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

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No. **30-025-53123**

3a. Address

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

10. Field and Pool, or Exploratory

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

At surface

At proposed prod. zone

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

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

12. County or Parish

13. State

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

24. Attachments

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

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

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

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 06/14/2024

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

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-53123	98177	WC-025 G-09 S223332A; UPR Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
336010	TRISTE DRAW 36-25 FEDERAL COM	402H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3656.8'

[10] 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	2405	WEST	LEA

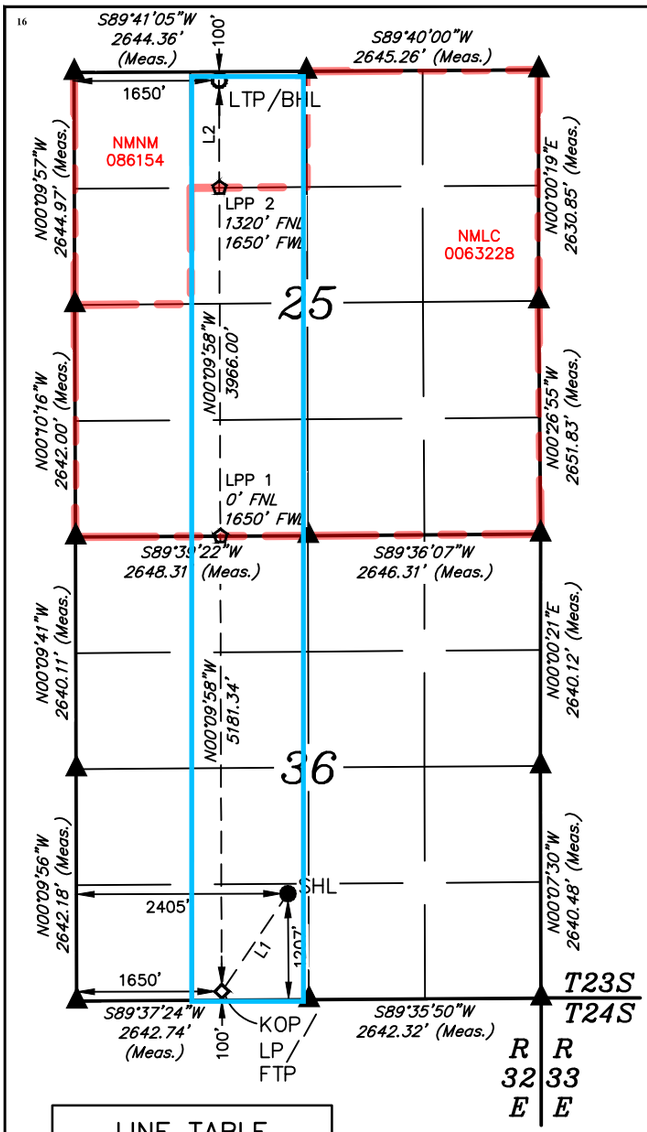
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	25	23S	32E		100	NORTH	1650	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320			

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

[16]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S34°03'34"W	1342.43'
L2	N00°09'58"W	1220.14'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°15'26.14" (32.257262°)
LONGITUDE = -103°37'44.72" (-103.629089°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°15'25.70" (32.257138°)
LONGITUDE = -103°37'42.99" (-103.628608°)
STATE PLANE NAD 83 (N.M. EAST)
N: 458039.06' E: 759035.49'
STATE PLANE NAD 27 (N.M. EAST)
N: 457979.92' E: 717851.77'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°15'15.16" (32.254210°)
LONGITUDE = -103°37'53.50" (-103.631529°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°15'14.71" (32.254086°)
LONGITUDE = -103°37'51.77" (-103.631048°)
STATE PLANE NAD 83 (N.M. EAST)
N: 456923.97' E: 758288.46'
STATE PLANE NAD 27 (N.M. EAST)
N: 456864.86' E: 717104.71'

NAD 83 (LPP 1)
LATITUDE = 32°16'06.42" (32.268450°)
LONGITUDE = -103°37'53.54" (-103.631538°)
NAD 27 (LPP 1)
LATITUDE = 32°16'05.97" (32.268326°)
LONGITUDE = -103°37'51.80" (-103.631056°)
STATE PLANE NAD 83 (N.M. EAST)
N: 462104.27' E: 758251.74'
STATE PLANE NAD 27 (N.M. EAST)
N: 462045.01' E: 717068.12'

NAD 83 (LPP 2)
LATITUDE = 32°16'45.66" (32.279349°)
LONGITUDE = -103°37'53.56" (-103.631545°)
NAD 27 (LPP 2)
LATITUDE = 32°16'45.21" (32.279226°)
LONGITUDE = -103°37'51.83" (-103.631063°)
STATE PLANE NAD 83 (N.M. EAST)
N: 466069.48' E: 758223.62'
STATE PLANE NAD 27 (N.M. EAST)
N: 466010.11' E: 717040.10'

NAD 83 (LTP/BHL)
LATITUDE = 32°16'57.73" (32.282702°)
LONGITUDE = -103°37'53.57" (-103.631547°)
NAD 27 (LTP/BHL)
LATITUDE = 32°16'57.28" (32.282579°)
LONGITUDE = -103°37'51.83" (-103.631065°)
STATE PLANE NAD 83 (N.M. EAST)
N: 467289.38' E: 758214.97'
STATE PLANE NAD 27 (N.M. EAST)
N: 467229.97' E: 717031.48'

[17] 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

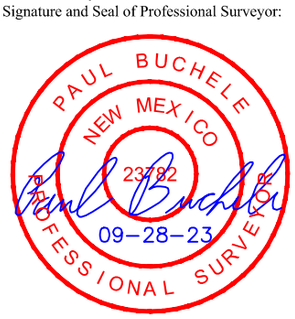
shelly.bowen@coterra.com
E-mail Address

[18] 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:

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

2000' 1000' 0' 2000'
SCALE
DRAWN BY: D.J.S. 09-28-23

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 Com 402H		N, Sec 36 T23S, R32E	1207 FSL/2405 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 Com 402H		7/15/2025	10/11/2025	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:	Sarah Jordan
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
MD at TD 22,662

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1238	N/A	
Top of Salt	1731	N/A	
Lamar	5036	N/A	
Bell Canyon	5087	Hydrocarbons	
Cherry Canyon	5940	Hydrocarbons	
Brushy Canyon	7318	Hydrocarbons	
Basal Brushy Canyon	8633	N/A	
Bone Spring Lime	8850	N/A	
Leonard/Avalon Sand	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	12717	12405	7-5/8"	29.70	L-80	LT&C	1.85	0.89	1.54
6 3/4	0	11917	11917	5-1/2"	23.00	L-80	LT&C	1.50	1.33	2.18
6 3/4	11917	22662	12445	5"	18.00	P-110	BT&C	1.73	1.75	61.03
						BLM Minimum Safety Factor		1.125	1	1.6 Dry 1.8 Wet

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

	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	1006	10.30	3.64	22.18		Lead: Tuned Light + LCM
	198	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Production	1385	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	12517	25

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
9 7/8	**13 5/8**	**10M**	Annular	5M	50% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		
6 3/4	**13 5/8**	**10M**	Annular	5M	50% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		

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

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1320'	Fresh Water	7.83 - 8.33	28	N/C
1320' to 12717'	Brine Diesel Emulsion	11.50 - 12.00	30-35	N/C
12717' to 22662'	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

6. Logging and Testing Procedures

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

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	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

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

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

BOPE Additional Information & Testing

1. After running the first string of casing, a 10M BOP/BOPE system with 5M annular will be installed. BOPs will be tested according to Onshore

Order #2. BOPE will be tested to full rated pressure (10K for all BOPE except the annular, which is tested to 5K). For the low test, the system will be tested to

250 psi.

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

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

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

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

requirements.

Additional Well Control Notes

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 402H Rev0 mdv 19Oct23 Proposal
Geodetic Report
Def Plan

Report Date:	October 23, 2023 - 09:46 PM (UTC 0)	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	COTERRA	**Vertical Section Azimuth:**	359.590 °(GRID North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Coterra Triste Draw 36-25 Fed Com E2W2 Pad / 402H	**TVD Reference Datum:**	RKB
Well:	Triste Draw 36-25 Federal Com 402H	**TVD Reference Elevation:**	3679.800 ft above MSL
Borehole:	Triste Draw 36-25 Federal Com 402H	**Seabed / Ground Elevation:**	3656.800 ft above MSL
UBHI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.242°
Survey Name:	Coterra Triste Draw 36-25 Federal Com 402H Rev0 mdv 19Oct23	**Total Gravity Field Strength:**	998.4377mgn (9.80665 Based)
Survey Date:	October 23, 2023	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	110.005 ° / 11708.255 ft / 6.370 / 0.941	**Total Magnetic Field Strength:**	47454.894 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.802°
Location Lat / Long:	32°15'26.14156"N , 103°37'44.72011"W	**Declination Date:**	September 29, 2023
Location Grid N/E Y/X:	N 458039.060 ftUS , E 759035.490 ftUS	**Magnetic Declination Model:**	HDGM 2023
CRS Grid Convergence Angle:	0.376°	**North Reference:**	Grid North
Grid Scale Factor:	0.99996337	**Grid Convergence Used:**	0.376°
Version / Patch:	2023.1.0.1	**Total Corr Mag North->Grid North:**	5.866°
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
SHL [1207' FSL, 2405' FWL]	0.00	0.00	213.82	0.00	-3,679.80	0.00	0.00	0.00		458,039.06	759,035.49	32.25726154	-103.62908892
Nudge, Build 2°/100ft	1,800.00	0.00	213.82	1,800.00	-1,879.80	0.00	0.00	0.00	0.00	458,039.06	759,035.49	32.25726154	-103.62908892
Hold	2,300.06	10.00	213.82	2,297.52	-1,382.28	-35.99	-36.17	-24.23	2.00	458,002.89	759,011.26	32.25716258	-103.62916806
Drop 2°/100ft	9,527.36	10.00	213.82	9,415.00	5,735.20	-1,073.73	-1,078.93	-722.83	0.00	456,960.17	758,312.69	32.25430902	-103.63144982
Hold	10,027.42	0.00	213.82	9,912.52	6,232.72	-1,109.73	-1,115.10	-747.06	2.00	456,924.00	758,288.46	32.25421005	-103.63152896
KOP, Build 10°/100ft	11,967.42	0.00	213.82	11,852.52	8,172.72	-1,109.73	-1,115.10	-747.06	0.00	456,924.00	758,288.46	32.25421005	-103.63152896
Build 5°/100ft	12,717.42	75.00	359.59	12,405.95	8,726.15	-685.06	-690.45	-750.10	10.00	457,348.64	758,285.42	32.25537730	-103.63152981
Landing Point	13,017.42	90.00	359.59	12,445.00	8,765.20	-388.48	-393.87	-752.21	5.00	457,645.21	758,283.31	32.25619251	-103.63153037
Triste Draw 36-25 Federal Com 402H LPP1	17,476.76	90.00	359.59	12,445.00	8,765.20	4,070.87	4,065.37	-783.78	0.00	462,104.27	758,251.74	32.26844963	-103.63153817
Triste Draw 36-25 Federal Com 402H LPP2	21,442.23	90.00	359.59	12,445.00	8,765.20	8,036.33	8,030.73	-811.90	0.00	466,069.48	758,223.62	32.27934922	-103.63154524
Triste Draw 36-25 Federal Com 402H BHL [100' FNL, 1650' FWL]	22,662.20	90.00	359.59	12,445.00	8,765.20	9,256.31	9,250.68	-820.55	0.00	467,289.38	758,214.97	32.28270248	-103.63154741

Survey Type: Def Plan

Survey Error Model: ISCWSA0 3 - D 95 % Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	10,362.600	1/100.000	'.5 – 12.25 – 8.75	3.375 – 9.625 – 7		A001Mb_MWD		Triste Draw 36-25 Federal Com 402H / Coterra Tris
	1	10,362.600	19,511.579	1/100.000	8.75 – 6	7 – 4.5		A008Mb_MWD+IFR1+MS		Triste Draw 36-25 Federal Com 402H / Coterra Tris

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,188.800	17.500	13.375	
4,814.545	12.250	9.625	
12,200.800	8.750	7.000	
22,662.203	6.000	4.500	

COTERRA Rev0

Borehole:	Well:	Field:	Structure:
Triste Draw 36-25 Federal Com 402H	Triste Draw 36-25 Federal Com 402H	NM Lea County (NAD 83)	Coterra Triste Draw 36-25 Fed Com E2W2 Pad

Gravity & Magnetic Parameters

Model:	HDGM 2023	Dip:	59.802°	Date:	29-Sep-2023
MagDec:	6.242°	FS:	47454.894nT	Gravity FS:	998.438mgn (9.80665 Based)

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet

Lat:	N 32 15 26.14	Northing:	458039.06ftUS	Grid Conv:	0.3759°
Lon:	W 103 37 44.72	Easting:	759035.49ftUS	Scale Fact:	0.99996337

Miscellaneous

Slot:	402H	TVD Ref:	RKB (3679.800 ft above MSL)
Plan:	Coterra Triste Draw 36-25 Federal Com 402H Rev0 mdv 19Oct23		

Critical Points

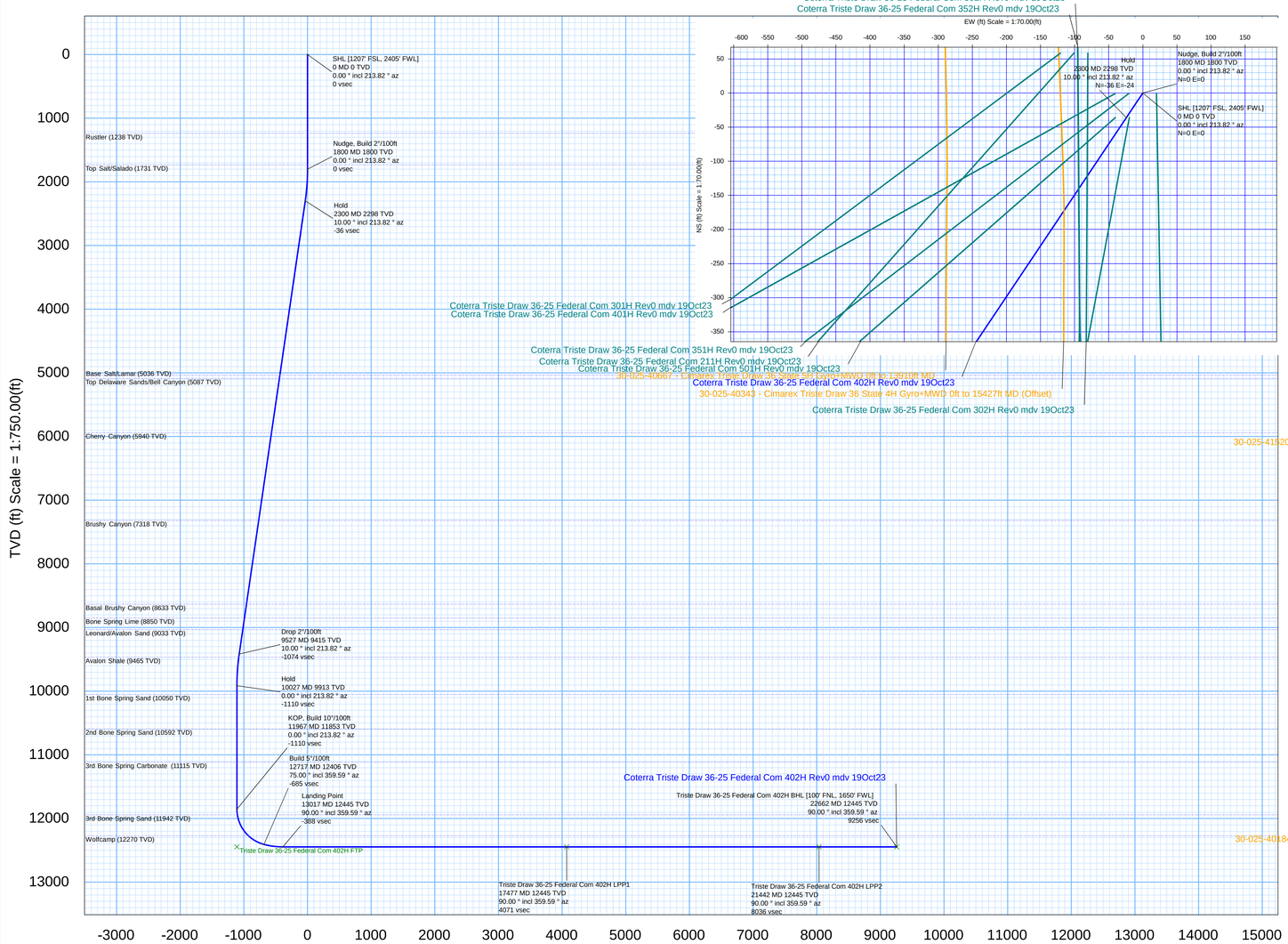
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [1207' FSL, 2405' FWL]	0.00	0.00	213.82	0.00	0.00	0.00	0.00	
Rustler	1238.00	0.00	213.82	1238.00	0.00	0.00	0.00	0.00
Top Salt/Salado	1731.00	0.00	213.82	1731.00	0.00	0.00	0.00	0.00
Nudge, Build 2°/100ft	1800.00	0.00	213.82	1800.00	0.00	0.00	0.00	0.00
Hold	2300.06	10.00	213.82	2297.52	-35.99	-36.17	-24.23	2.00
Base Salt/Lamar	5080.79	10.00	213.82	5036.00	-435.27	-437.38	-293.02	0.00
Top Delaware Sands/Bell Canyon	5132.58	10.00	213.82	5087.00	-442.70	-444.85	-298.02	0.00
Cherry Canyon	5998.74	10.00	213.82	5940.00	-567.07	-569.82	-381.75	0.00
Brushy Canyon	7398.00	10.00	213.82	7318.00	-767.99	-771.71	-517.00	0.00
Basal Brushy Canyon	8733.29	10.00	213.82	8633.00	-959.72	-964.36	-646.08	0.00
Bone Spring Lime	8953.64	10.00	213.82	8850.00	-991.36	-996.16	-667.37	0.00
Leonard/Avalon Sand	9139.47	10.00	213.82	9033.00	-1018.04	-1022.97	-685.34	0.00
Drop 2°/100ft	9527.36	10.00	213.82	9415.00	-1073.73	-1078.93	-722.83	0.00
Avalon Shale	9578.05	8.99	213.82	9465.00	-1080.65	-1085.88	-727.48	2.00
Hold	10027.42	0.00	213.82	9912.52	-1109.73	-1115.10	-747.06	2.00
1st Bone Spring Sand	10164.90	0.00	213.82	10050.00	-1109.73	-1115.10	-747.06	0.00
2nd Bone Spring Sand	10706.90	0.00	213.82	10592.00	-1109.73	-1115.10	-747.06	0.00
3rd Bone Spring Carbonate	11229.90	0.00	213.82	11115.00	-1109.73	-1115.10	-747.06	0.00
KOP, Build 10°/100ft	11967.42	0.00	213.82	11852.52	-1109.73	-1115.10	-747.06	0.00
3rd Bone Spring Sand	12057.26	8.98	359.59	11942.00	-1102.70	-1108.07	-747.11	10.00
Wolfcamp	12435.14	46.77	359.59	12270.00	-929.18	-934.56	-748.35	10.00
Build 5°/100ft	12717.42	75.00	359.59	12405.95	-685.06	-690.45	-750.10	10.00
Landing Point	13017.42	90.00	359.59	12445.00	-388.48	-393.87	-752.21	5.00
Triste Draw 36-25 Federal Com 402H LPP1	17476.76	90.00	359.59	12445.00	4070.87	4065.37	-783.78	0.00
Triste Draw 36-25 Federal Com 402H LPP2	21442.23	90.00	359.59	12445.00	8036.33	8030.73	-811.90	0.00
Triste Draw 36-25 Federal Com 402H BHL [100' FNL, 1650' FWL]	22662.20	90.00	359.59	12445.00	9256.31	9250.68	-820.55	0.00

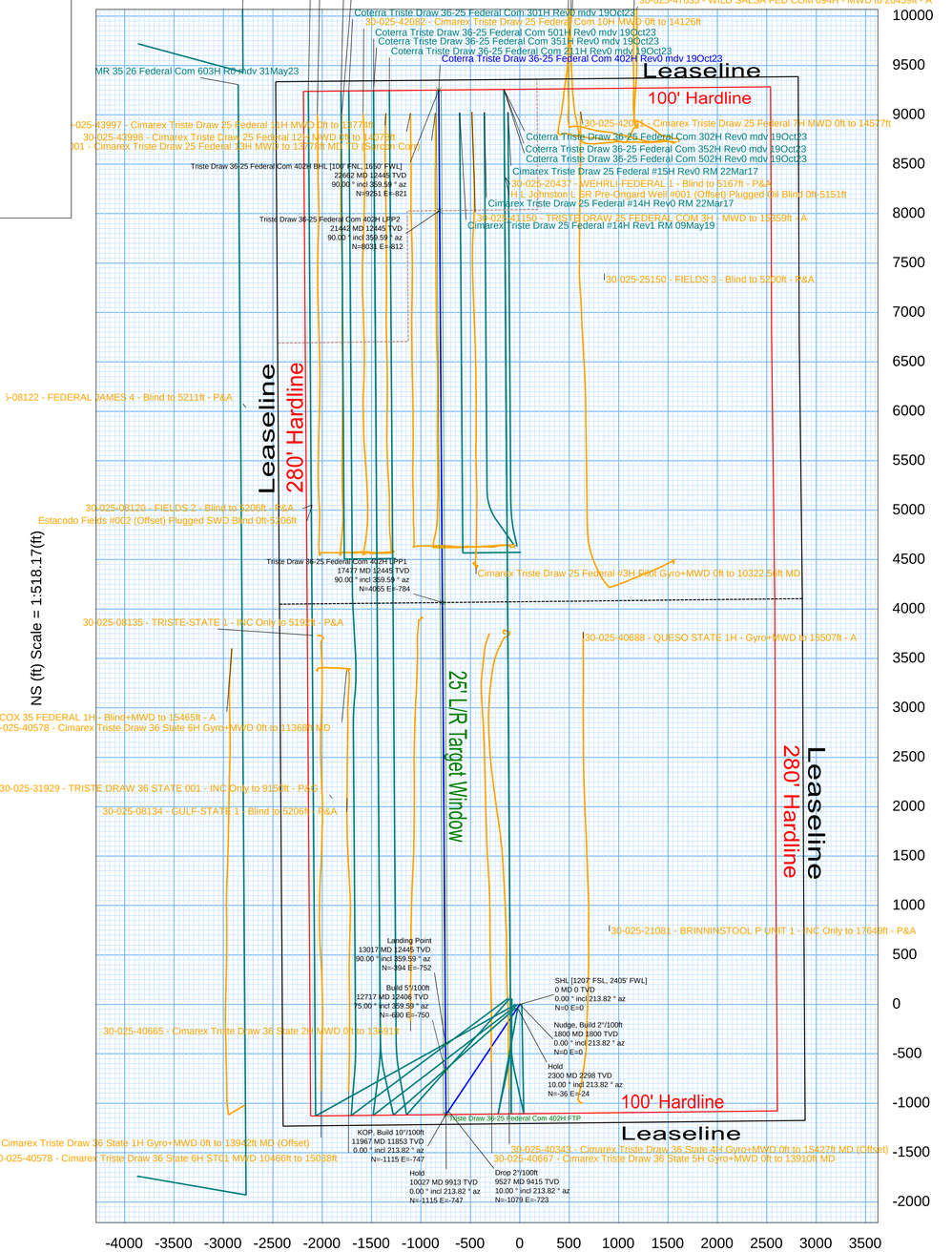
D E C **CONTROLLED**

Plan ref	Coterra Triste Draw 36-25 Federal Com 402H Rev0 mdv 19Oct23
Drawing ref	
Copy number	of 3
Date	24-Oct-2023

