

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-53122
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



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

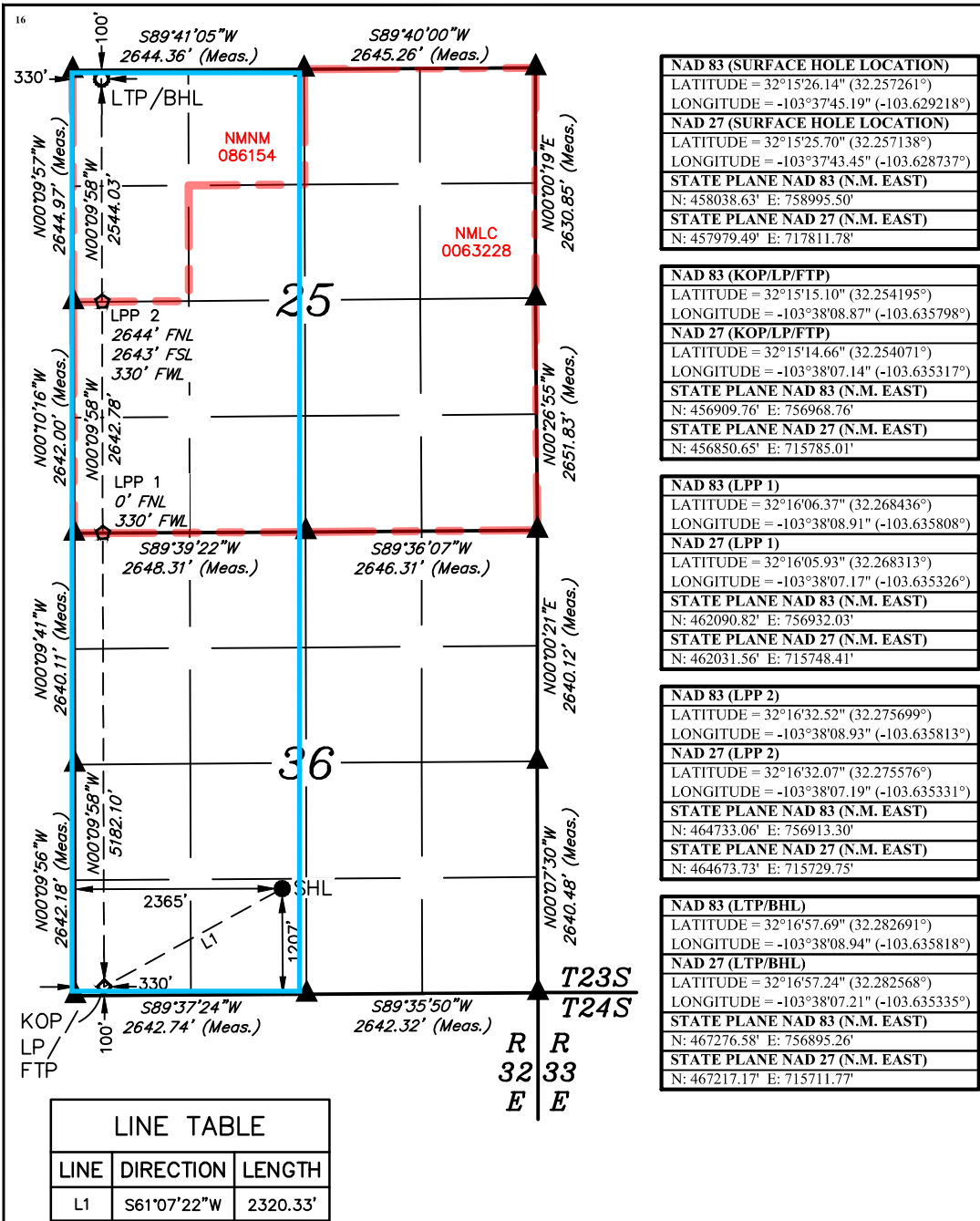
¹⁰ Surface Location

UL or lot no. N	Section 36	Township 23S	Range 32E	Lot Idn	Feet from the 1207	North/South line SOUTH	Feet from the 2365	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

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

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



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:



S C A L E

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

State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**NATURAL GAS MANAGEMENT PLAN**

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

Section 1 – Plan Description
Effective May 25, 2021**I. Operator:** Cimarex Energy Company **OGRID:** 215099 **Date:** 11/7/23**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Triste Draw 36-25 Federal Corn	401H	N, Sec 36 T23S, R32E	1207 FSL/2365 FWL	2269	5485	5915

IV. Central Delivery Point Name: Triste Draw 36-25 CTB [See 19.15.27.9(D)(1) NMAC]**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Triste Draw 36-25 Federal Corn	401H	7/15/2025	9/19/2025	10/27/2025	12/11/2025	12/11/2025

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices


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

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

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

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

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

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

From State of New Mexico, Natural Gas Management Plan

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

XEC Standard Response

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

Cimarex

VII. Operational Practices

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

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

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

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

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

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

- **Workovers:**
 - Always strive to kill well when performing downhole maintenance.
 - If vapors or trapped pressure is present and must be relieved then:
 - Initial blowdown to production facility:
 - Route vapors to LP flare if possible/applicable
 - Blowdown to portable gas buster tank:
 - Vent to existing or portable flare if applicable.
- **Stock tank servicing:**
 - Minimize time spent with thief hatches open.
 - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
 - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
 - Isolate the vent lines and overflows on the tank being serviced from other tanks.
- **Pressure vessel/compressor servicing and associated blowdowns:**
 - Route to flare where possible.
 - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
 - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
 - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.
- **Flare/combustor maintenance:**
 - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
 - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
 - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

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

1. Geological Formations

TVD of target 12,445

Pilot Hole TD N/A

MD at TD 22,883

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1238	N/A	
Top of Salt	1731	N/A	
Lamar	5036	N/A	
Bell Canyon	5087	Hydrocarbons	
Cherry Canyon	5940	Hydrocarbons	
Brushy Canyon	7318	Hydrocarbons	
Basal Brushy Canyon	8633	N/A	
Bone Spring Lime	8850	N/A	
Leonard/Avalon	9033	Hydrocarbons	
Avalon Shale	9465	Hydrocarbons	
1st Bone Spring Sand	10050	Hydrocarbons	
2nd Bone Spring Sand	10592	Hydrocarbons	
3rd Bone Spring Carbonate	11115	N/A	
3rd Bone Spring Sand	11942	Hydrocarbons	
Wolfcamp	12270	Hydrocarbons	
Wolfcamp Clastics - Target	12445	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
14 3/4	0	1320	1320	10-3/4"	40.50	J-55	BT&C	2.83	5.61	12.06
9 7/8	0	12936	12405	7-5/8"	29.70	L-80	LT&C	2.47	1.19	1.54
6 3/4	0	12136	12136	5-1/2"	23.00	L-80	LT&C	1.47	1.30	2.18
6 3/4	12136	22883	12445	5"	18.00	P-110	BT&C	1.73	1.75	104.28
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Cimarex Energy Co., Triste Draw 36-25 Federal Com 401H

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

3. Cementing Program

Casing	# Sk	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	513	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	137	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	1025	10.30	3.64	22.18		Lead: Tuned Light + LCM
	198	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Production	1386	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	45
Intermediate	0	49
Production	12736	25

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
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 12936'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
12936' to 22883'	OBM	11.50 - 12.00	50-70	N/C

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

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

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

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

Additional Logs Planned	Interval
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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	H ₂ S is present
X	H ₂ S plan is attached

8. Other Facets of Operation**9. Wellhead**

- The multi-bowl wellhead will be installed by a vendor representative. A copy of the installation instructions has been sent to the BLM field office.
- A packoff will be installed after running and cementing the production casing. This packoff will be tested to 10K psi.

BOPE Additional Information & Testing

- After running the first string of casing, a 10M BOP/BOPE system with 5M annular will be installed. BOPs will be tested according to Onshore Order #2. BOPE will be tested to full rated pressure (10K for all BOPE except the annular, which is tested to 5K). For the low test, the system will be tested to 250 psi.
- All BOP equipment will be tested utilizing a conventional test plug.
- A remote kill line is included in the BOPE system
- All casing strings will be tested per Onshore Order #2, to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of casing burst.
- If well conditions dictate, conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Additional Well Control Notes

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



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



Def Plan

Report Date:
Client:
Field:
Structure / Slot:
Well:
Borehole:
UBH / API#:
Survey Name:
Survey Date:
Tort / AHD / DDI / ERD Ratio:
Coordinate Reference System:
Location Lat / Long:
Location Grid N/E Y/X:
CRS Grid Convergence Angle:
Grid Scale Factor:
Version / Patch:

October 23, 2023 - 09:21 PM (UTC 0)
COTERRA
NM Lea County (NAD 83)
Coterra Triste Draw 36-25 Fed Com E2W2 Pad / 401H
Triste Draw 36-25 Federal Com 401H
Triste Draw 36-25 Federal Com 401H
Unknown / Unknown
Coterra Triste Draw 36-25 Federal Com 401H Rev0 mdv 19Oct23
October 23, 2023
124.014 ° / 12687.258 ft / 6.461 / 1.019
NAD83 New Mexico State Plane, Eastern Zone, US Feet
32°15'26.13990"N , 103°37'45.18583"W
N 458038.630 NUS , E 758995.500 NUS
0.376"
0.99996335
2023.1.0.1

Survey / DLS Computation:
Vertical Section Azimuth:
Vertical Section Origin:
TVD Reference Datum:
TVD Reference Elevation:
Seabed / Ground Elevation:
Magnetic Declination:
Total Gravity Field Strength:
Gravity Model:
Total Magnetic Field Strength:
Magnetic Dip Angle:
Declination Date:
Magnetic Declination Model:
North Reference:
Grid Convergence Used:
Total Corr Mag North->Grid North:
Local Coord Referenced To:

Minimum Curvature / Lubinski
359.590 °(GRID North)
0.000 ft, 0.000 ft
RKB
3680.400 ft above MSL
3657.400 ft above MSL
6.242°
996.4376mgn (8.80665 Based)
GARM
47454.923 nT
59.802°
September 29, 2023
HDCM 2023
Grid North
0.376°
5.867°
Well Head

Comments	MD (ft)	Incl (°)	Azin (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (NUS)	Easting (EUS)	Latitude (°)	Longitude (°)
SHL [1207° FSL, 2365° FWL]	0.00	0.00	240.89	0.00	-3,680.40	0.00	0.00	0.00		458,038.63	758,995.50	32.25726108	-103.62921829
Nudge, Build 2°/100ft	1,800.00	0.00	240.89	1,800.00	-1,880.40	0.00	0.00	0.00	0.00	458,038.63	758,995.50	32.25726108	-103.62921829
Hold	2,650.22	17.00	240.89	2,637.79	-1,042.61	-80.15	-80.94	-109.42	2.00	457,977.69	758,886.09	32.25709956	-103.62957350
Drop 2°/100ft	9,726.51	17.00	240.89	9,404.73	5,724.33	-1,054.09	-1,067.84	-1,917.36	0.00	456,970.83	757,078.21	32.25436045	-103.63544270
Hold	10,576.73	0.00	240.89	10,242.52	6,562.12	-1,114.25	-1,128.78	-2,026.78	2.00	456,909.89	756,968.80	32.25419491	-103.63579789
KOP, Build 10°/100ft	12,186.73	0.00	240.89	11,852.52	8,172.12	-1,114.25	-1,128.78	-2,026.78	0.00	456,909.89	756,968.80	32.25419491	-103.63579789
Build 5°/100ft	12,936.73	75.00	359.59	12,405.95	8,725.55	-889.58	-704.13	-2,029.82	10.00	457,334.53	756,965.76	32.25536216	-103.63579880
Landing Point	13,236.73	90.00	359.59	12,445.00	8,764.60	-393.00	-407.55	-2,031.93	5.00	457,631.10	756,963.65	32.25617737	-103.63579940
Triste Draw 36-25 Federal Com 401H LPP1	17,696.63	90.00	359.59	12,445.00	8,764.60	4,066.90	4,052.23	-2,063.57	0.00	462,090.71	756,932.01	32.26843600	-103.63580800
Triste Draw 36-25 Federal Com 401H LPP2	20,339.15	90.00	359.60	12,445.00	8,764.60	6,700.42	6,694.69	-2,082.28	0.00	464,733.06	756,913.30	32.27569932	-103.63581294
Triste Draw 36-25 Federal Com 401H BHL [100° FNL, 330° FWL]	22,882.83	90.00	359.59	12,445.00	8,764.60	9,253.10	9,238.31	-2,100.32	0.00	467,276.58	756,895.26	32.28269096	-103.63581781

Survey Type: Def Plan

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


Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	10,363.200	1/100.000	5.5 – 12.25 – 8.75 3.375 – 9.625 – 7			A001Mb_MWD		Triste Draw 36-25 Federal Com 401H / Coterra Tris
	1	10,363.200	19,512.179	1/100.000	8.75 – 6	7 – 4.5		A008Mb_MWD+IFR1+MS		Triste Draw 36-25 Federal Com 401H / Coterra Tris


EOU Geometry:

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





Caterra Cis Slingers 23.14 Federal Com 32H Rev0 kEa10Dec23

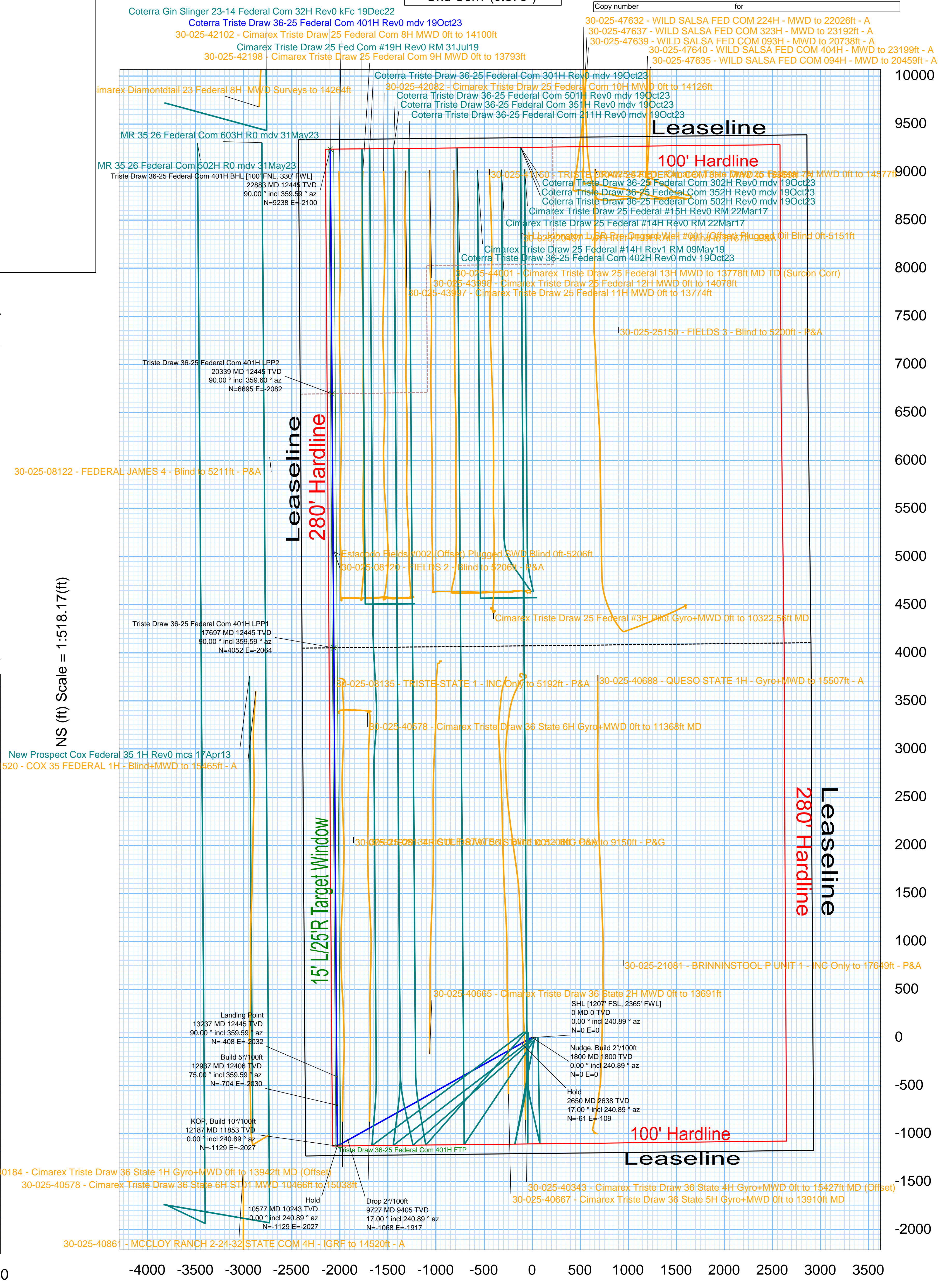


Grid North
Tot Corr (M->G 5.867°)
Mag Dec (6.242°)
Grid Conv (0.376°)

CONTROLLED	
Plan ref	Coterra Triste Draw 36-25 Federal Com 401H Rev0 midv 19Oct23
Drawing ref	
Copy number	of 3
Date	23-Oct-2023

1	Client	
2	Client	
3	Office	
4	Office	

Copy number _____ for _____



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



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

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

Analysis Method: 3D Least Distance
Reference Trajectory: Coterra Triste Draw 36-25 Federal Com 401H Rev0 mdv 19Oct23 (Def Plan)
Depth Interval: Every 10.00 Measured Depth (ft)
Rule Set: NAL Procedure: D&M AntiCollision Standard S002
Min Pts: Absolute minima indicated.
Engine Version: 2023.1.0.1
Database 1 Project: Triste Draw 36-25 Federal Com 401H-COTERRA

Trajectory Error Model: ISCSA0 3 - D 95 % Confidence 2.7955 sigma

Offset Trajectories Summary

Offset Selection Criteria

Bounding box scan: minimum Ct-Ct separation <= 10000ft
Selection filters: Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

