS SPEC

25	115867 PACKOFF,CW,CTF-MBU-3T,11,A/F 7.75 SEAL PREP,W/8.750-4 STUB ACME-2G LH BOX TOP,A/F LANDING ON 45 DEG SHOULDER ON HANGER,4130 80K,NACE SVC,PSL2	1.00	1,950.00	1,950.00
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**12,581.24**

**RENTAL TOOLS**

26	AR4 3T-CFL DT 10-3/4 X 7-5/8 X 5-1/2 MAN MBU-3T-R RENTAL TOOLS = \$2,250.00 PER WELL FOR THE FIRST 45 DAYS; \$195.00 PER DAY THEREAFTER	0.00	2,250.00	0.00
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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
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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



**Cactus**

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			Quantity	Price	Ext Price
CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. ACCESSORIES FOR ASSEMBLY ARE NOT INCLUDED IN RENTAL RATE.					
					<b>0.00</b>
<b>7-5/8" OFFLINE CEMENT</b>					
28	50	3T OLC - 7-5/8 RT DAILY RENTAL	0.00	950.00	0.00
MBU-3T - 7-5/8" OFFLINE CEMENTING RENTAL PACKAGE = \$950.00 PER WELL					
RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:					
PN 133817: CEMENT TOOL,CW,CSGHGR/PACKOFF,MBU-3T-LWR-OLC,NESTED,7-5/8 BC PIN TOP,W/11.250-4 STUB ACME-2G LH PIN THD HOLD DOWN RING,6.964 MIN BORE,5000 PSI MAX WP,4140 125K					
PN 124993: CIRCULATION PLUG,CW,CTF/MBU-3T,11 NOM,W/ONE WAY 3 HBPV,6A-U-AA-1-1					
PN 107010: RUN TOOL,CW,PACKOFF,MBU-LR-LWR,11 X 3-1/2 IF (NC38) BTM & TOP,W/7.500-4 STUB ACME-2G LH PIN BTM					
NOTE: CUSTOMER RESPONSIBLE FOR LOST OR DAMAGE BEYOND REPAIR TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.					
					<b>0.00</b>
<b>SAFEDRILL® TA CAP</b>					
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.					
					<b>0.00</b>
<b>TUBING HEAD ASSEMBLY</b>					
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					



**Cactus**

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**Page 6 of 8**

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

**CONTINGENCY EQUIPMENT**

EMERGENCY EQUIPMENT; INVOICED AS REQUIRED:

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

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

<b>Matl:</b>	61,788.05
<b>Labor:</b>	0.00
<b>Misc:</b>	0.00
<b>Sales Tax:</b>	0.00
<b>Total:</b>	<b>61,788.05</b>


**Cactus**

## Quotation

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

**Date: 07/07/2023**
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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**
**Quote Number : HBE0000965**

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

Date: 07/07/2023

Valid For 30 Days

**Page 8 of 8**

material in respect of which such claim is made.

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

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

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

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

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

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

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

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

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

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

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

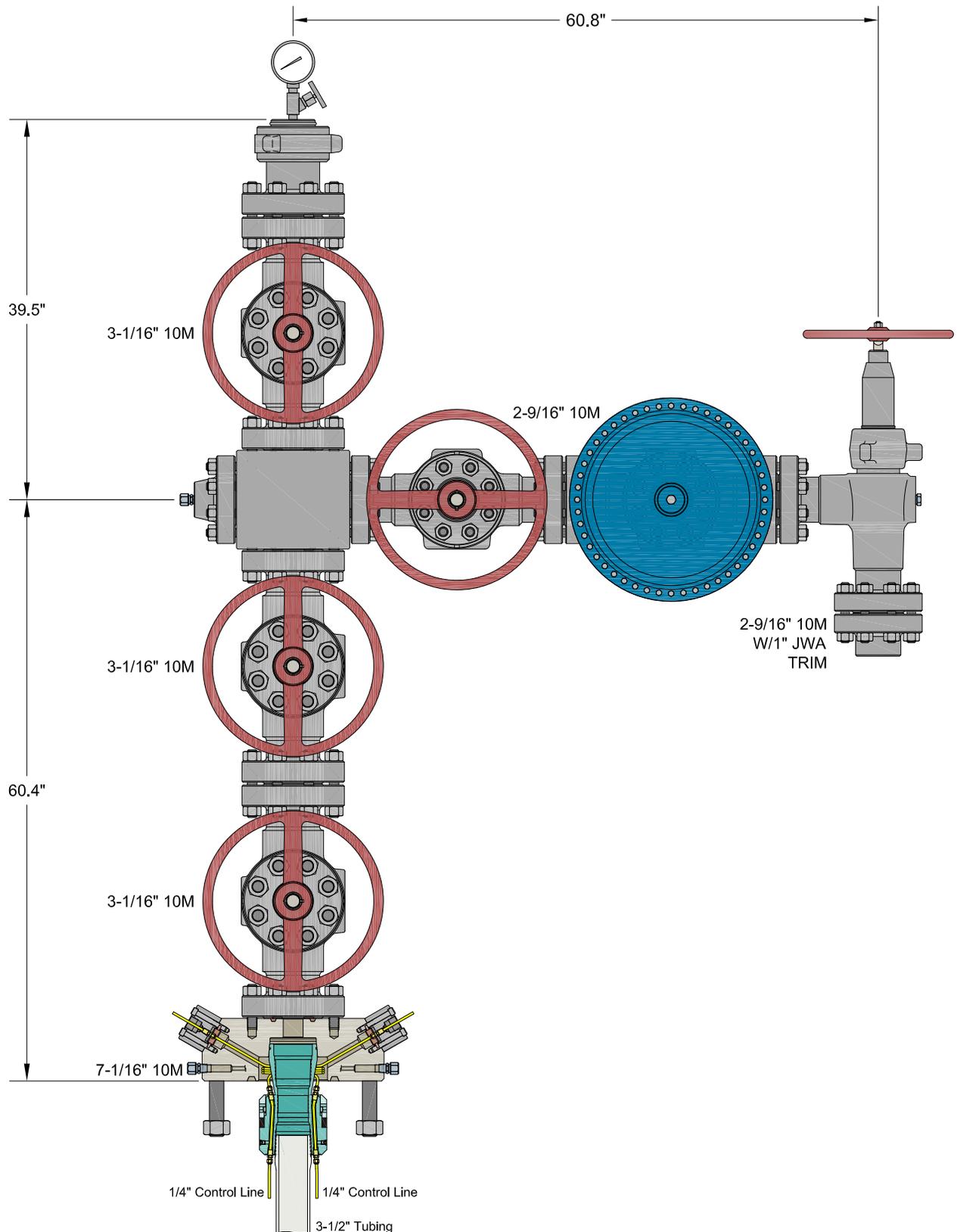
20. **CHOICE OF LAW.** THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF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

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

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

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

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



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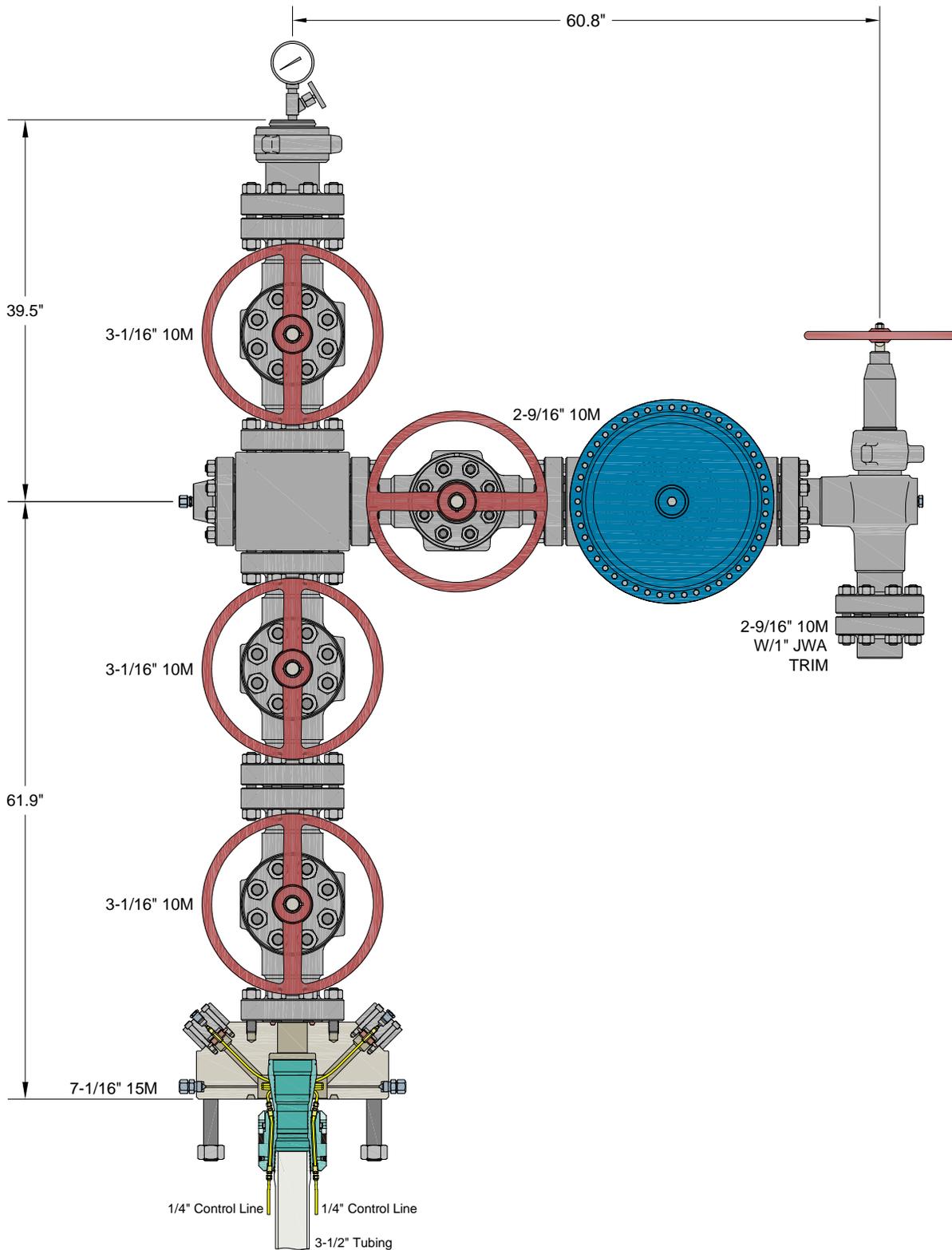
ALL DIMENSIONS APPROXIMATE

# CACTUS WELLHEAD LLC

CIMAREX  
HOBBS, NM

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

DRAWN	VJK	05SEP23
APPRV		
DRAWING NO.	HBE0001018	



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ALL DIMENSIONS APPROXIMATE

# CACTUS WELLHEAD LLC

CIMAREX  
HOBBS, NM

7-1/16" 15M x 3-1/16" x 2-9/16" 10M Production Tree Assembly  
With 7-1/16" 15M x 3-1/16" 10M T40-CCL Tubing Head Adapter  
And 7-1/16" 3-1/2" T40-CCL Tubing Hanger

DRAWN	VJK	13DEC23
APPRV		
DRAWING NO.	HBE0001018	



**Cactus**

**Quotation**

**Quote Number : HBE0001018**

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

Date: 09/08/2023  
Valid For 30 Days

**Page 1 of 5**

**Bill To:** 7050

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

**Ship To:** 1016

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

	Quantity	Price	Ext Price
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CIMAREX

HOBBS, NM

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

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - \$49,338.02

CACTUS CONTACT:

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

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

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

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



**Quotation**

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

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



**Cactus**

**Quotation**

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

Date: 09/08/2023  
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**Page 3 of 5**

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

**OPTIONAL 15M ADAPTER**

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

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

<b>Matl:</b>	47,261.60
<b>Labor:</b>	0.00
<b>Misc:</b>	2,076.42
<b>Sales Tax:</b>	0.00
<b>Total:</b>	<b>49,338.02</b>



# Cactus

## Quotation

Quote Number : HBE0001018

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

Date: 09/08/2023

Valid For 30 Days

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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**
**Quote Number : HBE0001018**

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

Date: 09/08/2023

Valid For 30 Days

**Page 5 of 5**

material in respect of which such claim is made.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



CERTIFICATE OF QUALITY

LTYT/QR-5.7.1-19B

No: LT2024-156-001

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

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

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

LTYY/QR-5.7.1-28

No: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 <sup>rd</sup> edition
Product Specification	3"×10000psi×35ft (10.67m)	Serial Number	VTC-7660257
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
customer number	PO890145-001	Inspection Date	2024.08.30

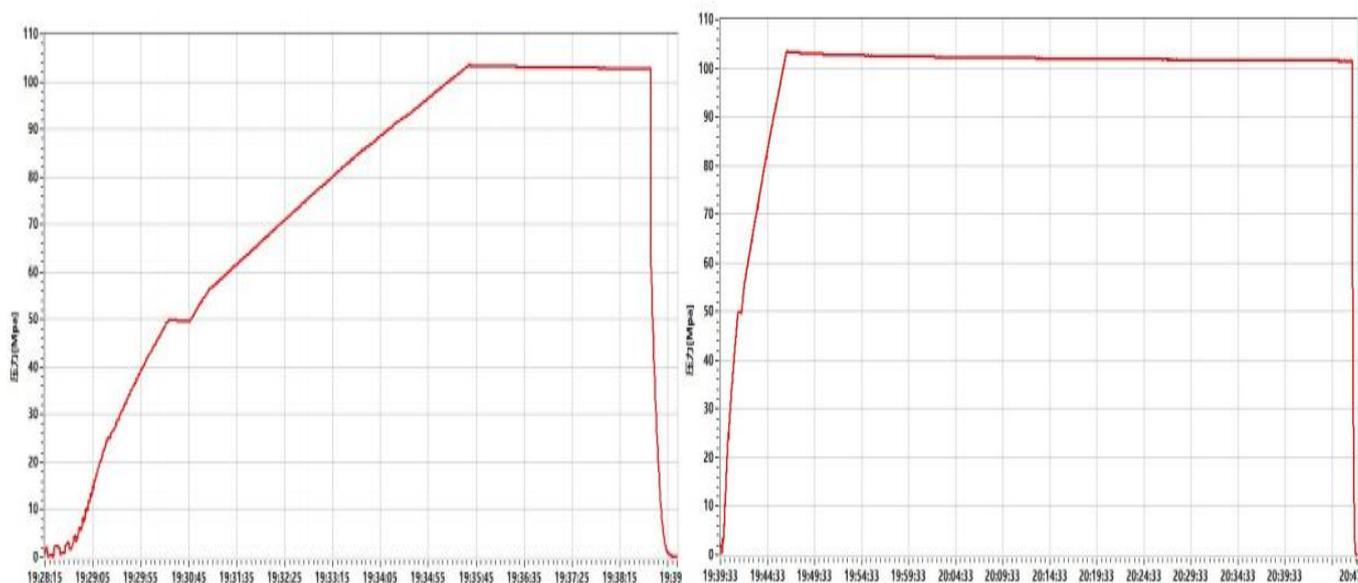
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than ±2%
Testing result	10000psi (69.0MPa) ,Rate of length change 0.6%

Hydrostatic testing

Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leakage.
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage

Graph of pressure testing:



Conclusion	The inspected items meet standard requirements of API Spec 16C 3 <sup>rd</sup> edition		16C-0403	
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name: Choke And Kill Hose

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

Serial Number: VTC-7660257

customer number: PO890145-001

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

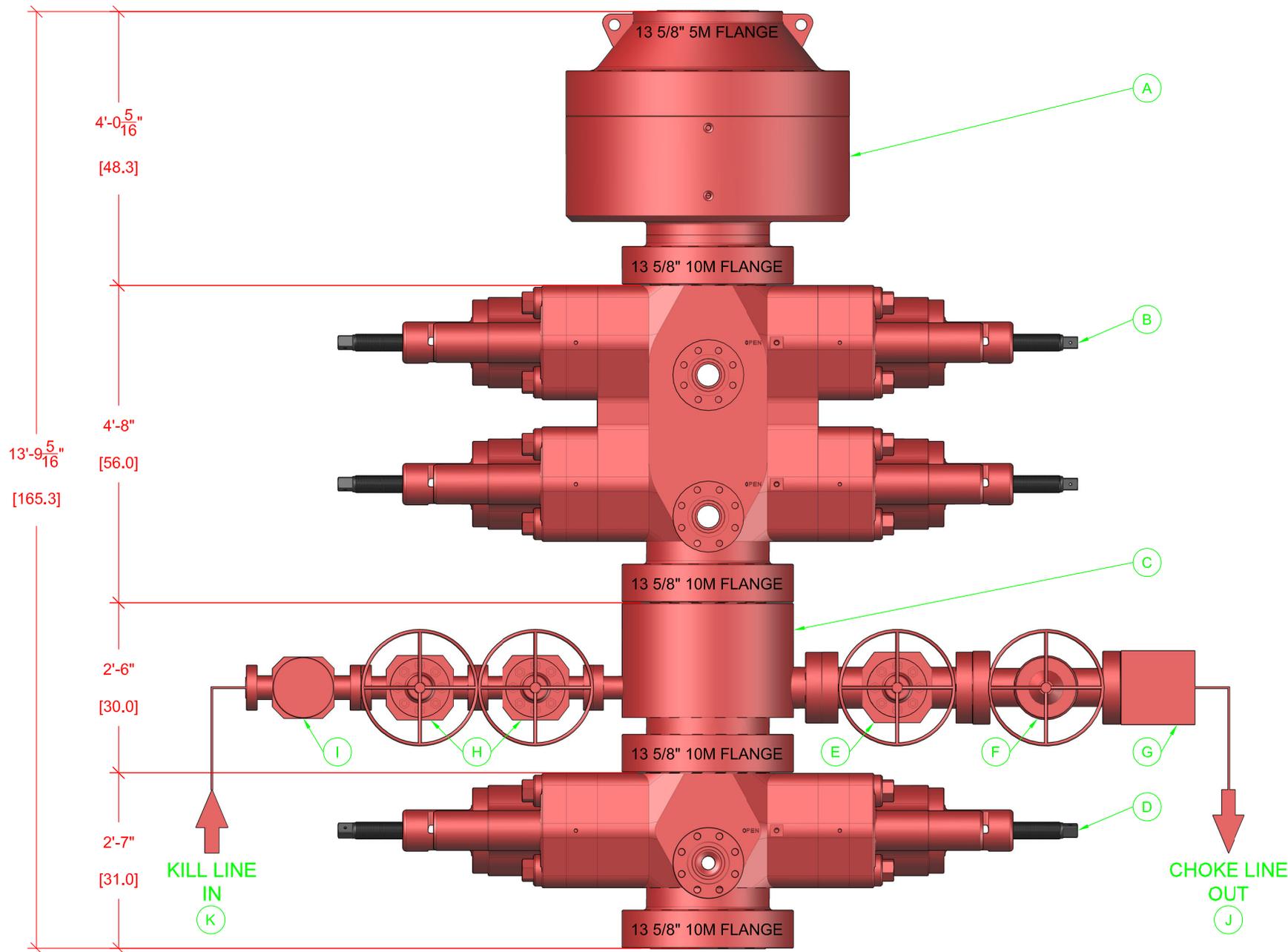
The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Sep,2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3<sup>rd</sup> edition on Sep 3, 2024. The overall condition is good. This is to certify that the Choke And Kill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

QC Manager: Jane C

Date:Sep 3, 2024



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

THIS DRAWING IS OWNED BY AND CONTAINS PROPRIETARY INFORMATION OF CACTUS DRILLING COMPANY, L.L.C. IT IS CONDITIONALLY LOANED AND IS TO BE RETURNED UPON COMPLETION OF WORK OR UPON EARLIER REQUEST. THE BORROWER BY RECEIVING IT HAS AGREED NOT TO REPRODUCE NOR TO COPY IT IN WHOLE OR IN PART NOR TO FURNISH INFORMATION FROM IT TO OTHERS NOR TO MAKE ANY USE OF IT OR THE INFORMATION CONTAINED THEREIN EXCEPT FOR OR UNDER SPECIFIC LICENSE FROM CACTUS DRILLING COMPANY, L.L.C.

TOLERANCE UNLESS OTHERWISE SPECIFIED  
DIMENSIONS IN INCHES

DECIMAL	DIMENSION	CONCENTRICITY
X.X	±.1	.1 F.I.R.
X.XX	±.06	.06 F.I.R.
X.XXX	±.010	.010 F.I.R.

ANGLES ± .5 DEGREES

ACAD FILE: CAC148-A-005-00-RO

CUSTOMER INFO:  
FILE: R-148\_BOP.dwg  
DWG BY: IJA 9/10/2021  
CHK BY:  
APP BY:

SCALE: 1:25

**CACTUS** Drilling Co., L.L.C.  
Oklahoma City, OK, U.S.A.  
Tel: 405-577-5347 Fax: 405-577-9306

TITLE:  
**RIG 148  
BOP STACK-UP**

SIZE  
A CAC148-A005

SI  
1/1



# DWC/C-IS PLUS™

## Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	API DRIFT (in.)	RBW%	CONNECTION
5.000	Nominal: 18.00 Plain End: 17.95	0.362	VST P110RY	4.151	87.5	DWC/C-IS PLUS

PIPE PROPERTIES			CONNECTION PROPERTIES		
Outside Diameter	5.000	in.	Connection Type	Semi-Premium T&C	
Inside Diameter	4.276	in.	Connection O.D. (nom)	5.800	in.
Nominal Area	5.275	sq.in.	Connection I.D. (nom)	4.276	in.
Grade Type	API 5CT		Make-Up Loss	4.063	in.
Min. Yield Strength	110	ksi	Coupling Length	9.125	in.
Max. Yield Strength	125	ksi	Critical Cross Section	5.275	sq.in.
Min. Tensile Strength	125	ksi	Tension Efficiency	100.0%	of pipe
Yield Strength	580	klb	Compression Efficiency	100.0%	of pipe
Ultimate Strength	659	klb	Internal Pressure Efficiency	100.0%	of pipe
Min. Internal Yield	13,940	psi	External Pressure Efficiency	100.0%	of pipe
Collapse	13,470	psi			

CONNECTION PERFORMANCES			FIELD END TORQUE VALUES		
Yield Strength	580	klb	Min. Make-up torque	13,300	ft.lb
Parting Load	659	klb	Opti. Make-up torque	14,200	ft.lb
Compression Rating	580	klb	Max. Make-up torque	15,100	ft.lb
Min. Internal Yield	13,940	psi	Min. Shoulder Torque	1,330	ft.lb
External Pressure	13,470	psi	Max. Shoulder Torque	10,640	ft.lb
Maximum Uniaxial Bend Rating	100.8	°/100 ft	Min. Delta Turn	-	Turns
Reference String Length w 1.4 Design Factor	23,020	ft.	Max. Delta Turn	0.200	Turns
			Maximum Operational Torque	16,900	ft.lb
			Maximum Torsional Value (MTV)	18,590	ft.lb

Need Help? Contact: [tech.support@vam-usa.com](mailto:tech.support@vam-usa.com)

Reference Drawing: 8084PP Rev.01 & 8084BP Rev.01

Date: 03/03/2020

Time: 01:10:05 PM



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

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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**DWC Connection Data Sheet Notes:**

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

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# Triste Draw 36-25 301H Casing Assumptions

## 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	1288	1288	10-3/4"	40.50	J-55	BT&C	2.83	5.61	12.06
9 7/8	0	11749	11308	7-5/8"	29.70	L-80	LT&C	2.71	1.30	1.69
6 3/4	0	10949	10949	5-1/2"	23.00	L-80	LT&C	2.00	1.77	2.39
6 3/4	10949	21699	11350	5"	18.00	P-110	BT&C	2.33	2.35	80.35
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet

# Technical Specifications

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

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



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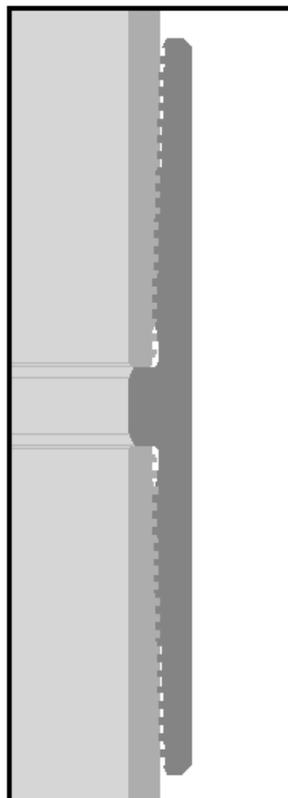
**Pipe Dimensions**  
 5.500 Nominal Pipe Body O.D. (in.)  
 4.670 Nominal Pipe Body I.D. (in.)  
 0.415 Nominal Wall Thickness (in.)  
 23.00 Nominal Weight (lbs./ft.)  
 22.56 Plain End Weight (lbs./ft.)  
 6.630 Nominal Pipe Body Area (sq. in.)

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

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

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

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



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

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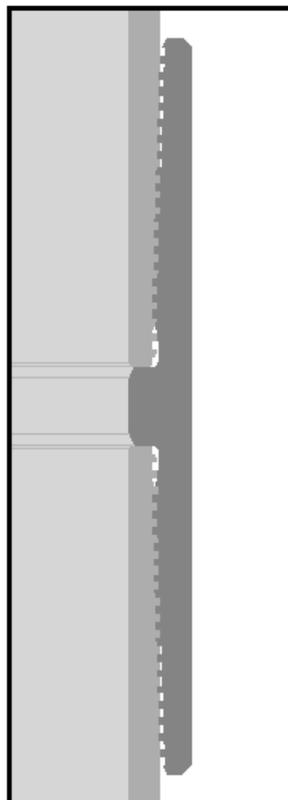
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Coterra: H2S Plan



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# H2S Drilling Operations Plan

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## Training

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

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

## H2S Detection and Alarm Systems

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

## Windsock and/or wind streamers

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

## Condition Flags & Signs

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

## Coterra: H2S Plan

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

## Well Control Equipment

1. See the pressure control section of this submission.

## Communication

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

## Drillstem Testing

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

Coterra: H2S Plan

# H2S Contingency Plan

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## 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<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

## Contacting Authorities

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

Coterra: H2S Plan

# Emergency Contacts

## Coterra Energy

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

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

## Third Party

PERMIAN REGION CONTACT NUMBERS					
CALL 911					
Air Ambulance Services					
Reeves County Medical - Pecos, TX		432-447-3551			
Aero Care - Midland, TX		800-627-2376			
Tri State Care Flight- Artesia, NM		800-800-0900			
Air Methods - Hobbs, NM		800-242-6199			
Fire / Police / Medical Care					
Sheriff's Office		Fire Departments		Hospital / Medical Care Facilities	
Andrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200
Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561
Howard County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211
Terry County	806-637-2212	Brownfield	806-637-6633		
Crane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555
Val Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566
		Denver City	806-592-3516	Yoakum County Hospital	806-592-2121
Pecos County	432-336-3521	Ft Stockton	432-336-8525		
Glasscock County	432-354-2361	Garden City			
Winkler County	432-586-3461	Kernit	432-586-2577	Winkler County Memorial	432-586-5864
		McCamey	432-652-8232	McCamey Hospital	432-652-8626
Loving County	432-377-2411	Mentone			
Irion County	325-835-2551	Mertzton			
Ward County	432-943-6703	Monahans	432-943-2211	Ward Memorial Hospital	432-943-2511
Ector County	432-335-3050	Odessa	432-335-4650	Odessa Regional Hosp.	432-582-8340
Crocket County	325-392-2661	Ozona	325-392-2626		
Reeves County	432-445-4901	Pecos	505-757-6511	Reeves County Hospital	432-447-3551
Yoakum County	806-456-2377	Plains	806-456-2288		
Garza County	806-495-3595	Post			
Upton County	432-693-2422	Rankin			
Coke County	915-453-2717	Robert Lee			
		Roscoe	325-766-3931		
Hockley County	806-894-3126	Levelland	806-894-3155	Covenant Health	806-894-4963
Tom Green County	325-655-8111	San Angelo	325-657-4355	San Angelo Comm. Med.	325-949-9511
Gaines County	432-758-9871	Seminole	432-758-3621	Memorial Hospital	432-758-5811
Terrell County	432-345-2525	Sanderson			
Scurry County	325-573-3551	Snyder	325-573-3546	DM Cogdell Memorial	325-573-6374
Sterling County	325-378-4771	Sterling City			
Nolan County	325-235-5471	Sweetwater	325-235-8130	Rolling Plains Memorial	325-235-1701
Culberson County	432-283-2060	Van Horn		Culberson Hospital	432-283-2760
New Mexico					
Lea County	505-396-3611	Knowles	505-392-7469	Lea Reg Med Ctr	575-492-5000
Eddy County	575-887-7551	Carlsbad	575-885-3125	Carlsbad Medical	575-887-4100
		Artesia	575-746-5050	Artesia Hospital	575-748-3333
Roosevelt County	575-356-4408				
Chaves County	575-624-7590				
Ground Ambulance Services					
Reeves County Medical		Pecos, TX		432-447-3551	





### Coterra Triste Draw 36-25 Federal Com 301H Rev0 mdv 19Oct23 Anti-Collision Summary Report

**Analysis Date-24hr Time:** October 23, 2023 - 06:45 PM ( UTC 0 )  
**Client:** COTERRA  
**Field:** NM Lea County (NAD 83)  
**Structure:** Coterra Triste Draw 36-25 Fed Com E2W2 Pad 301H  
**Slot:** Triste Draw 36-25 Federal Com 301H  
**Well:** Triste Draw 36-25 Federal Com 301H  
**Borehole:** Triste Draw 36-25 Federal Com 301H  
**Scan MD Range:** 0.00ft ~ 21698.66ft

**Analysis Method:** 3D Least Distance  
**Reference Trajectory:** Coterra Triste Draw 36-25 Federal Com 301H Rev0 mdv 19Oct23 (Def Plan)  
**Depth Interval:** Every 10.00 Measured Depth (ft)  
**Rule Set:** NAL Procedure: D&M AntiCollision Standard S002  
**Min Pts:** Absolute minima indicated.  
**Engine Version:** 2023.1.0.1  
**Database 1 Project:** Triste Draw 36-25 Federal Com 301H-COTERRA

**Trajectory Error Model:** ISCSWA0 3 - D 95 % Confidence 2.7955 sigma

#### Offset Trajectories Summary

#### Offset Selection Criteria

Bounding box scan: minimum Ct-Ct separation <= 8000ft  
 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

36 out of 47 are selected

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				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.

Coterra Triste Draw 36-25 Federal Com 211H Rev0 mdv 19Oct23 (DefinitivePlan)												
19.99	16.25	18.71	3.74	N/A	MAS = 4.95 (m)	0.00	0.00	CtCt<=15m<15.00				Fail Major
19.99	16.25	18.71	3.74	N/A	MAS = 4.95 (m)	23.00	23.00					Enter Alert
19.99	16.76	<b>8.40</b>	<b>3.25</b>	<b>1.82</b>	OSF1.50	1090.00	1090.00					WRP
19.99	20.05	6.30	-0.06	1.50	OSF1.50	1330.00	1330.00		OSF<1.50			MinPts
19.99	29.52	-0.02	-9.53	1.00	OSF1.50	1960.00	1960.00			OSF<1.00		Enter Minor
<b>19.99</b>	30.12	<b>-0.42</b>	<b>-10.13</b>	<b>0.98</b>	OSF1.50	2000.00	2000.00					Enter Major
20.12	30.56	<b>-0.59</b>	<b>-10.45</b>	<b>0.97</b>	OSF1.50	2030.00	2030.00					MinPt-CtCt
20.35	30.86	-0.55	-10.51	0.97	OSF1.50	2050.00	2050.00					MinPts
21.15	31.45	-0.14	-10.30	0.99	OSF1.50	2090.00	2090.99			OSF>1.00		MinPt-ADP
34.55	34.86	10.98	-0.31	1.49	OSF1.50	2330.00	2329.27		OSF>1.50			Exit Major
552.88	171.96	<b>437.89</b>	380.90	4.84	OSF1.50	10640.00	10396.02					Exit Minor
<b>552.38</b>	170.23	438.56	382.14	4.89	OSF1.50	10690.00	10446.02					MinPt-EOU
554.07	167.34	442.19	386.73	4.99	OSF1.50	10760.00	10516.02		OSF>5.00			MinPt-CtCt
<b>726.73</b>	185.48	602.74	541.25	5.90	OSF1.50	15850.00	11350.00					Exit Alert
727.62	188.15	<b>601.86</b>	539.47	5.82	OSF1.50	15950.00	11350.00					MinPt-CtCt
743.01	223.70	593.54	519.30	5.00	OSF1.50	17220.00	11350.00		OSF<5.00			MinPt-EOU
<b>742.99</b>	246.04	578.64	496.96	4.54	OSF1.50	18010.00	11350.00					Enter Alert
<b>743.02</b>	356.62	<b>504.96</b>	<b>386.40</b>	<b>3.13</b>	OSF1.50	21698.66	11350.00					MinPt-CtCt
												MinPts

30-025-40578 - Cimarex Triste Draw 36 State 6H Gyro+MWD 0ft to 11368ft MD (DefinitiveSurvey)												
3828.94	32.81	3826.93	3796.13	106931.61	MAS = 10.00 (m)	0.00	0.00					Fail Major
3828.90	32.81	3826.82	3796.09	39424.65	MAS = 10.00 (m)	23.00	23.00					Surface
<b>3828.51</b>	32.81	3825.46	<b>3795.70</b>	3677.05	MAS = 10.00 (m)	190.00	190.00					WRP
3831.56	32.81	<b>3823.91</b>	3798.75	675.46	MAS = 10.00 (m)	800.00	800.00					MinPts
3833.48	32.81	<b>3823.60</b>	3800.67	484.89	MAS = 10.00 (m)	1090.00	1090.00					MinPt-EOU
3835.26	32.81	<b>3823.34</b>	3802.45	377.31	MAS = 10.00 (m)	1380.00	1380.00					MinPt-EOU
3840.89	32.81	<b>3823.16</b>	3808.09	240.39	MAS = 10.00 (m)	2130.00	2129.96					MinPt-EOU
4506.24	137.55	4413.98	4368.70	<b>49.74</b>	OSF1.50	10400.00	10156.25					MinPt-SF
475.03	144.52	377.78	330.51	5.00	OSF1.50	15360.00	11350.00		OSF<5.00			Enter Alert
162.12	162.34	52.20	-0.21	1.50	OSF1.50	15700.00	11350.00		OSF<1.50			Enter Minor
116.11	171.50	-0.40	-55.39	1.00	OSF1.50	15770.00	11350.00			OSF<1.00		Enter Major
<b>100.67</b>	171.21	<b>-15.90</b>	<b>-70.54</b>	<b>0.85</b>	OSF1.50	15820.00	11350.00					MinPts
<b>100.22</b>	169.59	-15.28	-69.37	0.86	OSF1.50	15829.62	11350.00					MinPt-CtCt
107.80	158.97	-0.48	-51.17	1.00	OSF1.50	15870.00	11350.00			OSF>1.00		Exit Major
140.66	145.39	41.86	-4.73	1.45	OSF1.50	15930.00	11350.00					Exit Minor
447.47	138.65	354.11	308.82	4.91	OSF1.50	16270.00	11350.00		OSF>5.00			Exit Alert
5867.68	150.47	5766.77	5717.22	59.19	OSF1.50	21698.66	11350.00					TD

Coterra Triste Draw 36-25 Federal Com 351H Rev0 mdv 19Oct23 (DefinitivePlan)												
116.61	32.81	115.32	83.80	N/A	MAS = 10.00 (m)	0.00	0.00					Fail Minor
116.60	32.81	115.31	83.79	N/A	MAS = 10.00 (m)	23.00	23.00					Surface
116.60	32.81	<b>105.01</b>	83.79	11.20	MAS = 10.00 (m)	1090.00	1090.00					WRP
109.73	33.76	86.89	75.96	4.98	OSF1.50	2260.00	2259.64		OSF<5.00			MinPt-EOU
<b>108.53</b>	37.07	83.49	71.46	4.47	OSF1.50	2479.05	2476.82					Enter Alert
132.03	132.15	43.61	-0.12	1.50	OSF1.50	7110.00	6962.60		OSF<1.50			MinPt-CtCt
<b>131.03</b>	189.08	4.65	-58.04	1.04	OSF1.50	9540.00	9315.19					Enter Minor
131.21	189.58	<b>4.50</b>	<b>-58.36</b>	<b>1.04</b>	OSF1.50	9570.00	9344.23					MinPt-CtCt
178.60	180.02	58.26	-1.42	1.49	OSF1.50	10050.00	9809.86		OSF>1.50			MinPts
<b>220.76</b>	180.82	99.91	39.96	1.83	OSF1.50	11150.00	10904.29					Exit Minor
222.35	185.77	<b>98.17</b>	36.58	1.80	OSF1.50	11230.00	10979.85					MinPt-CtCt
224.16	188.01	98.50	<b>36.16</b>	<b>1.79</b>	OSF1.50	11260.00	11007.13					MinPt-EOU
224.98	188.78	98.80	36.20	<b>1.79</b>	OSF1.50	11270.00	11016.08					MinPt-ADP
652.92	197.90	520.66	455.02	4.97	OSF1.50	11960.00	11345.42		OSF>5.00			MinPt-SF
<b>831.04</b>	189.79	704.19	641.26	6.59	OSF1.50	15850.00	11350.00					Exit Alert
839.57	252.71	670.77	586.86	5.00	OSF1.50	18130.00	11350.00		OSF<5.00			MinPt-CtCt
<b>839.57</b>	253.28	670.39	586.29	4.99	OSF1.50	18150.00	11350.00					Enter Alert
<b>839.57</b>	359.32	<b>599.70</b>	<b>480.25</b>	<b>3.51</b>	OSF1.50	21698.66	11350.00					MinPt-CtCt
												MinPts