1	Client	
2	Client	
3	Office	
4	Office	

Copy number for





Coterra Triste Draw 36-25 Federal Com 402H Rev0 mdv 19Oct23 Anti-Collision Summary Report

Analysis Date-24hr Time:	October 23, 2023 - 09:45 PM (UTC 0)	**Analysis Method:**	3D Least Distance
Client:	COTERRA	**Reference Trajectory:**	Coterra Triste Draw 36-25 Federal Com 402H Rev0 mdv 19Oct23 (Def Plan)
Field:	NM Lea County (NAD 83)	**Depth Interval:**	Every 10.00 Measured Depth (ft)
Structure:	Coterra Triste Draw 36-25 Fed Com E2W2 Pad	**Rule Set:**	NAL Procedure: D&M AntiCollision Standard S002
Slot:	402H	**Min Pts:**	Absolute minima indicated.
Well:	Triste Draw 36-25 Federal Com 402H	**Engine Version:**	2023.1.0.1
Borehole:	Triste Draw 36-25 Federal Com 402H	**Database \ Project:**	Triste Draw 36-25 Federal Com 402H--COTERRA
Scan MD Range:	0.00ft ~ 22662.20ft		

Trajectory Error Model: ISCWSA0 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

46 out of 47 are selected

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
30-025-41520 - COX 35 FEDERAL 1H - Blind+MWD to 15465ft - A (DefinitiveSurvey)													Fail Major
	2961.99	32.81	2960.01	2929.18	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	2961.98	32.81	**2960.00**	**2929.17**	#########	MAS = 10.00 (m)	10.00	10.00					MinPts
	2961.98	32.81	2960.00	2929.17	#########	MAS = 10.00 (m)	23.00	23.00					WRP
	2962.51	909.27	2355.67	2053.24	4.89	OSF1.50	560.00	560.00	OSF<5.00				Enter Alert
	2966.19	2983.89	976.35	-17.70	1.49	OSF1.50	1570.00	1570.00		OSF<1.50			Enter Minor
	2939.78	4418.08	-6.19	-1478.30	1.00	OSF1.50	2270.00	2267.89			OSF<1.00		Enter Major
	2180.69	19888.37	-11078.76	-17707.68	0.16	OSF1.50	9875.08	9760.26					MinPt-CtCt
	2200.21	21284.86	**-11990.24**	**-19084.66**	**0.15**	OSF1.50	10590.00	10475.10					MinPts
	2203.39	21285.86	-11987.72	**-19082.47**	0.16	OSF1.50	10700.00	10585.10					MinPt-ADP
	2240.43	21183.09	**-11882.17**	**-18942.67**	**0.16**	OSF1.50	11200.00	11085.10					MinPts
	2635.89	18134.75	-9454.44	-15498.86	**0.22**	OSF1.50	13070.00	12445.00					MinPt-SF
	2637.95	18141.60	**-9456.95**	-15503.65	0.22	OSF1.50	13170.00	12445.00					MinPt-EOU
	2638.51	18142.27	-9456.83	**-15503.76**	0.22	OSF1.50	13190.00	12445.00					MinPt-ADP
	2634.55	18051.02	-9399.96	**-15416.46**	0.22	OSF1.50	13760.00	12445.00					MinPt-ADP
	2634.36	18050.77	**-9399.99**	-15416.41	0.22	OSF1.50	13770.00	12445.00					MinPt-EOU
	2633.37	18047.26	-9398.64	-15413.89	**0.22**	OSF1.50	13840.00	12445.00					MinPt-SF
	2632.99	18039.64	-9393.94	-15406.65	0.22	OSF1.50	13920.00	12445.00					MinPt-CtCt
	2631.70	18027.45	-9387.10	-15395.75	0.22	OSF1.50	14270.00	12445.00					MinPt-CtCt
	2632.09	18031.94	-9389.70	-15399.85	**0.22**	OSF1.50	14370.00	12445.00					MinPt-SF
	2632.32	18033.24	**-9390.34**	-15400.92	0.22	OSF1.50	14400.00	12445.00					MinPt-EOU
	2632.35	18033.28	-9390.33	**-15400.92**	0.22	OSF1.50	14410.00	12445.00					MinPt-ADP
	2632.18	18031.65	-9389.42	-15399.47	**0.22**	OSF1.50	14450.00	12445.00					MinPt-SF
	2624.15	17988.41	-9368.62	**-15364.25**	0.22	OSF1.50	14740.00	12445.00					MinPt-ADP
	2622.06	17985.83	**-9368.99**	-15363.76	0.22	OSF1.50	14790.00	12445.00					MinPt-EOU
	2615.67	17975.64	**-9368.59**	-15359.97	0.22	OSF1.50	14980.00	12445.00					MinPt-EOU
	2606.09	17956.42	-9365.36	**-15350.33**	0.22	OSF1.50	15360.00	12445.00					MinPt-ADP
	2604.95	17955.05	**-9365.58**	-15350.10	0.22	OSF1.50	15410.00	12445.00					MinPt-EOU
	2604.12	17953.14	-9365.14	-15349.02	**0.22**	OSF1.50	15480.00	12445.00					MinPt-SF
	2599.79	17947.73	-9365.86	**-15347.94**	0.22	OSF1.50	15630.00	12445.00					MinPt-ADP
	2599.11	17946.94	**-9366.02**	-15347.83	0.22	OSF1.50	15650.00	12445.00					MinPt-EOU
	2586.58	17949.94	-9380.54	-15363.35	0.22	OSF1.50	16170.00	12445.00					MinPt-CtCt
	2586.88	17954.35	-9383.18	-15367.47	**0.22**	OSF1.50	16240.00	12445.00					MinPt-SF
	2588.36	17971.33	-9393.03	-15382.97	**0.22**	OSF1.50	16510.00	12445.00					MinPt-SF
	2588.60	17972.39	**-9393.49**	**-15383.79**	0.22	OSF1.50	16550.00	12445.00					MinPts
	2571.90	17898.04	-9360.63	-15326.14	**0.22**	OSF1.50	16880.00	12445.00					MinPt-SF
	2568.19	17880.74	-9352.80	-15312.55	0.22	OSF1.50	17030.00	12445.00					MinPt-CtCt
	2568.39	17882.62	-9353.86	-15314.23	**0.22**	OSF1.50	17060.00	12445.00					MinPt-SF
	3142.74	19132.67	**-9612.88**	-15989.94	0.25	OSF1.50	18840.00	12445.00					MinPt-EOU
	3557.26	19641.32	-9537.45	**-16084.06**	0.27	OSF1.50	19490.00	12445.00					MinPt-ADP
	6191.36	20784.62	-7665.55	-14593.26	0.45	OSF1.50	22662.20	12445.00					TD
30-025-08134 - GULF-STATE 1 - Blind to 5206ft - P&A (DefinitiveSurvey)													Fail Major
	2721.48	32.81	2719.50	2688.67	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	2721.40	32.81	2719.41	2688.59	**223169.05**	MAS = 10.00 (m)	10.00	10.00					MinPt-SF
	2721.35	32.81	2719.36	2688.54	428959.32	MAS = 10.00 (m)	23.00	23.00					WRP
	2721.34	819.73	2174.20	1901.62	4.99	OSF1.50	470.00	470.00	OSF<5.00				Enter Alert
	2721.34	2729.03	901.40	-7.69	1.50	OSF1.50	1390.00	1390.00		OSF<1.50			Enter Minor
	2721.34	3580.01	334.08	-858.67	1.14	OSF1.50	1800.00	1800.00					MinPt-CtCt
	2724.41	4098.25	-8.34	-1373.83	1.00	OSF1.50	2050.00	2049.68			OSF<1.00		Enter Major
	2928.15	10703.62	-4208.13	-7775.46	**0.41**	OSF1.50	5280.00	5232.18					MinPt-SF
	2928.95	10704.85	**-4208.15**	**-7775.90**	0.41	OSF1.50	5290.00	5242.03					MinPts
	4822.77	7235.84	-1.66	-2413.07	1.00	OSF1.50	8890.00	8787.33			OSF>1.00		Exit Major
	5989.47	5995.73	1991.78	-6.26	1.50	OSF1.50	10310.00	10195.10		OSF>1.50			Exit Minor
	7372.31	2222.09	5890.42	5150.22	4.98	OSF1.50	14330.00	12445.00	OSF>5.00				Exit Alert
	7278.15	1443.50	6315.32	5834.65	7.57	OSF1.50	15500.00	12445.00					MinPt-CtCt
	7370.87	2214.42	5894.09	5156.45	5.00	OSF1.50	16670.00	12445.00	OSF<5.00				Enter Alert
	8710.46	6006.22	**4705.81**	2704.24	2.18	OSF1.50	20290.00	12445.00					MinPt-EOU
	9493.47	6964.49	4849.98	**2528.98**	2.04	OSF1.50	21600.00	12445.00					MinPt-ADP
	10199.46	7572.69	5150.50	2626.77	**2.02**	OSF1.50	22650.00	12445.00					MinPt-SF
	10208.01	7579.03	5154.83	2628.99	2.02	OSF1.50	22662.20	12445.00					TD
30-025-08120 - FIELDS 2 - Blind to 5206ft - P&A (DefinitiveSurvey)													Fail Major
	5472.24	32.81	5462.51	5439.43	705.96	MAS = 10.00 (m)	0.00	0.00					Surface
	5472.24	37.47	5446.60	5434.77	231.19	OSF1.50	23.00	23.00					WRP
	5472.24	1656.78	4367.06	3815.46	4.96	OSF1.50	880.00	880.00	OSF<5.00				Enter Alert
	5472.24	3566.08	3094.26	1906.16	2.30	OSF1.50	1800.00	1800.00					MinPt-CtCt
	5542.47	5559.30	1835.68	-16.83	1.50	OSF1.50	2770.00	2760.32		OSF<1.50			Enter Minor
	5690.54	8543.59	-5.78	-2853.05	1.00	OSF1.50	4230.00	4198.14			OSF<1.00		Enter Major
	5797.25	10593.40	**-1265.56**	**-4796.15**	**0.82**	OSF1.50	5240.00	5192.79					MinPts
	6548.15	9824.75	-2.22	-3276.60	1.00	OSF1.50	7720.00	7635.10			OSF>1.00		Exit Major
	8173.39	8185.20	2716.05	-11.81	1.50	OSF1.50	10490.00	10375.10		OSF>1.50			Exit Minor
	8743.07	5905.48	**4805.58**	2837.59	2.22	OSF1.50	13780.00	12445.00					MinPt-EOU
	7424.63	2229.78	5937.61	5194.85	5.00	OSF1.50	17630.00	12445.00	OSF>5.00				Exit Alert
	7376.58	1890.78	6115.56	5485.80	5.86	OSF1.50	18470.00	12445.00					MinPt-CtCt
	7425.01	2234.97	5934.53	5190.04	4.99	OSF1.50	19320.00	12445.00	OSF<5.00				Enter Alert
	8482.95	5486.87	**4824.54**	**2996.09**	**2.32**	OSF1.50	22662.20	12445.00					MinPts