50 out of 51 are selected

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

Results highlighted in red: Sep-Factor <= 1.5

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

30-025-41520 - COX 35 FEDERAL 1H - Blind+MWD to 15465ft - A (DefinitiveSurvey)

Fail Major

2924.32	32.81	2922.34	2891.51	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
2924.31	32.81	2922.33	2891.50	#####	MAS = 10.00 (m)	10.00	10.00					MinPts
2924.31	32.81	2922.33	2891.50	#####	MAS = 10.00 (m)	23.00	23.00					WRP
2924.82	887.63	2332.40	2037.19	4.95	OSF1.50	550.00	550.00	OSF<5.00				Enter Alert
2928.42	2941.96	966.52	-13.54	1.49	OSF1.50	1550.00	1550.00		OSF<1.50			Enter Minor
2899.57	4356.53	-5.37	-1456.96	1.00	OSF1.50	2240.00	2238.27					Enter Major
872.52	20758.04	-12966.71	-19885.52	0.06	OSF1.50	10475.85	10141.65					MinPt-CtCt
879.98	21284.42	-13310.17	-20404.44	0.06	OSF1.50	10770.00	10435.79					MinPt-SF
880.27	21285.14	-13310.36	-20404.87	0.06	OSF1.50	10780.00	10445.79					MinPts
1679.26	11733.63	-6143.66	-10054.37	0.21	OSF1.50	13260.00	12445.00					MinPt-CtCt
1681.92	11774.52	-6168.26	-10092.60	0.21	OSF1.50	13410.00	12445.00					MinPt-SF
1682.26	11775.58	-6168.63	-10093.32	0.21	OSF1.50	13420.00	12445.00					MinPts
1686.23	11543.63	-6010.03	-9857.41	0.22	OSF1.50	14000.00	12445.00					MinPt-SF
1685.50	11534.05	-6004.37	-9848.55	0.22	OSF1.50	14080.00	12445.00					MinPt-CtCt
1686.06	11484.29	-5970.62	-9798.21	0.22	OSF1.50	14550.00	12445.00					MinPt-CtCt
1686.19	11493.92	-5976.93	-9807.73	0.22	OSF1.50	14640.00	12445.00					MinPts
1686.03	11488.52	-5973.48	-9802.49	0.22	OSF1.50	14710.00	12445.00					MinPt-CtCt
1683.36	11357.13	-5888.55	-9673.76	0.22	OSF1.50	14990.00	12445.00					MinPt-SF
1671.00	11208.61	-5801.91	-9537.61	0.22	OSF1.50	15570.00	12445.00					MinPt-SF
1668.58	11186.72	-5789.73	-9518.14	0.22	OSF1.50	15710.00	12445.00					MinPt-CtCt
1665.79	11154.80	-5771.25	-9489.02	0.22	OSF1.50	15860.00	12445.00					MinPt-SF
1659.13	11090.37	-5734.95	-9431.24	0.22	OSF1.50	16130.00	12445.00					MinPts
1653.10	11098.99	-5746.73	-9445.89	0.22	OSF1.50	16430.00	12445.00					MinPt-CtCt
1652.76	11146.38	-5778.66	-9493.62	0.22	OSF1.50	16710.00	12445.00					MinPt-CtCt
1652.92	11152.40	-5782.51	-9499.43	0.22	OSF1.50	16770.00	12445.00					MinPts
1643.66	10847.73	-5588.64	-9204.05	0.23	OSF1.50	17250.00	12445.00					MinPt-CtCt
1998.79	15155.31	-8105.25	-13156.52	0.20	OSF1.50	18390.00	12445.00					MinPt-SF
3150.14	19100.96	-9590.30	-15959.76	0.25	OSF1.50	19940.00	12445.00					MinPt-EOU
3568.42	19624.28	-9514.93	-16065.86	0.27	OSF1.50	20420.00	12445.00					MinPt-ADP
5865.17	20712.59	-7943.72	-14847.42	0.42	OSF1.50	22882.83	12445.00					TD

30-025-08134 - GULF-STATE 1 - Blind to 5206ft - P&A (DefinitiveSurvey)

Fail Major

2696.31	32.81	2694.33	2663.50	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
2696.23	32.81	2694.24	2663.42	211505.30	MAS = 10.00 (m)	10.00	10.00					MinPt-SF
2696.18	32.81	2694.19	2663.37	363641.17	MAS = 10.00 (m)	23.00	23.00					WRP
2696.17	818.48	2149.86	1877.69	4.95	OSF1.50	470.00	470.00	OSF<5.00				Enter Alert
2696.17	2707.03	890.90	-10.86	1.49	OSF1.50	1380.00	1380.00		OSF<1.50			Enter Minor
2694.56	4055.64	-9.79	-1361.08	1.00	OSF1.50	2030.00	2029.75					Enter Major
2653.77	7700.42	-2480.43	-5046.66	0.52	OSF1.50	3850.69	3785.78					MinPt-CtCt
2690.71	10704.96	-4446.46	-8014.24	0.38	OSF1.50	5370.00	5238.67					MinPts
4666.45	7017.26	-12.26	-2350.81	1.00	OSF1.50	9050.00	8757.79					Exit Major
5879.38	5883.06	1956.80	-3.68	1.50	OSF1.50	10480.00	10145.81			OSF>1.50		Exit Minor
7371.59	2221.28	5890.23	5150.31	4.98	OSF1.50	14240.00	12445.00	OSF>5.00				Exit Alert
7219.72	521.47	6871.57	6698.25	20.82	OSF1.50	15730.00	12445.00					MinPt-CtCt
7370.13	2214.11	5893.56	5156.03	5.00	OSF1.50	17210.00	12445.00	OSF<5.00				Enter Alert
8715.06	6014.52	4704.88	2700.54	2.17	OSF1.50	20610.00	12445.00					MinPt-EOU
9491.42	6963.55	4848.55	2527.87	2.04	OSF1.50	21890.00	12445.00					MinPt-ADP
10164.01	7547.17	5132.06	2616.84	2.02	OSF1.50	22882.83	12445.00					MinPt-SF

30-025-08120 - FIELDS 2 - Blind to 5206ft - P&A (DefinitiveSurvey)

Fail Major

5457.40	32.81	5448.09	5424.59	743.90	MAS = 10.00 (m)	0.00	0.00					Surface
5457.40	36.85	5432.18	5420.55	234.68	OSF1.50	23.00	23.00					WRP
5457.40	1655.53	4353.05	3801.87	4.95	OSF1.50	880.00	880.00	OSF<5.00				Enter Alert
5457.40	3564.84	3080.26	1892.57	2.30	OSF1.50	1800.00	1800.00					MinPt-CtCt
5477.72	5481.94	1822.51	-4.21	1.50	OSF1.50	2740.00	2723.65		OSF<1.50			Enter Minor
5555.56	8340.13	-5.12	-2784.57	1.00	OSF1.50	4180.00	4100.70					Enter Major
5638.76	10593.46	-1424.09	-4954.71	0.80	OSF1.50	5320.00	5190.86			OSF<1.00		MinPts
6457.92	9693.47	-4.93	-3235.55	1.00	OSF1.50	8040.00	7791.95					Exit Major
8090.63	8095.38	2693.17	-4.75	1.50	OSF1.50	10740.00	10405.79			OSF>1.50		Exit Minor
8739.51	5901.43	4804.73	2838.08	2.22	OSF1.50	13830.00	12445.00					MinPt-EOU
7425.91	2241.14	5931.32	5184.77	4.97	OSF1.50	17130.00	12445.00	OSF>5.00				Exit Alert
7258.61	168.76	7145.60	7089.85	65.08	OSF1.50	18700.00	12445.00					MinPt-CtCt
7424.89	2239.60	5931.33	5185.29	4.98	OSF1.50	20260.00	12445.00	OSF<5.00				Enter Alert
8378.85	5297.88	4846.43	3080.97	2.37	OSF1.50	22882.83	12445.00					MinPts

30-025-08122 - FEDERAL JAMES 4 - Blind to 5211ft - P&A (DefinitiveSurvey)

Fail Major

6625.73	32.81	6612.26	6592.92	576.75	MAS = 10.00 (m)	0.00	0.00					Surface
6625.73	43.07	6596.35	6582.65	241.77	OSF1.50	23.00	23.00					WRP
6625.73	2009.86	5285.16	4615.87	4.95	OSF1.50	1000.00	1000.00	OSF<5.00				Enter Alert
6625.73	3670.09	4178.41	2955.64	2.71	OSF1.50	1800.00	1800.00					MinPt-CtCt
6658.64	6659.01	2218.71	-0.37	1.50	OSF1.50	3280.00	3240.04		OSF<1.50			Enter Minor
6743.95	10132.38	-11.51	-3388.43	1.00	OSF1.50	5030.00	4913.54			OSF<1.00		Enter Major
6762.36	10715.34	-381.74	-3952.98	0.95	OSF1.50	5330.00	5200.42					MinPts
7000.90	10507.31	-4.52	-3506.42	1.00	OSF1.50	6760.00	6567.90			OSF>1.00		Exit Major
8783.90	8784.35	2927.13	-0.45	1.50	OSF1.50	10560.00	10225.79					Exit Minor
9533.81	6958.97	4893.96	2574.84	2.06	OSF1.50	13530.00	12445.00					MinPt-ADP

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	8750.88	6001.15	4749.62	2749.73	2.19	OSF1.50	14830.00	12445.00				MinPt-EOU	
	7412.57	2234.40	5922.47	5178.17	4.98	OSF1.50	18290.00	12445.00	OSF>5.00			Exit Alert	
	7279.94	980.58	6625.72	6299.36	11.15	OSF1.50	19690.00	12445.00				MinPt-CtCt	
	7410.34	2224.66	5926.73	5185.68	5.00	OSF1.50	21070.00	12445.00	OSF<5.00			Enter Alert	
	7950.94	4405.10	5013.71	3545.84	2.71	OSF1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 351H Rev0 mdv 19Oct23 (DefinitivePlan)													Fail Minor
	20.01	16.26	18.72	3.75	N/A	MAS = 4.96 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	20.00	16.26	18.72	3.74	N/A	MAS = 4.96 (m)	23.00	23.00				WRP	
	20.00	16.74	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	1.60	-7.11	1.09	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	21.38	31.44	0.10	-10.05	1.00	OSF1.50	2110.00	2109.40				MinPts	
	22.66	32.96	0.35	-10.31	1.02	OSF1.50	2220.00	2218.50				MinPt-ADP	
	42.05	42.23	13.57	-0.18	1.49	OSF1.50	2800.00	2781.03	OSF>1.50			Exit Minor	
	581.81	178.73	462.33	403.08	4.90	OSF1.50	11890.00	11555.79				MinPts	
	585.31	176.53	467.29	408.78	4.99	OSF1.50	12060.00	11725.79	OSF>5.00			Exit Alert	
	722.75	217.54	577.39	505.21	5.00	OSF1.50	16980.00	12445.00	OSF<5.00			Enter Alert	
	722.67	275.47	538.70	447.20	3.94	OSF1.50	19410.00	12445.00				MinPt-CtCt	
	722.68	371.50	474.68	351.17	2.92	OSF1.50	22882.83	12445.00				MinPts	
30-025-25150 - FIELDS 3 - Blind to 5200ft - P&A (DefinitiveSurvey)													Fail Minor
	7444.43	32.81	7421.97	7411.62	363.42	MAS = 10.00 (m)	0.00	0.00				Surface	
	7444.43	56.57	7406.06	7387.87	204.51	OSF1.50	23.00	23.00				WRP	
	7444.43	2235.43	5953.56	5209.00	5.00	OSF1.50	1140.00	1140.00	OSF<5.00			Enter Alert	
	7444.43	3605.31	5040.31	3839.12	3.10	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	7735.94	7745.43	2571.73	-9.49	1.50	OSF1.50	3860.00	3794.68	OSF<1.50			Enter Minor	
	8005.20	10579.96	951.35	-2574.76	1.13	OSF1.50	5290.00	5162.17				MinPts	
	9666.84	9675.04	3216.28	-8.20	1.50	OSF1.50	9380.00	9073.36	OSF>1.50			Exit Minor	
	10300.79	7481.28	5312.77	2819.51	2.07	OSF1.50	14370.00	12445.00				MinPt-SF	
	9542.54	6835.31	4985.16	2707.22	2.09	OSF1.50	15620.00	12445.00				MinPt-ADP	
	8764.68	5885.12	4840.77	2879.56	2.23	OSF1.50	17160.00	12445.00				MinPt-EOU	
	7872.08	4016.95	5193.62	3855.14	2.94	OSF1.50	21010.00	12445.00				MinPt-CtCt	
	8090.99	4612.17	5015.71	3478.82	2.63	OSF1.50	22882.83	12445.00				MinPts	
30-025-20437 - WEHRLI-FEDERAL 1 - Blind to 5167ft - P&A (DefinitiveSurvey)													Fail Minor
	8369.68	32.81	8347.22	8336.87	408.61	MAS = 10.00 (m)	0.00	0.00				Surface	
	8369.68	56.57	8331.31	8313.11	229.94	OSF1.50	23.00	23.00				WRP	
	8369.68	2526.01	6885.08	5843.66	4.97	OSF1.50	1280.00	1280.00	OSF<5.00			Enter Alert	
	8369.68	3605.31	5965.55	4764.37	3.48	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	8681.23	8698.17	2881.87	-16.93	1.50	OSF1.50	4340.00	4253.70	OSF<1.50			Enter Minor	
	8826.69	10511.47	1818.50	-1684.78	1.28	OSF1.50	5260.00	5133.48				MinPts	
	9940.01	9945.44	3309.18	-5.43	1.50	OSF1.50	8620.00	8346.59	OSF>1.50			Exit Minor	
	10346.45	7432.23	5391.13	2914.22	2.09	OSF1.50	14960.00	12445.00				MinPt-SF	
	9558.31	6763.88	5048.55	2794.42	2.12	OSF1.50	16180.00	12445.00				MinPt-ADP	
	8781.54	5813.08	4905.65	2968.46	2.27	OSF1.50	17570.00	12445.00				MinPt-EOU	
	7582.53	2765.56	5738.39	4817.04	4.11	OSF1.50	21999.38	12445.00				MinPt-CtCt	
	7633.89	3006.17	5629.27	4627.72	3.81	OSF1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 501H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	34.99	28.25	33.71	6.74	N/A	MAS = 8.61 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	34.99	28.25	33.71	6.74	47565.03	MAS = 8.61 (m)	23.00	23.00				WRP	
	34.99	28.25	23.40	6.74	3.27	MAS = 8.61 (m)	1090.00	1090.00				MinPt-EOU	
	34.99	28.25	18.69	6.74	2.22	MAS = 8.61 (m)	1590.00	1590.00				MinPts	
	35.18	28.25	18.38	6.92	2.16	MAS = 8.61 (m)	1640.00	1640.00				MinPt-EOU	
	35.93	28.25	18.64	7.67	2.14	MAS = 8.61 (m)	1690.00	1690.00				MinPt-SF	
	94.02	42.11	65.62	51.91	3.39	OSF1.50	2810.00	2790.59				MinPt-ADP	
	126.71	62.24	84.89	64.47	3.08	OSF1.50	3730.00	3670.37				MinPt-SF	
	557.98	168.16	445.54	389.82	5.00	OSF1.50	9200.00	8901.23	OSF>5.00			Exit Alert	
	787.20	178.06	668.16	609.14	6.66	OSF1.50	12240.00	11905.71				MinPt-CtCt	
	787.89	180.26	667.38	607.62	6.58	OSF1.50	12390.00	12051.55				MinPt-EOU	
	788.67	181.21	667.53	607.45	6.56	OSF1.50	12430.00	12088.54				MinPt-ADP	
	811.42	190.07	684.38	621.35	6.43	OSF1.50	12680.00	12287.07				MinPt-SF	
	862.30	170.84	748.08	691.46	7.61	OSF1.50	13230.00	12444.98				MinPts	
	862.13	259.50	688.80	602.63	5.00	OSF1.50	18630.00	12445.00	OSF<5.00			Enter Alert	
	862.12	277.36	676.89	584.76	4.67	OSF1.50	19340.00	12445.00				MinPt-CtCt	
	862.14	374.95	611.84	487.19	3.45	OSF1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 402H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	40.00	32.25	38.71	7.75	N/A	MAS = 9.83 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	39.99	32.25	38.71	7.74	N/A	MAS = 9.83 (m)	23.00	23.00				WRP	
	39.99	32.25	28.40	7.74	3.76	MAS = 9.83 (m)	1090.00	1090.00				MinPt-EOU	
	39.99	32.25	21.59	7.74	2.24	MAS = 9.83 (m)	1800.00	1800.00				MinPts	
	40.44	32.25	21.18	8.19	2.16	MAS = 9.83 (m)	1890.00	1889.99				MinPt-EOU	
	41.61	32.25	21.60	9.36	2.14	MAS = 9.83 (m)	1970.00	1969.90				MinPt-SF	
	146.71	44.90	116.44	101.81	4.98	OSF1.50	2980.00	2953.16	OSF>5.00			Exit Alert	
	1313.24	174.64	1196.48	1138.60	11.33	OSF1.50	10370.00	10035.97				MinPt-SF	
	1319.78	179.91	1199.51	1139.86	11.06	OSF1.50	12990.00	12418.54				MinPt-CtCt	
	1319.80	349.57	1086.42	970.23	5.68	OSF1.50	21890.00	12445.00				MinPt-CtCt	
	1319.82	377.27	1067.98	942.55	5.26	OSF1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 502H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
	40.30	32.50	39.02	7.80	N/A	MAS = 9.91 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	40.30	32.50	39.02	7.80	110118.31	MAS = 9.91 (m)	23.00	23.00				WRP	
	40.30	32.50	28.71	7.80	3.79	MAS = 9.91 (m)	1090.00	1090.00				MinPt-EOU	
	40.30	32.50	24.00	7.80	2.57	MAS = 9.91 (m)	1590.00	1590.00				MinPts	
	40.51	32.50	23.72	8.01	2.50	MAS = 9.91 (m)	1640.00	1640.00				MinPt-EOU	
	41.37	32.50	24.10	8.87	2.48	MAS = 9.91 (m)	1690.00	1690.00				MinPt-SF	
	111.94	34.50	88.61	77.43	4.97	OSF1.50	2350.00	2346.63	OSF>5.00			Exit Alert	
	1847.26	175.94	1729.64	1671.32	15.83	OSF1.50	12270.00	11935.50				MinPt-CtCt	
	1847.48	176.70	1729.36	1670.78	15.76	OSF1.50	12390.00	12051.55				MinPt-EOU	
	1847.69	176.95	1729.40	1670.74	15.74	OSF1.50	12420.00	12079.40				MinPt-ADP	
	1881.01	183.19	1758.56	1697.83	15.48	OSF1.50	12870.00	12384.97				MinPt-SF	
	2056.00	354.32	1819.46	1701.68	8.72	OSF1.50	22100.00	12445.00				MinPt-CtCt	
	2056.02	376.28	1804.84	1679.74	8.21	OSF1.50	22882.83	124					