Coterra Triste Draw 36-25 Federal Com 302H Rev0 mdv 19Oct23 (DefinitivePlan)												
40.00	32.25	38.71	7.74	N/A	MAS = 9.83 (m)	0.00	0.00	CtCt<=15m<15.00				Warning Alert
39.99	32.25	38.71	7.74	N/A	MAS = 9.83 (m)	23.00	23.00					Enter Alert
39.99	32.25	<b>28.40</b>	7.74	3.76	MAS = 9.83 (m)	1090.00	1090.00					WRP
<b>39.99</b>	32.25	19.58	7.74	2.01	MAS = 9.83 (m)	2000.00	2000.00					MinPt-EOU
40.12	32.25	<b>19.42</b>	7.87	1.99	MAS = 9.83 (m)	2030.00	2030.00					MinPts
40.67	32.25	19.59	8.42	<b>1.98</b>	MAS = 9.83 (m)	2070.00	2069.99					MinPt-EOU
136.74	42.08	108.36	94.66	4.96	OSF1.50	2830.00	2818.94		OSF>5.00			MinPt-SF
1612.44	174.19	1495.98	1438.25	<b>13.96</b>	OSF1.50	10400.00	10156.25					Exit Alert
1617.68	174.81	1500.81	1442.87	<b>13.95</b>	OSF1.50	10510.00	10266.05					MinPt-SF
1618.52	174.90	1501.60	1443.63	<b>13.95</b>	OSF1.50	10540.00	10296.03					MinPt-SF
<b>1569.53</b>	177.28	1451.04	1392.27	13.35	OSF1.50	12065.06	11350.00					MinPt-CtCt
<b>1539.38</b>	227.64	1387.29	1311.74	10.18	OSF1.50	15850.00	11350.00					MinPt-SF
1539.64	228.45	<b>1387.01</b>	1311.19	10.15	OSF1.50	15890.00	11350.00					MinPt-CtCt
1539.99	228.87	1387.08	<b>1311.12</b>	10.13	OSF1.50	15910.00	11350.00					MinPt-EOU
<b>1569.77</b>	353.61	1333.71	1216.17	6.67	OSF1.50	20900.00	11350.00					MinPt-ADP
1569.78	376.06	<b>1318.74</b>	<b>1193.72</b>	<b>6.27</b>	OSF1.50	21698.66	11350.00					MinPt-CtCt
												MinPts

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
Coterra Triste Draw 36-25 Federal Com 401H Rev0 mdv 19Oct23 (DefinitivePlan)													
99.99	32.81	98.70	67.18	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert	Surface
99.98	32.81	98.70	67.18	N/A	MAS = 10.00 (m)	23.00	23.00						WRP
99.98	32.81	98.40	67.18	9.58	MAS = 10.00 (m)	1090.00	1090.00						MinPt-EOU
97.28	32.81	76.91	64.47	4.97	MAS = 10.00 (m)	2000.00	2000.00			OSF<5.00			Enter Alert
73.40	50.86	39.17	22.54	2.18	OSF1.50	3308.41	3282.11						MinPt-CtCt
74.46	54.11	38.06	20.35	2.07	OSF1.50	3530.00	3496.64						MinPt-EOU
75.62	55.49	38.30	20.13	2.05	OSF1.50	3630.00	3593.46						MinPt-ADP
77.53	57.10	39.14	20.43	2.05	OSF1.50	3750.00	3709.63						MinPt-SF
360.18	179.12	240.44	181.06	3.02	OSF1.50	10999.44	10755.46						MinPt-CtCt
360.18	179.12	240.44	181.06	3.02	OSF1.50	11000.00	10756.02						MinPts
545.07	165.92	434.13	379.15	4.95	OSF1.50	11700.00	11294.06			OSF<5.00			Exit Alert
1170.25	169.98	1056.61	1000.28	10.38	OSF1.50	15260.06	11350.00						MinPt-CtCt
1171.46	173.47	1055.48	997.98	10.18	OSF1.50	15400.00	11350.00						MinPt-EOU
1172.97	175.28	1055.79	997.69	10.09	OSF1.50	15470.00	11350.00						MinPt-ADP
1170.25	205.96	1032.62	964.29	8.56	OSF1.50	16644.51	11350.00						MinPt-CtCt
1170.25	315.25	959.75	855.00	5.58	OSF1.50	20370.00	11350.00						MinPt-CtCt
1170.25	351.97	935.27	818.28	5.00	OSF1.50	21560.00	11350.00			OSF<5.00			Enter Alert
1170.25	356.24	932.43	814.01	4.94	OSF1.50	21698.66	11350.00						MinPts
Coterra Triste Draw 36-25 Federal Com 501H Rev0 mdv 19Oct23 (DefinitivePlan)													
124.18	32.81	122.90	91.38	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert	Surface
124.18	32.81	122.89	91.37	N/A	MAS = 10.00 (m)	23.00	23.00						WRP
124.18	32.81	112.59	91.37	11.93	MAS = 10.00 (m)	1090.00	1090.00						MinPt-EOU
124.18	32.81	107.78	91.37	7.99	MAS = 10.00 (m)	1600.00	1600.00						MinPts
124.83	32.81	105.90	92.02	6.90	MAS = 10.00 (m)	1860.00	1860.00						MinPt-EOU
135.58	32.81	113.61	102.77	6.41	MAS = 10.00 (m)	2180.00	2179.88						MinPt-SF
186.37	56.65	148.27	129.72	5.00	OSF1.50	3600.00	3564.41			OSF<5.00			Enter Alert
252.16	173.37	136.24	78.78	2.19	OSF1.50	8990.00	8685.89						MinPt-CtCt
252.37	174.10	135.98	78.27	2.18	OSF1.50	8930.00	8724.62						MinPt-EOU
252.63	174.42	136.02	78.21	2.18	OSF1.50	8950.00	8743.98						MinPt-ADP
252.99	174.72	136.18	78.27	2.18	OSF1.50	8970.00	8763.34						MinPt-SF
425.34	179.01	305.67	246.33	3.58	OSF1.50	11210.00	10961.31						MinPt-CtCt
426.06	181.27	304.89	244.79	3.54	OSF1.50	11270.00	11016.08						MinPt-EOU
427.13	182.56	305.10	244.58	3.52	OSF1.50	11300.00	11042.43						MinPt-ADP
433.53	186.38	308.95	247.16	3.50	OSF1.50	11380.00	11108.65						MinPt-SF
653.52	198.69	520.74	454.83	4.95	OSF1.50	11860.00	11332.58			OSF<5.00			Exit Alert
1665.44	189.09	1539.06	1476.35	13.27	OSF1.50	15850.00	11350.00						MinPt-CtCt
1669.71	251.21	1501.91	1418.50	10.00	OSF1.50	18110.00	11350.00						MinPt-CtCt
1669.72	359.12	1429.96	1310.60	6.99	OSF1.50	21698.66	11350.00						MinPts
30-025-40578 - Cimarex Triste Draw 36 State 6H ST01 MWD 10466ft to 15038ft (DefinitiveSurvey)													
3828.94	32.81	3826.93	3796.13	106931.61	MAS = 10.00 (m)	0.00	0.00					Warning Alert	Surface
3828.90	32.81	3826.82	3796.09	39424.65	MAS = 10.00 (m)	23.00	23.00						WRP
3828.51	32.81	3825.49	3795.70	3677.05	MAS = 10.00 (m)	190.00	190.00						MinPts
3831.56	32.81	3823.91	3798.75	675.46	MAS = 10.00 (m)	800.00	800.00						MinPt-EOU
3833.48	32.81	3823.60	3800.67	484.89	MAS = 10.00 (m)	1090.00	1090.00						MinPt-EOU
3835.26	32.81	3823.34	3802.45	377.31	MAS = 10.00 (m)	1380.00	1380.00						MinPt-EOU
3840.89	32.81	3823.16	3808.09	240.39	MAS = 10.00 (m)	2130.00	2129.96						MinPt-EOU
425.84	130.28	338.44	295.55	4.95	OSF1.50	10880.00	10636.02			OSF<5.00			Enter Alert
183.57	153.03	76.69	30.54	1.83	OSF1.50	11320.00	11059.56						MinPt-SF
182.81	152.49	76.09	30.32	1.83	OSF1.50	11330.00	11067.99						MinPt-ADP
182.43	151.86	75.95	30.57	1.84	OSF1.50	11340.00	11076.32						MinPt-EOU
182.38	151.51	76.04	30.87	1.84	OSF1.50	11345.00	11080.52						MinPt-CtCt
379.62	131.82	285.87	247.80	4.75	OSF1.50	12110.00	11350.00						MinPt-EOU
379.20	130.76	286.18	248.44	4.79	OSF1.50	12190.00	11350.00						MinPt-CtCt
376.77	127.55	285.90	249.22	4.90	OSF1.50	12420.00	11350.00						MinPt-ADP
376.47	127.20	285.85	249.27	4.91	OSF1.50	12460.00	11350.00						MinPt-EOU
376.36	126.89	285.95	249.47	4.92	OSF1.50	12510.00	11350.00						MinPt-CtCt
378.18	125.63	288.65	252.55	5.00	OSF1.50	12710.00	11350.00			OSF>5.00			Exit Alert
363.40	121.44	276.58	241.97	5.00	OSF1.50	13650.00	11350.00			OSF<5.00			Enter Alert
361.28	122.85	273.56	238.44	4.89	OSF1.50	13790.00	11350.00						MinPt-CtCt
361.43	123.30	273.42	238.13	4.87	OSF1.50	13830.00	11350.00						MinPt-EOU
361.53	123.42	273.44	238.11	4.87	OSF1.50	13840.00	11350.00						MinPt-ADP
363.20	124.76	274.23	238.44	4.83	OSF1.50	13990.00	11350.00						MinPt-ADP
365.31	126.92	274.92	238.40	4.76	OSF1.50	14260.00	11350.00						MinPt-ADP
369.95	129.00	278.18	240.95	4.74	OSF1.50	14520.00	11350.00						MinPt-SF
372.37	129.75	280.09	242.62	4.74	OSF1.50	14620.00	11350.00						MinPt-SF
380.27	134.64	284.70	245.63	4.64	OSF1.50	15100.00	11350.00						MinPt-SF
376.54	136.70	279.59	239.84	4.52	OSF1.50	15260.00	11350.00						MinPt-CtCt
376.64	137.03	279.47	239.61	4.51	OSF1.50	15270.00	11350.00						MinPt-EOU
376.87	137.36	279.49	239.52	4.50	OSF1.50	15280.00	11350.00						MinPt-ADP
379.98	138.88	281.62	241.09	4.47	OSF1.50	15330.00	11350.00						MinPt-SF
453.71	147.62	349.98	306.09	4.99	OSF1.50	15630.00	11350.00			OSF>5.00			Exit Alert
5922.33	158.18	5815.66	5764.15	57.45	OSF1.50	21698.66	11350.00						TD
Cimarex Triste Draw 25 Fed Com #19H Rev0 RM 31Jul19 (DefinitivePlan)													
4594.43	32.81	4592.45	4561.62	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert	Surface
4594.43	32.81	4592.41	4561.62	99368.58	MAS = 10.00 (m)	23.00	23.00						WRP
4594.43	32.81	4583.80	4561.62	530.55	MAS = 10.00 (m)	1090.00	1090.00						MinPt-EOU
4594.43	32.81	4576.40	4561.62	282.32	MAS = 10.00 (m)	2000.00	2000.00						MinPts
4594.67	32.81	4576.16	4561.86	274.12	MAS = 10.00 (m)	2060.00	2060.00						MinPt-EOU
5630.50	145.24	5533.13	5485.26	58.79	OSF1.50	10830.00	10586.02						MinPts
5630.52	145.26	5533.13	5485.26	58.80	OSF1.50	10840.00	10596.02						MinPt-EOU
493.98	158.43	383.77	335.54	4.98	OSF1.50	16860.00	11350.00			OSF<5.00			Enter Alert
304.44	180.80	178.24	123.63	2.63	OSF1.50	17439.90	11350.00						MinPt-CtCt
304.49	291.89	104.24	12.60	1.57	OSF1.50	21698.66	11350.00						MinPts
30-025-40184 - Cimarex Triste Draw 36 State 1H Gyro+MWD Off to 13942ft MD (Offset) (DefinitiveSurvey)													
4149.66	32.81	4147.59	4116.85	48877.43	MAS = 10.00 (m)	0.00	0.00					Warning Alert	Surface
4149.65	32.81	4147.58	4116.84	43593.91	MAS = 10.00 (m)	23.00	23.00						WRP
4145.58	32.81	4135.70	4112.77	524.74	MAS = 10.00 (m)	1090.00	1090.00						MinPt-EOU

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	1856.81	132.88	1763.75	1723.93	23.14	OSF1.50	12200.00	11350.00				MinPt-CtCt	
	1859.50	129.46	1768.71	1730.03	23.86	OSF1.50	12460.00	11350.00				MinPt-ADP	
	1859.45	129.41	1768.71	1730.04	23.87	OSF1.50	12470.00	11350.00				MinPt-EOU	
	1859.42	129.31	1768.75	1730.12	23.89	OSF1.50	12490.00	11350.00				MinPt-CtCt	
	1859.02	128.29	1769.02	1730.73	24.10	OSF1.50	12590.00	11350.00				MinPts	
	1859.00	128.26	1769.03	1730.74	24.10	OSF1.50	12600.00	11350.00				MinPt-CtCt	
	1857.35	126.73	1768.41	1730.63	24.41	OSF1.50	12790.00	11350.00				MinPts	
	1857.38	126.75	1768.42	1730.63	24.40	OSF1.50	12800.00	11350.00				MinPt-ADP	
	1858.48	126.96	1769.42	1731.52	24.34	OSF1.50	12870.00	11350.00				MinPt-SF	
	1873.64	123.54	1786.82	1750.09	25.33	OSF1.50	13460.00	11350.00				MinPt-ADP	
	1873.62	123.53	1786.82	1750.10	25.33	OSF1.50	13470.00	11350.00				MinPt-EOU	
	1873.61	123.50	1786.83	1750.11	25.34	OSF1.50	13490.00	11350.00				MinPt-CtCt	
	1874.20	123.46	1787.45	1750.74	25.35	OSF1.50	13650.00	11350.00				MinPt-SF	
	1874.41	123.10	1787.88	1751.31	25.44	OSF1.50	13710.00	11350.00				MinPt-CtCt	
	1874.41	123.11	1787.88	1751.30	25.44	OSF1.50	13720.00	11350.00				MinPts	
	1875.06	123.24	1788.46	1751.83	25.41	OSF1.50	13840.00	11350.00				MinPt-SF	
	1869.68	123.46	1782.81	1746.12	25.30	OSF1.50	14100.00	11350.00				MinPt-CtCt	
	1869.67	123.71	1782.74	1745.96	25.24	OSF1.50	14120.00	11350.00				MinPt-EOU	
	1869.77	123.83	1782.76	1745.94	25.21	OSF1.50	14130.00	11350.00				MinPt-ADP	
	1871.83	124.87	1784.16	1746.95	24.98	OSF1.50	14210.00	11350.00				MinPt-SF	
	1872.68	124.49	1785.22	1748.19	25.10	OSF1.50	14310.00	11350.00				MinPt-ADP	
	1875.10	126.22	1786.49	1748.88	24.75	OSF1.50	14550.00	11350.00				MinPt-ADP	
	1883.33	131.36	1791.32	1751.97	23.76	OSF1.50	15010.00	11350.00				MinPt-SF	
	1883.86	131.71	1791.61	1752.16	23.71	OSF1.50	15070.00	11350.00				MinPt-EOU	
	1884.12	132.02	1791.66	1752.10	23.65	OSF1.50	15090.00	11350.00				MinPt-ADP	
	1887.20	134.15	1793.30	1753.05	23.27	OSF1.50	15280.00	11350.00				MinPt-CtCt	
	1887.40	134.83	1793.05	1752.56	23.14	OSF1.50	15320.00	11350.00				MinPt-EOU	
	1887.82	135.35	1793.14	1752.47	23.05	OSF1.50	15350.00	11350.00				MinPt-ADP	
	1891.43	137.50	1795.31	1753.93	22.69	OSF1.50	15490.00	11350.00				MinPt-SF	
	1892.12	137.95	1795.69	1754.17	22.62	OSF1.50	15540.00	11350.00				MinPt-EOU	
	1894.01	141.12	1795.48	1752.89	22.08	OSF1.50	15720.00	11350.00				MinPt-EOU	
	1895.10	142.45	1795.69	1752.68	21.86	OSF1.50	15790.00	11350.00				MinPt-ADP	
	1991.31	157.35	1882.22	1833.96	20.50	OSF1.50	16500.00	11350.00				MinPt-SF	
	5970.96	174.86	5852.73	5796.10	52.68	OSF1.50	21698.66	11350.00				TD	
MR 35 26 Federal Com 603H R0 mdv 31May23 (DefinitivePlan)													Warning Alert
	4162.13	32.81	4160.84	4129.32	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4162.08	32.81	4160.79	4129.27	566018.78	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	4162.05	32.81	4160.76	4129.25	1525769.13	MAS = 10.00 (m)	23.00	23.00				WRP	
	1333.25	165.48	1222.60	1167.77	12.15	OSF1.50	10999.44	10755.46				MinPt-CtCt	
	1333.25	165.49	1222.60	1167.76	12.15	OSF1.50	11000.00	10756.02				MinPt-EOU	
	1333.32	165.56	1222.61	1167.75	12.14	OSF1.50	11010.00	10766.02				MinPt-ADP	
	1334.73	165.86	1223.83	1168.87	12.13	OSF1.50	11050.00	10805.96				MinPt-SF	
	1513.71	245.47	1349.74	1268.24	9.28	OSF1.50	15260.06	11350.00				MinPt-CtCt	
	1514.76	248.50	1348.76	1266.26	9.17	OSF1.50	15350.00	11350.00				MinPt-EOU	
	1516.24	250.24	1349.09	1266.01	9.12	OSF1.50	15400.00	11350.00				MinPt-ADP	
	1513.78	293.18	1317.99	1220.59	7.77	OSF1.50	16644.51	11350.00				MinPt-CtCt	
	1514.57	455.27	1210.73	1059.30	5.00	OSF1.50	20890.00	11350.00	OSF<5.00			Enter Alert	
	1514.71	487.47	1189.40	1027.24	4.67	OSF1.50	21698.66	11350.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 402H Rev0 mdv 19Oct23 (DefinitivePlan)													Pass
	134.15	32.81	132.87	101.34	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	134.14	32.81	132.85	101.33	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	134.14	32.81	122.56	101.33	12.90	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	133.25	32.81	112.53	100.45	6.70	MAS = 10.00 (m)	2040.00	2040.00				MinPts	
	133.53	32.81	112.25	100.72	6.53	MAS = 10.00 (m)	2100.00	2099.98				MinPt-EOU	
	152.21	38.17	126.43	114.03	6.10	OSF1.50	2560.00	2556.44				MinPt-SF	
	955.76	178.58	836.37	777.17	8.06	OSF1.50	11320.00	11059.56				MinPt-CtCt	
	956.06	179.35	836.18	776.70	8.03	OSF1.50	11360.00	11092.69				MinPt-EOU	
	956.22	179.55	836.19	776.67	8.02	OSF1.50	11370.00	11100.72				MinPt-ADP	
	967.58	183.44	844.95	784.13	7.95	OSF1.50	11540.00	11219.32				MinPt-SF	
	1405.78	207.06	1267.41	1198.72	10.23	OSF1.50	15850.00	11350.00				MinPt-CtCt	
	1406.30	208.68	1266.55	1197.62	10.15	OSF1.50	15920.00	11350.00				MinPt-EOU	
	1407.08	209.63	1267.00	1197.45	10.11	OSF1.50	15960.00	11350.00				MinPt-ADP	
	1424.99	341.15	1197.23	1083.84	6.28	OSF1.50	20830.00	11350.00				MinPt-CtCt	
	1425.00	366.79	1180.14	1058.21	5.84	OSF1.50	21698.66	11350.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 502H Rev0 mdv 19Oct23 (DefinitivePlan)													Pass
	137.92	32.81	136.63	105.11	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	137.91	32.81	136.63	105.10	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	137.91	32.81	126.32	105.10	13.26	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	137.91	32.81	121.51	105.10	8.88	MAS = 10.00 (m)	1600.00	1600.00				MinPts	
	138.13	32.81	121.25	105.32	8.63	MAS = 10.00 (m)	1650.00	1650.00				MinPt-EOU	
	149.99	32.81	130.30	117.18	7.97	MAS = 10.00 (m)	1950.00	1950.00				MinPt-SF	
	1007.68	132.95	918.72	874.73	11.44	OSF1.50	7450.00	7291.77				MinPt-SF	
	1477.98	172.15	1362.89	1305.83	12.94	OSF1.50	10370.00	10126.36				MinPt-SF	
	1480.00	172.39	1364.74	1307.60	12.94	OSF1.50	10400.00	10156.25				MinPt-SF	
	1484.90	172.95	1369.27	1311.95	12.94	OSF1.50	10500.00	10256.06				MinPt-SF	
	1481.09	175.83	1363.54	1305.26	12.70	OSF1.50	11400.00	11124.18				MinPt-CtCt	
	1481.24	176.19	1363.45	1305.05	12.67	OSF1.50	11430.00	11146.63				MinPt-EOU	
	1481.35	176.32	1363.48	1305.03	12.66	OSF1.50	11440.00	11153.87				MinPt-ADP	
	1494.26	179.24	1374.44	1315.03	12.57	OSF1.50	11650.00	11274.97				MinPt-SF	
	2257.31	209.94	2117.02	2047.37	16.20	OSF1.50	15850.00	11350.00				MinPt-CtCt	
	2257.72	211.28	2116.54	2046.44	16.10	OSF1.50	15910.00	11350.00				MinPt-EOU	
	2258.48	212.20	2116.68	2046.28	16.03	OSF1.50	15950.00	11350.00				MinPt-ADP	
	2278.18	348.21	2045.68	1929.94	9.84	OSF1.50	21040.00	11350.00				MinPt-CtCt	
	2278.16	367.55	2032.80	1910.61	9.32	OSF1.50	21698.66	11350.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 352H Rev0 mdv 19Oct23 (DefinitivePlan)													Pass
	152.30	32.81	151.02	119.49	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	152.29	32.81	151.01	119.48	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	152.29	32.81	140.71	119.48	14.66	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	152.28	32.81	133.89	119.48	8.69	MAS = 10.00 (m)	1800.00	1800.00				MinPts	
	152.61	32.81	133.54	119.80	8.38	MAS = 10.00 (m)	1870.00	1870.00				MinPt-EOU	
	161.07	32.81	139.67	128.26	7.84	MAS = 10.00 (m)	2120.00	2119.96				MinPt-SF	
	1739.62	173.11	1623.89	1566.52	15.15	OSF1.50	10400.00	10156.25				MinPt-SF	
	1745.93	173.87	1629.69	1572.06	15.14	OSF1.50	10550.00	10306.03				MinPt-SF	
	1739.68	176.38	1621.75	1563.28	14.87	OSF1.50	11430.00	11146.63				MinPt-CtCt	
	1739.76	176.68	1621.65	1563.08	14.85	OSF1.50	11460.00	11168.00				MinPt-EOU	
	1739.85	176.78	1621.67	1563.08	14.84	OSF1.50	11470.00	11174.88				MinPt-ADP	
	1752.46	179.25	1632.63	1573.21	14.74	OSF1.50	11690.00	11290.56				MinPt-SF	
	1735.67	221.23	158										

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	1736.41	222.72	1587.60	1513.60	11.74	OSF1.50	15920.00	11350.00				MinPt-ADP	
	1762.60	294.05	1566.24	1468.55	9.02	OSF1.50	18850.00	11350.00				MinPt-CtCt	
	1762.65	373.25	1513.50	1389.41	7.10	OSF1.50	21698.66	11350.00				MinPts	
30-025-40665 - Cimarex Triste Draw 36 State 2H MWD Offt to 13691ft (DefinitiveSurvey)													Pass
	3955.17	32.81	3953.17	3922.36	225815.04	MAS = 10.00 (m)	0.00	0.00				Surface	
	3955.16	32.81	3953.11	3922.35	55653.88	MAS = 10.00 (m)	23.00	23.00				WRP	
	3955.01	32.81	3952.08	3922.20	4155.14	MAS = 10.00 (m)	190.00	190.00				MinPts	
	3953.56	32.81	3944.24	3920.75	538.58	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	3950.20	32.81	3934.40	3917.39	281.18	MAS = 10.00 (m)	2040.00	2040.00				MinPts	
	3950.35	32.81	3934.27	3917.54	275.84	MAS = 10.00 (m)	2080.00	2079.99				MinPt-EOU	
	1050.22	165.96	938.39	884.26	9.67	OSF1.50	9813.17	9579.65				MinPt-CtCt	
	1050.87	167.51	937.85	883.36	9.61	OSF1.50	9850.00	9615.31				MinPt-EOU	
	1051.27	167.91	937.94	883.36	9.59	OSF1.50	9860.00	9624.99				MinPt-ADP	
	1059.85	171.34	943.82	888.51	9.53	OSF1.50	9960.00	9721.96				MinPt-SF	
	1626.12	150.51	1521.23	1475.62	17.68	OSF1.50	12280.00	11350.00				MinPt-CtCt	
	1626.16	150.67	1521.17	1475.49	17.65	OSF1.50	12290.00	11350.00				MinPt-EOU	
	1626.42	151.00	1521.23	1475.42	17.60	OSF1.50	12310.00	11350.00				MinPt-ADP	
	1627.67	151.66	1522.10	1476.02	17.52	OSF1.50	12350.00	11350.00				MinPt-SF	
	1707.74	130.52	1616.28	1577.22	21.69	OSF1.50	13780.00	11350.00				MinPt-SF	
	1712.17	126.87	1623.07	1585.30	22.48	OSF1.50	14490.00	11350.00				MinPt-SF	
	1649.58	142.37	1550.16	1507.19	19.04	OSF1.50	15860.00	11350.00				MinPt-CtCt	
	1649.89	143.30	1549.88	1506.60	18.90	OSF1.50	15890.00	11350.00				MinPt-EOU	
	1650.41	143.91	1549.99	1506.49	18.82	OSF1.50	15910.00	11350.00				MinPt-ADP	
	1749.73	160.45	1638.56	1589.28	17.63	OSF1.50	16470.00	11350.00				MinPt-SF	
	5748.62	178.52	5627.80	5570.10	49.76	OSF1.50	21698.66	11350.00				TD	
Coterra Gin Slinger 23-14 Federal Com 32H Rev0 kFc 19Dec22 (DefinitivePlan)													Pass
	10361.25	32.81	10359.23	10328.44	243638.63	MAS = 10.00 (m)	0.00	0.00				Surface	
	10361.25	32.81	10359.15	10328.44	83533.24	MAS = 10.00 (m)	23.00	23.00				WRP	
	10124.08	93.44	10061.20	10030.64	165.62	OSF1.50	4790.00	4716.50				MinPt-EOU	
	10124.04	94.63	10060.42	10029.41	163.23	OSF1.50	4860.00	4784.27				MinPt-CtCt	
	10127.05	106.38	10055.59	10020.67	144.97	OSF1.50	5470.00	5374.84				MinPt-EOU	
	10127.62	107.05	10055.72	10020.58	144.07	OSF1.50	5520.00	5423.25				MinPt-ADP	
	10608.07	180.73	10487.04	10427.34	88.83	OSF1.50	10400.00	10156.25				MinPt-SF	
	1067.81	288.52	894.96	799.29	5.68	OSF1.50	21698.66	11350.00				MinPts	
30-025-40343 - Cimarex Triste Draw 36 State 4H Gyro+MWD Offt to 15427ft MD (Offset) (DefinitiveSurvey)													Pass
	3693.76	32.81	3691.71	3660.95	53236.59	MAS = 10.00 (m)	0.00	0.00				MinPts	
	3693.78	32.81	3691.63	3660.97	21988.12	MAS = 10.00 (m)	23.00	23.00				WRP	
	3693.96	32.81	3691.53	3661.15	8043.82	MAS = 10.00 (m)	80.00	80.00				MinPt-EOU	
	3690.89	32.81	3681.42	3658.09	492.40	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	3690.09	32.81	3679.32	3657.28	409.41	MAS = 10.00 (m)	1310.00	1310.00				MinPts	
	3692.62	32.81	3676.96	3659.81	265.47	MAS = 10.00 (m)	2010.00	2010.00				MinPt-EOU	
	1599.02	294.73	1401.02	1304.29	8.24	OSF1.50	11440.00	11153.87				MinPt-SF	
	1598.43	294.64	1400.43	1303.79	8.25	OSF1.50	11490.00	11188.25				MinPt-ADP	
	1598.41	294.61	1400.42	1303.80	8.25	OSF1.50	11500.00	11194.73				MinPts	
	1593.96	253.72	1422.87	1340.24	9.61	OSF1.50	11810.00	11323.10				MinPt-EOU	
	1591.43	246.89	1424.84	1344.54	9.87	OSF1.50	11980.00	11347.00				MinPt-CtCt	
	1590.30	226.24	1437.40	1364.05	10.80	OSF1.50	12410.00	11350.00				MinPt-ADP	
	1582.97	219.07	1434.87	1363.90	11.11	OSF1.50	12620.00	11350.00				MinPt-ADP	
	1582.03	217.76	1434.81	1364.27	11.17	OSF1.50	12660.00	11350.00				MinPt-EOU	
	1580.66	215.84	1434.73	1364.81	11.26	OSF1.50	12730.00	11350.00				MinPt-EOU	
	1579.90	212.01	1436.56	1367.89	11.46	OSF1.50	12870.00	11350.00				MinPt-CtCt	
	1572.60	195.07	1440.51	1377.53	12.44	OSF1.50	13310.00	11350.00				MinPt-ADP	
	1568.50	190.91	1439.17	1377.59	12.69	OSF1.50	13420.00	11350.00				MinPt-ADP	
	1562.46	187.54	1435.38	1374.92	12.87	OSF1.50	13550.00	11350.00				MinPt-ADP	
	1547.60	178.69	1426.39	1368.91	13.41	OSF1.50	13860.00	11350.00				MinPts	
	1501.38	165.25	1388.99	1336.13	14.14	OSF1.50	14250.00	11350.00				MinPt-SF	
	1408.27	166.51	1295.13	1241.77	13.14	OSF1.50	15627.80	11350.00				MinPt-CtCt	
	1408.33	166.66	1295.08	1241.66	13.12	OSF1.50	15640.00	11350.00				MinPt-EOU	
	1408.44	166.79	1295.11	1241.64	13.11	OSF1.50	15650.00	11350.00				MinPt-ADP	
	1415.05	168.58	1300.55	1246.47	13.02	OSF1.50	15780.00	11350.00				MinPt-SF	
	1428.50	170.00	1313.07	1258.49	13.03	OSF1.50	15900.00	11350.00				MinPt-SF	
	1452.60	171.91	1335.93	1280.68	13.09	OSF1.50	16040.00	11350.00				MinPt-SF	
	5804.79	172.35	5688.02	5632.44	51.28	OSF1.50	21698.66	11350.00				TD	
30-025-40667 - Cimarex Triste Draw 36 State 5H Gyro+MWD Offt to 13910ft MD (DefinitiveSurvey)													Pass
	3697.10	32.81	3695.07	3664.29	75534.81	MAS = 10.00 (m)	0.00	0.00				Surface	
	3696.97	32.81	3694.86	3664.17	28055.59	MAS = 10.00 (m)	23.00	23.00				WRP	
	3688.96	32.81	3678.86	3656.15	454.45	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	3688.86	32.81	3678.61	3656.05	434.19	MAS = 10.00 (m)	1150.00	1150.00				MinPts	
	3688.87	32.81	3677.12	3656.06	369.29	MAS = 10.00 (m)	1380.00	1380.00				MinPts	
	3689.12	32.81	3676.84	3656.31	350.64	MAS = 10.00 (m)	1460.00	1460.00				MinPt-EOU	
	3689.17	32.81	3676.09	3656.36	325.66	MAS = 10.00 (m)	1580.00	1580.00				MinPts	
	3689.25	32.81	3674.33	3656.44	280.33	MAS = 10.00 (m)	1850.00	1850.00				MinPts	
	3689.49	32.81	3673.41	3656.68	257.62	MAS = 10.00 (m)	2020.00	2020.00				MinPts	
	3689.56	32.81	3673.35	3656.75	255.34	MAS = 10.00 (m)	2040.00	2040.00				MinPt-EOU	
	1410.68	318.61	1197.73	1092.07	6.67	OSF1.50	9645.40	9417.22				MinPt-CtCt	
	1411.10	320.04	1197.20	1091.06	6.64	OSF1.50	9680.00	9450.73				MinPt-EOU	
	1411.73	320.79	1197.34	1090.94	6.63	OSF1.50	9700.00	9470.09				MinPt-ADP	
	1419.13	324.03	1202.45	1095.10	6.50	OSF1.50	9800.00	9566.90				MinPt-SF	
	2088.07	182.77	1962.40	1905.30	18.19	OSF1.50	12190.00	11350.00				MinPt-ADP	
	2085.14	180.51	1961.03	1904.63	18.39	OSF1.50	12290.00	11350.00				MinPt-ADP	
	2084.61	179.97	1960.86	1904.64	18.44	OSF1.50	12310.00	11350.00				MinPt-ADP	
	2081.11	176.68	1959.56	1904.43	18.77	OSF1.50	12450.00	11350.00				MinPt-ADP	
	2080.36	175.88	1959.33	1904.48	18.85	OSF1.50	12490.00	11350.00				MinPt-EOU	
	2077.32	171.78	1959.03	1905.54	19.31	OSF1.50	12630.00	11350.00				MinPt-ADP	
	2070.31	164.37	1956.97	1905.94	20.17	OSF1.50	12960.00	11350.00				MinPt-ADP	
	2067.44	161.38	1956.12	1906.07	20.54	OSF1.50	13120.00	11350.00	</				