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

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
30-025-08122 - FEDERAL JAMES 4 - Blind to 5211ft - P&A (DefinitiveSurvey)													Fail Major
	6641.92	32.81	6628.04	6609.11	557.99	MAS = 10.00 (m)	0.00	0.00				Surface	
	6641.92	43.70	6612.13	6598.22	238.74	OSF1.50	23.00	23.00				WRP	
	6641.92	2011.10	5300.52	4630.82	4.96	OSF1.50	1000.00	1000.00	OSF<5.00			Enter Alert	
	6641.92	3671.34	4193.77	2970.58	2.71	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	6758.97	6768.33	2246.16	-9.36	1.50	OSF1.50	3310.00	3292.12		OSF<1.50		Enter Minor	
	6932.66	10406.57	-5.59	-3473.91	1.00	OSF1.50	5090.00	5045.07			OSF<1.00	Enter Major	
	6948.74	10715.26	-195.31	-3766.53	0.97	OSF1.50	5250.00	5202.64				MinPts	
	7090.45	10635.20	-0.22	-3544.75	1.00	OSF1.50	6120.00	6059.42			OSF>1.00	Exit Major	
	8919.49	8929.41	2966.01	-9.92	1.50	OSF1.50	10240.00	10125.10		OSF>1.50		Exit Minor	
	9536.81	6960.92	4895.70	2575.89	2.06	OSF1.50	13590.00	12445.00				MinPt-ADP	
	8749.80	5998.26	4750.46	2751.54	2.19	OSF1.50	14980.00	12445.00				MinPt-EOU	
	7514.77	2820.22	5634.13	4694.55	4.00	OSF1.50	19460.00	12445.00				MinPt-CtCt	
	8167.84	4938.84	4874.79	3229.01	2.48	OSF1.50	22662.20	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 351H Rev0 mdv 19Oct23 (DefinitivePlan)													Fail Minor
	19.99	16.25	18.71	3.74	N/A	MAS = 4.95 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	19.99	16.25	18.70	3.74	26395.85	MAS = 4.95 (m)	23.00	23.00				WRP	
	19.99	16.75	8.40	3.24	1.81	OSF1.50	1090.00	1090.00				MinPts	
	19.99	20.05	6.29	-0.06	1.50	OSF1.50	1330.00	1330.00		OSF<1.50		Enter Minor	
	19.99	26.97	1.68	-6.98	1.10	OSF1.50	1790.00	1790.00				MinPt-CtCt	
	20.49	28.68	1.04	-8.19	1.06	OSF1.50	1910.00	1909.97				MinPt-EOU	
	20.59	28.82	1.05	-8.23	1.06	OSF1.50	1920.00	1919.96				MinPt-SF	
	21.05	29.36	1.15	-8.30	1.06	OSF1.50	1960.00	1959.92				MinPt-ADP	
	34.39	34.80	10.86	-0.41	1.48	OSF1.50	2350.00	2346.71		OSF>1.50		Exit Minor	
	195.33	59.38	155.41	135.95	4.99	OSF1.50	3880.00	3853.46	OSF>5.00			Exit Alert	
	737.97	174.85	621.08	563.12	6.36	OSF1.50	11670.00	11555.10				MinPt-SF	
	730.84	180.25	610.34	550.59	6.11	OSF1.50	12030.00	11914.98				MinPt-CtCt	
	731.27	181.79	609.74	549.47	6.06	OSF1.50	12120.00	12003.31				MinPt-EOU	
	731.47	182.04	609.78	549.43	6.05	OSF1.50	12140.00	12022.51				MinPt-ADP	
	732.69	182.72	610.55	549.97	6.04	OSF1.50	12230.00	12106.01				MinPt-SF	
	722.69	174.37	606.11	548.32	6.24	OSF1.50	13030.00	12445.00				MinPt-ADP	
	722.64	174.31	606.11	548.33	6.25	OSF1.50	13040.00	12445.00				MinPt-EOU	
	722.63	174.29	606.11	548.34	6.25	OSF1.50	13050.00	12445.00				MinPt-CtCt	
	722.86	217.60	577.46	505.26	5.00	OSF1.50	16450.00	12445.00	OSF<5.00			Enter Alert	
	722.89	342.96	493.92	379.93	3.17	OSF1.50	21540.00	12445.00				MinPt-CtCt	
	722.93	374.59	472.68	348.34	2.90	OSF1.50	22662.20	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 352H Rev0 mdv 19Oct23 (DefinitivePlan)													Fail Minor
	20.00	16.26	18.72	3.74	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	16.75	8.41	3.25	1.82	OSF1.50	1090.00	1090.00				MinPts	
	20.00	20.05	6.31	-0.05	1.50	OSF1.50	1330.00	1330.00		OSF<1.50		Enter Minor	
	20.00	27.12	1.59	-7.12	1.09	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	20.25	27.83	1.37	-7.58	1.08	OSF1.50	1850.00	1850.00				MinPts	
	20.49	28.12	1.42	-7.63	1.08	OSF1.50	1870.00	1869.99				MinPt-ADP	
	31.74	31.85	10.17	-0.12	1.49	OSF1.50	2140.00	2139.20		OSF>1.50		Exit Minor	
	184.50	56.06	146.80	128.44	5.00	OSF1.50	3640.00	3617.10	OSF>5.00			Exit Alert	
	705.78	149.79	605.60	556.00	7.10	OSF1.50	8810.00	8708.54				MinPt-SF	
	769.03	170.39	655.10	598.63	6.80	OSF1.50	12060.00	11944.70				MinPt-SF	
	722.89	217.66	577.46	505.23	5.00	OSF1.50	16780.00	12445.00	OSF<5.00			Enter Alert	
	722.77	281.67	534.66	441.10	3.86	OSF1.50	19440.00	12445.00				MinPt-CtCt	
	722.84	371.18	475.06	351.67	2.92	OSF1.50	22662.20	12445.00				MinPts	
30-025-20437 - WEHRLI-FEDERAL 1 - Blind to 5167ft - P&A (DefinitiveSurvey)													Fail Minor
	8369.85	33.32	8346.98	8336.53	400.50	OSF1.50	0.00	0.00				Surface	
	8369.85	57.19	8331.07	8312.66	227.35	OSF1.50	23.00	23.00				WRP	
	8369.85	2527.26	6684.43	5842.59	4.97	OSF1.50	1280.00	1280.00	OSF<5.00			Enter Alert	
	8369.85	3606.55	5964.90	4763.30	3.48	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	8692.12	8706.70	2887.07	-14.58	1.50	OSF1.50	4290.00	4257.23		OSF<1.50		Enter Minor	
	8821.63	10511.41	1813.48	-1689.79	1.26	OSF1.50	5180.00	5133.70				MinPts	
	9894.57	9900.23	3293.88	-5.66	1.50	OSF1.50	8550.00	8452.49		OSF>1.50		Exit Minor	
	10347.82	7432.40	5392.39	2915.42	2.09	OSF1.50	14490.00	12445.00				MinPt-SF	
	9560.26	6764.84	5049.87	2795.42	2.12	OSF1.50	15660.00	12445.00				MinPt-ADP	
	8785.71	5818.00	4906.54	2967.71	2.27	OSF1.50	16960.00	12445.00				MinPt-EOU	
	7491.28	2256.14	5986.69	5235.14	4.98	OSF1.50	20320.00	12445.00	OSF>5.00			Exit Alert	
	7348.56	983.99	6692.06	6364.57	11.22	OSF1.50	21775.33	12445.00				MinPt-CtCt	
	7401.88	1597.68	6336.26	5804.20	6.95	OSF1.50	22662.20	12445.00				MinPts	
30-025-25150 - FIELDS 3 - Blind to 5200ft - P&A (DefinitiveSurvey)													Fail Minor
	7439.29	33.32	7416.42	7405.97	355.96	OSF1.50	0.00	0.00				Surface	
	7439.29	57.19	7400.51	7382.10	202.07	OSF1.50	23.00	23.00				WRP	
	7439.29	2236.68	5947.59	5202.61	4.99	OSF1.50	1140.00	1140.00	OSF<5.00			Enter Alert	
	7439.29	3606.55	5034.34	3832.74	3.09	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	7712.49	7725.56	2561.53	-13.06	1.50	OSF1.50	3810.00	3784.52		OSF<1.50		Enter Minor	
	7931.44	10579.91	877.63	-2648.47	1.12	OSF1.50	5210.00	5163.25				MinPts	
	9535.20	9536.58	3176.94	-1.39	1.50	OSF1.50	9400.00	9289.58		OSF>1.50		Exit Minor	
	10300.69	7480.43	5313.24	2820.26	2.07	OSF1.50	13700.00	12445.00				MinPt-SF	
	9545.73	6837.54	4986.87	2708.19	2.09	OSF1.50	14850.00	12445.00				MinPt-ADP	
	8764.43	5883.35	4841.69	2881.07	2.23	OSF1.50	16210.00	12445.00				MinPt-EOU	
	7472.86	2366.83	5894.48	5106.04	4.74	OSF1.50	20790.00	12445.00				MinPt-CtCt	
	7703.95	3450.80	5402.92	4253.15	3.35	OSF1.50	22662.20	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 401H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	39.99	32.25	38.71	7.74	N/A	MAS = 9.83 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	39.99	32.25	38.71	7.74	18207.11	MAS = 9.83 (m)	23.00	23.00				WRP	
	39.99	32.25	28.40	7.74	3.75	MAS = 9.83 (m)	1090.00	1090.00				MinPt-EOU	
	39.99	32.25	21.68	7.74	2.25	MAS = 9.83 (m)	1790.00	1790.00				MinPts	
	40.44	32.25	21.18	8.19	2.16	MAS = 9.83 (m)	1890.00	1889.99				MinPt-EOU	
	41.59	32.25	21.60	9.34	2.14	MAS = 9.83 (m)	1970.00	1969.90				MinPt-SF	
	143.94	43.99	114.28	99.95	4.99	OSF1.50	2970.00	2957.28	OSF>5.00			Exit Alert	
	1315.65	175.87	1198.08	1139.78	11.28	OSF1.50	10230.00	10115.10				MinPt-SF	
	1319.78	179.90	1199.52	1139.88	11.06	OSF1.50	12760.00	12416.21				MinPt-CtCt	
	1319.80	349.40	1086.53	970.39	5.68	OSF1.50	21660.00	12445.00				MinPt-CtCt	
	1319.82	377.27	1067.98	942.55	5.26	OSF1.50	22660.00	12445.00				MinPts	
	1319.82	377.26	1067.99	942.56	5.26	OSF1.50	22662.20	12445.00				TD	
Coterra Triste Draw 36-25 Federal Com 502H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	40.30	32.49	39.01	7.80	N/A	MAS = 9.90 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	40.30	32.49	39.01	7.80	15727.66	MAS = 9.90 (m)	23.00	23.00				WRP	
	40.30	32.49	28.70	7.80	3.78	MAS = 9.90 (m)	1090.00	1090.00				MinPt-EOU	
	40.30	32.49	23.99	7.80	2.57	MAS = 9.90 (m)	1590.00	1590.00				MinPts	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	40.45	32.49	23.75	7.96	2.51	MAS = 9.90 (m)	1630.00	1630.00				MinPt-EOU	
	41.11	32.49	24.03	8.62	2.49	MAS = 9.90 (m)	1670.00	1670.00				MinPt-SF	
	195.44	59.36	155.54	136.08	5.00	OSF1.50	3880.00	3853.46	OSF>5.00			Exit Alert	
	438.14	132.34	349.59	305.81	4.99	OSF1.50	7760.00	7674.50	OSF<5.00			Enter Alert	
	435.03	137.92	342.75	297.11	4.75	OSF1.50	8060.00	7969.94				MinPt-CtCt	
	436.02	140.91	341.76	295.12	4.66	OSF1.50	8230.00	8137.35				MinPt-EOU	
	437.01	142.09	341.96	294.92	4.64	OSF1.50	8300.00	8206.29				MinPt-ADP	
	449.86	148.69	350.40	301.16	4.56	OSF1.50	8720.00	8619.91				MinPt-SF	
	527.48	171.78	412.63	355.69	4.62	OSF1.50	12010.00	11895.07				MinPt-CtCt	
	527.59	172.22	412.45	355.37	4.61	OSF1.50	12090.00	11974.17				MinPt-EOU	
	527.71	172.37	412.47	355.34	4.61	OSF1.50	12110.00	11993.64				MinPt-ADP	
	529.05	173.07	413.34	355.98	4.60	OSF1.50	12190.00	12069.55				MinPt-SF	
	581.40	175.74	463.91	405.65	4.98	OSF1.50	12520.00	12323.34	OSF>5.00			Exit Alert	
	861.83	259.46	688.53	602.37	5.00	OSF1.50	18740.00	12445.00	OSF<5.00			Enter Alert	
	861.81	358.07	622.77	503.74	3.62	OSF1.50	22300.00	12445.00				MinPt-CtCt	
	861.81	368.65	615.72	493.16	3.51	OSF1.50	22662.20	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 501H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	53.14	32.81	51.85	20.33	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	53.14	32.81	51.85	20.33	18292.70	MAS = 10.00 (m)	23.00	23.00				WRP	
	53.14	32.81	41.54	20.33	5.03	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	53.14	32.81	41.64	20.33	4.96	MAS = 10.00 (m)	1110.00	1110.00	OSF<5.00			Enter Alert	
	53.14	32.81	36.83	20.33	3.40	MAS = 10.00 (m)	1590.00	1590.00				MinPts	
	53.30	32.81	36.60	20.49	3.33	MAS = 10.00 (m)	1630.00	1630.00				MinPt-EOU	
	54.55	32.81	37.28	21.74	3.29	MAS = 10.00 (m)	1690.00	1690.00				MinPt-SF	
	121.08	37.09	96.02	83.99	4.99	OSF1.50	2570.00	2563.36	OSF>5.00			Exit Alert	
	542.07	163.54	432.71	378.53	4.99	OSF1.50	9720.00	9605.69	OSF<5.00			Enter Alert	
	532.58	173.86	416.35	358.72	4.61	OSF1.50	11967.42	11852.52				MinPt-CtCt	
	532.58	173.88	416.33	358.70	4.61	OSF1.50	11990.00	11875.10				MinPts	
	555.41	167.57	443.36	387.83	4.99	OSF1.50	12400.00	12245.16	OSF>5.00			Exit Alert	
	861.80	259.41	688.53	602.38	5.00	OSF1.50	18870.00	12445.00	OSF<5.00			Enter Alert	
	861.72	333.53	639.03	528.18	3.88	OSF1.50	21530.00	12445.00				MinPt-CtCt	
	861.76	366.64	617.00	495.11	3.53	OSF1.50	22660.00	12445.00				MinPts	
	861.76	366.63	617.01	495.13	3.53	OSF1.50	22662.20	12445.00				TD	
Coterra Triste Draw 36-25 Federal Com 302H 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	21426.90	MAS = 10.00 (m)	23.00	23.00				WRP	
	99.98	32.81	88.38	67.18	9.57	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	99.98	32.81	81.57	67.18	5.68	MAS = 10.00 (m)	1800.00	1800.00				MinPts	
	100.71	32.81	79.70	67.90	4.98	MAS = 10.00 (m)	2070.00	2069.60	OSF<5.00			Enter Alert	
	65.53	45.35	34.96	20.17	2.18	OSF1.50	3087.81	3073.30				MinPt-CtCt	
	65.92	46.45	34.62	19.47	2.14	OSF1.50	3160.00	3144.40				MinPt-EOU	
	66.32	46.92	34.71	19.40	2.13	OSF1.50	3190.00	3173.94				MinPt-ADP	
	67.27	47.72	35.13	19.55	2.13	OSF1.50	3240.00	3223.18				MinPt-SF	
	366.94	110.82	292.73	256.12	5.00	OSF1.50	6700.00	6630.60	OSF>5.00			Exit Alert	
	659.93	172.05	544.90	487.88	5.78	OSF1.50	10890.00	10775.10				MinPts	
	1279.59	249.28	1113.07	1030.31	7.72	OSF1.50	18930.00	12445.00				MinPt-CtCt	
	1279.59	359.82	1039.38	919.76	5.34	OSF1.50	22662.20	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 211H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	116.60	32.81	115.31	83.79	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	116.60	32.81	115.31	83.79	23246.35	MAS = 10.00 (m)	23.00	23.00				WRP	
	116.60	32.81	105.00	83.79	11.18	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	116.39	32.81	96.02	83.58	5.95	MAS = 10.00 (m)	2001.37	2001.21				MinPts	
	116.89	32.81	95.38	84.08	5.65	MAS = 10.00 (m)	2120.00	2119.33				MinPt-EOU	
	139.47	42.63	110.72	96.84	4.99	OSF1.50	2850.00	2839.11	OSF<5.00			Enter Alert	
	141.32	46.65	109.90	94.67	4.61	OSF1.50	3090.00	3075.46				MinPt-EOU	
	144.38	50.31	110.51	94.07	4.36	OSF1.50	3300.00	3282.27				MinPt-ADP	
	190.31	75.07	139.94	115.24	3.83	OSF1.50	4670.00	4631.45				MinPt-SF	
	399.58	171.93	284.63	227.65	3.50	OSF1.50	10240.00	10125.10				MinPt-CtCt	
	399.87	172.69	284.41	227.18	3.48	OSF1.50	10290.00	10175.10				MinPt-EOU	
	400.00	172.86	284.43	227.14	3.48	OSF1.50	10300.00	10185.10				MinPt-ADP	
	401.46	173.88	285.21	227.58	3.47	OSF1.50	10360.00	10245.10				MinPt-SF	
	542.04	165.09	431.65	376.95	4.95	OSF1.50	10940.00	10825.10	OSF>5.00			Exit Alert	
	1787.70	240.01	1627.36	1547.69	11.21	OSF1.50	18770.00	12445.00				MinPt-CtCt	
	1787.72	357.10	1549.33	1430.62	7.53	OSF1.50	22660.00	12445.00				MinPt-CtCt	
	1787.73	357.16	1549.29	1430.56	7.52	OSF1.50	22662.20	12445.00				MinPts	
30-025-40343 - Cimarex Triste Draw 36 State 4H Gyro+MWD 0ft to 15427ft MD (Offset) (DefinitiveSurvey)													Warning Alert
	3755.17	32.81	3753.12	3722.37	49087.53	MAS = 10.00 (m)	0.00	0.00				MinPts	
	3755.20	32.81	3753.04	3722.39	21492.77	MAS = 10.00 (m)	23.00	23.00				WRP	
	3755.39	32.81	3752.94	3722.58	8091.05	MAS = 10.00 (m)	80.00	80.00				MinPt-EOU	
	3752.50	32.81	3743.04	3719.69	501.32	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	3751.76	32.81	3741.07	3718.95	420.17	MAS = 10.00 (m)	1300.00	1300.00				MinPts	
	3753.68	32.81	3739.40	3720.88	299.64	MAS = 10.00 (m)	1810.00	1810.00				MinPt-EOU	
	809.09	244.42	645.61	564.68	4.99	OSF1.50	10660.00	10545.10	OSF<5.00			Enter Alert	
	688.38	278.51	501.00	409.88	3.75	OSF1.50	11085.16	10970.27				MinPts	
	688.40	278.58	500.93	409.82	3.75	OSF1.50	11090.00	10975.10				MinPt-ADP	
	688.54	278.69	500.92	409.85	3.75	OSF1.50	11100.00	10985.10				MinPt-EOU	
	803.71	252.62	631.01	551.10	4.95	OSF1.50	11500.00	11385.10	OSF>5.00			Exit Alert	
	1605.76	150.58	1499.84	1455.18	17.79	OSF1.50	13520.00	12445.00				MinPt-ADP	
	1605.06	149.91	1499.60	1455.15	17.87	OSF1.50	13570.00	12445.00				MinPt-ADP	
	1604.78	149.57	1499.55	1455.21	17.91	OSF1.50	13600.00	12445.00				MinPt-EOU	
	1603.54	147.39	1499.75	1456.15	18.20	OSF1.50	13730.00	12445.00				MinPt-EOU	
	1598.62	144.32	1496.89	1454.31	18.58	OSF1.50	13990.00	12445.00				MinPt-ADP	
	1593.75	140.81	1494.35	1452.94	19.05	OSF1.50	14300.00	12445.00				MinPt-ADP	
	1588.21	138.59	1490.27	1449.62	19.33	OSF1.50	14550.00	12445.00				MinPts	
	1583.96	137.37	1486.82	1446.59	19.48	OSF1.50	14740.00	12445.00				MinPt-SF	
	1582.68	137.19	1485.67	1445.49	19.49	OSF1.50	14880.00	12445.00				MinPts	
	1574.16	135.08	1478.48	1439.09	19.76	OSF1.50	15140.00	12445.00				MinPt-SF	
	1561.68	134.39	1466.41	1427.29	19.74	OSF1.50	15370.00	12445.00				MinPt-SF	
	1534.69	140.27	1435.49	1394.42	18.47	OSF1.50	16040.00	12445.00				MinPt-CtCt	
	1534.96	141.11	1435.21	1393.85	18.35	OSF1.50	16100.00	12445.00				MinPt-EOU	
	1535.53	141.83	1435.29	1393.69	18.25	OSF1.50	16160.00	12445.00				MinPt-ADP	
	1535.66	142.72	1434.82	1392.94	18.13	OSF1.50	16260.00	12445.00				MinPt-CtCt	
	1536.09	144.04	1434.38	1392.04	17.94	OSF1.50	16340.00	12445.00				MinPt-EOU	
	1536.50	144.54	1434.46	1391.96	17.87	OSF1.50	16370.00	12445.00				MinPt-ADP	
	1611.42	161.81	1498.20	1449.61	16.42	OSF1.50	17220.00	12445.00				MinPt-SF	
	5870.70	165.01	5758.98	5705.69	55.03	OSF1.50	22662.20	12445.00				TD	
30-025-40667 - Cimarex Triste Draw 36 State 5H Gyro+MWD 0ft to 13910ft MD (DefinitiveSurvey)													Warning Alert
	3763.86	32.81	3761.82	3731.05	63885.85	MAS = 10.00 (m)	0.00	0.00				Surface	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	3763.72	32.81	3761.60	3730.91	25905.32	MAS = 10.00 (m)	23.00	23.00				WRP	
	3755.52	32.81	3745.41	3722.71	461.48	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	3755.43	32.81	3745.16	3722.62	440.95	MAS = 10.00 (m)	1150.00	1150.00				MinPts	
	3755.44	32.81	3743.68	3722.63	375.36	MAS = 10.00 (m)	1380.00	1380.00				MinPts	
	3755.71	32.81	3743.41	3722.90	356.46	MAS = 10.00 (m)	1460.00	1460.00				MinPt-EOU	
	3755.76	32.81	3742.67	3722.96	331.20	MAS = 10.00 (m)	1580.00	1580.00				MinPts	
	3755.94	32.81	3741.29	3723.13	291.32	MAS = 10.00 (m)	1810.00	1810.00				MinPts	
	3756.00	32.81	3741.23	3723.19	288.42	MAS = 10.00 (m)	1830.00	1830.00				MinPt-EOU	
	739.15	223.22	589.80	515.93	4.99	OSF1.50	9527.36	9415.00	OSF<5.00			Enter Alert	
	694.73	245.17	529.54	449.56	4.31	OSF1.50	9817.09	9702.38				MinPt-CtCt	
	695.02	245.78	529.27	449.24	4.31	OSF1.50	9840.00	9725.24				MinPts	
	755.24	235.31	594.83	519.93	4.97	OSF1.50	10150.00	10035.10	OSF>5.00			Exit Alert	
	2697.86	131.82	2605.25	2566.04	34.22	OSF1.50	13470.00	12445.00				MinPts	
	2684.63	126.86	2595.34	2557.77	35.54	OSF1.50	14230.00	12445.00				MinPts	
	2684.64	126.87	2595.34	2557.77	35.54	OSF1.50	14240.00	12445.00				MinPt-ADP	
	2684.65	126.87	2595.35	2557.78	35.53	OSF1.50	14250.00	12445.00				MinPt-SF	
	2681.72	126.17	2592.89	2555.55	35.72	OSF1.50	14510.00	12445.00				MinPt-CtCt	
	2681.75	126.26	2592.87	2555.50	35.69	OSF1.50	14530.00	12445.00				MinPt-EOU	
	2681.79	126.30	2592.87	2555.49	35.68	OSF1.50	14540.00	12445.00				MinPts	
	2666.66	127.57	2576.88	2539.08	35.09	OSF1.50	15230.00	12445.00				MinPt-CtCt	
	2667.13	128.69	2576.61	2538.44	34.75	OSF1.50	15380.00	12445.00				MinPt-EOU	
	2667.38	129.10	2576.60	2538.29	34.63	OSF1.50	15420.00	12445.00				MinPt-EOU	
	2667.72	129.50	2576.67	2538.22	34.51	OSF1.50	15450.00	12445.00				MinPt-ADP	
	2675.04	132.01	2582.32	2543.03	33.86	OSF1.50	15720.00	12445.00				MinPt-SF	
	2674.55	132.47	2581.51	2542.08	33.74	OSF1.50	15830.00	12445.00				MinPt-CtCt	
	2674.82	133.35	2581.19	2541.47	33.49	OSF1.50	15890.00	12445.00				MinPt-EOU	
	2676.35	135.35	2581.40	2541.00	32.95	OSF1.50	16040.00	12445.00				MinPt-ADP	
	2677.57	136.31	2581.98	2541.25	32.70	OSF1.50	16100.00	12445.00				MinPt-SF	
	2675.34	138.39	2578.34	2536.95	32.14	OSF1.50	16320.00	12445.00				MinPt-SF	
	2671.29	141.79	2572.02	2529.49	31.24	OSF1.50	16540.00	12445.00				MinPt-CtCt	
	2671.65	142.94	2571.62	2528.71	30.96	OSF1.50	16590.00	12445.00				MinPt-EOU	
	2672.20	143.63	2571.72	2528.57	30.80	OSF1.50	16620.00	12445.00				MinPt-ADP	
	2882.34	166.94	2766.67	2715.40	27.98	OSF1.50	17750.00	12445.00				MinPt-SF	
	6333.04	187.10	6206.00	6145.94	52.66	OSF1.50	22662.20	12445.00				TD	
30-025-21081 - BRINNINSTOOL P UNIT 1 - INC Only to 17649ft - P&A (DefinitiveSurvey)													Warning Alert
	1210.89	32.81	1208.91	1178.08	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1210.89	32.81	1208.82	1178.08	13682.64	MAS = 10.00 (m)	23.00	23.00				WRP	
	1210.89	112.18	1135.52	1098.71	16.43	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	1214.19	122.04	1132.25	1092.15	15.12	OSF1.50	1940.00	1939.94				MinPt-EOU	
	1217.64	126.05	1133.02	1091.59	14.67	OSF1.50	2000.00	1999.84				MinPt-ADP	
	2530.33	761.09	2022.40	1769.24	4.99	OSF1.50	12020.00	11905.03	OSF<5.00			Enter Alert	
	1668.01	803.81	1131.64	864.20	3.12	OSF1.50	14200.00	12445.00				MinPts	
	1668.04	803.84	1131.64	864.20	3.12	OSF1.50	14210.00	12445.00				MinPts	
	2680.81	805.39	2143.38	1875.42	5.00	OSF1.50	16300.00	12445.00	OSF>5.00			Exit Alert	
	8623.75	806.06	8085.87	7817.68	16.08	OSF1.50	22662.20	12445.00				TD	
Coterra Triste Draw 36-25 Federal Com 301H Rev0 mdv 19Oct23 (DefinitivePlan)													Pass
	134.14	32.81	132.85	101.33	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	134.14	32.81	132.85	101.33	22055.97	MAS = 10.00 (m)	23.00	23.00				WRP	
	134.14	32.81	122.54	101.33	12.88	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	133.25	32.81	112.54	100.45	6.71	MAS = 10.00 (m)	2038.31	2038.03				MinPts	
	133.53	32.81	112.25	100.72	6.53	MAS = 10.00 (m)	2100.00	2099.45				MinPt-EOU	
	152.04	38.12	126.30	113.92	6.10	OSF1.50	2560.00	2553.51				MinPt-SF	
	959.60	175.44	842.32	784.17	8.24	OSF1.50	10870.00	10755.10				MinPts	
	955.76	178.53	836.41	777.23	8.07	OSF1.50	11170.00	11055.10				MinPt-CtCt	
	956.01	179.29	836.15	776.72	8.03	OSF1.50	11210.00	11095.10				MinPt-EOU	
	956.35	179.67	836.24	776.67	8.02	OSF1.50	11230.00	11115.10				MinPt-ADP	
	961.49	181.54	840.14	779.95	7.98	OSF1.50	11340.00	11225.10				MinPt-SF	
	1424.85	150.84	1323.96	1274.00	14.25	OSF1.50	13030.00	12445.00				MinPt-CtCt	
	1405.78	207.03	1267.43	1198.75	10.23	OSF1.50	16810.00	12445.00				MinPt-CtCt	
	1406.28	208.66	1266.85	1197.62	10.15	OSF1.50	16890.00	12445.00				MinPt-EOU	
	1407.13	209.70	1267.01	1197.44	10.11	OSF1.50	16940.00	12445.00				MinPt-ADP	
	1424.99	341.12	1197.25	1083.87	6.28	OSF1.50	21790.00	12445.00				MinPt-CtCt	
	1425.00	366.84	1180.11	1058.16	5.84	OSF1.50	22662.20	12445.00				MinPts	
30-025-40665 - Cimarex Triste Draw 36 State 2H MWD 0ft to 13691ft (DefinitiveSurvey)													Pass
	4040.69	32.81	4038.69	4007.88	185897.66	MAS = 10.00 (m)	0.00	0.00				Surface	
	4040.68	32.81	4038.63	4007.87	53519.55	MAS = 10.00 (m)	23.00	23.00				WRP	
	4040.52	32.81	4037.59	4007.71	4244.47	MAS = 10.00 (m)	190.00	190.00				MinPts	
	4038.96	32.81	4029.65	4006.15	550.27	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4036.42	32.81	4022.16	4003.61	322.64	MAS = 10.00 (m)	1820.00	1820.00				MinPts	
	4036.49	32.81	4022.09	4003.68	319.25	MAS = 10.00 (m)	1840.00	1840.00				MinPt-EOU	
	1008.27	155.43	902.50	852.84	10.09	OSF1.50	9900.00	9785.15				MinPt-SF	
	1008.21	155.55	902.30	852.66	10.09	OSF1.50	9912.06	9797.20				MinPt-CtCt	
	1008.24	155.63	902.24	852.61	10.09	OSF1.50	9920.00	9805.13				MinPt-ADP	
	1008.34	155.72	902.24	852.62	10.09	OSF1.50	9930.00	9815.12				MinPt-EOU	
	2647.95	137.75	2551.37	2510.20	31.99	OSF1.50	13240.00	12445.00				MinPt-CtCt	