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
61.55	32.81	42.19	26.74		3.30	MAS = 10.00 (m)	1900.00	1899.98				MinPt-SF	
113.61	35.16	89.84	78.45		4.94	OSF 1.50	2370.00	2366.25	OSF<5.00			Exit Alert	
2105.27	176.22	1987.47	1929.06		18.01	OSF 1.50	11930.00	11595.79				MinPt-SF	
2001.43	307.67	1795.99	1693.76		9.78	OSF 1.50	20420.00	12445.00				MinPt-CtCt	
2001.49	375.46	1750.86	1626.04		8.01	OSF 1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 302H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
72.10	32.81	70.81	39.29		N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
72.10	32.81	70.81	39.29	28551.19		MAS = 10.00 (m)	23.00	23.00				WRP	
72.10	32.81	69.50	39.29	6.87		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
72.10	32.81	56.80	39.29	4.97		MAS = 10.00 (m)	1490.00	1490.00	OSF<5.00			Enter Alert	
71.81	32.81	51.54	39.00	3.67		MAS = 10.00 (m)	1990.00	1989.86				MinPts	
63.40	35.45	39.43	27.95	2.72		OSF 1.50	2394.41	2390.15				MinPt-CtCt	
63.45	35.66	39.35	27.79	2.70		OSF 1.50	2410.00	2405.40				MinPt-EOU	
63.54	35.79	39.35	27.75	2.70		OSF 1.50	2420.00	2415.17				MinPt-ADP	
63.88	36.06	39.51	27.82	2.69		OSF 1.50	2440.00	2434.69				MinPt-SF	
139.39	43.00	110.40	96.39	4.94		OSF 1.50	2900.00	2876.65	OSF>5.00			Exit Alert	
1979.71	175.89	1862.12	1803.82	16.97		OSF 1.50	11110.00	10775.79				MinPts	
1979.71	175.89	1862.12	1803.82	16.97		OSF 1.50	11120.00	10785.79				MinPt-SF	
2262.69	161.14	2154.94	2101.55	21.18		OSF 1.50	13250.00	12445.00				MinPt-CtCt	
2262.70	339.84	2035.81	1922.86	10.01		OSF 1.50	21840.00	12445.00				MinPt-CtCt	
2262.71	369.93	2015.76	1892.78	9.20		OSF 1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 301H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
99.98	32.81	98.70	67.18		N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
99.98	32.81	98.69	67.18	25322.70		MAS = 10.00 (m)	23.00	23.00				WRP	
99.98	32.81	88.35	67.18	9.57		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
97.28	32.81	76.92	64.47	4.97		MAS = 10.00 (m)	2000.00	1999.84	OSF<5.00			Enter Alert	
73.40	50.86	39.17	22.54	2.18		OSF 1.50	3309.66	3268.41				MinPt-CtCt	
74.45	54.14	38.02	20.30	2.07		OSF 1.50	3530.00	3479.11				MinPt-EOU	
75.74	55.69	38.28	20.05	2.05		OSF 1.50	3640.00	3584.30				MinPt-ADP	
77.69	57.33	39.14	20.36	2.04		OSF 1.50	3760.00	3699.06				MinPt-SF	
360.33	179.06	240.63	181.27	3.03		OSF 1.50	10680.00	10345.79				MinPt-SF	
360.21	178.97	240.57	181.24	3.03		OSF 1.50	10700.00	10365.79				MinPts	
360.19	179.11	240.45	181.07	3.02		OSF 1.50	11080.00	10745.79				MinPt-CtCt	
360.18	179.12	240.44	181.07	3.02		OSF 1.50	11090.00	10756.79				MinPts	
468.97	141.72	374.16	327.24	4.99		OSF 1.50	11720.00	11385.79	OSF>5.00			Exit Alert	
1170.26	169.81	1056.72	1000.45	10.39		OSF 1.50	16440.00	12445.00				MinPt-CtCt	
1172.05	175.17	1054.95	996.88	10.08		OSF 1.50	16630.00	12445.00				MinPt-EOU	
1174.28	177.82	1055.40	996.45	9.95		OSF 1.50	16720.00	12445.00				MinPt-ADP	
1170.25	205.97	1032.61	964.29	8.56		OSF 1.50	17830.00	12445.00				MinPt-CtCt	
1170.25	315.09	959.86	855.16	5.58		OSF 1.50	21550.00	12445.00				MinPt-CtCt	
1170.25	351.81	935.38	818.44	5.00		OSF 1.50	22740.00	12445.00	OSF<5.00			Enter Alert	
1170.25	356.25	932.42	814.00	4.94		OSF 1.50	22882.83	12445.00				MinPts	
Coterra Triste Draw 36-25 Federal Com 211H Rev0 mdv 19Oct23 (DefinitivePlan)													Warning Alert
84.84	32.81	83.55	52.03		N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
84.84	32.81	83.55	52.03	29476.23		MAS = 10.00 (m)	23.00	23.00				WRP	
84.84	32.81	73.24	52.03	8.10		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
84.84	32.81	67.03	52.03	4.98		MAS = 10.00 (m)	1740.00	1740.00	OSF<5.00			Enter Alert	
81.35	32.81	59.30	48.54	3.82		MAS = 10.00 (m)	2171.88	2170.84				MinPts	
81.69	33.43	59.07	48.26	3.73		OSF 1.50	2230.00	2228.39				MinPt-EOU	
82.05	33.87	59.15	48.19	3.70		OSF 1.50	2260.00	2258.03				MinPt-ADP	
85.99	36.18	61.54	49.81	3.62		OSF 1.50	2420.00	2415.17				MinPt-SF	
112.30	44.13	82.55	68.17	3.87		OSF 1.50	3010.00	2981.84				MinPt-SF	
235.95	71.48	187.97	164.47	5.00		OSF 1.50	4620.00	4521.46	OSF>5.00			Exit Alert	
919.02	177.04	800.67	741.98	7.82		OSF 1.50	10530.00	10195.79				MinPt-SF	
908.60	172.29	793.41	736.31	7.95		OSF 1.50	10790.00	10455.79				MinPt-ADP	
908.15	171.74	793.33	736.41	7.97		OSF 1.50	10810.00	10475.79				MinPt-EOU	
907.75	170.58	793.70	737.17	8.02		OSF 1.50	10850.00	10515.79				MinPt-CtCt	
1901.60	243.94	1738.65	1657.66	11.73		OSF 1.50	19170.00	12445.00				MinPt-CtCt	
1901.63	355.96	1663.96	1545.64	8.03		OSF 1.50	22882.83	12445.00				MinPts	
30-025-40184 - Cimarex Triste Draw 36 State 1H Gyro+MWD Offt to 13942ft MD (Offset) (DefinitiveSurvey)													Warning Alert
4239.71	32.81	4237.65	4206.91	49737.62		MAS = 10.00 (m)	0.00	0.00				Surface	
4239.70	32.81	4237.63	4206.90	44377.75		MAS = 10.00 (m)	23.00	23.00				WRP	
4235.63	32.81	4225.75	4202.82	535.94		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4235.66	32.81	4225.24	4202.75	494.39		MAS = 10.00 (m)	1180.00	1180.00				MinPts	
4236.13	32.81	4224.12	4203.32	413.08		MAS = 10.00 (m)	1440.00	1440.00				MinPt-EOU	
4236.98	32.81	4223.64	4204.18	365.49		MAS = 10.00 (m)	1650.00	1650.00				MinPts	
4237.21	32.81	4221.40	4204.41	301.42		MAS = 10.00 (m)	2020.00	2019.78				MinPts	
4239.53	32.81	4220.28	4206.72	242.34		MAS = 10.00 (m)	2510.00	2502.75				MinPt-EOU	
451.08	138.47	358.23	312.61	4.93		OSF 1.50	9440.00	9130.74	OSF<5.00			Enter Alert	
209.35	159.64	100.65	49.70	1.99		OSF 1.50	9840.00	9513.88				MinPts	
209.34	159.60	100.62	49.73	1.99		OSF 1.50	9842.36	9516.16				MinPts	
409.89	134.20	315.34	275.69	4.98		OSF 1.50	10200.00	9886.87	OSF>5.00			Exit Alert	
2926.55	130.37	2835.10	2796.16	37.42		OSF 1.50	13680.00	12445.00				MinPts	
2925.60	129.45	2834.76	2796.15	37.70		OSF 1.50	13800.00	12445.00				MinPt-CtCt	
2925.61	129.47	2834.76	2796.14	37.70		OSF 1.50	13810.00	12445.00				MinPts	
2925.68	129.50	2834.82	2796.17	37.68		OSF 1.50	13830.00	12445.00				MinPt-SF	
2923.21	128.22	2833.20	2794.99	38.08		OSF 1.50	13980.00	12445.00				MinPt-CtCt	
2923.24	128.33	2833.16	2794.91	38.04		OSF 1.50	14000.00	12445.00				MinPt-EOU	
2923.29	128.39	2833.17	2794.90	38.01		OSF 1.50	14010.00	12445.00				MinPt-ADP	
2924.10	128.72	2833.79	2795.39	37.89		OSF 1.50	14070.00	12445.00				MinPt-SF	
2928.14	128.19	2838.18	2799.94	38.11		OSF 1.50	14270.00	12445.00				MinPt-SF	
2935.13	127.45	2845.67	2807.68	38.45		OSF 1.50	14590.00	12445.00				MinPt-SF	
2936.29	126.17	2847.64	2810.11	38.94		OSF 1.50	14650.00	12445.00				MinPt-EOU	
2936.31	126.21	2847.65	2810.11	38.93		OSF 1.50	14670.00	12445.00				MinPt-ADP	
2938.09	127.03	2848.90	2811.06	38.65		OSF 1.50	14880.00	12445.00				MinPt-SF	
2941.31	127.57	2851.76	2813.74	38.50		OSF 1.50	15070.00	12445.00				MinPt-SF	
2937.90	127.48	2848.39	2810.42	38.51		OSF 1.50	15280.00	12445.00				MinPt-CtCt	
2938.14	128.08	2848.23	2810.05	38.30		OSF 1.50	15320.00	12445.00				MinPt-EOU	
2938.41	128.39	2848.30	2810.01	38.20		OSF 1.50	15340.00	12445.00				MinPt-ADP	
2941.27	129.99	2850.13	2811.28	37.68		OSF 1.50	15440.00	12445.00				MinPt-SF	
2944.36	130.32	2852.97	2814.04	37.64		OSF 1.50	15630.00	12445.00				MinPt-SF	
2945.45	131.45	2853.30	2814.00	37.30		OSF 1.50	15810.00	12445.00				MinPt-EOU	
2946.41	132.59	2853.50	2813.82	36.95		OSF 1.50	15910.00	12445.00				MinPt-ADP	

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
2956.78	140.68	2858.48	2816.10	34.72		OSF1.50	16560.00	12445.00				MinPt-ADP	
2960.56	143.05	2860.69	2817.51	34.13		OSF1.50	16710.00	12445.00				MinPt-SF	
2960.73	142.62	2861.13	2818.11	34.25		OSF1.50	16730.00	12445.00				MinPt-CtCt	
2960.91	143.70	2860.60	2817.22	33.97		OSF1.50	16790.00	12445.00				MinPt-EOU	
2960.76	144.81	2859.69	2815.94	33.68		OSF1.50	16870.00	12445.00				MinPt-CtCt	
2961.37	146.77	2859.02	2814.61	33.19		OSF1.50	16970.00	12445.00				MinPt-EOU	
2962.22	147.77	2859.19	2814.45	32.95		OSF1.50	17020.00	12445.00				MinPt-ADP	
3239.61	178.50	3116.53	3061.11	29.12		OSF1.50	18390.00	12445.00				MinPt-SF	
6417.80	206.72	6277.76	6211.07	48.07		OSF1.50	22882.83	12445.00				TD	
30-025-40578 - Cimarex Triste Draw 36 State 6H ST01 MWD 10466ft to 15038ft (DefinitiveSurvey)													Warning Alert
3920.80	32.81	3918.79	3888.00	99460.75		MAS = 10.00 (m)	0.00	0.00				Surface	
3920.76	32.81	3918.68	3887.95	38686.11		MAS = 10.00 (m)	23.00	23.00				WRP	
3920.36	32.81	3917.34	3887.55	3758.66		MAS = 10.00 (m)	190.00	190.00				MinPts	
3923.41	32.81	3915.76	3890.60	692.03		MAS = 10.00 (m)	800.00	800.00				MinPt-EOU	
3925.34	32.81	3915.46	3892.53	496.66		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
3927.12	32.81	3915.20	3894.31	386.44		MAS = 10.00 (m)	1380.00	1380.00				MinPt-EOU	
3931.28	32.81	3911.26	3895.48	215.19		MAS = 10.00 (m)	2470.00	2463.91				MinPts	
3932.49	34.25	3909.07	3898.24	181.47		OSF1.50	2850.00	2828.84				MinPt-EOU	
3933.53	35.53	3909.26	3898.00	174.62		OSF1.50	2940.00	2914.91				MinPt-ADP	
4135.38	101.53	4067.15	4033.85	62.06		OSF1.50	7060.00	6854.79				MinPt-SF	
618.30	189.37	491.51	428.92	4.93		OSF1.50	10860.00	10525.79	OSF<5.00			Enter Alert	
420.49	241.31	257.93	179.18	2.64		OSF1.50	11310.00	10975.79				MinPt-SF	
420.48	241.35	257.85	179.13	2.64		OSF1.50	11313.31	10979.10				MinPts	
420.53	241.40	257.75	179.13	2.64		OSF1.50	11320.00	10985.79				MinPt-EOU	
599.05	193.30	465.00	405.75	4.92		OSF1.50	11740.00	11405.79	OSF>5.00			Exit Alert	
1511.42	138.81	1413.15	1372.61	18.41		OSF1.50	13250.00	12445.00				MinPt-ADP	
1511.17	138.52	1413.14	1372.65	18.45		OSF1.50	13280.00	12445.00				MinPt-EOU	
1510.97	138.00	1413.30	1372.97	18.52		OSF1.50	13340.00	12445.00				MinPt-CtCt	
1509.97	134.70	1414.45	1375.27	19.03		OSF1.50	13600.00	12445.00				MinPts	
1509.26	133.51	1414.59	1375.75	19.21		OSF1.50	13720.00	12445.00				MinPt-EOU	
1509.23	133.41	1414.62	1375.82	19.23		OSF1.50	13740.00	12445.00				MinPt-CtCt	
1515.13	128.60	1423.74	1386.53	20.13		OSF1.50	14460.00	12445.00				MinPts	
1495.03	128.15	1403.92	1366.88	19.95		OSF1.50	15040.00	12445.00				MinPt-SF	
1493.22	129.61	1401.13	1363.61	19.67		OSF1.50	15390.00	12445.00				MinPt-CtCt	
1493.46	130.36	1400.89	1363.11	19.54		OSF1.50	15470.00	12445.00				MinPt-EOU	
1493.75	130.68	1400.96	1363.07	19.49		OSF1.50	15500.00	12445.00				MinPt-ADP	
1513.26	139.35	1414.71	1373.91	18.34		OSF1.50	16310.00	12445.00				MinPt-SF	
1510.67	140.30	1411.48	1370.37	18.17		OSF1.50	16440.00	12445.00				MinPt-CtCt	
1511.03	141.55	1411.01	1369.48	17.99		OSF1.50	16480.00	12445.00				MinPt-EOU	
1511.53	142.18	1411.09	1369.34	17.90		OSF1.50	16500.00	12445.00				MinPt-EOU	
1620.34	160.92	1507.78	1459.42	16.59		OSF1.50	17120.00	12445.00				MinPt-SF	
6179.46	190.70	6050.32	5988.76	50.14		OSF1.50	22882.83	12445.00				TD	
MR 35 26 Federal Com 603H R0 mdv 31May23 (DefinitivePlan)													Warning Alert
4210.24	32.81	4208.96	4177.43	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
4210.20	32.81	4208.90	4177.39	623426.36		MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
4210.17	32.81	4208.88	4177.37	1020141.41		MAS = 10.00 (m)	20.00	20.00				MinPt-EOU	
4210.17	32.81	4208.88	4177.36	2787961.37		MAS = 10.00 (m)	23.00	23.00				WRP	
1064.79	177.48	946.14	887.31	9.04		OSF1.50	11900.00	11565.79				MinPts	
709.65	189.29	583.17	520.40	5.65		OSF1.50	12826.53	12367.40				MinPt-CtCt	
709.75	189.53	583.08	520.23	5.64		OSF1.50	12850.00	12377.26				MinPt-EOU	
709.90	189.72	583.10	520.19	5.63		OSF1.50	12870.00	12384.97				MinPt-ADP	
713.98	215.07	570.28	498.92	5.00		OSF1.50	14330.00	12445.00	OSF<5.00			Enter Alert	
715.46	553.51	346.13	161.96	1.94		OSF1.50	22882.83	12445.00				MinPts	
MR 35 26 Federal Com 502H R0 mdv 31May23 (DefinitivePlan)													Warning Alert
4192.03	32.81	4190.74	4159.22	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
4191.98	32.81	4190.69	4159.18	654166.06		MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
4191.96	32.81	4190.67	4159.16	1308785.32		MAS = 10.00 (m)	20.00	20.00				MinPt-EOU	
4191.96	32.81	4190.68	4159.15	9673624.33		MAS = 10.00 (m)	23.00	23.00				WRP	
1592.94	167.51	1480.93	1425.42	14.34		OSF1.50	11740.00	11405.79				MinPt-SF	
1379.75	184.29	1256.56	1195.46	11.28		OSF1.50	12564.37	12203.41				MinPt-CtCt	
1379.80	184.44	1256.51	1195.36	11.27		OSF1.50	12580.00	12215.63				MinPt-EOU	
1379.89	184.54	1256.54	1195.35	11.27		OSF1.50	12590.00	12223.31				MinPt-ADP	
1387.03	186.01	1262.69	1201.02	11.24		OSF1.50	12780.00	12345.32				MinPt-SF	
1401.56	421.27	1120.38	980.29	5.00		OSF1.50	19980.00	12445.00	OSF<5.00			Enter Alert	
1402.27	550.05	1035.24	852.21	3.83		OSF1.50	22882.83	12445.00				MinPts	
New Prospect Cox Federal 35 1H Rev0 mcs 17Apr13 (DefinitivePlan)													Pass
3071.47	32.81	3069.49	3038.66	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
3071.46	32.81	3069.49	3038.66	N/A		MAS = 10.00 (m)	23.00	23.00				WRP	
3071.46	32.81	3060.90	3038.66	357.42		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
890.31	151.31	788.90	739.00	8.90		OSF1.50	10690.00	10355.79				MinPt-CtCt	
890.45	151.66	788.77	738.79	8.89		OSF1.50	10730.00	10395.79				MinPt-EOU	
890.53	151.76	788.77	738.77	8.89		OSF1.50	10740.00	10405.79				MinPt-ADP	
903.13	156.17	798.04	746.96	8.81		OSF1.50	11020.00	10685.79				MinPt-SF	
1694.74	133.31	1600.81	1561.43	21.33		OSF1.50	13290.00	12445.00				MinPts	
1725.73	240.34	1560.40	1485.38	11.40		OSF1.50	17430.00	12445.00				MinPts	
1726.64	240.67	1561.03	1485.96	11.40		OSF1.50	17470.00	12445.00				MinPt-SF	
5737.74	205.46	5596.55	5532.29	44.54		OSF1.50	22882.83	12445.00				TD	
Coterra Gin Slinger 23-14 Federal Com 32H Rev0 kFc 19Dec22 (DefinitivePlan)													Pass
10445.66	32.81	10443.64	10412.85	224999.02		MAS = 10.00 (m)	0.00	0.00				Surface	
10445.66	32.81	10443.56	10412.85	81647.84		MAS = 10.00 (m)	23.00	23.00				WRP	
10189.50	111.14	10084.87	10048.36	139.12		OSF1.50	5550.00	5410.80				MinPt-CtCt	
10160.28	113.40	10084.14	10046.87	136.31		OSF1.50	5700.00	5554.24				MinPt-EOU	
10161.16	114.47	10084.31	10046.69	135.04		OSF1.50	5770.00	5621.18				MinPt-ADP	
10583.50	191.31	10455.42	10392.18	83.67		OSF1.50	10400.00	10065.90				MinPt-SF	
10585.81	192.68	10456.82	10393.13	83.09		OSF1.50	11850.00	11515.79				MinPts	
10586.74	192.72	10457.73	10394.02	83.08		OSF1.50	11990.00	11655.79				MinPt-SF	

