

Form 3160-3  
(June 2015)

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

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		9. API Well No. <b>30-025-53122</b>
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification.  |
| 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). | 6. Such other site specific information and/or plans as may be requested by the BLM.            |

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

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

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



(Continued on page 2)

\*(Instructions on page 2)

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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 <b>30-025-53122</b>	<sup>2</sup> Pool Code <b>98177</b>	<sup>3</sup> Pool Name <b>WC-025 G-09 S223332A; UPR Wolfcamp</b>
<sup>4</sup> Property Code <b>336010</b>	<sup>5</sup> Property Name <b>TRISTE DRAW 36-25 FEDERAL COM</b>	
<sup>7</sup> OGRID No. <b>215099</b>	<sup>8</sup> Operator Name <b>CIMAREX ENERGY CO.</b>	
		<sup>6</sup> Well Number <b>401H</b>
		<sup>9</sup> Elevation <b>3657.4'</b>

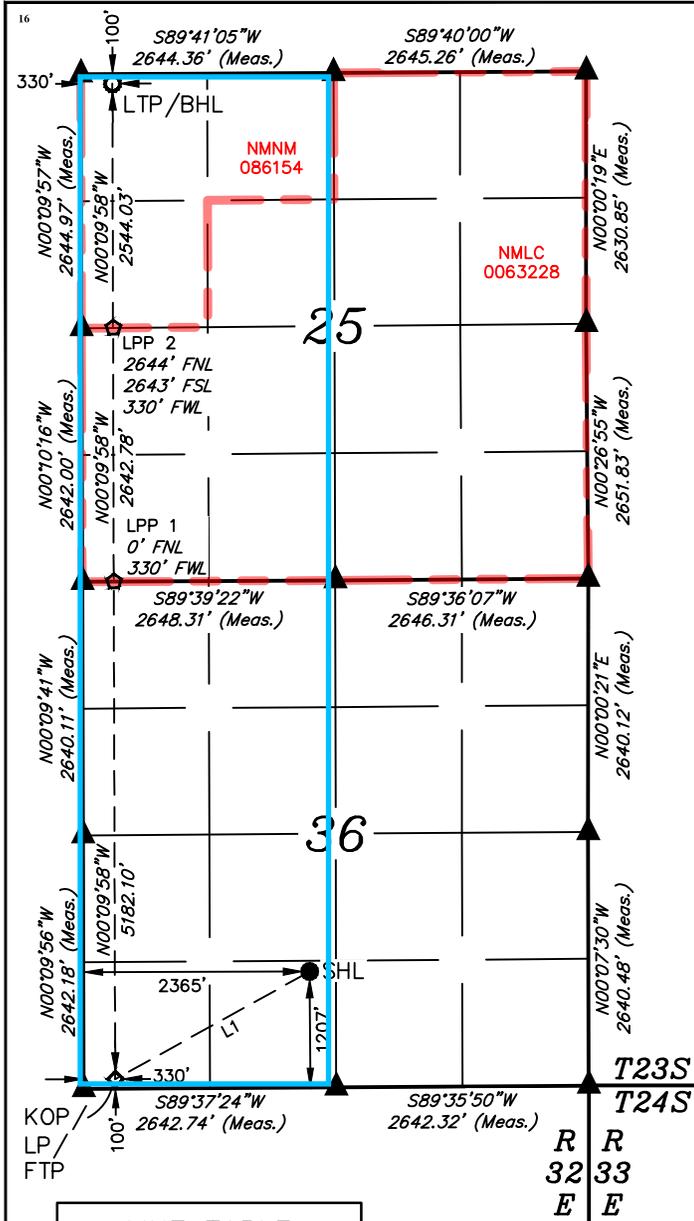
<sup>10</sup> Surface Location

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		1207	SOUTH	2365	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	330	WEST	LEA
<sup>12</sup> Dedicated Acres <b>640</b>		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

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.



<b>NAD 83 (SURFACE HOLE LOCATION)</b> LATITUDE = 32°15'26.14" (32.257261°) LONGITUDE = -103°37'45.19" (-103.629218°)
<b>NAD 27 (SURFACE HOLE LOCATION)</b> LATITUDE = 32°15'25.70" (32.257138°) LONGITUDE = -103°37'43.45" (-103.628737°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 458038.63' E: 758995.50'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 457979.49' E: 717811.78'

<b>NAD 83 (KOP/LP/FTP)</b> LATITUDE = 32°15'15.10" (32.254195°) LONGITUDE = -103°38'08.87" (-103.635798°)
<b>NAD 27 (KOP/LP/FTP)</b> LATITUDE = 32°15'14.66" (32.254071°) LONGITUDE = -103°38'07.14" (-103.635317°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 456909.76' E: 756968.76'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 456850.65' E: 715785.01'

<b>NAD 83 (LPP 1)</b> LATITUDE = 32°16'06.37" (32.268436°) LONGITUDE = -103°38'08.91" (-103.635808°)
<b>NAD 27 (LPP 1)</b> LATITUDE = 32°16'05.93" (32.268313°) LONGITUDE = -103°38'07.17" (-103.635326°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 462090.82' E: 756932.03'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 462031.56' E: 715748.41'

<b>NAD 83 (LPP 2)</b> LATITUDE = 32°16'32.52" (32.275699°) LONGITUDE = -103°38'08.93" (-103.635813°)
<b>NAD 27 (LPP 2)</b> LATITUDE = 32°16'32.07" (32.275576°) LONGITUDE = -103°38'07.19" (-103.635331°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 464733.06' E: 756913.30'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 464673.73' E: 715729.75'

<b>NAD 83 (LTP/BHL)</b> LATITUDE = 32°16'57.69" (32.282691°) LONGITUDE = -103°38'08.94" (-103.635818°)
<b>NAD 27 (LTP/BHL)</b> LATITUDE = 32°16'57.24" (32.282568°) LONGITUDE = -103°38'07.21" (-103.635335°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 467276.58' E: 756895.26'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 467217.17' E: 715711.77'

<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* 10/23/23  
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:



Certificate Number:



SCALE

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

LINE	DIRECTION	LENGTH
L1	S61°07'22"W	2320.33'

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

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	401H	N, Sec 36 T23S, R32E	1207 FSL/2365 FWL	2269	5485	5915

**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	401H	7/15/2025	9/19/2025	10/27/2025	12/11/2025	12/11/2025

**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

**OIL CONSERVATION DIVISION**  
**(Only applicable when submitted as a standalone form)**

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

***From State of New Mexico, Natural Gas Management Plan***

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

**XEC Standard Response**

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

## **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.*

**1. Geological Formations**

TVD of target 12,445

Pilot Hole TD N/A

MD at TD 22,883

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	9033	Hydrocarbons	
Avalon Shale	9465	Hydrocarbons	
1st Bone Spring Sand	10050	Hydrocarbons	
2nd Bone Spring Sand	10592	Hydrocarbons	
3rd Bone Spring Carbonate	11115	N/A	
3rd Bone Spring Sand	11942	Hydrocarbons	
Wolfcamp	12270	Hydrocarbons	
Wolfcamp Clastics - Target	12445	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	1320	1320	10-3/4"	40.50	J-55	BT&C	2.83	5.61	12.06
9 7/8	0	12936	12405	7-5/8"	29.70	L-80	LT&C	2.47	1.19	1.54
6 3/4	0	12136	12136	5-1/2"	23.00	L-80	LT&C	1.47	1.30	2.18
6 3/4	12136	22883	12445	5"	18.00	P-110	BT&C	1.73	1.75	104.28
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 401H

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

**3. Cementing Program**

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	513	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	137	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	1025	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	12736	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
<b>9 7/8</b>	<b>13 5/8</b>	<b>10M</b>	Annular	5M	10M
			Blind Ram		
			Pipe Ram	X	
			Double Ram	X	
			Other		
<b>6 3/4</b>	<b>13 5/8</b>	<b>10M</b>	Annular	5M	10M
			Blind Ram		
			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 12936'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
12936' to 22883'	OBM	11.50 - 12.00	50-70	N/C

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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**6. Logging and Testing Procedures**

Logging, Coring and Testing	
X	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.
	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	7765 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.



Coterra Triste Draw 36-25 Federal Com 401H Rev0 mdv 19Oct23 Proposal  
Geodetic Report



Report Date: October 23, 2023 - 09:21 PM (UTC 0)  
 Client: COTERRA  
 Field: NM Lea County (NAD 83)  
 Structure / Slot: Coterra Triste Draw 36-25 Fed Com E2W2 Pad / 401H  
 Well: Triste Draw 36-25 Federal Com 401H  
 Borehole: Triste Draw 36-25 Federal Com 401H  
 UBH / API#: Unknown / Unknown  
 Survey Name: Coterra Triste Draw 36-25 Federal Com 401H Rev0 mdv 19Oct23  
 Survey Date: October 23, 2023  
 Tort / AHD / DDI / ERD Ratio: 124.014' / 12687.258 ft / 6.461' / 1.019  
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet  
 Location Lat / Long: 32°15'26.13990"N, 103°37'45.18583"W  
 Location Grid N/E Y/X: N 458038.630 RUS, E 758995.500 RUS  
 CRS Grid Convergence Angle: 0.376'  
 Grid Scale Factor: 0.99996335  
 Version / Patch: 2023.1.0.1

Def Plan  
 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: 3680.400 ft above MSL  
 Seabed / Ground Elevation: 3657.400 ft above MSL  
 Gravity Model: GARM  
 Magnetic Declination: 6.242°  
 Total Gravity Field Strength: 996.4376mgn (9.80665 Bused)  
 Total Magnetic Field Strength: 47454.923 nT  
 Magnetic Dip Angle: 59.802°  
 Declination Date: September 29, 2023  
 Magnetic Declination Model: HDCM 2023  
 North Reference: Grid North  
 Grid Convergence Used: 0.376'  
 Total Corr Mag North->Grid North: 5.897'  
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)
SHL [1207' FSL, 2365' FWL]	0.00	0.00	240.89	0.00	-3,680.40	0.00	0.00	0.00	0.00	458,038.63	758,995.50	32.25726108	-103.62921829
Nudge, Build 2"/100ft	1,800.00	0.00	240.89	1,800.00	-1,880.40	0.00	0.00	0.00	0.00	458,038.63	758,995.50	32.25726108	-103.62921829
Hold	2,650.22	17.00	240.89	2,637.79	-1,042.61	-80.15	-89.94	-189.42	2.00	457,977.69	758,868.09	32.25709956	-103.62957350
Drop 2"/100ft	9,726.51	17.00	240.89	9,404.73	5,724.33	-1,054.09	-1,067.84	-1,917.36	0.00	456,970.83	757,078.21	32.25436045	-103.63544270
Hold	10,576.73	0.00	240.89	10,242.52	6,562.12	-1,114.25	-1,128.78	-2,026.78	2.00	456,909.89	756,968.80	32.25419491	-103.63579789
KOP, Build 10"/100ft	12,186.73	0.00	240.89	11,852.52	8,172.12	-1,114.25	-1,128.78	-2,026.78	0.00	456,909.89	756,968.80	32.25419491	-103.63579789
Build 5"/100ft	12,936.73	75.00	359.59	12,405.95	8,725.55	-889.58	-704.13	-2,029.82	10.00	457,334.53	756,965.76	32.25536216	-103.63579880
Landing Point	13,236.73	90.00	359.59	12,445.00	8,764.60	-393.00	-407.55	-2,031.93	5.00	457,631.10	756,963.65	32.25617737	-103.63579940
Triste Draw 36-25 Federal Com 401H LPP1	17,696.63	90.00	359.59	12,445.00	8,764.60	4,066.90	4,052.23	-2,063.57	0.00	462,090.71	756,932.01	32.26843600	-103.63580800
Triste Draw 36-25 Federal Com 401H LPP2	20,339.15	90.00	359.60	12,445.00	8,764.60	6,709.42	6,694.69	-2,082.28	0.00	464,733.06	756,913.30	32.27569932	-103.63581294
Triste Draw 36-25 Federal Com 401H BHL [100' FNL, 330' FWL]	22,882.83	90.00	359.59	12,445.00	8,764.60	9,253.10	9,238.31	-2,100.32	0.00	467,276.58	756,895.26	32.28269096	-103.63581781

Survey Type: Def Plan  
 Survey Error Model: ISOWSAD 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	10,363.200	1/100.000	5.5 - 12.25 - 8.75 3.375 - 9.625 - 7			A001Mb_MWD		Triste Draw 36-25 Federal Com 401H / Coterra Tris
	1	10,363.200	19,512.179	1/100.000	8.75 - 6	7 - 4.5		A008Mb_MWD+FR1+MS		Triste Draw 36-25 Federal Com 401H / Coterra Tris

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,189.400	17.500	13.375	
4,884.504	12.250	9.625	
12,201.400	8.750	7.000	
22,882.829	6.000	4.500	



# COTERRA

# Rev0



<b>Borehole:</b> Triste Draw 36-25 Federal Com 401H	<b>Well:</b> Triste Draw 36-25 Federal Com 401H	<b>Field:</b> NM Lea County (NAD 83)	<b>Structure:</b> Coterra Triste Draw 36-25 Fed Com E2W2 Pad
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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 2023	<b>Dip:</b> 59.802°	<b>Date:</b> 29-Sep-2023	<b>Lat:</b> N 32 15 26.14	<b>Northing:</b> 458038.63ftUS	<b>Grid Conv:</b> 0.3758°	<b>Slot:</b> 401H	<b>TVD Ref:</b> RKB (3680.400 ft above MSL)
<b>MagDec:</b> 6.242°	<b>FS:</b> 47454.923nT	<b>Gravity FS:</b> 998.438mgn (9.80665 Based)	<b>Lon:</b> W 103 37 45.19	<b>Easting:</b> 758995.5ftUS	<b>Scale Fact:</b> 0.9996335	<b>Plan:</b> Coterra Triste Draw 36-25 Federal Com 401H Rev0 mdv 19Oct23	

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [1207' FSL, 2365' FWL]	0.00	0.00	240.89	0.00	0.00	0.00	0.00	0.00
Rustler	1238.00	0.00	240.89	1238.00	0.00	0.00	0.00	0.00
Top Salt/Salado	1731.00	0.00	240.89	1731.00	0.00	0.00	0.00	0.00
Nudge, Build 2"/100ft	1800.00	0.00	240.89	1800.00	0.00	0.00	0.00	0.00
Hold	2650.22	17.00	240.89	2637.79	-60.15	-60.94	-109.42	2.00
Base Salt/Lamar	5158.06	17.00	240.89	5036.00	-412.41	-417.79	-750.15	0.00
Top Delaware Sands/Bell Canyon	5211.39	17.00	240.89	5087.00	-419.90	-425.37	-763.78	0.00
Cherry Canyon	6103.39	17.00	240.89	5940.00	-545.19	-552.30	-991.68	0.00
Brushy Canyon	7544.39	17.00	240.89	7318.00	-747.59	-757.34	-1359.84	0.00
Basal Brushy Canyon	8919.50	17.00	240.89	8633.00	-940.74	-953.01	-1711.18	0.00
Bone Spring Lime	9146.43	17.00	240.89	8850.00	-972.62	-985.30	-1769.15	0.00
Leonard/Avalon Sand	9337.79	17.00	240.89	9033.00	-999.49	-1012.53	-1818.05	0.00
Drop 2"/100ft	9726.51	17.00	240.89	9404.73	-1054.09	-1067.84	-1917.36	0.00
Avalon Shale	9789.34	15.75	240.89	9465.00	-1062.60	-1076.46	-1932.84	2.00
1st Bone Spring Sand	10384.07	3.85	240.89	10050.00	-1111.14	-1125.63	-2021.12	2.00
Hold	10576.73	0.00	240.89	10242.52	-1114.25	-1128.78	-2026.78	2.00
2nd Bone Spring Sand	10926.21	0.00	240.89	10592.00	-1114.25	-1128.78	-2026.78	0.00
3rd Bone Spring Carbonate	11449.21	0.00	240.89	11115.00	-1114.25	-1128.78	-2026.78	0.00
KOP, Build 10"/100ft	12186.73	0.00	240.89	11852.52	-1114.25	-1128.78	-2026.78	0.00
3rd Bone Spring Sand	12276.58	8.98	359.59	11942.00	-1107.22	-1121.75	-2026.83	10.00
Wolfcamp	12654.46	46.77	359.59	12270.00	-933.71	-948.24	-2028.07	10.00
Build 5"/100ft	12936.73	75.00	359.59	12405.95	-689.58	-704.13	-2029.82	10.00
Landing Point	13236.73	90.00	359.59	12445.00	-393.00	-407.55	-2031.93	5.00
Triste Draw 36-25 Federal Com 401H LPP1	17696.63	90.00	359.59	12445.00	4066.90	4052.23	-2063.57	0.00
Triste Draw 36-25 Federal Com 401H LPP2	20339.15	90.00	359.60	12445.00	6709.42	6694.69	-2082.28	0.00
Triste Draw 36-25 Federal Com 401H BHL [100' FNL, 330' FWL]	22882.83	90.00	359.59	12445.00	9253.10	9238.31	-2100.32	0.00



Grid North  
Tot Corr (M->G 5.867°)  
Mag Dec (6.242°)  
Grid Conv (0.376°)

CONTROLLED

Plan ref: Coterra Triste Draw 36-25 Federal Com 401H Rev0 mdv 19Oct23

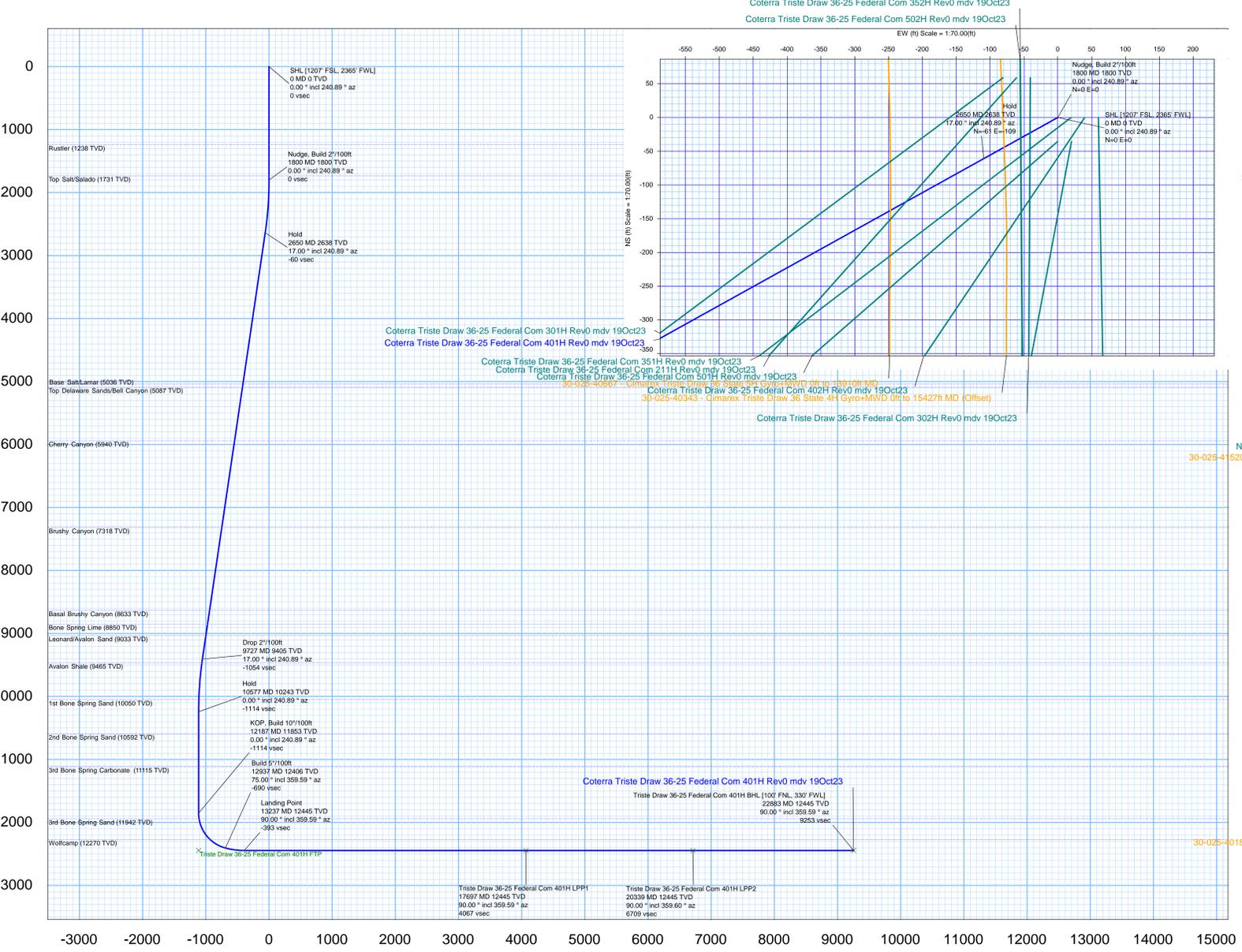
Drawing ref: \_\_\_\_\_

Copy number: \_\_\_\_\_ of 3

Date: 23-Oct-2023

1	Client	
2	Client	
3	Office	
4	Office	

Copy number for: \_\_\_\_\_





Coterra Triste Draw 36-25 Federal Com 401H Rev0 mdv 19Oct23 Anti-Collision Summary Report

Analysis Date-24hr Time: October 23, 2023 - 09:21 PM ( UTC 0 )
Client: COTERRA
Field: NM Lea County (NAD 83)
Structure: Coterra Triste Draw 36-25 Fed Com E2W2 Pad
Slot: 401H
Well: Triste Draw 36-25 Federal Com 401H
Borehole: Triste Draw 36-25 Federal Com 401H
Scan MD Range: 0.00ft ~ 22882.83ft

Analysis Method: 3D Least Distance
Reference Trajectory: Coterra Triste Draw 36-25 Federal Com 401H 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 401H-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 <= 10000ft
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
50 out of 51 are selected

Table with columns: Offset Trajectory, Separation (Ct-Ct (ft), MAS (ft), EOU (ft)), Allow Dev. (ft), Sep. Fact., Controlling Rule, Reference Trajectory (MD (ft), TVD (ft)), Risk Level (Alert, Minor, Major), Alert, Status

Results highlighted in red: Sep-Factor <= 1.5
Result highlighted in boxed, red and bold: all local minima indicated.