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
2004.39	148.86	1901.31	1855.51	21.76		OSF1.50	15720.00	11350.00				MinPt-EOU	
2004.84	149.45	1901.36	1855.39	21.67		OSF1.50	15740.00	11350.00				MinPt-ADP	
2123.47	164.98	2009.85	1958.48	20.56		OSF1.50	16370.00	11350.00				MinPt-SF	
6040.32	184.69	5915.51	5855.64	50.40		OSF1.50	21698.66	11350.00				TD	
30-025-42082 - Cimarex Triste Draw 25 Federal Com 10H MWD Off to 14126ft (DefinitiveSurvey)													Pass
4662.31	32.81	4660.33	4629.50	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
4662.30	32.81	4660.23	4629.49	51316.39		MAS = 10.00 (m)	23.00	23.00				WRP	
4653.20	32.81	4640.73	4620.39	443.38		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4659.94	32.81	4634.34	4618.13	313.42		MAS = 10.00 (m)	1550.00	1550.00				MinPts	
4652.26	32.81	4632.36	4619.45	256.30		MAS = 10.00 (m)	1910.00	1910.00				MinPt-EOU	
5719.19	164.57	5608.94	5554.62	52.63		OSF1.50	10360.00	10116.40				MinPt-SF	
1536.11	168.39	1423.35	1367.72	13.79		OSF1.50	17475.67	11350.00				MinPt-CtCt	
1536.63	169.84	1422.90	1366.79	13.68		OSF1.50	17530.00	11350.00				MinPt-EOU	
1537.08	170.37	1423.00	1366.71	13.64		OSF1.50	17550.00	11350.00				MinPt-ADP	
1548.05	175.31	1430.67	1372.74	13.35		OSF1.50	17790.00	11350.00				MinPt-EOU	
1549.24	176.73	1430.92	1372.61	13.25		OSF1.50	17850.00	11350.00				MinPt-ADP	
1552.89	181.33	1431.50	1371.56	12.94		OSF1.50	18070.00	11350.00				MinPt-CtCt	
1538.76	204.03	1402.24	1334.73	11.39		OSF1.50	19010.00	11350.00				MinPt-CtCt	
1539.47	206.23	1401.48	1333.24	11.27		OSF1.50	19090.00	11350.00				MinPt-EOU	
1540.62	207.58	1401.73	1333.04	11.20		OSF1.50	19140.00	11350.00				MinPt-ADP	
1548.12	228.41	1395.35	1319.71	10.22		OSF1.50	19940.00	11350.00				MinPt-CtCt	
1549.47	232.31	1394.10	1317.16	10.06		OSF1.50	20080.00	11350.00				MinPt-EOU	
1551.11	234.26	1394.44	1316.85	9.99		OSF1.50	20150.00	11350.00				MinPt-ADP	
1555.01	247.35	1389.61	1307.66	9.48		OSF1.50	20630.00	11350.00				MinPt-CtCt	
1541.09	271.26	1359.75	1269.83	8.56		OSF1.50	21470.00	11350.00				MinPt-CtCt	
1541.41	272.18	1359.46	1269.23	8.53		OSF1.50	21500.00	11350.00				MinPt-EOU	
1541.65	272.47	1359.50	1269.18	8.53		OSF1.50	21510.00	11350.00				MinPt-ADP	
1550.60	275.66	1366.33	1274.94	8.48		OSF1.50	21640.00	11350.00				MinPt-SF	
1558.18	276.72	1373.20	1281.46	8.48		OSF1.50	21698.66	11350.00				TD	
30-025-42102 - Cimarex Triste Draw 25 Federal Com 8H MWD Off to 14100ft (DefinitiveSurvey)													Pass
4662.31	32.81	4660.33	4629.50	N/A		MAS = 10.00 (m)	0.00	0.00				MinPts	
4662.32	32.81	4660.28	4629.51	83295.96		MAS = 10.00 (m)	23.00	23.00				WRP	
4662.48	32.81	4660.21	4629.67	16180.52		MAS = 10.00 (m)	80.00	80.00				MinPt-EOU	
4662.78	32.81	4660.21	4629.97	7894.54		MAS = 10.00 (m)	130.00	130.00				MinPt-EOU	
4663.62	32.81	4660.26	4630.81	3442.13		MAS = 10.00 (m)	220.00	220.00				MinPt-EOU	
4664.30	32.81	4660.27	4631.49	2279.08		MAS = 10.00 (m)	290.00	290.00				MinPt-EOU	
4668.61	32.81	4658.86	4635.80	600.91		MAS = 10.00 (m)	840.00	840.00				MinPts	
4668.66	32.81	4656.92	4635.85	478.14		MAS = 10.00 (m)	1040.00	1040.00				MinPts	
4668.73	32.81	4656.66	4635.92	457.75		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4673.03	32.81	4651.85	4640.22	240.57		MAS = 10.00 (m)	2020.00	2020.00				MinPt-EOU	
5715.88	166.77	5604.16	5549.11	51.90		OSF1.50	10300.00	10056.71				MinPt-SF	
1603.67	175.00	1486.51	1428.67	13.85		OSF1.50	17530.00	11350.00				MinPt-CtCt	
1603.99	175.96	1486.19	1428.03	13.78		OSF1.50	17570.00	11350.00				MinPt-EOU	
1604.61	176.65	1486.35	1427.97	13.73		OSF1.50	17600.00	11350.00				MinPt-ADP	
1591.71	196.31	1460.34	1395.40	12.24		OSF1.50	18480.00	11350.00				MinPt-CtCt	
1573.53	230.10	1419.63	1343.43	10.31		OSF1.50	19800.00	11350.00				MinPt-CtCt	
1574.38	232.76	1418.71	1341.62	10.20		OSF1.50	19900.00	11350.00				MinPt-EOU	
1575.45	234.08	1418.90	1341.37	10.15		OSF1.50	19950.00	11350.00				MinPt-ADP	
1666.90	252.81	1397.86	1314.09	9.34		OSF1.50	20640.00	11350.00				MinPt-CtCt	
1550.85	276.40	1366.08	1274.44	8.45		OSF1.50	21467.45	11350.00				MinPt-CtCt	
1551.01	277.00	1365.84	1274.01	8.44		OSF1.50	21490.00	11350.00				MinPt-EOU	
1551.43	277.50	1365.93	1273.93	8.42		OSF1.50	21510.00	11350.00				MinPt-ADP	
1558.33	279.78	1371.31	1278.55	8.39		OSF1.50	21620.00	11350.00				MinPt-SF	
1567.99	280.91	1380.21	1287.08	8.41		OSF1.50	21698.66	11350.00				TD	
Cimarex Triste Draw 25 Federal #3H Pilot Gyro-MWD Off to 10322.56ft MD (DefinitiveSurvey)													Pass
4412.93	32.81	4410.95	4380.12	1309177.82		MAS = 10.00 (m)	0.00	0.00				MinPts	
4413.00	32.81	4410.99	4380.19	119308.80		MAS = 10.00 (m)	23.00	23.00				WRP	
4421.94	32.81	4415.47	4389.14	962.68		MAS = 10.00 (m)	670.00	670.00				MinPt-EOU	
4424.45	32.81	4414.83	4391.64	578.99		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4424.20	32.81	4412.82	4391.39	459.98		MAS = 10.00 (m)	1360.00	1360.00				MinPts	
4423.76	32.81	4407.99	4390.97	315.14		MAS = 10.00 (m)	2000.00	2000.00				MinPts	
4423.91	32.81	4407.86	4391.10	309.47		MAS = 10.00 (m)	2040.00	2040.00				MinPt-EOU	
5677.14	129.28	5590.36	5547.85	66.76		OSF1.50	10400.00	10156.25				MinPt-SF	
5683.70	130.16	5596.35	5553.54	66.36		OSF1.50	10550.00	10306.03				MinPt-SF	
1638.44	172.32	1519.99	1466.12	15.11		OSF1.50	16865.09	11350.00				MinPt-CtCt	
1638.81	173.57	1519.53	1465.24	14.99		OSF1.50	16900.00	11350.00				MinPt-EOU	
1639.36	174.28	1519.61	1465.08	14.93		OSF1.50	16920.00	11350.00				MinPt-ADP	
1687.73	184.65	1561.16	1503.08	14.44		OSF1.50	17270.00	11350.00				MinPt-SF	
5103.72	177.98	4983.61	4925.74	44.06		OSF1.50	21698.66	11350.00				TD	
30-025-43998 - Cimarex Triste Draw 25 Federal 12H MWD Off to 14078ft (DefinitiveSurvey)													Pass
4573.80	32.81	4571.77	4541.00	86144.38		MAS = 10.00 (m)	0.00	0.00				Surface	
4573.77	32.81	4571.64	4540.96	30650.78		MAS = 10.00 (m)	23.00	23.00				WRP	
4562.72	32.81	4550.37	4529.92	439.52		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4560.22	32.81	4545.25	4527.41	345.01		MAS = 10.00 (m)	1400.00	1400.00				MinPts	
4562.39	32.81	4544.21	4529.58	277.77		MAS = 10.00 (m)	1750.00	1750.00				MinPt-EOU	
5039.14	86.79	4980.76	4952.36	88.72		OSF1.50	5430.00	5336.11				MinPt-ADP	
5818.92	163.44	5709.43	5655.49	53.92		OSF1.50	10300.00	10056.71				MinPt-SF	
1668.98	173.67	1552.67	1495.28	14.53		OSF1.50	17580.00	11350.00				MinPt-CtCt	
1669.48	175.21	1552.17	1494.27	14.40		OSF1.50	17640.00	11350.00				MinPt-EOU	
1670.08	175.97	1552.27	1494.12	14.35		OSF1.50	17670.00	11350.00				MinPt-ADP	
1675.86	180.88	1554.77	1494.98	14.00		OSF1.50	17920.00	11350.00				MinPt-SF	
1676.90	182.14	1554.97	1494.76	13.91		OSF1.50	17970.00	11350.00				MinPt-EOU	
1678.39	183.25	1555.72	1495.14	13.84		OSF1.50	18020.00	11350.00				MinPt-SF	
1676.60	190.48	1549.11	1486.12	13.30		OSF1.50	18370.00	11350.00				MinPt-CtCt	
1677.24	192.58	1548.35	1484.66	13.15		OSF1.50	18450.00	11350.00				MinPt-EOU	
1674.86	199.48	1541.39	1475.40	12.68		OSF1.50	18760.00	11350.00				MinPt-CtCt</	

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
1666.00	264.77	1490.99	1403.23	9.50		OSF1.50	21250.00	11350.00				MinPt-ADP	
1673.44	271.74	1491.78	1401.70	9.28		OSF1.50	21500.00	11350.00				MinPt-EOU	
1673.91	272.33	1491.86	1401.59	9.26		OSF1.50	21520.00	11350.00				MinPt-ADP	
1686.28	276.22	1501.64	1410.06	9.20		OSF1.50	21680.00	11350.00				MinPt-SF	
1688.71	276.58	1503.82	1412.13	9.20		OSF1.50	21698.66	11350.00				TD	
30-025-42198 - Cimarex Triste Draw 25 Federal Com 9H MWD Off to 13793ft (DefinitiveSurvey)													Pass
4662.31	32.81	4660.33	4629.50	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
4662.29	32.81	4660.20	4629.48	44663.78		MAS = 10.00 (m)	23.00	23.00				WRP	
4659.58	32.81	4652.75	4626.75	963.18		MAS = 10.00 (m)	550.00	550.00				MinPts	
4651.13	32.81	4649.01	4628.32	459.49		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4651.13	32.81	4649.03	4628.32	450.78		MAS = 10.00 (m)	1110.00	1110.00				MinPts	
4652.15	32.81	4640.47	4629.34	233.98		MAS = 10.00 (m)	2060.00	2060.00				MinPts	
4662.36	32.81	4640.11	4629.55	227.50		MAS = 10.00 (m)	2120.00	2119.96				MinPt-EOU	
5681.64	160.42	5574.15	5521.22	53.65		OSF1.50	10000.00	9760.95				MinPt-SF	
1877.31	168.36	1764.57	1708.95	16.86		OSF1.50	17460.00	11350.00				MinPt-CtCt	
1877.77	169.80	1764.07	1707.97	16.72		OSF1.50	17520.00	11350.00				MinPt-EOU	
1878.35	170.53	1764.16	1707.82	16.66		OSF1.50	17550.00	11350.00				MinPt-ADP	
1846.02	204.31	1709.32	1641.72	13.64		OSF1.50	18997.55	11350.00				MinPt-CtCt	
1847.79	208.54	1708.26	1639.25	13.38		OSF1.50	19160.00	11350.00				MinPt-EOU	
1849.54	210.63	1708.62	1638.91	13.26		OSF1.50	19240.00	11350.00				MinPt-ADP	
1853.18	215.53	1708.99	1637.64	12.98		OSF1.50	19430.00	11350.00				MinPt-EOU	
1855.25	218.93	1708.79	1636.32	12.79		OSF1.50	19560.00	11350.00				MinPt-EOU	
1856.83	220.79	1709.14	1636.05	12.69		OSF1.50	19630.00	11350.00				MinPt-ADP	
1860.27	228.25	1707.60	1632.01	12.30		OSF1.50	19910.00	11350.00				MinPt-EOU	
1866.99	239.78	1706.64	1627.21	11.74		OSF1.50	20330.00	11350.00				MinPt-EOU	
1868.38	241.43	1706.93	1626.96	11.67		OSF1.50	20390.00	11350.00				MinPt-ADP	
1873.84	253.17	1704.56	1620.67	11.16		OSF1.50	20810.00	11350.00				MinPt-EOU	
1875.22	254.83	1704.83	1620.39	11.09		OSF1.50	20870.00	11350.00				MinPt-ADP	
1878.96	258.79	1705.93	1620.17	10.95		OSF1.50	21010.00	11350.00				MinPt-ADP	
1898.37	273.29	1715.68	1625.08	10.47		OSF1.50	21520.00	11350.00				MinPt-ADP	
1911.67	277.18	1726.39	1634.50	10.39		OSF1.50	21698.66	11350.00				MinPt-SF	
30-025-43997 - Cimarex Triste Draw 25 Federal 11H MWD Off to 13774ft (DefinitiveSurvey)													Pass
4662.31	32.81	4660.33	4629.50	7097393.40		MAS = 10.00 (m)	0.00	0.00				MinPts	
4662.32	32.81	4660.28	4629.52	74864.79		MAS = 10.00 (m)	23.00	23.00				WRP	
4664.90	32.81	4654.77	4632.09	572.46		MAS = 10.00 (m)	900.00	900.00				MinPts	
4664.94	32.81	4653.52	4632.13	493.85		MAS = 10.00 (m)	1030.00	1030.00				MinPts	
4664.97	32.81	4652.97	4632.16	465.48		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4666.64	32.81	4650.84	4633.83	332.26		MAS = 10.00 (m)	1510.00	1510.00				MinPt-EOU	
4668.03	32.81	4650.64	4635.22	298.42		MAS = 10.00 (m)	1670.00	1670.00				MinPt-EOU	
5701.15	157.63	5595.53	5543.52	54.80		OSF1.50	10000.00	9760.95				MinPt-SF	
1869.05	172.54	1753.52	1696.51	16.38		OSF1.50	17676.74	11350.00				MinPt-CtCt	
1869.93	175.44	1752.47	1694.49	16.11		OSF1.50	17800.00	11350.00				MinPt-EOU	
1870.94	176.65	1752.68	1694.29	16.01		OSF1.50	17850.00	11350.00				MinPt-ADP	
1869.39	185.07	1745.51	1694.32	15.26		OSF1.50	18240.00	11350.00				MinPt-CtCt	
1870.09	187.15	1744.82	1682.93	15.10		OSF1.50	18320.00	11350.00				MinPt-EOU	
1870.37	189.33	1743.65	1681.04	14.92		OSF1.50	18420.00	11350.00				MinPt-CtCt	
1872.14	195.84	1741.08	1676.30	14.44		OSF1.50	18680.00	11350.00				MinPt-EOU	
1874.03	198.13	1741.44	1675.90	14.28		OSF1.50	18770.00	11350.00				MinPt-ADP	
1876.71	200.74	1742.39	1675.98	14.12		OSF1.50	18880.00	11350.00				MinPts	
1872.16	206.63	1733.91	1665.53	13.68		OSF1.50	19120.00	11350.00				MinPt-CtCt	
1873.26	209.86	1732.85	1663.40	13.48		OSF1.50	19240.00	11350.00				MinPt-EOU	
1874.58	211.46	1733.11	1663.12	13.38		OSF1.50	19300.00	11350.00				MinPt-ADP	
1883.63	224.96	1733.16	1658.67	12.63		OSF1.50	19820.00	11350.00				MinPt-CtCt	
1884.38	227.21	1732.41	1657.17	12.51		OSF1.50	19900.00	11350.00				MinPt-EOU	
1885.30	228.33	1732.58	1656.97	12.46		OSF1.50	19940.00	11350.00				MinPt-ADP	
1886.00	232.79	1730.30	1653.20	12.22		OSF1.50	20110.00	11350.00				MinPt-CtCt	
1887.17	236.44	1729.04	1650.73	12.04		OSF1.50	20240.00	11350.00				MinPt-EOU	
1888.76	238.38	1729.34	1650.38	11.95		OSF1.50	20310.00	11350.00				MinPt-ADP	
1895.64	244.97	1731.83	1650.67	11.67		OSF1.50	20550.00	11350.00				MinPt-EOU	
1898.81	251.10	1730.91	1647.71	11.40		OSF1.50	20770.00	11350.00				MinPt-EOU	
1900.44	253.07	1731.23	1647.37	11.32		OSF1.50	20840.00	11350.00				MinPt-ADP	
1905.41	261.55	1730.54	1643.86	10.98		OSF1.50	21140.00	11350.00				MinPt-EOU	
1908.17	264.68	1731.22	1643.49	10.87		OSF1.50	21250.00	11350.00				MinPt-ADP	
1935.53	276.67	1750.58	1658.86	10.54		OSF1.50	21698.66	11350.00				MinPt-SF	
30-025-44001 - Cimarex Triste Draw 25 Federal 13H MWD to 13778ft MD TD (Surcon Corr) (DefinitiveSurvey)													Pass
4574.07	32.81	4572.01	4541.26	53179.20		MAS = 10.00 (m)	0.00	0.00				Surface	
4573.97	32.81	4571.79	4541.17	22353.08		MAS = 10.00 (m)	23.00	23.00				WRP	
4563.39	32.81	4550.95	4530.58	436.23		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4560.09	32.81	4544.63	4527.29	332.70		MAS = 10.00 (m)	1440.00	1440.00				MinPts	
4560.45	32.81	4544.29	4527.64	316.35		MAS = 10.00 (m)	1530.00	1530.00				MinPt-EOU	
5777.18	156.57	5672.26	5620.61	55.91		OSF1.50	9899.39	9663.13				MinPt-SF	
2030.20	179.99	1909.70	1850.21	17.05		OSF1.50	17840.00	11350.00				MinPt-CtCt	
2020.41	194.27	1890.40	1826.14	15.71		OSF1.50	18490.00	11350.00				MinPt-CtCt	
2010.21	211.15	1868.94	1799.06	14.37		OSF1.50	19199.04	11350.00				MinPt-CtCt	
2011.54	215.57	1867.33	1795.97	14.08		OSF1.50	19370.00	11350.00				MinPt-EOU	
2012.85	217.15	1867.50	1795.71	13.99		OSF1.50	19430.00	11350.00				MinPt-ADP	
2016.27	223.19	1866.98	1793.08	13.63		OSF1.50	19680.00	11350.00				MinPt-CtCt	
2017.19	225.91	1866.08	1791.27	13.47		OSF1.50	19780.00	11350.00				MinPt-EOU	
2019.84	230.04	1865.99	1789.81	13.25		OSF1.50	19940.00	11350.00				MinPt-EOU	
2023.06	234.46	1866.26	1788.60	13.02		OSF1.50	20110.00	11350.00				MinPt-EOU	
2024.44	236.10	1866.54	1788.35	12.93		OSF1.50	20170.00	11350.00				MinPt-ADP	
2027.45	239.47	1867.30	1787.98	12.77		OSF1.50	20300.00	11350.00				MinPt-EOU	
2029.03	241.38	1867.62	1787.66	12.68		OSF1.50	20370.00	11350.00				MinPt-ADP	
2033.19	244.62	1869.61	1788.57	12.54		OSF1.50	20490.00	11350.00				MinPt-SF	
2033.02	247.12	1867.78	1785.91	12.41		OSF1.50	20590.00	11350.00				MinPt-CtCt	
2035.24													

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
30-025-47632 - WILD SALSA FED COM 224H - MWD to 22026ft - A (DefinitiveSurvey)													Pass
	8736.45	32.81	8734.43	8703.68	111481.87	MAS = 10.00 (m)	0.00	0.00					MinPts
	8736.53	32.81	8734.41	8703.72	62070.76	MAS = 10.00 (m)		23.00					WRP
	8736.25	32.81	8730.63	8705.44	1550.68	MAS = 10.00 (m)	620.00	620.00					MinPts
	8737.56	32.81	8725.26	8704.75	845.89	MAS = 10.00 (m)	1090.00	1090.00					MinPt-EOU
	8737.40	32.81	8722.07	8704.59	643.59	MAS = 10.00 (m)	1420.00	1420.00					MinPts
	8738.22	32.81	8721.04	8705.41	566.66	MAS = 10.00 (m)	1640.00	1640.00					MinPt-EOU
	8754.68	35.24	8730.60	8719.43	392.11	OSF1.50	2170.00	2169.90					MinPts
	8911.91	51.99	8876.65	8859.92	266.07	OSF1.50	3290.00	3264.29					MinPt-ADP
	10149.89	171.97	10034.70	9977.92	89.35	OSF1.50	10560.00	10316.03					MinPts
	10149.66	172.09	10034.39	9977.56	89.29	OSF1.50	10700.00	10456.02					MinPt-CtCt
	10149.66	172.10	10034.39	9977.56	89.29	OSF1.50	10710.00	10466.02					MinPts
	2187.64	283.82	1997.93	1903.82	11.62	OSF1.50	21428.98	11350.00					MinPt-CtCt
	2188.07	285.23	1997.41	1902.84	11.56	OSF1.50	21480.00	11350.00					MinPt-EOU
	2188.70	286.03	1997.51	1902.67	11.53	OSF1.50	21510.00	11350.00					MinPt-ADP
	2195.78	291.02	2001.26	1904.76	11.37	OSF1.50	21698.66	11350.00					MinPt-SF
Cimarex Triste Draw 25 Federal #15H Rev0 RM 22Mar17 (NonDefinitivePlan)													Pass
	4575.19	32.81	4573.19	4542.38	231259.32	MAS = 10.00 (m)	0.00	0.00					Surface
	4575.19	32.81	4573.14	4542.38	64520.63	MAS = 10.00 (m)	23.00	23.00					WRP
	4575.19	32.81	4564.54	4542.38	527.14	MAS = 10.00 (m)	1090.00	1090.00					MinPt-EOU
	4575.19	32.81	4557.15	4542.38	280.80	MAS = 10.00 (m)	2000.00	2000.00					MinPts
	4575.36	32.81	4556.99	4542.56	275.32	MAS = 10.00 (m)	2040.00	2040.00					MinPt-EOU
	6036.35	140.56	5941.63	5895.79	65.81	OSF1.50	10360.00	10116.40					MinPt-SF
	2233.94	277.82	2045.23	1956.11	12.48	OSF1.50	20650.00	11350.00					MinPt-CtCt
	2234.25	306.80	2026.18	1927.44	11.26	OSF1.50	21510.00	11350.00					MinPt-EOU
	2234.67	307.31	2026.26	1927.36	11.24	OSF1.50	21530.00	11350.00					MinPt-ADP
	2245.32	310.83	2034.42	1934.49	11.18	OSF1.50	21698.66	11350.00					MinPt-SF
Cimarex Triste Draw 25 Federal #14H Rev1 RM 09May19 (DefinitivePlan)													Pass
	4516.72	32.81	4514.72	4483.91	241891.85	MAS = 10.00 (m)	0.00	0.00					Surface
	4516.72	32.81	4514.67	4483.91	64709.92	MAS = 10.00 (m)	23.00	23.00					WRP
	4516.72	32.81	4506.06	4483.91	520.04	MAS = 10.00 (m)	1090.00	1090.00					MinPt-EOU
	4516.72	32.81	4498.67	4483.91	277.11	MAS = 10.00 (m)	2000.00	2000.00					MinPts
	4516.89	32.81	4498.51	4484.08	271.70	MAS = 10.00 (m)	2040.00	2040.00					MinPt-EOU
	5903.76	134.40	5812.91	5769.37	67.75	OSF1.50	10360.00	10116.40					MinPt-SF
	2235.16	276.12	2047.04	1959.04	12.63	OSF1.50	21471.59	11350.00					MinPt-CtCt
	2235.49	277.23	2046.60	1958.26	12.58	OSF1.50	21510.00	11350.00					MinPt-EOU
	2235.92	277.78	2046.65	1958.15	12.56	OSF1.50	21530.00	11350.00					MinPt-ADP
	2246.66	281.81	2054.57	1964.86	12.45	OSF1.50	21698.66	11350.00					MinPt-SF
30-025-47637 - WILD SALSA FED COM 323H - MWD to 23192ft - A (DefinitiveSurvey)													Pass
	8829.31	32.81	8827.28	8796.51	176712.53	MAS = 10.00 (m)	0.00	0.00					MinPts
	8829.39	32.81	8827.31	8796.58	86943.39	MAS = 10.00 (m)	23.00	23.00					WRP
	8832.25	32.81	8819.45	8799.44	815.64	MAS = 10.00 (m)	1090.00	1090.00					MinPt-EOU
	8825.64	32.81	8804.02	8792.93	444.42	MAS = 10.00 (m)	2020.00	2020.00					MinPts
	8825.73	32.81	8803.67	8792.92	438.97	MAS = 10.00 (m)	2050.00	2050.00					MinPt-EOU
	8826.62	33.19	8803.91	8793.43	421.21	OSF1.50	2110.00	2109.97					MinPt-EOU
	8826.80	33.39	8803.95	8793.40	418.47	OSF1.50	2120.00	2119.96					MinPt-ADP
	8850.17	40.62	8822.50	8809.55	341.52	OSF1.50	2480.00	2477.76					MinPts
	9740.35	130.51	9652.80	9609.83	113.33	OSF1.50	7830.00	7659.66					MinPt-ADP
	2359.36	284.80	2168.99	2074.56	12.48	OSF1.50	21166.29	11350.00					MinPt-CtCt
	2359.60	285.63	2168.68	2073.97	12.45	OSF1.50	21200.00	11350.00					MinPt-EOU
	2359.97	286.11	2168.73	2073.87	12.43	OSF1.50	21220.00	11350.00					MinPt-ADP
	2380.09	291.23	2185.44	2088.86	12.31	OSF1.50	21480.00	11350.00					MinPt-SF
	2391.22	297.82	2192.17	2093.39	12.10	OSF1.50	21698.66	11350.00					MinPts
Cimarex Triste Draw 25 Federal #14H Rev0 RM 22Mar17 (NonDefinitivePlan)													Pass
	4574.64	32.81	4572.64	4541.83	233858.93	MAS = 10.00 (m)	0.00	0.00					Surface
	4574.64	32.81	4572.59	4541.83	64715.68	MAS = 10.00 (m)	23.00	23.00					WRP
	4574.64	32.81	4563.98	4541.83	527.09	MAS = 10.00 (m)	1090.00	1090.00					MinPt-EOU
	4574.64	32.81	4556.59	4541.83	280.77	MAS = 10.00 (m)	2000.00	2000.00					MinPts
	4574.81	32.81	4556.44	4542.00	275.29	MAS = 10.00 (m)	2040.00	2040.00					MinPt-EOU
	6073.34	138.27	5980.01	5935.07	67.52	OSF1.50	10300.00	10056.71					MinPt-SF
	2365.72	294.14	2165.82	2071.58	12.49	OSF1.50	21472.23	11350.00					MinPt-CtCt
	2366.02	295.09	2165.48	2070.93	12.46	OSF1.50	21510.00	11350.00					MinPt-EOU
	2366.43	295.57	2165.52	2070.86	12.44	OSF1.50	21530.00	11350.00					MinPt-ADP
	2376.53	299.06	2173.18	2077.48	12.35	OSF1.50	21698.66	11350.00					MinPt-SF
30-025-47639 - WILD SALSA FED COM 093H - MWD to 20738ft - A (DefinitiveSurvey)													Pass
	8823.84	32.81	8821.83	8791.03	311778.39	MAS = 10.00 (m)	0.00	0.00					MinPts
	8823.93	32.81	8821.88	8791.12	120051.67	MAS = 10.00 (m)	23.00	23.00					WRP
	8816.53	32.81	8801.41	8783.72	659.87	MAS = 10.00 (m)	1400.00	1400.00					MinPts
	8817.24	32.81	8800.78	8784.43	599.77	MAS = 10.00 (m)	1570.00	1570.00					MinPt-EOU
	8820.58	32.81	8801.73	8787.77	516.13	MAS = 10.00 (m)	1830.00	1830.00					MinPt-EOU
	8827.01	40.82	8799.21	8786.19	338.94	OSF1.50	2280.00	2279.55					MinPt-CtCt
	8827.07	40.99	8799.16	8786.08	337.42	OSF1.50	2300.00	2299.45					MinPt-EOU
	8827.16	41.08	8799.18	8786.07	336.66	OSF1.50	2310.00	2309.40					MinPt-ADP
	9231.45	78.39	9178.60	9153.06	180.66	OSF1.50	4700.00	4629.37					MinPts
	9412.01	95.26	9347.96	9316.75	150.74	OSF1.50	5660.00	5558.79					MinPts
	9795.56	133.41	9706.09	9662.15	111.47	OSF1.50	7740.00	7572.53					MinPt-ADP
	10272.34	168.27	10159.62	10104.07	92.44	OSF1.50	10370.00	10126.36					MinPt-SF
	2725.04	274.07	2541.83	2450.97	14.99	OSF1.50	21698.66	11350.00					MinPts
30-025-42081 - Cimarex Triste Draw 25 Federal 7H MWD Off to 14577ft (DefinitiveSurvey)													Pass
	4707.25	32.81	4705.30	4674.49	611171.66	MAS = 10.00 (m)	0.00	0.00					MinPts
	4707.35	32.81	4705.33	4674.55	100861.71	MAS = 10.00 (m)	23.00	23.00					WRP
	4709.04	32.81	4705.68	4676.23	3400.38	MAS = 10.00 (m)	240.00	240.00					MinPt-EOU
	4711.11	32.81	4702.68	4678.30	729.54	MAS = 10.00 (m)	950.00	950.00					MinPts
	4711.37	32.81	4701.95	4678.56	632.69	MAS = 10.00 (m)	1090.00	1090.00					MinPt-EOU
	4715.66	32.81	4700.07	4682.85	340.99	MAS = 10.00 (m)	2010.00	2010.00					MinPt-EOU
	5981.68	125.11	5896.99	5856.56	73.99	OSF1.50	10360.00	10116.40					MinPt-SF
	2806.39	185.50	2679.45	2620.89	23.88	OSF1.50	17340.00	11350.00					MinPt-CtCt
	2807.87	189.36	2678.36	2618.52									

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	2796.51	365.46	2549.39	2431.05	11.77	OSF 1.50	21698.66	11350.00					TD
30-025-47640 - WILD SALSA FED COM 404H - MWD to 23199ft - A (DefinitiveSurvey)													
	8833.97	32.81	8831.98	8801.16	914617.37	MAS = 10.00 (m)	0.00	0.00					Pass
	8834.09	32.81	8832.06	8801.28	178118.15	MAS = 10.00 (m)	23.00	23.00					MinPts
	8860.44	32.81	8846.57	8827.63	731.71	MAS = 10.00 (m)	1310.00	1310.00					WRP
	8867.78	32.81	8849.39	8834.97	533.22	MAS = 10.00 (m)	1760.00	1760.00					MinPt-EOU
	8868.39	32.81	8849.38	8835.59	513.96	MAS = 10.00 (m)	1820.00	1820.00					MinPt-EOU
	8865.83	33.09	8843.25	8832.81	424.45	OSF 1.50	2070.00	2069.99					MinPt-CtCt
	8865.99	33.28	8843.21	8832.70	421.78	OSF 1.50	2090.00	2089.99					MinPt-EOU
	8866.09	33.38	8843.24	8832.70	420.46	OSF 1.50	2100.00	2099.98					MinPt-ADP
	9157.59	60.13	9116.91	9057.46	235.29	OSF 1.50	3860.00	3816.13					MinPt-ADP
	10453.76	166.46	10342.25	10287.30	95.11	OSF 1.50	10300.00	10056.71					MinPt-ADP
	2887.87	287.93	2695.42	2599.95	15.12	OSF 1.50	21372.55	11350.00					MinPt-CtCt
	2888.26	289.02	2695.08	2599.24	15.06	OSF 1.50	21420.00	11350.00					MinPt-EOU
	2888.66	289.46	2695.18	2599.19	15.04	OSF 1.50	21440.00	11350.00					MinPt-ADP
	2906.22	294.50	2709.38	2611.72	14.87	OSF 1.50	21698.66	11350.00					MinPt-SF
30-025-47635 - WILD SALSA FED COM 094H - MWD to 20459ft - A (DefinitiveSurvey)													
	8740.15	32.81	8738.11	8707.34	133308.29	MAS = 10.00 (m)	0.00	0.00					Pass
	8740.17	32.81	8738.10	8707.36	96809.15	MAS = 10.00 (m)	10.00	10.00					MinPts
	8740.21	32.81	8738.11	8707.40	71170.02	MAS = 10.00 (m)	23.00	23.00					WRP
	8740.30	32.81	8738.11	8707.49	41209.18	MAS = 10.00 (m)	50.00	50.00					MinPt-EOU
	8740.85	32.81	8738.11	8708.04	11447.11	MAS = 10.00 (m)	150.00	150.00					MinPt-EOU
	8744.24	32.81	8738.83	8711.43	2550.54	MAS = 10.00 (m)	440.00	440.00					MinPt-EOU
	8748.73	32.81	8736.69	8715.93	868.78	MAS = 10.00 (m)	1090.00	1090.00					MinPt-EOU
	8750.50	32.81	8736.30	8717.69	651.02	MAS = 10.00 (m)	1440.00	1440.00					MinPt-EOU
	9825.27	114.25	9748.57	9711.03	130.83	OSF 1.50	7140.00	6991.64					MinPt-ADP
	10460.95	156.80	10355.88	10304.15	101.10	OSF 1.50	10370.00	10126.36					MinPt-SF
	3393.74	277.03	3208.56	3116.71	18.47	OSF 1.50	21698.66	11350.00					MinPts
Estacodo Fields #002 (Offset) Plugged SWD Blind Off-5206ft (DefinitiveSurvey)													
	5372.45	32.81	5369.92	5339.64	9672.06	MAS = 10.00 (m)	0.00	0.00					Pass
	5372.45	32.81	5367.51	5339.64	1811.37	MAS = 10.00 (m)	23.00	23.00					Surface
	5372.45	603.48	4969.54	4768.97	13.39	OSF 1.50	2000.00	2000.00					WRP
	5607.43	1606.12	4536.14	4001.31	5.24	OSF 1.50	5280.00	5190.89					MinPt-CtCt
	6316.35	380.36	6061.10	5925.99	25.22	OSF 1.50	16190.00	11350.00					MinPts
	6213.99	256.72	6041.14	5957.27	37.01	OSF 1.50	16820.00	11350.00					MinPt-ADP
	6175.32	195.78	6043.09	5979.54	48.54	OSF 1.50	17510.00	11350.00					MinPt-EOU
	6226.65	295.70	6027.81	5930.95	32.11	OSF 1.50	18310.00	11350.00					MinPt-CtCt
	6320.70	408.82	6046.47	5911.88	23.46	OSF 1.50	18860.00	11350.00					MinPt-EOU
	7460.65	937.05	6834.45	6523.61	11.99	OSF 1.50	21698.66	11350.00					MinPt-ADP
													MinPt-SF
H L Johnston L SR Pre-Ongard Well #001 (Offset) Plugged Oil Blind Off-5151ft (DefinitiveSurvey)													
	8309.90	32.81	8305.32	8277.09	3197.59	MAS = 10.00 (m)	0.00	0.00					Pass
	8309.90	32.81	8302.92	8277.09	1659.00	MAS = 10.00 (m)	23.00	23.00					Surface
	8309.90	609.60	7902.91	7700.30	20.50	OSF 1.50	2000.00	2000.00					WRP
	8751.97	1588.71	7692.29	7163.26	8.27	OSF 1.50	5200.00	5113.44					MinPt-CtCt
	8784.92	1126.19	8032.78	7658.73	11.74	OSF 1.50	14830.00	11350.00					MinPts
	6433.12	456.55	6127.10	5976.56	21.35	OSF 1.50	20814.15	11350.00					MinPt-SF
	6434.16	458.88	6126.59	5975.28	21.25	OSF 1.50	20930.00	11350.00					MinPt-CtCt
	6443.51	469.45	6128.90	5974.06	20.79	OSF 1.50	21180.00	11350.00					MinPt-EOU
	6493.64	512.60	6150.27	5981.04	19.17	OSF 1.50	21698.66	11350.00					MinPt-ADP
													MinPt-SF



**Coterra Triste Draw 36-25 Federal Com 301H Rev0 mdv 19Oct23 Proposal  
Geodetic Report**



**Report Date:** October 23, 2023 - 06:54 PM (UTC 0)  
**Client:** COTERRA  
**Field:** NM Lea County (NAD 83)  
**Structure / Slot:** Coterra Triste Draw 36-25 Fed Com E2W2 Pad / 301H  
**Well:** Triste Draw 36-25 Federal Com 301H  
**Borehole:** Triste Draw 36-25 Federal Com 301H  
**UBH / API#:** Unknown / Unknown  
**Survey Name:** Coterra Triste Draw 36-25 Federal Com 301H Rev0 mdv 19Oct23  
**Survey Date:** October 23, 2023  
**Tort / AHD / DDI / ERD Ratio:** 136.872' / 12349.230 ft / 6.509' / 1.088  
**Coordinate Reference System:** NAD83 New Mexico State Plane, Eastern Zone, US Feet  
**Location Lat / Long:** 32°15'26.730247N - 103°37'46.120157W  
**Location Grid N/E Y/X:** N 468007.760 RUS - E 758914.880 RUS  
**CRS Grid Convergence Angle:** 0.376°  
**Grid Scale Factor:** 0.99996331  
**Version / Patch:** 2023.1.0.1

**Def Plan**  
**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 359.590 (GRID North)  
**Vertical Section Slope:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** RKB  
**TVD Reference Elevation:** 3681.500 ft above MSL  
**Seabed / Ground Elevation:** 3658.500 ft above MSL  
**Magnetic Declination:** 6.243°  
**Total Gravity Field Strength:** 998.4375mgm (9.80665 Based)  
**Gravity Model:** G49M  
**Total Magnetic Field Strength:** 47455.129 nT  
**Magnetic Dip Angle:** 59.802°  
**Declination Date:** September 29, 2023  
**Magnetic Declination Model:** IHDGM 2023  
**North Reference:** Grid North  
**Grid Convergence Used:** 0.376°  
**Total Corr Mag North-Grid North:** 5.887°  
**Local Coord Referenced To:** Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)
SHL [1267' FSL, 2285' FWL]	0.00	0.00	233.27	0.00	-3,681.50	0.00	0.00	0.00	0.00	458,097.76	758,914.88	32.25742507	-103.62947782
Nudge, Build 2"/100ft	2,000.00	0.00	233.27	2,000.00	-1,681.50	0.00	0.00	0.00	0.00	458,097.76	758,914.88	32.25742507	-103.62947782
Hold	2,725.04	14.50	233.27	2,717.33	-964.17	-54.06	-54.56	-73.14	2.00	458,043.18	758,841.74	32.25727636	-103.62971556
Drop 2"/100ft	9,899.39	14.50	233.27	9,663.13	5,981.63	-1,118.12	-1,128.98	-1,512.86	0.00	456,968.82	757,402.08	32.25434915	-103.63436514
Hold	10,624.44	0.00	233.27	10,380.46	6,698.96	-1,172.18	-1,183.56	-1,586.00	2.00	456,914.25	757,328.94	32.25420043	-103.63463287
KOP, Build 10"/100ft	10,999.44	0.00	233.27	10,755.46	7,073.96	-1,172.18	-1,183.56	-1,586.00	0.00	456,914.25	757,328.94	32.25420043	-103.63463287
Build/Turn 5"/100ft	11,749.44	75.00	4.55	11,308.89	7,627.39	-749.11	-760.23	-1,552.31	10.00	457,337.56	757,362.63	32.25536338	-103.63451499
Landing Point	12,065.06	90.00	359.59	11,350.00	7,668.50	-437.46	-448.50	-1,541.28	5.00	457,849.27	757,373.66	32.25622000	-103.63447274
Turn 2"/100ft	15,260.06	90.00	359.59	11,350.00	7,668.50	2,757.54	2,746.41	-1,564.14	0.00	460,844.07	757,350.80	32.26500189	-103.63447940
Turn 2"/100ft	15,555.56	90.00	5.50	11,350.00	7,668.50	3,052.51	3,041.49	-1,551.03	2.00	461,139.13	757,363.91	32.26581270	-103.63443076
Hold	15,982.64	90.00	356.96	11,350.00	7,668.50	3,479.03	3,468.09	-1,541.87	2.00	461,565.71	757,373.07	32.26698507	-103.63439216
Triste Draw 36-25 Federal Com 301H LPP1	16,512.70	90.00	356.96	11,350.00	7,668.50	4,008.53	3,997.59	-1,570.00	0.00	462,095.00	757,344.94	32.26844041	-103.63447200
Hold	16,844.51	90.00	359.59	11,350.00	7,668.50	4,140.29	4,129.13	-1,573.96	2.00	462,226.73	757,340.98	32.26880258	-103.63446205
Triste Draw 36-25 Federal Com 301H LPP2	19,156.14	90.00	359.59	11,350.00	7,668.50	6,651.92	6,640.70	-1,591.74	0.00	464,738.20	757,323.20	32.27570612	-103.63448664
Triste Draw 36-25 Federal Com 301H BHL [100'FNL, 740'FWL]	21,698.66	90.00	359.59	11,350.00	7,668.50	9,194.44	9,183.16	-1,609.77	0.00	467,280.56	757,305.17	32.28269457	-103.63449139

**Survey Type:** Def Plan

**Survey Error Model:** ISCWSA0 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	10,364.300	1/100.000 '5 - 12.25 - 8.75 3.375 - 9.625 - 7				A001Mb_MWD		Triste Draw 36-25 Federal Com 301H / Coterra Triste
	1	10,364.300	19,513.279	1/100.000	8.75 - 6	7 - 4.5		A008Mb_MWD+FR1+MS		Triste Draw 36-25 Federal Com 301H / Coterra Triste

**EOU Geometry:**

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,190.500	17.500	13.375	
4,850.938	12.250	9.625	
12,202.500	8.750	7.000	
21,698.658	6.000	4.500	

# Geologic Prognosis



Well Information					Contact Information		
<b>Well Name:</b> Triste Draw 36-25 Fed Com 301H		<b>County:</b> Lea			<b>Jenny Blake</b>		
<b>API #:</b>		<b>State:</b> New Mexico			Office: (432) 571-7800		
<b>Dev/Exp:</b> Development		<b>Field:</b>			Cell: (281) 639-4419		
					Email: Jenny.Blake@coterra.com		
Surface Hole Information					<b>Staci Mueller</b>		
<b>Footages:</b>	<b>Section:</b>	<b>Township:</b>	<b>Range:</b>	<b>Direction</b>			
B3	36	23S	32E	S-N	Cell: (406) 794-2287		
					Email: Staci.Mueller@coterra.com		
Bottom Hole Information							
<b>Footages:</b>	<b>Section:</b>	<b>Township:</b>	<b>Range:</b>				
100' FNL / 740' FWL	25	23S	32E				
Target Information							
Harkey A		Landing TVD: <b>11,350'</b>		TD TVD: 11,350'			
Generated By: Jenny Blake		Date Generated: 6/26/2023					
Est. GL Elevation: 3650		Rig:					
Est. KB above GL: 23							
Est. KB Elevation: 3673							
Horizon	TVD top	TVD base	SSTVD top	Thickness	Lithology	Mineral Resource	Comments
Rustler	1238	1731	2629	493	Anhydrite	Useable Water	Hardline 100' FSL/100' FNL & 330' FWL/FEL
Top Salt/Salado	1731	5036	1360	3305	Halite	N/A	
Base Salt/Lamar	5036	5087	-1021	51	Limestone	N/A	
Top Delaware Sands/Bell Canyon	5087	5940	-1067	853	Sandstone	Natural gas, oil	
Cherry Canyon	5940	7318	-2053	1378	Sandstone	Natural gas, oil	
Brushy Canyon	7318	8633	-3645	1315	Sandstone	Natural gas, oil	
Basal Brushy Canyon	8633	8850	-4960	217	For Drilling Use		
Bone Spring Lime	8850	9033	-5177	183	Limestone	N/A	
Leonard/Avalon Sand	9033	9465	-5360	432	Shale	Natural gas, oil	
Avalon Shale	9465	10050	-5792	585	Shale	Natural gas, oil	
1st Bone Spring Sand	10050	10592	-6377	542	Sandstone	Natural gas, oil	
2nd Bone Spring Sand	10592	11115	-6919	523	Sandstone	Natural gas, oil	
3rd Bone Spring Carbonate	11115	11,350	-7442	235	Limestone & Shale	Natural gas, oil	
<b>3rd Carb/Harkey Target</b>	<b>11,350</b>	<b>---</b>	<b>-7677</b>	<b>---</b>			
Potential Geologic / Drilling Hazards: N/A							
Type Log: 30025408770000							
Offset Injection Wells:							
Open Hole Logs: n/a							
Service Provider:							
Ops Contact:							
Sales Contact:							
Log Type:							
Mudlogging Vendor: n/a							

Coterra: Well Control Plan



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# Well Control Plan

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## Warning Signs of a Kick

If a kick is ever suspected, perform flow check.