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status	
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major			
	1074.63	309.87	867.51	764.75	5.22	OSF1.50	10127.39	9795.02				MinPt-CtCi	Pass	
	11071.62	208.32	10932.24	10863.30	80.29	OSF1.50	22882.83	12445.00				TD		
30-025-40578 - Cimarex Triste Draw 36 State 6H Gyro+MWD Offt to 11368ft MD (DefinitiveSurvey)														
3920.80	32.81	3918.79	3888.00	99460.75		MAS = 10.00 (m)	0.00	0.00				Surface	Pass	
3920.76	32.81	3918.68	3887.95	38686.11		MAS = 10.00 (m)	23.00	23.00				WRP		
3920.36	32.81	3917.34	3887.55	3758.66		MAS = 10.00 (m)	190.00	190.00				MinPts		
3923.41	32.81	3915.76	3890.60	692.03		MAS = 10.00 (m)	800.00	800.00				MinPt-EOU		
3925.34	32.81	3915.46	3892.53	496.66		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU		
3927.12	32.81	3915.20	3894.31	386.44		MAS = 10.00 (m)	1380.00	1380.00				MinPt-EOU		
3931.28	32.81	3911.26	3898.48	215.19		MAS = 10.00 (m)	2470.00	2463.91				MinPts		
3932.49	34.25	3909.07	3898.24	181.47		OSF1.50	2850.00	2828.84				MinPt-EOU		
3933.53	35.53	3909.26	3896.00	174.62		OSF1.50	2940.00	2914.91				MinPt-ADP		
4523.73	148.63	4424.10	4375.10	46.14		OSF1.50	10400.00	10065.90				MinPt-SF		
4514.69	149.62	4414.40	4365.07	45.74		OSF1.50	11570.00	11235.79				MinPt-SF		
4513.94	149.56	4413.69	4364.38	45.75		OSF1.50	11650.00	11315.79				MinPts		
4513.97	149.58	4413.70	4364.39	45.76		OSF1.50	11670.00	11335.79				MinPts		
1178.59	151.08	1071.91	1027.51	13.07		OSF1.50	17016.22	12445.00				MinPt-CtCi		
1179.07	152.58	1071.40	1026.49	12.93		OSF1.50	17050.00	12445.00				MinPt-EOU		
1179.81	153.48	1071.55	1026.34	12.85		OSF1.50	17070.00	12445.00				MinPt-ADP		
1245.84	168.04	1128.15	1077.79	12.20		OSF1.50	17420.00	12445.00				MinPt-SF		
5983.82	180.89	5861.66	5802.93	50.91		OSF1.50	22882.83	12445.00				TD		
30-025-40688 - QUESO STATE 1H - Gyro+MWD to 15507ft - A (DefinitiveSurvey)														
1210.64	32.81	1208.66	1177.83	#####		MAS = 10.00 (m)	0.00	0.00				MinPts		Pass
1210.65	32.81	1208.67	1177.84	652639.86		MAS = 10.00 (m)	23.00	23.00				WRP		
1210.17	32.81	1203.17	1177.36	240.83		MAS = 10.00 (m)	570.00	570.00				MinPts		
1208.11	32.81	1195.93	1175.30	118.27		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU		
1196.04	34.99	1172.13	1161.05	53.92		OSF1.50	2299.95	2297.41				MinPt-CtCi		
1196.40	36.15	1171.71	1160.25	52.10		OSF1.50	2380.00	2376.05				MinPt-EOU		
1196.87	36.73	1171.80	1160.14	51.26		OSF1.50	2420.00	2415.17				MinPt-ADP		
1201.46	126.55	2016.56	1974.91	25.21		OSF1.50	7900.00	7658.07				MinPt-SF		
1218.58	131.79	2097.18	2053.79	25.17		OSF1.50	8250.00	7992.76				MinPt-SF		
2387.19	143.95	2290.68	2243.24	25.14		OSF1.50	9050.00	8757.79				MinPt-SF		
2485.14	150.49	2384.28	2334.66	25.02		OSF1.50	9450.00	9140.30				MinPt-SF		
2626.27	159.53	2519.38	2466.74	24.93		OSF1.50	10110.00	9777.85				MinPt-SF		
2651.89	161.32	2543.81	2490.58	24.89		OSF1.50	10360.00	10026.00				MinPt-SF		
2661.03	161.46	2552.85	2499.57	24.96		OSF1.50	10750.00	10415.79				MinPt-SF		
3105.52	153.60	3002.62	2951.92	30.61		OSF1.50	13300.00	12445.00				MinPt-SF		
3137.72	164.97	3027.25	2972.76	28.78		OSF1.50	14070.00	12445.00				MinPt-ADP		
3141.27	171.24	3026.61	2970.03	27.75		OSF1.50	14340.00	12445.00				MinPt-EOU		
3142.90	173.26	3026.89	2969.64	27.43		OSF1.50	14430.00	12445.00				MinPt-ADP		
3120.75	222.43	2971.96	2898.32	21.18		OSF1.50	15960.00	12445.00				MinPt-CtCi		
3123.05	228.52	2970.20	2894.53	20.63		OSF1.50	16160.00	12445.00				MinPt-EOU		
3125.63	231.64	2970.70	2893.98	20.36		OSF1.50	16260.00	12445.00				MinPt-ADP		
3132.29	248.13	2966.37	2884.16	19.04		OSF1.50	16670.00	12445.00				MinPt-EOU		
3133.97	250.14	2966.71	2883.83	18.90		OSF1.50	16740.00	12445.00				MinPt-ADP		
3143.62	280.03	2956.44	2863.60	16.92		OSF1.50	17450.00	12445.00				MinPts		
3168.24	284.85	2977.84	2883.39	16.70		OSF1.50	17790.00	12445.00				MinPt-SF		
6327.15	257.80	6154.79	6069.35	37.02		OSF1.50	22882.83	12445.00				TD		
30-025-21081 - BRINNINSTOOL P UNIT 1 - INC Only to 17649ft - P&A (DefinitiveSurvey)														
1241.41	32.81	1239.44	1208.61	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	Pass	
1241.41	32.81	1239.36	1208.61	16366.21		MAS = 10.00 (m)	23.00	23.00				WRP		
1241.41	112.13	1166.07	1129.28	16.85		OSF1.50	1800.00	1800.00				MinPt-CtCi		
1244.31	121.32	1162.84	1122.99	15.59		OSF1.50	1930.00	1929.96				MinPt-EOU		
1247.60	125.35	1163.44	1122.28	15.12		OSF1.50	1990.00	1989.86				MinPt-ADP		
2533.13	414.92	2255.97	2118.20	9.19		OSF1.50	6680.00	6491.40				MinPt-SF		
2987.82	804.69	2450.86	2183.13	5.58		OSF1.50	14430.00	12445.00				MinPts		
2987.85	804.72	2450.87	2183.13	5.58		OSF1.50	14440.00	12445.00				MinPt-ADP		
2988.01	804.79	2450.99	2183.23	5.59		OSF1.50	14460.00	12445.00				MinPt-SF		
8969.70	814.97	8425.89	8154.73	16.54		OSF1.50	22882.83	12445.00				TD		
30-025-40665 - Cimarex Triste Draw 36 State 2H MWD Offt to 13691ft (DefinitiveSurvey)														
4031.35	32.81	4029.35	3998.54	199034.16		MAS = 10.00 (m)	0.00	0.00				Surface		Pass
4031.34	32.81	4029.29	3998.53	54512.16		MAS = 10.00 (m)	23.00	23.00				WRP		
4031.19	32.81	4028.26	3998.38	4234.85		MAS = 10.00 (m)	190.00	190.00				MinPts		
4029.67	32.81	4020.35	3996.86	548.99		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU		
4027.09	32.81	4012.69	3994.29	318.44		MAS = 10.00 (m)	1840.00	1840.00				MinPts		
4027.32	32.81	4012.46	3994.51	307.28		MAS = 10.00 (m)	1910.00	1909.97				MinPt-EOU		
1302.42	199.42	1168.63	1103.00	9.90		OSF1.50	9821.00	9495.53				MinPt-CtCi		
1303.45	202.18	1167.59	1101.27	9.80		OSF1.50	9890.00	9562.35				MinPt-EOU		
1303.77	202.54	1167.64	1101.23	9.79		OSF1.50	9900.00	9572.06				MinPt-ADP		
1311.84	206.31	1172.76	1105.53	9.72		OSF1.50	10030.00	9699.10				MinPt-SF		
2796.42	156.79	2687.34	2639.63	29.16		OSF1.50	13470.00	12445.00				MinPt-CtCi		
2796.52	157.02	2687.30	2639.50	29.11		OSF1.50	13490.00	12445.00				MinPt-EOU		
2796.63	157.13	2687.34	2639.49	29.08		OSF1.50	13500.00	12445.00				MinPt-ADP		
2799.17	158.19	2689.24	2640.97	28.88		OSF1.50	13590.00	12445.00				MinPt-SF		
2816.58	148.66	2713.06	2667.92	31.05		OSF1.50	13980.00	12445.00				MinPt-SF		
2880.27	138.35	2783.60	2741.92	34.39		OSF1.50	15040.00	12445.00				MinPt-SF		
2887.43	132.67	2794.46	2754.75	36.19		OSF1.50	15470.00	12445.00				MinPt-SF		
2882.73	133.05	2789.51	2749.68	36.02		OSF1.50	15650.00	12445.00				MinPt-SF		
2830.81	148.05	2727.62	2682.76	31.40		OSF1.50	17040.00	12445.00				MinPt-CtCi		
2831.28	149.67	2727.02	2681.61	31.03		OSF1.50	17100.00	12445.00				MinPt-EOU		
2832.18	150.75	2727.20	2681.43	30.79		OSF1.50	17140.00	12445.00				MinPt-ADP		
3094.66	181.28	2969.73	2913.39	27.35		OSF1.50	18370.00	12445.00				MinPt-SF		
6246.63	210.38	6104.04	6036.25	46.02		OSF1.50	22882.83	12445.00				TD		
Cimarex Triste Draw 25 Fed Com #19H Rev0 RM 31Jul19 (DefinitivePlan)														
4672.09	32.81	4670.11	4639.28	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	Pass	
4672.09	32.81	4670.06	4639.28	95973.44		MAS = 10.00 (m)	23.00	23.00				WRP		
4672.09	32.81	4661.45	4639.28	539.36		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU		
4672.09	32.81	4655.73	4639.28	319.94		MAS = 10.00 (m)	1800.00	1800.00				MinPts		
4672.52	32.81	4655.34	4639.71	303.06		MAS = 10.00 (m)	1900.00	1899.98				MinPt-EOU		
5641.88	156.52	5536.98	5485.36	54.63		OSF1.50	10910.00	10575.79				MinPt-SF		
5641.89	156.54	5536.96	5485.34	54.63		OSF1.50	10920.00	10585.79				MinPts		
1428.53	290.15	1229.24	1138.38	7.76		OSF1.50	22882.83	12445.00				MinPts		
30-025-40667 - Cimarex Triste Draw 36 State 5H Gyro+MWD Offt to 13910ft MD (DefinitiveSurvey)														
3761.16	32.81	3759.13	3728.36	67559.56		MAS = 10.00 (m)	0.00	0.00				Surface		Pass
3761.03	32.81	3758.91	3728.22	26668.65		MAS = 10.00 (m)	23.00	23.00				WRP		
3752.89	32.81	3742.78	3720.08	461.55		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU		