Table for 30-025-41520 - COX 35 FEDERAL 1H - Blind+MWD to 15465ft - A (DefinitiveSurvey). Includes columns for separation, allow dev, sep fact, controlling rule, reference trajectory, risk level, alert, and status.

Table for 30-025-08134 - GULF-STATE 1 - Blind to 5206ft - P&A (DefinitiveSurvey). Includes columns for separation, allow dev, sep fact, controlling rule, reference trajectory, risk level, alert, and status.

Table for 30-025-08120 - FIELDS 2 - Blind to 5206ft - P&A (DefinitiveSurvey). Includes columns for separation, allow dev, sep fact, controlling rule, reference trajectory, risk level, alert, and status.

Table for 30-025-08122 - FEDERAL JAMES 4 - Blind to 5211ft - P&A (DefinitiveSurvey). Includes columns for separation, allow dev, sep fact, controlling rule, reference trajectory, risk level, alert, and status.

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		
	8750.88	6001.15	<b>4749.62</b>	2749.73	2.19	OSF1.50	14830.00	12445.00				MinPt-EOU	
	7412.57	2234.40	5922.47	5178.17	4.98	OSF1.50	18290.00	12445.00			OSF>5.00	Exit Alert	
	<b>7279.94</b>	980.58	6625.72	6299.36	11.15	OSF1.50	19690.00	12445.00				MinPt-CtCt	
	7410.34	2224.66	5926.73	5185.68	5.00	OSF1.50	21070.00	12445.00			OSF<5.00	Enter Alert	
	7950.94	4405.10	<b>5013.71</b>	<b>3545.84</b>	<b>2.71</b>	OSF1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 351H Rev0 mdv 19Oct23 (DefinitivePlan)													Fail Minor
	20.01	16.26	18.72	3.75	N/A	MAS = 4.96 (m)	0.00	0.00			CtCt<=15m<15.00	Enter Alert	
	20.00	16.26	18.72	3.74	N/A	MAS = 4.96 (m)	23.00	23.00				WRP	
	20.00	16.74	<b>8.41</b>	<b>3.25</b>	<b>-1.82</b>	OSF1.50	1090.00	1090.00				MinPts	
	<b>20.00</b>	20.05	6.31	-0.05	1.50	OSF1.50	1330.00	1330.00			OSF<1.50	Enter Minor	
	<b>20.00</b>	27.12	1.60	-7.11	1.09	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	21.38	31.44	<b>0.10</b>	<b>-10.05</b>	<b>1.00</b>	OSF1.50	2110.00	2109.40				MinPts	
	22.66	32.96	0.35	<b>-10.31</b>	1.02	OSF1.50	2220.00	2218.50				MinPt-ADP	
	42.05	42.23	13.57	-0.18	1.49	OSF1.50	2800.00	2781.03			OSF>1.50	Exit Minor	
	581.81	178.73	<b>462.33</b>	<b>403.08</b>	<b>4.90</b>	OSF1.50	11890.00	11555.79				MinPts	
	585.31	176.53	467.29	408.78	4.99	OSF1.50	12060.00	11725.79			OSF>5.00	Exit Alert	
	722.75	217.54	577.39	505.21	5.00	OSF1.50	16980.00	12445.00			OSF<5.00	Enter Alert	
	<b>722.67</b>	275.47	538.70	447.20	3.94	OSF1.50	19410.00	12445.00				MinPt-CtCt	
	<b>722.68</b>	371.50	<b>474.68</b>	<b>351.17</b>	<b>2.92</b>	OSF1.50	22882.83	12445.00				MinPts	
30-025-25150 - FIELDS 3 - Blind to 5200ft - P&A (DefinitiveSurvey)													Fail Minor
	7444.43	32.81	7421.97	7411.62	363.42	MAS = 10.00 (m)	0.00	0.00				Surface	
	7444.43	56.57	7406.06	7387.87	204.51	OSF1.50	23.00	23.00				WRP	
	7444.43	2235.43	5953.56	5209.00	5.00	OSF1.50	1140.00	1140.00			OSF<5.00	Enter Alert	
	<b>7444.43</b>	3605.31	5040.31	3839.12	3.10	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	7735.94	7745.43	2571.73	-9.49	1.50	OSF1.50	3860.00	3794.68			OSF<1.50	Enter Minor	
	8005.20	10579.96	<b>951.35</b>	<b>-2574.76</b>	<b>1.13</b>	OSF1.50	5290.00	5162.17				MinPts	
	9666.84	9675.04	3216.28	-8.20	1.50	OSF1.50	9380.00	9073.36			OSF>1.50	Exit Minor	
	10300.79	7481.28	5312.77	2819.51	<b>2.07</b>	OSF1.50	14370.00	12445.00				MinPt-SF	
	9542.54	6835.31	4985.16	<b>2707.22</b>	2.09	OSF1.50	15620.00	12445.00				MinPt-ADP	
	8764.68	5885.12	<b>4840.77</b>	2879.56	2.23	OSF1.50	17160.00	12445.00				MinPt-EOU	
	<b>7872.08</b>	4016.95	5193.62	3855.14	2.94	OSF1.50	21010.00	12445.00				MinPt-CtCt	
	8090.99	4612.17	<b>5015.71</b>	<b>3478.82</b>	<b>2.63</b>	OSF1.50	22882.83	12445.00				MinPts	
30-025-20437 - WEHRLI-FEDERAL 1 - Blind to 5167ft - P&A (DefinitiveSurvey)													Fail Minor
	8369.68	32.81	8347.22	8336.87	408.61	MAS = 10.00 (m)	0.00	0.00				Surface	
	8369.68	56.57	8331.31	8313.11	229.94	OSF1.50	23.00	23.00				WRP	
	<b>8369.68</b>	2526.01	6685.08	5843.66	4.97	OSF1.50	1280.00	1280.00			OSF<5.00	Enter Alert	
	<b>8369.68</b>	3605.31	5965.55	4764.37	3.48	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	<b>8681.23</b>	8698.17	<b>2881.87</b>	<b>-16.93</b>	<b>1.50</b>	OSF1.50	4340.00	4253.70			OSF<1.50	Enter Minor	
	8826.69	10511.47	<b>1818.50</b>	<b>-1684.78</b>	<b>1.25</b>	OSF1.50	5260.00	5133.48				MinPts	
	9940.01	9945.44	3309.18	-5.43	1.50	OSF1.50	8620.00	8346.59			OSF>1.50	Exit Minor	
	10346.45	7432.23	5391.13	2914.22	<b>2.09</b>	OSF1.50	14960.00	12445.00				MinPt-SF	
	9558.31	6763.88	5048.55	<b>2794.42</b>	2.12	OSF1.50	16180.00	12445.00				MinPt-ADP	
	8781.54	5813.08	<b>4905.65</b>	2968.46	2.27	OSF1.50	15750.00	12445.00				MinPt-EOU	
	<b>7882.53</b>	2765.56	5738.39	4817.04	4.11	OSF1.50	21999.38	12445.00				MinPt-CtCt	
	7633.89	3006.17	<b>5629.27</b>	<b>4627.72</b>	<b>3.81</b>	OSF1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 501H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	34.99	28.25	33.71	6.74	N/A	MAS = 8.61 (m)	0.00	0.00			CtCt<=15m<15.00	Enter Alert	
	34.99	28.25	33.71	6.74	47565.03	MAS = 8.61 (m)	23.00	23.00				WRP	
	<b>34.99</b>	28.25	<b>23.40</b>	6.74	3.27	MAS = 8.61 (m)	1090.00	1090.00				MinPt-EOU	
	35.18	28.25	<b>18.38</b>	6.92	2.16	MAS = 8.61 (m)	1640.00	1640.00				MinPt-EOU	
	35.93	28.25	18.64	7.67	<b>2.14</b>	MAS = 8.61 (m)	1690.00	1690.00				MinPt-SF	
	94.02	42.11	65.62	<b>51.91</b>	3.39	OSF1.50	2810.00	2790.59				MinPt-ADP	
	126.71	62.24	84.89	64.47	<b>3.08</b>	OSF1.50	3730.00	3670.37				MinPt-SF	
	557.98	168.16	445.54	389.82	5.00	OSF1.50	9200.00	8901.23			OSF>5.00	Exit Alert	
	<b>787.20</b>	178.06	668.16	609.14	6.66	OSF1.50	12240.00	11905.71				MinPt-CtCt	
	787.89	180.26	<b>667.38</b>	607.62	6.58	OSF1.50	12390.00	12051.55				MinPt-EOU	
	788.67	181.21	667.53	<b>607.45</b>	6.56	OSF1.50	12430.00	12088.54				MinPt-ADP	
	811.42	190.07	684.38	621.35	<b>6.43</b>	OSF1.50	12680.00	12287.07				MinPt-SF	
	<b>862.30</b>	170.84	<b>748.08</b>	<b>691.45</b>	<b>7.61</b>	OSF1.50	13230.00	12444.98				MinPts	
	862.13	259.50	688.80	602.63	5.00	OSF1.50	18630.00	12445.00			OSF<5.00	Enter Alert	
	<b>862.12</b>	277.36	676.89	584.76	4.67	OSF1.50	19340.00	12445.00				MinPt-CtCt	
	<b>862.14</b>	374.95	<b>611.84</b>	<b>487.19</b>	<b>3.45</b>	OSF1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 402H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	40.00	32.25	38.71	7.75	N/A	MAS = 9.83 (m)	0.00	0.00			CtCt<=15m<15.00	Enter Alert	
	39.99	32.25	38.71	7.74	N/A	MAS = 9.83 (m)	23.00	23.00				WRP	
	39.99	32.25	<b>28.40</b>	7.74	3.76	MAS = 9.83 (m)	1090.00	1090.00				MinPt-EOU	
	<b>39.99</b>	32.25	21.59	<b>7.74</b>	2.24	MAS = 9.83 (m)	1800.00	1800.00				MinPts	
	40.44	32.25	<b>21.18</b>	8.19	2.16	MAS = 9.83 (m)	1890.00	1889.99				MinPt-EOU	
	41.61	32.25	21.60	9.36	<b>2.14</b>	MAS = 9.83 (m)	1970.00	1969.90				MinPt-SF	
	146.71	44.90	116.44	101.81	4.98	OSF1.50	2980.00	2953.16			OSF>5.00	Exit Alert	
	1313.24	174.64	1196.48	1138.60	<b>11.33</b>	OSF1.50	10370.00	10035.97				MinPt-SF	
	<b>1319.78</b>	179.91	1199.51	1139.86	11.06	OSF1.50	12990.00	12418.54				MinPt-CtCt	
	<b>1319.80</b>	349.57	1086.42	970.23	5.68	OSF1.50	21890.00	12445.00				MinPt-CtCt	
	1319.82	377.27	<b>1067.98</b>	<b>942.55</b>	<b>6.26</b>	OSF1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 502H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	40.30	32.50	39.02	7.80	N/A	MAS = 9.91 (m)	0.00	0.00			CtCt<=15m<15.00	Enter Alert	
	40.30	32.50	39.02	7.80	110118.31	MAS = 9.91 (m)	23.00	23.00				WRP	
	40.30	32.50	<b>28.71</b>	7.80	3.79	MAS = 9.91 (m)	1090.00	1090.00				MinPt-EOU	
	<b>40.30</b>	32.50	24.00	<b>7.80</b>	2.57	MAS = 9.91 (m)	1590.00	1590.00				MinPts	
	40.51	32.50	<b>23.72</b>	8.01	2.50	MAS = 9.91 (m)	1640.00	1640.00				MinPt-EOU	
	41.37	32.50	24.10	8.87	<b>2.48</b>	MAS = 9.91 (m)	1690.00	1690.00				MinPt-SF	
	111.94	34.50	88.61	77.43	4.97	OSF1.50	2350.00	2346.63			OSF>5.00	Exit Alert	
	<b>1847.25</b>	175.94	1729.64	1671.32	15.83	OSF1.50	12270.00	11935.50				MinPt-CtCt	
	1847.48	176.70	<b>1729.36</b>	1670.78	15.76	OSF1.50	12390.00	12051.55				MinPt-EOU	
	1847.69	176.95	1729.40	<b>1670.74</b>	15.74	OSF1.50	12420.00	12079.40				MinPt-ADP	
	1881.01	183.19	1758.56	1697.83	<b>15.48</b>	OSF1.50	12870.00	12384.97				MinPt-SF	
	<b>2056.00</b>												

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		
	61.55	32.81	42.19	28.74	3.30	MAS = 10.00 (m)	1900.00	1899.98				MinPt-SF	
	113.61	35.16	89.84	78.45	4.94	OSF 1.50	2370.00	2366.25	OSF<5.00			Exit Alert	
	2105.27	176.22	1987.47	1929.06	18.01	OSF 1.50	11930.00	11595.79				MinPt-SF	
	2001.43	307.67	1795.99	1693.76	9.78	OSF 1.50	20420.00	12445.00				MinPt-CtCt	
	2001.49	375.45	1750.86	1626.04	8.01	OSF 1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 302H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	72.10	32.81	70.81	39.29	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	72.10	32.81	70.81	39.29	28551.19	MAS = 10.00 (m)	23.00	23.00				WRP	
	72.10	32.81	69.50	39.29	6.87	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	72.10	32.81	56.80	39.29	4.97	MAS = 10.00 (m)	1490.00	1490.00	OSF<5.00			Enter Alert	
	71.81	32.81	51.54	39.00	3.67	MAS = 10.00 (m)	1990.00	1989.86				MinPts	
	63.40	35.45	39.43	27.95	2.72	OSF 1.50	2394.41	2390.15				MinPt-CtCt	
	63.45	35.66	39.33	27.79	2.70	OSF 1.50	2410.00	2405.40				MinPt-ADP	
	63.54	35.79	39.35	27.75	2.70	OSF 1.50	2420.00	2415.17				MinPt-EOU	
	63.88	36.06	39.51	27.82	2.69	OSF 1.50	2440.00	2434.69				MinPt-SF	
	139.39	43.00	110.40	96.39	4.94	OSF 1.50	2900.00	2876.65	OSF<5.00			Exit Alert	
	1979.71	175.89	1862.12	1803.82	16.97	OSF 1.50	11110.00	10775.79				MinPts	
	1979.71	175.89	1862.12	1803.82	16.97	OSF 1.50	11120.00	10785.79				MinPt-SF	
	2262.69	161.14	2154.94	2101.55	21.18	OSF 1.50	13250.00	12445.00				MinPt-CtCt	
	2262.70	339.84	2035.81	1922.86	10.01	OSF 1.50	21840.00	12445.00				MinPt-CtCt	
	2262.71	369.93	2015.76	1892.78	9.20	OSF 1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 301H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	99.98	32.81	98.70	67.18	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	99.98	32.81	98.69	67.18	25322.70	MAS = 10.00 (m)	23.00	23.00				WRP	
	99.98	32.81	88.33	67.18	9.57	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	97.28	32.81	76.92	64.47	4.97	MAS = 10.00 (m)	2000.00	1999.84	OSF<5.00			Enter Alert	
	73.40	50.86	39.17	22.54	2.18	OSF 1.50	3309.66	3268.41				MinPt-CtCt	
	74.45	54.14	38.02	20.30	2.07	OSF 1.50	3530.00	3479.11				MinPt-EOU	
	75.74	55.69	38.28	20.05	2.05	OSF 1.50	3640.00	3584.30				MinPt-ADP	
	77.69	57.33	39.14	20.36	2.04	OSF 1.50	3760.00	3699.06				MinPt-SF	
	360.33	179.06	240.63	181.27	3.03	OSF 1.50	10680.00	10345.79				MinPt-SF	
	360.21	178.97	240.57	181.24	3.03	OSF 1.50	10700.00	10365.79				MinPts	
	360.18	179.11	240.45	181.07	3.02	OSF 1.50	11080.00	10745.79				MinPt-CtCt	
	360.18	179.12	240.44	181.07	3.02	OSF 1.50	11090.00	10755.79				MinPts	
	468.97	141.72	374.16	327.24	4.99	OSF 1.50	11720.00	11385.79	OSF<5.00			Exit Alert	
	1170.26	169.81	1056.72	1000.45	10.39	OSF 1.50	16440.00	12445.00				MinPt-CtCt	
	1172.05	175.17	1054.93	996.88	10.08	OSF 1.50	16630.00	12445.00				MinPt-EOU	
	1174.28	177.82	1055.40	996.45	9.95	OSF 1.50	16720.00	12445.00				MinPt-ADP	
	1170.25	205.97	1032.61	964.29	8.56	OSF 1.50	17830.00	12445.00				MinPt-CtCt	
	1170.25	315.09	959.86	855.16	5.58	OSF 1.50	21550.00	12445.00				MinPt-CtCt	
	1170.25	351.81	935.38	818.44	5.00	OSF 1.50	22740.00	12445.00	OSF<5.00			Enter Alert	
	1170.25	356.25	932.42	814.00	4.94	OSF 1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 211H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	84.84	32.81	83.55	52.03	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	84.84	32.81	83.55	52.03	29476.23	MAS = 10.00 (m)	23.00	23.00				WRP	
	84.84	32.81	73.24	52.03	8.10	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	84.84	32.81	67.03	52.03	4.98	MAS = 10.00 (m)	1740.00	1740.00	OSF<5.00			Enter Alert	
	81.35	32.81	59.30	48.54	3.82	MAS = 10.00 (m)	2171.98	2170.84				MinPts	
	81.69	33.43	59.07	48.26	3.73	OSF 1.50	2230.00	2228.39				MinPt-EOU	
	82.05	33.87	59.15	48.19	3.70	OSF 1.50	2260.00	2258.03				MinPt-ADP	
	85.99	36.18	61.54	49.81	3.62	OSF 1.50	2420.00	2415.17				MinPt-SF	
	112.30	44.13	82.55	68.17	3.87	OSF 1.50	3010.00	2981.84				MinPt-SF	
	235.95	71.48	187.97	164.47	5.00	OSF 1.50	4620.00	4521.46	OSF<5.00			Exit Alert	
	919.02	177.04	800.67	741.98	7.82	OSF 1.50	10530.00	10195.79				MinPt-SF	
	908.60	172.29	793.41	736.31	7.95	OSF 1.50	10790.00	10455.79				MinPt-ADP	
	908.15	171.74	793.33	736.41	7.97	OSF 1.50	10810.00	10475.79				MinPt-EOU	
	907.73	170.58	793.70	737.17	8.02	OSF 1.50	10850.00	10515.79				MinPt-CtCt	
	1901.60	243.94	1738.65	1657.66	11.73	OSF 1.50	19170.00	12445.00				MinPt-CtCt	
	1901.63	355.98	1663.98	1545.64	8.03	OSF 1.50	22882.83	12445.00				MinPts	
30-025-40184 - Cimarex Triste Draw 36 State 1H Gyro+MWD Offt to 13942ft MD (Offset) (DefinitiveSurvey)													Warning Alert
	4239.71	32.81	4237.65	4206.91	49737.62	MAS = 10.00 (m)	0.00	0.00				Surface	
	4239.70	32.81	4237.63	4206.90	44377.75	MAS = 10.00 (m)	23.00	23.00				WRP	
	4235.63	32.81	4225.75	4202.82	535.94	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4235.56	32.81	4225.24	4202.75	494.39	MAS = 10.00 (m)	1180.00	1180.00				MinPts	
	4236.13	32.81	4224.12	4203.32	413.08	MAS = 10.00 (m)	1440.00	1440.00				MinPt-EOU	
	4236.98	32.81	4223.64	4204.18	365.49	MAS = 10.00 (m)	1650.00	1650.00				MinPts	
	4237.21	32.81	4221.40	4204.41	301.42	MAS = 10.00 (m)	2020.00	2019.78				MinPts	
	4239.53	32.81	4220.28	4206.72	242.34	MAS = 10.00 (m)	2510.00	2502.75				MinPt-EOU	
	451.08	138.47	358.23	312.61	4.93	OSF 1.50	9440.00	9130.74	OSF<5.00			Enter Alert	
	209.35	159.64	100.65	49.70	1.99	OSF 1.50	9840.00	9513.88				MinPts	
	209.34	159.60	100.62	49.73	1.99	OSF 1.50	9842.36	9516.16				MinPts	
	409.89	134.20	315.34	275.69	4.98	OSF 1.50	10200.00	9866.87	OSF<5.00			Exit Alert	
	2926.55	130.37	2835.10	2796.18	37.42	OSF 1.50	13860.00	12445.00				MinPts	
	2925.60	129.45	2834.76	2796.15	37.70	OSF 1.50	13800.00	12445.00				MinPt-CtCt	
	2925.61	129.47	2834.76	2796.14	37.70	OSF 1.50	13810.00	12445.00				MinPts	
	2925.68	129.50	2834.82	2796.17	37.68	OSF 1.50	13830.00	12445.00				MinPt-SF	
	2923.21	128.22	2833.20	2794.99	38.08	OSF 1.50	13980.00	12445.00				MinPt-CtCt	
	2923.24	128.33	2833.16	2794.91	38.04	OSF 1.50	14000.00	12445.00				MinPt-EOU	
	2923.29	128.39	2833.17	2794.90	38.01	OSF 1.50	14010.00	12445.00				MinPt-ADP	
	2924.10	128.72	2833.79	2795.39	37.89	OSF 1.50	14070.00	12445.00				MinPt-SF	
	2928.14	128.19	2838.18	2799.94	38.11	OSF 1.50	14270.00	12445.00				MinPt-SF	
	2935.13	127.45	2845.67	2807.68	38.45	OSF 1.50	14590.00	12445.00				MinPt-SF	
	2936.29	126.17	2847.64	2810.11	38.94	OSF 1.50	14650.00	12445.00				MinPt-EOU	
	2936.31	126.21	2847.65	2810.11	38.93	OSF 1.50	14670.00	12445.00				MinPt-ADP	
	2938.09	127.03	2848.90	2811.06	38.65	OSF 1.50	14880.00	12445.00				MinPt-SF	
	2941.31	127.57	2851.76	2813.74	38.50	OSF 1.50	15070.00	12445.00				MinPt-SF	
	2937.90	127.48	2848.39	2810.42	38.51	OSF 1.50	15280.00	12445.00				MinPt-CtCt	
	2938.14												