	2647.96	137.81	2551.34	2510.15	31.97	OSF1.50	13250.00	12445.00				MinPt-EOU	
	2648.01	137.87	2551.36	2510.14	31.95	OSF1.50	13260.00	12445.00				MinPt-ADP	
	2650.15	138.44	2553.20	2511.71	31.78	OSF1.50	13350.00	12445.00				MinPt-SF	
	2726.24	129.83	2635.02	2596.41	35.12	OSF1.50	14940.00	12445.00				MinPt-SF	
	2726.28	128.15	2636.12	2598.13	35.69	OSF1.50	14960.00	12445.00				MinPt-SF	
	2637.82	147.65	2534.62	2490.17	29.51	OSF1.50	16830.00	12445.00				MinPt-CtCt	
	2638.13	148.58	2534.31	2489.54	29.31	OSF1.50	16870.00	12445.00				MinPt-EOU	
	2638.69	149.27	2534.42	2489.42	29.16	OSF1.50	16900.00	12445.00				MinPt-ADP	
	2796.52	167.77	2680.23	2628.76	27.04	OSF1.50	17810.00	12445.00				MinPt-SF	
	6161.80	186.19	6035.31	5975.61	51.55	OSF1.50	22662.20	12445.00				TD	
30-025-40578 - Cimarex Triste Draw 36 State 6H ST01 MWD 10466ft to 15038ft (DefinitiveSurvey)													Pass
	3941.05	32.81	3939.03	3908.24	95102.08	MAS = 10.00 (m)	0.00	0.00				Surface	
	3941.01	32.81	3938.93	3908.20	37983.35	MAS = 10.00 (m)	23.00	23.00				WRP	
	3940.60	32.81	3937.58	3907.79	3772.94	MAS = 10.00 (m)	190.00	190.00				MinPts	
	3943.65	32.81	3936.01	3910.84	695.91	MAS = 10.00 (m)	800.00	800.00				MinPt-EOU	
	3945.58	32.81	3935.70	3912.77	499.36	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	3947.36	32.81	3935.44	3914.55	388.51	MAS = 10.00 (m)	1380.00	1380.00				MinPt-EOU	
	1013.29	275.26	828.53	738.03	5.58	OSF1.50	11093.39	10978.50				MinPt-CtCt	
	1013.31	275.37	828.44	737.94	5.58	OSF1.50	11100.00	10985.10				MinPt-SF	
	1013.43	275.51	828.41	737.91	5.58	OSF1.50	11110.00	10995.10				MinPts	
	1759.73	167.72	1642.81	1592.00	17.17	OSF1.50	13330.00	12445.00				MinPt-ADP	
	1759.08	166.97	1642.67	1592.11	17.24	OSF1.50	13380.00	12445.00				MinPt-EOU	
	1758.80	166.21	1642.92	1592.58	17.32	OSF1.50	13440.00	12445.00				MinPt-CtCt	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	1743.93	149.11	1639.45	1594.83	19.37	OSF1.50	14620.00	12445.00				MinPts	
	1744.65	148.64	1640.50	1596.01	19.44	OSF1.50	14750.00	12445.00				MinPt-SF	
	1759.77	146.75	1656.90	1613.03	19.88	OSF1.50	15600.00	12445.00				MinPt-SF	
	1762.51	148.93	1658.15	1613.57	19.60	OSF1.50	16050.00	12445.00				MinPts	
	1757.94	150.53	1652.51	1607.41	19.32	OSF1.50	16220.00	12445.00				MinPt-CtCt	
	1758.10	151.06	1652.32	1607.04	19.24	OSF1.50	16250.00	12445.00				MinPt-EOU	
	1758.24	151.24	1652.35	1607.01	19.22	OSF1.50	16260.00	12445.00				MinPt-ADP	
	1800.44	157.62	1690.43	1642.82	18.75	OSF1.50	16670.00	12445.00				MinPt-SF	
	6244.91	167.08	6131.50	6077.82	58.12	OSF1.50	22662.20	12445.00				TD	
30-025-40688 - QUESO STATE 1H - Gyro+MWD to 15507ft - A (DefinitiveSurvey)													Pass
	1188.97	32.81	1186.99	1156.16	#########	MAS = 10.00 (m)	0.00	0.00				MinPts	
	1188.98	32.81	1186.99	1156.17	625683.95	MAS = 10.00 (m)	23.00	23.00				WRP	
	1188.51	32.81	1181.61	1155.70	241.09	MAS = 10.00 (m)	560.00	560.00				MinPts	
	1186.53	32.81	1174.35	1153.72	116.14	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	1067.92	65.65	1023.57	1002.27	25.03	OSF1.50	4266.90	4234.48				MinPt-CtCt	
	1068.13	66.28	1023.35	1001.84	24.79	OSF1.50	4310.00	4276.92				MinPt-EOU	
	1068.36	66.58	1023.39	1001.78	24.68	OSF1.50	4330.00	4296.62				MinPt-ADP	
	1073.07	70.79	1025.29	1002.28	23.28	OSF1.50	4580.00	4542.82				MinPt-EOU	
	1073.87	71.75	1025.45	1002.12	22.98	OSF1.50	4640.00	4601.91				MinPt-ADP	
	1080.68	81.26	1025.97	999.42	20.32	OSF1.50	5210.00	5163.25				MinPt-CtCt	
	1081.44	86.35	1023.34	995.09	19.11	OSF1.50	5520.00	5468.54				MinPt-EOU	
	1082.93	88.52	1023.38	994.41	18.66	OSF1.50	5650.00	5596.56				MinPt-EOU	
	1083.72	89.49	1023.53	994.24	18.47	OSF1.50	5710.00	5655.65				MinPt-ADP	
	1088.22	93.80	1025.15	994.42	17.68	OSF1.50	5970.00	5911.70				MinPt-ADP	
	1343.32	156.02	1238.76	1187.29	13.03	OSF1.50	10130.00	10015.10				MinPt-CtCt	
	1343.67	157.02	1238.45	1186.64	12.95	OSF1.50	10280.00	10165.10				MinPt-EOU	
	1344.11	157.57	1238.52	1186.53	12.91	OSF1.50	10360.00	10245.10				MinPt-ADP	
	1344.37	157.72	1238.68	1186.65	12.90	OSF1.50	10400.00	10285.10				MinPt-SF	
	1345.22	157.79	1239.49	1187.44	12.91	OSF1.50	10530.00	10415.10				MinPt-SF	
	2033.26	136.11	1942.01	1897.14	22.64	OSF1.50	13030.00	12445.00				MinPt-ADP	
	2067.94	150.63	1967.02	1917.30	20.78	OSF1.50	14000.00	12445.00				MinPt-EOU	
	2068.71	151.58	1967.15	1917.13	20.66	OSF1.50	14050.00	12445.00				MinPt-ADP	
	2069.86	168.33	1957.14	1901.53	18.60	OSF1.50	14740.00	12445.00				MinPt-CtCt	
	2068.41	175.58	1950.85	1892.83	17.81	OSF1.50	15010.00	12445.00				MinPt-CtCt	
	2062.00	191.68	1933.72	1870.32	16.25	OSF1.50	15560.00	12445.00				MinPt-CtCt	
	2064.10	199.24	1930.77	1864.86	15.65	OSF1.50	15820.00	12445.00				MinPt-EOU	
	2066.31	201.83	1931.25	1864.47	15.46	OSF1.50	15910.00	12445.00				MinPt-ADP	
	2076.42	211.84	1934.70	1864.59	14.80	OSF1.50	16210.00	12445.00				MinPt-EOU	
	2080.16	218.59	1933.94	1861.57	14.36	OSF1.50	16410.00	12445.00				MinPt-EOU	
	2081.37	220.08	1934.15	1861.28	14.27	OSF1.50	16460.00	12445.00				MinPt-ADP	
	2093.38	247.43	1927.93	1845.95	12.76	OSF1.50	17210.00	12445.00				MinPts	
	2104.74	250.26	1937.40	1854.48	12.68	OSF1.50	17390.00	12445.00				MinPt-SF	
	5879.82	208.59	5740.26	5671.22	42.58	OSF1.50	22662.20	12445.00				TD	
30-025-40184 - Cimarex Triste Draw 36 State 1H Gyro+MWD 0ft to 13942ft MD (Offset) (DefinitiveSurvey)													Pass
	4258.43	32.81	4256.37	4225.63	49875.86	MAS = 10.00 (m)	0.00	0.00				Surface	
	4258.42	32.81	4256.35	4225.62	44506.79	MAS = 10.00 (m)	23.00	23.00				WRP	
	4254.35	32.81	4244.46	4221.54	538.17	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4254.26	32.81	4243.95	4221.47	496.43	MAS = 10.00 (m)	1180.00	1180.00				MinPts	
	4254.84	32.81	4242.82	4222.03	414.77	MAS = 10.00 (m)	1440.00	1440.00				MinPt-EOU	
	4255.68	32.81	4242.33	4222.87	366.99	MAS = 10.00 (m)	1650.00	1650.00				MinPts	
	4256.06	32.81	4241.44	4223.25	330.78	MAS = 10.00 (m)	1840.00	1840.00				MinPt-EOU	
	1295.37	277.16	1109.54	1018.21	7.07	OSF1.50	9700.00	9585.82				MinPt-SF	
	1295.34	277.20	1109.44	1018.13	7.08	OSF1.50	9708.57	9594.33				MinPt-CtCt	
	1295.34	277.21	1109.43	1018.13	7.08	OSF1.50	9710.00	9595.75				MinPt-ADP	
	1295.40	277.25	1109.43	1018.15	7.08	OSF1.50	9720.00	9605.69				MinPt-EOU	
	3177.24	156.03	3069.00	3021.21	33.11	OSF1.50	13150.00	12445.00				MinPt-ADP	
	3177.18	155.97	3068.99	3021.22	33.12	OSF1.50	13160.00	12445.00				MinPt-EOU	
	3177.12	155.78	3069.07	3021.35	33.16	OSF1.50	13190.00	12445.00				MinPt-CtCt	
	3179.03	151.84	3073.58	3027.19	34.12	OSF1.50	13390.00	12445.00				MinPt-EOU	
	3178.89	151.46	3073.71	3027.43	34.21	OSF1.50	13440.00	12445.00				MinPt-CtCt	
	3179.01	149.86	3074.90	3029.15	34.61	OSF1.50	13550.00	12445.00				MinPt-CtCt	
	3178.26	147.21	3075.91	3031.05	35.28	OSF1.50	13740.00	12445.00				MinPt-CtCt	
	3178.26	147.22	3075.91	3031.04	35.28	OSF1.50	13750.00	12445.00				MinPts	
	3181.17	147.43	3078.74	3033.74	35.21	OSF1.50	13900.00	12445.00				MinPt-SF	
	3195.35	137.78	3099.28	3057.56	38.14	OSF1.50	14770.00	12445.00				MinPts	
	3187.30	137.25	3091.59	3050.05	38.21	OSF1.50	15070.00	12445.00				MinPt-CtCt	
	3187.36	137.44	3091.53	3049.92	38.15	OSF1.50	15090.00	12445.00				MinPt-EOU	
	3187.52	137.65	3091.56	3049.88	38.08	OSF1.50	15110.00	12445.00				MinPt-ADP	
	3188.83	138.36	3092.41	3050.47	37.87	OSF1.50	15180.00	12445.00				MinPt-SF	
	3188.62	137.23	3092.92	3051.40	38.24	OSF1.50	15290.00	12445.00				MinPt-CtCt	
	3188.72	137.50	3092.84	3051.22	38.15	OSF1.50	15330.00	12445.00				MinPt-EOU	
	3188.84	137.64	3092.87	3051.20	38.11	OSF1.50	15350.00	12445.00				MinPt-ADP	
	3189.36	137.98	3093.17	3051.38	38.01	OSF1.50	15400.00	12445.00				MinPt-SF	
	3201.58	141.99	3102.75	3059.60	36.95	OSF1.50	16000.00	12445.00				MinPt-SF	
	3201.95	141.64	3103.32	3060.30	37.07	OSF1.50	16040.00	12445.00				MinPt-EOU	
	3202.27	142.04	3103.38	3060.23	36.96	OSF1.50	16070.00	12445.00				MinPt-ADP	
	3204.14	143.20	3104.48	3060.93	36.65	OSF1.50	16170.00	12445.00				MinPt-SF	
	3203.64	143.93	3103.48	3059.71	36.45	OSF1.50	16290.00	12445.00				MinPt-CtCt	
	3204.32	145.83	3102.89	3058.49	35.94	OSF1.50	16440.00	12445.00				MinPts	
	3202.52	148.65	3099.21	3053.87	35.18	OSF1.50	16660.00	12445.00				MinPt-CtCt	
	3203.02	150.15	3098.70	3052.86	34.80	OSF1.50	16750.00	12445.00				MinPt-EOU	
	3203.88	151.19	3098.87	3052.68	34.54	OSF1.50	16810.00	12445.00				MinPt-ADP	
	3398.89	171.65	3280.54	3227.24	31.77	OSF1.50	17980.00	12445.00				MinPt-SF	
	6537.55	190.25	6408.53	6347.30	53.33	OSF1.50	22662.20	12445.00				TD	
30-025-47637 - WILD SALSA FED COM 323H - MWD to 23192ft - A (DefinitiveSurvey)													Pass
	8864.58	32.81	8862.54	8831.77	167666.30	MAS = 10.00 (m)	0.00	0.00				MinPts	
	8864.65	32.81	8862.57	8831.85	85069.49	MAS = 10.00 (m)	23.00	23.00				WRP	
	8867.51	32.81	8854.69	8834.70	818.23	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	8863.16	32.81	8843.52	8830.35	495.76	MAS = 10.00 (m)	1820.00	1820.00				MinPts	
	8863.37	32.81	8843.32	8830.56	484.52	MAS = 10.00 (m)	1860.00	1860.00				MinPt-EOU	
	8927.24	40.58	8899.61	8886.67	344.90	OSF1.50	2490.00	2484.58				MinPt-ADP	
	9678.75	124.28	9595.36	9554.47	118.33	OSF1.50	7790.00	7704.04				MinPt-ADP	
	9803.56	139.34	9710.13	9664.22	106.75	OSF1.50	8710.00	8610.06				MinPt-ADP	
	9927.86	153.75	9824.82	9774.11	97.87	OSF1.50	9640.00	9526.28				MinPt-ADP	
	9937.14	156.95	9831.97	9780.19	95.94	OSF1.50	9760.00	9645.49				MinPts	
	9927.86	168.63	9814.90	9759.23	89.15	OSF1.50	11010.00	10895.10				MinPt-CtCt	
	9927.87	168.67	9814.88	9759.19	89.13	OSF1.50	11030.00	10915.10				MinPt-EOU	
	9927.89	168.70	9814.88	9759.19	89.11	OSF1.50	11040.00	10925.10				MinPt-ADP	
	9945.62	175.26	9828.24	9770.35	85.90	OSF1.50	11910.00	11795.10				MinPts	
	1390.75	294.40	1193.98	1096.35	7.11	OSF1.50	22662.20	12445.00				MinPts	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
30-025-40578 - Cimarex Triste Draw 36 State 6H Gyro+MWD 0ft to 11368ft MD (DefinitiveSurvey)													Pass
	3941.05	32.81	3939.03	3908.24	95102.08	MAS = 10.00 (m)	0.00	0.00				Surface	
	3941.01	32.81	3938.93	3908.20	37983.35	MAS = 10.00 (m)	23.00	23.00				WRP	
	3940.60	32.81	3937.58	3907.79	3772.94	MAS = 10.00 (m)	190.00	190.00				MinPts	
	3943.65	32.81	3936.01	3910.84	695.91	MAS = 10.00 (m)	800.00	800.00				MinPt-EOU	
	3945.58	32.81	3935.70	3912.77	499.36	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	3947.36	32.81	3935.44	3914.55	388.51	MAS = 10.00 (m)	1380.00	1380.00				MinPt-EOU	
	4607.42	119.61	4527.06	4487.80	58.66	OSF1.50	10040.00	9925.10				MinPt-ADP	
	4600.77	123.24	4518.07	4477.52	56.72	OSF1.50	11380.00	11265.10				MinPt-SF	
	4600.47	123.34	4517.67	4477.14	56.72	OSF1.50	11430.00	11315.10				MinPt-CtCt	
	4600.50	123.40	4517.64	4477.10	56.73	OSF1.50	11450.00	11335.10				MinPts	
	1490.59	161.81	1377.74	1328.77	15.07	OSF1.50	16792.14	12445.00				MinPt-CtCt	
	1490.69	162.16	1377.62	1328.54	15.03	OSF1.50	16810.00	12445.00				MinPt-EOU	
	1490.85	162.35	1377.65	1328.50	15.02	OSF1.50	16820.00	12445.00				MinPt-ADP	
	1506.42	165.44	1391.21	1340.98	14.85	OSF1.50	17010.00	12445.00				MinPt-SF	
	6056.35	155.05	5951.38	5901.29	60.41	OSF1.50	22662.20	12445.00				TD	
30-025-41150 - TRISTE DRAW 25 FEDERAL COM 3H - MWD to 15359ft - A (DefinitiveSurvey)													Pass
	4481.96	32.81	4479.98	4449.15	1099298.84	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4482.04	32.81	4480.00	4449.23	83602.38	MAS = 10.00 (m)	23.00	23.00				WRP	
	4491.57	32.81	4482.98	4458.77	678.89	MAS = 10.00 (m)	740.00	740.00				MinPt-EOU	
	4493.49	32.81	4481.23	4460.68	437.12	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4493.29	32.81	4478.67	4460.48	349.34	MAS = 10.00 (m)	1350.00	1350.00				MinPts	
	4493.37	32.81	4475.68	4460.56	281.95	MAS = 10.00 (m)	1660.00	1660.00				MinPts	
	4493.17	32.81	4473.96	4460.36	257.38	MAS = 10.00 (m)	1810.00	1810.00				MinPts	
	4493.33	32.81	4473.84	4460.52	253.32	MAS = 10.00 (m)	1840.00	1840.00				MinPt-EOU	
	5539.04	153.76	5435.99	5385.28	54.59	OSF1.50	10110.00	9995.10				MinPt-CtCt	
	5540.58	158.66	5434.26	5381.92	52.90	OSF1.50	10540.00	10425.10				MinPt-CtCt	
	5540.58	158.67	5434.26	5381.91	52.90	OSF1.50	10550.00	10435.10				MinPts	
	5541.79	158.80	5435.39	5382.99	52.87	OSF1.50	10680.00	10565.10				MinPt-SF	
	1510.28	183.88	1387.19	1326.40	12.41	OSF1.50	18680.00	12445.00				MinPt-CtCt	
	1509.87	190.82	1382.16	1319.05	11.95	OSF1.50	19000.00	12445.00				MinPt-CtCt	
	1510.57	200.40	1376.47	1310.17	11.38	OSF1.50	19410.00	12445.00				MinPt-CtCt	
	1509.53	208.42	1370.08	1301.11	10.93	OSF1.50	19740.00	12445.00				MinPt-CtCt	
	1502.30	240.55	1341.43	1261.75	9.42	OSF1.50	20980.00	12445.00				MinPt-CtCt	
	1500.89	282.32	1312.17	1218.56	8.01	OSF1.50	22438.86	12445.00				MinPt-CtCt	
	1501.21	283.32	1311.83	1217.89	7.98	OSF1.50	22470.00	12445.00				MinPt-EOU	
	1501.45	283.63	1311.87	1217.82	7.97	OSF1.50	22480.00	12445.00				MinPt-ADP	
	1509.51	286.67	1317.90	1222.84	7.93	OSF1.50	22600.00	12445.00				MinPt-SF	
	1517.41	287.79	1325.05	1229.62	7.94	OSF1.50	22662.20	12445.00				TD	
Cimarex Triste Draw 25 Fed Com #19H Rev0 RM 31Jul19 (DefinitivePlan)													Pass
	4682.25	32.81	4680.27	4649.44	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4682.25	32.81	4680.22	4649.44	93617.33	MAS = 10.00 (m)	23.00	23.00				WRP	
	4682.25	32.81	4671.61	4649.44	540.44	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4682.25	32.81	4665.89	4649.44	320.61	MAS = 10.00 (m)	1800.00	1800.00				MinPts	
	4682.43	32.81	4665.75	4649.62	313.67	MAS = 10.00 (m)	1840.00	1840.00				MinPt-EOU	
	5713.82	130.22	5626.47	5583.60	66.63	OSF1.50	10690.00	10575.10				MinPts	
	5713.82	130.22	5626.47	5583.60	66.63	OSF1.50	10700.00	10585.10				MinPt-SF	
	1706.73	189.97	1575.34	1516.76	14.45	OSF1.50	18400.00	12445.00				MinPt-CtCt	
	1706.85	298.07	1503.38	1408.77	8.95	OSF1.50	22662.20	12445.00				MinPts	
30-025-47632 - WILD SALSA FED COM 224H - MWD to 22026ft - A (DefinitiveSurvey)													Pass
	8779.36	32.81	8777.30	8746.56	106303.76	MAS = 10.00 (m)	0.00	0.00				MinPts	
	8779.41	32.81	8777.29	8746.60	60616.29	MAS = 10.00 (m)	23.00	23.00				WRP	
	8781.11	32.81	8773.49	8748.30	1555.72	MAS = 10.00 (m)	620.00	620.00				MinPts	
	8780.39	32.81	8768.07	8747.58	848.89	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	8780.20	32.81	8764.95	8747.39	650.71	MAS = 10.00 (m)	1410.00	1410.00				MinPts	
	8781.12	32.81	8763.95	8748.31	569.98	MAS = 10.00 (m)	1640.00	1640.00				MinPt-EOU	
	8819.09	35.27	8794.98	8783.81	394.66	OSF1.50	2190.00	2188.80				MinPts	
	8992.08	51.71	8957.02	8940.37	269.97	OSF1.50	3310.00	3292.12				MinPts	
	9021.48	56.06	8983.52	8965.42	249.16	OSF1.50	3500.00	3479.23				MinPt-ADP	
	9986.22	162.07	9877.64	9824.15	93.34	OSF1.50	10560.00	10445.10				MinPt-CtCt	
	9986.22	162.08	9877.63	9824.14	93.34	OSF1.50	10570.00	10455.10				MinPt-EOU	
	9986.23	162.08	9877.63	9824.14	93.33	OSF1.50	10580.00	10465.10				MinPt-ADP	
	9992.92	162.44	9884.09	9830.48	93.19	OSF1.50	10970.00	10855.10				MinPt-SF	
	1879.93	273.64	1697.00	1606.29	10.35	OSF1.50	22662.20	12445.00				MinPts	
30-025-47640 - WILD SALSA FED COM 404H - MWD to 23199ft - A (DefinitiveSurvey)													Pass
	8868.87	32.81	8866.88	8836.06	823453.04	MAS = 10.00 (m)	0.00	0.00				MinPts	
	8868.99	32.81	8866.96	8836.19	171665.61	MAS = 10.00 (m)	23.00	23.00				WRP	
	8895.39	32.81	8881.52	8862.58	734.63	MAS = 10.00 (m)	1310.00	1310.00				MinPt-EOU	
	8902.99	32.81	8884.53	8870.19	532.84	MAS = 10.00 (m)	1770.00	1770.00				MinPt-EOU	
	8905.58	32.81	8884.48	8872.77	460.56	MAS = 10.00 (m)	1900.00	1899.98				MinPt-EOU	
	9200.86	59.10	9160.87	9141.76	240.64	OSF1.50	3850.00	3823.91				MinPt-ADP	
	10231.36	153.13	10128.74	10078.23	101.27	OSF1.50	10060.00	9945.10				MinPt-ADP	
	10227.17	165.62	10116.21	10061.55	93.52	OSF1.50	11190.00	11075.10				MinPt-CtCt	
	10227.22	165.77	10116.17	10061.45	93.44	OSF1.50	11230.00	11115.10				MinPt-EOU	
	10227.28	165.84	10116.18	10061.44	93.40	OSF1.50	11250.00	11135.10				MinPt-ADP	
	1976.92	295.66	1779.31	1681.26	10.07	OSF1.50	22605.89	12445.00				MinPt-CtCt	
	1977.34	296.97	1778.86	1680.37	10.03	OSF1.50	22662.20	12445.00				MinPts	
MR 35 26 Federal Com 603H R0 mdv 31May23 (DefinitivePlan)													Pass
	4246.87	32.81	4245.59	4214.07	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4246.83	32.81	4245.54	4214.02	661903.27	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	4246.81	32.81	4245.52	4214.00	1201865.26	MAS = 10.00 (m)	20.00	20.00				MinPt-EOU	
	4246.81	32.81	4245.52	4214.00	4964222.28	MAS = 10.00 (m)	23.00	23.00				WRP	
	2029.47	185.49	1905.48	1843.97	16.49	OSF1.50	12605.87	12366.81				MinPt-CtCt	
	2032.58	554.56	1662.55	1478.02	5.50	OSF1.50	22662.20	12445.00				MinPts	
Coterra Gin Slinger 23-14 Federal Com 32H Rev0 kFc 19Dec22 (DefinitivePlan)													Pass
	10459.98	32.81	10457.95	10427.17	215439.90	MAS = 10.00 (m)	0.00	0.00				Surface	
	10459.98	32.81	10457.87	10427.17	80423.07	MAS = 10.00 (m)	23.00	23.00				WRP	
	10289.72	77.55	10237.44	10212.17	203.62	OSF1.50	3970.00	3942.09				MinPt-CtCt	
	10292.76	92.08	10230.79	10200.68	170.91	OSF1.50	4790.00	4749.63				MinPts	
	10297.52	100.71	10229.84	10196.81	155.85	OSF1.50	5280.00	5232.18				MinPt-EOU	
	10298.13	101.60	10229.86	10196.53	154.47	OSF1.50	5330.00	5281.42				MinPt-ADP	
	10744.43	167.89	10631.97	10576.54	96.91	OSF1.50	11630.00	11515.10				MinPts	
	10745.35	167.92	10632.86	10577.43	96.90	OSF1.50	11770.00	11655.10				MinPt-SF	
	10745.93	167.93	10633.44	10578.00	96.90	OSF1.50	11810.00	11695.10				MinPt-SF	
	2079.39	282.83	1890.34	1796.56	11.08	OSF1.50	22662.20	12445.00				MinPts	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
Cimarex Triste Draw 25 Federal #3H Pilot Gyro+MWD 0ft to 10322.56ft MD (DefinitiveSurvey)													Pass
	4481.96	32.81	4479.98	4449.16	1095762.17	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4482.04	32.81	4480.02	4449.23	114748.47	MAS = 10.00 (m)	23.00	23.00				WRP	
	4490.92	32.81	4484.45	4458.12	997.95	MAS = 10.00 (m)	670.00	670.00				MinPt-EOU	
	4493.45	32.81	4483.83	4460.64	587.91	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4493.21	32.81	4481.84	4460.40	467.16	MAS = 10.00 (m)	1360.00	1360.00				MinPts	
	4493.27	32.81	4479.80	4460.47	383.33	MAS = 10.00 (m)	1660.00	1660.00				MinPts	
	4493.07	32.81	4478.56	4460.26	352.37	MAS = 10.00 (m)	1810.00	1810.00				MinPts	
	4493.14	32.81	4478.50	4460.33	348.73	MAS = 10.00 (m)	1830.00	1830.00				MinPt-EOU	
	5539.01	114.44	5462.15	5424.57	73.67	OSF1.50	10110.00	9995.10				MinPt-CtCt	
	5539.40	115.45	5461.84	5423.95	73.08	OSF1.50	10220.00	10105.10				MinPt-EOU	
	5540.79	117.88	5461.62	5422.91	71.55	OSF1.50	10430.00	10315.10				MinPts	
	2179.11	166.83	2062.69	2012.28	21.46	OSF1.50	17826.25	12445.00				MinPt-CtCt	
	2179.55	168.10	2062.29	2011.46	21.29	OSF1.50	17870.00	12445.00				MinPt-EOU	
	2180.05	168.67	2062.40	2011.38	21.21	OSF1.50	17890.00	12445.00				MinPt-ADP	
	2258.56	181.05	2132.83	2077.51	20.28	OSF1.50	18420.00	12445.00				MinPt-SF	
	5304.24	179.80	5181.97	5124.45	46.04	OSF1.50	22662.20	12445.00				TD	
30-025-43998 - Cimarex Triste Draw 25 Federal 12H MWD 0ft to 14078ft (DefinitiveSurvey)													Pass
	4633.21	32.81	4631.17	4600.41	76027.48	MAS = 10.00 (m)	0.00	0.00				Surface	
	4633.17	32.81	4631.04	4600.36	29399.69	MAS = 10.00 (m)	23.00	23.00				WRP	
	4622.01	32.81	4609.64	4589.20	444.69	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4619.51	32.81	4604.53	4586.70	349.39	MAS = 10.00 (m)	1400.00	1400.00				MinPts	
	4621.68	32.81	4603.59	4588.87	282.94	MAS = 10.00 (m)	1740.00	1740.00				MinPt-EOU	
	5131.07	84.12	5074.45	5046.95	93.26	OSF1.50	5470.00	5419.29				MinPts	
	5820.91	152.67	5718.59	5668.24	57.79	OSF1.50	10350.00	10235.10				MinPt-SF	
	2660.74	177.01	2542.23	2483.73	22.73	OSF1.50	18540.00	12445.00				MinPt-CtCt	
	2661.22	178.22	2541.91	2483.00	22.58	OSF1.50	18590.00	12445.00				MinPt-EOU	
	2661.80	178.91	2542.02	2482.88	22.49	OSF1.50	18620.00	12445.00				MinPt-ADP	
	2668.08	182.62	2545.84	2485.46	22.08	OSF1.50	18780.00	12445.00				MinPt-SF	
	2668.78	183.19	2546.15	2485.59	22.02	OSF1.50	18830.00	12445.00				MinPt-CtCt	
	2669.57	185.52	2545.39	2484.05	21.75	OSF1.50	18930.00	12445.00				MinPt-EOU	
	2670.57	186.69	2545.62	2483.89	21.62	OSF1.50	18980.00	12445.00				MinPt-SF	
	2666.90	194.72	2536.59	2472.19	20.69	OSF1.50	19340.00	12445.00				MinPt-CtCt	
	2666.72	203.09	2530.82	2463.62	19.83	OSF1.50	19690.00	12445.00				MinPt-CtCt	
	2667.52	205.60	2529.95	2461.92	19.59	OSF1.50	19790.00	12445.00				MinPt-EOU	
	2668.36	208.02	2529.18	2460.34	19.37	OSF1.50	19890.00	12445.00				MinPt-CtCt	
	2669.26	211.55	2527.73	2457.71	19.05	OSF1.50	20030.00	12445.00				MinPt-EOU	
	2670.33	212.82	2527.95	2457.52	18.94	OSF1.50	20080.00	12445.00				MinPt-ADP	
	2666.91	228.47	2514.09	2438.44	17.62	OSF1.50	20690.00	12445.00				MinPt-CtCt	
	2655.26	243.71	2492.29	2411.55	16.43	OSF1.50	21256.41	12445.00				MinPt-CtCt	
	2657.79	251.44	2489.66	2406.35	15.94	OSF1.50	21540.00	12445.00				MinPt-EOU	
	2659.13	253.04	2489.94	2406.10	15.85	OSF1.50	21600.00	12445.00				MinPt-ADP	
	2657.99	266.87	2479.58	2391.12	15.02	OSF1.50	22090.00	12445.00				MinPt-CtCt	
	2658.75	269.32	2478.70	2389.43	14.88	OSF1.50	22180.00	12445.00				MinPt-EOU	
	2659.60	270.38	2478.84	2389.22	14.83	OSF1.50	22220.00	12445.00				MinPt-ADP	