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	3752.80	32.81	3742.53	3719.99	441.01	MAS = 10.00 (m)	1150.00	1150.00				MinPts	
	3752.81	32.81	3741.05	3720.00	375.29	MAS = 10.00 (m)	1380.00	1380.00				MinPts	
	3753.07	32.81	3740.78	3720.26	356.38	MAS = 10.00 (m)	1460.00	1460.00				MinPt-EOU	
	3753.12	32.81	3740.03	3720.32	331.08	MAS = 10.00 (m)	1580.00	1580.00				MinPts	
	3753.28	32.81	3738.57	3720.48	289.69	MAS = 10.00 (m)	1820.00	1820.00				MinPts	
	3753.40	32.81	3738.49	3720.59	285.37	MAS = 10.00 (m)	1850.00	1850.00				MinPt-EOU	
	1765.40	320.43	1551.24	1444.97	8.30	OSF1.50	9564.84	9250.12				MinPt-CtCt	
	1765.98	322.36	1550.53	1443.61	8.25	OSF1.50	9610.00	9293.31				MinPt-EOU	
	1766.60	323.16	1550.62	1443.44	8.23	OSF1.50	9630.00	9312.43				MinPt-ADP	
	1783.40	329.06	1563.48	1454.34	8.16	OSF1.50	9830.00	9504.22				MinPt-SF	
	3201.28	165.47	3086.88	3035.82	31.22	OSF1.50	13660.00	12445.00				MinPt-ADP	
	3201.13	165.29	3086.85	3035.85	31.26	OSF1.50	13670.00	12445.00				MinPt-EOU	
	3195.79	159.33	3085.47	3036.46	32.48	OSF1.50	13930.00	12445.00				MinPt-ADP	
	3187.50	153.03	3081.41	3034.47	33.83	OSF1.50	14350.00	12445.00				MinPt-ADP	
	3187.44	152.97	3081.39	3034.47	33.84	OSF1.50	14360.00	12445.00				MinPt-EOU	
	3187.28	152.42	3081.58	3034.85	33.97	OSF1.50	14430.00	12445.00				MinPt-CtCt	
	3183.78	147.52	3081.36	3036.27	35.17	OSF1.50	14720.00	12445.00				MinPts	
	3165.65	140.77	3067.68	3024.88	36.83	OSF1.50	15130.00	12445.00				MinPt-SF	
	3159.08	141.09	3060.92	3017.99	36.65	OSF1.50	15460.00	12445.00				MinPts	
	3158.35	140.86	3060.35	3017.49	36.70	OSF1.50	15630.00	12445.00				MinPt-CtCt	
	3158.47	141.24	3060.22	3017.23	36.59	OSF1.50	15670.00	12445.00				MinPt-EOU	
	3158.71	141.53	3060.27	3017.18	36.51	OSF1.50	15700.00	12445.00				MinPt-ADP	
	3159.97	142.25	3061.06	3017.72	36.32	OSF1.50	15780.00	12445.00				MinPt-SF	
	3161.61	142.34	3062.64	3019.28	36.31	OSF1.50	15860.00	12445.00				MinPt-SF	
	3160.59	141.76	3061.98	3018.83	36.48	OSF1.50	16190.00	12445.00				MinPt-CtCt	
	3160.97	142.81	3061.66	3018.16	36.19	OSF1.50	16270.00	12445.00				MinPt-EOU	
	3161.18	143.08	3061.70	3018.10	36.12	OSF1.50	16290.00	12445.00				MinPts	
	3156.22	141.75	3057.59	3014.47	36.46	OSF1.50	16460.00	12445.00				MinPt-SF	
	3146.63	146.89	3044.57	2999.74	34.95	OSF1.50	16780.00	12445.00				MinPt-CtCt	
	3147.11	148.37	3044.08	2998.74	34.57	OSF1.50	16840.00	12445.00				MinPt-EOU	
	3147.93	149.36	3044.24	2998.57	34.33	OSF1.50	16880.00	12445.00				MinPt-ADP	
	3485.35	184.97	3358.32	3300.38	29.98	OSF1.50	18420.00	12445.00				MinPt-SF	
	6554.06	215.21	6408.34	6338.85	47.11	OSF1.50	22882.83	12445.00				TD	
30-025-40343 - Cimarex Triste Draw 36 State 4H Gyro+MWD Off to 15427ft MD (Offset) (Definitive Survey)													Pass
	3754.29	32.81	3752.22	3721.47	50750.50	MAS = 10.00 (m)	0.00	0.00				MinPts	
	3754.30	32.81	3752.15	3721.49	21800.58	MAS = 10.00 (m)	23.00	23.00				WRP	
	3754.48	32.81	3752.04	3721.68	8121.35	MAS = 10.00 (m)	80.00	80.00				MinPt-EOU	
	3751.54	32.81	3742.07	3718.73	500.97	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	3750.77	32.81	3740.01	3717.97	416.61	MAS = 10.00 (m)	1310.00	1310.00				MinPts	
	3752.69	32.81	3738.34	3719.88	297.96	MAS = 10.00 (m)	1820.00	1820.00				MinPt-EOU	
	1976.93	293.37	1780.33	1683.57	10.20	OSF1.50	11280.00	10945.79				MinPt-SF	
	1976.77	293.49	1780.02	1683.29	10.20	OSF1.50	11305.08	10970.87				MinPt-CtCt	
	1976.78	293.51	1780.00	1683.27	10.20	OSF1.50	11310.00	10975.79				MinPt-ADP	
	1976.83	293.54	1780.00	1683.29	10.20	OSF1.50	11320.00	10985.79				MinPt-EOU	
	2443.45	196.09	2308.78	2247.35	19.79	OSF1.50	13800.00	12445.00				MinPt-ADP	
	2443.27	195.88	2308.74	2247.39	19.82	OSF1.50	13810.00	12445.00				MinPt-EOU	
	2441.27	192.87	2308.76	2248.39	20.12	OSF1.50	13930.00	12445.00				MinPt-EOU	
	2431.78	176.65	2310.06	2255.13	22.03	OSF1.50	14480.00	12445.00				MinPts	
	2428.42	173.24	2308.96	2255.18	22.47	OSF1.50	14580.00	12445.00				MinPt-ADP	
	2422.78	170.53	2305.13	2252.25	22.80	OSF1.50	14720.00	12445.00				MinPts	
	2410.83	164.32	2297.30	2246.51	23.62	OSF1.50	15030.00	12445.00				MinPts	
	2377.30	152.21	2271.69	2225.09	25.37	OSF1.50	15370.00	12445.00				MinPt-SF	
	2305.56	153.90	2198.82	2151.65	24.31	OSF1.50	16350.00	12445.00				MinPt-SF	
	2304.01	155.20	2196.41	2148.81	24.07	OSF1.50	16510.00	12445.00				MinPt-CtCt	
	2304.31	156.07	2196.14	2148.24	23.92	OSF1.50	16560.00	12445.00				MinPt-EOU	
	2304.74	156.60	2196.22	2148.14	23.84	OSF1.50	16590.00	12445.00				MinPt-ADP	
	2345.68	166.75	2230.52	2178.94	22.62	OSF1.50	17190.00	12445.00				MinPt-SF	
	2485.94	182.64	2360.47	2303.30	21.64	OSF1.50	17860.00	12445.00				MinPt-SF	
	6144.91	203.30	6007.69	5941.60	46.46	OSF1.50	22882.83	12445.00				TD	
30-025-41150 - TRISTE DRAW 25 FEDERAL COM 3H - MWD to 15359ft - A (Definitive Survey)													Pass
	4478.55	32.81	4476.57	4445.74	1182004.42	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4478.63	32.81	4476.60	4445.82	85712.54	MAS = 10.00 (m)	23.00	23.00				WRP	
	4488.18	32.81	4479.59	4455.38	678.60	MAS = 10.00 (m)	740.00	740.00				MinPt-EOU	
	4490.09	32.81	4477.84	4457.28	436.91	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4489.89	32.81	4475.27	4457.08	349.14	MAS = 10.00 (m)	1350.00	1350.00				MinPts	
	4489.75	32.81	4470.55	4456.95	257.20	MAS = 10.00 (m)	1810.00	1810.00				MinPts	
	4490.10	32.81	4470.23	4457.30	247.83	MAS = 10.00 (m)	1880.00	1879.99				MinPt-EOU	
	5778.81	175.75	5661.10	5603.06	49.76	OSF1.50	10770.00	10435.79				MinPts	
	5778.82	175.76	5661.10	5603.06	49.76	OSF1.50	10780.00	10445.79				MinPt-ADP	
	5779.56	175.83	5661.80	5603.73	49.75	OSF1.50	10880.00	10545.79				MinPt-SF	
	2223.89	212.94	2081.43	2010.95	15.77	OSF1.50	19200.00	12445.00				MinPt-CtCt	
	2205.84	271.91	2024.06	1933.93	12.23	OSF1.50	21151.64	12445.00				MinPt-CtCt	
	2207.50	277.82	2021.78	1929.68	11.98	OSF1.50	21330.00	12445.00				MinPt-EOU	
	2209.99	280.81	2022.28	1929.18	11.86	OSF1.50	21420.00	12445.00				MinPt-ADP	
	2207.52	327.49	1988.69	1880.03	10.15	OSF1.50	22660.00	12445.00				MinPt-CtCt	
	2207.83	328.56	1988.29	1879.27	10.12	OSF1.50	22700.00	12445.00				MinPt-EOU	
	2208.26	329.06	1988.38	1879.19	10.11	OSF1.50	22720.00	12445.00				MinPt-ADP	
	2218.45	332.55	1996.25	1885.90	10.05	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-42102 - Cimarex Triste Draw 25 Federal Com 8H MWD Off to 14100ft (Definitive Survey)													Pass
	4740.29	32.81	4738.31	4707.48	N/A	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4740.30	32.81	4738.27	4707.49	81096.73	MAS = 10.00 (m)	23.00	23.00				WRP	
	4740.47	32.81	4738.20	4707.66									

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	2615.91	277.49	2430.42	2338.42	14.21	OSF1.50	22720.00	12445.00				MinPt-ADP	
	2625.15	281.41	2437.05	2343.74	14.06	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-42082 - Cimarex Triste Draw 25 Federal Com 10H MWD Off to 14126ft (DefinitiveSurvey)													Pass
	4740.29	32.81	4738.31	4707.48	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4740.28	32.81	4738.20	4707.47	49522.34	MAS = 10.00 (m)	23.00	23.00				WRP	
	4731.18	32.81	4718.70	4698.37	450.53	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4728.91	32.81	4712.31	4696.11	318.54	MAS = 10.00 (m)	1550.00	1550.00				MinPts	
	4729.52	32.81	4710.44	4696.72	272.94	MAS = 10.00 (m)	1820.00	1820.00				MinPt-EOU	
	5734.33	174.30	5617.59	5560.03	49.80	OSF1.50	10360.00	10026.00				MinPt-SF	
	2685.25	174.37	2568.54	2510.92	23.29	OSF1.50	18660.00	12445.00				MinPt-CtCt	
	2685.87	176.14	2567.94	2509.73	23.06	OSF1.50	18730.00	12445.00				MinPt-EOU	
	2686.74	177.16	2568.14	2509.58	22.93	OSF1.50	18770.00	12445.00				MinPt-ADP	
	2695.58	181.46	2574.11	2514.13	22.46	OSF1.50	18960.00	12445.00				MinPt-SF	
	2696.52	182.24	2574.62	2514.27	22.37	OSF1.50	19030.00	12445.00				MinPt-EOU	
	2697.65	183.63	2574.73	2514.02	22.21	OSF1.50	19090.00	12445.00				MinPt-ADP	
	2698.95	184.99	2575.13	2513.97	22.05	OSF1.50	19160.00	12445.00				MinPt-ADP	
	2698.27	188.20	2572.30	2510.07	21.67	OSF1.50	19320.00	12445.00				MinPt-CtCt	
	2685.24	208.77	2545.56	2476.47	19.42	OSF1.50	20193.25	12445.00				MinPt-CtCt	
	2686.20	211.59	2544.64	2474.61	19.17	OSF1.50	20300.00	12445.00				MinPt-EOU	
	2687.55	213.16	2544.94	2474.39	19.04	OSF1.50	20360.00	12445.00				MinPt-ADP	
	2692.93	230.84	2538.54	2462.09	17.60	OSF1.50	21060.00	12445.00				MinPt-CtCt	
	2694.32	235.97	2536.51	2458.35	17.23	OSF1.50	21250.00	12445.00				MinPt-EOU	
	2696.34	238.41	2536.90	2457.94	17.06	OSF1.50	21340.00	12445.00				MinPt-ADP	
	2702.62	251.04	2534.76	2451.58	16.24	OSF1.50	21810.00	12445.00				MinPt-CtCt	
	2703.55	253.84	2533.83	2449.72	16.06	OSF1.50	21910.00	12445.00				MinPt-EOU	
	2687.99	274.53	2504.47	2413.46	14.76	OSF1.50	22650.00	12445.00				MinPt-CtCt	
	2688.38	275.94	2503.92	2412.44	14.69	OSF1.50	22700.00	12445.00				MinPt-EOU	
	2689.07	276.76	2504.06	2412.31	14.65	OSF1.50	22730.00	12445.00				MinPt-ADP	
	2697.73	280.65	2510.12	2417.07	14.49	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-47637 - WILD SALSA FED COM 323H - MWD to 23192ft - A (DefinitiveSurvey)													Pass
	8872.23	32.81	8870.20	8839.42	171628.66	MAS = 10.00 (m)	0.00	0.00				MinPts	
	8872.31	32.81	8870.23	8839.50	86084.28	MAS = 10.00 (m)	23.00	23.00				WRP	
	8875.16	32.81	8862.38	8842.36	819.11	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	8870.61	32.81	8850.75	8837.81	489.97	MAS = 10.00 (m)	1840.00	1840.00				MinPts	
	8870.82	32.81	8850.55	8838.02	479.09	MAS = 10.00 (m)	1880.00	1879.99				MinPt-EOU	
	8916.77	40.77	8889.00	8876.00	342.84	OSF1.50	2490.00	2483.35				MinPts	
	9848.19	137.23	9756.16	9710.96	108.91	OSF1.50	7880.00	7638.94				MinPt-ADP	
	10168.79	170.87	10054.33	9997.91	90.10	OSF1.50	9726.51	9404.73				MinPt-ADP	
	10214.06	188.53	10087.83	10025.53	81.95	OSF1.50	11550.00	11215.79				MinPt-CtCt	
	10214.06	188.72	10087.71	10025.34	81.87	OSF1.50	11580.00	11245.79				MinPt-EOU	
	10214.08	188.73	10087.71	10025.34	81.87	OSF1.50	11590.00	11255.79				MinPt-ADP	
	10225.20	191.86	10096.75	10033.33	80.61	OSF1.50	12100.00	11765.79				MinPts	
	10226.15	191.89	10097.68	10034.26	80.60	OSF1.50	12160.00	11825.79				MinPt-SF	
	2691.44	297.85	2492.38	2393.60	13.62	OSF1.50	22882.83	12445.00				MinPts	
Cimarex Triste Draw 25 Federal #3H Pilot Gyro-MWD Off to 10322.56ft MD (DefinitiveSurvey)													Pass
	4478.55	32.81	4476.57	4445.75	1176012.68	MAS = 10.00 (m)	0.00	0.00				MinPts	
	4478.63	32.81	4476.61	4445.82	117322.68	MAS = 10.00 (m)	23.00	23.00				WRP	
	4487.53	32.81	4481.06	4454.73	997.23	MAS = 10.00 (m)	670.00	670.00				MinPt-EOU	
	4490.06	32.81	4480.44	4457.25	587.50	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4489.81	32.81	4478.43	4457.00	466.80	MAS = 10.00 (m)	1360.00	1360.00				MinPts	
	4489.65	32.81	4475.14	4456.84	352.09	MAS = 10.00 (m)	1810.00	1810.00				MinPts	
	4489.82	32.81	4474.98	4457.01	343.05	MAS = 10.00 (m)	1860.00	1860.00				MinPt-EOU	
	5774.73	139.19	5681.36	5635.53	62.99	OSF1.50	10400.00	10065.90				MinPt-SF	
	5779.38	140.01	5685.46	5639.36	62.67	OSF1.50	10640.00	10305.79				MinPts	
	2719.34	170.90	2601.14	2548.44	25.68	OSF1.50	18050.32	12445.00				MinPt-CtCt	
	2719.99	172.77	2600.55	2547.22	25.38	OSF1.50	18110.00	12445.00				MinPt-EOU	
	2720.81	173.70	2600.75	2547.11	25.24	OSF1.50	18140.00	12445.00				MinPt-ADP	
	2886.34	196.90	2751.03	2689.44	23.33	OSF1.50	19017.89	12445.00				MinPt-SF	
	5545.08	213.01	5400.74	5332.06	40.32	OSF1.50	22882.83	12445.00				TD	
30-025-31929 - TRISTE DRAW 36 STATE 001 - INC Only to 9150ft - P&G (DefinitiveSurvey)													Pass
	2792.41	32.81	2790.40	2759.60	99199.29	MAS = 10.00 (m)	0.00	0.00				Surface	
	2792.41	32.81	2790.00	2759.60	6451.98	MAS = 10.00 (m)	23.00	23.00				WRP	
	2725.13	251.01	2557.20	2474.11	16.39	OSF1.50	4309.61	4224.64				MinPt-CtCt	
	2774.10	396.97	2508.91	2377.13	10.52	OSF1.50	6080.00	5917.63				MinPt-EOU	
	2803.75	432.72	2514.74	2371.04	9.75	OSF1.50	6560.00	6376.65				MinPt-ADP	
	3111.44	619.55	2697.87	2491.89	7.55	OSF1.50	9440.00	9130.74				MinPt-SF	
	3322.38	148.67	3222.77	3173.71	33.85	OSF1.50	15730.00	12445.00				MinPt-CtCt	
	3323.18	150.42	3222.39	3172.75	33.46	OSF1.50	15800.00	12445.00				MinPt-EOU	
	3327.96	155.88	3223.54	3172.08	32.32	OSF1.50	15920.00	12445.00				MinPt-ADP	
	4532.23	451.98	4230.42	4080.26	15.09	OSF1.50	18810.00	12445.00				MinPt-SF	
	7889.20	582.90	7500.10	7306.30	20.35	OSF1.50	22882.83	12445.00				TD	
30-025-43998 - Cimarex Triste Draw 25 Federal 12H MWD Off to 14078ft (DefinitiveSurvey)													Pass
	4633.06	32.81	4631.02	4600.25	79485.52	MAS = 10.00 (m)	0.00	0.00				Surface	
	4633.02	32.81	4630.89	4600.21	29921.46	MAS = 10.00 (m)	23.00	23.00				WRP	
	4621.89	32.81	4609.53	4589.09	444.82	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	4619.40	32.81	4604.42	4586.59	349.42	MAS = 10.00 (m)	1400.00	1400.00				MinPts	
	4621.62	32.81	4603.45	4588.82	281.40	MAS = 10.00 (m)	1750.00	1750.00				MinPt-EOU	
	5104.83	90.98	5043.64	5013.85	85.66	OSF1.50	5450.00	5315.17				MinPt-ADP	
	5867.08	172.48	5751.56	5694.60	51.49	OSF1.50	10300.00	9966.22				MinPt-SF	
	2839.00	177.67	2720.05	2661.33	24.16	OSF1.50	18760.00	12445.00				MinPt-CtCt	
	2839.62	179.67	2719.35	2659.96	23.89	OSF1.50	18840.00	12445.00				MinPt-EOU	
	2840.65	180.89	2719.56	2659.76	23.74	OSF1.50	18890.00	12445.00				MinPt-ADP	
	2843.73	183.11	2721.16	2660.63	23.48	OSF1.50	18980.00	12445.00				MinPt-SF	
	2846.20	185.48	2722.04	2660.72	23.19	OSF1.50	19130.00	12445.00				MinPt-EOU	
	2847.24	186.70	2722.27										