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		
	2956.78	140.68	2858.48	2816.10	34.72	OSF1.50	16560.00	12445.00				MinPt-ADP	
	2960.56	143.05	2860.69	2817.51	34.13	OSF1.50	16710.00	12445.00				MinPt-SF	
	2960.73	142.62	2861.13	2818.11	34.25	OSF1.50	16730.00	12445.00				MinPt-CtCt	
	2960.91	143.70	2860.60	2817.22	33.97	OSF1.50	16790.00	12445.00				MinPt-EOU	
	2960.75	144.81	2859.69	2815.94	33.68	OSF1.50	16870.00	12445.00				MinPt-CtCt	
	2961.37	146.77	2859.02	2814.61	33.19	OSF1.50	16970.00	12445.00				MinPt-EOU	
	2962.22	147.77	2859.19	2814.48	32.95	OSF1.50	17020.00	12445.00				MinPt-ADP	
	3239.61	178.50	3116.53	3061.11	29.12	OSF1.50	18390.00	12445.00				MinPt-SF	
	6417.80	206.72	6277.76	6211.07	48.07	OSF1.50	22882.83	12445.00				TD	
30-025-40578 - Cimarex Triste Draw 36 State GH ST01 MWD 10466ft to 15038ft (DefinitiveSurvey)													Warning Alert
	3920.80	32.81	3918.79	3888.00	99460.75	MAS = 10.00 (m)	0.00	0.00				Surface	
	3920.76	32.81	3918.68	3887.95	38686.11	MAS = 10.00 (m)	23.00	23.00				WRP	
	3920.36	32.81	3917.34	3887.55	3758.66	MAS = 10.00 (m)	190.00	190.00				MinPts	
	3923.41	32.81	3915.76	3890.60	692.03	MAS = 10.00 (m)	800.00	800.00				MinPt-EOU	
	3925.34	32.81	3915.46	3892.53	496.66	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	3927.12	32.81	3915.20	3894.31	386.44	MAS = 10.00 (m)	1380.00	1380.00				MinPt-EOU	
	3931.28	32.81	3911.26	3898.48	215.19	MAS = 10.00 (m)	2470.00	2463.91				MinPts	
	3932.49	34.25	3909.07	3898.24	181.47	OSF1.50	2850.00	2828.84				MinPt-EOU	
	3933.53	35.53	3909.26	3898.00	174.62	OSF1.50	2940.00	2914.91				MinPt-ADP	
	4135.38	101.53	4067.15	4033.85	62.08	OSF1.50	7060.00	6854.79				MinPt-SF	
	618.30	189.37	491.51	428.92	4.93	OSF1.50	10860.00	10525.79	OSF<5.00			Enter Alert	
	420.49	241.31	257.93	179.18	2.64	OSF1.50	11310.00	10975.79				MinPt-SF	
	420.48	241.35	257.85	179.13	2.64	OSF1.50	11313.31	10979.10				MinPts	
	420.53	241.40	257.75	179.13	2.64	OSF1.50	11320.00	10985.79				MinPt-EOU	
	599.05	193.30	465.00	405.75	4.92	OSF1.50	11740.00	11405.79	OSF>5.00			Exit Alert	
	1511.42	138.81	1413.19	1372.61	18.41	OSF1.50	13250.00	12445.00				MinPt-ADP	
	1511.17	138.52	1413.14	1372.65	18.45	OSF1.50	13280.00	12445.00				MinPt-EOU	
	1510.97	138.00	1413.30	1372.97	18.52	OSF1.50	13340.00	12445.00				MinPt-CtCt	
	1509.97	134.70	1414.49	1375.27	19.03	OSF1.50	13600.00	12445.00				MinPts	
	1509.26	133.51	1414.59	1375.75	19.21	OSF1.50	13720.00	12445.00				MinPt-EOU	
	1509.23	133.41	1414.62	1375.82	19.23	OSF1.50	13740.00	12445.00				MinPt-CtCt	
	1515.13	128.60	1423.74	1386.53	20.13	OSF1.50	14460.00	12445.00				MinPts	
	1495.03	128.15	1403.92	1366.88	19.95	OSF1.50	15040.00	12445.00				MinPt-SF	
	1493.22	129.61	1401.13	1363.61	19.67	OSF1.50	15390.00	12445.00				MinPt-CtCt	
	1493.46	130.36	1400.89	1363.11	19.54	OSF1.50	15470.00	12445.00				MinPt-EOU	
	1493.75	130.68	1400.96	1363.07	19.49	OSF1.50	15500.00	12445.00				MinPt-ADP	
	1513.26	139.35	1414.71	1373.91	18.34	OSF1.50	16310.00	12445.00				MinPt-SF	
	1510.67	140.30	1411.48	1370.37	18.17	OSF1.50	16440.00	12445.00				MinPt-CtCt	
	1511.03	141.56	1411.01	1369.48	17.99	OSF1.50	16480.00	12445.00				MinPt-EOU	
	1511.53	142.18	1411.09	1369.34	17.90	OSF1.50	16500.00	12445.00				MinPt-ADP	
	1620.34	160.92	1507.78	1459.42	16.89	OSF1.50	17120.00	12445.00				MinPt-SF	
	6179.46	190.70	6050.32	5988.76	50.14	OSF1.50	22882.83	12445.00				TD	
MR 35 26 Federal Com 603H R0 mdy 31May23 (DefinitivePlan)													Warning Alert
	4210.24	32.81	4208.96	4177.43	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4210.20	32.81	4208.90	4177.39	623426.36	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	4210.17	32.81	4208.88	4177.37	1020141.41	MAS = 10.00 (m)	20.00	20.00				MinPt-EOU	
	4210.17	32.81	4208.88	4177.36	2787961.37	MAS = 10.00 (m)	23.00	23.00				WRP	
	1064.79	177.48	946.14	887.31	9.04	OSF1.50	11900.00	11565.79				MinPts	
	709.69	189.29	583.17	520.40	5.65	OSF1.50	12826.53	12367.40				MinPt-CtCt	
	709.75	189.53	583.08	520.23	5.64	OSF1.50	12850.00	12377.26				MinPt-EOU	
	709.90	189.72	583.10	520.19	5.63	OSF1.50	12870.00	12384.97				MinPt-ADP	
	713.98	215.07	570.28	498.92	5.00	OSF1.50	14330.00	12445.00	OSF<5.00			Enter Alert	
	715.46	553.51	346.13	161.96	1.94	OSF1.50	22882.83	12445.00				MinPts	
MR 35 26 Federal Com 502H R0 mdy 31May23 (DefinitivePlan)													Warning Alert
	4192.03	32.81	4190.74	4159.22	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4191.98	32.81	4190.69	4159.18	664166.06	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	4191.96	32.81	4190.67	4159.16	1308785.32	MAS = 10.00 (m)	20.00	20.00				MinPt-EOU	
	4191.96	32.81	4190.68	4159.15	9673624.33	MAS = 10.00 (m)	23.00	23.00				WRP	
	1592.94	167.51	1480.93	1425.42	14.34	OSF1.50	11740.00	11405.79				MinPt-SF	
	1379.75	184.29	1256.56	1195.46	11.28	OSF1.50	12564.37	12203.41				MinPt-CtCt	
	1379.80	184.44	1256.51	1195.36	11.27	OSF1.50	12580.00	12215.63				MinPt-EOU	
	1379.89	184.54	1256.54	1195.35	11.27	OSF1.50	12590.00	12223.31				MinPt-ADP	
	1387.03	186.01	1262.69	1201.02	11.24	OSF1.50	12780.00	12345.32				MinPt-SF	
	1401.56	421.27	1120.38	980.29	5.00	OSF1.50	19980.00	12445.00	OSF<5.00			Enter Alert	
	1402.27	550.05	1035.24	852.21	3.83	OSF1.50	22882.83	12445.00				MinPts	
New Prospect Cox Federal 35 1H Rev0 mcs 17Apr13 (DefinitivePlan)													Pass
	3071.47	32.81	3069.49	3038.66	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3071.46	32.81	3069.49	3038.66	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	3071.46	32.81	3060.90	3038.66	357.42	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	890.31	151.31	788.90	739.00	8.90	OSF1.50	10690.00	10355.79				MinPt-CtCt	
	890.45	151.66	788.77	738.79	8.89	OSF1.50	10730.00	10395.79				MinPt-EOU	
	890.53	151.76	788.77	738.77	8.89	OSF1.50	10740.00	10405.79				MinPt-ADP	
	903.13	156.17	798.04	746.96	8.81	OSF1.50	11020.00	10685.79				MinPt-SF	
	1694.74	133.31	1600.81	1561.43	21.33	OSF1.50	13290.00	12445.00				MinPts	
	1725.73	240.34	1560.40	1485.38	11.40	OSF1.50	17430.00	12445.00				MinPts	
	1726.64	240.67	1561.03	1485.96	11.40	OSF1.50	17470.00	12445.00				MinPt-SF	
	5737.74	205.46	5596.55	5532.29	44.54	OSF1.50	22882.83	12445.00				TD	
Coterra Gin Slinger 23-14 Federal Com 32H Rev0 kFc 19Dec22 (DefinitivePlan)													Pass
	10445.66	32.81	10443.64	10412.85	224999.02	MAS = 10.00 (m)	0.00	0.00				Surface	
	10445.66	32.81	10443.56	10412.85	81647.84	MAS = 10.00 (m)	23.00	23.00				WRP	
	10199.50	111.14	10084.87	10048.36	139.12	OSF1.50	5550.00	5410.80				MinPt-CtCt	
	10160.28	113.40	10084.14	10046.87	136.31	OSF1.50	5700.00	5554.24				MinPt-EOU	
	10161.16	114.47	10084.31	10046.69	135.04	OSF1.50	5770.00	5621.18				MinPt-ADP	
	10583.50	191.31	10455.42	10392.18	83.67	OSF1.50	10400.00	10065.90				MinPt-SF	
	10585.81	192.68	10456.82	10393.13	83.09	OSF1.50	11850.00	11515.79				MinPts	
	10586.74	192.72	10457.73	10394.02	83.08	OSF1.50	11990.00	11655.79				MinPt-SF	
	10587.17	192.73	10458.15	10394.44	83.08	OSF1.50	12020.00	11685.79				MinPt-SF	

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		
	1074.63	309.87	867.51	764.75	5.22	OSF1.50	10127.39	9795.02				MinPt-CtCt	
	11071.62	208.32	10932.24	10863.30	80.29	OSF1.50	22882.83	12445.00				TD	
30-025-40578 - Cimarex Triste Draw 36 State 6H Gyro+MWD Off to 11368ft MD (DefinitiveSurvey)													Pass
3920.80	32.81	3918.79	3888.00	99460.75		MAS = 10.00 (m)	0.00	0.00				Surface	
3920.76	32.81	3918.68	3887.95	38686.11		MAS = 10.00 (m)	23.00	23.00				WRP	
3920.36	32.81	3917.34	3887.59	3758.66		MAS = 10.00 (m)	190.00	190.00				MinPts	
3923.41	32.81	3915.76	3890.60	692.03		MAS = 10.00 (m)	800.00	800.00				MinPt-EOU	
3925.34	32.81	3915.48	3892.53	496.66		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
3927.12	32.81	3915.20	3894.31	386.44		MAS = 10.00 (m)	1380.00	1380.00				MinPt-EOU	
3931.28	32.81	3911.26	3898.48	215.19		MAS = 10.00 (m)	2470.00	2463.91				MinPts	
3932.49	34.26	3909.07	3898.24	181.47		OSF1.50	2850.00	2828.84				MinPt-EOU	
3933.53	35.53	3909.26	3898.00	174.62		OSF1.50	2940.00	2914.91				MinPt-ADP	
4523.73	148.63	4424.10	4375.10	46.14		OSF1.50	10400.00	10065.90				MinPt-SF	
4514.69	149.62	4414.40	4365.07	45.74		OSF1.50	11570.00	11235.79				MinPt-SF	
4513.94	149.56	4413.69	4364.38	45.75		OSF1.50	11650.00	11315.79				MinPts	
4513.97	149.58	4413.70	4364.39	45.76		OSF1.50	11670.00	11335.79				MinPts	
1178.69	151.08	1071.91	1027.51	13.07		OSF1.50	17016.22	12445.00				MinPt-CtCt	
1179.07	152.58	1071.40	1026.49	12.93		OSF1.50	17050.00	12445.00				MinPt-EOU	
1179.81	153.48	1071.55	1026.34	12.85		OSF1.50	17070.00	12445.00				MinPt-ADP	
1245.84	168.04	1128.15	1077.79	12.20		OSF1.50	17420.00	12445.00				MinPt-SF	
5983.82	180.89	5861.66	5802.93	50.91		OSF1.50	22882.83	12445.00				TD	
30-025-40688 - QUESO STATE 1H - Gyro+MWD to 15507ft - A (DefinitiveSurvey)													Pass
1210.64	32.81	1208.65	1177.83	#####		MAS = 10.00 (m)	0.00	0.00				MinPts	
1210.65	32.81	1208.67	1177.84	652639.86		MAS = 10.00 (m)	23.00	23.00				WRP	
1210.17	32.81	1203.17	1177.36	240.83		MAS = 10.00 (m)	570.00	570.00				MinPts	
1208.11	32.81	1195.93	1175.30	118.27		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
1196.04	34.99	1172.13	1161.05	53.92		OSF1.50	2299.95	2297.41				MinPt-CtCt	
1196.40	36.15	1171.71	1160.25	52.10		OSF1.50	2380.00	2376.05				MinPt-EOU	
1196.87	36.73	1171.80	1160.14	51.26		OSF1.50	2420.00	2415.17				MinPt-ADP	
2101.46	126.55	2016.56	1974.91	25.21		OSF1.50	7900.00	7658.07				MinPt-SF	
2185.58	131.79	2097.18	2053.79	25.17		OSF1.50	8250.00	7992.76				MinPt-SF	
2387.19	143.95	2290.68	2243.24	25.14		OSF1.50	9050.00	8757.79				MinPt-SF	
2485.14	150.49	2384.28	2334.66	25.02		OSF1.50	9450.00	9140.30				MinPt-SF	
2626.27	159.53	2519.38	2466.74	24.93		OSF1.50	10110.00	9777.85				MinPt-SF	
2651.89	161.32	2543.81	2490.58	24.89		OSF1.50	10360.00	10026.00				MinPt-SF	
2661.03	161.46	2552.85	2499.57	24.96		OSF1.50	10750.00	10415.79				MinPt-SF	
3105.52	153.60	3002.62	2951.92	30.61		OSF1.50	13300.00	12445.00				MinPt-SF	
3137.72	164.97	3027.25	2972.76	28.78		OSF1.50	14070.00	12445.00				MinPt-ADP	
3141.27	171.24	3026.61	2970.03	27.75		OSF1.50	14340.00	12445.00				MinPt-EOU	
3142.90	173.26	3026.80	2969.64	27.43		OSF1.50	14430.00	12445.00				MinPt-ADP	
3120.75	222.43	2971.96	2898.32	21.18		OSF1.50	15960.00	12445.00				MinPt-CtCt	
3123.05	228.52	2970.20	2894.53	20.63		OSF1.50	16160.00	12445.00				MinPt-EOU	
3125.63	231.64	2970.70	2893.98	20.36		OSF1.50	16260.00	12445.00				MinPt-ADP	
3132.29	248.13	2966.37	2884.16	19.04		OSF1.50	16670.00	12445.00				MinPt-EOU	
3133.97	250.14	2966.71	2883.83	18.90		OSF1.50	16740.00	12445.00				MinPt-ADP	
3143.62	280.08	2956.44	2863.60	16.92		OSF1.50	17450.00	12445.00				MinPts	
3168.24	284.85	2977.84	2883.39	16.76		OSF1.50	17790.00	12445.00				MinPt-SF	
6327.15	257.80	6154.79	6069.35	37.02		OSF1.50	22882.83	12445.00				TD	
30-025-21081 - BRINNINSTOOL P UNIT 1 - INC Only to 17649ft - P&A (DefinitiveSurvey)													Pass
1241.41	32.81	1239.44	1208.61	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
1241.41	32.81	1239.36	1208.61	16366.21		MAS = 10.00 (m)	23.00	23.00				WRP	
1241.41	112.13	1166.07	1129.28	16.85		OSF1.50	1800.00	1800.00				MinPt-CtCt	
1244.31	121.32	1162.84	1122.99	15.59		OSF1.50	1930.00	1929.96				MinPt-EOU	
1247.60	125.35	1163.44	1122.28	15.12		OSF1.50	1990.00	1989.86				MinPt-ADP	
2533.13	414.92	2255.97	2118.20	9.19		OSF1.50	6680.00	6491.40				MinPt-SF	
2987.82	804.69	2450.86	2183.13	5.58		OSF1.50	14430.00	12445.00				MinPts	
2987.85	804.72	2450.87	2183.13	5.58		OSF1.50	14440.00	12445.00				MinPt-ADP	
2988.01	804.79	2450.99	2183.23	5.59		OSF1.50	14460.00	12445.00				MinPt-SF	
8969.70	814.97	8425.89	8154.73	16.54		OSF1.50	22882.83	12445.00				TD	
30-025-40665 - Cimarex Triste Draw 36 State 2H MWD Off to 13691ft (DefinitiveSurvey)													Pass
4031.35	32.81	4029.35	3998.54	199034.16		MAS = 10.00 (m)	0.00	0.00				Surface	
4031.34	32.81	4029.29	3998.53	54512.16		MAS = 10.00 (m)	23.00	23.00				WRP	
4031.19	32.81	4028.26	3998.38	4234.85		MAS = 10.00 (m)	190.00	190.00				MinPts	
4029.67	32.81	4020.35	3996.86	548.99		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4027.09	32.81	4012.69	3994.29	318.44		MAS = 10.00 (m)	1840.00	1840.00				MinPts	
4027.32	32.81	4012.46	3994.51	307.28		MAS = 10.00 (m)	1910.00	1909.97				MinPt-EOU	
1302.42	199.42	1168.63	1103.00	9.90		OSF1.50	9821.00	9495.53				MinPt-CtCt	
1303.45	202.16	1167.59	1101.27	9.80		OSF1.50	9890.00	9562.35				MinPt-EOU	
1303.77	202.54	1167.64	1101.23	9.79		OSF1.50	9900.00	9572.06				MinPt-ADP	
1311.84	206.31	1172.76	1105.53	9.72		OSF1.50	10030.00	9699.10				MinPt-SF	
2796.42	156.79	2687.34	2639.63	29.16		OSF1.50	13470.00	12445.00				MinPt-CtCt	
2796.52	157.02	2687.30	2639.50	29.11		OSF1.50	13490.00	12445.00				MinPt-EOU	
2796.63	157.13	2687.34	2639.49	29.08		OSF1.50	13500.00	12445.00				MinPt-ADP	
2799.17	158.19	2689.24	2640.97	28.86		OSF1.50	13590.00	12445.00				MinPt-SF	
2816.58	148.66	2713.06	2667.92	31.05		OSF1.50	13980.00	12445.00				MinPt-SF	
2880.27	138.35	2783.60	2741.92	34.39		OSF1.50	15040.00	12445.00				MinPt-SF	
2887.43	132.67	2794.46	2754.75	36.19		OSF1.50	15470.00	12445.00				MinPt-SF	
2882.73	133.05	2789.51	2749.68	36.02		OSF1.50	15650.00	12445.00				MinPt-SF	
2830.81	148.05	2727.62	2682.76	31.40		OSF1.50	17040.00	12445.00				MinPt-CtCt	
2831.28	149.67	2727.02	2681.61	31.03		OSF1.50	17100.00	12445.00				MinPt-EOU	
2832.18	150.75	2727.20	2681.43	30.79		OSF1.50	17140.00	12445.00				MinPt-ADP	
3094.66	181.28	2969.73	2913.39	27.35		OSF1.50	18370.00	12445.00				MinPt-SF	
6246.63	210.38	6104.04	6036.25	46.02		OSF1.50	22882.83	12445.00				TD	
Cimarex Triste Draw 25 Fed Com #19H Rev0 RM 31Jul19 (DefinitivePlan)													Pass
4672.09	32.81	4670.11	4639.28	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
4672.09	32.81	4670.06	4639.28	95973.44		MAS = 10.00 (m)	23.00	23.00				WRP	
4672.09	32.81	4661.48	4639.28	539.36		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EO	