	2665.68	277.83	2479.96	2387.85	14.46	OSF1.50	22480.00	12445.00				MinPt-EOU	
	2666.12	278.33	2480.07	2387.79	14.44	OSF1.50	22500.00	12445.00				MinPt-ADP	
	2675.22	282.03	2486.70	2393.19	14.30	OSF1.50	22662.20	12445.00				MinPt-SF	
30-025-42082 - Cimarex Triste Draw 25 Federal Com 10H MWD 0ft to 14126ft (DefinitiveSurvey)													Pass
	4750.64	32.81	4748.66	4717.83	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4750.63	32.81	4748.55	4717.82	48360.45	MAS = 10.00 (m)	23.00	23.00				WRP	
	4741.52	32.81	4729.04	4708.71	451.41	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4739.26	32.81	4722.66	4706.45	319.17	MAS = 10.00 (m)	1550.00	1550.00				MinPts	
	4739.79	32.81	4720.80	4706.98	274.92	MAS = 10.00 (m)	1810.00	1810.00				MinPt-EOU	
	5795.01	152.21	5693.00	5642.80	57.70	OSF1.50	10360.00	10245.10				MinPt-SF	
	2728.64	177.73	2609.65	2550.91	23.21	OSF1.50	18437.63	12445.00				MinPt-CtCt	
	2729.00	178.92	2609.22	2550.08	23.06	OSF1.50	18490.00	12445.00				MinPt-EOU	
	2729.53	179.59	2609.30	2549.94	22.98	OSF1.50	18520.00	12445.00				MinPt-ADP	
	2755.67	191.30	2627.64	2564.37	21.77	OSF1.50	19070.00	12445.00				MinPt-ADP	
	2739.97	212.41	2597.86	2527.56	19.48	OSF1.50	19980.00	12445.00				MinPt-CtCt	
	2740.63	214.38	2597.22	2526.26	19.30	OSF1.50	20060.00	12445.00				MinPt-EOU	
	2741.44	215.36	2597.37	2526.09	19.22	OSF1.50	20100.00	12445.00				MinPt-ADP	
	2751.34	223.63	2601.75	2527.71	18.57	OSF1.50	20430.00	12445.00				MinPt-EOU	
	2754.30	227.19	2602.34	2527.11	18.30	OSF1.50	20570.00	12445.00				MinPt-ADP	
	2752.83	237.91	2593.73	2514.93	17.46	OSF1.50	20980.00	12445.00				MinPt-CtCt	
	2754.27	242.04	2592.41	2512.23	17.17	OSF1.50	21140.00	12445.00				MinPt-EOU	
	2750.86	255.21	2580.22	2495.65	16.26	OSF1.50	21630.00	12445.00				MinPt-CtCt	
	2740.75	277.56	2555.21	2463.19	14.88	OSF1.50	22430.00	12445.00				MinPt-CtCt	
	2741.05	278.57	2554.84	2462.48	14.83	OSF1.50	22470.00	12445.00				MinPt-EOU	
	2741.66	279.30	2554.96	2462.36	14.80	OSF1.50	22500.00	12445.00				MinPt-ADP	
	2750.60	282.87	2561.52	2467.72	14.66	OSF1.50	22662.20	12445.00				MinPt-SF	
Cimarex Triste Draw 25 Federal #15H Rev0 RM 22Mar17 (NonDefinitivePlan)													Pass
	4633.03	32.81	4631.03	4600.22	196626.29	MAS = 10.00 (m)	0.00	0.00				Surface	
	4633.03	32.81	4630.98	4600.22	62030.91	MAS = 10.00 (m)	23.00	23.00				WRP	
	4633.03	32.81	4622.37	4600.22	533.55	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4633.03	32.81	4616.65	4600.22	316.82	MAS = 10.00 (m)	1800.00	1800.00				MinPts	
	4633.16	32.81	4616.54	4600.35	311.65	MAS = 10.00 (m)	1830.00	1830.00				MinPt-EOU	
	5860.83	130.49	5772.72	5730.34	69.10	OSF1.50	10360.00	10245.10				MinPt-SF	
	2736.61	199.39	2599.05	2537.23	22.02	OSF1.50	19360.00	12445.00				MinPt-CtCt	
	2736.62	282.31	2543.77	2454.31	15.22	OSF1.50	22430.00	12445.00				MinPt-CtCt	
	2737.00	283.61	2543.25	2453.39	15.15	OSF1.50	22480.00	12445.00				MinPt-EOU	
	2737.41	284.11	2543.31	2453.30	15.13	OSF1.50	22500.00	12445.00				MinPt-ADP	
	2746.11	287.76	2549.47	2458.35	14.99	OSF1.50	22662.20	12445.00				MinPt-SF	
30-025-31929 - TRISTE DRAW 36 STATE 001 - INC Only to 9150ft - P&G (DefinitiveSurvey)													Pass
	2818.86	32.81	2816.85	2786.06	72828.86	MAS = 10.00 (m)	0.00	0.00				Surface	
	2818.86	32.81	2816.44	2786.06	6358.07	MAS = 10.00 (m)	23.00	23.00				WRP	
	2818.86	103.98	2748.96	2714.88	41.34	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	2827.13	131.83	2738.66	2695.30	32.58	OSF1.50	2240.00	2238.27				MinPt-EOU	
	2867.50	178.42	2747.96	2689.08	24.33	OSF1.50	3090.00	3075.46				MinPt-ADP	
	2968.98	291.10	2774.32	2677.87	15.38	OSF1.50	4790.00	4749.63				MinPt-ADP	
	3063.56	403.44	2794.06	2660.12	11.43	OSF1.50	6090.00	6029.87				MinPt-ADP	
	3345.25	614.37	2935.13	2730.88	8.19	OSF1.50	9240.00	9132.01				MinPt-SF	
	3504.14	242.67	3341.86	3261.47	21.78	OSF1.50	15500.00	12445.00				MinPt-CtCt	
	3504.25	242.97	3341.76	3261.27	21.76	OSF1.50	15530.00	12445.00				MinPt-EOU	
	3504.45	243.23	3341.80	3261.23	21.74	OSF1.50	15550.00	12445.00				MinPt-ADP	
	4540.09	447.19	4241.46	4092.90	15.27	OSF1.50	18390.00	12445.00				MinPt-SF	
	7970.55	577.82	7584.83	7392.73	20.74	OSF1.50	22662.20	12445.00				TD	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
30-025-42102 - Cimarex Triste Draw 25 Federal Com 8H MWD 0ft to 14100ft (DefinitiveSurvey)													Pass
	4750.64	32.81	4748.66	4717.83	N/A	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4750.65	32.81	4748.61	4717.84	79321.63	MAS = 10.00 (m)	23.00	23.00				WRP	
	4750.78	32.81	4748.55	4717.97	19251.75	MAS = 10.00 (m)	70.00	70.00				MinPt-EOU	
	4751.13	32.81	4748.56	4718.32	8033.80	MAS = 10.00 (m)	130.00	130.00				MinPt-EOU	
	4751.88	32.81	4748.65	4719.07	3778.28	MAS = 10.00 (m)	210.00	210.00				MinPt-EOU	
	4752.48	32.81	4748.65	4719.67	2566.10	MAS = 10.00 (m)	270.00	270.00				MinPt-EOU	
	4757.20	32.81	4745.55	4724.39	491.49	MAS = 10.00 (m)	1030.00	1030.00				MinPts	
	4757.29	32.81	4745.12	4724.48	466.43	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4760.44	32.81	4741.37	4727.63	274.96	MAS = 10.00 (m)	1810.00	1810.00				MinPt-EOU	
	5872.81	153.84	5769.72	5718.98	57.85	OSF1.50	10340.00	10225.10				MinPt-SF	
	2940.30	185.08	2816.41	2755.22	24.01	OSF1.50	18490.00	12445.00				MinPt-CtCt	
	2940.71	186.15	2816.11	2754.56	23.88	OSF1.50	18540.00	12445.00				MinPt-EOU	
	2941.07	186.58	2816.18	2754.49	23.82	OSF1.50	18560.00	12445.00				MinPt-ADP	
	2926.77	206.78	2788.42	2720.00	21.38	OSF1.50	19490.00	12445.00				MinPt-CtCt	
	2911.95	238.28	2752.60	2673.67	18.44	OSF1.50	20760.00	12445.00				MinPt-CtCt	
	2913.00	241.52	2751.49	2671.48	18.20	OSF1.50	20890.00	12445.00				MinPt-EOU	
	2914.46	243.25	2751.79	2671.21	18.07	OSF1.50	20960.00	12445.00				MinPt-ADP	
	2902.46	259.92	2728.68	2642.54	16.84	OSF1.50	21580.00	12445.00				MinPt-CtCt	
	2889.10	283.49	2699.61	2605.61	15.36	OSF1.50	22428.62	12445.00				MinPt-CtCt	
	2889.40	284.46	2699.26	2604.94	15.31	OSF1.50	22470.00	12445.00				MinPt-EOU	
	2889.75	284.92	2699.31	2604.83	15.29	OSF1.50	22490.00	12445.00				MinPt-ADP	
	2898.53	288.51	2705.69	2610.02	15.14	OSF1.50	22662.20	12445.00				MinPt-SF	
30-025-44001 - Cimarex Triste Draw 25 Federal 13H MWD to 13778ft MD TD (Surcon Corr) (DefinitiveSurvey)													Pass
	4632.96	32.81	4630.88	4600.15	48254.99	MAS = 10.00 (m)	0.00	0.00				Surface	
	4632.85	32.81	4630.66	4600.04	21493.50	MAS = 10.00 (m)	23.00	23.00				WRP	
	4618.86	32.81	4603.39	4586.05	336.82	MAS = 10.00 (m)	1440.00	1440.00				MinPts	
	4619.22	32.81	4603.04	4586.41	320.30	MAS = 10.00 (m)	1530.00	1530.00				MinPt-EOU	
	5811.40	147.36	5712.62	5664.04	59.79	OSF1.50	10070.00	9955.10				MinPt-SF	
	2929.70	180.60	2808.80	2749.10	24.52	OSF1.50	18820.00	12445.00				MinPt-CtCt	
	2929.45	185.01	2805.61	2744.44	23.93	OSF1.50	19020.00	12445.00				MinPt-SF	
	2918.21	195.91	2787.11	2722.30	22.50	OSF1.50	19490.00	12445.00				MinPt-CtCt	
	2908.88	211.99	2767.05	2696.88	20.72	OSF1.50	20142.31	12445.00				MinPt-CtCt	
	2910.31	216.29	2765.62	2694.02	20.31	OSF1.50	20310.00	12445.00				MinPt-EOU	
	2911.78	218.08	2765.89	2693.70	20.16	OSF1.50	20380.00	12445.00				MinPt-ADP	
	2916.36	224.32	2766.32	2692.04	19.62	OSF1.50	20620.00	12445.00				MinPt-CtCt	
	2917.32	227.46	2765.18	2689.86	19.36	OSF1.50	20740.00	12445.00				MinPt-EOU	
	2918.38	228.76	2765.37	2689.62	19.25	OSF1.50	20790.00	12445.00				MinPt-ADP	
	2920.31	231.43	2765.52	2688.88	19.04	OSF1.50	20890.00	12445.00				MinPt-EOU	
	2921.84	233.27	2765.83	2688.58	18.90	OSF1.50	20960.00	12445.00				MinPt-ADP	
	2924.63	236.78	2766.27	2687.84	18.64	OSF1.50	21090.00	12445.00				MinPt-EOU	
	2925.95	238.36	2766.54	2687.58	18.52	OSF1.50	21150.00	12445.00				MinPt-ADP	
	2928.64	241.38	2767.22	2687.26	18.30	OSF1.50	21260.00	12445.00				MinPt-EOU	
	2929.95	242.97	2767.47	2686.98	18.19	OSF1.50	21320.00	12445.00				MinPt-ADP	
	2935.74	249.14	2769.15	2686.60	17.77	OSF1.50	21540.00	12445.00				MinPt-CtCt	
	2938.39	256.53	2766.87	2681.86	17.27	OSF1.50	21810.00	12445.00				MinPt-EOU	
	2949.67	275.46	2765.54	2674.22	16.14	OSF1.50	22480.00	12445.00				MinPt-EOU	
	2950.07	275.96	2765.60	2674.11	16.11	OSF1.50	22500.00	12445.00				MinPt-ADP	
	2958.29	279.71	2771.32	2678.58	15.94	OSF1.50	22662.20	12445.00				MinPt-SF	
30-025-42081 - Cimarex Triste Draw 25 Federal 7H MWD 0ft to 14577ft (DefinitiveSurvey)													Pass
	4721.33	32.81	4719.34	4688.52	449878.54	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4721.39	32.81	4719.36	4688.58	95127.68	MAS = 10.00 (m)	23.00	23.00				WRP	
	4723.31	32.81	4719.67	4690.50	2840.26	MAS = 10.00 (m)	280.00	280.00				MinPt-EOU	
	4724.93	32.81	4716.50	4692.12	731.56	MAS = 10.00 (m)	950.00	950.00				MinPts	
	4725.19	32.81	4715.77	4692.39	634.56	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4728.38	32.81	4714.27	4695.57	382.68	MAS = 10.00 (m)	1800.00	1800.00				MinPt-EOU	
	5650.89	117.50	5571.17	5533.38	74.72	OSF1.50	10360.00	10245.10				MinPt-SF	
	2970.39	177.67	2847.42	2792.72	27.03	OSF1.50	18240.00	12445.00				MinPt-CtCt	
	2971.17	180.00	2846.64	2791.17	26.66	OSF1.50	18340.00	12445.00				MinPt-EOU	
	2972.12	181.17	2846.81	2790.95	26.48	OSF1.50	18390.00	12445.00				MinPt-ADP	
	2986.25	195.04	2851.68	2791.21	24.58	OSF1.50	18990.00	12445.00				MinPt-ADP	
	2977.79	231.84	2818.67	2745.94	20.38	OSF1.50	20320.00	12445.00				MinPt-CtCt	
	2966.46	254.59	2792.17	2711.87	18.39	OSF1.50	21063.70	12445.00				MinPt-CtCt	
	2967.71	261.84	2788.59	2705.88	17.86	OSF1.50	21290.00	12445.00				MinPt-CtCt	
	2973.03	283.40	2779.51	2689.63	16.46	OSF1.50	21970.00	12445.00				MinPt-EOU	
	2973.84	288.46	2776.98	2685.38	16.16	OSF1.50	22100.00	12445.00				MinPt-CtCt	
	2974.41	310.63	2762.76	2663.78	14.96	OSF1.50	22440.00	12445.00				MinPt-CtCt	
	2974.61	311.21	2762.56	2663.40	14.93	OSF1.50	22470.00	12445.00				MinPt-EOU	
	2974.91	311.58	2762.60	2663.32	14.91	OSF1.50	22490.00	12445.00				MinPt-ADP	
	2983.05	314.36	2768.78	2668.69	14.83	OSF1.50	22662.20	12445.00				MinPt-SF	
30-025-43997 - Cimarex Triste Draw 25 Federal 11H MWD 0ft to 13774ft (DefinitiveSurvey)													Pass
	4750.64	32.81	4748.66	4717.83	5485418.84	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4750.66	32.81	4748.61	4717.85	71072.88	MAS = 10.00 (m)	23.00	23.00				WRP	
	4753.06	32.81	4742.83	4720.25	575.56	MAS = 10.00 (m)	910.00	910.00				MinPts	
	4753.03	32.81	4741.30	4720.22	487.39	MAS = 10.00 (m)	1060.00	1060.00				MinPts	
	4753.04	32.81	4741.03	4720.23	473.44	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4754.55	32.81	4738.74	4721.74	338.26	MAS = 10.00 (m)	1510.00	1510.00				MinPt-EOU	
	4755.88	32.81	4738.47	4723.07	303.84	MAS = 10.00 (m)	1670.00	1670.00				MinPt-EOU	
	5777.23	146.68	5678.91	5630.56	59.72	OSF1.50	10090.00	9975.10				MinPt-SF	
	2974.47	176.93	2856.02	2797.55	25.42	OSF1.50	18574.62	12445.00				MinPt-CtCt	
	2975.30	179.07	2855.42	2796.23	25.12	OSF1.50	18670.00	12445.00				MinPt-EOU	
	2976.42	180.40	2855.65	2796.02	24.94	OSF1.50	18730.00	12445.00				MinPt-ADP	
	2984.72	186.21	2860.08	2798.51	24.23	OSF1.50	19000.00	12445.00				MinPts	
	2981.91	190.99	2854.08	2790.92	23.59	OSF1.50	19220.00	12445.00				MinPt-CtCt	
	2980.98	198.11	2848.40	2782.87	22.73	OSF1.50	19530.00	12445.00				MinPt-CtCt	
	2982.20	201.72	2847.22	2780.48	22.33	OSF1.50	19680.00	12445.00				MinPt-EOU	
	2983.60	203.41	2847.50	2780.19	22.15	OSF1.50	19750.00	12445.00				MinPt-ADP	
	2983.04	210.95	2841.91	2772.09	21.35	OSF1.50	20060.00	12445.00				MinPt-CtCt	
	2984.02	213.95	2840.88	2770.07	21.06	OSF1.50	20180.00	12445.00				MinPt-EOU	
	2985.05	215.20	2841.08	2769.85	20.94	OSF1.50	20230.00	12445.00				MinPt-ADP	
	2993.68	229.33	2840.30	2764.35	19.70	OSF1.50	20780.00	12445.00				MinPt-CtCt	
	2994.45	231.64	2839.52	2762.81	19.51	OSF1.50	20870.00	12445.00				MinPt-EOU	
	2995.49	232.91	2839.72	2762.58	19.41	OSF1.50	20920.00	12445.00				MinPt-ADP	
	2995.83	237.00	2837.33	2758.83	19.07	OSF1.50	21070.00	12445.00				MinPt-CtCt	
	2997.02	240.67	2836.08	2756.36	18.79	OSF1.50	21210.00	12445.00				MinPt-EOU	
	2998.77	242.75	2836.44	2756.02	18.64	OSF1.50	21290.00	12445.00				MinPt-ADP	
	3005.70	248.50	2839.53	2757.19	18.24	OSF1.50	21500.00	12445.00				MinPt-EOU	
	3007.69	250.88	2839.94	2756.81	18.08	OSF1.50	21590.00	12445.00				MinPt-ADP	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	3009.80	254.81	2839.43	2755.00	17.81	OSF1.50	21730.00	12445.00				MinPt-EOU	
	3011.12	256.39	2839.69	2754.73	17.71	OSF1.50	21790.00	12445.00				MinPt-ADP	
	3017.54	266.21	2839.57	2751.33	17.09	OSF1.50	22140.00	12445.00				MinPt-EOU	
	3020.75	270.30	2840.05	2750.45	16.85	OSF1.50	22290.00	12445.00				MinPt-ADP	
	3038.87	279.93	2851.75	2758.94	16.36	OSF1.50	22662.20	12445.00				MinPt-SF	
30-025-47639 - WILD SALSA FED COM 093H - MWD to 20738ft - A (DefinitiveSurvey)													Pass
	8859.46	32.81	8857.45	8826.65	283315.19	MAS = 10.00 (m)	0.00	0.00				MinPts	
	8859.55	32.81	8857.50	8826.75	115963.96	MAS = 10.00 (m)	23.00	23.00				WRP	
	8852.08	32.81	8837.04	8819.27	666.44	MAS = 10.00 (m)	1390.00	1390.00				MinPts	
	8852.70	32.81	8836.41	8819.89	609.50	MAS = 10.00 (m)	1550.00	1550.00				MinPt-EOU	
	8885.66	39.79	8858.55	8845.87	350.43	OSF1.50	2180.00	2178.89				MinPts	
	9271.01	76.64	9219.33	9194.37	185.67	OSF1.50	4720.00	4680.69				MinPts	
	9431.82	92.33	9369.73	9339.49	155.94	OSF1.50	5680.00	5626.10				MinPts	
	9771.43	127.19	9686.10	9644.24	116.70	OSF1.50	7750.00	7664.65				MinPt-ADP	
	9803.64	132.41	9714.83	9671.23	112.42	OSF1.50	7960.00	7871.46				MinPt-ADP	
	10120.03	158.32	10013.95	9961.71	96.85	OSF1.50	10360.00	10245.10				MinPt-SF	
	2979.82	262.57	2804.27	2717.25	17.11	OSF1.50	22662.20	12445.00				MinPts	
Cimarex Triste Draw 25 Federal #14H Rev1 RM 09May19 (DefinitivePlan)													Pass
	4573.46	32.81	4571.46	4540.66	203705.97	MAS = 10.00 (m)	0.00	0.00				Surface	
	4573.46	32.81	4571.41	4540.66	62158.02	MAS = 10.00 (m)	23.00	23.00				WRP	
	4573.46	32.81	4562.80	4540.66	526.33	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4573.46	32.81	4557.08	4540.66	312.61	MAS = 10.00 (m)	1800.00	1800.00				MinPts	
	4573.60	32.81	4556.97	4540.79	307.52	MAS = 10.00 (m)	1830.00	1830.00				MinPt-EOU	
	5822.49	122.34	5739.63	5700.15	73.70	OSF1.50	10360.00	10245.10				MinPt-SF	
	3038.36	278.80	2848.04	2759.56	17.09	OSF1.50	22432.78	12445.00				MinPt-CtCt	
	3038.90	280.29	2847.55	2758.61	17.01	OSF1.50	22490.00	12445.00				MinPt-EOU	
	3039.34	280.79	2847.64	2758.55	16.98	OSF1.50	22510.00	12445.00				MinPt-ADP	
	3047.01	284.33	2852.86	2762.68	16.82	OSF1.50	22662.20	12445.00				MinPt-SF	
Cimarex Triste Draw 25 Federal #14H Rev0 RM 22Mar17 (NonDefinitivePlan)													Pass
	4633.00	32.81	4631.00	4600.20	198497.77	MAS = 10.00 (m)	0.00	0.00				Surface	
	4633.00	32.81	4630.95	4600.20	62215.72	MAS = 10.00 (m)	23.00	23.00				WRP	
	4633.00	32.81	4622.38	4600.20	533.57	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4633.00	32.81	4616.63	4600.20	316.82	MAS = 10.00 (m)	1800.00	1800.00				MinPts	
	4633.13	32.81	4616.51	4600.33	311.65	MAS = 10.00 (m)	1830.00	1830.00				MinPt-EOU	
	5926.70	128.45	5839.79	5798.25	71.29	OSF1.50	10360.00	10245.10				MinPt-SF	
	6468.25	124.35	6383.11	6343.91	82.41	OSF1.50	12400.00	12245.16				MinPt-SF	
	3060.26	279.32	2869.63	2780.95	17.18	OSF1.50	22433.43	12445.00				MinPt-CtCt	
	3060.78	280.73	2869.17	2780.05	17.10	OSF1.50	22490.00	12445.00				MinPt-EOU	
	3061.22	281.22	2869.27	2780.00	17.07	OSF1.50	22510.00	12445.00				MinPt-ADP	
	3068.80	284.63	2874.49	2784.17	16.91	OSF1.50	22662.20	12445.00				MinPt-SF	
30-025-42198 - Cimarex Triste Draw 25 Federal Com 9H MWD 0ft to 13793ft (DefinitiveSurvey)													Pass
	4750.64	32.81	4748.66	4717.83	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4750.62	32.81	4748.53	4717.81	42392.48	MAS = 10.00 (m)	23.00	23.00				WRP	
	4747.99	32.81	4741.26	4715.18	998.94	MAS = 10.00 (m)	540.00	540.00				MinPts	
	4749.37	32.81	4737.25	4716.57	467.80	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4749.37	32.81	4737.37	4716.57	463.40	MAS = 10.00 (m)	1100.00	1100.00				MinPts	
	4752.18	32.81	4733.09	4719.38	273.97	MAS = 10.00 (m)	1810.00	1810.00				MinPts	
	4752.57	32.81	4732.71	4719.77	262.40	MAS = 10.00 (m)	1880.00	1879.99				MinPt-EOU	
	5834.38	148.45	5734.88	5685.93	59.58	OSF1.50	10050.00	9935.10				MinPt-SF	
	3135.30	178.02	3016.12	2957.28	26.63	OSF1.50	18410.00	12445.00				MinPt-CtCt	
	3135.83	179.54	3015.64	2956.29	26.41	OSF1.50	18480.00	12445.00				MinPt-EOU	
	3136.57	180.40	3015.81	2956.17	26.29	OSF1.50	18520.00	12445.00				MinPt-ADP	
	3104.01	212.73	2961.69	2891.28	22.03	OSF1.50	19950.24	12445.00				MinPt-CtCt	
	3105.44	216.14	2960.85	2889.30	21.69	OSF1.50	20090.00	12445.00				MinPt-EOU	
	3108.08	219.34	2961.36	2888.75	21.39	OSF1.50	20220.00	12445.00				MinPt-ADP	
	3113.19	228.46	2960.38	2884.73	20.57	OSF1.50	20580.00	12445.00				MinPt-EOU	
	3115.77	235.70	2958.13	2880.06	19.95	OSF1.50	20860.00	12445.00				MinPt-EOU	
	3118.20	238.52	2958.69	2879.68	19.72	OSF1.50	20970.00	12445.00				MinPt-ADP	
	3124.34	246.89	2959.25	2877.45	19.09	OSF1.50	21280.00	12445.00				MinPt-EOU	
	3125.84	248.69	2959.54	2877.15	18.96	OSF1.50	21350.00	12445.00				MinPt-ADP	
	3131.58	261.02	2957.06	2870.56	18.09	OSF1.50	21800.00	12445.00				MinPt-EOU	
	3132.89	262.56	2957.35	2870.33	17.99	OSF1.50	21860.00	12445.00				MinPt-ADP	
	3137.62	267.79	2958.59	2869.83	17.67	OSF1.50	22050.00	12445.00				MinPt-ADP	
	3150.48	279.90	2963.38	2870.58	16.97	OSF1.50	22480.00	12445.00				MinPt-EOU	
	3150.87	280.37	2963.46	2870.50	16.94	OSF1.50	22500.00	12445.00				MinPt-ADP	
	3158.71	283.91	2968.93	2874.80	16.77	OSF1.50	22662.20	12445.00				MinPt-SF	
30-025-47635 - WILD SALSA FED COM 094H - MWD to 20459ft - A (DefinitiveSurvey)													Pass
	8782.67	32.81	8780.62	8749.86	127914.84	MAS = 10.00 (m)	0.00	0.00				MinPts	
	8782.69	32.81	8780.62	8749.89	94232.48	MAS = 10.00 (m)	10.00	10.00				MinPt-EOU	
	8782.73	32.81	8780.62	8749.92	69972.93	MAS = 10.00 (m)	23.00	23.00				WRP	
	8783.31	32.81	8780.64	8750.51	12692.96	MAS = 10.00 (m)	140.00	140.00				MinPt-EOU	
	8786.82	32.81	8781.41	8754.01	2562.58	MAS = 10.00 (m)	440.00	440.00				MinPt-EOU	
	8791.30	32.81	8779.24	8758.49	871.90	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	8793.02	32.81	8777.81	8760.21	654.00	MAS = 10.00 (m)	1440.00	1440.00				MinPt-EOU	
	9771.98	108.68	9698.99	9663.31	136.89	OSF1.50	7070.00	6994.98				MinPts	
	10251.59	147.06	10153.01	10104.53	105.71	OSF1.50	10360.00	10245.10				MinPt-SF	
	3476.27	267.08	3297.72	3209.19	19.63	OSF1.50	22662.20	12445.00				MinPts	
30-025-08135 - TRISTE-STATE 1 - INC Only to 5192ft - P&A (DefinitiveSurvey)													Pass
	4279.54	32.81	4277.43	4246.73	34029.58	MAS = 10.00 (m)	0.00	0.00				Surface	
	4279.54	32.81	4277.03	4246.73	8113.01	MAS = 10.00 (m)	23.00	23.00				WRP	
	4279.54	108.19	4206.82	4171.35	60.29	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	4287.14	130.87	4199.31	4156.27	49.79	OSF1.50	2110.00	2109.40				MinPt-EOU	
	4297.84	143.72	4201.44	4154.12	45.39	OSF1.50	2280.00	2277.76				MinPt-ADP	
	4299.41	145.26	4201.98	4154.15	44.92	OSF1.50	2300.06	2297.52				MinPt-ADP	
	4407.06	253.03	4237.78	4154.02	26.30	OSF1.50	3590.00	3567.86				MinPt-ADP	
	4469.09	316.23	4257.69	4152.86	21.31	OSF1.50	4290.00	4257.23				MinPt-ADP	
	4555.22	417.21	4276.54	4138.01	16.44	OSF1.50	5220.00	5173.09				MinPt-ADP	
	4556.17	417.47	4277.32	4138.70	16.43	OSF1.50	5230.00	5182.94				MinPt-SF	
	7387.29	165.72	7276.31	7221.57	67.46	OSF1.50	17150.00	12445.00				MinPt-CtCt	
	7387.91	167.56	7275.71	7220.35	66.72	OSF1.50	17250.00	12445.00				MinPt-EOU	
	7388.74	168.56	7275.87	7220.18	66.33	OSF1.50	17300.00	12445.00				MinPt-ADP	
	9215.07	343.81	8985.36	8871.26	40.37	OSF1.50	22662.20	12445.00				MinPt-SF	
Estacodo Fields #002 (Offset) Plugged SWD Blind 0ft-5206ft (DefinitiveSurvey)													Pass
	5472.24	32.81	5469.52	5439.43	7459.19	MAS = 10.00 (m)	0.00	0.00				Surface	
	5472.24	32.81	5467.12	5439.43	1740.48	MAS = 10.00 (m)	23.00	23.00				WRP	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	5472.24	541.12	5110.90	4931.12	15.21	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	5796.17	1604.94	4725.67	4191.23	5.42	OSF1.50	5230.00	5182.94				MinPts	
	5797.25	1605.91	4726.10	4191.34	5.42	OSF1.50	5240.00	5192.79				MinPt-SF	
	7376.38	334.19	7151.90	7042.19	33.60	OSF1.50	18470.00	12445.00				MinPt-CtCt	
	7378.27	338.00	7151.24	7040.26	33.22	OSF1.50	18640.00	12445.00				MinPt-EOU	
	7412.09	376.22	7159.59	7035.87	29.94	OSF1.50	19200.00	12445.00				MinPt-ADP	
	8482.78	867.58	7902.86	7615.20	14.74	OSF1.50	22662.20	12445.00				MinPt-SF	
H L Johnston L SR Pre-Ongard Well #001 (Offset) Plugged Oil Blind 0ft-5151ft (DefinitiveSurvey)													Pass
	8369.85	32.81	8365.10	8337.04	3014.06	MAS = 10.00 (m)	0.00	0.00				Surface	
	8369.85	32.81	8362.69	8337.04	1613.59	MAS = 10.00 (m)	23.00	23.00				WRP	
	8369.85	547.24	8004.44	7822.61	23.01	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	8818.70	1588.54	7759.14	7230.17	8.33	OSF1.50	5160.00	5114.01				MinPts	
	10344.59	1126.86	9592.01	9217.74	13.81	OSF1.50	14510.00	12445.00				MinPt-SF	
	7363.79	278.66	7176.34	7085.13	40.34	OSF1.50	21775.33	12445.00				MinPt-CtCt	
	7374.36	299.13	7173.27	7075.24	37.59	OSF1.50	22170.00	12445.00				MinPt-EOU	
	7417.01	352.10	7180.60	7064.91	32.03	OSF1.50	22662.20	12445.00				MinPts	