While Drilling:

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

While Tripping:

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

While Out of the Hole:

1. Flow
2. Pit gain

## Well Control Procedures with Diverter

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

If rotating head is installed:

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

## Coterra: Well Control Plan

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

If rotating head is not installed:

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

## Well Control Procedures

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

### *General Well Control*

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

### *Hard Shut-In*

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

## Coterra: Well Control Plan

### *Flow Check when on Bottom*

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

### *Shutting in while Drilling*

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

### *Flow Check while Tripping*

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

### *Shutting in while Tripping*

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

### *Shutting in while Out of Hole*

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

### *Information to Record while Shut-In*

1. Shut in drill pipe pressure every 5 minutes

## Coterra: Well Control Plan

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

### *H2S with Annular Diverter:*

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

### *H2S with BOP's:*

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

### *Procedure for Closing Blind Rams*

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

### *Procedure for Opening Blind Rams*

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

## Coterra: Well Control Plan

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

### *BOP Drills*

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

### *Choke Manifold Freeze Prevention*

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



Coterra Triste Draw 36-25 Federal Com 301H Rev0 mdv 19Oct23 Proposal



Geodetic Report

Def Plan

Report Date: October 23, 2023 - 06:45 PM (UTC 0)
Client: COTERRA
Field: NM Lea County (NAD 83)
Structure / Slot: Coterra Triste Draw 36-25 Fed Com E2W2 Pad / 301H
Well: Triste Draw 36-25 Federal Com 301H
Borehole: Triste Draw 36-25 Federal Com 301H
UBH / API#: Unknown / Unknown
Survey Name: Coterra Triste Draw 36-25 Federal Com 301H Rev0 mdv 19Oct23
Survey Date: October 20, 2023
Tort / AHD / DDI / ERD Ratio: 136.872' \* 12349.230 ft / 6.509 / 1.088
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: 32°15'26.7024"N, 103°37'46.12015"W
Location Grid NE YX: N 458097.760 RUS, E 758914.880 RUS
CRS Grid Convergence Angle: 0.376°
Grid Scale Factor: 0.99996331
Version / Patch: 2023.1.0.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.590 (GRID North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3681.500 ft above MSL
Seated / Ground Elevation: 3658.500 ft above MSL
Magnetic Declination: 6.243°
Total Gravity Field Strength: 998.4375mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47455.129 nT
Magnetic Dip Angle: 59.802°
Declination Date: September 29, 2023
Magnetic Declination Model: HDGM 2023
North Reference: Grid North
Grid Convergence Used: 0.376°
Total Corr Mag North->Grid North: 5.867"
Local Coord Referenced To: Well Head

Table with columns: Comments, MD (ft), Incl (°), Azim (°), TVD (ft), TVDSS (ft), VSEC (ft), NS (ft), EW (ft), DLS (ft/100ft), Northing (RUS), Easting (RUS), Latitude (°), Longitude (°). Rows include SHL [1267' FSL, 2285' FWL], Rustler, Top Salt/Salado, Nudge, Build 2'/100ft, Hold, Base Salt/Lamar, Top Delaware Sands/Bell Canyon, Chery Canyon, Brushy Canyon, Basal Brushy Canyon, Bone Spring Lime, Leonard/Avalon Sand.

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)
	9,300.00	14.50	233.27	9,082.83	5,401.33	-1,029.22	-1,039.22	-1,392.58	0.00	457,058.58	757,522.36	32.25459371	-103.63400419
	9,400.00	14.50	233.27	9,179.65	5,498.15	-1,044.06	-1,054.19	-1,412.64	0.00	457,043.61	757,502.29	32.25455291	-103.63406941
	9,500.00	14.50	233.27	9,276.46	5,594.96	-1,058.89	-1,069.17	-1,432.71	0.00	457,028.63	757,482.22	32.25451211	-103.63413464
	9,600.00	14.50	233.27	9,373.27	5,691.77	-1,073.72	-1,084.14	-1,452.78	0.00	457,013.66	757,462.16	32.25447131	-103.63419986
	9,694.74	14.50	233.27	9,465.00	5,783.50	-1,087.77	-1,098.33	-1,471.79	0.00	456,999.47	757,443.15	32.25443265	-103.63426166
	9,700.00	14.50	233.27	9,470.09	5,788.59	-1,088.55	-1,099.12	-1,472.85	0.00	456,998.68	757,442.09	32.25443050	-103.63426509
	9,800.00	14.50	233.27	9,566.30	5,885.40	-1,103.38	-1,114.09	-1,492.01	0.00	456,983.37	757,422.02	32.25438979	-103.63433001
	9,899.39	14.50	233.27	9,663.13	5,981.63	-1,118.12	-1,128.98	-1,512.86	0.00	456,968.82	757,402.08	32.25434915	-103.63439514
	9,900.00	14.49	233.27	9,663.72	5,982.22	-1,118.21	-1,129.07	-1,512.96	2.00	456,968.73	757,401.96	32.25434890	-103.63439554
	10,000.00	12.49	233.27	9,760.95	6,079.45	-1,132.03	-1,143.02	-1,531.67	2.00	456,954.79	757,383.27	32.25431089	-103.63445629
	10,100.00	10.49	233.27	9,858.95	6,177.45	-1,143.83	-1,154.93	-1,547.64	2.00	456,942.87	757,367.30	32.25427844	-103.63450817
	10,200.00	8.49	233.27	9,957.57	6,276.07	-1,153.59	-1,164.79	-1,560.85	2.00	456,933.02	757,354.09	32.25425158	-103.63455111
	10,293.24	6.62	233.27	10,050.00	6,368.50	-1,160.85	-1,172.12	-1,570.67	2.00	456,925.68	757,344.27	32.25423160	-103.63458305
	10,300.00	9.49	233.27	10,052.00	6,375.21	-1,161.49	-1,172.59	-1,571.29	2.00	456,925.22	757,343.65	32.25423034	-103.63458506
	10,400.00	4.49	233.27	10,156.25	6,474.75	-1,169.98	-1,178.30	-1,578.96	2.00	456,919.50	757,335.98	32.25421475	-103.63460998
	10,500.00	2.49	233.27	10,256.06	6,574.56	-1,170.58	-1,181.94	-1,583.83	2.00	456,915.86	757,331.11	32.25420484	-103.63462683
	10,600.00	0.49	233.27	10,356.02	6,674.52	-1,172.12	-1,183.50	-1,585.92	2.00	456,914.31	757,329.02	32.25420060	-103.63463259
	10,624.44	0.00	233.27	10,380.46	6,698.96	-1,172.18	-1,183.56	-1,586.00	2.00	456,914.25	757,328.94	32.25420043	-103.63463287
	10,700.00	0.00	233.27	10,456.02	6,774.52	-1,172.18	-1,183.56	-1,586.00	0.00	456,914.25	757,328.94	32.25420043	-103.63463287
	10,800.00	0.00	233.27	10,556.02	6,874.52	-1,172.18	-1,183.56	-1,586.00	0.00	456,914.25	757,328.94	32.25420043	-103.63463287
	10,900.00	0.00	233.27	10,656.02	6,974.52	-1,172.18	-1,183.56	-1,586.00	0.00	456,914.25	757,328.94	32.25420043	-103.63463287
	10,999.44	0.00	233.27	10,755.46	7,073.96	-1,172.18	-1,183.56	-1,586.00	0.00	456,914.25	757,328.94	32.25420043	-103.63463287
	11,000.00	0.06	4.55	10,756.02	7,074.52	-1,172.18	-1,183.56	-1,586.00	10.00	456,914.25	757,328.94	32.25420044	-103.63463287
	11,100.00	10.06	4.55	10,855.51	7,174.01	-1,163.41	-1,174.79	-1,585.30	10.00	456,923.02	757,329.64	32.25422454	-103.63463042
	11,200.00	20.06	4.55	10,951.95	7,270.45	-1,137.56	-1,148.92	-1,583.24	10.00	456,948.88	757,331.70	32.25429559	-103.63462322
	11,300.00	30.06	4.55	11,042.43	7,360.93	-1,095.43	-1,106.76	-1,579.89	10.00	456,991.04	757,335.05	32.25441142	-103.63461148
	11,388.11	38.87	4.55	11,138.01	7,433.50	-1,045.51	-1,054.91	-1,575.94	10.00	457,040.69	757,339.00	32.25447872	-103.63459705
	11,400.00	40.06	4.55	11,124.18	7,442.68	-1,045.51	-1,049.58	-1,578.24	10.00	457,042.38	757,339.00	32.25447872	-103.63459705
	11,500.00	50.06	4.55	11,194.73	7,513.23	-967.85	-979.11	-1,569.73	10.00	457,118.69	757,345.21	32.25476210	-103.63457593
	11,600.00	60.06	4.55	11,251.94	7,570.44	-886.29	-897.50	-1,563.24	10.00	457,200.30	757,351.71	32.25498629	-103.63455321
	11,700.00	70.06	4.55	11,294.06	7,612.56	-796.07	-807.23	-1,556.05	10.00	457,290.56	757,358.89	32.25523428	-103.63452807
	11,749.44	75.00	4.55	11,308.89	7,627.39	-749.11	-760.23	-1,552.31	10.00	457,337.56	757,362.63	32.25536338	-103.63451499
	11,800.00	77.40	3.73	11,320.96	7,639.46	-700.16	-711.26	-1,548.77	5.00	457,386.52	757,366.17	32.25549798	-103.63450250
	11,800.00	82.15	2.14	11,338.01	7,657.21	-601.95	-613.05	-1,543.75	4.00	457,484.77	757,371.19	32.25564872	-103.63448328
	12,000.00	86.90	1.59	11,348.24	7,668.47	-502.48	-513.53	-1,538.00	0.00	457,373.56	757,373.56	32.25560941	-103.63447443
	12,065.06	90.00	359.59	11,350.00	7,668.50	-437.46	-448.50	-1,541.128	5.00	457,649.27	757,373.66	32.25622000	-103.63447274
	12,100.00	90.00	359.59	11,350.00	7,668.50	-402.52	-413.56	-1,541.53	0.00	457,684.22	757,373.41	32.25631605	-103.63447281
	12,200.00	90.00	359.59	11,350.00	7,668.50	-302.52	-313.56	-1,542.24	0.00	457,784.21	757,372.70	32.25659091	-103.63447302
	12,300.00	90.00	359.59	11,350.00	7,668.50	-202.52	-213.57	-1,542.96	0.00	457,884.20	757,371.98	32.25686577	-103.63447323
	12,400.00	90.00	359.59	11,350.00	7,668.50	-102.52	-113.57	-1,543.68	0.00	457,984.20	757,371.26	32.25714064	-103.63447344
	12,500.00	90.00	359.59	11,350.00	7,668.50	-2.52	-13.57	-1,544.39	0.00	458,084.19	757,370.55	32.25741550	-103.63447364
	12,600.00	90.00	359.59	11,350.00	7,668.50	97.48	88.43	-1,545.11	0.00	458,184.18	757,369.83	32.25769037	-103.63447384
	12,700.00	90.00	359.59	11,350.00	7,668.50	197.48	186.42	-1,545.82	0.00	458,284.18	757,369.12	32.25796523	-103.63447404
	12,800.00	90.00	359.59	11,350.00	7,668.50	297.48	286.42	-1,546.54	0.00	458,384.17	757,368.40	32.25824009	-103.63447424
	12,900.00	90.00	359.59	11,350.00	7,668.50	397.48	386.42	-1,547.25	0.00	458,484.16	757,367.69	32.25851496	-103.63447444
	13,000.00	90.00	359.59	11,350.00	7,668.50	497.48	486.42	-1,547.97	0.00	458,584.16	757,366.97	32.25878982	-103.63447464
	13,100.00	90.00	359.59	11,350.00	7,668.50	597.48	586.41	-1,548.68	0.00	458,684.15	757,366.26	32.25906468	-103.63447484
	13,200.00	90.00	359.59	11,350.00	7,668.50	697.48	686.41	-1,549.40	0.00	458,784.14	757,365.54	32.25933955	-103.63447504
	13,300.00	90.00	359.59	11,350.00	7,668.50	797.48	786.41	-1,550.12	0.00	458,884.13	757,364.82	32.25961441	-103.63447524
	13,400.00	90.00	359.59	11,350.00	7,668.50	897.48	886.41	-1,550.83	0.00	458,984.13	757,364.11	32.25988928	-103.63447544
	13,500.00	90.00	359.59	11,350.00	7,668.50	997.48	986.40	-1,551.55	0.00	459,084.13	757,363.39	32.26016414	-103.63447564
	13,600.00	90.00	359.59	11,350.00	7,668.50	1,097.48	1,086.40	-1,552.26	0.00	459,184.12	757,362.68	32.26043900	-103.63447584
	13,700.00	90.00	359.59	11,350.00	7,668.50	1,197.48	1,186.40	-1,552.98	0.00	459,284.11	757,361.96	32.26071387	-103.63447604
	13,800.00	90.00	359.59	11,350.00	7,668.50	1,297.48	1,286.40	-1,553.69	0.00	459,384.11	757,361.25	32.26098873	-103.63447624
	13,900.00	90.00	359.59	11,350.00	7,668.50	1,397.48	1,386.39	-1,554.41	0.00	459,484.10	757,360.53	32.26126359	-103.63447644
	14,000.00	90.00	359.59	11,350.00	7,668.50	1,497.48	1,486.38	-1,555.12	0.00	459,584.09	757,359.82	32.26153845	-103.63447664
	14,100.00	90.00	359.59	11,350.00	7,668.50	1,597.48	1,586.39	-1,555.84	0.00	459,684.09	757,359.10	32.26181332	-103.63447684
	14,200.00	90.00	359.59	11,350.00	7,668.50	1,697.48	1,686.39	-1,556.56	0.00	459,784.08	757,358.38	32.26208819	-103.63447704
	14,300.00	90.00	359.59	11,350.00	7,668.50	1,797.48	1,786.38	-1,557.27	0.00	459,884.07	757,357.67	32.26236305	-103.63447724
	14,400.00	90.00	359.59	11,350.00	7,668.50	1,897.48	1,886.38	-1,557.99	0.00	459,984.07	757,356.95	32.26263791	-103.63447744
	14,500.00	90.00	359.59	11,350.00	7,668.50	1,997.48	1,986.38	-1,558.70	0.00	460,084.06	757,356.24	32.26291278	-103.63447764
	14,600.00	90.00	359.59	11,350.00	7,668.50	2,097.48	2,086.38	-1,559.42	0.00	460,184.05	757,355.52	32.26318764	-103.63447784
	14,700.00	90.00	359.59	11,350.00	7,668.50	2,197.48	2,186.37	-1,560.13	0.00	460,284.04	757,354.81	32.26346250	-103.63447804
	14,800.00	90.00	359.59	11,350.00	7,668.50	2,297.48	2,286.37	-1,560.85	0.00	460,384.04	757,354.09	32.26373737	-103.63447824
	14,900.00	90.00	359.59	11,350.00	7,668.50	2,397.48	2,386.37	-1,561.57	0.00	460,484.04	757,353.38	32.26401223	-103.63447844
	15,000.00	90.00	359.59	11,350.00	7,668.50	2,497.48	2,486.37	-1,562.28	0.00	460,584.03	757,352.66	32.26428709	-103.63447864
	15,100.00	90.00	359.59	11,350.00	7,668.50	2,597.48	2,586.36	-1,562.99	0.00	460,684.02	757,351.94	32.26456196	-103.63447884
	15,200.00	90.00	359.59	11,350.									

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	20,700.00	90.00	359.59	11,350.00	7,668.50	8,195.78	8,184.52	-1,602.68	0.00	466,281.97	757,312.26	32.27994963	-103.63448950
	20,800.00	90.00	359.59	11,350.00	7,668.50	8,295.78	8,284.52	-1,603.39	0.00	466,381.96	757,311.55	32.28022449	-103.63448969
	20,900.00	90.00	359.59	11,350.00	7,668.50	8,395.78	8,384.52	-1,604.10	0.00	466,481.95	757,310.84	32.28049935	-103.63448988
	21,000.00	90.00	359.59	11,350.00	7,668.50	8,495.78	8,484.52	-1,604.81	0.00	466,581.95	757,310.13	32.28077422	-103.63449007
	21,100.00	90.00	359.59	11,350.00	7,668.50	8,595.78	8,584.51	-1,605.52	0.00	466,681.94	757,309.42	32.28104908	-103.63449026
	21,200.00	90.00	359.59	11,350.00	7,668.50	8,695.78	8,684.51	-1,606.23	0.00	466,781.93	757,308.71	32.28132394	-103.63449045
	21,300.00	90.00	359.59	11,350.00	7,668.50	8,795.78	8,784.51	-1,606.94	0.00	466,881.93	757,308.00	32.28159881	-103.63449064
	21,400.00	90.00	359.59	11,350.00	7,668.50	8,895.78	8,884.51	-1,607.65	0.00	466,981.92	757,307.29	32.28187367	-103.63449083
	21,500.00	90.00	359.59	11,350.00	7,668.50	8,995.78	8,984.50	-1,608.36	0.00	467,081.92	757,306.58	32.28214853	-103.63449102
	21,600.00	90.00	359.59	11,350.00	7,668.50	9,095.78	9,084.50	-1,609.07	0.00	467,181.91	757,305.87	32.28242339	-103.63449121
Triste Draw 36-25 Federal Com 3	21,698.66	90.00	359.59	11,350.00	7,668.50	9,194.44	9,183.16	-1,609.77	0.00	467,280.56	757,305.17	32.28269457	-103.63449139

Survey Type: Def Plan

Survey Error Model: ISCWSAO 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	10,364.300	1/100,000	1.5 - 12.25	8.75 - 9.625	7	A001Mb_MWD		Triste Draw 36-25 Federal Com 301H / Coterra Tris
	1	10,364.300	19,513.279	1/100,000	8.75 - 6	7 - 4.5		A008Mb_MWD+IFR1+MS		Triste Draw 36-25 Federal Com 301H / Coterra Tris

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,190.500	17.500	13.375	
4,850.938	12.250	9.625	
12,202.500	8.750	7.000	
21,698.658	6.000	4.500	

**1. Geological Formations**

TVD of target 11,350  
MD at TD 21,699

Pilot Hole TD N/A  
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1238	N/A	
Top of Salt	1731	N/A	
Lamar	5036	N/A	
Bell Canyon	5087	Hydrocarbons	
Cherry Canyon	5940	Hydrocarbons	
Brushy Canyon	7318	Hydrocarbons	
Basal Brushy Canyon	8633	N/A	
Bone Spring Lime	8850	N/A	
Leonard/Avalon Shale	9033	Hydrocarbons	
Avalon Shale	9465	Hydrocarbons	
1st Bone Spring Sand	10050	Hydrocarbons	
2nd Bone Spring Sand	10592	Hydrocarbons	
3rd Bone Spring Carbonate	11115	Hydrocarbons	
3rd Carb/Harkey - Target	11350	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	1288	1288	10-3/4"	40.50	J-55	BT&C	2.83	5.61	12.06
9 7/8	0	11749	11308	7-5/8"	29.70	L-80	LT&C	2.71	1.30	1.69
6 3/4	0	10949	10949	5-1/2"	23.00	L-80	LT&C	2.00	1.77	2.39
6 3/4	10949	21699	11350	5"	18.00	P-110	BT&C	2.33	2.35	80.35
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

## Cimarex Energy Co., Triste Draw 36-25 Federal Com 301H

	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 ft <sup>3</sup> /sack	H <sub>2</sub> O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	500	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	134	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	921	10.30	3.64	22.18		Lead: Tuned Light + LCM
	198	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Production	1386	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	11549	25

**4. Pressure Control Equipment**

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
9 7/8	13 5/8	10M	Annular	5M	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		
6 3/4	13 5/8	10M	Annular	5M	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		

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

**5. Mud Program**

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1288'	Fresh Water	7.83 - 8.33	28	N/C
1288' to 11749'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
11749' to 21699'	OBM	9.30 - 9.80	50-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The Brine Emulsion is completely saturated brine fluid that ties diesel into itself to lower the weight of the fluid. The drilling fluid is completely salt saturated.

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

**6. Logging and Testing Procedures**

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

Additional Logs Planned	Interval

**7. Drilling Conditions**

Condition	
BH Pressure at deepest TVD	5783 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**

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

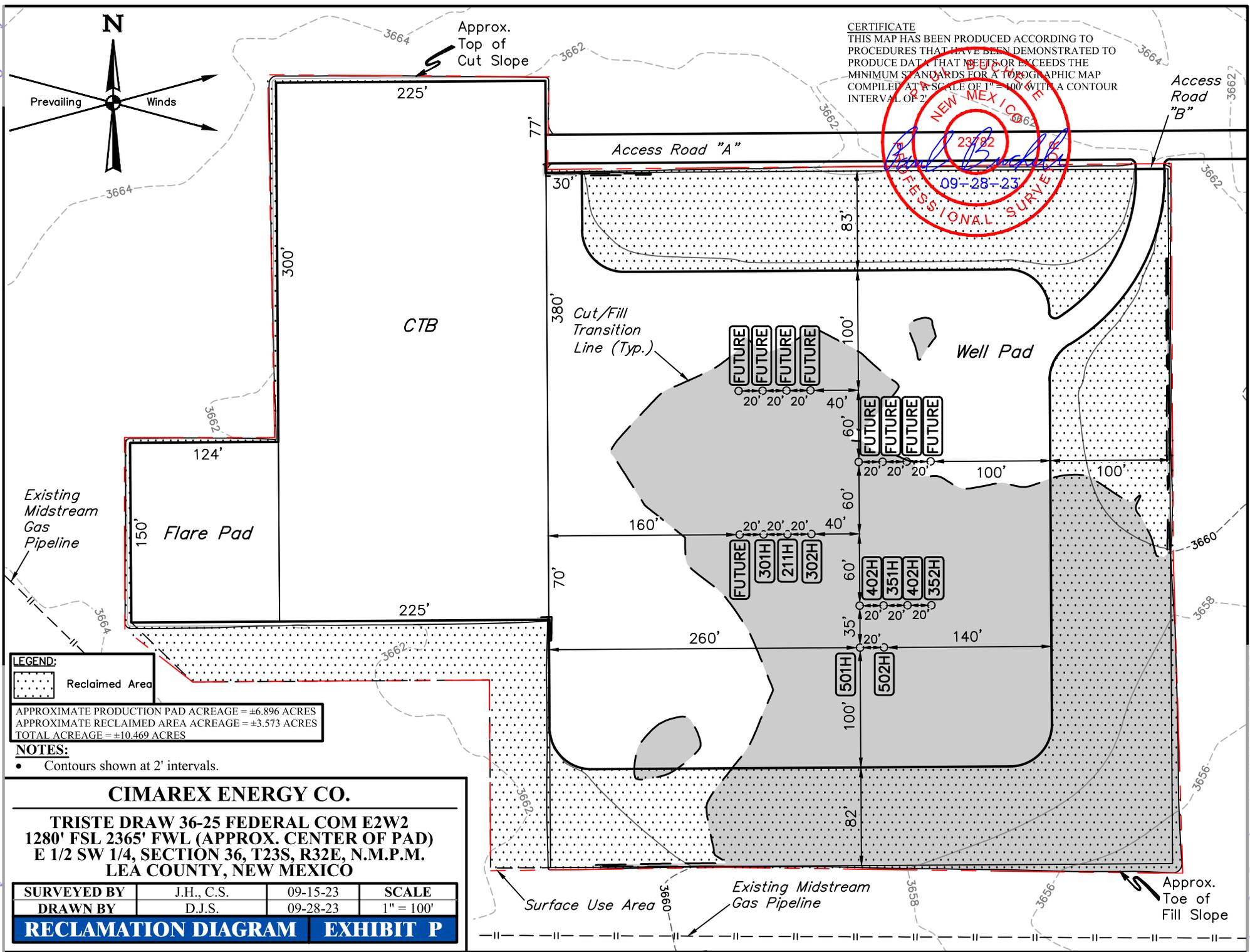
**BOPE Additional Information & Testing**

- After running the first string of casing, a 10M BOP/BOPE system with 5M 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 except the annular, which is tested to 5K). For the low test, the system will be tested to 250 psi.
- All BOP equipment will be tested utilizing a conventional test plug.
- A remote kill line is included in the BOPE system
- 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.
- If well conditions dictate, conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure **requirements**.

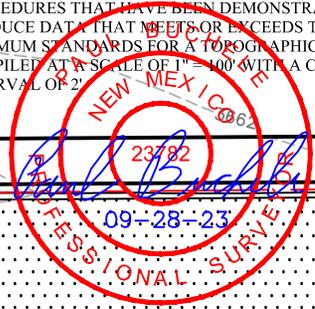
**Additional Well Control Notes**

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.





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



**LEGEND:**  
 Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±6.896 ACRES  
 APPROXIMATE RECLAIMED AREA ACREAGE = ±3.573 ACRES  
 TOTAL ACREAGE = ±10.469 ACRES

**NOTES:**  
 • Contours shown at 2' intervals.

**CIMAREX ENERGY CO.**

TRISTE DRAW 36-25 FEDERAL COM E2W2  
 1280' FSL 2365' FWL (APPROX. CENTER OF PAD)  
 E 1/2 SW 1/4, SECTION 36, T23S, R32E, N.M.P.M.  
 LEA COUNTY, NEW MEXICO

SURVEYED BY	J.H., C.S.	09-15-23	SCALE
DRAWN BY	D.J.S.	09-28-23	1" = 100'

**RECLAMATION DIAGRAM EXHIBIT P**

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description Effective May 25, 2021

**I. Operator:** Cimarex Energy Company **OGRID:** 215099 **Date:** 11/7/23

**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
Triste Draw 36-25 Federal Corn	301H	N, Sec 36 T23S, R32E	1267 FSL/2285	FWL 1270	2503	2401

**IV. Central Delivery Point Name:** Triste Draw 36-25 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
Triste Draw 36-25 Federal Corn	301H	7/15/2026	8/28/2026	12/2/2026	1/18/2027	1/18/2027

**VI. Separation Equipment:**  Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:**  Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:**  Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

**Section 2 – Enhanced Plan**  
**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

**IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

**X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.**  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system  will  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator  does  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:**  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

**If Operator checks this box, Operator will select one of the following:**

**Well Shut-In.**  Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.**  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Sarah Jordan</i>
Printed Name: Sarah Jordan
Title: Regulatory Analyst
E-mail Address: sarah.jordan@coterra.com
Date: 11/17/23
Phone: 432/620-1909
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
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.

## **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.*

# Standard New Mexico Variances

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## Variance Request #1: Skid Rig after Cementing Surface Casing

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

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

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

## Variance Request #4: Utilize Co-Flex Choke Line

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

## Variance Request #5: 10M BOPE & 5M Annular

Coterra requests permission to utilize a 5M annular BOP with a 10M BOP primary system. The 10M BOP system will include upper pipe rams, blind rams, and lower pipe rams, all tested to 10K, 100% of the rated working pressure. The annular element will be tested to 5K, 100% of the rated working pressure. As noted in the well control plan, if pressure approaches the rated working pressure of the 5K annular element while in use, the upper pipe rams will be closed, and the annular opened so as to not exceed the rated working pressures.



CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B

No: LT2024-156-001

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

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

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

LTYT/QR-5.7.1-28

No: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 <sup>rd</sup> edition
Product Specification	3"×10000psi×35ft (10.67m)	Serial Number	VTC-7660257
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
customer number	PO890145-001	Inspection Date	2024.08.30

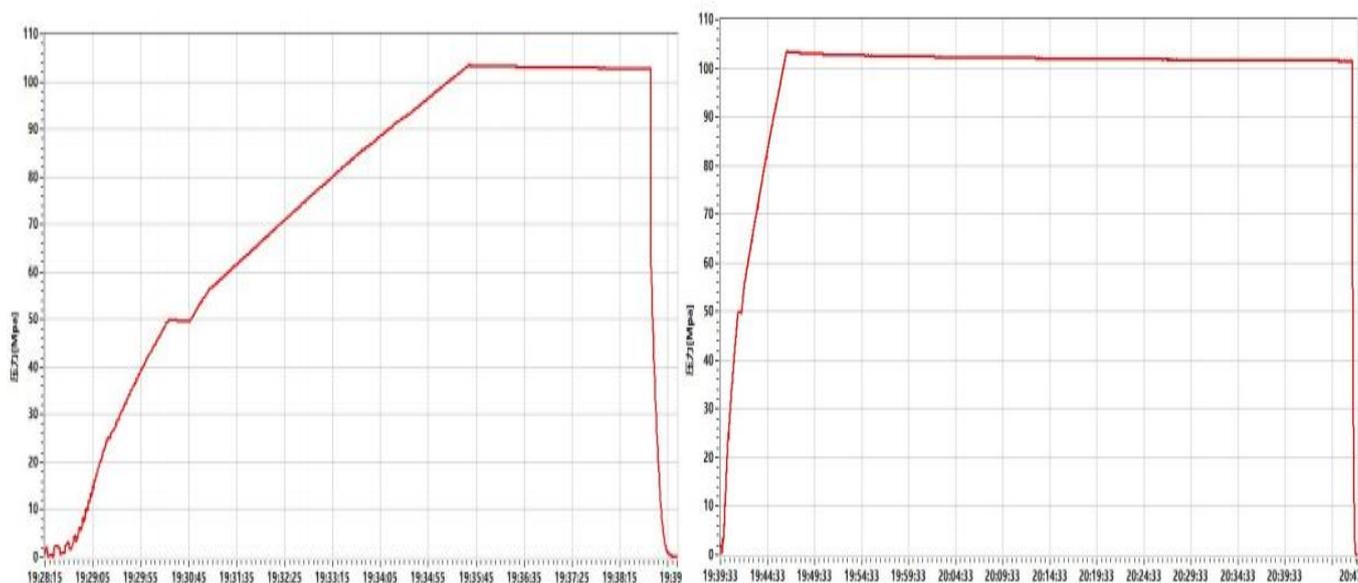
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than ±2%
Testing result	10000psi (69.0MPa) ,Rate of length change 0.6%

Hydrostatic testing

Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leakage.
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage

Graph of pressure testing:



Conclusion	The inspected items meet standard requirements of API Spec 16C 3 <sup>rd</sup> edition		16C-0403	
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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CERTIFICATE OF CONFORMANCE

**№:LT24090307**

Product Name: Choke And Kill Hose

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

Serial Number: VTC-7660257

customer number: PO890145-001

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

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Sep,2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3<sup>rd</sup> 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 3<sup>rd</sup> edition .

QC Manager: *Jane C*

Date:Sep 3, 2024



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

# SUPO Data Report

11/12/2025

APD ID: 10400095866

Submission Date: 11/20/2023

Highlighted data reflects the most recent changes

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COM

Well Number: 301H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

## Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Triste\_Draw\_36\_25\_Federal\_Com\_Existing\_Roads\_Plat\_20231115141013.pdf

Existing Road Purpose: ACCESS

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:

Triste\_Draw\_36\_25\_Federal\_Com\_New\_Road\_Plat\_20231115141035.pdf

New road type: RESOURCE

Length: 727 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: 24

**New road access erosion control:** Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, the holes shall be filled in and detours around the holes avoided.

New road access plan or profile prepared? N

New road access plan

**Operator Name:** CIMAREX ENERGY COMPANY  
**Well Name:** TRISTE DRAW 36-25 FEDERAL COM      **Well Number:** 301H

**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:** Onsite and from Caliche pit (NNE, Section 21, T23S, R32E or SENE, Section 20, T23S, R33)

**Onsite topsoil removal process:** The topsoil shall be stripped and salvaged to provide for sufficient quantities to be respreads to a depth that will be determined at the on-site over the disturbed areas needing reclamation. Topsoil shall be stockpiled separately from subsoil materials.

**Access other construction information:**

**Access miscellaneous information:**

**Number of access turnouts:**

**Access turnout map:**

**Drainage Control**

**New road drainage crossing:** CULVERT

**Drainage Control comments:** All drainage ditches will be kept clear and free-flowing and will be maintained to good standards. All culverts will be kept free of trash, free-flowing, and serviceable. The access road disturbed area will be kept free of trash during operations. All traffic will be confined to the approved road running surface. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause excess siltation or accumulation of debris in the drainage, nor shall the drainage be blocked by the roadbed.

**Road Drainage Control Structures (DCS) description:** Drainage structures or drainage dips will be placed in all 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:**

Triste\_Draw\_36\_25\_Federal\_Com\_Existing\_Well\_Plat\_20231115141106.pdf

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

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** CTB will located in the northwest corner of the pad. See location layout plat.