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		
	3752.80	32.81	3742.53	3719.99	441.01	MAS = 10.00 (m)	1150.00	1150.00				MinPts	
	3752.81	32.81	3741.05	3720.00	375.29	MAS = 10.00 (m)		1380.00				MinPts	
	3753.07	32.81	3740.78	3720.26	356.38	MAS = 10.00 (m)	1460.00	1460.00				MinPt-EOU	
	3753.12	32.81	3740.03	3720.32	331.08	MAS = 10.00 (m)		1580.00				MinPts	
	3753.28	32.81	3738.57	3720.48	289.69	MAS = 10.00 (m)	1820.00	1820.00				MinPts	
	3753.40	32.81	3738.49	3720.59	285.37	MAS = 10.00 (m)		1850.00				MinPt-EOU	
	1765.40	320.43	1551.24	1444.97	8.30	OSF1.50	9564.84	9250.12				MinPt-CtCt	
	1765.98	322.36	1550.53	1443.61	8.25	OSF1.50	9610.00	9293.31				MinPt-EOU	
	1766.60	323.16	1550.62	1443.44	8.23	OSF1.50	9630.00	9312.43				MinPt-ADP	
	1783.40	329.06	1563.48	1454.34	8.18	OSF1.50	9830.00	9504.22				MinPt-SF	
	3201.28	165.47	3086.88	3035.82	31.22	OSF1.50	13660.00	12445.00				MinPt-ADP	
	3201.13	165.29	3086.85	3035.85	31.26	OSF1.50	13670.00	12445.00				MinPt-EOU	
	3195.79	159.33	3085.47	3036.46	32.48	OSF1.50	13930.00	12445.00				MinPt-ADP	
	3187.50	153.03	3081.41	3034.47	33.83	OSF1.50	14350.00	12445.00				MinPt-ADP	
	3187.44	152.97	3081.35	3034.47	33.84	OSF1.50	14360.00	12445.00				MinPt-EOU	
	3187.26	152.42	3081.58	3034.85	33.97	OSF1.50	14430.00	12445.00				MinPt-CtCt	
	3183.78	147.52	3081.36	3036.27	35.17	OSF1.50	14720.00	12445.00				MinPts	
	3165.65	140.77	3067.68	3024.88	36.83	OSF1.50	15130.00	12445.00				MinPt-SF	
	3159.08	141.09	3060.92	3017.99	36.65	OSF1.50	15460.00	12445.00				MinPts	
	3158.35	140.86	3060.35	3017.49	36.70	OSF1.50	15630.00	12445.00				MinPt-CtCt	
	3158.47	141.24	3060.22	3017.23	36.59	OSF1.50	15670.00	12445.00				MinPt-EOU	
	3158.71	141.53	3060.27	3017.18	36.51	OSF1.50	15700.00	12445.00				MinPt-ADP	
	3159.97	142.25	3061.06	3017.72	36.32	OSF1.50	15780.00	12445.00				MinPt-SF	
	3161.61	142.34	3062.64	3019.28	36.31	OSF1.50	15860.00	12445.00				MinPt-SF	
	3160.59	141.76	3061.98	3018.83	36.48	OSF1.50	16190.00	12445.00				MinPt-CtCt	
	3160.97	142.81	3061.66	3018.16	36.19	OSF1.50	16270.00	12445.00				MinPt-EOU	
	3161.18	143.08	3061.70	3018.10	36.12	OSF1.50	16290.00	12445.00				MinPts	
	3156.22	141.75	3057.59	3014.47	36.46	OSF1.50	16460.00	12445.00				MinPt-SF	
	3146.63	146.89	3044.57	2999.74	34.95	OSF1.50	16780.00	12445.00				MinPt-CtCt	
	3147.11	148.37	3044.08	2998.74	34.57	OSF1.50	16840.00	12445.00				MinPt-EOU	
	3147.93	149.36	3044.24	2998.57	34.33	OSF1.50	16880.00	12445.00				MinPt-ADP	
	3485.35	184.97	3358.32	3300.38	29.98	OSF1.50	18420.00	12445.00				MinPt-SF	
	6554.06	215.21	6408.34	6338.85	47.11	OSF1.50	22882.83	12445.00				TD	
30-025-40343 - Cimarex Triste Draw 36 State 4H Gyro+MWD Off to 15427ft MD (Offset) (DefinitiveSurvey)													Pass
	3754.29	32.81	3752.22	3721.47	50750.50	MAS = 10.00 (m)	0.00	0.00				MinPts	
	3754.30	32.81	3752.15	3721.49	21800.58	MAS = 10.00 (m)	23.00	23.00				WRP	
	3754.48	32.81	3752.04	3721.68	8121.35	MAS = 10.00 (m)	80.00	80.00				MinPt-EOU	
	3751.54	32.81	3742.07	3718.73	500.97	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	3750.77	32.81	3740.01	3717.97	416.61	MAS = 10.00 (m)	1310.00	1310.00				MinPts	
	3752.69	32.81	3738.34	3719.88	297.96	MAS = 10.00 (m)	1820.00	1820.00				MinPt-EOU	
	1976.93	293.37	1780.33	1683.57	10.20	OSF1.50	11280.00	10945.79				MinPt-SF	
	1976.77	293.49	1780.02	1683.29	10.20	OSF1.50	11305.08	10970.87				MinPt-CtCt	
	1976.78	293.51	1780.00	1683.27	10.20	OSF1.50	11310.00	10975.79				MinPt-ADP	
	1976.83	293.54	1780.00	1683.29	10.20	OSF1.50	11320.00	10985.79				MinPt-EOU	
	2443.45	196.09	2308.78	2247.35	19.79	OSF1.50	13800.00	12445.00				MinPt-ADP	
	2443.27	195.88	2308.74	2247.39	19.82	OSF1.50	13810.00	12445.00				MinPt-EOU	
	2441.27	192.87	2308.76	2248.39	20.12	OSF1.50	13930.00	12445.00				MinPt-EOU	
	2431.78	176.65	2310.06	2255.13	22.03	OSF1.50	14480.00	12445.00				MinPts	
	2428.42	173.24	2308.96	2255.10	22.47	OSF1.50	14580.00	12445.00				MinPt-ADP	
	2422.78	170.53	2305.13	2252.25	22.80	OSF1.50	14720.00	12445.00				MinPts	
	2410.83	164.32	2297.30	2246.51	23.62	OSF1.50	15030.00	12445.00				MinPts	
	2377.30	152.21	2271.69	2225.09	25.37	OSF1.50	15370.00	12445.00				MinPt-SF	
	2305.56	153.90	2198.82	2151.65	24.31	OSF1.50	16350.00	12445.00				MinPt-SF	
	2304.01	155.20	2196.41	2148.81	24.07	OSF1.50	16510.00	12445.00				MinPt-CtCt	
	2304.31	156.07	2196.14	2148.24	23.92	OSF1.50	16560.00	12445.00				MinPt-EOU	
	2304.74	156.60	2196.22	2148.14	23.84	OSF1.50	16590.00	12445.00				MinPt-ADP	
	2345.68	166.75	2230.52	2178.94	22.62	OSF1.50	17190.00	12445.00				MinPt-SF	
	2485.94	182.64	2360.47	2303.30	21.64	OSF1.50	17860.00	12445.00				MinPt-SF	
	6144.91	203.30	6007.69	5941.60	46.46	OSF1.50	22882.83	12445.00				TD	
30-025-41150 - TRISTE DRAW 25 FEDERAL COM 3H - MWD to 15359ft - A (DefinitiveSurvey)													Pass
	4478.55	32.81	4476.57	4445.74	1182004.42	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4478.63	32.81	4476.60	4445.82	85712.54	MAS = 10.00 (m)	23.00	23.00				WRP	
	4488.18	32.81	4479.59	4455.38	678.60	MAS = 10.00 (m)	740.00	740.00				MinPt-EOU	
	4490.09	32.81	4477.84	4457.28	436.91	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4489.89	32.81	4475.27	4457.08	349.14	MAS = 10.00 (m)	1350.00	1350.00				MinPts	
	4489.75	32.81	4470.55	4456.95	257.20	MAS = 10.00 (m)	1810.00	1810.00				MinPts	
	4490.10	32.81	4470.23	4457.30	247.83	MAS = 10.00 (m)	1880.00	1879.99				MinPt-EOU	
	5778.81	175.75	5661.10	5603.06	49.76	OSF1.50	10770.00	10435.79				MinPts	
	5778.82	175.76	5661.10	5603.06	49.76	OSF1.50	10780.00	10445.79				MinPt-ADP	
	5779.56	175.83	5661.80	5603.73	49.75	OSF1.50	10880.00	10545.79				MinPt-SF	
	2223.89	212.94	2081.43	2010.95	15.77	OSF1.50	19200.00	12445.00				MinPt-CtCt	
	2205.84	271.91	2024.06	1933.93	12.23	OSF1.50	21151.64	12445.00				MinPt-CtCt	
	2207.50	277.82	2021.78	1929.68	11.98	OSF1.50	21330.00	12445.00				MinPt-EOU	
	2209.99	280.81	2022.28	1929.18	11.86	OSF1.50	21420.00	12445.00				MinPt-ADP	
	2207.52	327.49	1988.69	1880.03	10.15	OSF1.50	22660.00	12445.00				MinPt-CtCt	
	2207.83	328.56	1988.29	1879.27	10.12	OSF1.50	22700.00	12445.00				MinPt-EOU	
	2208.26	329.06	1988.38	1879.19	10.11	OSF1.50	22720.00	12445.00				MinPt-ADP	
	2218.45	332.55	1996.25	1885.90	10.05	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-42102 - Cimarex Triste Draw 25 Federal Com 8H MWD Off to 14100ft (DefinitiveSurvey)													Pass
	4740.29	32.81	4738.31	4707.48	N/A	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4740.30	32.81	4738.27	4707.49	81096.73	MAS = 10.00 (m)	23.00	23.00				WRP	
	4740.47	32.81	4738.20	4707.66	16393.23	MAS = 10.00 (m)	80.00	80.00				MinPt-EOU	
	4740.77	32.81	4738.20	4707.96	8022.74	MAS = 10.00 (m)	130.00	130.00				MinPt-EOU	
	4741.62	32.81	4738.29	4708.81	3502.07	MAS = 10.00 (m)	220.00	220.00				MinPt-EOU	
	4742.21	32.81	4738.28	4709.40	2433.86	MAS = 10.00 (m)	280.00	280.00				MinPt-EOU	
	4746.70	32.81	4736.96	4713.89	610.8								

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		
	2615.91	277.49	2430.42	2338.42	14.21	OSF1.50	22720.00	12445.00				MinPt-ADP	
	2625.15	281.41	2437.05	2343.74	14.06	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-42082 - Cimarex Triste Draw 25 Federal Com 10H MWD Off to 14126ft (DefinitiveSurvey)													Pass
	4740.29	32.81	4738.31	4707.48	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4740.28	32.81	4738.20	4707.47	49522.34	MAS = 10.00 (m)	23.00	23.00				WRP	
	4731.18	32.81	4718.70	4698.37	450.53	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4728.91	32.81	4712.31	4696.11	318.54	MAS = 10.00 (m)	1550.00	1550.00				MinPts	
	4729.52	32.81	4710.44	4696.72	272.94	MAS = 10.00 (m)	1820.00	1820.00				MinPt-EOU	
	5734.33	174.30	5617.59	5560.03	49.80	OSF1.50	10360.00	10026.00				MinPt-SF	
	2685.26	174.37	2568.54	2510.92	23.29	OSF1.50	18660.00	12445.00				MinPt-CiCt	
	2685.87	176.14	2567.94	2509.73	23.06	OSF1.50	18730.00	12445.00				MinPt-EOU	
	2686.74	177.16	2568.14	2509.58	22.93	OSF1.50	18770.00	12445.00				MinPt-ADP	
	2695.58	181.46	2574.11	2514.13	22.48	OSF1.50	18960.00	12445.00				MinPt-SF	
	2696.52	182.24	2574.62	2514.27	22.37	OSF1.50	19030.00	12445.00				MinPt-EOU	
	2697.65	183.63	2574.73	2514.02	22.21	OSF1.50	19090.00	12445.00				MinPt-ADP	
	2698.95	184.99	2575.13	2513.97	22.05	OSF1.50	19160.00	12445.00				MinPt-ADP	
	2699.27	188.20	2572.30	2510.07	21.67	OSF1.50	19320.00	12445.00				MinPt-CiCt	
	2685.24	208.77	2545.56	2476.47	19.42	OSF1.50	20193.25	12445.00				MinPt-CiCt	
	2686.20	211.59	2544.64	2474.61	19.17	OSF1.50	20300.00	12445.00				MinPt-EOU	
	2687.55	213.16	2544.94	2474.39	19.04	OSF1.50	20360.00	12445.00				MinPt-ADP	
	2692.93	230.84	2538.54	2462.09	17.60	OSF1.50	21060.00	12445.00				MinPt-CiCt	
	2694.32	235.97	2536.51	2458.35	17.23	OSF1.50	21250.00	12445.00				MinPt-EOU	
	2686.34	238.41	2536.90	2457.94	17.06	OSF1.50	21340.00	12445.00				MinPt-ADP	
	2702.63	251.04	2534.76	2451.58	16.24	OSF1.50	21810.00	12445.00				MinPt-CiCt	
	2703.55	253.84	2533.83	2449.72	16.06	OSF1.50	21910.00	12445.00				MinPt-EOU	
	2687.99	274.53	2504.47	2413.46	14.76	OSF1.50	22650.00	12445.00				MinPt-CiCt	
	2688.38	275.94	2503.92	2412.44	14.69	OSF1.50	22700.00	12445.00				MinPt-EOU	
	2689.07	276.76	2504.06	2412.31	14.65	OSF1.50	22730.00	12445.00				MinPt-ADP	
	2697.73	280.65	2510.12	2417.07	14.49	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-47637 - WILD SALSA FED COM 323H - MWD to 23192ft - A (DefinitiveSurvey)													Pass
	8872.23	32.81	8870.20	8839.42	171628.66	MAS = 10.00 (m)	0.00	0.00				MinPts	
	8872.31	32.81	8870.23	8839.50	86084.28	MAS = 10.00 (m)	23.00	23.00				WRP	
	8875.16	32.81	8862.35	8842.36	819.11	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	8870.61	32.81	8850.75	8837.81	489.97	MAS = 10.00 (m)	1840.00	1840.00				MinPts	
	8870.82	32.81	8850.55	8838.02	479.09	MAS = 10.00 (m)	1880.00	1879.99				MinPt-EOU	
	8916.77	40.77	8889.00	8876.00	342.84	OSF1.50	2490.00	2483.35				MinPts	
	9848.19	137.23	9756.16	9710.96	108.91	OSF1.50	7880.00	7638.94				MinPt-ADP	
	10168.79	170.87	10054.33	9997.91	90.10	OSF1.50	9726.51	9404.73				MinPt-ADP	
	10214.06	188.53	10087.83	10025.53	81.95	OSF1.50	11550.00	11215.79				MinPt-CiCt	
	10214.06	188.72	10087.71	10025.34	81.87	OSF1.50	11580.00	11245.79				MinPt-EOU	
	10214.08	188.73	10087.71	10025.34	81.87	OSF1.50	11590.00	11255.79				MinPt-ADP	
	10225.20	191.86	10096.75	10033.33	80.61	OSF1.50	12100.00	11765.79				MinPts	
	10226.15	191.89	10097.68	10034.26	80.60	OSF1.50	12160.00	11825.79				MinPt-SF	
	2691.44	297.85	2492.38	2393.60	13.62	OSF1.50	22882.83	12445.00				MinPts	
Cimarex Triste Draw 25 Federal #3H Pilot Gyro-MWD Off to 10322.56ft MD (DefinitiveSurvey)													Pass
	4478.55	32.81	4476.57	4445.75	1176012.68	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4478.63	32.81	4476.61	4445.82	117232.68	MAS = 10.00 (m)	23.00	23.00				WRP	
	4487.53	32.81	4481.06	4454.73	997.23	MAS = 10.00 (m)	670.00	670.00				MinPt-EOU	
	4490.06	32.81	4480.44	4457.25	587.50	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4489.81	32.81	4478.43	4457.00	466.80	MAS = 10.00 (m)	1360.00	1360.00				MinPts	
	4489.65	32.81	4475.14	4456.84	352.09	MAS = 10.00 (m)	1810.00	1810.00				MinPts	
	4489.82	32.81	4474.98	4457.01	343.05	MAS = 10.00 (m)	1860.00	1860.00				MinPt-EOU	
	5774.73	139.19	5681.36	5635.53	62.99	OSF1.50	10400.00	10065.90				MinPt-SF	
	5779.38	140.01	5685.46	5639.36	62.67	OSF1.50	10640.00	10305.79				MinPts	
	2719.34	170.90	2601.14	2548.44	25.68	OSF1.50	18050.00	12445.00				MinPt-CiCt	
	2719.99	172.77	2600.55	2547.22	25.38	OSF1.50	18110.00	12445.00				MinPt-EOU	
	2720.81	173.70	2600.75	2547.11	25.24	OSF1.50	18140.00	12445.00				MinPt-ADP	
	2886.34	196.90	2751.03	2689.44	23.33	OSF1.50	19017.89	12445.00				MinPt-SF	
	5545.08	213.01	5400.74	5332.06	40.32	OSF1.50	22882.83	12445.00				TD	
30-025-31929 - TRISTE DRAW 36 STATE 001 - INC Only to 9150ft - P&G (DefinitiveSurvey)													Pass
	2792.41	32.81	2790.40	2759.60	99199.29	MAS = 10.00 (m)	0.00	0.00				Surface	
	2792.41	32.81	2790.00	2759.60	6451.98	MAS = 10.00 (m)	23.00	23.00				WRP	
	2725.13	251.01	2557.20	2474.11	16.39	OSF1.50	4309.61	4224.64				MinPt-CiCt	
	2774.10	396.97	2508.91	2377.13	10.52	OSF1.50	6080.00	5917.63				MinPt-EOU	
	2803.75	432.72	2514.74	2371.04	9.75	OSF1.50	6560.00	6376.65				MinPt-ADP	
	3111.44	619.55	2697.87	2491.89	7.55	OSF1.50	9440.00	9130.74				MinPt-SF	
	3322.38	148.67	3222.77	3173.71	33.85	OSF1.50	15730.00	12445.00				MinPt-CiCt	
	3323.18	150.42	3222.39	3172.75	33.46	OSF1.50	15800.00	12445.00				MinPt-EOU	
	3327.96	155.88	3223.54	3172.08	32.32	OSF1.50	15920.00	12445.00				MinPt-EOU	
	4532.23	451.98	4230.42	4080.26	15.09	OSF1.50	18810.00	12445.00				MinPt-SF	
	7889.20	582.90	7500.10	7306.30	20.35	OSF1.50	22882.83	12445.00				TD	
30-025-43998 - Cimarex Triste Draw 25 Federal 12H MWD Off to 14078ft (DefinitiveSurvey)													Pass
	4633.06	32.81	4631.02	4600.25	79485.52	MAS = 10.00 (m)	0.00	0.00				Surface	
	4633.02	32.81	4630.89	4600.21	29921.46	MAS = 10.00 (m)	23.00	23.00				WRP	
	4621.89	32.81	4609.53	4589.09	444.82	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4619.40	32.81	4604.42	4586.59	349.42	MAS = 10.00 (m)	1400.00	1400.00				MinPts	
	4621.62	32.81	4603.45	4588.82	281.40	MAS = 10.00 (m)	1750.00	1750.00				MinPt-EOU	
	5104.83	90.98	5043.64	5013.85	85.66	OSF1.50	5450.00	5315.17				MinPt-ADP	
	5867.08	172.48	5751.56	5694.60	51.49	OSF1.50	10300.00	9966.22				MinPt-SF	
	2839.00	177.67	2720.05	2661.33	24.16	OSF1.50	18760.00	12445.00				MinPt-CiCt	
	2839.62	179.67	2719.35	2659.96	23.89	OSF1.50	18840.00	12445.00				MinPt-EOU	
	2840.65	180.89	2719.56	2659.76	23.74	OSF1.50	18890.00	12445.00				MinPt-ADP	
	2843.73	183.11	2721.16	2660.63	23.48	OSF1.50	18980.00	12445.00				MinPt-SF	
	2846.20	185.48	2722.04	2660.72	23.19	OSF1.50	19130.00	12445.00				MinPt-EOU	
	2847.24	186.70	2722.27	2660.54	23.05	OSF1.50	19180.00	12445.00				MinPt-ADP	
	2848.67	187.92	2722.89	2660.76	22.91	OSF1.50	19230.00	12445.00				MinPt-SF	
	2846.64	194.38	2716.55	2652.									