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

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory

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

At surface

At proposed prod. zone

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

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

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

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

25. Signature	Name *(Printed/Typed)*	Date

Title

Approved by *(Signature)*	Name *(Printed/Typed)*	Date

Title	Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 06/14/2024

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

Approval Date: 06/14/2024

Additional Operator Remarks

Location of Well

0. SHL: SESW / 1207 FSL / 2405 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.257262 / LONG: -103.629089 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 100 FSL / 1650 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.25421 / LONG: -103.631529 (TVD: 11852 feet, MD: 11967 feet)

PPP: NESW / 1320 FNL / 1650 FWL / TWSP: 23S / RANGE: 32E / SECTION: 25 / LAT: 32.279349 / LONG: -103.631545 (TVD: 12445 feet, MD: 21442 feet)

PPP: NENW / 0 FNL / 1650 FWL / TWSP: 23S / RANGE: 32E / SECTION: 36 / LAT: 32.268436 / LONG: -103.631538 (TVD: 12455 feet, MD: 17467 feet)

BHL: NENW / 100 FNL / 1650 FWL / TWSP: 23S / RANGE: 32E / SECTION: 25 / LAT: 32.282702 / LONG: -103.631547 (TVD: 12445 feet, MD: 22662 feet)

BLM Point of Contact

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

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.

TRISTE DRAW 36-25 FEDERAL COM 402H

APD - Geology COAs (Not in Potash or WIPP)

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

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

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

Please be aware:

- Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

- H2S has been reported within one mile of the proposed project. Unrecorded measurements up to were recorded from an unreported formation, most likely the Delaware Group.

Questions? Contact Chris Armistead, BLM Geologist at 575-234-5715 or carmistead@blm.gov

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Cimerex Energy Company**
LEASE NO.:	**NMLC063228**
LOCATION:	Section 36, T.23 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	**Triste Draw 36-25 Federal Com 402H**
SURFACE HOLE FOOTAGE:	1207'/S & 2405'/W
BOTTOM HOLE FOOTAGE	100'/N & 1650'/W
ATS/API ID:	**ATS-24-431**
APD ID:	**10400095898**
Sundry ID:	**N/a**

COA

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

Approval Date: 06/14/2024

A. HYDROGEN SULFIDE

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

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately 1320 feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **14 3/4** inch in diameter.

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

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

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

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

    ❖ In Ochoa Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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

    - Cement should tie-back at least **500 feet** into 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 **10,000 (10M)** psi. **Annular which shall be tested to 5000 (5M) psi.**

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

Option 2:

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

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

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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

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

3. For at least one well per pad (deepest well preferred) the record of 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 within 30 days from completion. Only digital copies of the logs in .TIF or .LAS formats are necessary; Logs shall be emailed to blm-cfo-geology@doimspp.onmicrosoft.com. The email should have a subject line with the US Well Number / API Number, well name, and the body should include the starting depth and the TVD of the log.

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.

A. CASING

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

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

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

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

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

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

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

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

B. PRESSURE CONTROL

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

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

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

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

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

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

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after

installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

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

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

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Long Vo (LVO) 5/31/2024

Approval Date: 06/14/2024

H2S Drilling Operations Plan

Training

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

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

H2S Detection and Alarm Systems

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

Windsock and/or wind streamers

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

Condition Flags & Signs

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

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

Well Control Equipment

1. See the pressure control section of this submission.

Communication

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

Drillstem Testing

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

H2S Contingency Plan

Emergency Procedures

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

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

Ignition of the Gas Source

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

Contacting Authorities

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

Coterra: H2S Plan

Emergency Contacts

Coterra Energy

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

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

Third Party

PERMIAN REGION CONTACT NUMBERS

CALL 911

Air Ambulance Services

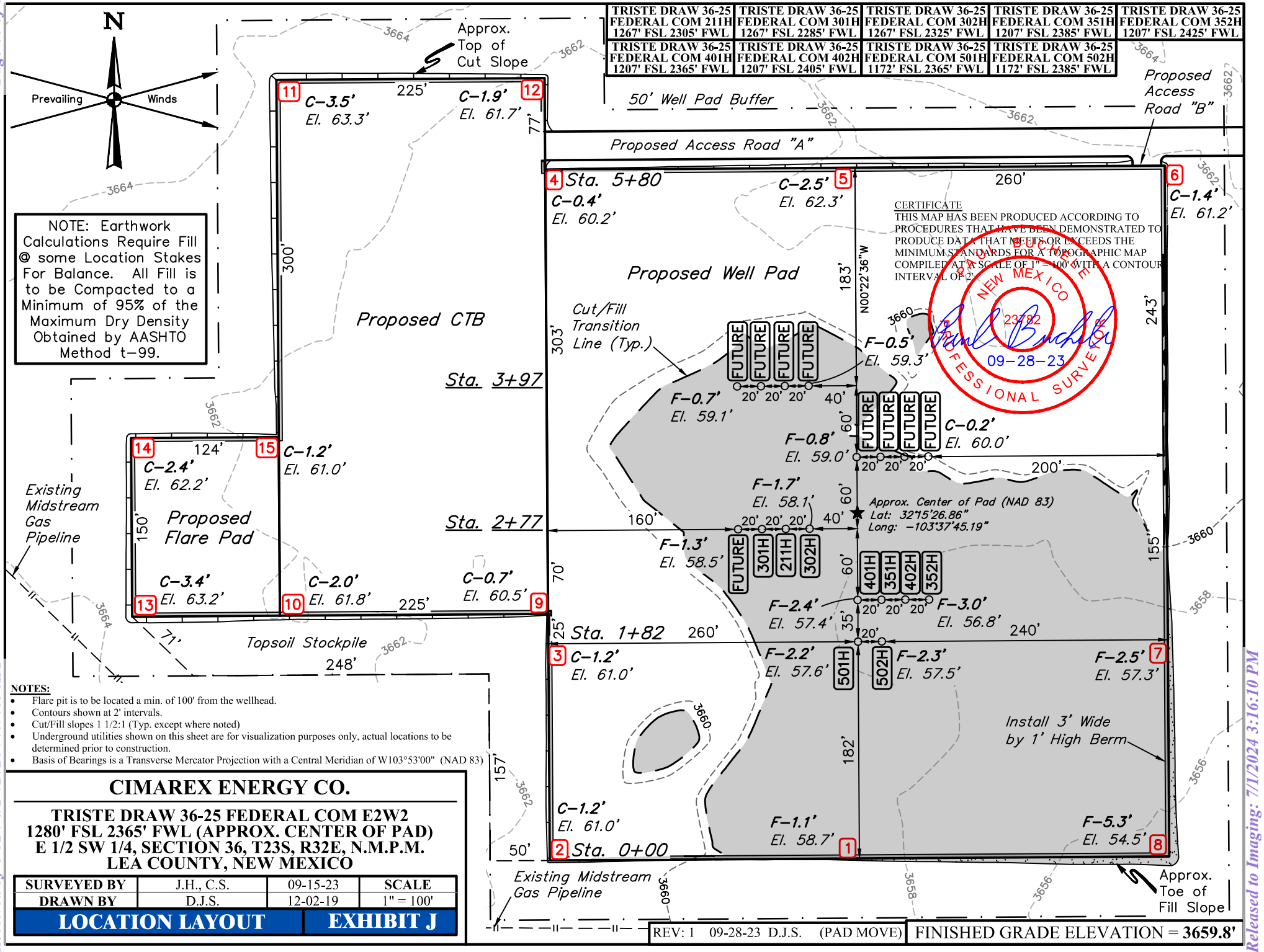
Reeves County Medical - Pecos, TX	432-447-3551
Aero Care - Midland, TX	800-627-2376
Tri State Care Flight - Artesia, NM	800-800-0900
Air Methods - Hobbs, NM	800-242-6199

Fire / Police / Medical Care

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

Ground Ambulance Services

Reeves County Medical		Pecos, TX	432-447-3551



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

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

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR
09-28-23

NOTES:

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

CIMAREX ENERGY CO.

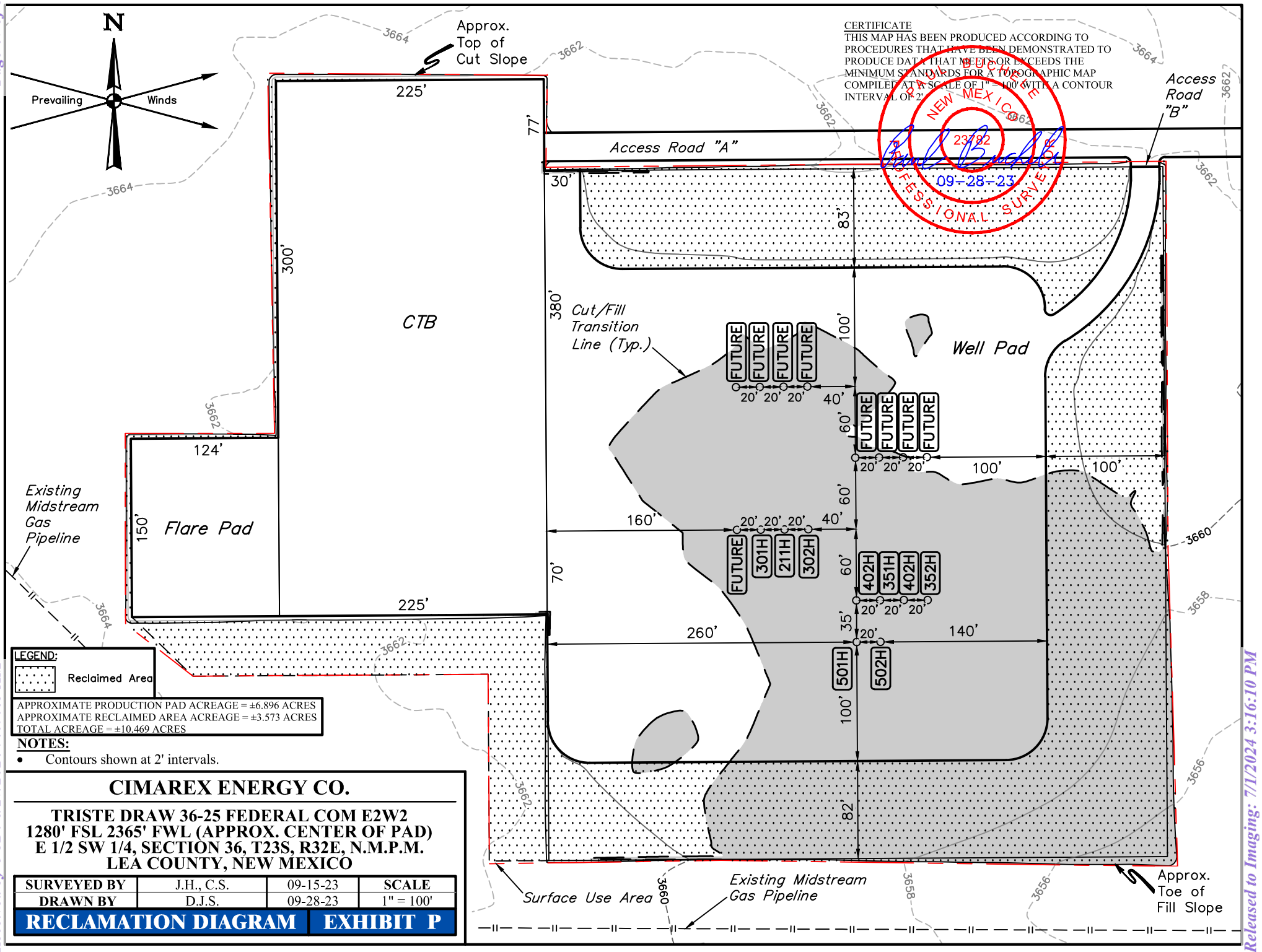
TRISTE DRAW 36-25 FEDERAL COM E2W2
1280' FSL 2365' FWL (APPROX. CENTER OF PAD)
E 1/2 SW 1/4, SECTION 36, T23S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