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**Production Facilities map:**

Triste\_Draw\_36\_25\_Federal\_Com\_Location\_Layout\_Plat\_20231115141126.pdf

**Section 5 - Location and Types of Water Supply**

**Water Source Table**

**Water source type:** OTHER

**Describe type:** Commercial Water NGL CTP Treated Produced Water

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

**Source latitude:** 32.247036

**Source longitude:** -103.619864

**Source datum:** NAD83

**City:**

**Water source permit type:** WATER RIGHT

**Water source transport method:** TRUCKING  
PIPELINE

**Source land ownership:** FEDERAL

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 150000

**Source volume (acre-feet):** 19.33396445

**Source volume (gal):** 6300000

**Water source and transportation**

Triste\_Draw\_36\_25\_\_\_Water\_Transportation\_Map\_20231115141213.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:**

<b>Operator Name:</b> CIMAREX ENERGY COMPANY	
<b>Well Name:</b> TRISTE DRAW 36-25 FEDERAL COM	<b>Well Number:</b> 301H

<b>Well casing outside diameter (in.):</b>	<b>Well casing inside diameter (in.):</b>
<b>New water well casing?</b>	<b>Used casing source:</b>
<b>Drilling method:</b>	<b>Drill material:</b>
<b>Grout material:</b>	<b>Grout depth:</b>
<b>Casing length (ft.):</b>	<b>Casing top depth (ft.):</b>
<b>Well Production type:</b>	<b>Completion Method:</b>
<b>Water well additional information:</b>	
<b>State appropriation permit:</b>	
<b>Additional information attachment:</b>	

**Section 6 - Construction Materials**

**Using any construction materials:** YES

**Construction Materials description:** Caliche will be obtained from the actual well sit if available. If caliche is not available onsite, caliche will be hauled from an existing caliche pit on private land in NNE, Section 21, T23S, R32E or SENE, Section 20, T23S, R33.

**Construction Materials source location**

**Section 7 - Methods for Handling**

**Waste type:** SEWAGE

**Waste content description:** Onsite human waste

**Amount of waste:** 300 gallons

**Waste disposal frequency :** Weekly

**Safe containment description:** A chemical porta-toilet will be furnished with the drilling rig

**Safe containmant attachment:**

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

**Disposal type description:**

**Disposal location description:** The chemical porta-toilet wastes will be hauled to state approved disposal facility for treatment.

**Waste type:** GARBAGE

**Waste content description:** Onsite Refuse/trash

**Amount of waste:** 32500 pounds

**Waste disposal frequency :** Weekly

**Safe containment description:** Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location. All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

**Safe containmant attachment:**

<b>Operator Name:</b> CIMAREX ENERGY COMPANY	
<b>Well Name:</b> TRISTE DRAW 36-25 FEDERAL COM	<b>Well Number:</b> 301H

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

**Disposal type description:**

**Disposal location description:** All trash and waste material will be hauled to the Lea County Landfill.

**Waste type:** DRILLING

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

**Amount of waste:** 15000                  barrels

**Waste disposal frequency :** Weekly

**Safe containment description:** N/A

**Safe containmant attachment:**

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

**Disposal type description:**

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

**Reserve Pit**

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?** NO

**Reserve pit length (ft.)                  Reserve pit width (ft.)**

**Reserve pit depth (ft.)    Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

**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:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**Section 8 - Ancillary**

**Are you requesting any Ancillary Facilities?:** N

**Ancillary Facilities**

**Comments:**

**Section 9 - Well Site**

**Well Site Layout Diagram:**

Triste\_Draw\_36\_25\_Federal\_Com\_Reclamation\_20231115141305.pdf

**Comments:**

**Section 10 - Plans for Surface**

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** Triste Draw

**Multiple Well Pad Number:** 36-25 Federal Com

**Recontouring**

Triste\_Draw\_36\_25\_Federal\_Com\_Reclamation\_20231115141405.pdf

**Drainage/Erosion control construction:** Pad construction will include drainage control by rerouting drainages around the pad an installing culverts or low water crossings where needed. Erosion control techniques will be used where needed to minimize wind and water erosion and sedimentation 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.

<b>Well pad proposed disturbance (acres):</b> 10.469	<b>Well pad interim reclamation (acres):</b> 3.573	<b>Well pad long term disturbance (acres):</b> 6.896
<b>Road proposed disturbance (acres):</b> 0.501	<b>Road interim reclamation (acres):</b> 0	<b>Road long term disturbance (acres):</b> 0.501
<b>Powerline proposed disturbance (acres):</b> 0	<b>Powerline interim reclamation (acres):</b> 0	<b>Powerline long term disturbance (acres):</b> 0
<b>Pipeline proposed disturbance (acres):</b> 1.048	<b>Pipeline interim reclamation (acres):</b> 1.048	<b>Pipeline long term disturbance (acres):</b> 0
<b>Other proposed disturbance (acres):</b> 0	<b>Other interim reclamation (acres):</b> 0	<b>Other long term disturbance (acres):</b> 0

**Total proposed disturbance:**  
12.017999999999999

**Total interim reclamation:** 4.621

**Total long term disturbance:** 7.397

**Disturbance Comments:**

**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 a uniform depth of topsoil, will promote cohesion between subsoil and topsoil layers, will reduce wind erosion, and will facilitate moisture capture. Specialized grading techniques may be applied, if warranted, and could include slope rounding, stair-step grading/terracing, and/or contour furrowing.

<b>Operator Name:</b> CIMAREX ENERGY COMPANY	
<b>Well Name:</b> TRISTE DRAW 36-25 FEDERAL COM	<b>Well Number:</b> 301H

**Topsoil redistribution:** After compaction relief (ripping and discing) all topsoil will be redistributed on the reclaimed area to a pre-disturbance depth. Topsoil is typically redistributed with a scraper or front-end loader which leaves a 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:** Vegetation types noted during onsite were shinnery oak, yucca, mesquite, and big blue stem.

**Existing Vegetation at the well pad**

**Existing Vegetation Community at the road:** Vegetation types noted during onsite were shinnery oak, yucca, mesquite, and big blue stem.

**Existing Vegetation Community at the road**

**Existing Vegetation Community at the pipeline:** Vegetation types noted during onsite were shinnery oak, yucca, mesquite, and big blue stem.

**Existing Vegetation Community at the pipeline**

**Existing Vegetation Community at other disturbances:** Vegetation types noted during onsite were shinnery oak, yucca, mesquite, and big blue stem.

**Existing Vegetation Community at other disturbances**

**Non native seed used?** N

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** N

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** N

**Seed harvest description:**

**Seed harvest description attachment:**

[Seed](#)

[Seed Table](#)

Seed Summary	
Seed Type	Pounds/Acre

**Total pounds/Acre:**

Seed reclamation

[Operator Contact/Responsible Official](#)

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**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 the NMSLO Reclamation Guidelines

**Monitoring plan**

**Success standards:** Success Standards will be in accordance with the NMSLO Reclamation Guidelines.

**Pit closure description:** No pit closure will be necessary. The referenced wells will be drilled utilizing a closed loop system. The closed loop system will be installed in a manner that will prevent leaks, breaks, or discharge. Drill cuttings will be contained in designated cuttings area. Upon completion of drilling operations, the cuttings will be mixed on location and dried; then spread on location.

**Pit closure attachment:**

## Section 11 - Surface

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** OTHER

**Other surface owner description:** New Mexico State Land Office

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** OTHER

**Other surface owner description:** New Mexico State Land Office

**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:** PIPELINE

**Describe:**

**Surface Owner:** OTHER

**Other surface owner description:** New Mexico State Land Office

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**Disturbance type:** OTHER

**Describe:** Powerline

**Surface Owner:** OTHER

**Other surface owner description:** New Mexico State Land Office

**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?** Y

**Use APD as ROW?** N

**ROW Type(s):**

**ROW**

**SUPO Additional Information:** State ROW will be obtained

**Use a previously conducted onsite?** N

**Previous Onsite information:**

**Other SUPO**



BEGINNING AT THE INTERSECTION OF HIGHWAY 128 AND AN EXISTING ROAD TO THE NORTHWEST (LOCATED AT NAD 83 LATITUDE 32.2105° AND LONGITUDE -103.5947) PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN WESTERLY DIRECTION APPROXIMATELY 707' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF HIGHWAY 128 AND AN EXISTING ROAD TO THE NORTHWEST (LOCATED AT NAD 83 LATITUDE 32.2105° AND LONGITUDE -103.5947) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 3.9 MILES.

REV: 1 09-28-23 D.J.S. (PAD MOVE)

**CIMAREX ENERGY CO.**

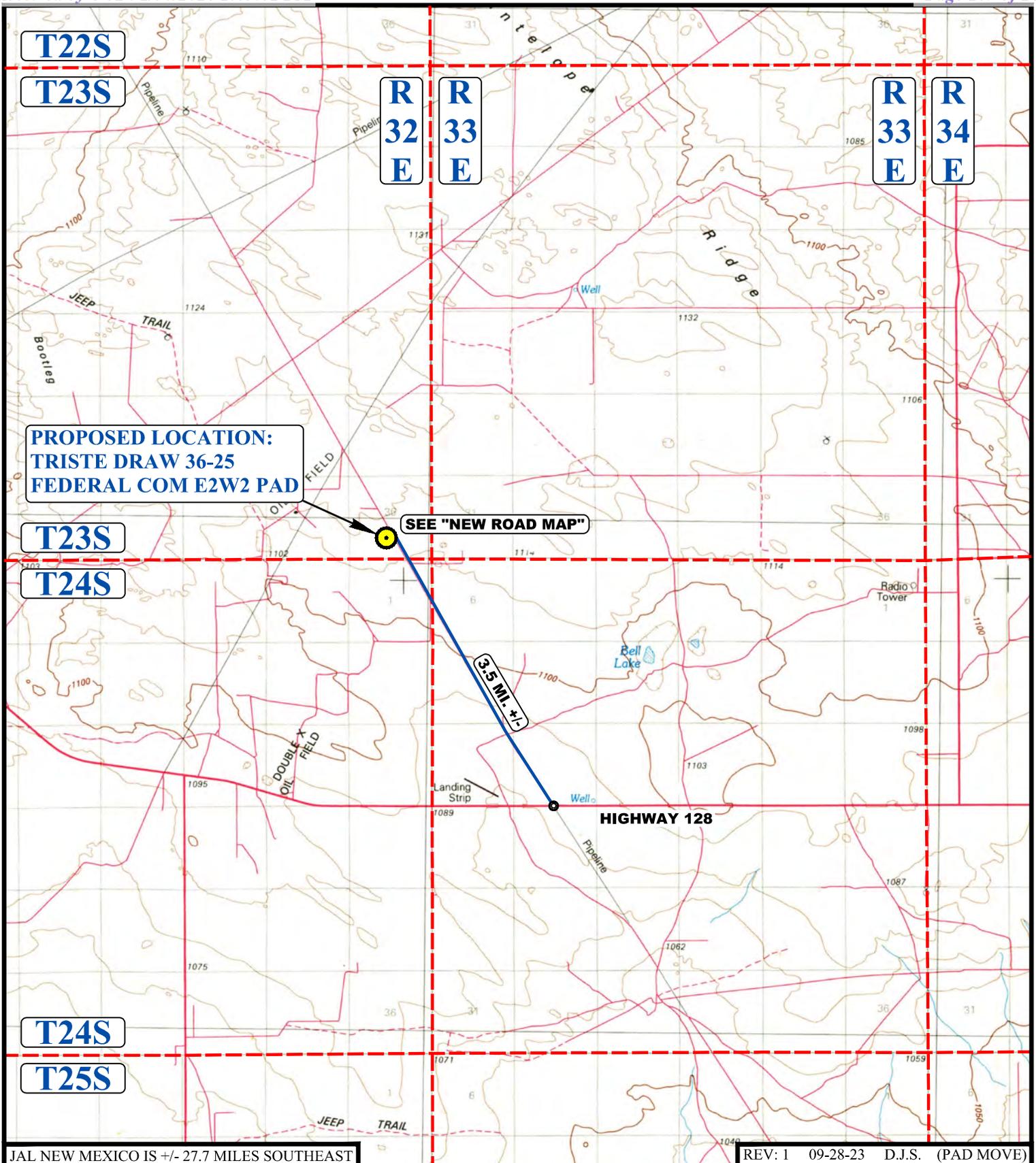
**TRISTE DRAW 36-25 FEDERAL COM E2W2 PAD  
1280' FSL 2365' FWL (APPROX. CENTER OF PAD)  
E 1/2 SW 1/4, SECTION 36, T23S, R32E, N.M.P.M.  
LEA COUNTY, NEW MEXICO**

<b>SURVEYED BY</b>	J.H., C.S.	09-15-23	
<b>DRAWN BY</b>	S.T.O.	12-02-19	
<b>ROAD DESCRIPTION</b>		<b>EXHIBIT A</b>	

**UELS, LLC**

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





JAL NEW MEXICO IS +/- 27.7 MILES SOUTHEAST

REV: 1 09-28-23 D.J.S. (PAD MOVE)

**LEGEND:**

 PROPOSED LOCATION



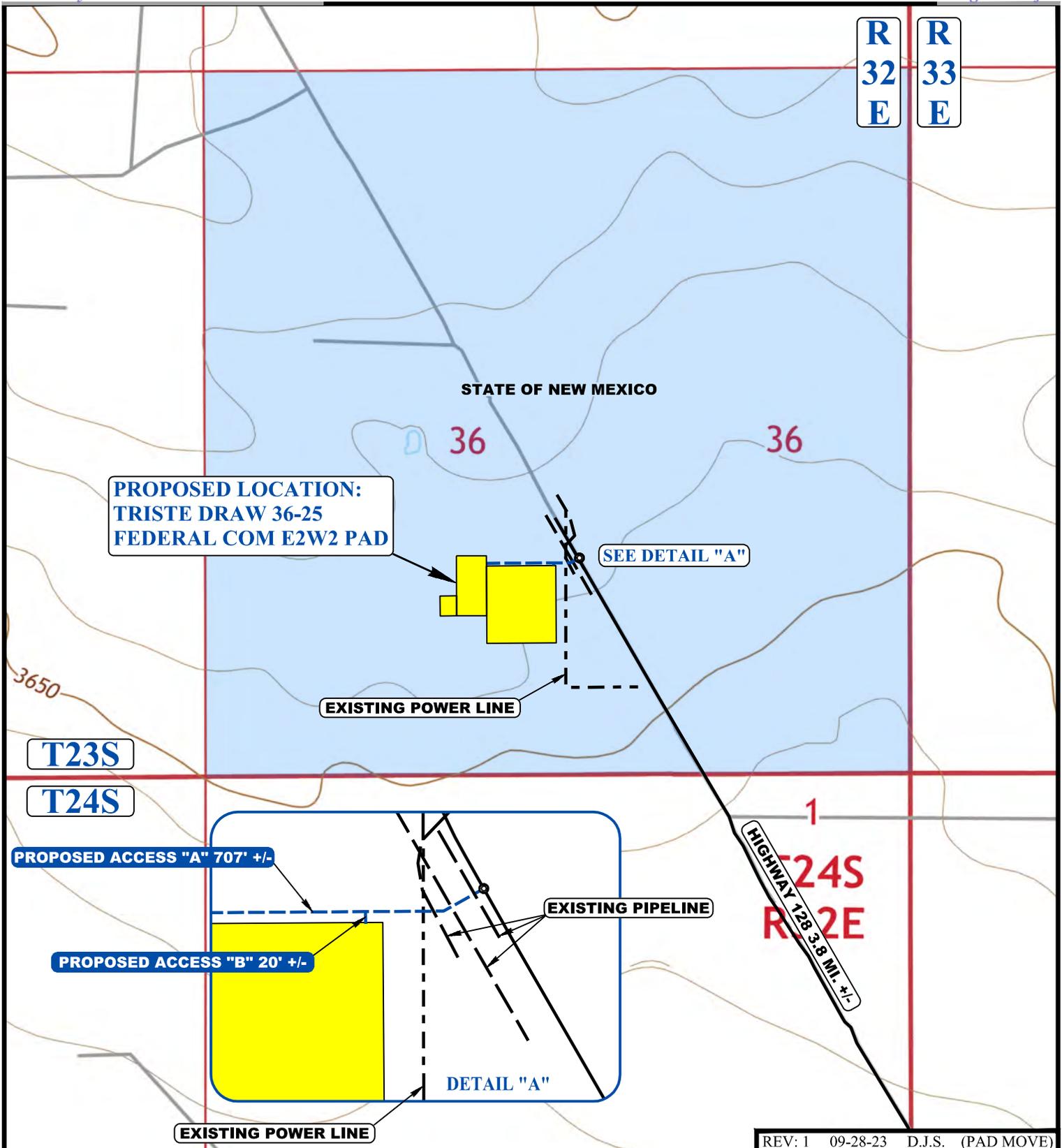
**CIMAREX ENERGY CO.**

**TRISTE DRAW 36-25 FEDERAL COM E2W2 PAD  
1280' FSL 2365' FWL (APPROX. CENTER OF PAD)  
E 1/2 SW 1/4, SECTION 36, T23S, R32E, N.M.P.M.  
LEA COUNTY, NEW MEXICO**

SURVEYED BY	J.H., C.S.	09-15-23	SCALE
DRAWN BY	S.T.O.	12-02-19	1 : 100,000
<b>PUBLIC ACCESS ROAD MAP</b>			<b>EXHIBIT B</b>



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



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

- LEGEND:**
- EXISTING ROAD
  - - - PROPOSED ROAD
  - - - EXISTING POWER LINE
  - - - EXISTING PIPELINE

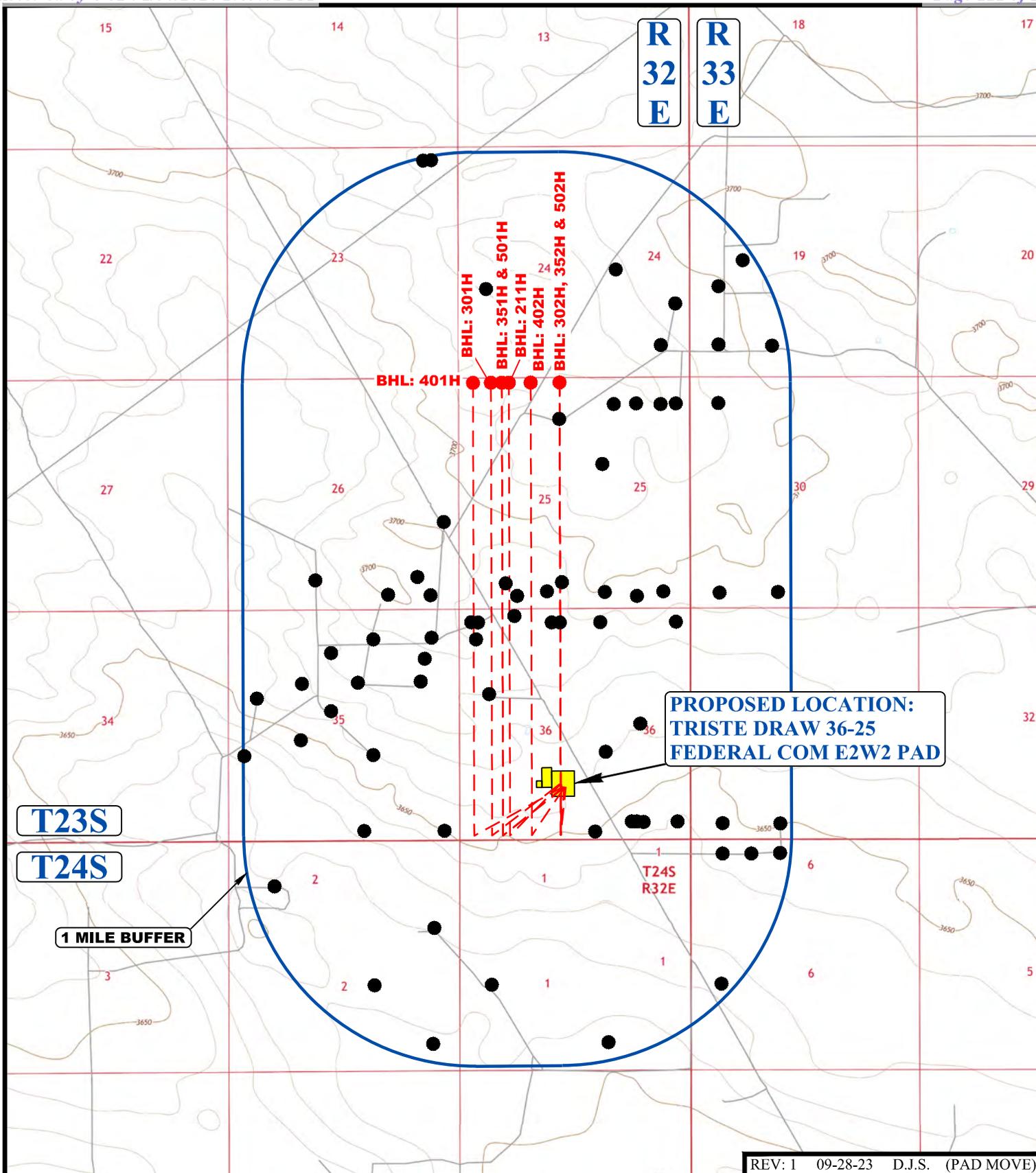


**CIMAREX ENERGY CO.**

**TRISTE DRAW 36-25 FEDERAL COM E2W2 PAD  
1280' FSL 2365' FWL (APPROX. CENTER OF PAD)  
E 1/2 SW 1/4, SECTION 36, T23S, R32E, N.M.P.M.  
LEA COUNTY, NEW MEXICO**

SURVEYED BY	J.H., C.S.	09-15-23	SCALE
DRAWN BY	S.T.O.	12-02-19	1 : 12,000
<b>NEW ROAD MAP</b>		<b>EXHIBIT D</b>	

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



**PROPOSED LOCATION:  
TRISTE DRAW 36-25  
FEDERAL COM E2W2 PAD**

**T23S**

**T24S**

**1 MILE BUFFER**

REV: 1 09-28-23 D.J.S. (PAD MOVE)

**LEGEND:**

● EXISTING WELLS



**CIMAREX ENERGY CO.**

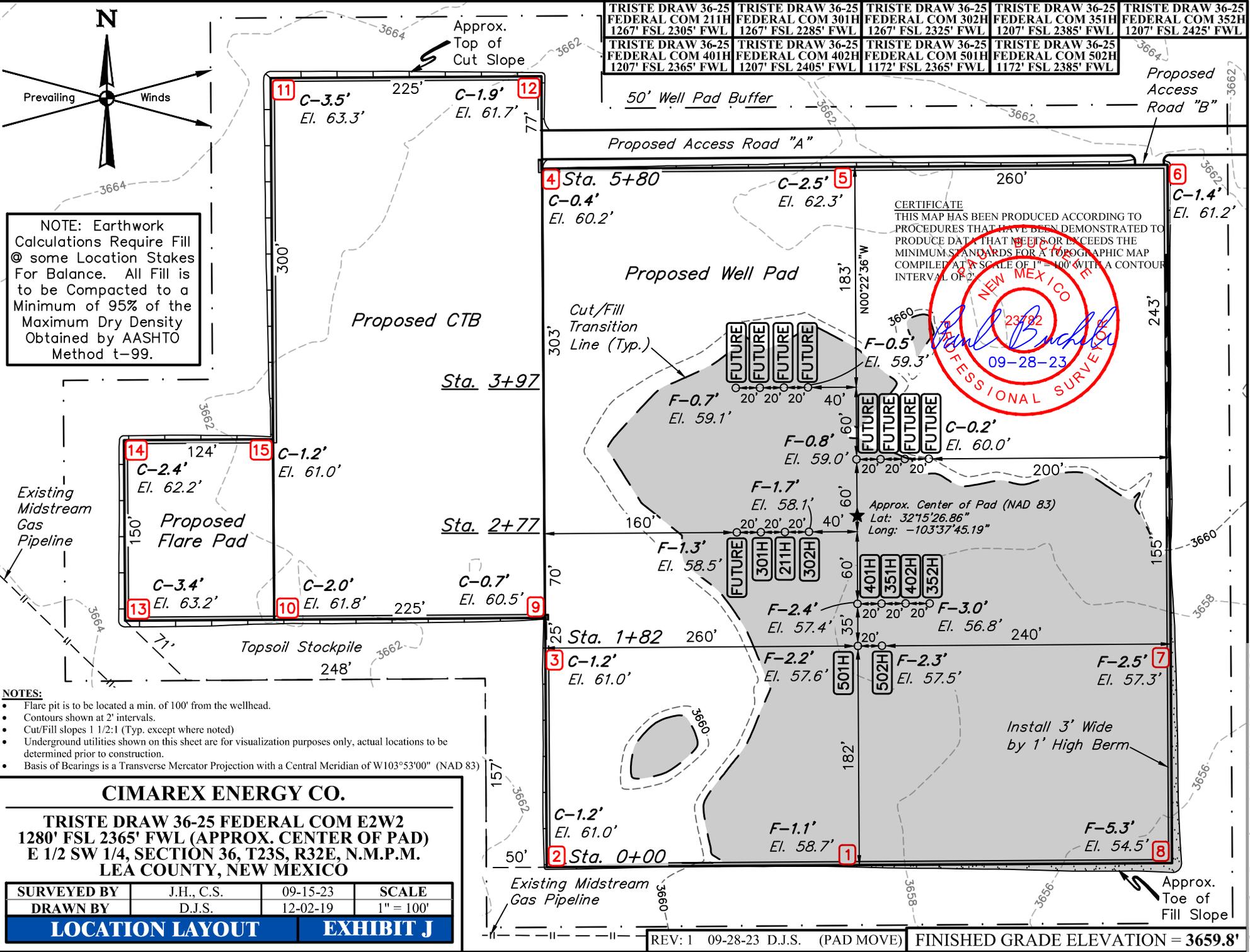
**TRISTE DRAW 36-25 FEDERAL COM E2W2 PAD  
1280' FSL 2365' FWL (APPROX. CENTER OF PAD)  
E 1/2 SW 1/4, SECTION 36, T23S, R32E, N.M.P.M.  
LEA COUNTY, NEW MEXICO**

SURVEYED BY	J.H., C.S.	09-15-23	SCALE
DRAWN BY	S.T.O.	12-02-19	1 : 36,000
<b>1 MILE RADIUS MAP</b>			<b>EXHIBIT E</b>

**UELS, LLC**

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





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

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

**CIMAREX ENERGY CO.**

TRISTE DRAW 36-25 FEDERAL COM E2W2  
 1280' FSL 2365' FWL (APPROX. CENTER OF PAD)  
 E 1/2 SW 1/4, SECTION 36, T23S, R32E, N.M.P.M.  
 LEA COUNTY, NEW MEXICO

SURVEYED BY	J.H., C.S.	09-15-23	SCALE
DRAWN BY	D.J.S.	12-02-19	1" = 100'

**LOCATION LAYOUT**      **EXHIBIT J**

TRISTE DRAW 36-25 FEDERAL COM 211H 1267' FSL 2305' FWL	TRISTE DRAW 36-25 FEDERAL COM 301H 1267' FSL 2285' FWL	TRISTE DRAW 36-25 FEDERAL COM 302H 1267' FSL 2325' FWL	TRISTE DRAW 36-25 FEDERAL COM 351H 1207' FSL 2385' FWL	TRISTE DRAW 36-25 FEDERAL COM 352H 1207' FSL 2425' FWL
TRISTE DRAW 36-25 FEDERAL COM 401H 1207' FSL 2365' FWL	TRISTE DRAW 36-25 FEDERAL COM 402H 1207' FSL 2405' FWL	TRISTE DRAW 36-25 FEDERAL COM 501H 1172' FSL 2365' FWL	TRISTE DRAW 36-25 FEDERAL COM 502H 1172' FSL 2385' FWL	

REV: 1 09-28-23 D.J.S. (PAD MOVE) FINISHED GRADE ELEVATION = 3659.8'

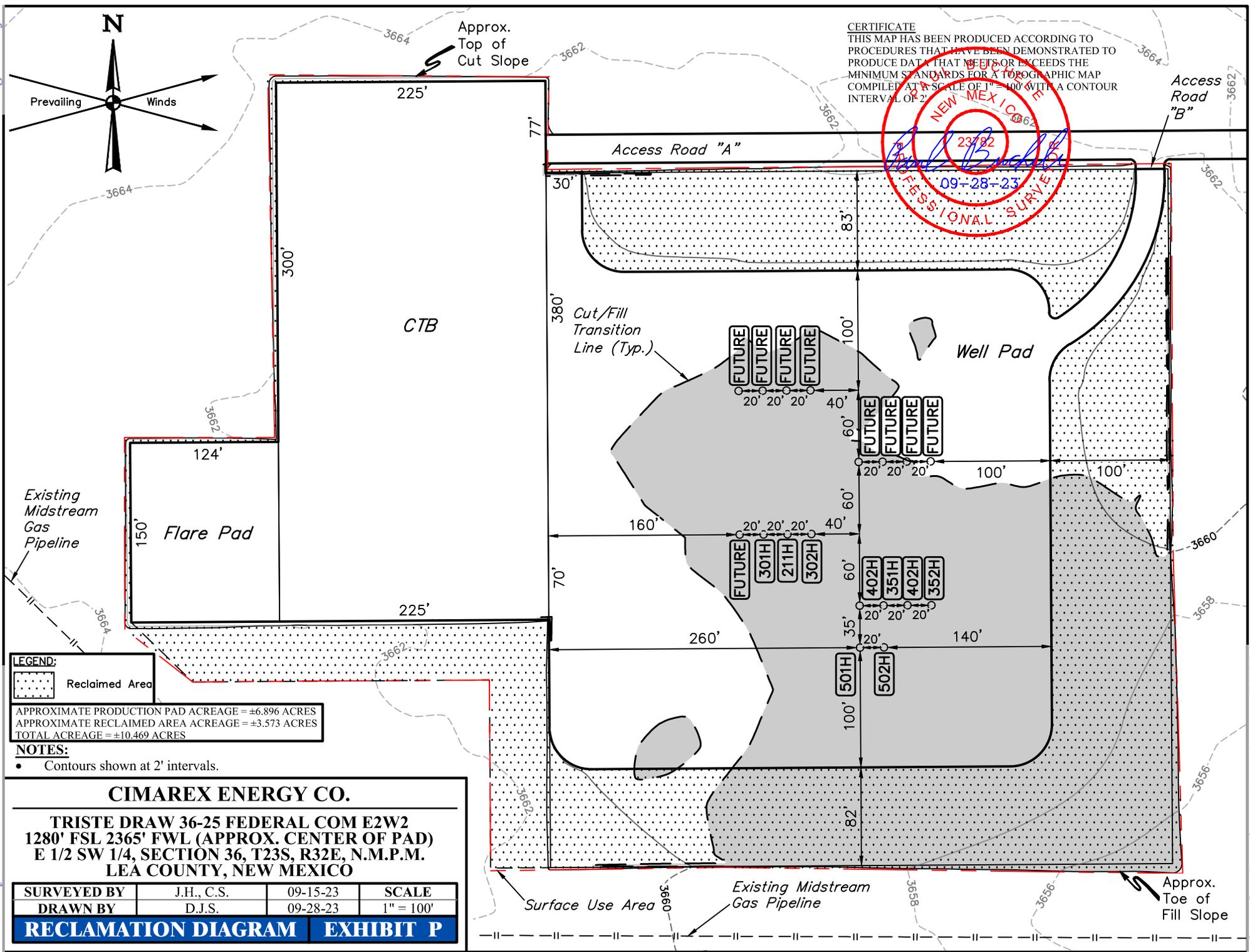
# Triste Draw 36-25 Pad

Water Transportation Map

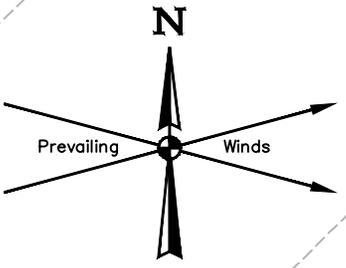
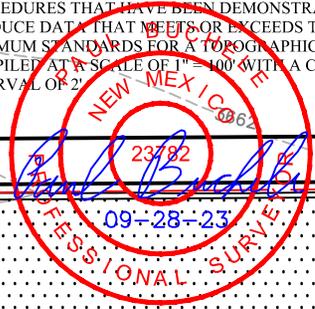
Head southeast  
Triste Draw 36-25 Pad

Commercial Water Source  
Turn left





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



**LEGEND:**  
 Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±6.896 ACRES  
 APPROXIMATE RECLAIMED AREA ACREAGE = ±3.573 ACRES  
 TOTAL ACREAGE = ±10.469 ACRES

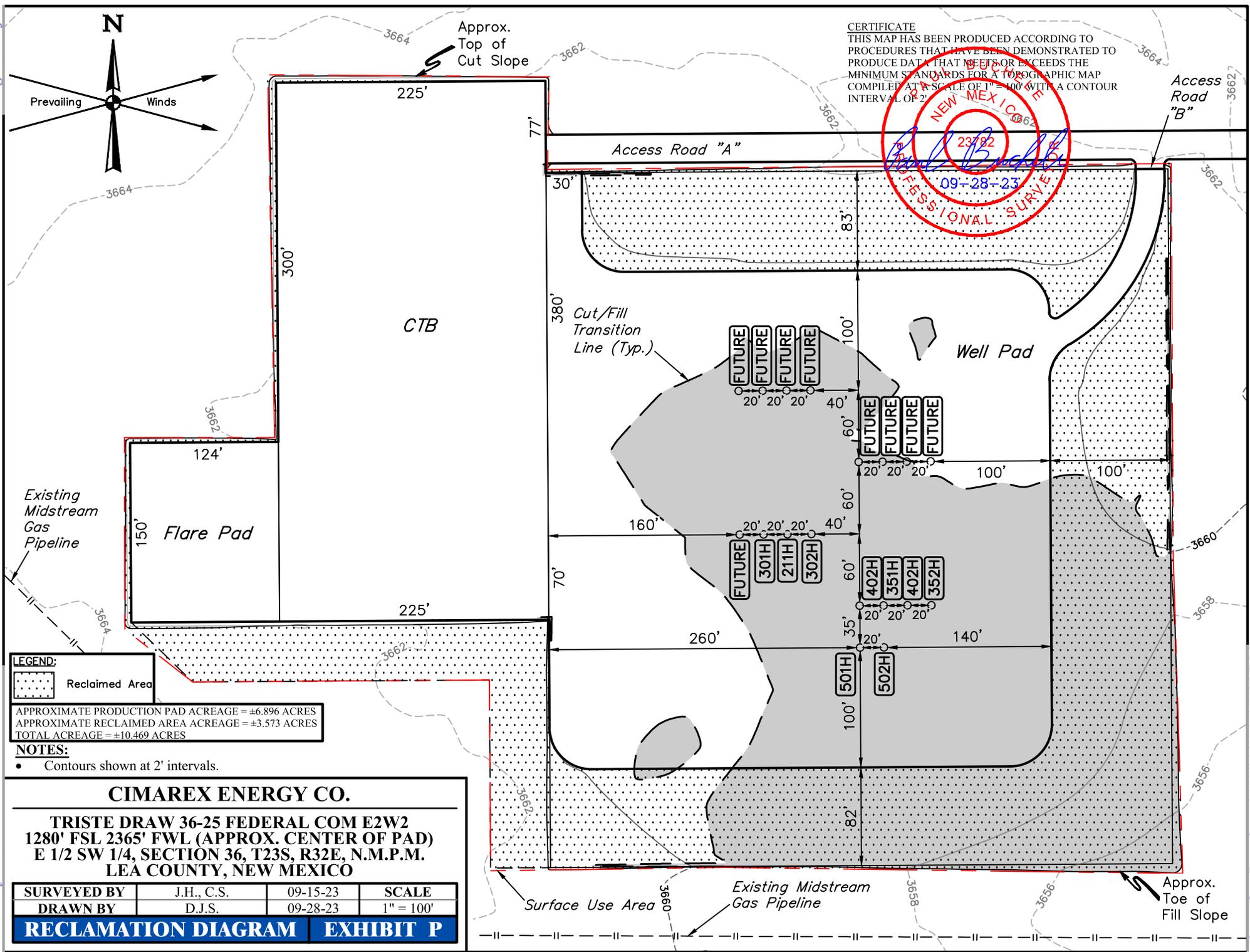
**NOTES:**  
 • Contours shown at 2' intervals.