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		
	2847.14	225.14	2696.52	2621.97	19.09	OSF1.50	20850.00	12445.00				MinPt-CtCt	
	2834.27	245.37	2670.19	2588.90	17.42	OSF1.50	21627.14	12445.00				MinPt-CtCt	
	2835.45	249.27	2668.76	2586.17	17.16	OSF1.50	21770.00	12445.00				MinPt-EOU	
	2836.59	250.63	2669.00	2585.95	17.07	OSF1.50	21820.00	12445.00				MinPt-ADP	
	2836.41	264.18	2659.80	2572.24	16.19	OSF1.50	22320.00	12445.00				MinPt-CtCt	
	2837.36	266.96	2658.89	2570.40	16.02	OSF1.50	22420.00	12445.00				MinPt-EOU	
	2838.28	268.05	2659.08	2570.23	15.96	OSF1.50	22460.00	12445.00				MinPt-ADP	
	2843.76	275.00	2659.92	2568.76	15.59	OSF1.50	22710.00	12445.00				MinPt-EOU	
	2844.21	275.55	2660.02	2568.67	15.56	OSF1.50	22730.00	12445.00				MinPt-ADP	
	2852.32	279.45	2665.52	2572.86	15.38	OSF1.50	22882.83	12445.00				MinPt-SF	
Cimarex Diamondtail 23 Federal 8H MWD Surveys to 14264ft (DefinitiveSurvey)													Pass
	14003.75	118.06	13924.39	13885.69	180.93	OSF1.50	0.00	0.00				Surface	
	13987.81	118.15	13908.38	13869.65	180.58	OSF1.50	23.00	23.00				WRP	
	10742.44	164.69	10632.11	10577.75	98.79	OSF1.50	8730.00	8451.78				MinPt-CtCt	
	10742.81	165.84	10631.71	10576.97	98.11	OSF1.50	8820.00	8537.85				MinPt-EOU	
	10743.34	166.48	10631.82	10576.86	97.73	OSF1.50	8870.00	8585.66				MinPt-ADP	
	10839.27	184.02	10716.06	10655.26	89.13	OSF1.50	10400.00	10065.90				MinPt-SF	
	2860.63	285.71	2669.66	2574.92	15.09	OSF1.50	22882.83	12445.00				MinPts	
30-025-47632 - WILD SALSA FED COM 224H - MWD to 22026ft - A (DefinitiveSurvey)													Pass
	8784.63	32.81	8782.62	8751.87	108448.97	MAS = 10.00 (m)	0.00	0.00				MinPts	
	8784.73	32.81	8782.60	8751.92	61319.52	MAS = 10.00 (m)	23.00	23.00				WRP	
	8786.43	32.81	8778.81	8753.62	1557.54	MAS = 10.00 (m)	620.00	620.00				MinPts	
	8785.72	32.81	8773.41	8752.91	849.79	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	8785.54	32.81	8770.29	8752.74	651.13	MAS = 10.00 (m)	1490.00	1410.00				MinPts	
	8786.43	32.81	8769.26	8753.62	570.14	MAS = 10.00 (m)	1640.00	1640.00				MinPt-EOU	
	8815.13	35.24	8791.05	8779.89	394.83	OSF1.50	2180.00	2178.89				MinPts	
	8885.73	52.91	8949.87	8932.82	263.46	OSF1.50	3300.00	3259.17				MinPt-ADP	
	10234.24	180.64	10113.28	10053.60	85.73	OSF1.50	10790.00	10455.79				MinPt-CtCt	
	10234.25	180.65	10113.28	10053.60	85.73	OSF1.50	10800.00	10465.79				MinPts	
	10240.01	180.90	10118.87	10059.11	85.66	OSF1.50	11170.00	10835.79				MinPt-SF	
	2939.45	283.53	2749.93	2655.92	15.63	OSF1.50	22882.83	12445.00				MinPts	
30-025-42198 - Cimarex Triste Draw 25 Federal Com 9H MWD Off to 13793ft (DefinitiveSurvey)													Pass
	4740.29	32.81	4738.31	4707.48	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4740.27	32.81	4738.18	4707.46	43256.05	MAS = 10.00 (m)	23.00	23.00				WRP	
	4737.60	32.81	4730.78	4704.79	978.38	MAS = 10.00 (m)	550.00	550.00				MinPts	
	4739.06	32.81	4726.93	4706.25	466.92	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4739.06	32.81	4727.05	4706.25	462.50	MAS = 10.00 (m)	1100.00	1100.00				MinPts	
	4741.73	32.81	4721.87	4708.93	261.82	MAS = 10.00 (m)	1880.00	1879.99				MinPts	
	4742.28	32.81	4721.03	4709.47	243.24	MAS = 10.00 (m)	2020.00	2019.78				MinPt-EOU	
	5709.54	171.29	5594.81	5538.25	50.46	OSF1.50	10100.00	9767.99				MinPt-SF	
	2986.53	172.87	2872.78	2815.66	26.14	OSF1.50	18650.00	12445.00				MinPt-CtCt	
	2989.22	175.01	2872.05	2814.21	25.83	OSF1.50	18740.00	12445.00				MinPt-EOU	
	2989.39	175.25	2872.05	2814.14	25.79	OSF1.50	18750.00	12445.00				MinPt-ADP	
	2982.96	182.81	2860.58	2800.14	24.67	OSF1.50	19130.00	12445.00				MinPt-SF	
	2964.13	196.70	2832.49	2767.43	22.77	OSF1.50	19730.00	12445.00				MinPt-CtCt	
	2956.33	207.82	2819.28	2750.51	21.50	OSF1.50	20188.28	12445.00				MinPt-CtCt	
	2960.07	212.46	2817.93	2747.61	21.04	OSF1.50	20370.00	12445.00				MinPt-EOU	
	2961.75	214.52	2818.24	2747.23	20.85	OSF1.50	20450.00	12445.00				MinPt-ADP	
	2964.84	218.26	2818.82	2746.55	20.50	OSF1.50	20600.00	12445.00				MinPt-EOU	
	2967.37	221.87	2818.95	2745.49	20.19	OSF1.50	20740.00	12445.00				MinPt-EOU	
	2969.13	223.97	2819.32	2745.16	20.01	OSF1.50	20820.00	12445.00				MinPt-ADP	
	2974.00	232.61	2818.43	2741.39	19.29	OSF1.50	21150.00	12445.00				MinPt-EOU	
	2978.96	243.09	2816.40	2735.87	18.49	OSF1.50	21540.00	12445.00				MinPt-EOU	
	2985.62	255.99	2814.46	2729.63	17.59	OSF1.50	22010.00	12445.00				MinPt-EOU	
	2987.19	257.89	2814.76	2729.30	17.47	OSF1.50	22080.00	12445.00				MinPt-ADP	
	2990.68	261.51	2815.84	2729.17	17.24	OSF1.50	22210.00	12445.00				MinPt-ADP	
	3010.42	274.44	2826.96	2735.88	16.54	OSF1.50	22670.00	12445.00				MinPt-ADP	
	3020.10	279.92	2832.99	2740.16	16.26	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-43997 - Cimarex Triste Draw 25 Federal 11H MWD Off to 13774ft (DefinitiveSurvey)													Pass
	4740.25	32.81	4738.31	4707.49	6024184.63	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4740.31	32.81	4738.26	4707.50	72706.90	MAS = 10.00 (m)	23.00	23.00				WRP	
	4742.78	32.81	4732.55	4709.97	574.75	MAS = 10.00 (m)	910.00	910.00				MinPts	
	4742.77	32.81	4731.15	4709.97	491.51	MAS = 10.00 (m)	1050.00	1050.00				MinPts	
	4742.79	32.81	4730.78	4709.98	472.73	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4744.36	32.81	4728.58	4711.55	337.65	MAS = 10.00 (m)	1510.00	1510.00				MinPt-EOU	
	4745.71	32.81	4728.31	4712.90	303.28	MAS = 10.00 (m)	1670.00	1670.00				MinPt-EOU	
	5763.17	167.96	5650.65	5595.21	51.96	OSF1.50	10100.00	9767.99				MinPt-SF	
	3030.69	178.90	2910.92	2851.79	25.61	OSF1.50	18890.00	12445.00				MinPt-CtCt	
	3031.66	181.86	2909.90	2849.77	25.20	OSF1.50	19017.89	12445.00				MinPt-EOU	
	3032.44	182.88	2910.03	2849.57	25.07	OSF1.50	19060.00	12445.00				MinPt-ADP	
	3033.40	185.56	2909.20	2847.85	24.71	OSF1.50	19200.00	12445.00				MinPts	
	3030.01	190.42	2902.56	2839.59	24.05	OSF1.50	19421.95	12445.00				MinPt-CtCt	
	3030.83	192.90	2901.73	2837.93	23.74	OSF1.50	19520.00	12445.00				MinPt-EOU	
	3031.16	194.27	2901.15	2836.89	23.58	OSF1.50	19590.00	12445.00				MinPt-CtCt	
	3033.30	201.31	2898.59	2831.99	22.76	OSF1.50	19880.00	12445.00				MinPt-EOU	
	3035.37	203.79	2899.01	2831.58	22.50	OSF1.50	19980.00	12445.00				MinPt-ADP	
	3037.47	205.66	2899.86	2831.81	22.31	OSF1.50	20060.00	12445.00				MinPt-SF	
	3033.01	211.58	2891.46	2821.43	21.65	OSF1.50	20310.00	12445.00				MinPt-CtCt	
	3034.25	215.22	2890.27	2819.03	21.29	OSF1.50	20450.00	12445.00				MinPt-EOU	
	3035.74	217.04	2890.55	2818.70	21.12	OSF1.50	20520.00	12445.00				MinPt-ADP	
	3044.47	229.23	2891.15	2815.24	20.04	OSF1.50	21000.00	12445.00				MinPt-CtCt	
	3045.47	232.21	2890.16	2813.26	19.79	OSF1.50	21110.00	12445.00				MinPt-EOU	
	3046.37	233.28	2890.34	2813.08	19.70	OSF1.50	21150.00	12445.00				MinPt-ADP	
	3046.84	237.19	2888.21	2809.65	19.38	OSF1.50	21300.00	12445.00				MinPt-CtCt	
	3048.25	241.26	2886.91	2807.00	19.06	OSF1.50	21450.00	12445.00				MinPt-EOU	
	3050.07	243.41	2887.30	2806.67	18.90	OSF1.50	21530.00	12445.00					

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		
4619.27	32.81	4603.10	4586.47	320.36	MAS = 10.00 (m)	1530.00	1530.00					MinPt-EOU	
5870.38	166.30	5758.97	5704.08	53.46	OSF 1.50	10000.00	9669.68					MinPt-SF	
3197.66	183.26	3074.99	3014.40	26.38	OSF 1.50	19030.00	12445.00					MinPt-CiCt	
3196.78	187.54	3071.26	3009.24	25.76	OSF 1.50	19240.00	12445.00					MinPts	
3187.69	197.30	3055.66	2990.39	24.41	OSF 1.50	19680.00	12445.00					MinPt-CiCt	
3177.47	213.80	3034.43	2963.66	22.44	OSF 1.50	20382.56	12445.00					MinPt-CiCt	
3178.93	218.58	3032.71	2960.35	21.96	OSF 1.50	20570.00	12445.00					MinPt-EOU	
3180.44	220.38	3033.02	2960.06	21.79	OSF 1.50	20640.00	12445.00					MinPt-ADP	
3183.54	223.13	3034.29	2960.41	21.54	OSF 1.50	20750.00	12445.00					MinPt-SF	
3183.67	225.64	3032.74	2958.03	21.30	OSF 1.50	20860.00	12445.00					MinPt-CiCt	
3184.68	228.82	3031.64	2955.86	21.00	OSF 1.50	20980.00	12445.00					MinPt-EOU	
3187.40	232.92	3031.62	2954.48	20.65	OSF 1.50	21140.00	12445.00					MinPt-EOU	
3190.68	237.31	3031.97	2953.37	20.29	OSF 1.50	21310.00	12445.00					MinPt-EOU	
3192.22	239.17	3032.28	2953.06	20.14	OSF 1.50	21380.00	12445.00					MinPt-ADP	
3195.09	242.28	3033.08	2952.82	19.90	OSF 1.50	21500.00	12445.00					MinPt-EOU	
3196.87	244.41	3033.43	2952.46	19.73	OSF 1.50	21580.00	12445.00					MinPt-ADP	
3200.72	249.39	3033.96	2951.33	19.36	OSF 1.50	21770.00	12445.00					MinPt-CiCt	
3203.02	255.89	3031.92	2947.12	18.88	OSF 1.50	22010.00	12445.00					MinPt-EOU	
3206.47	259.96	3032.66	2946.51	18.60	OSF 1.50	22160.00	12445.00					MinPt-ADP	
3216.60	275.17	3032.66	2941.43	17.62	OSF 1.50	22710.00	12445.00					MinPt-EOU	
3217.25	275.96	3032.77	2941.29	17.57	OSF 1.50	22740.00	12445.00					MinPt-ADP	
3224.16	279.56	3037.29	2944.60	17.38	OSF 1.50	22882.83	12445.00					MinPt-SF	
30-025-47640 - WILD SALSA FED COM 404H - MWD to 23199ft - A (DefinitiveSurvey)													
8876.64	32.81	8874.65	8843.83	880814.27	MAS = 10.00 (m)	0.00	0.00					Pass	
8876.76	32.81	8874.73	8843.95	174842.65	MAS = 10.00 (m)	23.00	23.00					MinPts	
8903.14	32.81	8889.27	8870.33	735.33	MAS = 10.00 (m)	1310.00	1310.00					WRP	
8910.58	32.81	8892.22	8877.77	536.45	MAS = 10.00 (m)	1760.00	1760.00					MinPt-EOU	
8912.89	32.81	8891.46	8880.08	453.18	MAS = 10.00 (m)	1930.00	1929.96					MinPt-EOU	
9235.44	61.79	9193.66	9173.65	230.75	OSF 1.50	3880.00	3813.81					MinPt-ADP	
10572.78	175.07	10455.53	10397.71	91.42	OSF 1.50	10370.00	10035.97					MinPts	
10566.98	182.53	10444.75	10384.45	87.60	OSF 1.50	11430.00	11095.79					MinPt-CiCt	
10567.02	182.65	10444.72	10384.37	87.54	OSF 1.50	11470.00	11135.79					MinPt-EOU	
10567.04	182.68	10444.72	10384.37	87.53	OSF 1.50	11480.00	11145.79					MinPt-ADP	
3294.18	297.53	3095.32	2996.65	16.68	OSF 1.50	22806.47	12445.00					MinPt-CiCt	
3294.78	299.28	3094.74	2995.48	16.59	OSF 1.50	22880.00	12445.00					MinPt-EOU	
3294.81	299.35	3094.74	2995.46	16.59	OSF 1.50	22882.83	12445.00					MinPts	
Cimarex Triste Draw 25 Federal #15H Rev0 RM 22Mar17 (NonDefinitivePlan)													
4633.40	32.81	4631.39	4600.59	208440.27	MAS = 10.00 (m)	0.00	0.00					Pass	
4633.40	32.81	4631.34	4600.59	63163.72	MAS = 10.00 (m)	23.00	23.00					Surface	
4633.40	32.81	4622.74	4600.59	533.69	MAS = 10.00 (m)	1090.00	1090.00					WRP	
4633.40	32.81	4617.02	4600.59	316.87	MAS = 10.00 (m)	1800.00	1800.00					MinPt-EOU	
4633.61	32.81	4616.82	4600.80	308.30	MAS = 10.00 (m)	1850.00	1850.00					MinPts	
6143.66	149.11	6043.31	5994.56	62.98	OSF 1.50	10360.00	10026.00					MinPt-EOU	
3327.98	267.16	3145.92	3060.79	19.48	OSF 1.50	21670.00	12445.00					MinPt-SF	
3328.53	300.47	3124.26	3028.06	17.24	OSF 1.50	22720.00	12445.00					MinPt-CiCt	
3328.96	300.97	3124.35	3027.99	17.21	OSF 1.50	22740.00	12445.00					MinPt-EOU	
3335.54	304.31	3128.61	3031.23	17.06	OSF 1.50	22882.83	12445.00					MinPt-ADP	
Cimarex Triste Draw 25 Federal #14H Rev1 RM 09May19 (DefinitivePlan)													
4574.18	32.81	4572.18	4541.37	216605.63	MAS = 10.00 (m)	0.00	0.00					Pass	
4574.18	32.81	4572.13	4541.37	63315.49	MAS = 10.00 (m)	23.00	23.00					Surface	
4574.18	32.81	4563.52	4541.37	526.50	MAS = 10.00 (m)	1090.00	1090.00					WRP	
4574.18	32.81	4557.80	4541.37	312.69	MAS = 10.00 (m)	1800.00	1800.00					MinPt-EOU	
4574.40	32.81	4557.61	4541.59	304.23	MAS = 10.00 (m)	1850.00	1850.00					MinPts	
5961.52	143.82	5864.46	5817.70	63.71	OSF 1.50	10300.00	9966.22					MinPt-EOU	
3394.72	278.13	3205.17	3116.59	19.09	OSF 1.50	22656.81	12445.00					MinPt-SF	
3395.31	279.86	3204.58	3115.46	18.98	OSF 1.50	22720.00	12445.00					MinPt-CiCt	
3396.00	280.64	3204.72	3115.36	18.93	OSF 1.50	22750.00	12445.00					MinPt-EOU	
3402.24	283.98	3208.66	3118.26	18.73	OSF 1.50	22882.83	12445.00					MinPt-ADP	
Cimarex Triste Draw 25 Federal #14H Rev0 RM 22Mar17 (NonDefinitivePlan)													
4633.20	32.81	4631.19	4600.39	210536.63	MAS = 10.00 (m)	0.00	0.00					Pass	
4633.20	32.81	4631.14	4600.39	63352.97	MAS = 10.00 (m)	23.00	23.00					Surface	
4633.20	32.81	4622.54	4600.39	533.68	MAS = 10.00 (m)	1090.00	1090.00					WRP	
4633.20	32.81	4616.82	4600.39	316.86	MAS = 10.00 (m)	1800.00	1800.00					MinPt-EOU	
4633.41	32.81	4616.62	4600.60	308.29	MAS = 10.00 (m)	1850.00	1850.00					MinPts	
6175.16	146.96	6076.10	6028.20	64.42	OSF 1.50	10300.00	9966.22					MinPt-EOU	
3509.63	291.74	3311.16	3217.89	18.75	OSF 1.50	22657.45	12445.00					MinPt-SF	
3510.19	293.29	3310.65	3216.90	18.66	OSF 1.50	22720.00	12445.00					MinPt-CiCt	
3510.60	293.77	3310.79	3216.83	18.63	OSF 1.50	22740.00	12445.00					MinPt-EOU	
3516.86	297.04	3314.73	3219.82	18.46	OSF 1.50	22882.83	12445.00					MinPt-ADP	
30-025-47639 - WILD SALSA FED COM 093H - MWD to 20738ft - A (DefinitiveSurvey)													
8867.00	32.81	8864.99	8834.19	294626.78	MAS = 10.00 (m)	0.00	0.00					Pass	
8867.10	32.81	8865.05	8834.29	117906.64	MAS = 10.00 (m)	23.00	23.00					MinPts	
8859.64	32.81	8844.53	8826.84	663.19	MAS = 10.00 (m)	1400.00	1400.00					WRP	
8860.32	32.81	8843.96	8827.51	606.54	MAS = 10.00 (m)	1560.00	1560.00					MinPt-EOU	
8885.23	39.94	8858.01	8845.28	348.97	OSF 1.50	2190.00	2188.80					MinPt-EOU	
8885.31	40.03	8858.04	8845.28	348.17	OSF 1.50	2200.00	2198.70					MinPt-ADP	
9310.66	81.07	9256.02	9229.59	176.07	OSF 1.50	4720.00	4617.09					MinPts	
9494.40	99.09	9427.81	9395.31	146.08	OSF 1.50	5680.00	5535.12					MinPts	
9888.73	139.87	9794.95	9748.87	107.27	OSF 1.50	7770.00	7533.75					MinPt-ADP	
10354.63	176.83	10236.21	10177.81	88.63	OSF 1.50	10360.00	10026.00					MinPt-EOU	
3751.92	269.72	3571.61	3482.20	20.97	OSF 1.50	22882.83	12445.00					MinPt-SF	
30-025-42081 - Cimarex Triste Draw 25 Federal 7H MWD Off to 14577ft (DefinitiveSurvey)													
4734.95	32.81	4733.00	4702.18	500981.20	MAS = 10.00 (m)	0.00	0.00					Pass	
4735.06	32.81	4733.03	4702.25	97626.74	MAS = 10.00 (m)	23.00	23.00					MinPts	
4736.85	32.81	4733.38	4704.04	3108.70	MAS = 10.00 (m)	260.00	260.00					WRP	
4738.66	32.81	4730.22	4705.85	733.73	MAS = 10.00 (m)	950.00	950.00					MinPt-EOU	
4738.92	32.81	4729.50	4706.11	636.39	MAS = 10.00 (m)	1090.00	1090.00					MinPts	
4742.17	32.81	4727.99	4709.36	381.74	MAS = 10.00 (m)	1810.00	1810.00					MinPt-EOU	
6144.87	132.34	6056.38	6012.53	71.65	OSF 1.50	10360.00	10026.00					MinPt-SF	
3801.38	182.84	3675.64	3618.54	33.19	OSF 1.50	18500.00	12445.00					MinPt-EOU	
3802.35	185.77	3674.63	3618.57	32.64	OSF 1.50	18620.00	12445.00					MinPt-CiCt	
3804.66	188.59	3675.07	3616.06	32.14	OSF 1.50	18740.00	12445.00					MinPt-EOU	
3812.16	200.20	3674.84	3611.97	30.23	OSF 1.50	19210.00	12445.00					MinPt-ADP	
3813.67	202.04	3675.11	3611.63	29.95	OSF 1.50	19280.00	12445.00					MinPt-EOU	
3777.34	268.15	3594.67	3509.19	22.03	OSF 1.50	21265.97	12445.00					MinPt-ADP	
3788.49	303.53	3582.21	3484.96	19.42	OSF 1.50	22230.00	12445.00					MinPt-CiCt	