Offset Trajectory	Separation			Allow	Sep.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status		
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.		MD (ft)	TVD (ft)		Minor	Major				
Cimarex Diamondtall 23 Federal 8H MWD Surveys to 14264ft (DefinitiveSurvey)	2847.11	225.14	2696.52	2621.97	19.09	OSF 1.50	20850.00	12445.00				MinPt-CiCi	Pass		
	2834.27	245.37	2670.19	2588.90	17.42	OSF 1.50	21627.14	12445.00				MinPt-CiCi			
	2835.45	249.27	2668.76	2586.17	17.16	OSF 1.50	21770.00	12445.00				MinPt-EOU			
	2836.59	250.63	2669.00	2585.95	17.07	OSF 1.50	21820.00	12445.00				MinPt-ADP			
	2836.41	264.18	2659.80	2572.24	16.19	OSF 1.50	22320.00	12445.00				MinPt-CiCi			
	2837.36	266.96	2658.89	2570.40	16.02	OSF 1.50	22420.00	12445.00				MinPt-EOU			
	2838.28	268.05	2659.08	2570.23	15.96	OSF 1.50	22460.00	12445.00				MinPt-ADP			
	2843.76	275.00	2659.92	2568.76	15.59	OSF 1.50	22710.00	12445.00				MinPt-EOU			
	2844.21	275.55	2660.02	2568.67	15.56	OSF 1.50	22730.00	12445.00				MinPt-ADP			
	2852.32	279.45	2665.52	2572.86	15.38	OSF 1.50	22882.83	12445.00				MinPt-SF			
	Cimarex Diamondtall 23 Federal 8H MWD Surveys to 14264ft (DefinitiveSurvey)													Pass	
	14003.75	118.06	13924.39	13885.69	180.93	OSF 1.50	0.00	0.00				Surface		Pass	
	13987.81	118.15	13908.38	13869.65	180.58	OSF 1.50	23.00	23.00				WRP			
10742.44	164.69	10632.11	10577.75	98.79	OSF 1.50	8730.00	8451.78				MinPt-CiCi				
10742.81	165.84	10631.71	10576.97	98.11	OSF 1.50	8820.00	8537.85				MinPt-EOU				
10743.34	166.48	10631.82	10576.86	97.73	OSF 1.50	8870.00	8585.66				MinPt-ADP				
10839.27	184.02	10716.06	10655.26	89.13	OSF 1.50	10400.00	10065.90				MinPt-SF				
2860.63	285.71	2669.66	2574.92	15.09	OSF 1.50	22882.83	12445.00				MinPts				
30-025-47632 - WILD SALSA FED.COM 224H - MWD to 22026ft - A (DefinitiveSurvey)													Pass		
8784.68	32.81	8782.62	8751.87	108448.97	MAS = 10.00 (m)	0.00	0.00				MinPts	Pass			
8784.73	32.81	8782.60	8751.92	61319.52	MAS = 10.00 (m)	23.00	23.00				WRP				
8786.43	32.81	8778.81	8753.82	1557.54	MAS = 10.00 (m)	620.00	620.00				MinPts				
8785.72	32.81	8773.41	8752.91	849.79	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU				
8785.54	32.81	8770.29	8752.74	651.13	MAS = 10.00 (m)	1410.00	1410.00				MinPts				
8786.43	32.81	8769.26	8753.62	570.14	MAS = 10.00 (m)	1640.00	1640.00				MinPt-EOU				
8815.13	35.24	8791.05	8779.89	394.83	OSF 1.50	2180.00	2178.89				MinPts				
8985.73	52.91	8949.87	8932.82	263.46	OSF 1.50	3300.00	3259.17				MinPt-ADP				
10234.24	180.64	10113.28	10053.60	85.73	OSF 1.50	10790.00	10455.79				MinPt-CiCi				
10234.25	180.65	10113.28	10053.60	85.73	OSF 1.50	10800.00	10465.79				MinPts				
10240.01	180.90	10118.87	10059.11	85.68	OSF 1.50	11170.00	10835.79				MinPt-SF				
2939.45	283.53	2749.93	2655.92	15.63	OSF 1.50	22882.83	12445.00				MinPts				
30-025-42198 - Cimarex Triste Draw 25 Federal Com 9H MWD Off to 13793ft (DefinitiveSurvey)													Pass		
4740.29	32.81	4738.31	4707.48	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass			
4740.27	32.81	4738.18	4707.46	43256.05	MAS = 10.00 (m)	23.00	23.00				WRP				
4737.60	32.81	4730.78	4704.79	978.38	MAS = 10.00 (m)	550.00	550.00				MinPts				
4739.06	32.81	4726.93	4706.25	466.92	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU				
4739.06	32.81	4727.05	4706.25	462.50	MAS = 10.00 (m)	1100.00	1100.00				MinPts				
4741.73	32.81	4721.87	4708.93	261.82	MAS = 10.00 (m)	1880.00	1879.99				MinPts				
4742.28	32.81	4721.03	4709.47	243.24	MAS = 10.00 (m)	2020.00	2019.78				MinPt-EOU				
5709.54	171.29	5594.81	5538.25	50.46	OSF 1.50	10100.00	9767.99				MinPt-SF				
2988.53	172.87	2872.78	2815.66	26.14	OSF 1.50	18650.00	12445.00				MinPt-CiCi				
2989.22	175.01	2872.05	2814.21	25.83	OSF 1.50	18740.00	12445.00				MinPt-EOU				
2989.39	175.25	2872.06	2814.14	25.79	OSF 1.50	18750.00	12445.00				MinPt-ADP				
2982.96	182.81	2860.58	2800.14	24.67	OSF 1.50	19130.00	12445.00				MinPt-SF				
2964.13	196.70	2832.49	2767.43	22.77	OSF 1.50	19730.00	12445.00				MinPt-CiCi				
2958.33	207.82	2819.28	2750.51	21.50	OSF 1.50	20188.28	12445.00				MinPt-CiCi				
2960.07	212.46	2817.93	2747.61	21.04	OSF 1.50	20370.00	12445.00				MinPt-EOU				
2961.75	214.52	2818.24	2747.23	20.85	OSF 1.50	20450.00	12445.00				MinPt-ADP				
2964.84	218.28	2815.82	2746.55	20.50	OSF 1.50	20600.00	12445.00				MinPt-EOU				
2967.37	221.87	2815.95	2745.49	20.19	OSF 1.50	20740.00	12445.00				MinPt-EOU				
2969.13	223.97	2819.32	2745.16	20.01	OSF 1.50	20820.00	12445.00				MinPt-ADP				
2974.00	232.61	2818.43	2741.39	19.29	OSF 1.50	21150.00	12445.00				MinPt-EOU				
2978.96	243.09	2816.40	2735.87	18.49	OSF 1.50	21540.00	12445.00				MinPt-EOU				
2985.62	255.99	2814.46	2729.63	17.59	OSF 1.50	22010.00	12445.00				MinPt-EOU				
2987.19	257.89	2814.76	2729.30	17.47	OSF 1.50	22080.00	12445.00				MinPt-ADP				
2990.68	261.51	2815.84	2729.17	17.24	OSF 1.50	22210.00	12445.00				MinPt-ADP				
3010.42	274.44	2826.96	2735.98	16.54	OSF 1.50	22670.00	12445.00				MinPt-ADP				
3020.10	279.92	2832.99	2740.18	16.28	OSF 1.50	22882.83	12445.00				MinPt-SF				
30-025-43997 - Cimarex Triste Draw 25 Federal 11H MWD Off to 13774ft (DefinitiveSurvey)													Pass		
4740.29	32.81	4738.31	4707.48	6024184.63	MAS = 10.00 (m)	0.00	0.00				MinPts		Pass		
4740.31	32.81	4738.26	4707.50	72706.90	MAS = 10.00 (m)	23.00	23.00				WRP				
4742.78	32.81	4732.55	4709.97	574.75	MAS = 10.00 (m)	910.00	910.00				MinPts				
4742.77	32.81	4731.15	4709.97	491.51	MAS = 10.00 (m)	1050.00	1050.00				MinPts				
4742.79	32.81	4730.78	4709.98	472.73	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU				
4744.36	32.81	4728.56	4711.55	337.65	MAS = 10.00 (m)	1510.00	1510.00				MinPt-EOU				
4745.71	32.81	4728.31	4712.90	303.28	MAS = 10.00 (m)	1670.00	1670.00				MinPt-EOU				
5763.17	167.96	5650.66	5595.21	51.96	OSF 1.50	10100.00	9767.99				MinPt-SF				
3030.69	178.90	2910.92	2851.79	25.61	OSF 1.50	18890.00	12445.00				MinPt-CiCi				
3031.66	181.88	2909.90	2849.77	25.20	OSF 1.50	19017.89	12445.00				MinPt-EOU				
3032.44	182.88	2910.03	2849.57	25.07	OSF 1.50	19060.00	12445.00				MinPt-ADP				
3033.40	185.55	2909.20	2847.85	24.71	OSF 1.50	19200.00	12445.00				MinPts				
3030.01	190.42	2902.56	2839.59	24.05	OSF 1.50	19421.95	12445.00				MinPt-CiCi				
3030.83	192.90	2901.73	2837.93	23.74	OSF 1.50	19520.00	12445.00				MinPt-EOU				
3031.18	194.27	2901.15	2836.89	23.58	OSF 1.50	19590.00	12445.00				MinPt-CiCi				
3033.30	201.31	2898.59	2831.99	22.76	OSF 1.50	19880.00	12445.00				MinPt-EOU				
3035.37	203.79	2899.01	2831.58	22.50	OSF 1.50	19980.00	12445.00				MinPt-ADP				
3037.47	205.66	2899.86	2831.81	22.31	OSF 1.50	20060.00	12445.00				MinPt-SF				
3033.01	211.58	2891.46	2821.43	21.65	OSF 1.50	20310.00	12445.00				MinPt-CiCi				
3034.25	215.22	2890.27	2819.03	21.29	OSF 1.50	20450.00	12445.00				MinPt-EOU				
3035.74	217.04	2890.55	2818.70	21.12	OSF 1.50	20520.00	12445.00				MinPt-ADP				
3044.47	229.23	2891.15	2815.24	20.04	OSF 1.50	21000.00	12445.00				MinPt-CiCi				
3045.47	232.21	2890.16	2813.26	19.79	OSF 1.50	21110.00	12445.00				MinPt-EOU				
3046.37	233.28	2890.34	2813.08	19.70	OSF 1.50	21150.00	12445.00				MinPt-ADP				
3046.84	237.19	2888.21	2809.65	19.38	OSF 1.50	21300.00	12445.00				MinPt-CiCi				
3048.25	241.25	2886.91	2807.00	19.06	OSF 1.50	21450.00	12445.00				MinPt-EOU				
3050.07	243.41	2887.30	2806.67	18.90	OSF 1.50	21530.00	12445.00				MinPt-ADP				
3056.50	249.63	2889.55	2806.87	18.47	OSF 1.50	21760.00	12445.00				MinPt-EOU				
3059.49	255.66	2888.55	2803.83	18.05	OSF 1.50	21980.00	12445.00				MinPt-EOU				
3061.33	257.85	2888.93	2803.48	17.90	OSF 1.50	22060.00	12445.00				MinPt-ADP				
3065.74	265.66	2888.14	2800.08	17.40	OSF 1.50	22340.00	12445.00				MinPt-EOU				
3068.17	268.43	2888.72	2799.75	17.23	OSF 1.50	22440.00	12445.00				MinPt-ADP				
3090.96	280.48	2903.48	2810.48	16.61	OSF 1.50	22882.83	12445.00				MinPt-SF				
30-025-44001 - Cimarex Triste Draw 25 Federal 13H MWD to 13778ft MD TD (Surcon Corr) (DefinitiveSurvey)													Pass		
4632.98	32.81	4630.90	4600.17	49909.33	MAS = 10.00 (m)	0.00	0.00				Surface	Pass			
4632.87	32.81	4630.68	4600.07	21823.90	MAS = 10.00 (m)	23.00	23.00				WRP				
4622.21	32.81	4609.76	4589.40	441.37	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU				
4618.92	32.81	4603.45	4586.11	336.88	MAS = 10.00 (m)	1400.00	1440.00				MinPts				

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
4619.27	32.81	4603.10		4586.47	320.36	MAS = 10.00 (m)	1530.00	1530.00				MinPt-EOU	
5870.38	166.30	5758.97		5704.08	53.46	OSF1.50	10000.00	9669.68				MinPt-SF	
3197.66	183.26	3074.99		3014.40	26.38	OSF1.50	19030.00	12445.00				MinPt-CtCt	
3196.78	187.54	3071.26	3009.24	25.76		OSF1.50	19240.00	12445.00				MinPts	
3187.66	197.30	3055.66	2990.39	24.41		OSF1.50	19680.00	12445.00				MinPt-CtCt	
3177.47	213.80	3034.43	2963.66	22.44		OSF1.50	20382.56	12445.00				MinPt-CtCt	
3178.93	218.58	3032.71	2960.35	21.96		OSF1.50	20570.00	12445.00				MinPt-EOU	
3180.44	220.38	3033.02	2960.06	21.79		OSF1.50	20640.00	12445.00				MinPt-ADP	
3183.54	223.13	3034.29	2960.41	21.54		OSF1.50	20750.00	12445.00				MinPt-SF	
3183.67	225.64	3032.74	2958.03	21.30		OSF1.50	20860.00	12445.00				MinPt-CtCt	
3184.68	228.82	3031.64	2955.86	21.00		OSF1.50	20980.00	12445.00				MinPt-EOU	
3187.40	232.92	3031.62	2954.48	20.65		OSF1.50	21140.00	12445.00				MinPt-EOU	
3190.68	237.31	3031.97	2953.37	20.29		OSF1.50	21310.00	12445.00				MinPt-EOU	
3192.22	239.17	3032.28	2953.06	20.14		OSF1.50	21380.00	12445.00				MinPt-ADP	
3195.09	242.28	3033.08	2952.82	19.90		OSF1.50	21500.00	12445.00				MinPt-EOU	
3196.87	244.41	3033.43	2952.46	19.73		OSF1.50	21580.00	12445.00				MinPt-ADP	
3200.72	249.39	3033.96	2951.33	19.36		OSF1.50	21770.00	12445.00				MinPt-CtCt	
3203.02	255.89	3031.92	2947.12	18.88		OSF1.50	22010.00	12445.00				MinPt-EOU	
3206.47	259.96	3032.66	2946.51	18.60		OSF1.50	22160.00	12445.00				MinPt-ADP	
3216.60	275.17	3032.66	2941.43	17.62		OSF1.50	22710.00	12445.00				MinPt-EOU	
3217.25	275.96	3032.77	2941.29	17.57		OSF1.50	22740.00	12445.00				MinPt-ADP	
3224.16	279.56	3037.29	2944.60	17.38		OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-47640 - WILD SALSA FED COM 404H - MWD to 23199ft - A (DefinitiveSurvey)													Pass
8876.64	32.81	8874.65	8843.83	880814.27		MAS = 10.00 (m)	0.00	0.00				MinPts	
8876.76	32.81	8874.73	8843.95	174842.65		MAS = 10.00 (m)	23.00	23.00				WRP	
8903.14	32.81	8889.27	8870.33	735.33		MAS = 10.00 (m)	1310.00	1310.00				MinPt-EOU	
8910.58	32.81	8892.22	8877.77	536.45		MAS = 10.00 (m)	1760.00	1760.00				MinPt-EOU	
8912.89	32.81	8891.46	8880.08	453.18		MAS = 10.00 (m)	1930.00	1929.96				MinPt-EOU	
9235.44	61.79	9193.66	9173.65	230.75		OSF1.50	3880.00	3813.81				MinPt-ADP	
10572.78	175.07	10455.53	10397.71	91.42		OSF1.50	10370.00	10035.97				MinPts	
10566.98	182.53	10444.75	10384.45	87.60		OSF1.50	11430.00	11095.79				MinPt-CtCt	
10567.02	182.65	10444.72	10384.37	87.54		OSF1.50	11470.00	11135.79				MinPt-EOU	
10567.04	182.68	10444.72	10384.37	87.53		OSF1.50	11480.00	11145.79				MinPt-ADP	
3294.18	297.53	3095.32	2996.65	16.68		OSF1.50	22806.47	12445.00				MinPt-CtCt	
3294.76	299.28	3094.74	2995.48	16.59		OSF1.50	22880.00	12445.00				MinPt-EOU	
3294.81	299.35	3094.74	2995.46	16.59		OSF1.50	22882.83	12445.00				MinPts	
Cimarex Triste Draw 25 Federal #15H Rev0 RM 22Mar17 (NonDefinitivePlan)													Pass
4633.40	32.81	4631.39	4600.59	208440.27		MAS = 10.00 (m)	0.00	0.00				Surface	
4633.40	32.81	4631.34	4600.59	63163.72		MAS = 10.00 (m)	23.00	23.00				WRP	
4633.40	32.81	4622.74	4600.59	533.69		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4633.40	32.81	4617.02	4600.59	316.87		MAS = 10.00 (m)	1800.00	1800.00				MinPts	
4633.61	32.81	4616.82	4600.80	308.30		MAS = 10.00 (m)	1850.00	1850.00				MinPt-EOU	
6143.66	149.11	6043.31	5994.56	62.98		OSF1.50	10360.00	10026.00				MinPt-SF	
3327.98	267.16	3145.92	3060.79	19.48		OSF1.50	21670.00	12445.00				MinPt-CtCt	
3328.53	300.47	3124.26	3028.06	17.24		OSF1.50	22720.00	12445.00				MinPt-EOU	
3328.96	300.97	3124.35	3027.99	17.21		OSF1.50	22740.00	12445.00				MinPt-ADP	
3335.54	304.31	3128.61	3031.23	17.06		OSF1.50	22882.83	12445.00				MinPt-SF	
Cimarex Triste Draw 25 Federal #14H Rev1 RM 09May19 (DefinitivePlan)													Pass
4574.18	32.81	4572.18	4541.37	216605.63		MAS = 10.00 (m)	0.00	0.00				Surface	
4574.18	32.81	4572.13	4541.37	63315.49		MAS = 10.00 (m)	23.00	23.00				WRP	
4574.18	32.81	4563.62	4541.37	526.50		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4574.18	32.81	4557.80	4541.37	312.69		MAS = 10.00 (m)	1800.00	1800.00				MinPts	
4574.40	32.81	4557.61	4541.59	304.23		MAS = 10.00 (m)	1850.00	1850.00				MinPt-EOU	
5961.52	143.82	5864.46	5817.70	63.71		OSF1.50	10300.00	9966.22				MinPt-SF	
3394.72	278.13	3205.17	3116.59	19.09		OSF1.50	22656.81	12445.00				MinPt-CtCt	
3395.31	279.86	3204.59	3115.46	18.98		OSF1.50	22720.00	12445.00				MinPt-EOU	
3396.00	280.64	3204.72	3115.36	18.93		OSF1.50	22750.00	12445.00				MinPt-ADP	
3402.24	283.98	3208.66	3118.26	18.73		OSF1.50	22882.83	12445.00				MinPt-SF	
Cimarex Triste Draw 25 Federal #14H Rev0 RM 22Mar17 (NonDefinitivePlan)													Pass
4633.20	32.81	4631.19	4600.39	210536.63		MAS = 10.00 (m)	0.00	0.00				Surface	
4633.20	32.81	4631.14	4600.39	63352.97		MAS = 10.00 (m)	23.00	23.00				WRP	
4633.20	32.81	4622.54	4600.39	533.68		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4633.20	32.81	4616.82	4600.39	316.86		MAS = 10.00 (m)	1800.00	1800.00				MinPts	
4633.41	32.81	4616.62	4600.60	308.29		MAS = 10.00 (m)	1850.00	1850.00				MinPt-EOU	
6175.16	146.96	6076.10	6028.20	64.42		OSF1.50	10300.00	9966.22				MinPt-SF	
3509.63	291.74	3311.16	3217.89	18.75		OSF1.50	22657.45	12445.00				MinPt-CtCt	
3510.19	293.29	3310.65	3216.90	18.66		OSF1.50	22720.00	12445.00				MinPt-EOU	
3510.60	293.77	3310.73	3216.83	18.63		OSF1.50	22740.00	12445.00				MinPt-ADP	
3516.86	297.04	3314.73	3219.82	18.46		OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-47639 - WILD SALSA FED COM 093H - MWD to 20738ft - A (DefinitiveSurvey)													Pass
8867.00	32.81	8864.99	8834.19	294626.78		MAS = 10.00 (m)	0.00	0.00				MinPts	
8867.10	32.81	8865.05	8834.29	117906.64		MAS = 10.00 (m)	23.00	23.00				WRP	
8859.64	32.81	8844.53	8826.84	663.19		MAS = 10.00 (m)	1400.00	1400.00				MinPts	
8860.32	32.81	8843.96	8827.51	606.54		MAS = 10.00 (m)	1560.00	1560.00				MinPt-EOU	
8885.23	39.94	8858.01	8845.28	348.97		OSF1.50	2190.00	2188.80				MinPt-EOU	
8885.31	40.03	8858.04	8845.28	348.17		OSF1.50	2200.00	2198.70				MinPt-ADP	
9310.66	81.07	9256.02	9229.59	176.07		OSF1.50	4720.00	4617.09				MinPts	
9494.40	99.09	9427.81	9395.31	146.08		OSF1.50	5680.00	5535.12				MinPts	
9888.73	139.87	9794.95	9748.87	107.27		OSF1.50	7770.00	7533.75				MinPt-ADP	
10354.63	176.83	10236.21	10177.81	88.63		OSF1.50	10360.00	10026.00				MinPt-SF	
3751.92	269.72	3571.61	3482.20	20.97		OSF1.50	22882.83	12445.00				MinPts	
30-025-42081 - Cimarex Triste Draw 25 Federal 7H MWD Off to 14577ft (DefinitiveSurvey)													Pass
4734.99	32.81	4733.00	4702.18	500981.20		MAS = 10.00 (m)	0.00	0.00				MinPts	
4735.06	32.81	4733.03	4702.25	97626.74		MAS = 10.00 (m)	23.00	23.00				WRP	
4736.85	32.81	4733.38	4704.04	3108.70		MAS = 10.00 (m)	260.00	260.00				MinPt-EOU	
4738.66	32.81	4730.22	4705.85	733.73		MAS = 10.00 (m)	950.00	950.00				MinPts	
4738.92	32.81	4729.50	4706.11	636.39		MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
4742.17	32.81	4727.99	4709.36	381.74		MAS = 10.00 (m)	1810.00	1810.00				MinPt-EOU	</