**CIMAREX ENERGY CO.**

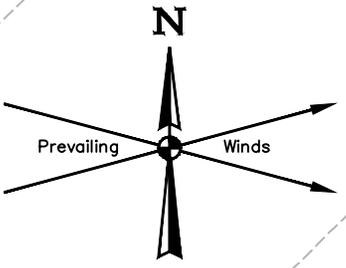
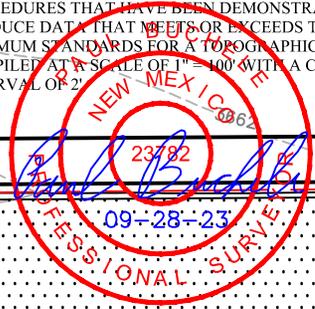
TRISTE DRAW 36-25 FEDERAL COM E2W2  
 1280' FSL 2365' FWL (APPROX. CENTER OF PAD)  
 E 1/2 SW 1/4, SECTION 36, T23S, R32E, N.M.P.M.  
 LEA COUNTY, NEW MEXICO

<b>SURVEYED BY</b>	J.H., C.S.	09-15-23	<b>SCALE</b>
<b>DRAWN BY</b>	D.J.S.	09-28-23	1" = 100'

**RECLAMATION DIAGRAM EXHIBIT P**



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



**LEGEND:**  
 Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±6.896 ACRES  
 APPROXIMATE RECLAIMED AREA ACREAGE = ±3.573 ACRES  
 TOTAL ACREAGE = ±10.469 ACRES

**NOTES:**  
 • Contours shown at 2' intervals.

**CIMAREX ENERGY CO.**

TRISTE DRAW 36-25 FEDERAL COM E2W2  
 1280' FSL 2365' FWL (APPROX. CENTER OF PAD)  
 E 1/2 SW 1/4, SECTION 36, T23S, R32E, N.M.P.M.  
 LEA COUNTY, NEW MEXICO

SURVEYED BY	J.H., C.S.	09-15-23	SCALE
DRAWN BY	D.J.S.	09-28-23	1" = 100'

**RECLAMATION DIAGRAM EXHIBIT P**



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

# PWD Data Report

11/12/2025

**APD ID:** 10400095866

**Submission Date:** 11/20/2023

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**Well Type:** OIL WELL

**Well Work Type:** Drill

## Section 1 - General

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

## Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD Surface Owner Description:**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit**

**Pit liner description:**

**Pit liner manufacturers**

**Precipitated solids disposal:**

**Decribe precipitated solids disposal:**

**Precipitated solids disposal**

**Lined pit precipitated solids disposal schedule:**

**Lined pit precipitated solids disposal schedule**

**Lined pit reclamation description:**

**Lined pit reclamation**

**Leak detection system description:**

**Leak detection system**

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**Lined pit Monitor description:**

**Lined pit Monitor**

**Lined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information**

**Section 3 - Unlined**

**Would you like to utilize Unlined Pit PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD disturbance (acres):**

**PWD surface owner:**

**Other PWD Surface Owner Description:**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal**

**Unlined pit precipitated solids disposal schedule:**

**Unlined pit precipitated solids disposal schedule**

**Unlined pit reclamation description:**

**Unlined pit reclamation**

**Unlined pit Monitor description:**

**Unlined pit Monitor**

**Do you propose to put the produced water to beneficial use?**

**Beneficial use user**

**Estimated depth of the shallowest aquifer (feet):**

**Precipitated Solids Permit**

**Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?**

**TDS lab results:**

**Geologic and hydrologic**

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**State**

**Unlined Produced Water Pit Estimated**

**Unlined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Unlined pit bond number:**

**Unlined pit bond amount:**

**Additional bond information**

**Section 4 -**

**Would you like to utilize Injection PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD Surface Owner Description:**

**Injection PWD discharge volume (bbl/day):**

**Injection well mineral owner:**

**Injection well type:**

**Injection well number:**

**Injection well name:**

**Assigned injection well API number?**

**Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection**

**Underground Injection Control (UIC) Permit?**

**UIC Permit**

**Section 5 - Surface**

**Would you like to utilize Surface Discharge PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD Surface Owner Description :**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**Section 6 -**

**Would you like to utilize Other PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**PWD Surface Owner Description:**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Other PWD type**

**Have other regulatory requirements been met?**

**Other regulatory requirements**



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

# Bond Info Data

11/12/2025

**APD ID:** 10400095866

**Submission Date:** 11/20/2023

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

**Operator Name:** CIMAREX ENERGY COMPANY

**Well Name:** TRISTE DRAW 36-25 FEDERAL COM

**Well Number:** 301H

**Well Type:** OIL WELL

**Well Work Type:** Drill

## Bond

**Federal/Indian APD:** FED

**BLM Bond number:** NMB001188

**BIA Bond number:**

**Do you have a reclamation bond?** NO

**Is the reclamation bond a rider under the BLM bond?**

**Is the reclamation bond BLM or Forest Service?**

**BLM reclamation bond number:**

**Forest Service reclamation bond number:**

**Forest Service reclamation bond attachment:**

**Reclamation bond amount:**

**Reclamation bond rider amount:**

**Additional reclamation bond information attachment:**

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

**Well Name:** TRISTE DRAW 36-25  
FEDERAL COM

**Well Location:** T23S / R32E / SEC 36 /  
SESW / 32.257425 / -103.629478

**County or Parish/State:** LEA /  
NM

**Well Number:** 301H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMLC063228

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:**

**Operator:** CIMAREX ENERGY  
COMPANY

### Notice of Intent

**Sundry ID:** 2882369

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 11/12/2025

**Time Sundry Submitted:** 02:17

**Date proposed operation will begin:** 11/24/2025

**Procedure Description:** Cimarex Energy Co requests the following changes to the Triste Draw 36-25 Fed Com 301H (APD ID 10400095866) SHL change from 1267 FSL 2285 FWL to 1267 FSL 2245 FWL BHL change from 100 FNL 740 FWL to 100 FNL 760 FWL Casing design change from 13 3/8 x 9 5/8 x 7 x 4 1/2 to 13 3/8 x 9 5/8 x 5 1/2 See attached updated, C102, drilling plan and directionals.

### NOI Attachments

**Procedure Description**

Triste\_Draw\_36\_25\_Fed\_Com\_301H\_Sundry\_Submittal\_11122025\_20251112141719.pdf

**Well Name:** TRISTE DRAW 36-25  
FEDERAL COM

**Well Location:** T23S / R32E / SEC 36 /  
SESW / 32.257425 / -103.629478

**County or Parish/State:** LEA /  
NM

**Well Number:** 301H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMLC063228

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:**

**Operator:** CIMAREX ENERGY  
COMPANY

### Conditions of Approval

#### Additional

Triste\_Draw\_36\_25\_Federal\_Com\_301H302H\_Dr\_COA\_20260122102746.pdf

36\_23\_32\_N\_Sundry\_ID\_2882369\_Triste\_Draw\_36\_25\_Federal\_Com\_301H\_Lea\_NM86154\_CIMAREX\_ENERGY\_CO  
MPANY\_13\_22g\_2\_27\_2024\_LV\_20260122102746.pdf

### Operator

*I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** SHELLY BOWEN

**Signed on:** NOV 12, 2025 02:17 PM

**Name:** CIMAREX ENERGY COMPANY

**Title:** Regulatory Analyst

**Street Address:** 6001 DEAUVILLE BLVD STE 300N

**City:** MIDLAND

**State:** TX

**Phone:** (432) 620-1644

**Email address:** DL\_PBUREGULATORY@COTERRA.COM

### Field

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

### BLM Point of Contact

**BLM POC Name:** CHRISTOPHER WALLS

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752342234

**BLM POC Email Address:** CWALLS@BLM.GOV

**Disposition:** Approved

**Disposition Date:** 01/28/2026

**Signature:** Chris Walls

Form 3160-5  
(October 2024)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0220  
Expires: October 31, 2027

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.	NMLC063228
6. If Indian, Allottee or Tribe Name	

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. TRISTE DRAW 36-25 FEDERAL COM/301H	
2. Name of Operator CIMAREX ENERGY COMPANY	9. API Well No.	
3a. Address 6001 DEAUVILLE BLVD STE 300N, MIDLAND, TX	3b. Phone No. (include area code) (432) 571-7800	10. Field and Pool or Exploratory Area TRISTE DRAW/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 36/T23S/R32E/NMP		11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Cimarex Energy Co requests the following changes to the Triste Draw 36-25 Fed Com 301H (APD ID 10400095866)  
 SHL change from 1267 FSL 2285 FWL to 1267 FSL 2245 FWL  
 BHL change from 100 FNL 740 FWL to 100 FNL 760 FWL  
 Casing design change from 13 3/8 x 9 5/8 x 7 x 4 1/2 to 13 3/8 x 9 5/8 x 5 1/2

See attached updated, C102, drilling plan and directionals.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) SHELLY BOWEN / Ph: (432) 620-1644	Title Regulatory Analyst
Signature (Electronic Submission)	Date 11/12/2025

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 01/28/2026
Conditions of approval, if any, are attached. Approval of this notice 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.		Office CARLSBAD

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.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Location of Well

0. SHL: SESW / 1267 FSL / 2285 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.257425 / LONG: -103.629478 ( TVD: 0 feet, MD: 0 feet )

PPP: SWSW / 100 FSL / 740 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.254199 / LONG: -103.634472 ( TVD: 10755 feet, MD: 10999 feet )

PPP: NWNW / 2643 FNL / 740 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.275706 / LONG: -103.634487 ( TVD: 11350 feet, MD: 19156 feet )

PPP: NWNW / 0 FNL / 740 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.26844 / LONG: -103.634482 ( TVD: 11350 feet, MD: 16512 feet )

BHL: NWNW / 100 FNL / 740 FWL / TWSP: 23S / RANGE: 32E / SECTION: 25 / LAT: 32.282695 / LONG: -103.364491 ( TVD: 11350 feet, MD: 21698 feet )

CONFIDENTIAL

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Cimarex Energy Company
<b>LOCATION:</b>	Section 36, T.23 S., R.32 E., NMPM
<b>COUNTY:</b>	Lea County, New Mexico

<b>WELL NAME &amp; NO.:</b>	Triste Draw 36-25 Federal Com 301H
<b>ATS/API ID:</b>	ATS-24-426
<b>APD ID:</b>	10400095866
<b>Sundry ID:</b>	2882369

<b>WELL NAME &amp; NO.:</b>	Triste Draw 36-25 Federal Com 302H
<b>ATS/API ID:</b>	ATS-24-425
<b>APD ID:</b>	10400095870
<b>Sundry ID:</b>	2882370

COA

H2S	Yes		
Potash		None	
Cave/Karst Potential	Low		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Other
Wellhead	Conventional and Multibowl		
Other	<input type="checkbox"/> 4 String <input type="checkbox"/> 5 String	Capitan Reef None	<input type="checkbox"/> WIPP
Other	Pilot Hole None	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry	Waste Prevention Waste MP	
Special Requirements Variance	<input type="checkbox"/> BOPE Break Testing <input type="checkbox"/> Offline BOPE Testing	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

## A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) 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 **13-3/8** inch surface casing shall be set at approximately **1550 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
  - ❖ In Ochoa Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least **500 feet** into the previous casing string. Operator shall provide method of verification.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

### C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

#### Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

#### Option 2:

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

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

## D. SPECIAL REQUIREMENT (S)

### **Communitization Agreement**

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

## GENERAL REQUIREMENTS

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

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

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 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

### A. CASING

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

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

#### C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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

Long Vo (LVO) 1/22/2026

36-23-32-N Sundry ID 2882369 Triste Draw 36-25 Federal Com 301H Lea NM86154 CIMAREX ENERGY COMPANY 13-22g 2-27-2024  
LV.xlsm

Triste Draw 36-25 Federal Com 301H

13 3/8		surface csg in a		17 1/2		inch hole.		Design Factors				Surface	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	48.00		h 40	stc	4.33	1.15	0.64	1,550	3	1.09	2.34	74,400	
"B"				stc				0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 535								Totals:	1,550			74,400	
Comparison of Proposed to Minimum Required Cement Volumes Tail Cmt does not circ to sfc.													
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg		
17 1/2	0.6946	811	1330	1077	24	8.33	1585	2M			1.56		
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.													

9 5/8		casing inside the		13 3/8		Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		hck 55	ltc	3.13	1.57	0.68	5,097	1	1.21	2.67	203,880
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 570								Totals:	5,097			203,880
The cement volume(s) are intended to achieve a top of 0 ft from surface or a 1550 overlap.												
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
12 1/4	0.3132	1251	3888	1694	129	10.30	3251	5M			0.81	
D V Tool(s): t by stage % : #VALUE! #VALUE! Class 'C' tail cmt yld > 1.35 sum of sx 1251 3888 Σ CuFt 3888 Σ%excess 129												
Burst Frac Gradient(s) for Segment(s) A, B, C, D = 0.79, b, c, d All > 0.70, OK.												

5 1/2		casing inside the		9 5/8		Design Factors				Prod 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00		p 110	btc	2.80	1.92	2.19	21,699	2	3.89	3.41	433,980
"B"								0				0
"C"								0				0
"D"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,519								Totals:	21,699			433,980
The cement volume(s) are intended to achieve a top of 4597 ft from surface or a 500 overlap.												
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
7 7/8	0.1733	2816	4371	3007	45	9.70					0.91	
Class 'C' tail cmt yld > 1.35												

#N/A		0		5 1/2		Design Factors				<Choose Casing>		
Segment	#/ft	Grade		Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"				0.00				0				0
"B"				0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:								Totals:	0			0
Cmt vol calc below includes this csg, TOC intended #N/A ft from surface or a #N/A overlap.												
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
0		#N/A	#N/A	0	#N/A							
#N/A Capitan Reef est top XXXX.												

<b>C-102</b>  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024  Submittal Type: <input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled
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**WELL LOCATION INFORMATION**

API Number <b>30-025-55921</b>	Pool Code 96603	Pool Name Triste Draw; Bone Spring
Property Code <b>336010</b>	Property Name <b>TRISTE DRAW 36-25 FEDERAL COM</b>	Well Number 301H
OGRID No. 215099	Operator Name <b>CIMAREX ENERGY CO.</b>	Ground Level Elevation 3660.6'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

**Surface Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
N	36	23S	32E		1267 SOUTH	2245 WEST	32.257425°	-103.629607°	LEA

**Bottom Hole Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
D	25	23S	32E		100 NORTH	760 WEST	32.282695°	-103.634427°	LEA

Dedicated Acres 320	Infill or Defining Well Infill	Defining Well API 221H- pending	Overlapping Spacing Unit (Y/N) <b>N- Y</b>	Consolidation Code C
Order Numbers. NA		Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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
M	36	23S	32E		100 SOUTH	760 WEST	32.254200°	-103.634407°	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
M	36	23S	32E		100 SOUTH	760 WEST	32.254200°	-103.634407°	LEA

**Last Take Point (LTP)**

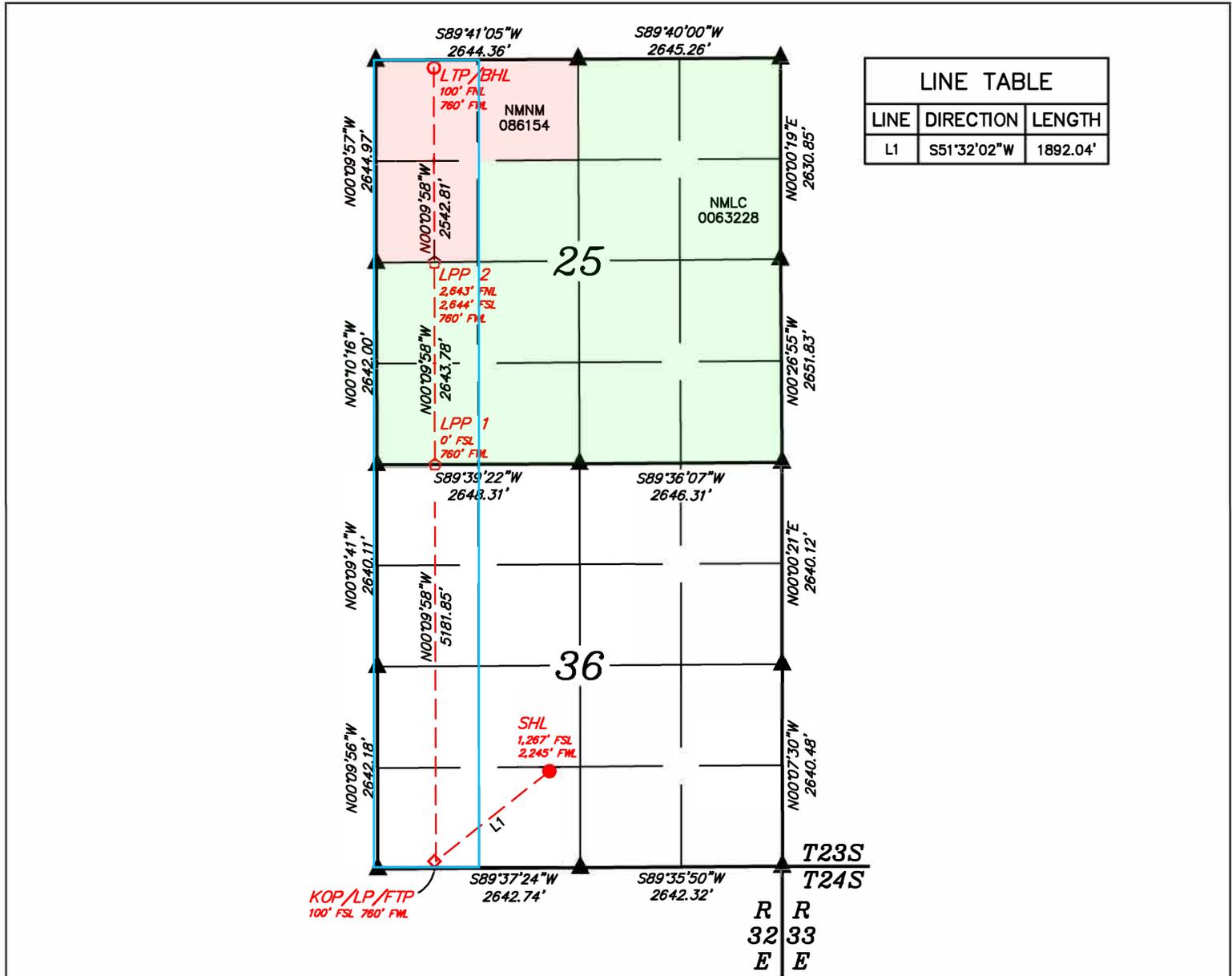
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
D	25	23S	32E		100 NORTH	760 WEST	32.282695°	-103.634427°	LEA

Unitized Area or Area of Uniform Interest W2W2 Secs 25 & 36	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3660.6
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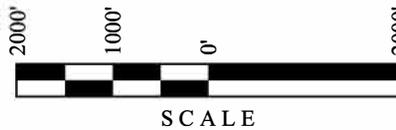
<p><b>OPERATOR CERTIFICATIONS</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the 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.</i></p> <p><i>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.</i></p> <p><i>Shelly Bowen</i> 11/12/2025</p>	<p><b>SURVEYOR CERTIFICATIONS</b></p> <p><i>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.</i></p> <div style="text-align: center;"> </div>
Signature _____ Date _____	Signature and Seal of Professional Surveyor _____
Shelly Bowen	23782 July 19, 2024
Printed Name _____	Certificate Number _____ Date of Survey _____
shelly.bowen@coterra.com	
Email Address _____	

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

Property Name TRISTE DRAW 36-25 FEDERAL COM	Well Number 301H	Drawn By D.J.S. 09-28-23	Revised By REV. 3 H.S.S. 09-16-25 (WELL BORE CHANGES)
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- 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 Oil & Gas Leases.



<b>NAD 83 (SURFACE HOLE LOCATION)</b>
LATITUDE = 32°15'26.73" (32.257425°)
LONGITUDE = -103°37'46.59" (-103.629607°)
<b>NAD 27 (SURFACE HOLE LOCATION)</b>
LATITUDE = 32°15'26.28" (32.257301°)
LONGITUDE = -103°37'44.85" (-103.629126°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b>
N: 458097.33' E: 758874.89'
<b>STATE PLANE NAD 27 (N.M. EAST)</b>
N: 458038.18' E: 717691.16'

<b>NAD 83 (KOP/LP/FTP)</b>
LATITUDE = 32°15'15.12" (32.254200°)
LONGITUDE = -103°38'03.87" (-103.634407°)
<b>NAD 27 (KOP/LP/FTP)</b>
LATITUDE = 32°15'14.67" (32.254076°)
LONGITUDE = -103°38'02.13" (-103.633926°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b>
N: 456914.39' E: 757398.67'
<b>STATE PLANE NAD 27 (N.M. EAST)</b>
N: 456855.28' E: 716214.91'

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

<b>NAD 83 (LPP 1)</b>
LATITUDE = 32°16'06.39" (32.268441°)
LONGITUDE = -103°38'03.90" (-103.634417°)
<b>NAD 27 (LPP 1)</b>
LATITUDE = 32°16'05.94" (32.268317°)
LONGITUDE = -103°38'02.17" (-103.633935°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b>
N: 462095.20' E: 757361.94'
<b>STATE PLANE NAD 27 (N.M. EAST)</b>
N: 462035.94' E: 716178.32'

<b>NAD 83 (LPP 2)</b>
LATITUDE = 32°16'32.54" (32.275706°)
LONGITUDE = -103°38'03.92" (-103.634422°)
<b>NAD 27 (LPP 2)</b>
LATITUDE = 32°16'32.10" (32.275583°)
LONGITUDE = -103°38'02.18" (-103.633940°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b>
N: 464738.45' E: 757343.19'
<b>STATE PLANE NAD 27 (N.M. EAST)</b>
N: 464679.11' E: 716159.64'

<b>NAD 83 (LTP/BHL)</b>
LATITUDE = 32°16'57.70" (32.282695°)
LONGITUDE = -103°38'03.94" (-103.634427°)
<b>NAD 27 (LTP/BHL)</b>
LATITUDE = 32°16'57.26" (32.282571°)
LONGITUDE = -103°38'02.20" (-103.633944°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b>
N: 467280.75' E: 757325.17'
<b>STATE PLANE NAD 27 (N.M. EAST)</b>
N: 467221.34' E: 716141.68'

**1. Geological Formations**

TVD of target 11,350  
MD at TD 21,699

Pilot Hole TD N/A  
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1238	N/A	
Top of Salt	1731	N/A	
Lamar	5036	N/A	
Bell Canyon	5087	Hydrocarbons	
Cherry Canyon	5940	Hydrocarbons	
Brushy Canyon	7318	Hydrocarbons	
Basal Brushy Canyon	8633	N/A	
Bone Spring Lime	8850	N/A	
Leonard/Avalon Shale	9033	Hydrocarbons	
Avalon Shale	9465	Hydrocarbons	
1st Bone Spring Sand	10050	Hydrocarbons	
2nd Bone Spring Sand	10592	Hydrocarbons	
3rd Bone Spring Carbonate	11115	Hydrocarbons	
3rd Carb/Harkey - Target	11350	Hydrocarbons	

**2. Casing Program**

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1320	1320	13-3/8"	48.00	H-40	ST&C	1.29	3.03	5.08
12 1/4	0	5097	5030	9-5/8"	40.00	HCK-55	LT&C	1.41	1.47	2.79
7 7/8	0	10956								
7 7/8	10956	21699	11452	5-1/2"	20.00	P-110	BT&C	1.92	2.14	64.62
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

## Cimarex Energy Co., Triste Draw 36-25 Federal Com 301H

	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	# Sk	Wt. lb/gal	Yld ft <sup>3</sup> /sack	H <sub>2</sub> O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	640	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	171	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	959	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	292	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	676	10.80	2.35	9.60	17:43	Lead: Tuned Light I Class H
	2140	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	51
Production	4897	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
<b>12 1/4</b>	<b>13 5/8</b>	<b>10M</b>	Annular	5M	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		
<b>7 7/8</b>	<b>13 5/8</b>	<b>10M</b>	Annular	5M	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		

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

**5. Mud Program**

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1320'	Fresh Water	7.83 - 8.33	28	N/C
1320' to 5097'	Brine Water	9.80 - 10.30	30-32	N/C
5097' to 21699'	Cut Brine or OBM	9.20 - 9.70	27-70	N/C

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

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

**6. Logging and Testing Procedures**

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

Additional Logs Planned	Interval

**7. Drilling Conditions**

Condition	
BH Pressure at deepest TVD	5776 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 5M 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 except the annular, which is tested to 5K). 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

Rev1



<b>Borehole:</b> Triste Draw 36-25 Federal Com 301H	<b>Well:</b> Triste Draw 36-25 Federal Com 301H	<b>Field:</b> NM Lea County (NAD 83)	<b>Structure:</b> Coterra - Triste Draw 36-25 Federal Com Pad (west)
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<b>Gravity &amp; Magnetic Parameters</b>		<b>Surface Location</b>				<b>NAD83 New Mexico State Plane, Eastern Zone, US Feet</b>		<b>Miscellaneous</b>	
<b>Model:</b> HDGM 2025	<b>Dip:</b> 59.746°	<b>Date:</b> 06-Oct-2025	<b>Lat:</b> N 32 15 26.73	<b>Northing:</b> 458097.33ftUS	<b>Grid Conv:</b> 0.3756°	<b>Slot:</b> 301H	<b>TVD Ref:</b> RKB (3687.100 ft above MSL)		
<b>MagDec:</b> 6.08°	<b>FS:</b> 47198.374nT	<b>Gravity FS:</b> 998.437mgn (9.80665 Based)	<b>Lon:</b> W 103 37 46.59	<b>Easting:</b> 758874.89ftUS	<b>Scale Fact:</b> 0.99996329	<b>Plan:</b> Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFc 06Oct25			

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [1267° FSL, 2245° FWL]	600.00	0.00	225.05	0.00	0.00	0.00	0.00	0.00
Nudge, Build 1.5°/100ft	1000.00	6.00	225.05	999.27	-14.68	-14.78	-14.81	1.50
Hold								
Rustler	1240.05	6.00	225.05	1238.00	-32.28	-32.51	-32.57	0.00
A3 Top	1314.45	6.00	225.05	1312.00	-37.73	-38.00	-38.07	0.00
A3 Base	1442.15	6.00	225.05	1439.00	-47.09	-47.44	-47.52	0.00
Build 2°/100ft	1503.49	6.00	225.05	1500.00	-51.59	-51.96	-52.06	0.00
Salado	1731.02	10.67	225.05	1731.00	-75.33	-75.88	-76.01	2.00
Hold								
Lamar	5072.30	11.00	225.05	5005.00	-521.72	-525.50	-526.39	0.00
Bell Canyon	5128.33	11.00	225.05	5060.00	-529.21	-533.05	-533.95	0.00
Cherry Canyon	6024.80	11.00	225.05	5940.00	-649.21	-653.91	-655.02	0.00
Brushy Canyon	7428.59	11.00	225.05	7318.00	-837.10	-843.16	-844.59	0.00
Basal Brushy Canyon	8768.21	11.00	225.05	8633.00	-1016.40	-1023.77	-1025.50	0.00
Bone Spring Lime	8989.27	11.00	225.05	8850.00	-1045.99	-1053.57	-1055.36	0.00
Leonard	9175.70	11.00	225.05	9033.00	-1070.94	-1078.70	-1080.53	0.00
Avalon	9615.78	11.00	225.05	9465.00	-1129.85	-1138.04	-1139.96	0.00
Drop 2°/100ft	9651.19	11.00	225.05	9499.76	-1134.59	-1142.81	-1144.75	0.00
Hold								
1st BS SS	10204.81	0.00	225.05	10050.00	-1171.51	-1180.00	-1182.00	0.00
2nd BS SS	10789.81	0.00	225.05	10635.00	-1171.51	-1180.00	-1182.00	0.00
KOP, Build 10°/100ft	10956.23	0.00	225.05	10801.42	-1171.51	-1180.00	-1182.00	0.00
3rd BS Carb	11313.52	35.73	339.59	11136.00	-1070.18	-1078.93	-1219.61	10.00
Build & Turn 5°/100ft	11706.23	75.00	339.59	11354.85	-772.46	-781.99	-1330.10	10.00
Landing Point	12060.49	89.70	349.59	11402.00	-434.55	-444.74	-1422.50	5.00
Turn 2°/100ft	12145.49	89.70	349.59	11402.45	-350.84	-361.14	-1437.86	0.00
Hold								
Turn 2°/100ft	12645.48	89.70	359.59	11405.07	146.61	135.99	-1484.94	2.00
Turn 2°/100ft	14845.48	89.70	359.59	11416.59	2346.58	2335.90	-1500.69	0.00
Hold								
Turn 2°/100ft	15145.47	89.70	5.59	11418.16	2646.02	2635.45	-1487.14	2.00
Hold								
Turn 2°/100ft	15475.47	89.70	5.59	11419.89	2974.21	2963.87	-1454.99	0.00
Hold								
Turn 2°/100ft	15775.47	89.70	359.59	11421.46	3273.65	3263.42	-1441.44	2.00
Hold								
Turn 2°/100ft	15875.47	89.70	359.59	11421.97	3373.65	3363.42	-1442.16	0.00
Hold								
Turn 2°/100ft	16175.47	89.70	359.59	11423.53	3673.10	3662.74	-1459.99	2.00
Turn 2°/100ft	16505.47	89.70	353.59	11425.24	4001.28	3990.67	-1496.83	0.00
Section 36-25 Line Cross	16513.00	89.70	353.74	11425.28	4008.78	3995.16	-1497.66	2.00
Hold								
Pool NMLC0063228 exit NMMN086154 enter	16805.41	89.70	359.59	11426.79	4300.67	4289.94	-1514.67	0.00
Triste Draw 36-25 Federal Com 301H - FTP	19157.00	89.70	359.59	11438.90	6652.23	6641.44	-1531.54	0.00
Triste Draw 36-25 Federal Com 301H - BHL [100° FNL, 760° FWL]	21699.43	89.70	359.59	11452.00	9194.63	9183.78	-1549.78	0.00



Grid North  
Tot Corr (M->G 5.705°)  
Mag Dec (6.080°)  
Grid Conv (0.376°)

**CONTROLLED**

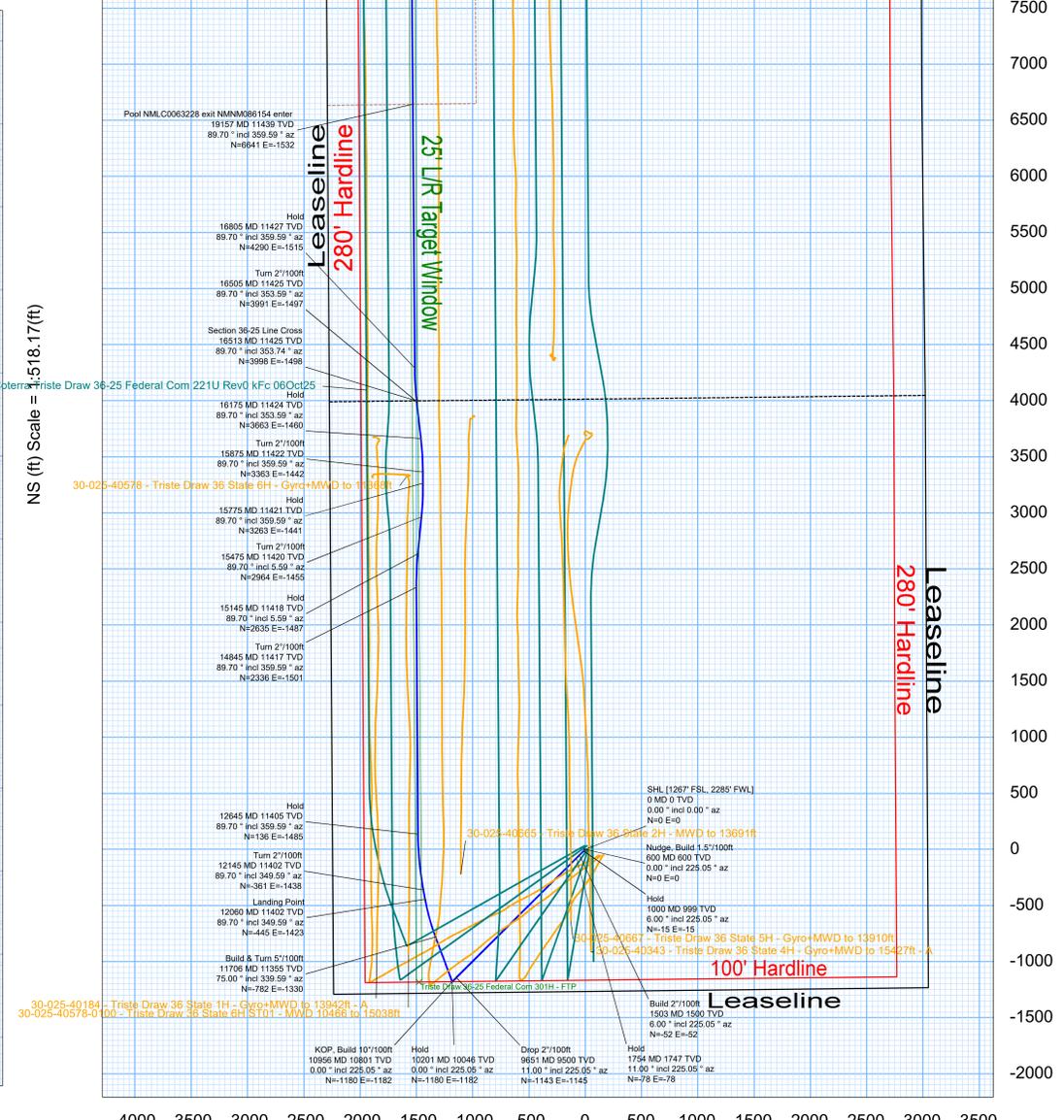
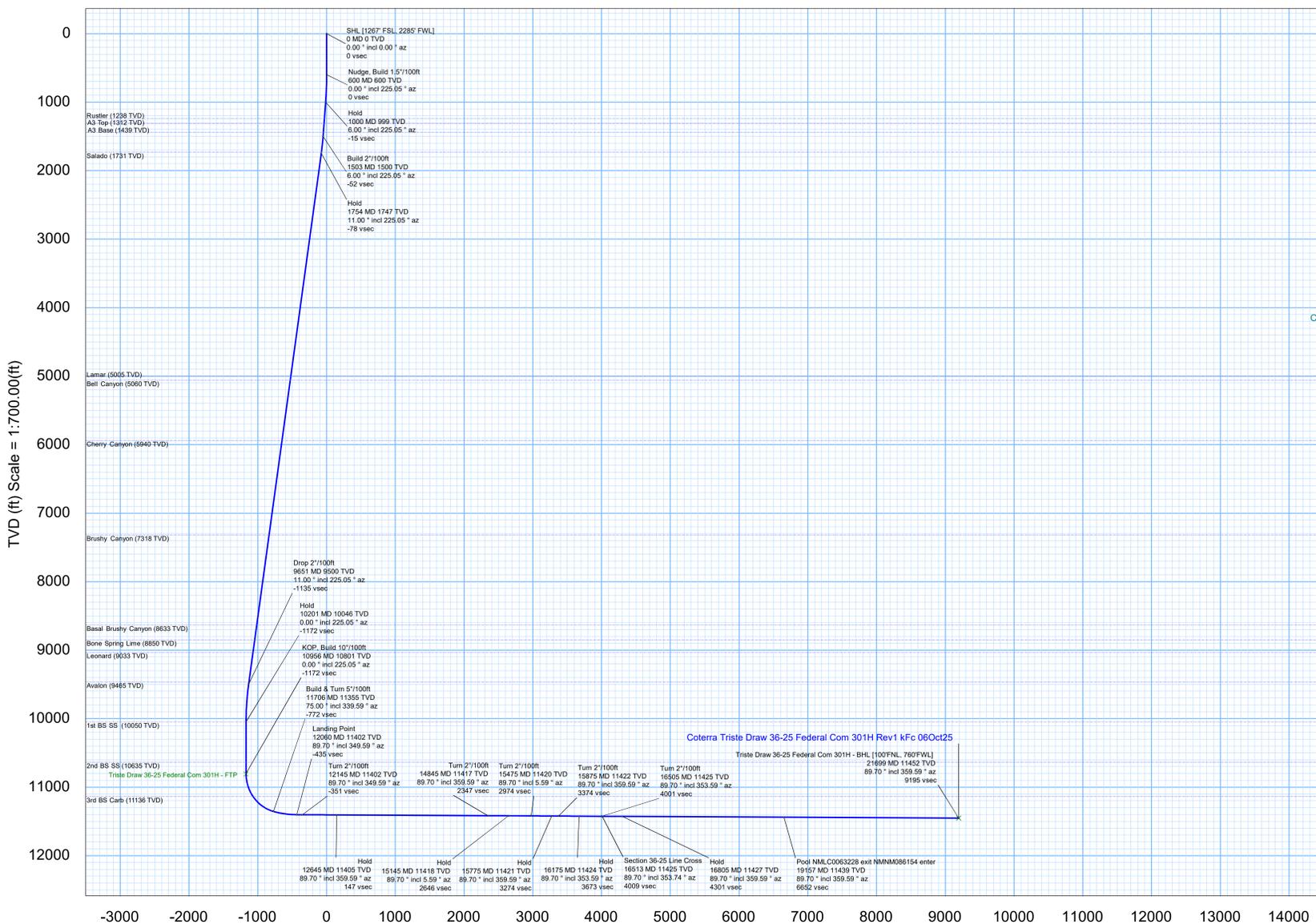
Plan ref: Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFc 06Oct25

Drawing ref: of 3

Copy number: 07-Oct-2025

1	Client	
2	Client	
3	Office	
4	Office	

Copy number for



Vertical Section (ft) Azim = 359.59° Scale = 1:700.00(ft) Origin = 0N/-S, 0E/-W

EW (ft) Scale = 1:518.17(ft)



Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFc 06Oct25 Proposal Geodetic Report

Def Plan

Report Date: October 07, 2025 - 09:06 PM (UTC 0)
Client: COTERRA
Field: NM Lea County (HAD 83)
Structure / Slot: Coterra - Triste Draw 36-25 Federal Com Pad (west) / 301H
Well: Triste Draw 36-25 Federal Com 301H
Borehole: Triste Draw 36-25 Federal Com 301H
UBHI / API#: Unknown / Unknown
Survey Name: Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFc 06Oct25
Survey Date: October 07, 2025
Tort / AHD / DDI / ERD Ratio: 148.713 / 12083.792 ft / 6.532 / 1.055
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: 32°15'26.72858"N, 103°37'46.58587"W
Location Grid N/E Y/X: N 458097.330 R/US, E 758874.890 R/US
CRS Grid Convergence Angle: 0.376°
Grid Scale Factor: 0.99996329(Applied)
Version / Patch: 2025.1.0.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 59.590 (GRID North)
Vertical Section Origin: 0.000 ft, 0.000 R
TVD Reference Datum: RKB
TVD Reference Elevation: 3687.100 ft above MSL
Seabed / Ground Elevation: 3660.600 ft above MSL
Magnetic Declination: 6.080°
Total Gravity Field Strength: 998.437mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47198.374 nT
Magnetic Dip Angle: 59.746°
Declination Date: October 06, 2025
Magnetic Declination Model: HDGM 2025
North Reference: Grid North
Grid Convergence Used: 0.376°
Total Corr Mag North->Grid North: 5.705°
Local Coord Referenced To: Well Head

Table with columns: Comments, MD (ft), Incl (°), Azim (°), TVD (ft), TVDSS (ft), VSEC (ft), NS (ft), EW (ft), DLS (°/100ft), Northing (RUS), Easting (RUS), Latitude (°), Longitude (°). Rows include SHL [1267FSL, 2245FWL], Nudge, Build 1.5"/100ft, Hold, Rustler, A3 Top, A3 Base, Build 2"/100ft, Salado, Hold, Lamar, Bell Canyon, Cherry Canyon, Brushy Canyon, Basal Brushy Canyon, Bone Spring Lime.