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

LOCATION LAYOUT **EXHIBIT J**

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

FINISHED GRADE ELEVATION = **3659.8'**



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

NEW MEXICO
23782
PROFESSIONAL SURVEYOR
09-28-23

LEGEND:
Reclaimed Area

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

NOTES:

- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

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

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

RECLAMATION DIAGRAM **EXHIBIT P**

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

[1] API Number	[2] Pool Code	[3] Pool Name
	98177	WC-025 G-09 S223332A; UPR Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
	TRISTE DRAW 36-25 FEDERAL COM	402H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3656.8'

[10] 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	2405	WEST	LEA

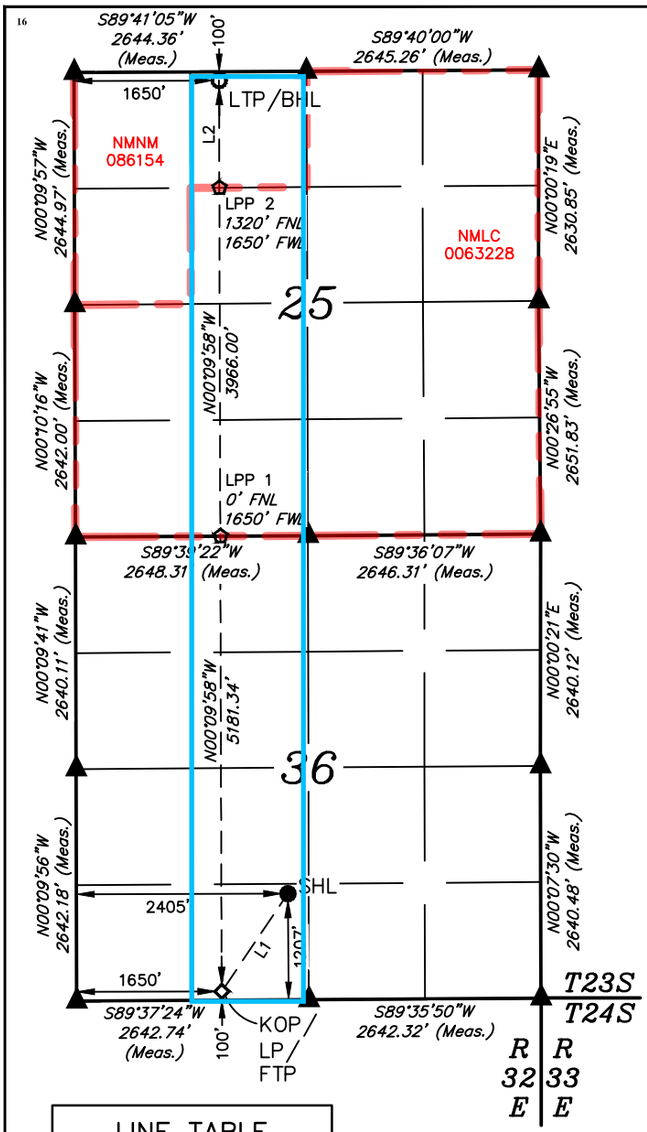
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	25	23S	32E		100	NORTH	1650	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320			

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

[16]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S34°03'34"W	1342.43'
L2	N00°09'58"W	1220.14'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°15'26.14" (32.257262°)
LONGITUDE = -103°37'44.72" (-103.629089°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°15'25.70" (32.257138°)
LONGITUDE = -103°37'42.99" (-103.628608°)
STATE PLANE NAD 83 (N.M. EAST)
N: 458039.06' E: 759035.49'
STATE PLANE NAD 27 (N.M. EAST)
N: 457979.92' E: 717851.77'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°15'15.16" (32.254210°)
LONGITUDE = -103°37'53.50" (-103.631529°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°15'14.71" (32.254086°)
LONGITUDE = -103°37'51.77" (-103.631048°)
STATE PLANE NAD 83 (N.M. EAST)
N: 456923.97' E: 758288.46'
STATE PLANE NAD 27 (N.M. EAST)
N: 456864.86' E: 717104.71'

NAD 83 (LPP 1)
LATITUDE = 32°16'06.42" (32.268450°)
LONGITUDE = -103°37'53.54" (-103.631538°)
NAD 27 (LPP 1)
LATITUDE = 32°16'05.97" (32.268326°)
LONGITUDE = -103°37'51.80" (-103.631056°)
STATE PLANE NAD 83 (N.M. EAST)
N: 462104.27' E: 758251.74'
STATE PLANE NAD 27 (N.M. EAST)
N: 462045.01' E: 717068.12'

NAD 83 (LPP 2)
LATITUDE = 32°16'45.66" (32.279349°)
LONGITUDE = -103°37'53.56" (-103.631545°)
NAD 27 (LPP 2)
LATITUDE = 32°16'45.21" (32.279226°)
LONGITUDE = -103°37'51.83" (-103.631063°)
STATE PLANE NAD 83 (N.M. EAST)
N: 466069.48' E: 758223.62'
STATE PLANE NAD 27 (N.M. EAST)
N: 466010.11' E: 717040.10'

NAD 83 (LTP/BHL)
LATITUDE = 32°16'57.73" (32.282702°)
LONGITUDE = -103°37'53.57" (-103.631547°)
NAD 27 (LTP/BHL)
LATITUDE = 32°16'57.28" (32.282579°)
LONGITUDE = -103°37'51.83" (-103.631065°)
STATE PLANE NAD 83 (N.M. EAST)
N: 467289.38' E: 758214.97'
STATE PLANE NAD 27 (N.M. EAST)
N: 467229.97' E: 717031.48'

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

2000' 1000' 0' 2000'
SCALE
DRAWN BY: D.J.S. 09-28-23

[17] 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

[18] 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:

PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
09-28-23

Certificate Number:

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

Drilling Plan Data Report
06/14/2024

APD ID: 10400095898
Submission Date: 11/20/2023
Operator Name: CIMAREX ENERGY COMPANY
Well Name: TRISTE DRAW 36-25 FEDERAL COM
Well Number: 402H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13602771	RUSTLER	0	1238	1238	ANHYDRITE	USEABLE WATER	N
13602772	TOP SALT	-1731	1731	1731	HALITE	NONE	N
13602770	LAMAR	-5036	5036	5036	SANDSTONE	NONE	N
13602773	BASE OF SALT	-5036	5036	5080	LIMESTONE	NONE	N
13602774	BELL CANYON	-5087	5087	5132	SANDSTONE	NATURAL GAS, OIL	Y
13602775	CHERRY CANYON	-5940	5940	5998	SANDSTONE	NATURAL GAS	Y
13602776	BRUSHY CANYON	-7318	7318	7398	SANDSTONE	NATURAL GAS, OIL	Y
13602777	BONE SPRING LIME	-8850	8850	8953	LIMESTONE	NONE	N
13602778	AVALON SAND	-9033	9033	9139	SHALE	NATURAL GAS, OIL	Y
13602779	BONE SPRING 1ST	-10050	10050	10164	SANDSTONE	NATURAL GAS, OIL	Y
13602780	BONE SPRING 2ND	-10592	10592	10706	SANDSTONE	NATURAL GAS, OIL	Y
13602781	BONE SPRING 3RD	-11115	11115	11229	OTHER : Carbonate	NATURAL GAS, OIL	Y
13602782	BONE SPRING 3RD	-11942	11942	12057	SANDSTONE	NATURAL GAS, OIL	Y
13602784	WOLFCAMP	-12270	12270	12435	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COM **Well Number:** 402H

Pressure Rating (PSI): 10M **Rating Depth:** 12445

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

Variance request: See attached.

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

CHOKE_MANIFOLD_DIAGRAM_402H_20240424143206.pdf

CIMAREX_10K_PROD_TREE_402H_20240424143206.pdf

CHOKE_HOSE_M14856_402H_20240424143209.pdf

COTERRA_10M_MBU_3T_CFL_10.34_X_7.58_X_5.5_401H_20240424143226.pdf

BOP Diagram Attachment:

BOP_DIAGRAM_402H_20240424143233.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	J-55	40.5	BUTT	2.83	5.61	DRY	12.06	DRY	12.06
2	PRODUCTION	6.75	5.5	NEW	API	Y	0	11917	0	11917	3658	-8259	11917	L-80	23	LT&C	1.5	1.33	DRY	2.18	DRY	2.18
3	INTERMEDIATE	9.625	7.875	NEW	API	N	0	12717	0	12405	3658	-8747	12717	L-80	29.7	LT&C	1.85	1	DRY	1.54	DRY	1.54
4	PRODUCTION	6.75	5.0	NEW	API	Y	11917	22662	11917	12445	-8259	-8787	10745	P-110	18	BUTT	1.73	1.75	DRY	61.03	DRY	61.03

Casing Attachments

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COM **Well Number:** 402H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions_402H_20240514105501.pdf

Casing ID: 2 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Spec_Sheet_for_Tapered_Prod_5.5_23__P110RY_20240424144017.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:** 402H

Casing Attachments

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

5.0_in_18.00_Tapered_Prod_Spec_Sheet_20240424144126.pdf

Spec_Sheet_for_Tapered_Prod_5_18__P110RY_03262024_20240424144124.pdf

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0
PRODUCTION	Tail		12517	22552	1385	1.3	14.2	1800	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	11717	1006	3.64	10.3	3664	49	36:65 (Poz c)	Salt, Bentonite
INTERMEDIATE	Tail		11717	12717	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:** 402H

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	1320	OTHER : Fresh water	7.83	8.33							
1320	12717	OTHER : Brine water	11.5	12							
12717	22662	OIL-BASED MUD	11.5	12							

Section 6 - Test, Logging, Coring

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

NO DST/ Logs will be run on the 401H

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

DIRECTIONAL SURVEY,

Coring operation description for the well:

N/A

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COM **Well Number:** 402H

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 geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_PLAN_REV.0_20240424145234.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

402H_Directional_Plan_20231120082806.pdf
402H_Well_Plan_20231120082806.pdf
402H_AC_Summary_20231120082806.pdf
GEOPROG_Triste_Draw_36_25_Fed_Com_402H_WFMP_Z_JAB_20231120095827.pdf
WELL_CONTROL_PLAN_REV.0_20240424145745.pdf
402H_Drilling_Plan_updated_04242024_20240514110102.pdf
_5_14_2024_12_01_10_PM__Proposal_100____Coterra_Triste_Draw_36_25_Federal_Com_402H_Rev0_mdv_19Oct23_20240514110203.pdf

Other proposed operations facets description:

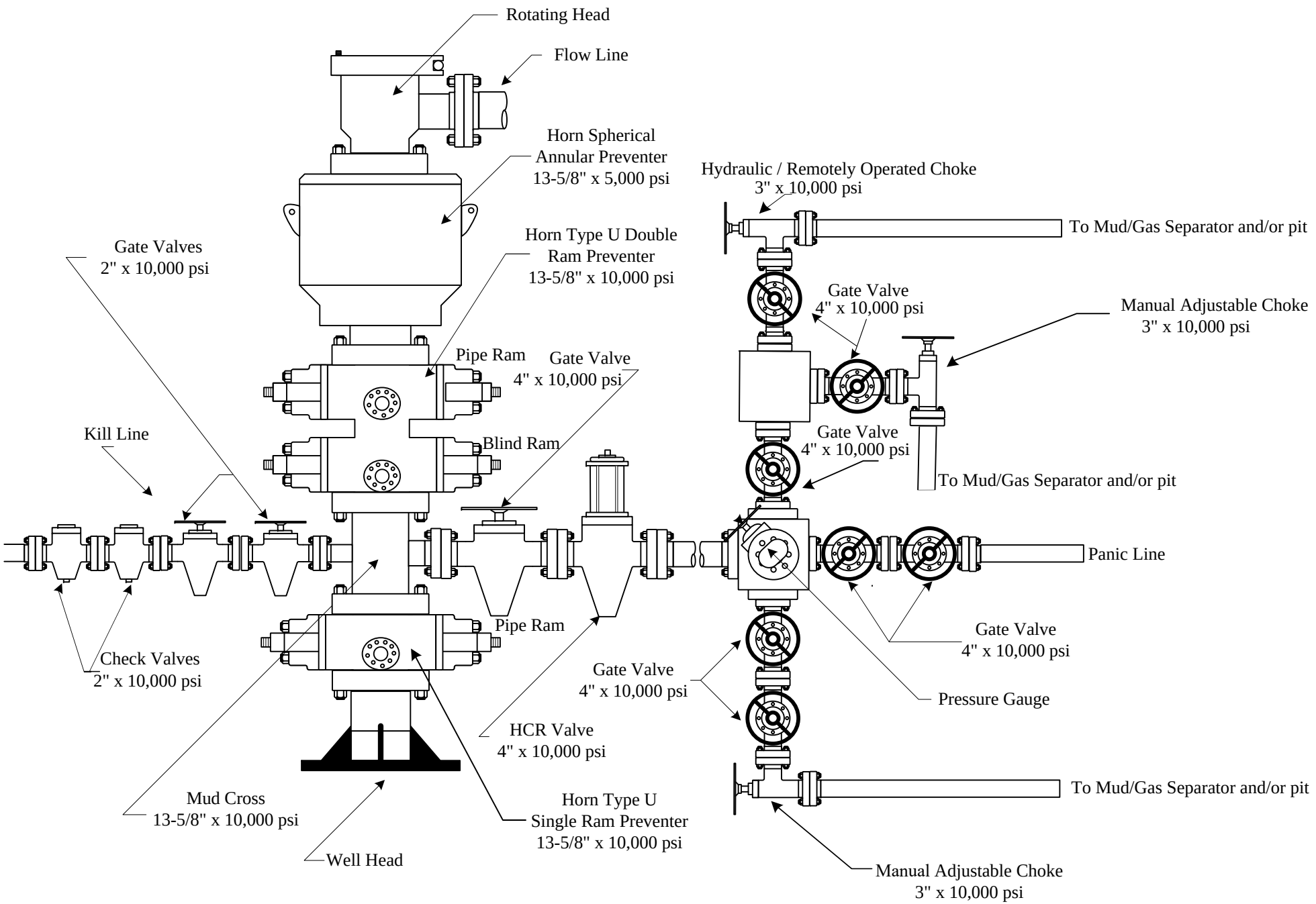
Other proposed operations facets attachment:

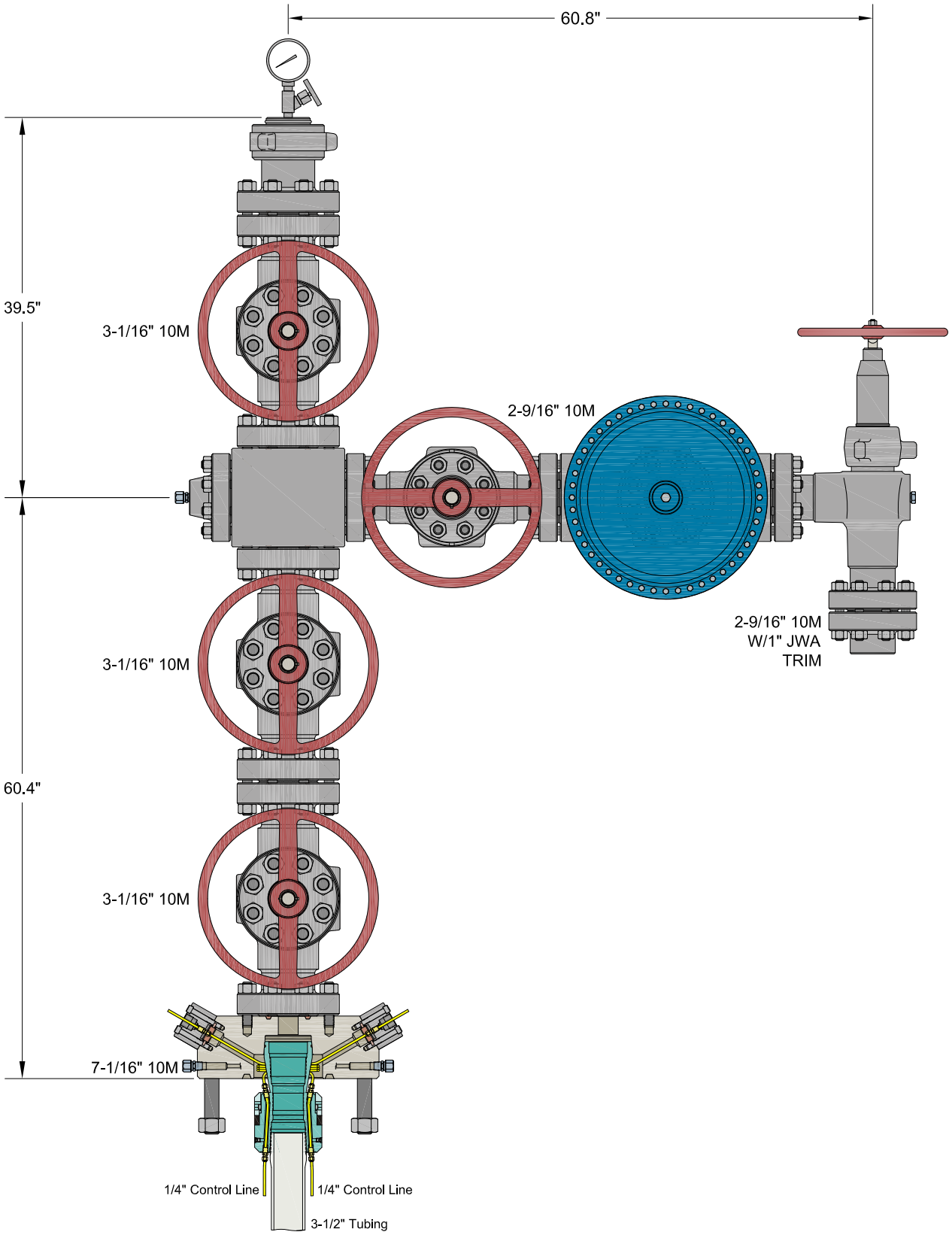
Triste_Draw_36_25_Federal_Com_Location_Layout_Plat_20231115135509.pdf
Triste_Draw_36_25_Federal_Com_Well_Site_Layout_20231115135509.pdf
Triste_Draw_36_25_Federal_Com_402H_Natural_Gas_Plan_Cimarex_20231120082819.pdf

Other Variance attachment:

NEW_MEXICO_STANDARD_VARIANCES_Triste_351H_352H_20240424145802.pdf
CHOKE_HOSE_M14856_404H_20240424145813.pdf

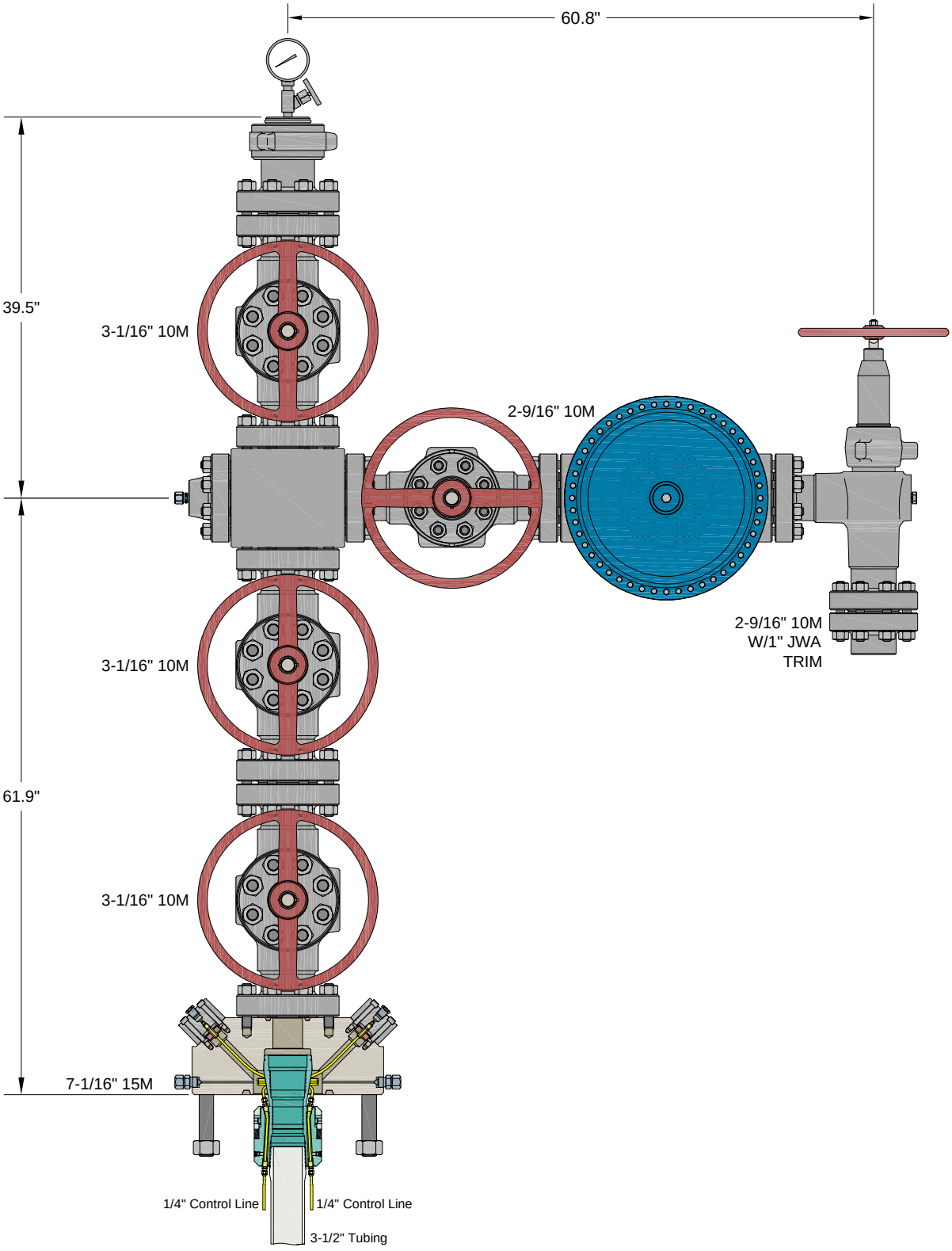
COTERRA





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	



ALL DIMENSIONS APPROXIMAT

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

Bill To: 7050

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

Ship To: 1016

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

	Quantity	Price	Ext Price

CIMAREX

HOBBS, NM

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

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - $49,338.02

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

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

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

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

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

OPTIONAL 15M ADAPTER

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

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

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. **RISK OF LOSS**.