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	3788.95	307.15	3580.33	3481.83	19.18	OSF1.50	22280.00	12445.00				MinPt-CtCt	
	3790.76	344.51	3557.20	3446.25	17.03	OSF1.50	22660.00	12445.00				MinPt-CtCt	
	3790.98	345.18	3556.95	3445.80	17.00	OSF1.50	22700.00	12445.00				MinPt-EOU	
	3791.25	345.51	3556.99	3445.74	16.99	OSF1.50	22720.00	12445.00				MinPt-ADP	
	3797.35	347.91	3561.41	3449.44	16.90	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-08135 - TRISTE-STATE 1 - INC INCO to 5192ft - P&A (DefinitiveSurvey)													Pass
	4260.50	32.81	4258.40	4227.69	36957.95	MAS = 10.00 (m)	0.00	0.00				Surface	
	4260.50	32.81	4258.00	4227.69	8240.62	MAS = 10.00 (m)	23.00	23.00				WRP	
	4260.50	108.15	4187.81	4152.35	60.05	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	4359.29	418.78	4079.59	3940.55	15.67	OSF1.50	5300.00	5171.73				MinPts	
	4359.91	419.24	4079.86	3940.67	15.65	OSF1.50	5310.00	5181.29				MinPt-SF	
	7269.34	149.47	7169.20	7119.88	73.68	OSF1.50	17380.00	12445.00				MinPt-CtCt	
	7270.21	151.81	7168.50	7118.40	72.54	OSF1.50	17490.00	12445.00				MinPt-EOU	
	7271.39	153.21	7168.75	7118.18	71.88	OSF1.50	17550.00	12445.00				MinPt-ADP	
	9118.72	345.70	8887.75	8773.02	39.73	OSF1.50	22882.83	12445.00				MinPt-SF	
30-025-47635 - WILD SALSA FED COM 094H - MWD to 20459ft - A (DefinitiveSurvey)													Pass
	8788.10	32.81	8786.05	8755.29	130326.59	MAS = 10.00 (m)	0.00	0.00				MinPts	
	8788.12	32.81	8786.05	8755.31	95510.52	MAS = 10.00 (m)	10.00	10.00				MinPt-EOU	
	8788.16	32.81	8786.05	8755.35	70661.52	MAS = 10.00 (m)	23.00	23.00				WRP	
	8788.74	32.81	8786.07	8755.93	12708.25	MAS = 10.00 (m)	140.00	140.00				MinPt-EOU	
	8792.23	32.81	8786.82	8759.42	2565.17	MAS = 10.00 (m)	440.00	440.00				MinPt-EOU	
	8796.72	32.81	8784.66	8763.91	872.85	MAS = 10.00 (m)	1090.00	1090.00				MinPt-EOU	
	8798.44	32.81	8783.24	8765.64	654.49	MAS = 10.00 (m)	1440.00	1440.00				MinPt-EOU	
	9931.36	120.40	9850.56	9810.95	125.39	OSF1.50	7200.00	6988.67				MinPt-ADP	
	10563.23	165.34	10452.47	10397.89	96.76	OSF1.50	10360.00	10026.00				MinPt-SF	
	4370.76	273.16	4188.16	4097.63	24.13	OSF1.50	22882.83	12445.00				MinPts	
Estacado Fields #002 (Offset) Plugged SWD Blind Off-5206ft (DefinitiveSurvey)													Pass
	5457.40	32.81	5454.75	5424.59	8136.37	MAS = 10.00 (m)	0.00	0.00				Surface	
	5457.40	32.81	5452.34	5424.59	1771.18	MAS = 10.00 (m)	23.00	23.00				WRP	
	5457.40	540.93	5096.20	4916.47	15.18	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	5638.76	1606.37	4567.31	4032.39	5.27	OSF1.50	5320.00	5190.86				MinPts	
	7380.59	326.13	7161.48	7054.46	34.46	OSF1.50	17360.00	12445.00				MinPt-ADP	
	7288.12	214.06	7143.71	7074.06	52.29	OSF1.50	18040.00	12445.00				MinPt-EOU	
	7258.41	170.64	7142.93	7087.76	65.74	OSF1.50	18700.00	12445.00				MinPt-CtCt	
	7303.75	261.19	7127.92	7042.56	42.75	OSF1.50	19510.00	12445.00				MinPt-EOU	
	7388.91	363.46	7144.92	7025.45	30.90	OSF1.50	20080.00	12445.00				MinPt-ADP	
	8378.68	841.62	7816.04	7537.05	15.01	OSF1.50	22882.83	12445.00				MinPt-SF	
H L Johnston L SR Pre-Ongard Well #001 (Offset) Plugged Oil Blind Off-5151ft (DefinitiveSurvey)													Pass
	8369.68	32.81	8364.98	8336.87	3083.82	MAS = 10.00 (m)	0.00	0.00				Surface	
	8369.68	32.81	8362.57	8336.87	1633.35	MAS = 10.00 (m)	23.00	23.00				WRP	
	8369.68	547.06	8004.39	7822.62	23.02	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	8821.85	1586.61	7763.57	7235.24	8.35	OSF1.50	5230.00	5104.79				MinPt-EOU	
	8823.46	1588.92	7763.65	7234.54	8.34	OSF1.50	5240.00	5114.35				MinPts	
	10336.91	1127.49	9583.91	9209.42	13.80	OSF1.50	14990.00	12445.00				MinPt-SF	
	7987.36	480.91	7275.11	7116.45	23.93	OSF1.50	21999.38	12445.00				MinPt-CtCt	
	7598.16	482.78	7274.65	7115.38	23.84	OSF1.50	22110.00	12445.00				MinPt-EOU	
	7601.49	486.62	7275.43	7114.87	23.66	OSF1.50	22250.00	12445.00				MinPt-ADP	
	7648.55	522.69	7298.46	7125.87	22.14	OSF1.50	22882.83	12445.00				MinPt-SF	

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

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

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



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 well, and any other required information, should be furnished when required by Federal agency offices.

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

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

BLM Point of Contact

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

CONFIDENTIAL

Review and Appeal Rights

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

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TRISTE DRAW 36-25 FEDERAL COM 401H

APD - Geology COAs (Not in Potash or WIPP)

- For at least one well per pad (deepest well within initial development preferred) the record of the drilling rate (ROP) along with the Gamma Ray (GR) and Neutron (CNL) well logs run from TVD to surface in the vertical section of the hole shall be submitted to the BLM office as well as all other logs run on the full borehole 30 days from completion. Any other logs run on the wellbore, excluding cement remediation, should also be sent. Only digital copies of the logs in .TIF or .LAS formats are necessary; paper logs are no longer required. Logs shall be emailed to blm-cfo-geology@doimspp.onmicrosoft.com. 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: LEASE NO.: LOCATION: COUNTY:	Cimarex Energy Company NMNM86154 Section 36, T.23 S., R.32 E., NMPM <div style="border: 1px solid black; padding: 2px;">Lea County, New Mexico ▼</div>
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WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE: ATS/API ID: APD ID: Sundry ID:	Triste Draw 36-25 Federal Com 401H 1207'/S & 2365'/W 100'/N & 330'/W ATS-24-427 10400095895 N/a
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COA

H2S	<div style="border: 1px solid black; padding: 2px;">Yes ▼</div>		
Potash	<div style="border: 1px solid black; padding: 2px;">Ochoa ▼</div>		
Cave/Karst Potential	<div style="border: 1px solid black; padding: 2px;">Low ▼</div>		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Other
Wellhead	<div style="border: 1px solid black; padding: 2px;">Conventional and Multibowl ▼</div>		
Other	<input type="checkbox"/> 4 String	Capitan Reef <div style="border: 1px solid black; padding: 2px;">None ▼</div>	<input type="checkbox"/> WIPP
Other	Pilot Hole <div style="border: 1px solid black; padding: 2px;">None ▼</div>	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze <div style="border: 1px solid black; padding: 2px;">None ▼</div>	Echo-Meter <div style="border: 1px solid black; padding: 2px;">None ▼</div>	Primary Cement Squeeze <div style="border: 1px solid black; padding: 2px;">None ▼</div>
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input type="checkbox"/> Break Testing	<input type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (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 **1288 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **14 3/4** inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

C. PRESSURE CONTROL

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

Option 1:

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

Option 2:

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

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New

Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Casing Clearance

Operator casing variance is approved for the utilization of 5-1/2 inch btc **from** base of curve and a minimum of 500 feet or the minimum tie-back requirement above, whichever is greater into the previous casing shoe.

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

GENERAL REQUIREMENTS

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

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

☒ Lea County

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

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

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

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Long Vo (LVO) 5/21/2024

Coterra: H2S Plan



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

Coterra: H2S Plan

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

Well Control Equipment

1. See the pressure control section of this submission.

Communication

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

Drillstem Testing

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

Coterra: H2S Plan

H2S Contingency Plan

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 (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Contacting Authorities

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

Coterra: H2S Plan

Emergency Contacts

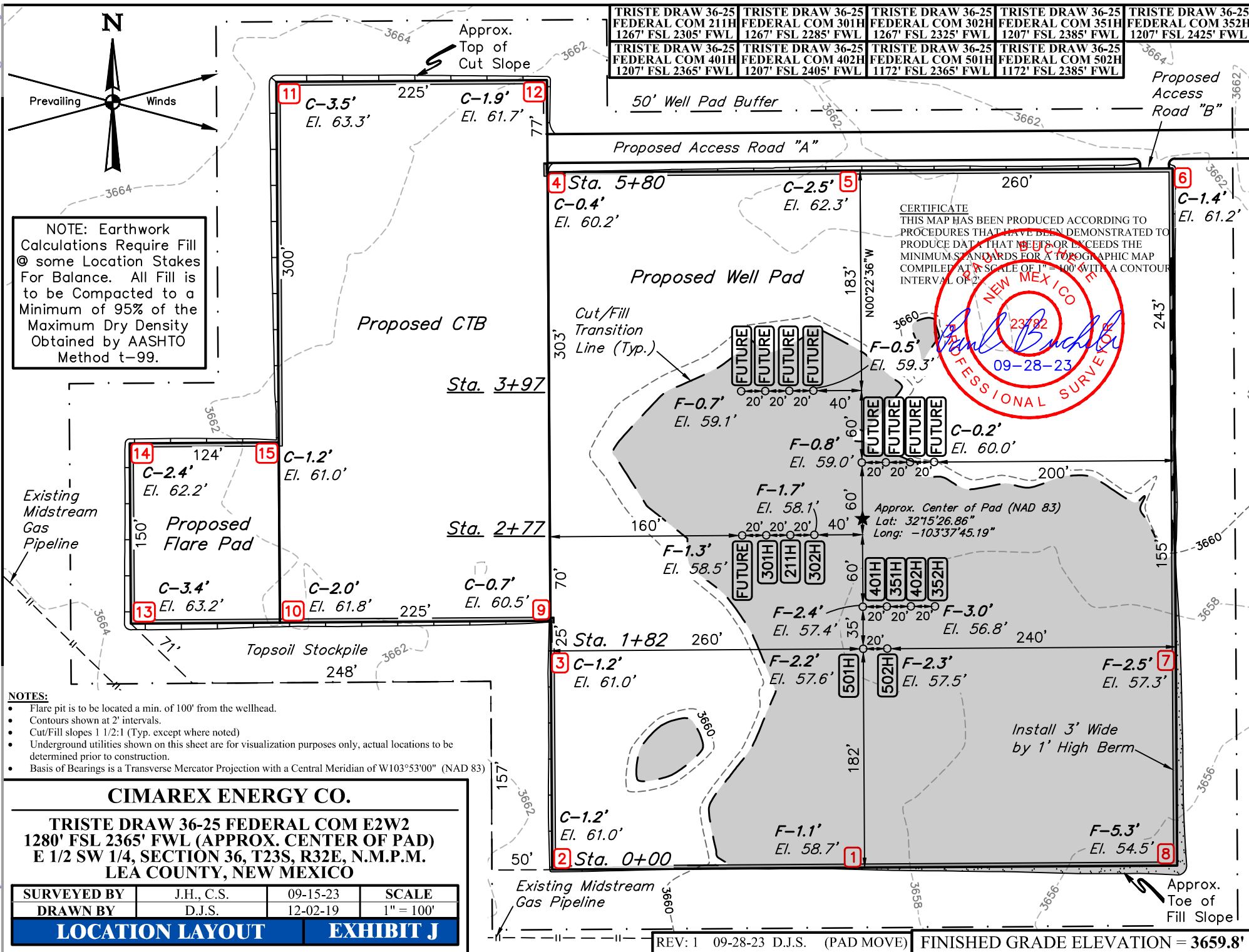
Coterra Energy

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

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

Third Party

PERMIAN REGION CONTACT NUMBERS					
CALL 911					
Air Ambulance Services					
	Reeves County Medical - Pecos, TX		432-447-3551		
	Aero Care - Midland, TX		800-627-2376		
	Tri State Care Flight - Artesia, NM		800-800-0900		
	Air Methods - Hobbs, NM		800-242-6199		
Fire / Police / Medical Care					
Sheriff's Office		Fire Departments		Hospital / Medical Care Facilities	
Andrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200
Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561
Howard County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211
Terry County	806-637-2212	Brownfield	806-637-6633		
Crane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555
Val Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566
		Denver City	806-592-3516	Yoakum County Hospital	806-592-2121
Pecos County	432-336-3521	Ft Stockton	432-336-8525		
Glasscock County	432-354-2361	Garden City			
Winkler County	432-586-3461	Kernit	432-586-2577	Winkler County Memorial	432-586-5864
		McCamey	432-652-8232	McCamey Hospital	432-652-8626
Loving County	432-377-2411	Mentone			
Irion County	325-835-2551	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





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	
	TRISTE DRAW 36-25 FEDERAL COM	
⁷ OGRID No.	⁸ Operator Name	
215099	CIMAREX ENERGY CO.	
	⁶ Well Number	⁹ Elevation
	401H	3657.4'