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/1000)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)
	9,000.00	11.00	225.05	8,860.53	5,173.43	-1,047.43	-1,055.02	-1,056.81	0.00	457,042.35	757,818.13	32.25454380	-103.63304782
	9,100.00	11.00	225.05	8,958.69	5,271.59	-1,060.81	-1,068.50	-1,070.31	0.00	457,028.87	757,804.62	32.25450699	-103.63309179
	9,175.70	11.00	225.05	9,033.00	5,345.90	-1,070.94	-1,078.70	-1,080.53	0.00	457,018.67	757,794.40	32.25447912	-103.63312507
	9,200.00	11.00	225.05	9,056.86	5,369.76	-1,074.20	-1,081.98	-1,083.81	0.00	457,015.39	757,791.12	32.25447018	-103.63313575
	9,300.00	11.00	225.05	9,155.02	5,467.92	-1,087.58	-1,095.46	-1,097.32	0.00	457,001.91	757,777.61	32.25443336	-103.63317972
	9,400.00	11.00	225.05	9,253.18	5,566.08	-1,100.97	-1,108.94	-1,110.82	0.00	456,988.43	757,764.11	32.25439655	-103.63322369
	9,500.00	11.00	225.05	9,351.34	5,664.24	-1,114.35	-1,122.33	-1,124.33	0.00	456,974.95	757,750.61	32.25435974	-103.63326765
	9,600.00	11.00	225.05	9,449.51	5,762.41	-1,127.74	-1,135.91	-1,137.83	0.00	456,961.47	757,737.10	32.25432292	-103.63331162
	9,615.78	11.00	225.05	9,465.00	5,777.90	-1,129.85	-1,138.04	-1,139.96	0.00	456,959.34	757,734.97	32.25431711	-103.63331852
	9,651.19	11.00	225.05	9,499.76	5,812.66	-1,134.59	-1,142.81	-1,144.75	0.00	456,954.57	757,730.19	32.25430408	-103.63333415
	9,700.00	10.02	225.05	9,547.74	5,860.64	-1,140.83	-1,149.10	-1,151.05	2.00	456,948.27	757,723.89	32.25428690	-103.63335464
	9,800.00	8.02	225.05	9,646.50	5,959.40	-1,151.84	-1,161.18	-1,162.15	2.00	456,937.19	757,712.79	32.25426564	-103.63339078
	9,900.00	6.02	225.05	9,745.75	6,058.65	-1,160.41	-1,168.82	-1,170.80	2.00	456,928.55	757,704.13	32.25423305	-103.63341895
	10,000.00	4.02	225.05	9,845.36	6,158.26	-1,166.56	-1,175.01	-1,177.00	2.00	456,922.37	757,697.94	32.25421615	-103.63344913
	10,100.00	2.02	225.05	9,945.21	6,258.11	-1,170.26	-1,178.74	-1,180.73	2.00	456,916.64	757,694.20	32.25420597	-103.63348198
	10,200.00	0.02	225.05	10,045.19	6,358.09	-1,171.51	-1,180.00	-1,182.00	2.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,201.23	0.00	225.05	10,046.42	6,359.32	-1,171.51	-1,180.00	-1,182.00	2.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,204.81	0.00	225.05	10,050.00	6,362.90	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,300.00	0.00	225.05	10,145.19	6,458.09	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,400.00	0.00	225.05	10,245.19	6,558.09	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,500.00	0.00	225.05	10,345.19	6,658.09	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,600.00	0.00	225.05	10,445.19	6,758.09	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,700.00	0.00	225.05	10,545.19	6,858.09	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,789.81	0.00	225.05	10,635.00	6,947.90	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,800.00	0.00	225.05	10,645.19	6,958.09	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,900.00	0.00	225.05	10,745.19	7,058.09	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
	10,956.23	0.00	225.05	10,801.42	7,114.32	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
	11,000.00	4.38	339.59	10,845.15	7,158.05	-1,169.94	-1,178.43	-1,182.58	10.00	456,916.94	757,692.35	32.25420684	-103.63345726
	11,000.00	4.38	339.59	10,843.69	7,156.59	-1,169.94	-1,178.43	-1,182.58	10.00	456,916.94	757,692.35	32.25420684	-103.63345726
	11,200.00	24.38	339.59	11,037.90	7,350.80	-1,123.51	-1,132.13	-1,199.81	10.00	456,965.25	757,675.12	32.25434342	-103.63351201
	11,300.00	34.38	339.59	11,124.93	7,437.83	-1,077.47	-1,086.21	-1,216.90	10.00	457,011.16	757,658.04	32.25436904	-103.63356631
	11,313.52	35.73	339.59	11,136.00	7,448.90	-1,070.18	-1,078.93	-1,219.61	10.00	457,018.44	757,655.33	32.25448099	-103.63357492
	11,400.00	44.38	339.59	11,202.13	7,515.03	-1,017.93	-1,026.83	-1,239.00	10.00	457,070.54	757,635.94	32.25462456	-103.63363653
	11,500.00	54.38	339.59	11,267.16	7,580.06	-946.70	-955.78	-1,265.43	10.00	457,141.59	757,609.51	32.25482030	-103.63372054
	11,600.00	64.38	339.59	11,318.03	7,630.93	-865.94	-875.23	-1,295.40	10.00	457,222.13	757,579.54	32.25504224	-103.63381579
	11,700.00	74.38	339.59	11,368.11	7,668.11	-775.26	-784.75	-1,326.74	10.00	457,308.74	757,549.64	32.25526318	-103.63391104
	11,706.23	75.00	339.59	11,354.85	7,667.75	-772.46	-781.99	-1,330.10	10.00	457,315.37	757,544.85	32.25529912	-103.63392604
	11,800.00	78.87	342.32	11,376.06	7,688.96	-685.92	-695.67	-1,359.88	5.00	457,401.68	757,515.06	32.25553692	-103.63402056
	11,900.00	83.01	345.14	11,391.80	7,704.70	-590.96	-600.90	-1,387.53	5.00	457,496.45	757,487.42	32.25579790	-103.63410799
	12,000.00	87.18	347.92	11,400.35	7,713.25	-493.93	-504.04	-1,410.72	5.00	457,593.31	757,464.23	32.25606455	-103.63418095
	12,060.49	89.70	349.59	11,402.00	7,714.90	-434.55	-444.74	-1,422.50	5.00	457,652.61	757,452.44	32.25622774	-103.63421783
	12,100.00	89.70	349.59	11,402.21	7,715.11	-395.64	-405.88	-1,429.60	0.00	457,691.47	757,445.30	32.25633469	-103.63424011
	12,145.49	89.70	349.59	11,402.45	7,715.35	-356.74	-367.88	-1,436.20	0.00	457,730.23	757,438.15	32.25644164	-103.63426239
	12,200.00	89.70	350.68	11,402.73	7,715.63	-297.07	-307.44	-1,447.20	2.00	457,788.20	757,427.78	32.25660559	-103.63429483
	12,300.00	89.70	352.68	11,403.26	7,716.16	-198.03	-208.49	-1,461.67	2.00	457,888.84	757,413.28	32.25687779	-103.63433955
	12,400.00	89.70	354.68	11,403.78	7,716.68	-98.57	-109.11	-1,472.68	2.00	457,988.23	757,402.27	32.25711516	-103.63437306
	12,500.00	89.70	356.68	11,404.31	7,717.21	1.19	-9.40	-1,480.21	2.00	458,087.93	757,394.74	32.25742535	-103.63439532
	12,600.00	89.70	358.68	11,404.83	7,717.73	10.13	90.51	-1,484.26	2.00	458,187.84	757,390.69	32.25770004	-103.63440630
	12,645.48	89.70	359.59	11,405.07	7,717.97	146.61	135.99	-1,484.94	2.00	458,233.31	757,390.00	32.25782504	-103.63440757
	12,700.00	89.70	359.59	11,405.36	7,718.26	201.13	190.48	-1,490.34	0.00	458,278.63	757,389.61	32.25794900	-103.63441088
	12,800.00	89.70	359.59	11,405.88	7,718.78	301.50	290.50	-1,496.05	0.00	458,388.52	757,388.18	32.25824987	-103.63440708
	12,900.00	89.70	359.59	11,406.40	7,719.30	401.13	390.50	-1,496.76	0.00	458,487.81	757,388.18	32.25852462	-103.63440180
	13,000.00	89.70	359.59	11,406.93	7,719.83	501.12	490.49	-1,487.48	0.00	458,587.80	757,387.47	32.25879434	-103.63440381
	13,100.00	89.70	359.59	11,407.45	7,720.35	601.12	590.49	-1,488.20	0.00	458,687.80	757,386.75	32.25907498	-103.63440852
	13,200.00	89.70	359.59	11,407.98	7,720.88	701.12	690.48	-1,488.91	0.00	458,787.79	757,386.04	32.25934970	-103.63440872
	13,300.00	89.70	359.59	11,408.50	7,721.40	801.12	790.48	-1,489.63	0.00	458,887.78	757,385.32	32.25962406	-103.63440893
	13,400.00	89.70	359.59	11,409.02	7,721.92	901.12	890.48	-1,490.34	0.00	458,987.78	757,384.61	32.25989832	-103.63440914
	13,500.00	89.70	359.59	11,409.55	7,722.45	1,001.12	990.48	-1,491.05	0.00	459,087.78	757,383.90	32.26017258	-103.63440935
	13,600.00	89.70	359.59	11,410.07	7,722.97	1,101.12	1,090.47	-1,491.77	0.00	459,187.76	757,383.17	32.26044684	-103.63440956
	13,700.00	89.70	359.59	11,410.59	7,723.49	1,201.11	1,190.47	-1,492.49	0.00	459,287.75	757,382.46	32.26072110	-103.63440977
	13,800.00	89.70	359.59	11,411.12	7,724.02	1,301.11	1,290.46	-1,493.20	0.00	459,387.74	757,381.74	32.26099536	-103.63440998
	13,900.00	89.70	359.59	11,411.64	7,724.54	1,401.11	1,390.46	-1,493.92	0.00	459,487.73	757,381.03	32.26127322	-103.63441018
	14,000.00	89.70	359.59	11,412.16	7,725.06	1,501.11	1,490.45	-1,494.64	0.00	459,587.73	757,380.31	32.26154808	-103.63441039
	14,100.00	89.70	359.59	11,412.69	7,725.59	1,601.11	1,590.45	-1,495.35	0.00	459,687.72	757,379.60	32.26182284	-103.63441060
	14,200.00	89.70	359.59	11,413.21	7,726.11	1,701.11	1,690.45	-1,496.06	0.00	459,787.71	757,378.89	32.26209760	-103.63441081
	14,300.00	89.70	359.59	11,413.74	7,726.64	1,801.11	1,790.44	-1,496.78	0.00	459,887.70	757,378.17	32.26237236	-103.63441102
	14,400.00	89.70	359.59	11,414.26	7,727.16	1,901.11	1,890.44	-1,497.50	0.00	459,987.69	757,377.45	32.26264712	-103.63441123
	14,500.00	89.70	359.59	1									

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)
	19,700.00	89.70	359.59	11,441.70	7,754.60	7,195.23	7,184.42	-1,535.44	0.00	465,281.48	757,339.51	32.27719911	-103.63442241
	19,800.00	89.70	359.59	11,442.22	7,755.12	7,295.23	7,284.42	-1,536.15	0.00	465,381.47	757,338.80	32.27747397	-103.63442262
	19,900.00	89.70	359.59	11,442.73	7,755.63	7,395.22	7,384.42	-1,536.87	0.00	465,481.46	757,338.08	32.27774883	-103.63442284
	20,000.00	89.70	359.59	11,443.25	7,756.15	7,495.22	7,484.41	-1,537.59	0.00	465,581.45	757,337.36	32.27802369	-103.63442305
	20,100.00	89.70	359.59	11,443.76	7,756.66	7,595.22	7,584.41	-1,538.31	0.00	465,681.44	757,336.64	32.27829855	-103.63442326
	20,200.00	89.70	359.59	11,444.28	7,757.18	7,695.22	7,684.40	-1,539.02	0.00	465,781.44	757,335.93	32.27857341	-103.63442348
	20,300.00	89.70	359.59	11,444.79	7,757.69	7,795.22	7,784.40	-1,539.74	0.00	465,881.43	757,335.21	32.27884827	-103.63442369
	20,400.00	89.70	359.59	11,445.31	7,758.21	7,895.22	7,884.40	-1,540.46	0.00	465,981.42	757,334.49	32.27912313	-103.63442390
	20,500.00	89.70	359.59	11,445.82	7,758.72	7,995.22	7,984.39	-1,541.17	0.00	466,081.41	757,333.77	32.27939799	-103.63442412
	20,600.00	89.70	359.59	11,446.34	7,759.24	8,095.21	8,084.39	-1,541.89	0.00	466,181.41	757,333.06	32.27967285	-103.63442433
	20,700.00	89.70	359.59	11,446.85	7,759.75	8,195.21	8,184.38	-1,542.61	0.00	466,281.40	757,332.34	32.27994771	-103.63442454
	20,800.00	89.70	359.59	11,447.37	7,760.27	8,295.21	8,284.38	-1,543.33	0.00	466,381.39	757,331.62	32.28022256	-103.63442476
	20,900.00	89.70	359.59	11,447.88	7,760.78	8,395.21	8,384.38	-1,544.04	0.00	466,481.38	757,330.91	32.28049742	-103.63442497
	21,000.00	89.70	359.59	11,448.40	7,761.30	8,495.21	8,484.37	-1,544.76	0.00	466,581.37	757,330.19	32.28077228	-103.63442518
	21,100.00	89.70	359.59	11,448.91	7,761.81	8,595.21	8,584.37	-1,545.48	0.00	466,681.37	757,329.47	32.28104714	-103.63442540
	21,200.00	89.70	359.59	11,449.43	7,762.33	8,695.21	8,684.36	-1,546.20	0.00	466,781.36	757,328.75	32.28132200	-103.63442561
	21,300.00	89.70	359.59	11,449.94	7,762.84	8,795.21	8,784.36	-1,546.91	0.00	466,881.35	757,328.04	32.28159686	-103.63442583
	21,400.00	89.70	359.59	11,450.46	7,763.36	8,895.20	8,884.36	-1,547.63	0.00	466,981.34	757,327.32	32.28187172	-103.63442604
	21,500.00	89.70	359.59	11,450.97	7,763.87	8,995.20	8,984.35	-1,548.35	0.00	467,081.34	757,326.60	32.28214658	-103.63442625
	21,600.00	89.70	359.59	11,451.49	7,764.39	9,095.20	9,084.35	-1,549.07	0.00	467,181.33	757,325.88	32.28242144	-103.63442647
Triste Draw 36-25 Federal Com 3	21,699.43	89.70	359.59	11,452.00	7,764.90	9,194.63	9,183.78	-1,549.78	0.00	467,280.75	757,325.17	32.28269673	-103.63442668

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 4 \*\*\* 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	11,000.000	1/100.000	'5 - 12.25 - 8.75 3.375 - 9.625 - 7			A001Mb_MWD		Triste Draw 36-25 Federal Com 301H / Coterra Tris
	1	11,000.000	21,699.430	1/100.000	8.75 - 6	7 - 4.5		A008Mb_MWD+IFR1+MS		Triste Draw 36-25 Federal Com 301H / Coterra Tris

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,197.915	17.500	13.375	
4,844.206	12.250	9.625	
12,208.100	8.750	7.000	
21,699.430	6.000	4.500	



Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFC 06Oct23 Proposal

Geodetic Report

Def Plan

Table with 2 columns: Report Data (left) and Survey / DLS Computation (right). Report Data includes Project Name, Date, Well Name, etc. Survey / DLS Computation includes Stationing, Vertical Section Origin, TVD Reference Elevation, etc.

Main data table with columns: Comments, MD (ft), Incl (deg), Azim (deg), TVD (ft), TVDSS (ft), VSECC (ft), AHD (ft), NS (ft), EW (ft), DelatMD (ft), DelatTVD (ft), DLS (ft/1000), BIR (ft/1000), TR (ft/1000), GTF, MTF, TF, Northing (ft), Easting (ft), Latitude (deg), Longitude (deg), Closure (ft), Closure Azimuth (deg), Directional Difficulty Index, Torquosity, ESD Ratio, Exclusion Zone Alert, DeoMtg (ft), Exclusion Zone Angle (deg), Exclusion Zone (ft), Alert Zone (ft).

Table with columns: Comments, MD, Incr, Actm, TYD, TVSSB, VSEC, AHD, NS, EW, DetAHD, DetTYD, DLS, BR, TR, GTF, MTF, TF, Northing, Easting, Latitude, Longitude, Longitude, Longitude, Closure, Directional, Torusity, EDO Ratio, Exclusion Zone, Dealing T, Exclusion Zone, Exclusion Zone, Alt Zone. Contains multiple rows of technical data for various survey points.

Survey Type: Del Pin

Survey Error Model: BSQWA Run 4 ~ 3-D 95% Confidence 2.765 mm

Expected Max Inclination (mm): Survey Tool Code, Vendor / Tool, Beeshke / Survey

Table with columns: Description, Part, MD From, MD To, EDU Freq, Hole Size, Casing Diameter, Survey Tool Code, Vendor / Tool, Beeshke / Survey. Lists equipment and tool specifications.

Comments	MD (ft)	Incl (°)	Asm (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	AHD (ft)	NS (ft)	EW (ft)	DeltaMD (ft)	DeltaTVD (ft)	DLS (ft/100ft)	BR (ft/100ft)	TR (ft/100ft)	GTF (°)	MTF (°)	TF (°)	Northing (ftUS)	Easting (ftUS)	Latitude (°)"	Longitude (°)"	Latitude (°)	Longitude (°)	Closure (ft)	Closure Azimuth (°)	Directional Difficulty Index	Tortuosity (°)	EMD Ratio	Exclusion Zone Alert	GeoMag Tr (ft)	Exclusion Zone Angle (°)	Exclusion Zone Tolerance (ft)	Alert Zone Tolerance (ft)					
		1	0.000	11,000.000	1/100,000	7.5 - 12.25 - 8.75	3.375 - 9.625 - 7																															
		1	11,000.000	21,699.430	1/100,000	8.75 - 6	7 - 4.5																															
EOD Geometry:																																						
End MD (ft)				Hole Size (in)																																		
1,197.915				17.500																																		
4,844.206				12.250																																		
12,208.100				8.750																																		
21,699.430				6.000																																		



**Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFc 06Oct25 Proposal  
Geodetic Report**

**Def Plan**

<b>Report Date:</b>	October 07, 2025 - 09:05 PM ( UTC 0 )	<b>Survey / DLS Computation:</b>	Minimum Curvature / Lubinski
<b>Client:</b>	COTERRA	<b>Vertical Section Azimuth:</b>	359.590 (GRID North)
<b>Field:</b>	NM Lea County (NAD 83)	<b>Vertical Section Origin:</b>	0.000 ft, 0.000 ft
<b>Structure / Slot:</b>	Coterra - Triste Draw 36-25 Federal Com Pad (west) / 301H	<b>TVD Reference Datum:</b>	RKB
<b>Well:</b>	Triste Draw 36-25 Federal Com 301H	<b>TVD Reference Elevation:</b>	3687.100 ft above MSL
<b>Borehole:</b>	Triste Draw 36-25 Federal Com 301H	<b>Seabed / Ground Elevation:</b>	3660.600 ft above MSL
<b>UBH / APH:</b>	Unknown / Unknown	<b>Magnetic Declination:</b>	6.930°
<b>Survey Name:</b>	Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFc 06Oct25	<b>Total Gravity Field Strength:</b>	998.437mgN (9.80665 Based)
<b>Survey Date:</b>	October 05, 2025	<b>Gravity Model:</b>	GARM
<b>Tort / AHD / DDI / ERD Ratio:</b>	148.713 / 12083.792 ft / 6.532 / 1.055	<b>Total Magnetic Field Strength:</b>	47198.374 nT
<b>Coordinate Reference System:</b>	NAD83 New Mexico State Plane, Eastern Zone, US Feet	<b>Magnetic Dip Angle:</b>	59.746°
<b>Location Lat / Long:</b>	32°15'26.7285"N, 103°37'46.5868"W	<b>Declination Date:</b>	October 06, 2025
<b>Location Grid N/E Y/X:</b>	N 458097.330 ftUS , E 758874.890 ftUS	<b>Magnetic Declination Model:</b>	HDMG 2025
<b>CRS Grid Convergence Angle:</b>	0.376°	<b>North Reference:</b>	Grid North
<b>Grid Scale Factor:</b>	0.99996329(Applied)	<b>Grid Convergence Used:</b>	0.376°
<b>Version / Patch:</b>	2025.1.0.1	<b>Total Corr Mag North-&gt;Grid North:</b>	5.705'
		<b>Local Coord Referenced To:</b>	Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
SHL [1267FSL, 2245FWL]	0.00	0.00	0.00	0.00	-3,687.10	0.00	0.00	0.00		458,097.33	758,874.89	32.25742461	-103.62960719
Nudge, Build 1.5'/100ft	600.00	0.00	225.05	600.00	-3,087.10	0.00	0.00	0.00	0.00	458,097.33	758,874.89	32.25742461	-103.62960719
Hold	1,000.00	6.00	225.05	999.27	-2,687.83	-14.88	-14.78	-14.91	1.50	458,082.55	758,860.08	32.25738424	-103.62965540
Build 2'/100ft	1,503.49	6.00	225.05	1,500.00	-2,187.10	-51.59	-51.96	-52.06	0.00	458,045.37	758,822.84	32.25728271	-103.62977667
Hold	1,753.53	11.00	225.05	1,747.21	-1,939.89	-77.51	-78.07	-78.20	2.00	458,019.26	758,796.69	32.25721144	-103.62986180
Drop 2'/100ft	9,851.19	11.00	225.05	9,499.76	5,812.66	-1,134.59	-1,142.81	-1,144.75	0.00	456,954.57	757,730.19	32.25430408	-103.63334412
Hold	10,201.23	0.00	225.05	10,046.42	6,359.32	-1,171.51	-1,180.00	-1,182.00	2.00	456,917.38	757,692.94	32.25420252	-103.63345541
KOP, Build 10'/100ft	10,956.23	0.00	225.05	10,801.42	7,114.32	-1,171.51	-1,180.00	-1,182.00	0.00	456,917.38	757,692.94	32.25420252	-103.63345541
Build & Turn 5'/100ft	11,706.23	75.00	339.59	11,354.85	7,667.75	-772.46	-781.99	-1,330.10	10.00	457,315.37	757,544.85	32.25529912	-103.63392604
Landing Point	12,060.49	89.70	349.59	11,402.00	7,714.90	-434.55	-444.74	-1,422.50	5.00	457,652.61	757,452.44	32.25622774	-103.63421783
Turn 2'/100ft	12,145.49	89.70	349.59	11,402.45	7,715.35	-350.84	-361.14	-1,437.86	0.00	457,736.20	757,437.08	32.25645780	-103.63426575
Hold	12,845.48	89.70	359.59	11,405.07	7,717.97	146.61	135.99	-1,484.94	2.00	459,233.31	757,390.00	32.25762504	-103.63440757
Turn 2'/100ft	14,845.48	89.70	359.59	11,416.59	7,729.49	2,346.58	2,335.90	-1,500.69	0.00	460,433.14	757,374.26	32.26387196	-103.63441215
Hold	15,145.47	89.70	5.59	11,418.16	7,731.06	2,646.02	2,635.45	-1,487.14	2.00	460,732.68	757,387.81	32.26469505	-103.63436201
Turn 2'/100ft	15,475.47	89.70	5.59	11,419.89	7,732.79	2,974.21	2,963.87	-1,454.99	0.00	461,060.09	757,419.96	32.26559717	-103.63425110
Hold	15,775.47	89.70	359.59	11,421.46	7,734.36	3,273.65	3,263.42	-1,441.44	2.00	461,360.63	757,433.51	32.26642026	-103.63420996
Turn 2'/100ft	15,875.47	89.70	359.59	11,421.97	7,734.87	3,373.65	3,363.42	-1,442.16	0.00	461,460.62	757,432.79	32.26669512	-103.63420117
Hold	16,175.47	89.70	353.59	11,423.53	7,736.43	3,673.10	3,662.74	-1,459.99	2.00	461,759.93	757,414.95	32.26751816	-103.63425256
Turn 2'/100ft	16,505.47	89.70	353.59	11,425.24	7,738.14	4,001.28	3,990.67	-1,496.83	0.00	462,087.85	757,378.11	32.26842017	-103.63436483
Hold	16,805.41	89.70	359.59	11,426.79	7,739.69	4,300.67	4,289.94	-1,514.67	2.00	462,397.11	757,360.28	32.26924305	-103.63441622
Triste Draw 36-25 Federal Com 301H - BHL [100FNL, 760FWL]	21,699.43	89.70	359.59	11,452.00	7,764.90	9,194.63	9,183.78	-1,549.78	0.00	467,280.75	757,325.17	32.28269473	-103.63442668

**Survey Type:** Def Plan  
**Survey Error Model:** ISOWSA Rev 4 \*\*\* 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 (deci)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	11,000.000	1/100.000	.5 - 12.25 - 8.75 3.375 - 9.625 - 7			A001Mb_MWD		Triste Draw 36-25 Federal Com 301H / Coterra Tris
	1	11,000.000	21,699.430	1/100.000	8.75 - 6	7 - 4.5		A008Mb_MWD+FR1+MS		Triste Draw 36-25 Federal Com 301H / Coterra Tris

**EOU Geometry:**

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,197.915	17.500	13.375	
4,844.206	12.250	9.625	
12,208.100	8.750	7.000	
21,699.430	6.000	4.500	



Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFc 06Oct25 Proposal Geodetic Report

Def Plan

Report Date: October 07, 2025 - 09:05 PM (UTC 0)
Client: COTERRA
Field: MM Lea County (MWD BS)
Structures / Spot: Coterra - Triste Draw 36-25 Federal Com Pad (weld) / 301H
Well: Triste Draw 36-25 Federal Com 301H
Borehole: Triste Draw 36-25 Federal Com 301H
Uplift / Aps: Unknown / Unknown
Survey Name: Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFc 06Oct25
Survey Dates: October 05, 2025
Tert AHD / DGM / ERO Ratio: 148 713 ' / 12083.792 R / 6.132 / 1.055
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: 32°15'28.2858"N, 103°37'46.9568"W
Location Grid N/E Y/Z: N = 45057.330 R/E = 758674.890 R/U/S = 0.356'
Grid Scale Factor: 0.99999359 (Applied)
Version / Package: 2025.1.1.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 509.550 (GCRD North)
Vertical Section Origin: 0.000 R, 0.000 R
TVD Reference Elevation: 3887.100 R above MSL
TVD Reference Elevation: 3887.100 R above MSL
Magnetic Declination: 6.067
Total Gravity Field Strength: 998.437mGal (9.80665 Basset)
Gravity Model: GGM05
Total Magnetic Field Strength: 47158.374 nT
Magnetic Dip Angle: 59.7467
Magnetic Declination Model: ICGEM 2025
Grid North: 0.370'
Grid Convergence Used: 0.370'
Total Com Map North-South: 5.700'
Local Coord Referenced To: Well Head

Table with columns: Comments, MD (ft), Incl (ft), Azim (ft), TVD (ft), TVDSS (ft), VSEC (ft), AHD (ft), NS (ft), EW (ft), DistAMD (ft), DistATVD (ft), DLS (ft), BR (ft), TR (ft), GTF (ft), MTF (ft), TF (ft), Northing (ft), Easting (ft), Latitude (ft), Longitude (ft), Closure (ft), Closure Allow (ft), Directional Difficulty Index, Torquosity (ft), ERO Ratio, Exclusion Zone Alert, GeoMag Tr Angle (ft), Exclusion Zone Tolerance (ft), Alert Zone Tolerance (ft)

Survey Type:

Def Plan

Survey Error Model: ISCVSA Rev 4 \*\*\* 3-D 95 % Confidence 2.7655 migma
Survey Program:

Table with columns: 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

EOU Geometry:

Table with columns: End MD (ft), Hole Size (in), Casing Size (in), Name



### Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFc 06Oct25 Anti-Collision Summary Report

**Analysis Date-24hr Time:** October 07, 2025 - 09:07 PM ( UTC 0 )  
**Client:** COTERRA  
**Field:** NM Lea County (NAD 83)  
**Structure:** Coterra - Triste Draw 36-25 Federal Com Pad (west)  
**Slot:** 301H  
**Well:** Triste Draw 36-25 Federal Com 301H  
**Borehole:** Triste Draw 36-25 Federal Com 301H  
**Scan MD Range:** 0.00ft ~ 21699.43ft

**Analysis Method:** 3D Least Distance  
**Reference Trajectory:** Coterra Triste Draw 36-25 Federal Com 301H Rev1 kFc  
**Depth Interval:** Every 10.00 Measured Depth (ft)  
**Rule Set:** NAL Procedure: D&M AntiCollision Standard S002  
**Min Pts:** Absolute minima indicated.  
**Engine Version:** 2025.1.0.1  
**Database \ Project:** Triste Draw 36-25 Federal Com 301H-COTERRA

**Trajectory Error Model:** ISCWSA Rev 4 \*\*\* 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  
**16 out of 40 are selected**

Offset Trajectory	Separation			Allow	Sep. Fact.	Breaking Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				Dev. (ft)	MD (ft)	TVD (ft)	Alert	Minor	

Results highlighted in red: Sep-Factor <= 1.5

Result highlighted in boxed, red and bold: all local minima indicated.

**Coterra Triste Draw 36-25 Federal Com 221U Rev0 kFc 06Oct25 (DefinitivePlan) - Warning Alert**

19.99	16.39	16.71	3.60	9.35	CtCt 15.00m	0.00	0.00	CtCt<=15.00m	Enter Alert
19.99	16.39	16.71	3.60	9.35	CtCt 15.00m	26.50	26.50		WRP
<b>19.99</b>	16.39	12.97	<b>3.60</b>	3.26	CtCt 15.00m	600.00	600.00		MinPts
20.23	16.39	<b>12.74</b>	3.83	3.05	CtCt 15.00m	650.00	650.00		MinPt-EOU
21.90	16.39	13.57	5.51	<b>2.93</b>	CtCt 15.00m	740.00	739.97		MinPt-SF
57.84	18.16	45.41	39.68	4.97	OSF 5.00	1200.00	1198.17	OSF>5.00	Exit Alert
180.92	54.99	143.93	125.93	5.00	OSF 5.00	3570.00	3530.31	OSF<=5.00	Enter Alert
<b>386.02</b>	178.10	266.96	207.92	3.26	OSF 5.00	10540.00	10385.19		MinPt-CtCt
386.04	178.19	<b>266.92</b>	<b>207.85</b>	3.26	OSF 5.00	10560.00	10405.19		MinPts
386.07	178.21	266.93	207.85	<b>3.26</b>	OSF 5.00	10570.00	10415.19		MinPt-SF
501.80	152.62	399.72	349.18	4.95	OSF 5.00	11220.00	11055.97	OSF>5.00	Exit Alert
<b>787.72</b>	210.51	647.06	577.22	5.63		15770.00	11421.43		MinPt-CtCt
788.44	213.80	<b>645.58</b>	574.64	5.55		15920.00	11422.20		MinPt-EOU
789.05	214.49	645.73	<b>574.56</b>	5.54		15950.00	11422.36		MinPt-ADP
799.51	302.07	597.80	497.44	3.98	OSF 5.00	16150.00	11423.40	OSF<=5.00	Enter Alert
618.68	356.80	<b>380.48</b>	<b>261.87</b>	<b>2.60</b>	OSF 5.00	16780.00	11426.66		MinPts
<b>618.66</b>	356.78	380.48	261.88	2.60	OSF 5.00	16790.00	11426.71		MinPt-CtCt
634.77	367.63	<b>389.35</b>	<b>267.14</b>	<b>2.59</b>	OSF 5.00	21120.00	11449.02		MinPts
<b>469.80</b>	360.12	229.39	109.68	1.96	OSF 5.00	21680.00	11451.90		MinPt-CtCt
469.93	360.58	<b>229.21</b>	109.35	1.96	OSF 5.00	21690.00	11451.95		MinPt-EOU
470.24	360.93	229.29	<b>109.31</b>	<b>1.96</b>	OSF 5.00	21699.43	11452.00		MinPts

**Coterra Triste Draw 36-25 Federal Com 151H Rev0 kFc 06Oct25 (DefinitivePlan) - Warning Alert**

34.99	28.40	31.71	6.60	16.85	CtCt 15.00m	0.00	0.00	CtCt<=15.00m	Enter Alert
34.99	28.40	31.71	6.60	16.85	CtCt 15.00m	26.50	26.50		WRP
<b>34.99</b>	28.40	27.97	<b>6.60</b>	5.87	CtCt 15.00m	600.00	600.00		MinPts
35.71	28.40	<b>27.23</b>	7.32	4.78	CtCt 15.00m	760.00	759.95		MinPt-EOU
53.68	28.40	36.78	25.29	<b>3.31</b>	OSF 5.00	1610.00	1605.70		MinPt-SF
330.70	99.91	263.76	230.79	5.00	OSF 5.00	5560.00	5483.74	OSF>5.00	Exit Alert
557.56	168.30	445.03	389.26	4.99	OSF 5.00	9040.00	8899.80	OSF<=5.00	Enter Alert
<b>517.38</b>	185.60	393.32	331.78	4.20	OSF 5.00	9800.00	9646.50		MinPt-CtCt
517.47	185.90	<b>393.21</b>	<b>331.58</b>	4.19	OSF 5.00	9820.00	9666.32		MinPts
517.93	186.15	393.50	331.78	<b>4.19</b>	OSF 5.00	9840.00	9686.15		MinPt-SF
597.73	181.33	476.52	416.40	4.96	OSF 5.00	10230.00	10075.19	OSF>5.00	Exit Alert
<b>1235.16</b>	114.57	1158.45	1120.59	16.30		12340.00	11403.47		MinPt-CtCt
1235.21	114.83	<b>1158.32</b>	1120.37	16.26		12360.00	11403.57		MinPt-EOU
1235.44	115.11	1158.37	<b>1120.33</b>	16.23		12380.00	11403.68		MinPt-ADP
1272.48	161.33	<b>1164.60</b>	1111.15	11.89		14940.00	11417.09		MinPt-EOU
1274.15	163.32	1164.94	<b>1110.83</b>	11.76		15020.00	11417.51		MinPt-ADP
<b>1280.97</b>	207.25	1142.48	1073.73	9.31		16760.00	11426.56		MinPt-CtCt
1304.77	353.48	<b>1068.79</b>	<b>951.29</b>	<b>5.55</b>		21699.43	11452.00		MinPts

**Coterra Triste Draw 36-25 Federal Com 302H Rev1 kFc 06Oct25 (DefinitivePlan) - Warning Alert**

39.99	32.40	36.71	7.60	19.35	CtCt 15.00m	0.00	0.00	CtCt<=15.00m	Enter Alert
39.99	32.40	36.71	7.60	19.35	CtCt 15.00m	26.50	26.50		WRP
<b>39.99</b>	32.40	32.97	<b>7.60</b>	6.75	CtCt 15.00m	600.00	600.00		MinPts
40.23	32.40	<b>32.74</b>	7.83	6.28	CtCt 15.00m	650.00	650.00		MinPt-EOU
46.20	32.40	36.84	13.80	<b>5.56</b>	CtCt 15.00m	850.00	849.82		MinPt-SF
49.11	32.40	39.28	16.72	5.60	CtCt 15.00m	900.00	899.69	CtCt>15.00m	Exit Alert
1025.55	181.13	<b>904.47</b>	<b>844.42</b>	8.53		10960.00	10805.19		MinPts
1026.14	181.30	904.94	844.84	<b>8.53</b>		11000.00	10845.15		MinPt-SF
<b>1253.55</b>	233.38	1097.64	1020.18	8.08		15875.47	11421.97		MinPt-CtCt
1253.76	234.07	<b>1097.36</b>	1019.68	8.06		15910.00	11422.15		MinPt-EOU
1254.07	234.48	1097.42	<b>1019.59</b>	8.05		15930.00	11422.26		MinPt-ADP
1320.29	379.81	<b>1066.75</b>	<b>940.48</b>	<b>5.22</b>		21699.43	11452.00		MinPts

**Coterra Triste Draw 36-25 Federal Com 211H Rev0 kFc 06Oct25 (DefinitivePlan) - Warning Alert**

40.30	32.64	37.01	7.66	19.50	CtCt 15.00m	0.00	0.00	CtCt<=15.00m	Enter Alert
40.30	32.64	37.01	7.66	19.50	CtCt 15.00m	26.50	26.50		WRP
<b>40.30</b>	32.64	33.27	<b>7.66</b>	6.80	CtCt 15.00m	600.00	600.00		MinPts
40.50	32.64	<b>33.10</b>	7.86	6.42	CtCt 15.00m	640.00	640.00		MinPt-EOU
48.94	32.64	39.40	16.31	5.77	CtCt 15.00m	870.00	869.78	CtCt>15.00m	Exit Alert