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

Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

material in respect of which such claim is made.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Gates Engineering & Services UK Ltd		CERTIFICATE OF CONFORMITY	
Doc. Ref.	Form-056		
Revision	4		

Gates SO No. 31675	**Customer Name & Address:** **Gates Engineering & Services North America** **7603, Prairie Oak Drive** **Suite 190** **Houston, TX 77086** **United States**
Clients PO No: 1714987/ 0	
Description: 3" Choke & Kill Hose x 35ft	

This is to certify that the components listed below have been supplied in accordance API 16C & with the referenced order number above. The assemblies listed below have been manufactured and tested in the UK

SPECIFICATION

ITEM	DESCRIPTION	Drawing Num	QTY
2	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	31675-DW-001, Rev 0	1
	Hose Batch: 120839		
	Hose Assembly: 120840		
	Customer Tag: N/A		
	Working Pressure: 10000 PSI		
	Test Pressure: 15000 PSI		
	Standard: API 16C		
	PSL: FSL 3		
	Material Grade: F		
	Temperature Rating: -25 to +100 Deg C		

Gates Engineering & Services UK Limited QA Approved

Accepted by..S A Tait..... 17/02/20 ..... **for and on behalf of Gates Engineering & Services UK Ltd**

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

	Certificate No:
☐ BURST ☑ HYDROSTATIC ☐ CYCLIC	31675-002

Product:	3” Choke & Kill Hose	**Hose WO/Batch:**	120839
Assembly WO:	120840	**Length:**	35Ft
SO No:	31675	**Date:**	11/02/20
Client:	Gates Engineering & Services North America	**Client Reference:**	1714987/ 0

Inner Diameter:	3	**Inch**		
Working Pressure:	10000	**Psi**	690	**bar**
Test Pressure:	15000	**Psi**	1034	**bar**
Burst Pressure:	22500	**Psi**	1551	**bar**

Hose Description:	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	
Item No	**Qty**	**Part Code**	**Customer Tag No (if applicable)**
2	1	HA31623-001	N/A

Details of Test:	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
Results:	Pressure Loss: 11.4 Bar Acceptance Criteria: Pressure loss not to exceed - 34.47 Bar or 500 PSI

GESUK Ltd	Third Party
17/02/20	

CR 374

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

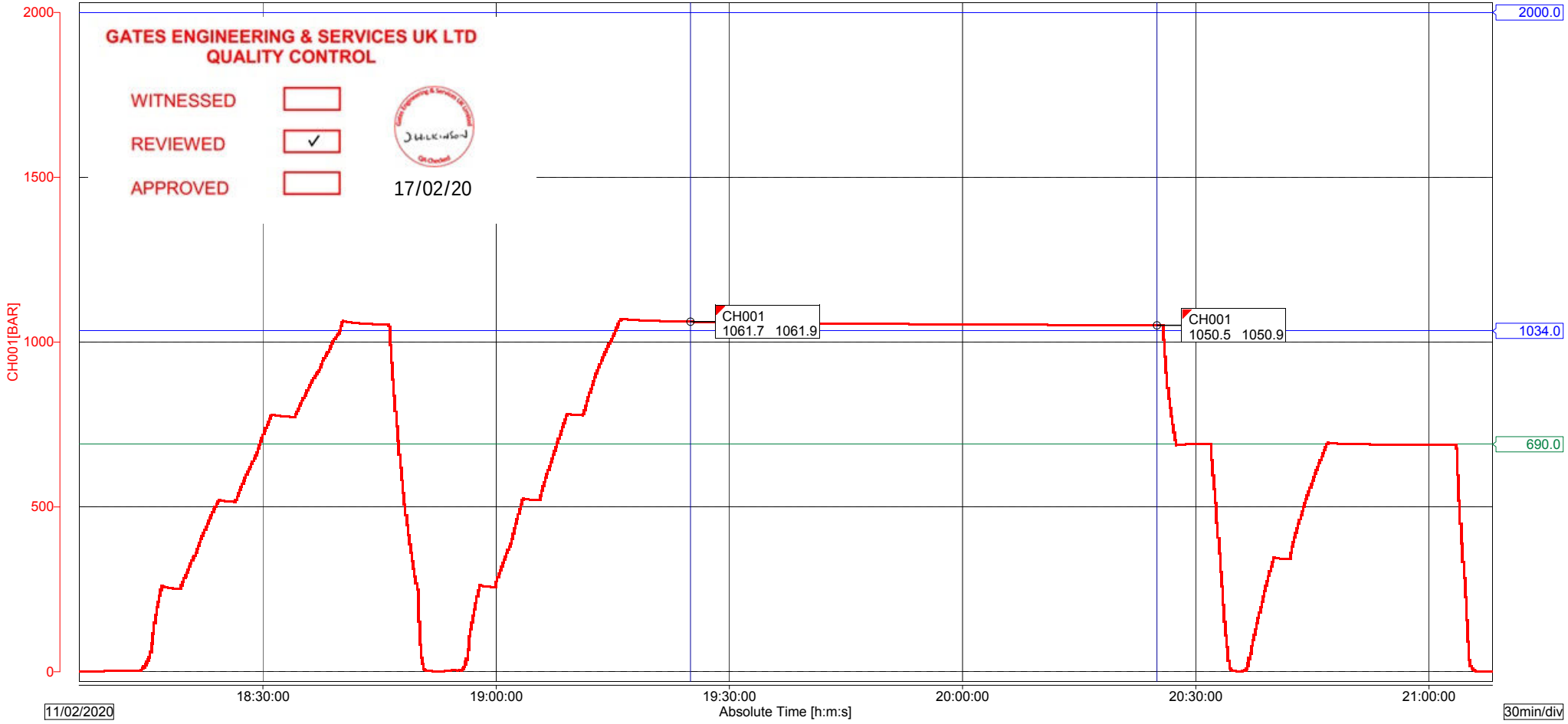
Start Time : 11/02/2020 18:06:20.000
Stop Time : 11/02/2020 21:08:10.000

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



TUSK LIFTING

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		
Gates Engineering & Services UK Ltd Bassington Drive Bassington Industrial Estate Cramlington NE23 8AS	Tusk Lifting Ltd 49D Sadler Forster Way Teesside Industrial Estate Stockton-On-Tees TS17 9JY	DATE OF REPORT	08/01/2020
		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.

NAME AND QUALIFICATION OF PERSON MAKING THE REPORT

Jimmy Joyce, Company Approved Examiner

SIGNATURE

NAME OF THE PERSON AUTHENTICATING THE REPORT

Julie Montgomery, Planner

SIGNATURE

DATE OF THOROUGH EXAMINATION **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

MAMMOET

LEEA Full Member

IMB52628

William Hackett
Lifting Products Limited

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001
ENVIRONMENTAL SYSTEM CERTIFICATION DNV·GL ISO 14001
SAFETY SYSTEM CERTIFICATION DNV·GL ISO 45001
LEEA Full Member

DUAL PURPOSE DOCUMENT

EC DECLARATION OF CONFORMITY — A

DECLARATION

I DECLARE THAT THE ITEMS DESCRIBED ON THIS DOCUMENT COMPLY WITH THE REQUIREMENTS OF THE MACHINERY DIRECTIVE 2006/42/EC

MANUFACTURER'S CERTIFICATE — B

CERTIFIED ON BEHALF OF THE COMPANY

T.J. BURGESS 17/12/2019

Delivery Address		
TUSK LIFTING LTD (STOCK) 49D SADLER FORSTER WAY TEESIDE INDUSTRIAL ESTATE STOCKTON ON TEES TS17 9JY	**Supplied To:**	TUS002
	Certificate Number:	**L072222**
	Customer Order No:	7557
	Date Received:	17/12/2019

PRODUCTS REQUIRING A DECLARATION OF CONFORMITY ARE INDICATED BY (A)
THOSE REQUIRING JUST A MANUFACTURER'S CERTIFICATE BY (B)

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, ALNWICK, 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

Report Version 2-5

IMB52628

William Hackett
Lifting Products Limited

3.1 Material Certificate

DATE: 18.12.2019	**PURCHASE ORDER NO. 7557**

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

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

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

Trading & Registered Office: Oak Drive, Lionheart Enterprise Park, Alnwick, Northumberland NE66 2EU
Tel: +44 (0) 1665 604200 Fax: +44 (0) 1665 604204 Email: info@williamhackett.co.uk
Website: www.williamhackett.co.uk CRN: 09679580 VAT Registration No. 217 3508 23

YOKE®

Safety is our first priority™

Q6|259

YOKE INDUSTRIAL CORP.
#39,33rd Road, Taichung Industrial Park,
TAICHUNG 407, TAIWAN
TEL:+886-4-2350 8088
FAX:+886-4-2350 1001

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 Crack Tested :	100% of above quantity

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

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 Yu

Dated: May 14, 2019

Qualification: QA Manager

YOKE®

Safety is our first priority™

Q61396

YOKE INDUSTRIAL CORP.
#39,33rd 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	Proof Load Test 100% :	93kN
Mini. Breaking Load :	373kN	Fatigue Rate 20000 cycle :	70kN
Magnetic Flux Crack Tested :	100% of above quantity	Impact Test (-40℃) :	42J
Working Load Limit :	4.75tonnes		

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

TEST RESULT
Pass

YOKE INDUSTRIAL CORP.

Jason Yu

Dated: September 30, 2019

Qualification: QA Manager

IML52690

TUSK LIFTING

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		
Gates Engineering & Services UK Ltd Bassington Drive Bassington Industrial Estate Cramlington NE23 8AS	Tusk Lifting Ltd 49D Sadler Forster Way Teesside Industrial Estate Stockton-On-Tees TS17 9JY	DATE OF REPORT	21/01/2020
		REPORT NO	13586
		CUSTOMER REFERENCE	052690
		CONTRACT NO.	0000059627

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
30.00	IMK52690/01 - IMK52690/30	3.6T Safety Clamp CS Galv - 195MM Material CERT : GI9268	3.6 TONNE	-	B	PROOF LOAD	21/07/2020
20.00	IML52690/01 - IML52690/20	3.6T Safety Clamp CS Galv - 195MM Material CERT : GI9268	3.6 TONNE	-	B	PROOF LOAD	21/07/2020

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

NAME AND QUALIFICATION OF PERSON MAKING THE REPORT

Jimmy Joyce, Company Approved Examiner

SIGNATURE

NAME OF THE PERSON AUTHENTICATING THE REPORT

Julie Montgomery, Planner

SIGNATURE

DATE OF THOROUGH EXAMINATION **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

MAMMOET

LEEA Full Member

IML52690

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

CELSA GROUP

CELSA MANUFACTURING UK

CE UK MADE

LRV ID N: 0038
06
Cert No: 0038/CPR/LRQ4002811/1
DOP: CELSAUK001 EN10025
Hot rolled structural steel products

5792 9615

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 Hot rolled structural steel products	CAST	C %	MN %	SI %	S %	P %	Cr %	N %	Ni %	Cu %	Mo %	V %	CE %	Reh MPA	Rm MPA	A 5.65 %	T °C	Impact 1 J	Impact 2 J	Impact 3 J	Impact Avg. 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 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	317	452	33.8		Red.	X		
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 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	313	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 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	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 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	320	448	33.2					
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	329	447	33.8					
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	326	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	447	33.5					

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

Steel making process :
Electric arc

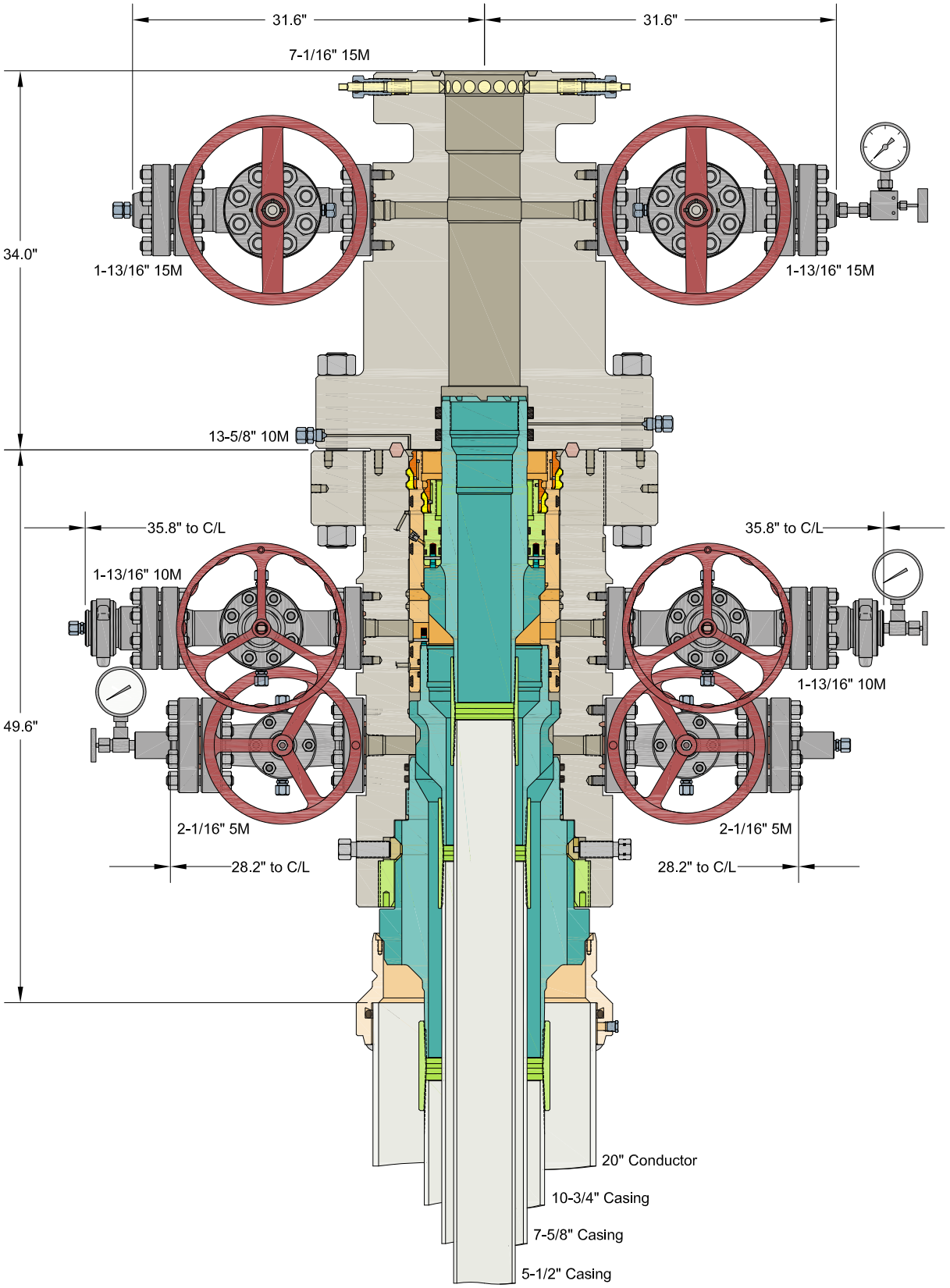
Certified that the material detailed hereon meets the requirements of the specified standard.

Cardiff, 20.08.2019

Stuart Thomas
Quality Manager

THIS IS A VERIFIED TRUE COPY OF AN ORIGINAL CERTIFICATE
CARTER STEEL LTD

CARTER STEEL LTD
DATE 21.8.2019
ORDER No 11049
CHECKED BY:



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

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

Bill To:	7035	**Ship To:**	0
COTERRA ENERGY INC PO BOX 4544 Attn: GULF COAST OFFICE HOUSTON TX 77210 US		COTERRA ENERGY INC PO BOX 4544 Attn: GULF COAST OFFICE HOUSTON TX 77210 US	

	Quantity	Price	Ext Price

COTERRA ENERGY INC
DAVID SHAW

HOBBS, NM

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

QUOTATION SUMMARY:

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

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

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

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

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

Cactus

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

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

Cactus

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

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

CASING HANGERS & PACKOFFS

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

RENTAL TOOLS

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

Cactus

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

			Quantity	Price	Ext Price

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

Cactus

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

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

Cactus

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

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

CONTINGENCY EQUIPMENT

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

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

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

Cactus

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. **RISK OF LOSS**.

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

Cactus

Quotation

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

Quote Number : HBE0000965

Date: 07/07/2023

Valid For 30 Days

material in respect of which such claim is made.

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

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

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

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

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

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

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

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

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

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

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

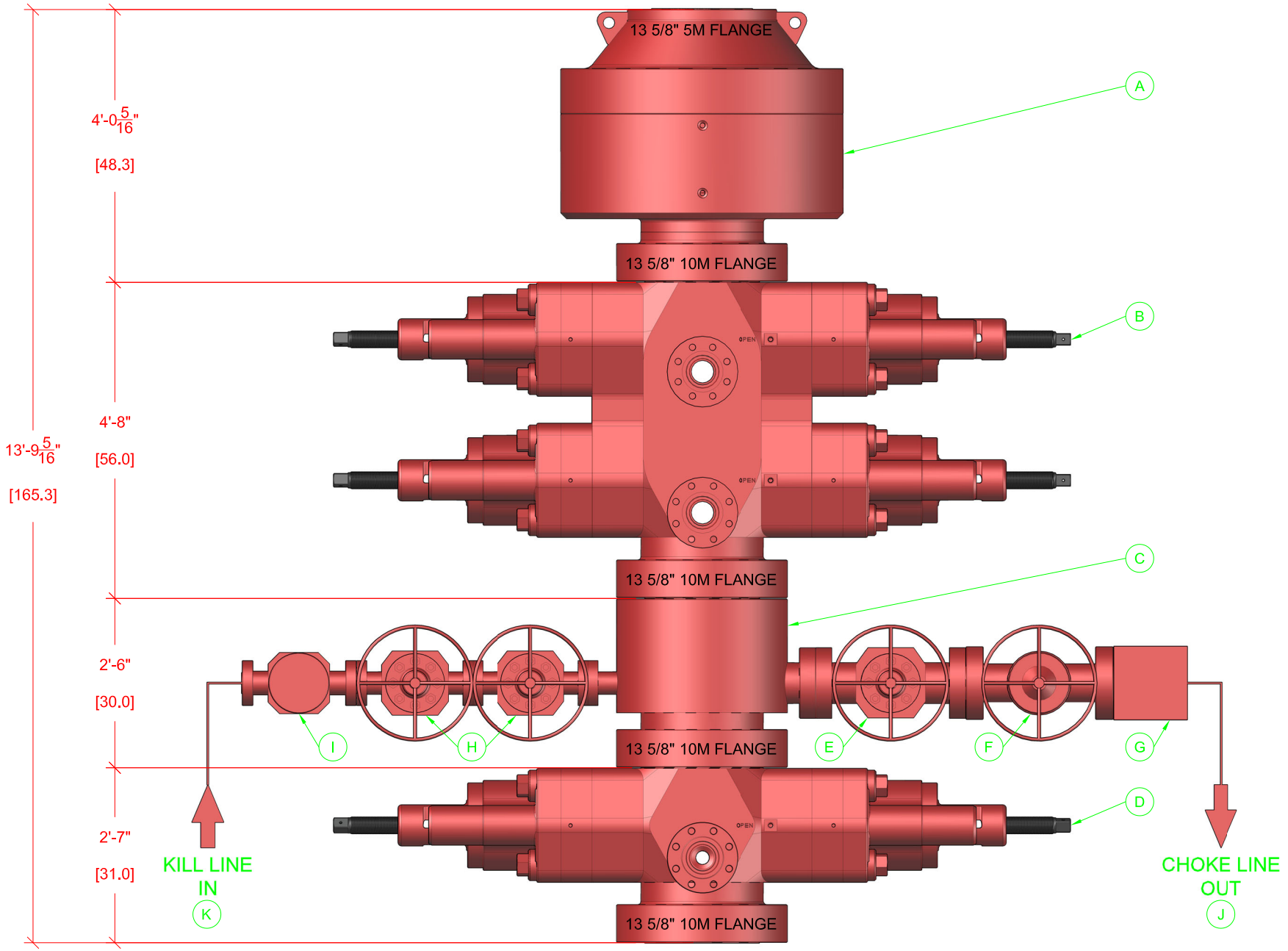
20. **CHOICE OF LAW**. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF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

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

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

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

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



BOP EQUIPMENT INFORMATION

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

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

SYM	DATE	REVISION	BY

TOLERANCE UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES

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

ANGLES ± .5 DEGREES

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

CUSTOMER INFO:

FILE: R-148_BOP.dwg

DWG BY	IJA	9/10/2021
CHK BY		
APP BY		

SCALE: 1:25

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

TITLE:
RIG 148
BOP STACK-UP

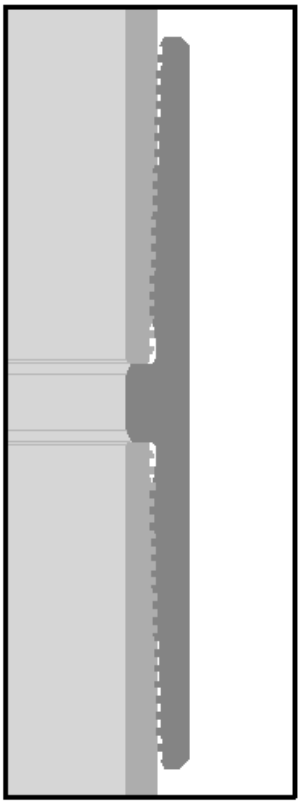
SIZE A | CAC148-A005 | SHEET 1/1

Technical Specifications

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

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

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



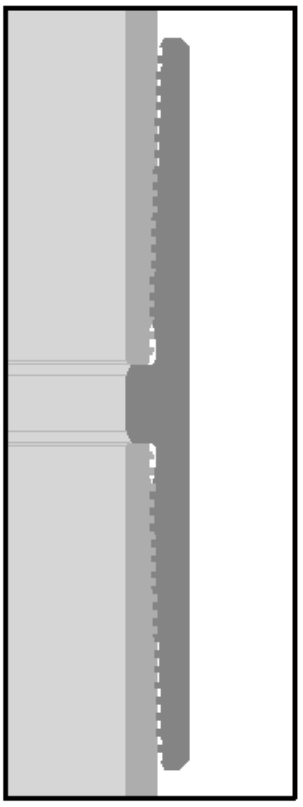
For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

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

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.



10/08/2020 3:58 PM

VAM USA

DWC/C-IS PLUS™

Connection Data Sheet

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

PIPE PROPERTIES		
Outside Diameter	5.000	in.
Inside Diameter	4.276	in.
Nominal Area	5.275	sq.in.
Grade Type	API 5CT	
Min. Yield Strength	110	ksi
Max. Yield Strength	125	ksi
Min. Tensile Strength	125	ksi
Yield Strength	580	klb
Ultimate Strength	659	klb
Min. Internal Yield	13,940	psi
Collapse	13,470	psi

CONNECTION PROPERTIES		
Connection Type	Semi-Premium T&C	
Connection O.D. (nom)	5.800	in.
Connection I.D. (nom)	4.276	in.
Make-Up Loss	4.063	in.
Coupling Length	9.125	in.
Critical Cross Section	5.275	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES		
Yield Strength	580	klb
Parting Load	659	klb
Compression Rating	580	klb
Min. Internal Yield	13,940	psi
External Pressure	13,470	psi
Maximum Uniaxial Bend Rating	100.8	°/100 ft
Reference String Length w 1.4 Design Factor	23,020	ft.

FIELD END TORQUE VALUES		
Min. Make-up torque	13,300	ft.lb
Opti. Make-up torque	14,200	ft.lb
Max. Make-up torque	15,100	ft.lb
Min. Shoulder Torque	1,330	ft.lb
Max. Shoulder Torque	10,640	ft.lb
Min. Delta Turn	-	Turns
Max. Delta Turn	0.200	Turns
Maximum Operational Torque	16,900	ft.lb
Maximum Torsional Value (MTV)	18,590	ft.lb

Need Help? Contact: tech.support@vam-usa.com

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

Date: 03/03/2020

Time: 01:10:05 PM

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

VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
VAM® USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support Email: tech.support@vam-usa.com

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

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 354804

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 354804
	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