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		
	3788.99	307.15	3580.33	3481.83	19.18	OSF1.50	22280.00	12445.00				MinPt-CtCt	
	3790.76	344.51	3557.20	3446.25	17.03	OSF1.50	22660.00	12445.00				MinPt-CtCt	
	3790.98	345.18	3556.85	3445.80	17.00	OSF1.50	22700.00	12445.00				MinPt-EOU	
	3791.25	345.51	3556.99	3445.74	16.99	OSF1.50	22720.00	12445.00				MinPt-ADP	
	3797.35	347.91	3561.41	3449.44	16.90	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-08135 - TRISTE-STATE 1 - INC Only to 5192ft - P&A (DefinitiveSurvey)													Pass
	4268.50	32.81	4258.40	4227.69	36957.95	MAS = 10.00 (m)	0.00	0.00				Surface	
	4260.50	32.81	4258.00	4227.69	8240.62	MAS = 10.00 (m)	23.00	23.00				WRP	
	4260.50	108.15	4187.81	4152.35	60.05	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	4359.29	418.78	4079.59	3940.56	15.67	OSF1.50	5300.00	5171.73				MinPts	
	4359.91	419.24	4079.86	3940.67	15.65	OSF1.50	5310.00	5181.29				MinPt-SF	
	7269.34	149.47	7169.20	7119.88	73.68	OSF1.50	17380.00	12445.00				MinPt-CtCt	
	7270.21	151.81	7168.50	7118.40	72.54	OSF1.50	17490.00	12445.00				MinPt-EOU	
	7271.39	153.21	7168.76	7118.18	71.88	OSF1.50	17550.00	12445.00				MinPt-ADP	
	9118.72	345.70	8887.75	8773.02	39.73	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-47635 - WILD SALSA FED.COM 094H - MWD to 20459ft - A (DefinitiveSurvey)													Pass
	8786.10	32.81	8786.05	8755.29	130326.59	MAS = 10.00 (m)	0.00	0.00				MinPts	
	8788.12	32.81	8786.05	8755.31	95510.52	MAS = 10.00 (m)	10.00	10.00				MinPt-EOU	
	8788.16	32.81	8786.05	8755.35	70661.52	MAS = 10.00 (m)	23.00	23.00				WRP	
	8788.74	32.81	8786.07	8755.93	12708.25	MAS = 10.00 (m)	140.00	140.00				MinPt-EOU	
	8792.23	32.81	8786.82	8759.42	2565.17	MAS = 10.00 (m)	440.00	440.00				MinPt-EOU	
	8796.72	32.81	8784.66	8763.91	872.85	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	8798.44	32.81	8783.24	8765.64	654.49	MAS = 10.00 (m)	1440.00	1440.00				MinPt-EOU	
	9931.36	120.40	9850.56	9810.95	125.39	OSF1.50	7200.00	6988.67				MinPt-ADP	
	10563.23	165.34	10452.47	10397.89	96.76	OSF1.50	10360.00	10026.00				MinPt-SF	
	4370.78	273.16	4188.18	4097.63	24.13	OSF1.50	22882.83	12445.00				MinPts	
Estacado Fields #002 (Offset) Plugged SWD Blind Off-5206ft (DefinitiveSurvey)													Pass
	5457.40	32.81	5454.75	5424.59	8136.37	MAS = 10.00 (m)	0.00	0.00				Surface	
	5457.40	32.81	5452.34	5424.59	1771.18	MAS = 10.00 (m)	23.00	23.00				WRP	
	5457.40	540.93	5096.20	4916.47	15.18	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	5638.76	1606.37	4567.31	4032.39	5.27	OSF1.50	5320.00	5190.86				MinPts	
	7380.59	326.13	7161.48	7054.46	34.46	OSF1.50	17360.00	12445.00				MinPt-ADP	
	7288.12	214.06	7143.71	7074.06	52.29	OSF1.50	18040.00	12445.00				MinPt-EOU	
	7258.41	170.64	7142.93	7087.76	65.74	OSF1.50	18700.00	12445.00				MinPt-CtCt	
	7303.75	261.19	7127.92	7042.56	42.75	OSF1.50	19510.00	12445.00				MinPt-EOU	
	7388.91	363.46	7144.92	7025.45	30.90	OSF1.50	20080.00	12445.00				MinPt-ADP	
	8378.68	841.62	7816.04	7537.05	15.01	OSF1.50	22882.83	12445.00				MinPt-SF	
H L Johnston L SR Pre-Ongard Well #001 (Offset) Plugged Oil Blind Off-5151ft (DefinitiveSurvey)													Pass
	8369.68	32.81	8364.98	8336.87	3083.82	MAS = 10.00 (m)	0.00	0.00				Surface	
	8369.68	32.81	8362.57	8336.87	1633.35	MAS = 10.00 (m)	23.00	23.00				WRP	
	8369.68	547.06	8004.39	7822.62	23.02	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	8821.85	1586.61	7763.57	7235.24	8.35	OSF1.50	5230.00	5104.79				MinPt-EOU	
	8823.46	1588.92	7763.65	7234.54	8.34	OSF1.50	5240.00	5114.35				MinPts	
	10336.91	1127.49	9583.91	9209.42	13.80	OSF1.50	14990.00	12445.00				MinPt-SF	
	7897.36	480.91	7275.11	7116.45	23.93	OSF1.50	21999.38	12445.00				MinPt-CtCt	
	7598.16	482.78	7274.66	7115.38	23.84	OSF1.50	22110.00	12445.00				MinPt-EOU	
	7601.49	486.62	7275.43	7114.87	23.66	OSF1.50	22250.00	12445.00				MinPt-ADP	
	7648.55	522.69	7298.46	7125.87	22.14	OSF1.50	22882.83	12445.00				MinPt-SF	

Form 3160-3  
(June 2015)

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

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 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No.  6. If Indian, Allottee or Tribe Name  7. If Unit or CA Agreement, Name and No.  8. Lease Name and Well No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish      13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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



(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 / 1207 FSL / 2365 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.257261 / LONG: -103.629218 ( TVD: 0 feet, MD: 0 feet )  
PPP: SWSW / 100 FSL / 330 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.254195 / LONG: -103.635798 ( TVD: 11852 feet, MD: 12186 feet )  
PPP: SENW / 2644 FNL / 330 FWL / TWSP: 23S / RANGE: 32E / SECTION: 25 / LAT: 32.275699 / LONG: -103.635813 ( TVD: 12445 feet, MD: 20339 feet )  
PPP: NWNW / 0 FNL / 330 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.268436 / LONG: -103.635808 ( TVD: 12455 feet, MD: 17696 feet )  
BHL: NWNW / 100 FNL / 330 FWL / TWSP: 23S / RANGE: 32E / SECTION: 25 / LAT: 32.282691 / LONG: -103.635818 ( TVD: 12150 feet, MD: 22488 feet )

### BLM Point of Contact

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

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**Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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## TRISTE DRAW 36-25 FEDERAL COM 401H

### **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.

Please be aware:

- Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.
- H<sub>2</sub>S 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 Chris Armistead, BLM Geologist at 575-234-5715 or [carmistead@blm.gov](mailto:carmistead@blm.gov)

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Cimarex Energy Company
<b>LEASE NO.:</b>	NMNM86154
<b>LOCATION:</b>	Section 36, T.23 S., R.32 E., NMPM
<b>COUNTY:</b>	Lea County, New Mexico <span style="float: right;">▼</span>

<b>WELL NAME &amp; NO.:</b>	Triste Draw 36-25 Federal Com 401H
<b>SURFACE HOLE FOOTAGE:</b>	1207'/S & 2365'/W
<b>BOTTOM HOLE FOOTAGE:</b>	100'/N & 330'/W
<b>ATS/API ID:</b>	ATS-24-427
<b>APD ID:</b>	10400095895
<b>Sundry ID:</b>	N/a

COA

H2S	Yes <span style="float: right;">▼</span>		
Potash	Ochoa <span style="float: right;">▼</span>		
Cave/Karst Potential	Low <span style="float: right;">▼</span>		
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 <span style="float: right;">▼</span>		
Other	<input type="checkbox"/> 4 String	Capitan Reef None <span style="float: right;">▼</span>	<input type="checkbox"/> WIPP
Other	Pilot Hole None <span style="float: right;">▼</span>	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze None <span style="float: right;">▼</span>	Echo-Meter None <span style="float: right;">▼</span>	Primary Cement Squeeze None <span style="float: right;">▼</span>
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input type="checkbox"/> Break 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 **1288 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 **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
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 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 **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi**.

#### Option 2:

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

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

### 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 btc **from** base of curve and a minimum of 500 feet or the minimum tie-back requirement above, whichever is greater into the previous casing shoe.

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

## GENERAL REQUIREMENTS

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

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

Lea County

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 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.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report when present.

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, 2) until cement has been in place at least 24 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 water basin (8 hours) or potash (24 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) 5/21/2024

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

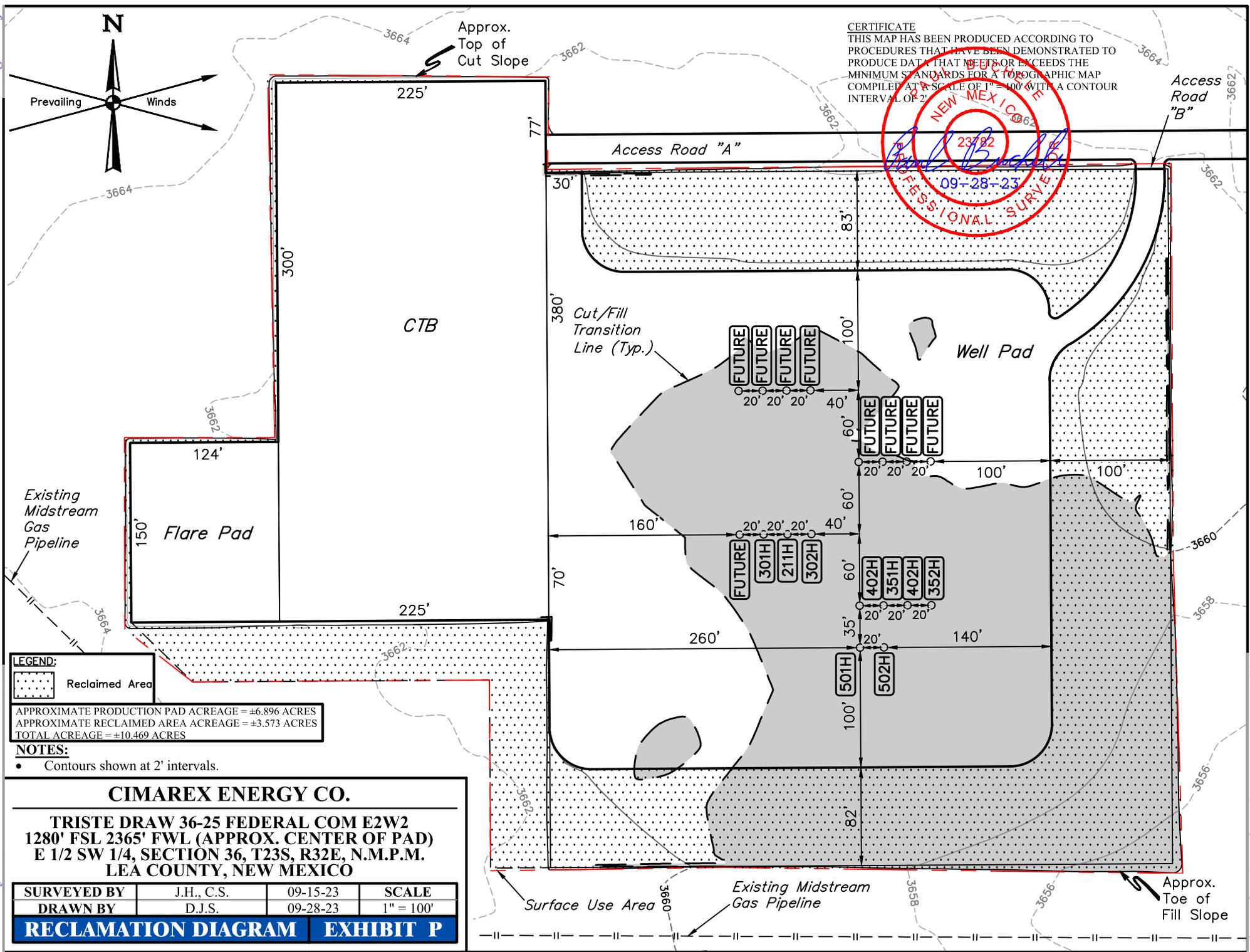
Charlie Pritchard: Drilling Operations Manager: 432 – 238 – 7084

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	





District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

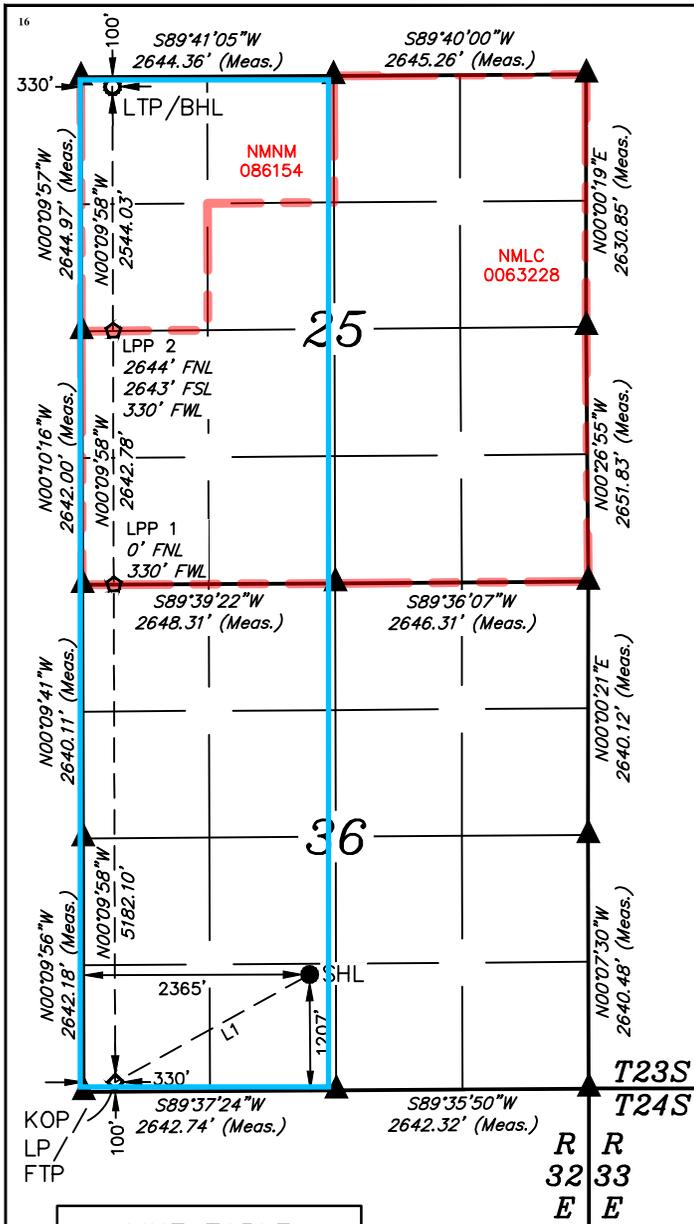
WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	98177	<sup>2</sup> Pool Code	WC-025 G-09 S223332A; UPR Wolfcamp	<sup>3</sup> Pool Name
<sup>4</sup> Property Code	TRISTE DRAW 36-25 FEDERAL COM			<sup>6</sup> Well Number 401H
<sup>7</sup> OGRID No. 215099	<sup>8</sup> Operator Name CIMAREX ENERGY CO.			<sup>9</sup> Elevation 3657.4'

<sup>10</sup> Surface Location									
UL or lot no. N	Section 36	Township 23S	Range 32E	Lot Idn	Feet from the 1207	North/South line SOUTH	Feet from the 2365	East/West line WEST	County LEA

<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. D	Section 25	Township 23S	Range 32E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 330	East/West line WEST	County LEA
<sup>12</sup> Dedicated Acres 640	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

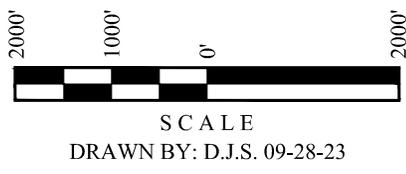
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



<b>NAD 83 (SURFACE HOLE LOCATION)</b> LATITUDE = 32°15'26.14" (32.257261°) LONGITUDE = -103°37'45.19" (-103.629218°)
<b>NAD 27 (SURFACE HOLE LOCATION)</b> LATITUDE = 32°15'25.70" (32.257138°) LONGITUDE = -103°37'43.45" (-103.628737°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 458038.63' E: 758995.50'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 457979.49' E: 717811.78'
<b>NAD 83 (KOP/LP/FTP)</b> LATITUDE = 32°15'15.10" (32.254195°) LONGITUDE = -103°38'08.87" (-103.635798°)
<b>NAD 27 (KOP/LP/FTP)</b> LATITUDE = 32°15'14.66" (32.254071°) LONGITUDE = -103°38'07.14" (-103.635317°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 456909.76' E: 756968.76'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 456850.65' E: 715785.01'
<b>NAD 83 (LPP 1)</b> LATITUDE = 32°16'06.37" (32.268436°) LONGITUDE = -103°38'08.91" (-103.635808°)
<b>NAD 27 (LPP 1)</b> LATITUDE = 32°16'05.93" (32.268313°) LONGITUDE = -103°38'07.17" (-103.635326°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 462090.82' E: 756932.03'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 462031.56' E: 715748.41'
<b>NAD 83 (LPP 2)</b> LATITUDE = 32°16'32.52" (32.275699°) LONGITUDE = -103°38'08.93" (-103.635813°)
<b>NAD 27 (LPP 2)</b> LATITUDE = 32°16'32.07" (32.275576°) LONGITUDE = -103°38'07.19" (-103.635331°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 464733.06' E: 756913.30'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 464673.73' E: 715729.75'
<b>NAD 83 (LTP/BHL)</b> LATITUDE = 32°16'57.69" (32.282691°) LONGITUDE = -103°38'08.94" (-103.635818°)
<b>NAD 27 (LTP/BHL)</b> LATITUDE = 32°16'57.24" (32.282568°) LONGITUDE = -103°38'07.21" (-103.635335°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 467276.58' E: 756895.26'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 467217.17' E: 715711.77'

**<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* 10/23/23  
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:



**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



# Drilling Plan Data Report

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

06/14/2024

APD ID: 10400095895

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: 401H

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
13602757	RUSTLER	0	1238	1238	ANHYDRITE	USEABLE WATER	N
13602758	TOP SALT	-1731	1731	1731	HALITE	NONE	N
13602755	LAMAR	-5036	5036	5036	SANDSTONE	NONE	N
13602759	BASE OF SALT	-5036	5036	5158	LIMESTONE	NONE	N
13602761	CHERRY CANYON	-5087	5087	6103	SANDSTONE	NATURAL GAS	Y
13602760	BELL CANYON	-5087	5087	5211	SANDSTONE	NATURAL GAS, OIL	Y
13602762	BRUSHY CANYON	-7318	7318	7544	SANDSTONE	NATURAL GAS, OIL	Y
13602763	BONE SPRING LIME	-8850	8850	9146	LIMESTONE	NONE	N
13602764	AVALON SAND	-9033	9033	9337	SHALE	NATURAL GAS, OIL	Y
13602765	BONE SPRING 1ST	-10050	10050	10384	SANDSTONE	NATURAL GAS, OIL	Y
13602766	BONE SPRING 2ND	-10592	10592	10926	SANDSTONE	NATURAL GAS, OIL	Y
13602767	BONE SPRING 3RD	-11115	11115	11449	OTHER : Carbonate	NATURAL GAS, OIL	Y
13602768	BONE SPRING 3RD	-11942	11942	12276	SANDSTONE	NATURAL GAS, OIL	Y
13602756	WOLFCAMP	-12270	12270	12654	SANDSTONE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

**Operator Name:** CIMAREX ENERGY COMPANY

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

**Well Number:** 401H

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

**Rating Depth:** 12445

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

**Requesting Variance?** YES

**Variance request:** See attached.

**Testing Procedure:** A multi-bowl wellhead will be utilized and will be tested per 43 CFR 3172 after the installation on the surface casing. The testing interval shall be for 30 days. Whenever any seal subject to pressure is broken, a full BOPE test shall be performed.

**Choke Diagram Attachment:**

CHOKE\_MANIFOLD\_DIAGRAM\_401H\_20240424130606.pdf

NEW\_MEXICO\_STANDARD\_VARIANCES\_Triste\_401H\_402H\_20240424130607.pdf

COTERRA\_10M\_MBU\_3T\_CFL\_10.34\_X\_7.58\_X\_5.5\_401H\_20240424130607.pdf

CIMAREX\_10K\_PROD\_TREE\_401H\_20240424130607.pdf

CHOKE\_HOSE\_M14856\_401H\_20240424130613.pdf

**BOP Diagram Attachment:**

BOP\_DIAGRAM\_401H\_20240424130620.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	1320	0	1320	3658	2338	1320	H-40	48	ST&C	2.83	5.61	DRY	12.06	DRY	12.06
2	PRODUCTI ON	6.75	5.5	NEW	API	Y	0	12136	0	12136	3658	-8478	12136	L-80	29	LT&C	1.47	1.3	DRY	2.18	DRY	2.18
3	INTERMED IATE	9.625	7.875	NEW	API	N	0	12936	0	12405	3658	-8747	12936	L-80	40	LT&C	2.47	1.19	DRY	1.54	DRY	1.54
4	PRODUCTI ON	6.75	5.0	NEW	API	Y	12136	22883	12136	12445	-8478	-8787	10747	P-110	18	BUTT	1.73	1.75	DRY	99.99	DRY	99.99

**Casing Attachments**

**Operator Name:** CIMAREX ENERGY COMPANY

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

**Well Number:** 401H

**Casing Attachments**

---

**Casing ID:** 1                    **String**            SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Casing\_Assumptions\_401H\_20240514104325.pdf

---

**Casing ID:** 2                    **String**            PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Spec\_Sheet\_for\_Tapered\_Prod\_5.5\_23\_\_P110RY\_20240424134748.pdf

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

---

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

---

**Operator Name:** CIMAREX ENERGY COMPANY

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

**Well Number:** 401H

**Casing Attachments**

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Spec\_Sheet\_for\_Tapered\_Prod\_5\_18\_\_P110RY\_03262024\_20240424134719.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	Tuned Light0	LCM0
PRODUCTION	Tail		1273 6	2288 3	1386	1.3	14.2	1801	25	50:50	(Poz H) + Salt + Bentonite + Fluid Loss+ Dispersant + SMS
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0

SURFACE	Lead		0	1020	513	1.72	13.5	873	45	Class C	Bentonite
SURFACE	Tail		1020	1320	137	1.34	14.8	183	45	Class C	LCM
INTERMEDIATE	Lead		0	1193 6	1025	3.64	10.3	3733	49	36:65 (Poz c)	Salt, Bentonite
INTERMEDIATE	Tail		1193 6	1293 6	198	1.36	14.8	269	51	Class C	LCM

**Operator Name:** CIMAREX ENERGY COMPANY

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

**Well Number:** 401H

### 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 Onshore Order #2:**

**Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

**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	1293 6	OTHER : Brine water	9.5	10							
1293 6	2288 3	OIL-BASED MUD	11.5	12							

### Section 6 - Test, Logging, Coring

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

NO DST

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

DIRECTIONAL SURVEY,COMPENSATED NEUTRON LOG,GAMMA RAY LOG,

**Coring operation description for the well:**

N/A

**Operator Name:** CIMAREX ENERGY COMPANY

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

**Well Number:** 401H

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 7765

**Anticipated Surface Pressure:** 5024

**Anticipated Bottom Hole Temperature(F):** 192

**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\_20240424135204.pdf

### Section 8 - Other Information

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

401H\_Directional\_Plan\_20231117072357.pdf

401H\_Well\_Plan\_20231117072357.pdf

401H\_AC\_Summary\_20231117072357.pdf

GEOPROG\_Triste\_Draw\_36\_25\_Fed\_Com\_401H\_WFMP\_Z\_JAB\_20231120132046.pdf

WELL\_CONTROL\_PLAN\_REV.0\_20240424135228.pdf

401H\_Drilling\_Plan\_updated\_04242024\_20240514104804.pdf

\_5\_14\_2024\_11\_48\_20\_AM\_Proposal\_100\_Coterra\_Triste\_Draw\_36\_25\_Federal\_Com\_401H\_Rev0\_mdv\_19Oct23\_20240514104916.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