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Breaking Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
61.94	32.64		48.64	29.30	4.98	OSF 5.00	1290.00	1287.68	OSF<=5.00			Enter Alert
64.82	32.64		47.22	32.18	3.84	OSF 5.00	1730.00	1724.10				MinPt-EOU
59.46	36.16		35.03	23.30	2.49	OSF 5.00	2290.00	2273.83				MinPt-CtCt
61.32	41.74		33.16	19.58	2.22	OSF 5.00	2550.00	2529.05				MinPt-EOU
63.82	44.77		33.65	19.05	2.15	OSF 5.00	2690.00	2666.48				MinPt-ADP
68.66	48.80		35.80	19.87	2.12	OSF 5.00	2880.00	2852.99				MinPt-SF
455.76	178.79		336.23	276.96	3.84	OSF 5.00	10100.00	9945.21				MinPt-SF
458.28	179.85		338.06	278.43	3.84	OSF 5.00	10201.23	10046.42				MinPt-SF
604.46	183.03		482.11	421.43	4.97	OSF 5.00	11010.00	10855.11	OSF>5.00			Exit Alert
713.06	125.20		629.27	587.86	8.60		12600.00	11404.83				MinPt-CtCt
725.38	166.62		613.97	558.76	6.56		14960.00	11417.19				MinPt-EOU
727.45	169.07		614.40	558.37	6.48		15050.00	11417.66				MinPt-ADP
733.56	212.01		591.89	521.55	5.21		16760.00	11426.56				MinPt-CtCt
735.10	221.32		587.23	513.78	5.00	OSF 5.00	17100.00	11428.31	OSF<=5.00			Enter Alert
757.55	358.05		518.52	399.50	3.18	OSF 5.00	21699.43	11452.00				MinPts

Coterra Triste Draw 36-25 Federal Com 401H - Corrected MWD to 22803ft (DefinitiveSurvey) - Warning Alert

134.31	32.81	131.72	101.50	94.24			0.00	0.00				Surface
134.14	32.81	131.55	101.33	94.00			26.50	26.50				WRP
80.22	32.81	63.11	47.41	4.91		OSF 5.00	1670.00	1665.00	OSF<=5.00			Enter Alert
52.62	32.81	30.66	19.81	2.46		OSF 5.00	2128.86	2115.65				MinPts
52.72	32.81	30.57	19.91	2.44		OSF 5.00	2150.00	2136.40				MinPt-EOU
53.54	33.38	30.96	20.16	2.43		OSF 5.00	2200.00	2185.48				MinPt-SF
141.86	58.73	102.38	83.13	3.66		OSF 5.00	3760.00	3716.82				MinPt-SF
302.28	91.40	241.02	210.88	5.00		OSF 5.00	5610.00	5532.82	OSF>5.00			Exit Alert
605.39	147.59	506.67	457.80	6.18			8770.00	8634.76				MinPt-SF
662.96	168.04	550.61	494.93	5.94			9890.00	9735.80				MinPt-SF
695.74	180.25	575.25	515.49	5.81			11440.00	11229.72				MinPt-SF
693.93	179.57	573.89	514.37	5.82			11490.00	11261.26				MinPt-ADP
693.80	179.43	573.85	514.37	5.82			11500.00	11267.16				MinPt-EOU
693.74	179.29	573.89	514.45	5.83			11510.00	11272.91				MinPt-CtCt
1110.77	121.01	1029.77	989.76	13.87			12600.00	11404.83				MinPt-CtCt
1106.82	126.64	1022.07	980.18	13.20			12810.00	11405.93				MinPt-SF
1101.19	125.11	1017.45	976.08	13.30			12950.00	11406.67				MinPt-ADP
1101.11	125.02	1017.44	976.09	13.30			12960.00	11406.72				MinPt-EOU
1101.08	124.94	1017.46	976.14	13.31			12970.00	11406.77				MinPt-CtCt
1101.31	125.02	1017.63	976.29	13.31			13010.00	11406.98				MinPt-ADP
1105.72	130.06	1018.69	975.67	12.84			13360.00	11408.81				MinPt-EOU
1105.80	130.14	1018.71	975.66	12.83			13370.00	11408.87				MinPt-ADP
1095.39	148.73	995.90	946.66	11.11			14390.00	11414.21				MinPt-CtCt
1093.43	152.60	991.37	940.83	10.81			14570.00	11415.15				MinPt-CtCt
1084.75	165.36	974.18	919.39	9.89			15070.00	11417.77				MinPt-CtCt
1084.90	165.74	974.08	919.16	9.87			15100.00	11417.93				MinPt-EOU
1085.02	165.87	974.11	919.15	9.86			15110.00	11417.98				MinPt-ADP
1086.91	168.35	974.35	918.56	9.73			15210.00	11418.50				MinPt-ADP
1096.49	175.81	978.95	920.67	9.40			15490.00	11419.97				MinPt-EOU
1096.78	176.15	979.01	920.63	9.38			15520.00	11420.12				MinPt-ADP
1099.72	180.60	979.00	919.13	9.18			15775.47	11421.46				MinPt-EOU
1099.99	180.91	979.05	919.08	9.16			15800.00	11421.58				MinPt-ADP
1063.53	209.51	923.52	854.01	7.64			16880.00	11427.18				MinPt-CtCt
1065.30	213.93	922.36	851.38	7.50			17070.00	11428.16				MinPt-EOU
1066.16	214.97	922.52	851.19	7.47			17120.00	11428.41				MinPt-ADP
1069.22	231.75	914.39	837.47	6.94			17680.00	11431.30				MinPt-CtCt
1061.29	253.29	892.10	808.00	6.30			18430.00	11435.16				MinPt-CtCt
1063.43	261.61	888.69	801.81	6.11			18740.00	11436.76				MinPt-EOU
1063.93	262.21	888.79	801.72	6.10			18770.00	11436.91				MinPt-ADP
1080.88	284.70	890.76	796.19	5.71			19490.00	11440.62				MinPt-CtCt
1078.54	293.86	882.31	784.68	5.52			19800.00	11442.22				MinPt-CtCt
1078.63	294.12	882.22	784.50	5.51			19820.00	11442.32				MinPt-EOU
1078.84	294.37	882.26	784.46	5.51			19840.00	11442.42				MinPt-ADP
1060.66	316.99	849.01	743.68	5.03			20560.00	11446.13				MinPt-CtCt
1060.76	317.24	848.94	743.52	5.03			20580.00	11446.23				MinPt-EOU
1060.86	317.36	848.96	743.50	5.03			20590.00	11446.29				MinPt-ADP
1061.34	317.85	849.11	743.49	5.02			20620.00	11446.44				MinPt-ADP
1065.66	320.50	851.67	745.17	5.00		OSF 5.00	20750.00	11447.11	OSF<=5.00			Enter Alert
1066.39	332.43	844.44	733.96	4.82		OSF 5.00	21060.00	11448.71				MinPt-CtCt
1067.44	346.79	835.91	720.65	4.63		OSF 5.00	21530.00	11451.13				MinPt-CtCt
1069.06	351.32	834.52	717.74	4.57		OSF 5.00	21699.43	11452.00				MinPts

Coterra Triste Draw 36-25 Federal Com 351H - Corrected MWD to 22493ft (DefinitiveSurvey) - Warning Alert

152.46	32.81	149.76	119.65	106.99			0.00	0.00				Surface
152.27	32.81	149.57	119.47	106.74			26.50	26.50				WRP
147.49	32.81	141.14	114.68	28.90			570.00	570.00				MinPts
147.49	32.81	140.86	114.68	27.35			600.00	600.00				MinPts
147.89	32.81	140.41	115.08	23.68			690.00	689.99				MinPt-EOU
153.52	32.81	142.20	120.72	15.16			1090.00	1088.78				MinPt-EOU
109.42	33.59	86.69	75.83	4.99		OSF 5.00	2170.00	2156.03	OSF<=5.00			Enter Alert
89.31	46.20	58.18	43.11	2.93		OSF 5.00	2891.06	2863.84				MinPt-CtCt
89.80	47.77	57.63	42.03	2.85		OSF 5.00	2990.00	2960.97				MinPt-EOU
91.07	50.24	57.25	40.83	2.74		OSF 5.00	3150.00	3118.03				MinPt-EOU
93.19	52.90	57.59	40.29	2.66		OSF 5.00	3330.00	3294.72				MinPt-ADP
95.83	54.82	58.96	41.01	2.64		OSF 5.00	3460.00	3422.33				MinPt-SF
98.86	60.07	58.48	38.79	2.48		OSF 5.00	3810.00	3765.90				MinPt-CtCt
99.18	61.03	58.17	38.15	2.45		OSF 5.00	3880.00	3834.61				MinPt-EOU
99.75	61.72	58.27	38.03	2.44		OSF 5.00	3930.00	3883.69				MinPt-ADP
102.46	64.63	59.04	37.83	2.39		OSF 5.00	4130.00	4080.02				MinPt-EOU
102.68	64.91	59.08	37.77	2.39		OSF 5.00	4150.00	4099.65				MinPt-ADP
103.23	65.32	59.35	37.90	2.38		OSF 5.00	4180.00	4129.10				MinPt-SF
270.78	114.36	194.21	156.42	3.57		OSF 5.00	7190.00	7083.79				MinPt-SF
282.72	119.34	202.83	163.38	3.57		OSF 5.00	7480.00	7368.46				MinPt-SF

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Breaking Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
296.44	123.93	213.50	172.51	3.60	OSF 5.00	7750.00	7633.50					MinPt-SF
321.72	133.72	232.24	187.99	3.62	OSF 5.00	8320.00	8193.03					MinPt-ADP
201.53	167.46	89.57	34.08	1.81	OSF 5.00	10180.00	10025.19					MinPt-CtCt
201.81	168.05	89.44	33.75	1.80	OSF 5.00	10230.00	10075.19					MinPt-EOU
202.01	170.80	87.82	31.21	1.78	OSF 5.00	10490.00	10335.19					MinPt-CtCt
202.42	172.09	87.36	30.32	1.77	OSF 5.00	10590.00	10435.19					MinPt-EOU
202.74	172.50	87.42	30.25	1.76	OSF 5.00	10620.00	10465.19					MinPt-ADP
193.89	174.72	77.08	19.17	1.67	OSF 5.00	11160.00	11000.92					MinPt-SF
193.65	174.50	76.99	19.15	1.67	OSF 5.00	11170.00	11010.27					MinPt-ADP
193.49	174.28	76.98	19.21	1.67	OSF 5.00	11180.00	11019.55					MinPt-EOU
193.42	174.06	77.06	19.37	1.67	OSF 5.00	11190.00	11028.76					MinPt-CtCt
605.46	183.37	482.88	422.09	4.97	OSF 5.00	11890.00	11390.55	OSF>5.00				Exit Alert
763.80	142.49	668.48	621.31	8.09		13210.00	11408.03					MinPt-CtCt
763.33	145.60	665.94	617.73	7.91		13390.00	11408.97					MinPt-CtCt
764.67	150.86	663.77	613.81	7.64		13690.00	11410.54					MinPt-EOU
763.64	161.45	655.68	602.19	7.13		14180.00	11413.11					MinPt-CtCt
763.70	165.08	653.32	598.62	6.97		14350.00	11414.00					MinPt-CtCt
737.99	203.99	601.67	534.00	5.45		16080.00	11423.04					MinPt-CtCt
738.35	205.10	601.29	533.25	5.42		16130.00	11423.29					MinPt-EOU
738.90	205.80	601.37	533.10	5.40		16160.00	11423.45					MinPt-ADP
742.84	212.83	600.63	530.01	5.25		16360.00	11424.49					MinPt-EOU
743.25	213.27	600.74	529.98	5.24		16380.00	11424.59					MinPt-ADP
755.49	226.90	603.89	528.59	5.01		16840.00	11426.97					MinPt-EOU
755.91	227.74	603.75	528.17	4.99	OSF 5.00	16870.00	11427.13	OSF<=5.00				Enter Alert
755.33	237.62	596.59	517.71	4.78	OSF 5.00	17200.00	11428.82					MinPt-CtCt
747.81	277.00	562.82	470.81	4.06	OSF 5.00	18540.00	11435.73					MinPt-CtCt
733.08	326.88	514.84	406.20	3.37	OSF 5.00	20220.00	11444.38					MinPt-CtCt
732.31	334.88	508.73	397.43	3.29	OSF 5.00	20480.00	11445.72					MinPt-CtCt
722.72	355.50	485.39	367.21	3.05	OSF 5.00	21160.00	11449.22					MinPt-CtCt
725.73	366.05	481.37	359.68	2.98	OSF 5.00	21520.00	11451.08					MinPt-EOU
728.87	372.04	480.52	356.83	2.94	OSF 5.00	21699.43	11452.00					MinPts
30-025-40578 - Triste Draw 36 State 6H - Gyro+MWD to 11368ft (DefinitiveSurvey) - Warning Alert												
3809.36	32.81	3805.97	3776.55	2691.10		0.00	0.00					Surface
3809.32	32.81	3805.92	3776.51	2679.10		26.50	26.50					WRP
3808.93	32.81	3804.89	3776.12	1848.20		200.00	200.00					MinPts
3810.85	32.81	3802.98	3778.04	645.92		640.00	640.00					MinPt-EOU
4526.24	148.93	4426.41	4377.31	46.07		10350.00	10195.19					MinPt-ADP
529.66	161.25	421.66	368.41	4.96	OSF 5.00	15320.00	11419.08	OSF<=5.00				Enter Alert
179.79	179.44	59.66	0.35	1.50	OSF 5.00	15828.22	11421.73					MinPts
532.81	162.71	423.84	370.10	4.94	OSF 5.00	16340.00	11424.38	OSF>5.00				Exit Alert
5869.72	170.83	5755.34	5698.89	51.98		21699.43	11452.00					TD
30-025-40578-0100 - Triste Draw 36 State 6H ST01 - MWD 10466 to 15038ft (DefinitiveSurvey) - Warning Alert												
3809.36	32.81	3805.97	3776.55	2691.10		0.00	0.00					Surface
3809.32	32.81	3805.92	3776.51	2679.10		26.50	26.50					WRP
3808.93	32.81	3804.89	3776.12	1848.20		200.00	200.00					MinPts
3810.85	32.81	3802.98	3778.04	645.92		640.00	640.00					MinPt-EOU
630.42	191.94	501.92	438.47	4.96	OSF 5.00	10710.00	10555.19	OSF<=5.00				Enter Alert
410.82	238.87	251.03	171.94	2.59	OSF 5.00	11290.00	11116.63					MinPt-SF
408.38	237.04	249.82	171.34	2.59	OSF 5.00	11320.00	11141.24					MinPt-ADP
407.81	236.30	249.73	171.51	2.60	OSF 5.00	11330.00	11149.24					MinPt-EOU
406.66	232.26	251.28	174.40	2.63	OSF 5.00	11373.98	11183.13					MinPt-CtCt
438.34	143.47	342.15	294.86	4.62	OSF 5.00	12170.00	11402.58					MinPt-ADP
437.50	142.59	341.90	294.91	4.64	OSF 5.00	12190.00	11402.68					MinPt-EOU
429.74	135.03	339.22	294.71	4.81	OSF 5.00	12410.00	11403.84					MinPt-ADP
428.87	134.03	339.02	294.85	4.84	OSF 5.00	12460.00	11404.10					MinPt-EOU
428.50	133.01	339.32	295.49	4.87	OSF 5.00	12530.00	11404.47					MinPt-CtCt
432.38	130.78	344.69	301.60	5.00	OSF 5.00	12770.00	11405.72	OSF>5.00				Exit Alert
419.33	126.41	334.55	292.91	5.02		13760.00	11410.91					MinPt-CtCt
419.40	126.65	334.47	292.75	5.01		13790.00	11411.06					MinPt-EOU
419.47	126.73	334.49	292.74	5.01		13800.00	11411.12					MinPt-ADP
420.01	127.08	334.79	292.93	5.00	OSF 5.00	13840.00	11411.33	OSF<=5.00				Enter Alert
420.41	127.24	335.08	293.17	5.00	OSF 5.00	13860.00	11411.43					MinPt-SF
427.53	129.98	340.38	297.55	4.97	OSF 5.00	14330.00	11413.89					MinPt-SF
435.38	131.69	347.09	303.69	5.00	OSF 5.00	14630.00	11415.46	OSF>5.00				Exit Alert
438.20	132.51	349.36	305.69	5.00	OSF 5.00	14760.00	11416.14	OSF<=5.00				Enter Alert
447.00	136.08	355.78	310.91	4.97	OSF 5.00	15090.00	11417.87					MinPt-SF
447.16	137.66	354.89	309.50	4.91	OSF 5.00	15210.00	11418.50					MinPt-CtCt
447.50	138.70	354.53	308.79	4.88	OSF 5.00	15250.00	11418.71					MinPt-EOU
447.77	139.06	354.57	308.71	4.87	OSF 5.00	15260.00	11418.76					MinPt-ADP
451.00	140.87	356.59	310.13	4.84	OSF 5.00	15310.00	11419.02					MinPt-SF
488.15	147.63	389.23	340.52	5.00	OSF 5.00	15510.00	11420.07	OSF>5.00				Exit Alert
5937.16	173.60	5820.93	5763.57	51.74		21699.43	11452.00					TD
30-025-40184 - Triste Draw 36 State 1H - Gyro+MWD to 13942ft - A (DefinitiveSurvey) - Warning Alert												
4131.61	32.81	4128.21	4098.80	2919.55		0.00	0.00					Surface
4131.60	32.81	4128.20	4098.79	2911.37		26.50	26.50					WRP
4129.27	32.81	4121.12	4096.46	668.69		680.00	679.99					MinPts
4129.73	32.81	4120.67	4096.92	583.14		780.00	779.93					MinPt-EOU
781.63	236.52	623.41	545.11	4.98	OSF 5.00	9480.00	9331.71	OSF<=5.00				Enter Alert
730.48	243.91	567.34	486.57	4.51	OSF 5.00	9730.00	9577.31					MinPt-SF
730.26	243.83	567.17	486.43	4.51	OSF 5.00	9740.00	9587.18					MinPts
730.19	243.73	567.17	486.46	4.51	OSF 5.00	9749.48	9596.55					MinPt-CtCt
769.80	233.48	613.61	536.32	4.97	OSF 5.00	9980.00	9825.41	OSF>5.00				Exit Alert
1912.76	135.99	1821.60	1776.77	21.32		12250.00	11403.00					MinPt-ADP
1912.67	135.89	1821.58	1776.78	21.33		12260.00	11403.05					MinPt-EOU
1912.59	135.71	1821.62	1776.88	21.36		12280.00	11403.15					MinPt-CtCt
1911.84	131.88	1823.42	1779.96	21.98		12480.00	11404.20					MinPt-ADP
1911.79	131.81	1823.42	1779.98	21.99		12490.00	11404.26					MinPt-EOU

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Breaking Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
1911.23	130.61	1823.65	1780.62	22.19			12580.00	11404.73				MinPts
1911.22	130.58	1823.67	1780.64	22.19			12590.00	11404.78				MinPt-CtCt
1910.45	128.75	1824.12	1781.70	22.50			12770.00	11405.72				MinPts
1910.47	128.77	1824.12	1781.69	22.50			12780.00	11405.78				MinPt-ADP
1912.14	129.08	1825.58	1783.06	22.46			12870.00	11406.25				MinPt-SF
1932.79	124.14	1849.53	1808.65	23.62			13770.00	11410.96				MinPt-SF
1929.33	123.79	1846.30	1805.54	23.65			14080.00	11412.58				MinPt-CtCt
1929.41	124.03	1846.22	1805.38	23.60			14100.00	11412.69				MinPt-EOU
1929.63	124.28	1846.27	1805.35	23.56			14120.00	11412.79				MinPt-ADP
1932.31	125.48	1848.15	1806.82	23.36			14210.00	11413.26				MinPt-SF
1935.30	125.49	1851.14	1809.81	23.39			14420.00	11414.36				MinPt-SF
1948.79	130.87	1861.05	1817.93	22.58			15010.00	11417.45				MinPt-SF
1957.32	133.18	1868.04	1824.14	22.28			15230.00	11418.61				MinPt-SF
1966.43	136.89	1874.67	1829.54	21.77			15490.00	11419.97				MinPt-SF
1968.05	137.87	1875.64	1830.19	21.63			15580.00	11420.44				MinPt-ADP
1969.42	139.96	1875.61	1829.46	21.32			15710.00	11421.12				MinPt-EOU
1970.49	141.23	1875.84	1829.26	21.14			15780.00	11421.48				MinPt-ADP
2088.30	159.98	1981.14	1928.32	19.75			16590.00	11425.68				MinPt-SF
6005.82	194.56	5875.61	5811.26	46.65			21699.43	11452.00				TD
Coterra Triste Draw 36-25 Federal Com 212H Rev0 kFc 06Oct25 (DefinitivePlan) - Pass												
53.14	32.81	49.85	20.33	25.92			0.00	0.00				Surface
53.14	32.81	49.85	20.33	25.92			26.50	26.50				WRP
53.14	32.81	46.11	20.33	9.04			600.00	600.00				MinPts
53.35	32.81	45.95	20.54	8.52			640.00	640.00				MinPt-EOU
62.67	32.81	53.12	29.86	7.43			870.00	869.78				MinPt-SF
698.86	158.83	592.65	540.03	6.63			9080.00	8939.06				MinPt-SF
795.60	174.60	678.87	621.00	6.87			10370.00	10215.19				MinPt-EOU
795.62	174.62	678.88	621.00	6.86			10380.00	10225.19				MinPt-ADP
795.66	174.64	678.91	621.03	6.86			10400.00	10245.19				MinPt-SF
1234.74	209.54	1094.72	1025.20	8.87			15770.00	11421.43				MinPt-CtCt
1235.46	212.86	1093.23	1022.61	8.74			15920.00	11422.20				MinPt-EOU
1235.84	213.31	1093.30	1022.52	8.72			15940.00	11422.31				MinPt-ADP
1237.25	217.15	1092.15	1020.10	8.58			16170.00	11423.50				MinPt-CtCt
1234.59	235.91	1077.00	998.69	7.88			16900.00	11427.28				MinPt-CtCt
1235.56	240.47	1074.91	995.08	7.73			17080.00	11428.21				MinPt-EOU
1236.40	241.53	1075.05	994.87	7.70			17120.00	11428.41				MinPt-ADP
1307.14	368.46	1061.18	938.69	5.33			21699.43	11452.00				MinPts
Coterra Triste Draw 36-25 Federal Com 152H Rev0 kFc 06Oct25 (DefinitivePlan) - Pass												
69.45	32.81	66.16	36.64	34.07			0.00	0.00				Surface
69.45	32.81	66.16	36.64	34.07			26.50	26.50				WRP
69.45	32.81	62.42	36.64	11.88			600.00	600.00				MinPts
69.65	32.81	62.26	36.84	11.19			640.00	640.00				MinPt-EOU
85.08	32.81	74.76	52.27	9.28			950.00	949.51				MinPt-SF
226.89	33.91	203.96	192.98	10.29			2250.00	2234.56				MinPt-SF
1958.13	180.70	1837.33	1777.43	16.34			14770.00	11416.20				MinPt-EOU
1958.79	181.51	1837.46	1777.28	16.27			14810.00	11416.41				MinPt-ADP
1963.19	188.50	1837.19	1774.68	15.70			15160.00	11418.24				MinPt-CtCt
1963.62	189.87	1836.72	1773.75	15.59			15230.00	11418.61				MinPt-EOU
1964.27	190.65	1836.84	1773.61	15.53			15270.00	11418.82				MinPt-ADP
1966.51	246.29	1801.99	1720.22	12.02			17600.00	11430.89				MinPt-CtCt
1979.62	362.25	1737.79	1617.37	8.22			21699.43	11452.00				MinPts
Coterra Triste Draw 36-25 Federal Com 402H - Corrected MWD to 22603ft (DefinitiveSurvey) - Pass												
171.01	32.81	168.42	138.20	120.18			0.00	0.00				Surface
170.85	32.81	168.26	138.04	119.96			7.30	7.30				MinPts
170.86	32.81	168.27	138.05	119.96			26.50	26.50				WRP
173.52	32.81	166.53	140.71	29.69			650.00	650.00				MinPts
174.00	32.81	166.09	141.19	25.66			750.00	749.96				MinPt-EOU
285.84	53.69	249.72	232.15	8.11			3410.00	3373.25				MinPt-EOU
286.28	54.21	249.82	232.07	8.04			3440.00	3402.70				MinPt-ADP
322.02	70.44	274.74	251.58	6.93			4400.00	4345.06				MinPt-SF
340.40	75.33	289.86	265.08	6.85			4680.00	4619.91				MinPt-SF
376.10	89.14	316.34	286.96	6.38			5450.00	5375.76				MinPt-ADP
468.61	137.74	376.45	330.87	5.13			8190.00	8065.41				MinPt-SF
601.02	174.83	484.14	426.19	5.18			10940.00	10785.19				MinPt-CtCt
601.04	175.03	484.03	426.01	5.17			10960.00	10805.19				MinPt-EOU
601.13	175.13	484.04	425.99	5.17			10970.00	10815.19				MinPt-ADP
602.42	175.76	484.91	426.65	5.16			11020.00	10865.06				MinPt-SF
1374.54	161.22	1266.73	1213.32	12.86			12770.00	11405.72				MinPt-CtCt
1374.86	162.15	1266.43	1212.71	12.79			12870.00	11406.25				MinPt-EOU
1373.72	165.11	1263.32	1208.61	12.55			13140.00	11407.66				MinPt-CtCt
1373.82	165.36	1263.26	1208.46	12.53			13170.00	11407.82				MinPt-EOU
1373.90	165.45	1263.28	1208.46	12.52			13180.00	11407.87				MinPt-ADP
1374.89	167.40	1262.96	1207.49	12.38			13320.00	11408.60				MinPt-EOU
1375.07	167.62	1263.00	1207.46	12.37			13340.00	11408.71				MinPt-ADP
1383.68	176.00	1266.02	1207.68	11.85			13850.00	11411.38				MinPt-CtCt
1383.81	176.42	1265.87	1207.39	11.82			13890.00	11411.59				MinPt-EOU
1383.89	176.52	1265.88	1207.37	11.82			13900.00	11411.64				MinPt-ADP
1371.39	190.30	1244.19	1181.08	10.86			14680.00	11415.72				MinPt-CtCt
1325.04	212.97	1182.74	1112.07	9.37			15790.00	11421.53				MinPt-CtCt
1321.33	220.14	1174.24	1101.18	9.04			16050.00	11422.88				MinPt-CtCt
1321.77	221.49	1173.78	1100.28	8.98			16110.00	11423.19				MinPt-EOU
1322.37	222.18	1173.92	1100.19	8.96			16140.00	11423.35				MinPt-ADP
1352.93	253.48	1183.61	1099.45	8.03			17390.00	11429.80				MinPt-CtCt
1352.66	263.32	1176.78	1089.33	7.73			17760.00	11431.71				MinPt-CtCt
1349.49	272.50	1167.50	1076.99	7.45			18110.00	11433.51				MinPt-CtCt
1349.75	273.29	1167.23	1076.45	7.43			18160.00	11433.77				MinPt-EOU
1350.03	273.61	1167.30	1076.42	7.42			18180.00	11433.87				MinPt-ADP

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Breaking Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
1351.60	276.77		1166.76	1074.83	7.35		18290.00	11434.44				MinPt-EOU
1352.04	277.30		1166.85	1074.75	7.33		18320.00	11434.59				MinPt-ADP
1344.38	293.41		1148.44	1050.97	6.89		18890.00	11437.53				MinPt-CtCt
1344.57	294.04		1148.21	1050.53	6.88		18930.00	11437.74				MinPt-EOU
1346.15	296.74		1148.00	1049.41	6.82		19040.00	11438.30				MinPt-EOU
1347.75	298.66		1148.32	1049.10	6.79		19120.00	11438.71				MinPt-ADP
1354.61	325.42		1137.33	1029.19	6.26		20030.00	11443.40				MinPt-CtCt
1354.23	331.55		1132.87	1022.68	6.14		20240.00	11444.48				MinPt-CtCt
1346.51	353.83		1110.29	992.68	5.72		21000.00	11448.40				MinPt-CtCt
1346.65	354.31		1110.12	992.35	5.71		21030.00	11448.55				MinPt-EOU
1346.89	354.61		1110.16	992.28	5.71		21050.00	11448.65				MinPt-ADP
1350.73	358.46		1111.43	992.28	5.66		21200.00	11449.43				MinPt-ADP
1356.19	363.76		1113.35	992.43	5.60		21380.00	11450.35				MinPt-EOU
1356.86	374.37		1106.95	982.49	5.45		21690.00	11451.95				MinPt-SF
1356.80	374.33		1106.92	982.47	5.45		21699.43	11452.00				MinPts

30-025-40665 - Triste Draw 36 State 2H - MWD to 13691ft (DefinitiveSurvey) - Pass

3991.72	32.81	3988.33	3958.92	2820.65			0.00	0.00				Surface
3991.71	32.81	3988.32	3958.90	2812.81			26.50	26.50				WRP
3991.55	32.81	3987.58	3958.74	2003.56			200.00	200.00				MinPts
3991.57	32.81	3983.76	3958.76	684.39			620.00	620.00				MinPts
3991.90	32.81	3983.42	3959.09	614.03			690.00	689.99				MinPt-EOU
952.33	159.37	845.54	792.96	9.04			9908.91	9754.61				MinPt-CtCt
952.33	159.38	845.54	792.95	9.04			9910.00	9755.69				MinPt-EOU
952.38	159.44	845.54	792.93	9.04			9920.00	9765.64				MinPt-ADP
952.71	159.55	845.80	793.16	9.03			9940.00	9785.55				MinPt-SF
1613.58	137.99	1521.09	1475.59	17.72			12220.00	11402.84				MinPt-CtCt
1613.77	138.56	1520.90	1475.22	17.65			12250.00	11403.00				MinPt-EOU
1613.94	138.74	1520.95	1475.20	17.62			12260.00	11403.05				MinPt-ADP
1618.65	140.67	1524.37	1477.98	17.43			12360.00	11403.57				MinPt-SF
1707.93	129.08	1621.37	1578.85	20.06			13780.00	11411.01				MinPt-SF
1645.29	141.06	1550.75	1504.23	17.67			15860.00	11421.89				MinPt-CtCt
1645.55	141.90	1550.46	1503.66	17.56			15890.00	11422.05				MinPt-EOU
1646.00	142.47	1550.52	1503.53	17.50			15910.00	11422.15				MinPt-ADP
1751.54	160.44	1644.08	1591.10	16.52			16480.00	11425.11				MinPt-SF
5754.94	196.75	5623.27	5568.19	44.20			21699.43	11452.00				TD

30-025-40667 - Triste Draw 36 State 5H - Gyro+MWD to 13910ft (DefinitiveSurvey) - Pass

3695.67	32.81	3692.28	3662.86	2610.09			0.00	0.00				Surface
3695.54	32.81	3692.14	3662.73	2599.27			26.50	26.50				WRP
3690.80	32.81	3682.75	3657.99	608.23			640.00	640.00				MinPts
3691.07	32.81	3682.46	3658.26	556.51			700.00	699.99				MinPt-EOU
1161.04	239.12	1001.09	921.92	7.32			9734.18	9581.44				MinPt-CtCt
1161.22	239.62	1000.93	921.60	7.31			9760.00	9606.93				MinPt-EOU
1161.38	239.79	1000.98	921.59	7.30			9770.00	9616.82				MinPt-ADP
1163.00	240.47	1002.15	922.53	7.29			9820.00	9666.32				MinPt-SF
2095.74	170.40	1981.64	1925.34	18.60			12950.00	11406.67				MinPt-ADP
2093.52	168.05	1980.98	1925.46	18.84			13100.00	11407.45				MinPt-ADP
2093.27	167.76	1980.93	1925.51	18.87			13130.00	11407.61				MinPt-EOU
2093.10	167.28	1981.08	1925.82	18.92			13180.00	11407.87				MinPt-CtCt
2091.45	162.10	1982.88	1929.34	19.52			13460.00	11409.34				MinPt-ADP
2091.02	161.59	1982.80	1929.43	19.58			13510.00	11409.60				MinPt-EOU
2067.43	153.47	1964.62	1913.96	20.39			14260.00	11413.53				MinPt-SF
2067.41	153.46	1964.60	1913.95	20.39			14270.00	11413.58				MinPts
2067.01	152.65	1964.75	1914.36	20.50			14420.00	11414.36				MinPt-CtCt
2067.03	152.72	1964.71	1914.31	20.49			14440.00	11414.47				MinPt-EOU
2067.06	152.76	1964.72	1914.30	20.48			14450.00	11414.52				MinPt-ADP
2068.27	153.15	1965.67	1915.12	20.44			14550.00	11415.04				MinPt-SF
2063.83	152.54	1961.64	1911.29	20.48			15100.00	11417.93				MinPts
2018.73	155.12	1914.81	1863.60	19.70			15650.00	11420.80				MinPt-CtCt
2018.90	155.73	1914.59	1863.18	19.62			15680.00	11420.96				MinPt-EOU
2019.08	155.93	1914.62	1863.14	19.60			15690.00	11421.01				MinPt-ADP
2098.22	167.74	1985.89	1930.47	18.92			16200.00	11423.66				MinPt-SF
6066.20	199.74	5932.54	5866.47	45.89			21699.43	11452.00				TD

30-025-40343 - Triste Draw 36 State 4H - Gyro+MWD to 15427ft - A (DefinitiveSurvey) - Pass

3694.15	32.81	3690.75	3661.34	2610.31			0.00	0.00				MinPts
3694.16	32.81	3690.77	3661.36	2607.37			26.50	26.50				WRP
3694.09	32.81	3686.11	3661.28	615.52			630.00	630.00				MinPts
3694.34	32.81	3685.88	3661.53	569.70			680.00	679.99				MinPt-EOU
1264.93	278.05	1079.02	986.88	6.85			11087.49	10931.54				MinPt-CtCt
1264.93	278.08	1079.01	986.85	6.85			11090.00	10933.98				MinPt-EOU
1265.01	278.19	1079.01	986.82	6.85			11100.00	10943.69				MinPt-ADP
1265.49	278.35	1079.39	987.15	6.83			11120.00	10962.97				MinPt-SF
1573.62	234.05	1417.08	1339.56	10.14			12730.00	11405.51				MinPt-EOU
1573.03	231.05	1418.50	1341.98	10.27			12860.00	11406.20				MinPt-CtCt
1556.33	211.16	1415.06	1345.18	11.12			13550.00	11409.81				MinPt-ADP
1542.49	204.58	1405.60	1337.91	11.38			13850.00	11411.38				MinPt-ADP
1542.07	204.06	1405.53	1338.02	11.41			13860.00	11411.43				MinPt-EOU
1516.39	195.21	1385.75	1321.18	11.73			14100.00	11412.69				MinPt-SF
1490.86	192.96	1361.72	1297.90	11.67			14300.00	11413.74				MinPt-SF
1368.50	194.03	1238.64	1174.46	10.65			15580.00	11420.44				MinPt-CtCt
1368.55	194.12	1238.64	1174.43	10.65			15590.00	11420.49				MinPts
1372.88	195.18	1242.26	1177.70	10.62			15700.00	11421.06				MinPt-SF
5812.43	199.33	5679.04	5613.10	44.06			21699.43	11452.00				TD

30-025-41150-0100 - Triste Draw 25 Federal 3H ST01 - MWD to 15359ft - A (DefinitiveSurvey) - Pass

4410.54	32.81	4407.15	4377.73	3116.79			0.00	0.00				MinPts
4410.62	32.81	4407.22	4377.81	3115.24			26.50	26.50				WRP
4419.19	32.81	4411.74	4386.38	807.96			610.00	610.00				MinPt-EOU

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Breaking Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
	5611.28	164.81	5500.87	5446.47	51.56		10590.00	10435.19				MinPt-CtCt
	5611.37	165.11	5500.76	5446.26	51.47		10630.00	10475.19				MinPt-EOU
	5611.49	165.26	5500.78	5446.23	51.42		10650.00	10495.19				MinPt-ADP
	1319.12	230.51	1164.95	1088.61	8.63		18000.00	11432.95				MinPt-CtCt
	1320.03	233.34	1163.97	1086.69	8.53		18110.00	11433.51				MinPt-EOU
	1301.48	293.19	1105.52	1008.30	6.69		19938.15	11442.93				MinPt-CtCt
	1302.96	298.90	1103.19	1004.06	6.56		20100.00	11443.76				MinPt-EOU
	1304.98	301.28	1103.63	1003.70	6.52		20170.00	11444.12				MinPt-ADP
	1307.67	355.62	1070.09	952.05	5.53		21480.00	11450.87				MinPt-CtCt
	1307.74	355.83	1070.02	951.90	5.53		21490.00	11450.92				MinPt-EOU
	1307.88	356.03	1070.03	951.86	5.53		21500.00	11450.97				MinPt-ADP
	1309.23	356.66	1070.96	952.57	5.52		21540.00	11451.18				MinPt-SF
	1326.62	356.79	1088.26	969.83	5.59		21699.43	11452.00				TD

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 548637

**ACKNOWLEDGMENTS**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 548637
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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**Santa Fe, NM 87505**

COMMENTS

Action 548637

**COMMENTS**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 548637
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**COMMENTS**

Created By	Comment	Comment Date
matthew.gomez	Change of Plans included within submission.	2/11/2026

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CONDITIONS

Action 548637

**CONDITIONS**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 548637
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
cdenson	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/30/2026
matthew.gomez	If cement does not circulate to surface on any string, a Cement Bond Log (CBL) is required for that string of casing. If a CBL is unable to indicate sufficient cement coverage due to a lighter cement, a USI log may also be required. If strata isolation is not achieved, remediation will be required before further operations may commence.	2/11/2026
matthew.gomez	All conducted logs must be submitted to the OCD.	2/11/2026
matthew.gomez	Cement must be in place for at least eight hours and achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	2/11/2026
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	2/11/2026
matthew.gomez	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	2/11/2026
matthew.gomez	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	2/11/2026
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/11/2026