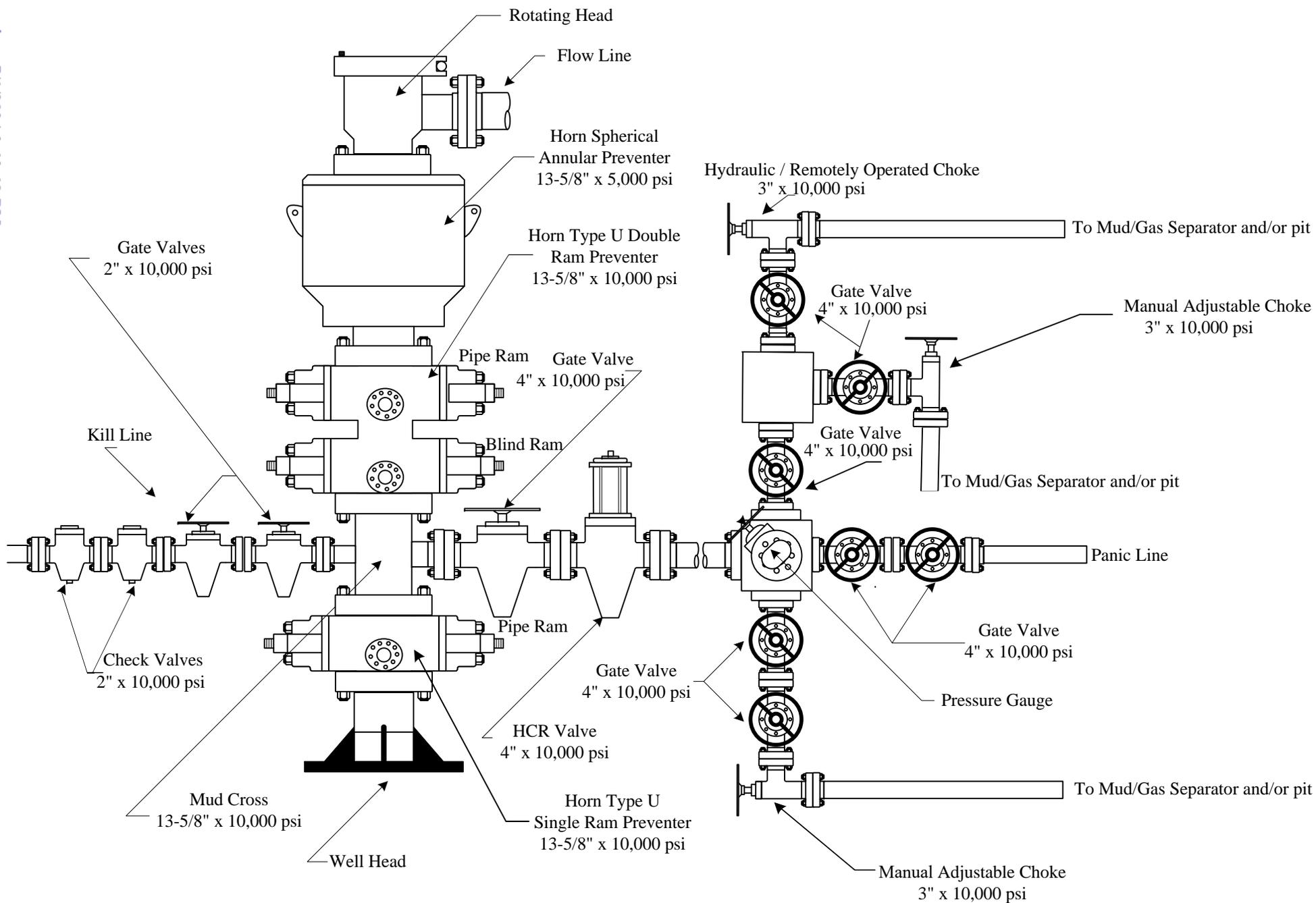
Triste\_Draw\_36\_25\_Federal\_Com\_401H\_Natural\_Gas\_Plan\_Cimarex\_20231117072407.pdf

**Other Variance attachment:**

NEW\_MEXICO\_STANDARD\_VARIANCES\_Triste\_401H\_402H\_20240424135306.pdf

CHOKE\_HOSE\_M14856\_401H\_20240424135318.pdf

CONFIDENTIAL



# 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

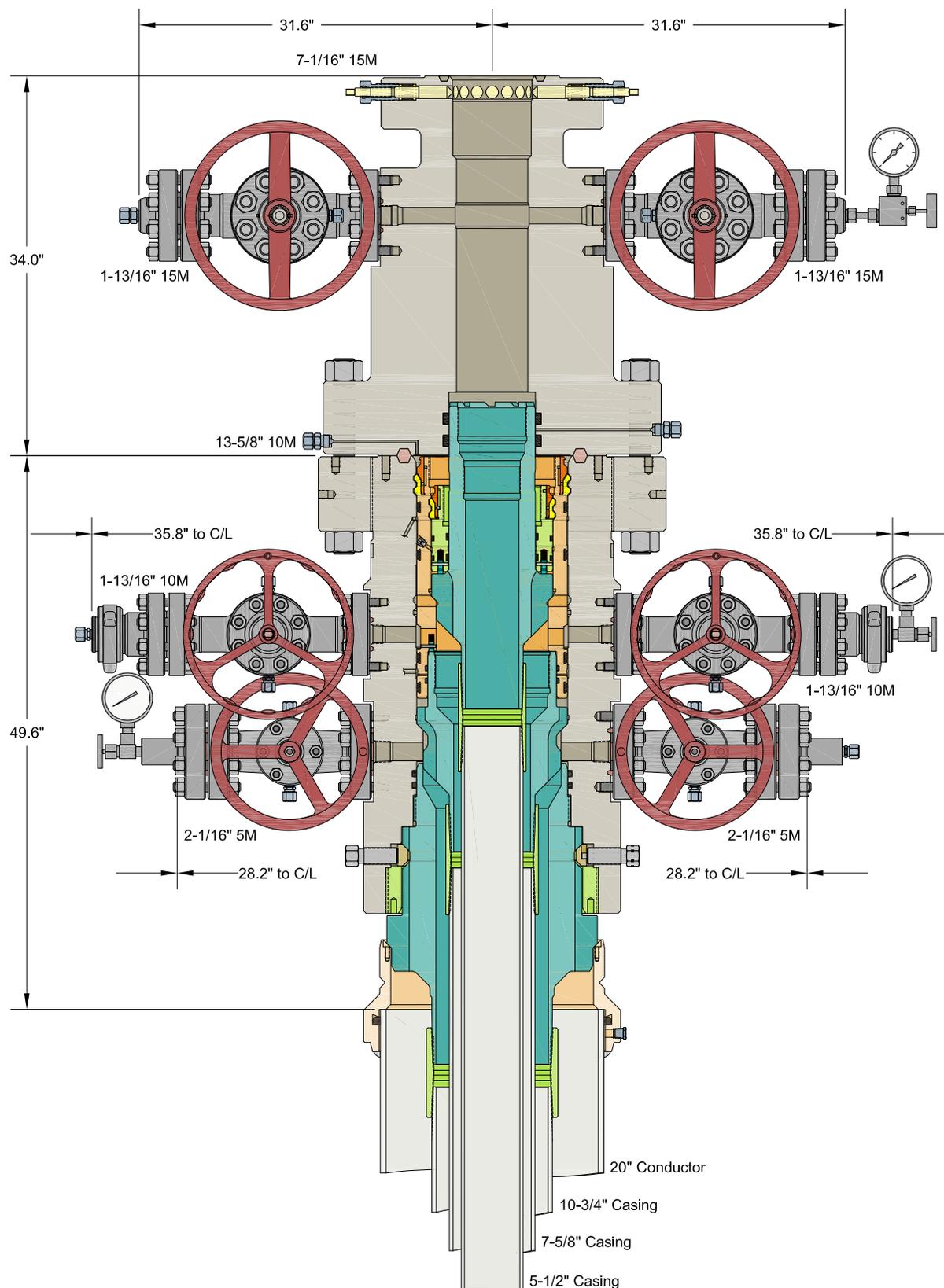
Coterra requests approval to omit the DV tool from the intermediate casing string. In lieu of a DV tool, Coterra will retain the option to pump down the intermediate annulus through casing valves with the appropriate cement slurry in the event returns to surface are not achieved on the primary job.

## 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.



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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
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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.



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		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



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		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



**Cactus**

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Page 4 of 8

	Quantity	Price	Ext Price
THD,10.00 MIN BORE			
PN 118178: TORQUE COLLAR,CW,CSGHGR,MBU-3T-CFL-R,F/16 NECK,4140 110K			
PN 104467: COMB TEST PLUG/RET TOOL,CW,13-5/8 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS & SPRING LOADED DOGS			
PN 122539: WBUSH,CW,MBU-3T,LWR,13-5/8 X 10. 00 ID X 27.0 LG,W/3/8 UPR ORING & W/O 2.38 GROOVE			
PN 121602: RUN TOOL,CW,CSGHGR,TP4,13-5/8 X 7-5/8 BC BOX TOP,10.250-4 STUB ACME-2G RIGHT HAND PIN BTM,MAX LOAD CAPACITY 1000K,MAX TORQUE 18000FT-LBS,SPEC FOR ROTATING CASING STRING			
PN 118906: TORQUE COLLAR,CW,F/USE W RUN TOOL,TP,10.250-4 STUB ACME-2G RIGHT HAND PIN BTM AND A/F 11.50 OD X 5.00 LG BOX HGR NECK,MAXIMUM TORQUE 48000 LBF-FT			
PN 106277: WASH TOOL,CW,MBU-3T-LR,MBS2 & FLUTED,13-5/8 X 4-1/2 IF (NC50) BOX TOP THD,W/BRUSHES			
PN 119451: RUN TOOL,CW,PACKOFF,MBU-3T-UPR,13-5/8 STACK,W/11.250-4 STUB ACME-2G LEFT HAND PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/3/8 BALL BEARINGS			
PN 125190: TEST PLUG,CW,MBU-3T INNER,11 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS			
PN 123959: WBUSH,CW,MBU-3T(-ONE),UPR,NESTED,13-5/8 X 11 X 7.00 ID X 20.0 LG,A/F 13-5/8 RET TOOL,W/1/4 DRILL HOLES			
PN 117319: TORQUE COLLAR,CW,CSGHGR,F/USE W/7.62 OD X 15.38 LG BOX HGR NECK AND 10.83 OD RUNNING TOOL,MAXIMUM TORQUE 35000 LBF-FT			
PN 103164: WASH TOOL,CW,CSGHGR,MBU-2LR/MBS2-R (3T),FLUTED,11 X 4-1/2 IF (NC50) BOX TOP THDS,FAB,200 PSI MAX WP			
PN 117306: RUN TOOL,CW,PACKOFF,MBU-3T-SN,7-5/8,W/8.750-4 STUB ACME-2G LEFT HAND PIN BTM X 4-1/2 IF (NC50) BOX TOP,W/BALL BEARINGS			
PN 116240: SUB,CROSSOVER,CW,5 HBPV PIN THD BTM X 4-1/2 IF (NC50) BOX TOP,18.0 LG,4140 110K			
NOTE: CUSTOMER RESPONSIBLE FOR LOST OR DAMAGED BEYOND REPAIR TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.			0.00

**SAFEDRILL® DRILLING ADAPTER**

27	8Q	13 10M X 13 10M CQC ADPT (45D)	0.00	1,700.00	0.00
SAFEDRILL® DRILLING ADAPTER RENTAL PACKAGE = \$1,700.00 PER WELL FOR THE FIRST 45 DAYS; \$65.00 PER DAY THEREAFTER.					

RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:

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

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

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



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 Valid For 30 Days

			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

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 7 of 8

### 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.

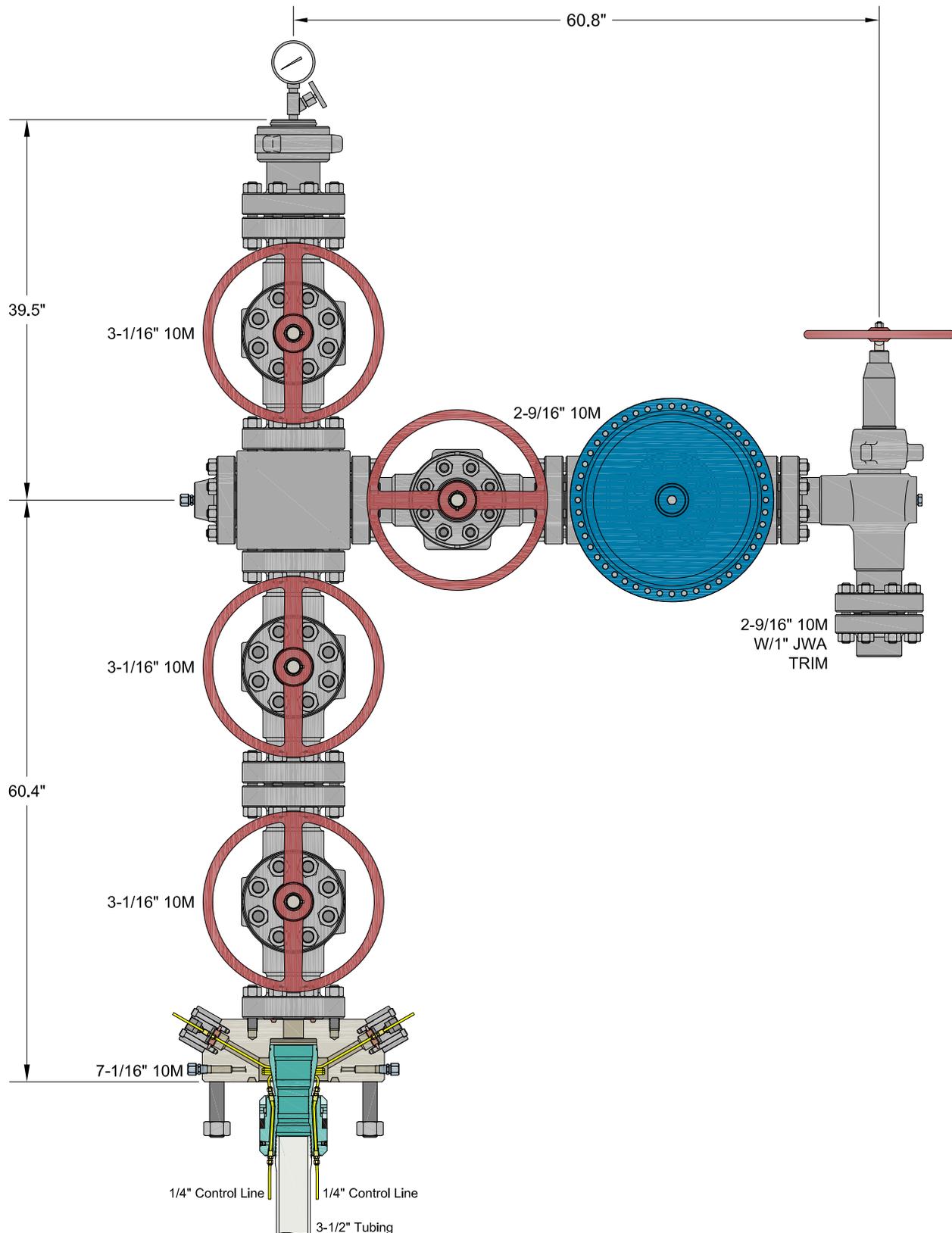
20. **CHOICE OF LAW.** THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF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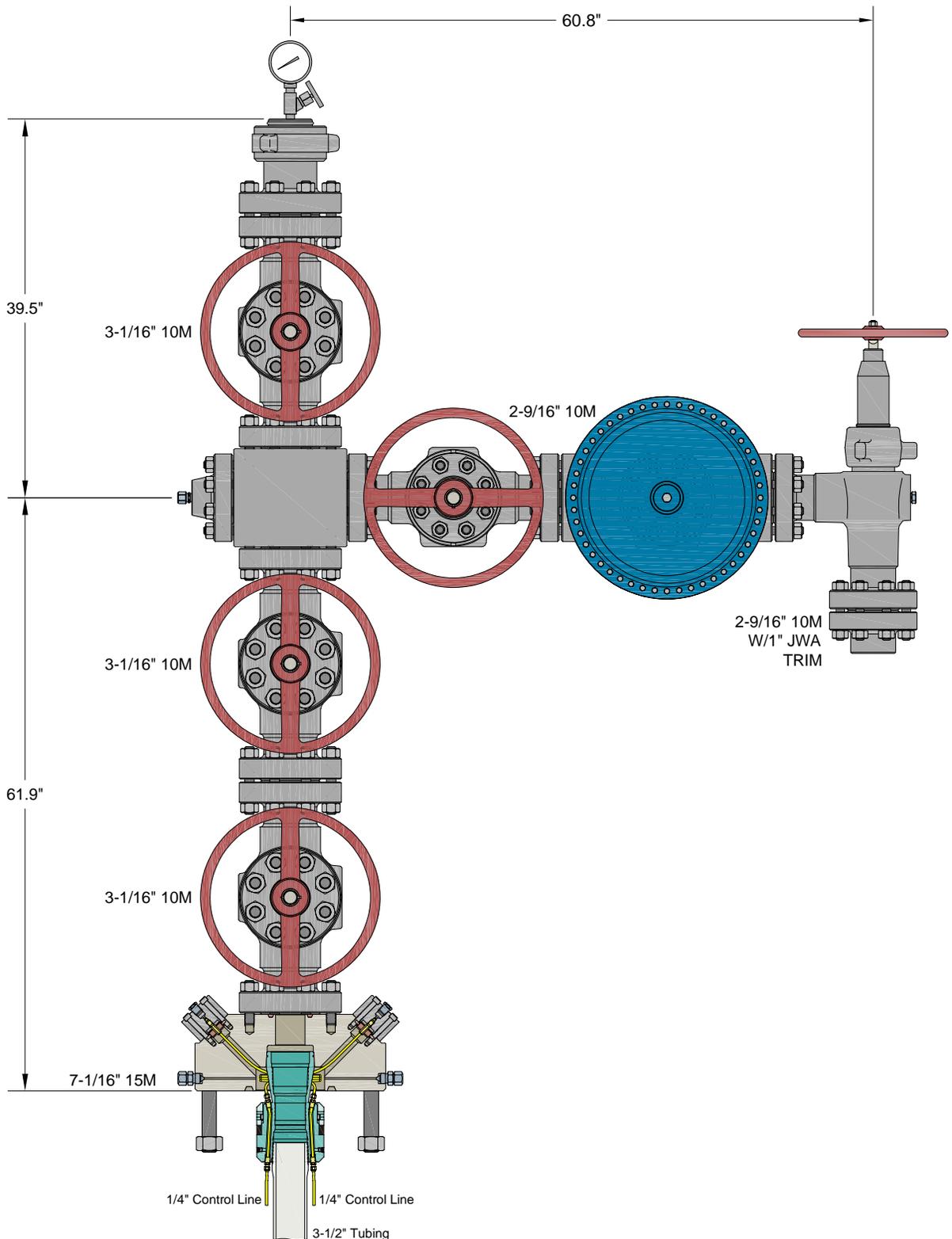
ALL DIMENSIONS APPROXIMATE

# 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**

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

Quote Number : HBE0001018

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

Date: 09/08/2023

Valid For 30 Days

Page 2 of 5

		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**

**Quote Number : HBE0001018**

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>

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

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

<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  
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Page 4 of 5

### 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.



Gates Engineering & Services UK Ltd		<b>PRESSURE TEST CERTIFICATE</b>	
Doc. Ref.	Form-051		
Revision	9		

<input type="checkbox"/> BURST	<input checked="" type="checkbox"/> HYDROSTATIC	<input type="checkbox"/> CYCLIC	<b>Certificate No:</b> 31675-002
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<b>Product:</b>	3" Choke & Kill Hose	<b>Hose WO/Batch:</b>	120839
<b>Assembly WO:</b>	120840	<b>Length:</b>	35Ft
<b>SO No:</b>	31675	<b>Date:</b>	11/02/20
<b>Client:</b>	Gates Engineering & Services North America	<b>Client Reference:</b>	1714987/ 0

<b>Inner Diameter:</b>	3	<b>Inch</b>		
<b>Working Pressure:</b>	10000	<b>Psi</b>	690	<b>bar</b>
<b>Test Pressure:</b>	15000	<b>Psi</b>	1034	<b>bar</b>
<b>Burst Pressure:</b>	22500	<b>Psi</b>	1551	<b>bar</b>

<b>Hose Description:</b>		3" Choke & Kill Hose x 35ft complete with 4.1/16" API 6A 10K Fixed Flange with BX155 Inlaid Ring Groove on one end & 4.1/16" API 6A 10K Swivel Flange with BX155 Inlaid Ring Groove On the other end		
<b>Item No</b>	<b>Qty</b>	<b>Part Code</b>	<b>Customer Tag No (if applicable)</b>	
2	1	HA31623-001	N/A	

<b>Details of Test:</b>	Pressure tested with water at ambient temperature for 60 minutes at test pressure 1034 BAR,  Chart recording done with Yokagawa Data Logger S/N: S5NC08915 Transducer ESI GS4200EX3000DE ID:TD/DC-002, S/N: 2018-741502 Calibration Certificate No: IKMCERTL9111
<b>Results:</b>	Pressure Loss: 11.4 Bar  Acceptance Criteria: Pressure loss not to exceed - 34.47 Bar or 500 PSI

<b>GESUK Ltd</b>	<b>Third Party</b>
 17/02/20	

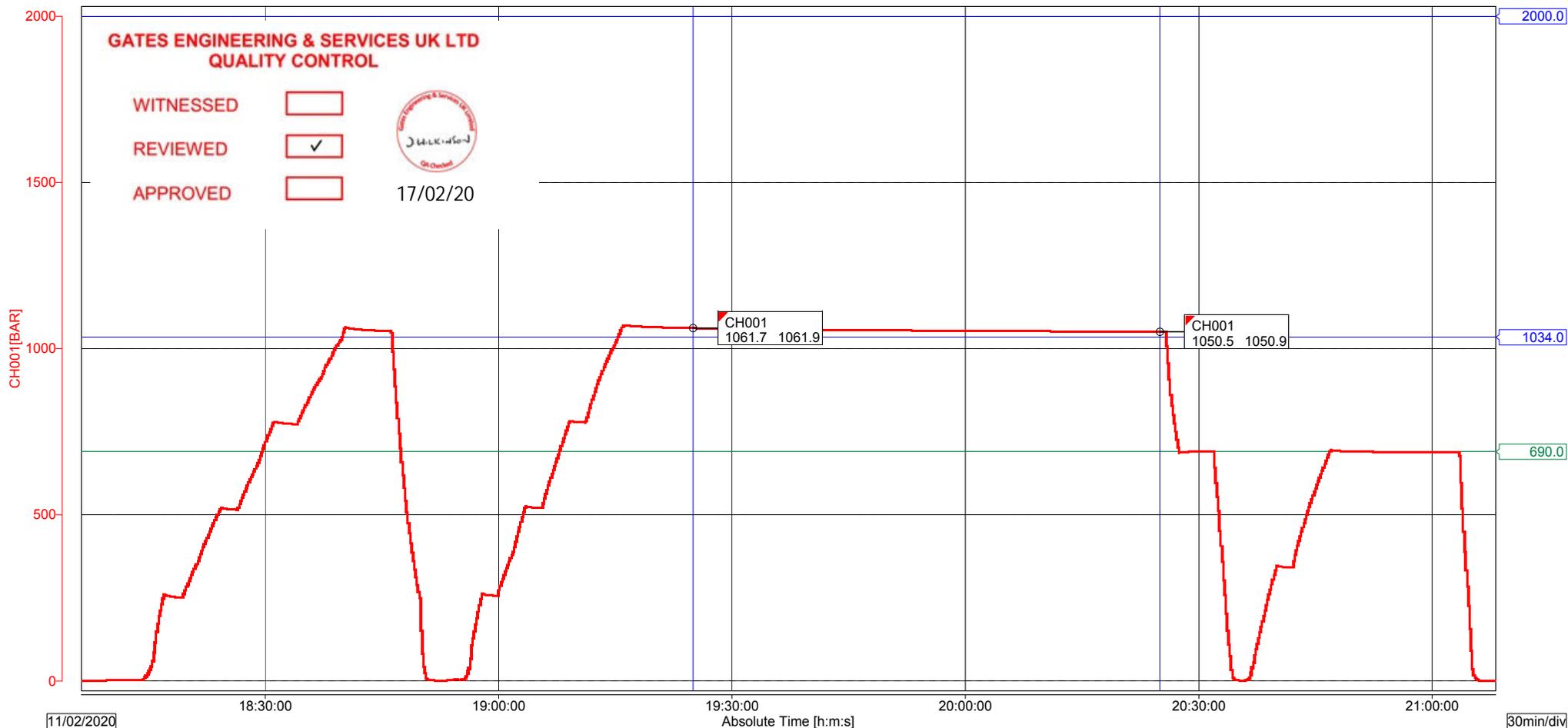
File Message : 120840 FAT  
 Device Type : DX2000  
 Serial No. : S5NC08915

Start Time : 11/02/2020 18:06:20.000  
 Stop Time : 11/02/2020 21:08:10.000

Print Groups : GROUP 1  
 Print Range : 11/02/2020 18:06:20.000 - 11/02/2020 21:08:10.000  
 Comment : Factory Acceptance Test

		Cursor A	Cursor B	Difference
Data No.		472	832	360
Absolute Time		11/02/2020 19:25:00.000	11/02/2020 20:25:00.000	01:00:00.000
Channel		Value A	Value B	Value B-A
CH001 [BAR]	Max	1061.9	1050.9	-11.0
	Min	1061.7	1050.5	-11.2

Section		472	832	11/02/2020 19:25:00.000 - 11/02/2020 20:25:00.000	
Channel	MIN	MAX	P-P	Mean	RMS
CH001[BAR]	1050.5	1061.9	11.4	1055.0	1055.1





REPORT OF THOROUGH EXAMINATION OF LIFTING EQUIPMENT  
IN ACCORDANCE WITH LIFTING OPERATIONS AND LIFTING EQUIPMENT REGULATIONS 1998  
**ALL ITEMS ON THIS REPORT ARE SAFE TO USE**

NAME & ADDRESS OF COMPANY FOR WHOM THE EXAMINATION WAS MADE	ADDRESS OF THE PREMISES WHERE THE EXAMINATION WAS MADE	DATE OF REPORT
Gates Engineering & Services UK Ltd Bassington Drive Bassington Industrial Estate Cramlington	Tusk Lifting Ltd 49D Sadler Forster Way Teesside Industrial Estate Stockton-On-Tees TS17 9JY	08/01/2020
NE23 8AS	REPORT NO 13322	
	CUSTOMER REFERENCE 052628	
	CONTRACT NO. 0000059501	

QTY	ID NO.	DESCRIPTION OF EQUIPMENT INCLUDING MANUFACTURER AND DATE OF MANUFACTURE	SWL / WLL	EWL	EXAM REASON (SEE BELOW)	TEST APPLIED	LATEST DATE OF NEXT THOROUGH EXAMINATION
50.00	643615/1 - 643615/50	10mm x 6ft HCP Coated Chain Sling c/w 4.75t Safety Pin Bow Shackle each end	4 TONNE	6 FT	B	VISUAL	08/07/2020

REASON FOR EXAMINATION: **A** - NEW INSTALLATION OR NEW LOCATION; **B** - WITHIN 6 MONTHS; **C** - WITHIN 12 MONTHS; **D** - WRITTEN SCHEME; **E** - EXCEPTIONAL CIRCUMSTANCES.

<b>NAME AND QUALIFICATION OF PERSON MAKING THE REPORT</b>	<b>NAME OF THE PERSON AUTHENTICATING THE REPORT</b>
Jimmy Joyce, Company Approved Examiner	Julie Montgomery, Planner
<b>SIGNATURE</b>	<b>SIGNATURE</b>
	<b>DATE OF THOROUGH EXAMINATION</b> 08/01/2020

OPERATING INSTRUCTIONS CAN BE FOUND ON OUR WEBSITE. HTTP://WWW.TUSKLIFTING.CO.UK  
THE ORIGINAL MANUFACTURERS EC DECLARATION OF CONFORMITY IS HELD ON FILE AT OUR PREMISES AND IS AVAILABLE UPON REQUEST

**Tusk Lifting Ltd.**  
49D Sadler Forster Way, Teesside Industrial Estate,  
Stockton On Tees, TS17 9JY

T. 01642 915330  
E. teesside@tusklifting.co.uk  
W. tusklifting.co.uk

VAT. GB258876247  
REG. 10497383





**William Hackett**  
Lifting Products Limited



<b>Delivery Address</b>		<b>Supplied To:</b> TUS002	
TUSK LIFTING LTD (STOCK)		<b>Certificate Number:</b> L072222	
49D SADLER FORSTER WAY		<b>Customer Order No:</b> 7557	
TEESIDE INDUSTRIAL ESTATE		<b>Date Received:</b> 17/12/2019	
STOCKTON ON TEES		PRODUCTS REQUIRING A DECLARATION OF CONFORMITY	
TS17 9JY		ARE INDICATED BY (A)	
		THOSE REQUIRING JUST A MANUFACTURER'S	
		CERTIFICATE BY (B)	

<b>DUAL PURPOSE DOCUMENT</b>			
<b>EC DECLARATION OF CONFORMITY</b>		<b>DECLARATION</b>	
<b>A</b>		I DECLARE THAT THE ITEMS DESCRIBED ON THIS DOCUMENT COMPLY WITH THE REQUIREMENTS OF THE MACHINERY DIRECTIVE 2006/42/EC	
<b>MANUFACTURER'S CERTIFICATE</b>		<b>B</b>	
CERTIFIED ON BEHALF OF THE COMPANY		 T.J. BURGESS 17/12/2019	

Authorised person for the configuration of the declaration documents: **Tim Burgess, William Hackett Lifting Products, Alnwick, UK**

A/B	Batch	Lot No / Serial No	Product	Description	Qty	Working Load Limit	Proof Load	Min Breaking Load
A	P02637	643615/1-50	HNZZZ.100.TUSK	10mm grade 10 chain sling assembly. Comprising of: 1 x 4.75t Safety Bow Shackle, 1 x 10mm connector, 10mm grade 10 chain, 1 x 10mm connector and 1 x 4.75t Safety Bow Shackle.	50	4t		

OAK DRIVE, LIONHEART ENTERPRISE PARK, ALNWKICK, NORTHUMBERLAND NE66 2EU  
 Tel. + 44 (0) 1665 604200 Fax. + 44 (0) 1665 604204 Email: info@williamhackett.co.uk  
 Website: www.williamhackett.co.uk Co. Registration No. 09679580 VAT Reg. No. 217 3508 23



**William Hackett**  
Lifting Products Limited



IMB52628

**3.1 Material Certificate**

<b>DATE: 18.12.2019</b>	<b>PURCHASE ORDER NO. 7557</b>
-------------------------	--------------------------------

<b>CUSTOMER</b>	TUSK LIFTING LIMITED
<b>ADDRESS</b>	49D SADLER FORSTER WAY TEESIDE IND EST STOCKTON ON TEES TS17 9JY

<b>PRODUCT CODE: ASV.100.5</b>	<b>Marking: 1235</b>
<b>DESCRIPTION: 10MM GRADE 10 LIFTING CHAIN – Q61076</b>	

**Chemical Composition –**

	%
C	0,215
Si	0,216
Mn	1,222
P	0,0076
S	0,0071
Ni	0,947
Cr	0,554
Cu	-
Mo	0,595
AL	0,0337



Safety is our first priority

061259

YOKE INDUSTRIAL CORP.

#39,33<sup>rd</sup> Road, Taichung Industrial Park,

TAICHUNG 407, TAIWAN

TEL:+886-4-2350 8088

FAX:+886-4-2350 1001

IMB52628

Test Certificate

80059145-000730

TO: WILLIAM HACKETT LIFTING PRODUCTS LTD  
 Oak Drive,  
 Lionheart Enterprise Park  
 Alnwick, Northumberland, NE66 2EU,  
 United Kingdom  
 Tel: 44-1665604200

Invoice NO: 90059797  
 Description: ITEM: X-015-10  
 G100, Connecting Link, 10mm, 3/8"  
 Batch No: YUA  
 Quantity: 1,800 PC

C	Si	Mn	P	S	Cr	Mo	Ni	Fe
0.18-0.30	0.15-0.40	0.70-1.30	<0.035	<0.04	0.40-1.10	0.15-0.40	0.40-1.00	other

Material: Alloy Steel  
 Mini Breaking Load: 157kN  
 Magnetic Flux: 100% of above, quantity  
 Crack Tested

Proof Load Test: 98.1kN  
 100%  
 Fatigue Rate: 58.8kN  
 20000 cycle:  
 Working Load Limit: 4.0 tonnes

TESTING ACCORDING TO ASTM A952/A 952M, DIN PAS 1061, EN1677-1  
 ISO 9001:2015 Certification by DNV and API.  
 Inspection Test Certificate meet the EN 10204 3.1

TEST RESULT  
 Pass

YOKE INDUSTRIAL CORP  
 Jason Lu  
 Dated: May 14, 2019  
 Qualification: QA Manager

Page 81 of 87  
Received by 020-6129278-5899 AM



Safety is our first priority

06 1396

YOKE INDUSTRIAL CORP.

#39, 33<sup>rd</sup> Road, Taichung Industrial Park

TAICHUNG 407, TAIWAN

TEL:+886-4-2350 8088

FAX:+886-4-2350 1001

IMB52628

# Test Certificate

80062821-000450

TO: WILLIAM HACKETT LIFTING PRODUCTS LTD  
 Oak Drive,  
 Lionheart Enterprise Park,  
 Alnwick, Northumberland, NE66 2EU,  
 United Kingdom  
 Tel: 44-1665604200

Invoice NO: 90064302

Description: ITEM: DA-808-19  
 DA Bolt Pin Anchor Shackle, 3/4"  
 (Your PO no. 601644)  
 Batch No.: AAA/AA  
 Quantity: 1,142 PC

C	Si	Mn	P	S	Cr	Mo	Ni	Fe
0.38~0.43	0.15~0.35	0.60~1.00	<0.035	<0.040	0.90~1.00	0.15~0.30	<0.1%	other

Material:	Alloy Steel
Mini Breaking Load:	373kN
Magnetic Flux:	100% of above quantity
Crack Tested:	
Working Load Limit:	4.75tonnes

Proof Load Test 100%:	93kN
Fatigue Rate 20000 cycle:	70kN
Impact Test (T=-40°C):	42J

TESTING ACCORDING TO EN 13889, RR-C-271F, DNVL-ST-E273, EN 12079-2, IMO/MS-Circular 860, ISO 9001:2015 Certification by DNVL and API. Inspection Test Certificate meet the EN 10204 3.1. These shackle have been designed, approved and tested in accordance with DNVL-ST-E271 Offshore Containers. This certificate is based on DNVL type approval NO. S-8059.

TEST RESULT  
 Pass

YOKE INDUSTRIAL CORP  
 Jason Yu  
 Dated: September 30, 2019

Qualification: QA-Manager

Released to Imaging: 7/1/2024 3:13:18 PM



IML52690

REPORT OF THOROUGH EXAMINATION OF LIFTING EQUIPMENT

IN ACCORDANCE WITH LIFTING OPERATIONS AND LIFTING EQUIPMENT REGULATIONS 1998

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NAME & ADDRESS OF COMPANY FOR WHOM THE EXAMINATION WAS MADE	ADDRESS OF THE PREMISES WHERE THE EXAMINATION WAS MADE	DATE OF REPORT
Gates Engineering & Services UK Ltd Bassington Drive Bassington Industrial Estate Cramlington	Tusk Lifting Ltd 49D Sadler Forster Way Teesside Industrial Estate Stockton-On-Tees TS17 9JY	21/01/2020
NE23 8AS		

QTY	ID NO.	DESCRIPTION OF EQUIPMENT INCLUDING MANUFACTURER AND DATE OF MANUFACTURE	SWL / WILL	EWL	EXAM REASON (SEE BELOW)	TEST APPLIED	LATEST DATE OF NEXT THOROUGH EXAMINATION
30.00	IMK52690/01 -	3.6T Safety Clamp CS Galv - 195MM	3.6 TONNE	-	B	PROOF LOAD	21/07/2020
	IMK52690/30	Material CERT : GI9268					
20.00	IML52690/01 -	3.6T Safety Clamp CS Galv - 195MM	3.6 TONNE	-	B	PROOF LOAD	21/07/2020
	IML52690/20	Material CERT : GI9268					

REASON FOR EXAMINATION: **A** - NEW INSTALLATION OR NEW LOCATION; **B** - WITHIN 6 MONTHS; **C** - WITHIN 12 MONTHS; **D** - WRITTEN SCHEME; **E** - EXCEPTIONAL CIRCUMSTANCES.

NAME AND QUALIFICATION OF PERSON MAKING THE REPORT	NAME OF THE PERSON AUTHENTICATING THE REPORT	DATE OF THOROUGH EXAMINATION
Jimmy Joyce, Company Approved Examiner  SIGNATURE	Julie Montgomery, Planner  SIGNATURE	21/01/2020

OPERATING INSTRUCTIONS CAN BE FOUND ON OUR WEBSITE, HTTP://WWW.TUSKLIFTING.CO.UK  
THE ORIGINAL MANUFACTURERS EC DECLARATION OF CONFORMITY IS HELD ON FILE AT OUR PREMISES AND IS AVAILABLE UPON REQUEST

Tusk Lifting Ltd.

49D Sadler Forster Way, Teesside Industrial Estate,  
Stockton On Tees, TS17 9JY

T. 01642 915330  
E. teesside@tusklifting.co.uk  
W. tusklifting.co.uk

VAT. GB258876247  
REG. 10497383



CELSA STEEL UK  
 OFFICES: Build. 58, Castle Works, East Moors Road  
 CF24 5NN Cardiff (United Kingdom)



Cert No: 0038/CFR/LRQ4002811/1  
 DOP: CELSAUK001 EN10025  
 Hot rolled structural steel products

**INSPECTION CERTIFICATE**  
**BS-EN 10204-2004, TYPE 3.1**

Standard  
 BS-EN 10025-2004

Customer:  
 CARTER STEEL LTD  
 YARM ROAD, STOCKTON  
 TS18 3SA STOCKTON  
 United Kingdom

Destination:  
 CARTER STEEL LTD  
 YARM ROAD, STOCKTON  
 TS18 3SA STOCKTON  
 United Kingdom

Delivery number: 2550169238  
 Order number: 15705941  
 Your order: 11049

MATERIAL	CAST	C	MN	SI	S	P	Cr	N	Ni	Cu	Mo	V	CE	Reh	Rm	A	T	Impact	Impact	Impact	Impact
Hot rolled structural steel products		%	%	%	%	%	%	%	%	%	%	%	%	MPa	MPa	5.65	°C	J	J	J	J
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	328	464	34.8					
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	325	467	35.3					
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	329	465	35.2					
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	323	465	35.2					
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.47	0.021	0.001	0.259	317	452	33.8					
S275 JR+AR FL130X12 L.6m	CM124207	0.10	0.56	0.16	0.035	0.022	0.124	0.009	0.14	0.47	0.021	0.001	0.259	323	451	33.8					
S275 JR+AR FL130X12 L.6m	CM127200	0.10	0.54	0.15	0.023	0.018	0.086	0.010	0.11	0.44	0.014	0.002	0.250	308	448	32.5					
S275 JR+AR FL150X12 L.6m	CM127200	0.10	0.54	0.15	0.023	0.018	0.086	0.010	0.11	0.44	0.014	0.002	0.250	308	450	32.0					
S275 JR+AR FL150X12 L.6m	CM127310	0.11	0.57	0.15	0.023	0.019	0.105	0.008	0.10	0.40	0.015	0.001	0.260	298	462	37.6					
S275 JR+AR FL150X6 L.6m	CM127310	0.11	0.57	0.15	0.023	0.019	0.105	0.008	0.10	0.40	0.015	0.001	0.260	319	459	32.5					
S275 JR+AR FL150X6 L.6m	CM127310	0.11	0.57	0.15	0.023	0.019	0.105	0.008	0.10	0.40	0.015	0.001	0.260	318	457	37.5					
S275 JR+AR FL150X6 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	329	448	33.2					
S275 JR+AR FL150X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	326	447	33.8					
S275 JR+AR FL150X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	322	448	33.9					
S275 JR+AR FL50X15 L.6m	CM124647	-0.08	-0.53	-0.14	-0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	322	448	33.9					

The materials has been evaluated and radiation is within national limits  
 Product suitable for galvanizing 0.14<=Si<=0.25% & P<=0.035%

Certified that the material detailed hereon meets the requirements of the specified standard.

Steel making process  
 Electric arc

Cardiff, 20.08.2019

Stuart Thomas  
 Quality Manager

CARTER STEEL LTD  
 ORDER NO: 11049  
 DATE: 21.8.2019  
 CHECKED BY: [Signature]



# 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.)



VAM USA  
 2107 CityWest Boulevard Suite 1300  
 Houston, TX 77042  
 Phone: 713-479-3200  
 Fax: 713-479-3234  
 E-mail: [VAMUSAsales@vam-usa.com](mailto:VAMUSAsales@vam-usa.com)

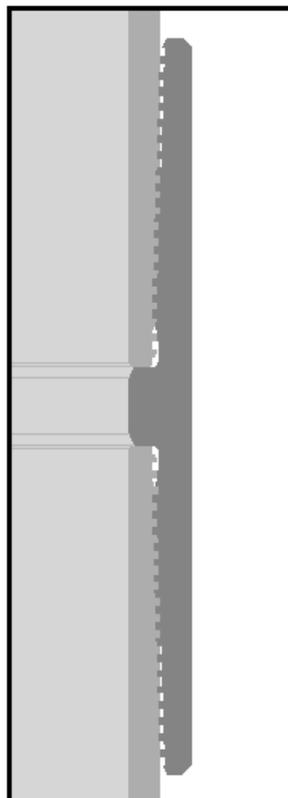
**Pipe Dimensions**  
 5.500 Nominal Pipe Body O.D. (in.)  
 4.670 Nominal Pipe Body I.D. (in.)  
 0.415 Nominal Wall Thickness (in.)  
 23.00 Nominal Weight (lbs./ft.)  
 22.56 Plain End Weight (lbs./ft.)  
 6.630 Nominal Pipe Body Area (sq. in.)

**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).

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.

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

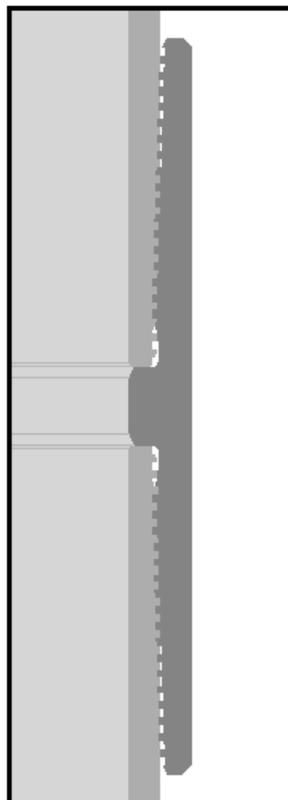
10/08/2020 3:58 PM



VAM USA  
 2107 CityWest Boulevard Suite 1300  
 Houston, TX 77042  
 Phone: 713-479-3200  
 Fax: 713-479-3234  
 E-mail: [VAMUSAsales@vam-usa.com](mailto:VAMUSAsales@vam-usa.com)

#### DWC Connection Data 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.



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All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

10/08/2020 3:58 PM

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 354759

**CONDITIONS**

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 354759
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	7/1/2024
pkautz	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	7/1/2024
pkautz	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	7/1/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	7/1/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	7/1/2024