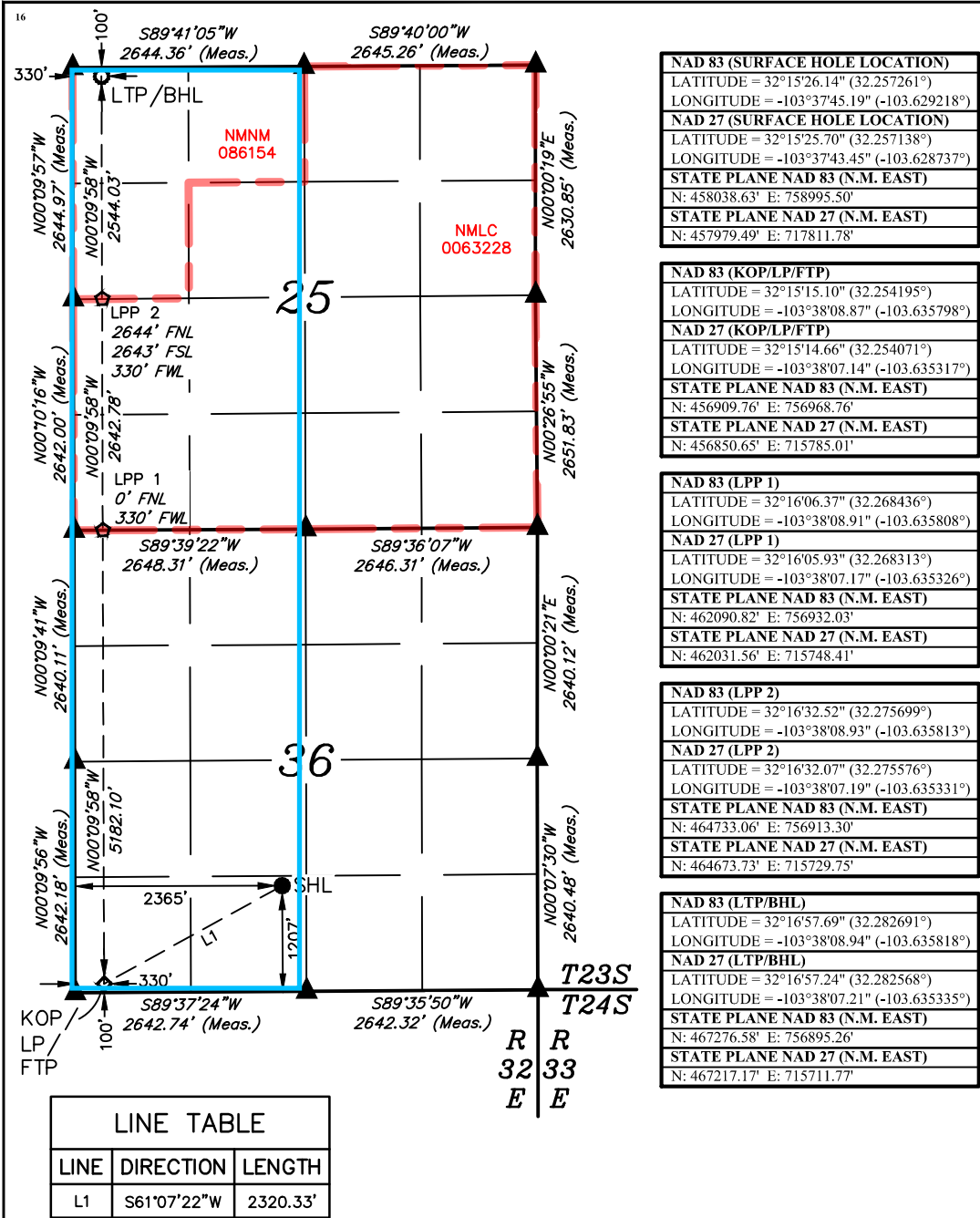
¹⁰ Surface Location

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	2365	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
D	25	23S	32E		100	NORTH	330	WEST	LEA
¹² Dedicated Acres		¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.				
640									

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.



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

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

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

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

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

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

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:



S C A L E

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



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

Drilling Plan Data Report

06/14/2024

APD ID: 10400095895

Submission Date: 11/20/2023

Highlighted data
reflects the most
recent changes

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COM

Well Number: 401H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

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

Section 2 - Blowout Prevention

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COM

Well Number: 401H

Pressure Rating (PSI): 10M

Rating Depth: 12445

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

Requesting Variance? YES

Variance request: See attached.

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

Choke Diagram Attachment:

- CHOKE_MANIFOLD_DIAGRAM_401H_20240424130606.pdf
- NEW_MEXICO_STANDARD_VARIANCES_Triste_401H_402H_20240424130607.pdf
- COTERRA_10M_MBU_3T_CFL_10.34_X_7.58_X_5.5_401H_20240424130607.pdf
- CIMAREX_10K_PROD_TREE_401H_20240424130607.pdf
- CHOKE_HOSE_M14856_401H_20240424130613.pdf

BOP Diagram Attachment:

- BOP_DIAGRAM_401H_20240424130620.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.75	10.75	NEW	API	N	0	1320	0	1320	3658	2338	1320	H-40	48	ST&C	2.83	5.61	DRY	12.06	DRY	12.06
2	PRODUCTI ON	6.75	5.5	NEW	API	Y	0	12136	0	12136	3658	-8478	12136	L-80	29	LT&C	1.47	1.3	DRY	2.18	DRY	2.18
3	INTERMED IATE	9.625	7.875	NEW	API	N	0	12936	0	12405	3658	-8747	12936	L-80	40	LT&C	2.47	1.19	DRY	1.54	DRY	1.54
4	PRODUCTI ON	6.75	5.0	NEW	API	Y	12136	22883	12136	12445	-8478	-8787	10747	P-110	18	BUTT	1.73	1.75	DRY	99.99	DRY	99.99

Casing Attachments

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COM

Well Number: 401H

Casing Attachments

Casing ID: 1	String	SURFACE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assumptions and Worksheet(s):		
Casing_Assumptions_401H_20240514104325.pdf		
Casing ID: 2	String	PRODUCTION
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Spec_Sheet_for_Tapered_Prod_5.5_23__P110RY_20240424134748.pdf		
Casing Design Assumptions and Worksheet(s):		
Casing ID: 3	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assumptions and Worksheet(s):		

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COM

Well Number: 401H

Casing Attachments

Casing ID: 4StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:
Spec_Sheet_for_Tapered_Prod_5_18__P110RY_03262024_20240424134719.pdf

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	Tuned Light0	LCM0
PRODUCTION	Tail		12736	22883	1386	1.3	14.2	1801	25	50:50	(Poz H) + Salt + Bentonite + Fluid Loss+ Dispersant + SMS
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0

SURFACE	Lead		0	1020	513	1.72	13.5	873	45	Class C	Bentonite
SURFACE	Tail		1020	1320	137	1.34	14.8	183	45	Class C	LCM
INTERMEDIATE	Lead		0	11936	1025	3.64	10.3	3733	49	36:65 (Poz c)	Salt, Bentonite
INTERMEDIATE	Tail		11936	12936	198	1.36	14.8	269	51	Class C	LCM

Operator Name: CIMAREX ENERGY COMPANY

Well Name: TRISTE DRAW 36-25 FEDERAL COMWell Number: 401H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1288	OTHER : Fresh water	7.83	8.33							
1288	1293 6	OTHER : Brine water	9.5	10							
1293 6	2288 3	OIL-BASED MUD	11.5	12							

Section 6 - Test, Logging, Coring

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

NO DST

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

DIRECTIONAL SURVEY,COMPENSATED NEUTRON LOG,GAMMA RAY LOG,

Coring operation description for the well:

N/A

Operator Name: CIMAREX ENERGY COMPANY**Well Name:** TRISTE DRAW 36-25 FEDERAL COM**Well Number:** 401H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7765**Anticipated Surface Pressure:** 5024**Anticipated Bottom Hole Temperature(F):** 192**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

H2S_PLAN_REV.0_20240424135204.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

401H_Directional_Plan_20231117072357.pdf

401H_Well_Plan_20231117072357.pdf

401H_AC_Summary_20231117072357.pdf

GEOPROG_Triste_Draw_36_25_Fed_Com_401H_WFMP_Z_JAB_20231120132046.pdf

WELL_CONTROL_PLAN_REV.0_20240424135228.pdf

401H_Drilling_Plan_updated_04242024_20240514104804.pdf

_5_14_2024_11_48_20_AM_Proposal_100_Coterra_Triste_Draw_36_25_Federal_Com_401H_Rev0_mdv_19Oct23_20240514104916.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:**

Triste_Draw_36_25_Federal_Com_Location_Layout_Plat_20231115135509.pdf

Triste_Draw_36_25_Federal_Com_Well_Site_Layout_20231115135509.pdf

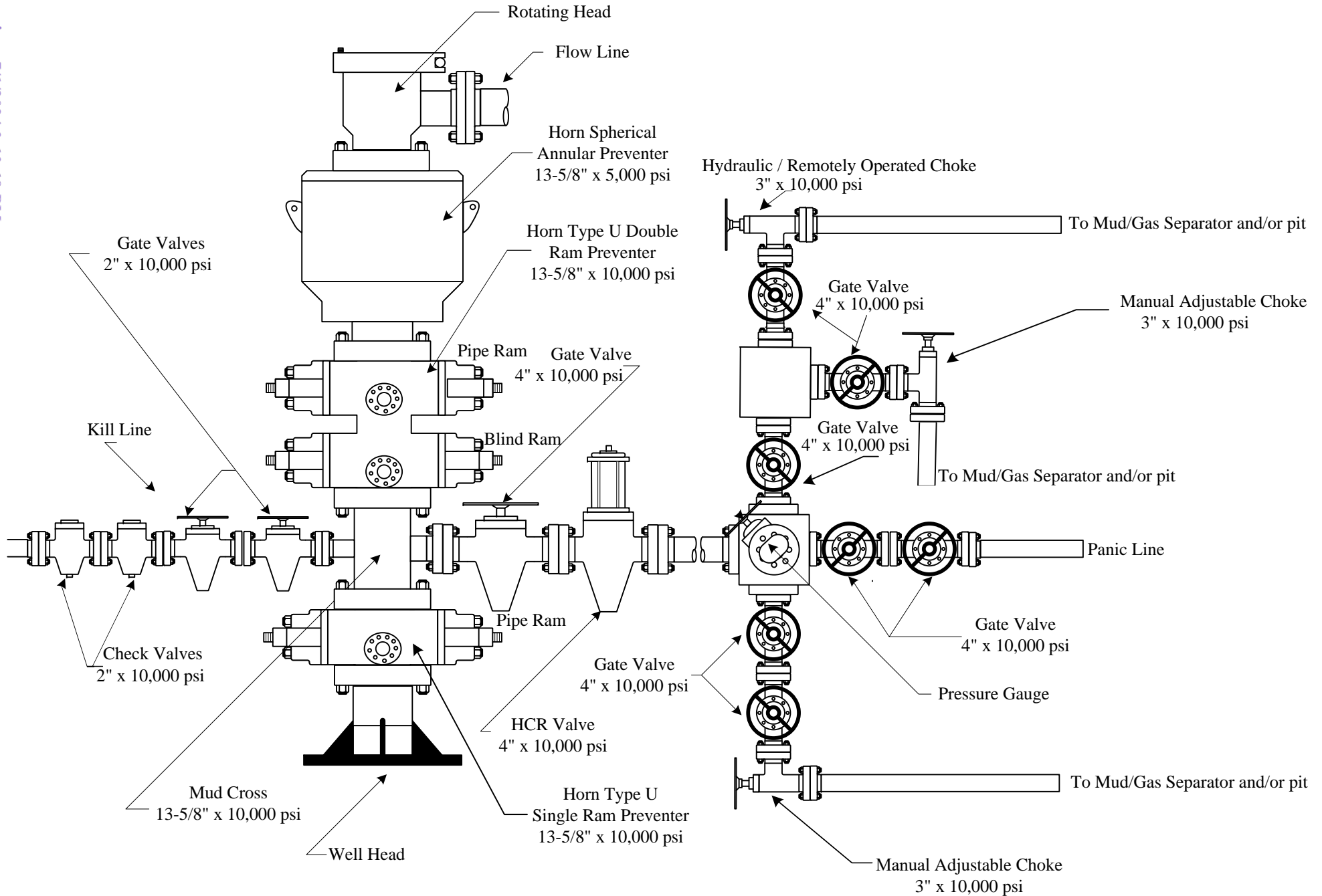
Triste_Draw_36_25_Federal_Com_401H_Natural_Gas_Plan_Cimarex_20231117072407.pdf

Other Variance attachment:

NEW_MEXICO_STANDARD_VARIANCES_Triste_401H_402H_20240424135306.pdf

CHOKE_HOSE_M14856_401H_20240424135318.pdf

CONFIDENTIAL



Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

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

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

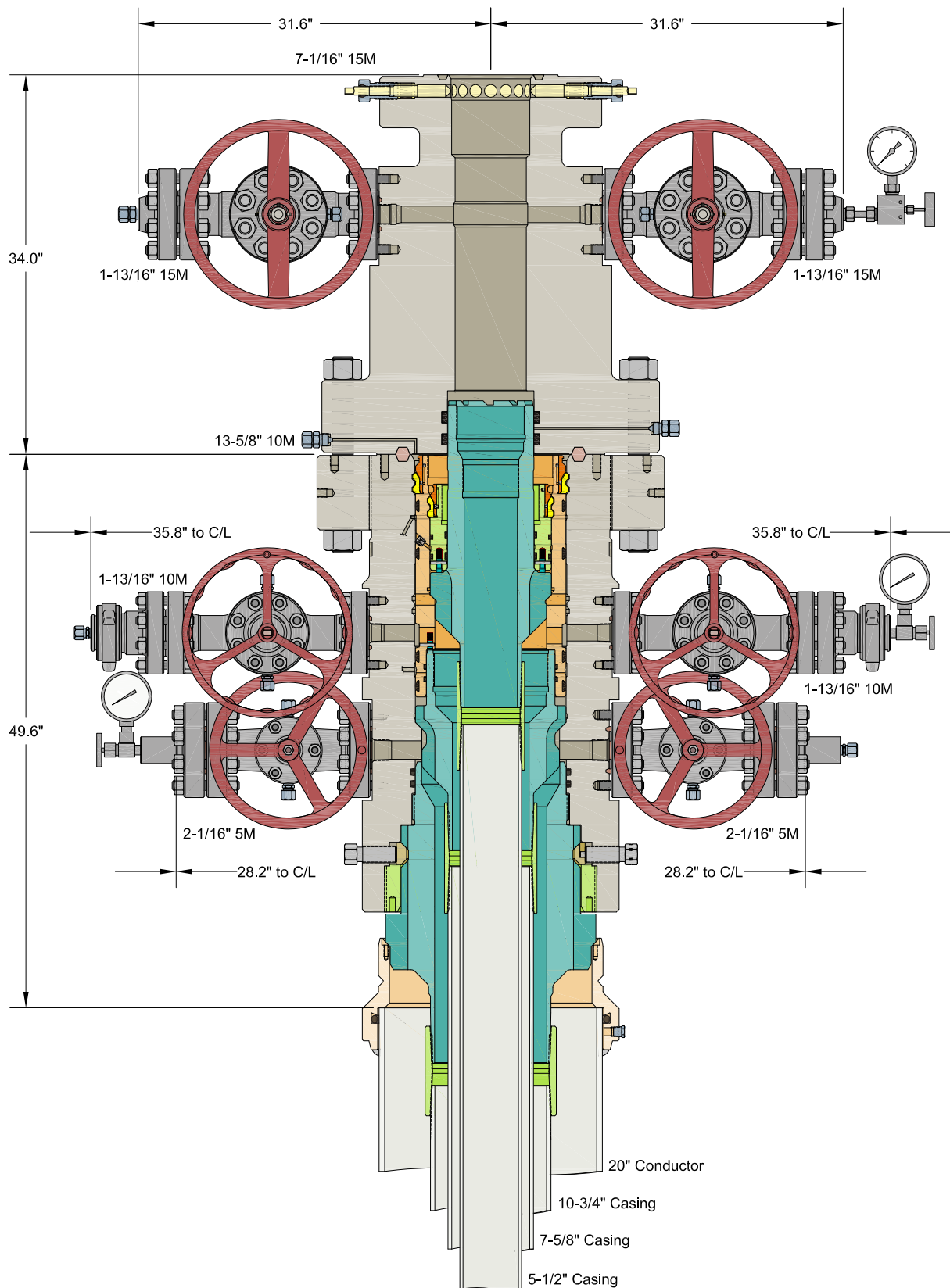
Coterra requests approval to omit the DV tool from the intermediate casing string. In lieu of a DV tool, Coterra will retain the option to pump down the intermediate annulus through casing valves with the appropriate cement slurry in the event returns to surface are not achieved on the primary job.

Variance Request #4: Utilize Co-Flex Choke Line

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

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

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



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

COTERRA ENERGY INC
HOBBS, NM

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

DRAWN	VJK	07JUL23
APPRV		
DRAWING NO.	HBE0000965	



Quotation

Quote Number : HBE0000965

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

Date: 07/07/2023
Valid For 30 Days

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Bill To: 7035

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

Ship To: 0

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

Quantity Price Ext Price

COTERRA ENERGY INC
DAVID SHAW

HOBBS, NM

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

QUOTATION SUMMARY:

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

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

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

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

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

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

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

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

29,839.64**CASING HANGERS & PACKOFFS**

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

12,581.24**RENTAL TOOLS**

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

PN 119126: LIFT RING,CSGHGR,CFL-R,W/14.000-2 STUB ACME-2G LEFT HAND THDS,4140 110K

PN 121275: RUN TOOL,CW,CSGHGR,MBU-3T-CFL-R,10-3/4 BC BOX TOP X 14.000-2 STUB ACME-2G LH BOX LANDING



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

SAFEDRILL® DRILLING ADAPTER

27	8Q	13 10M X 13 10M CQC ADPT (45D)	0.00	1,700.00	0.00
SAFEDRILL® DRILLING ADAPTER RENTAL PACKAGE = \$1,700.00 PER WELL FOR THE FIRST 45 DAYS; \$65.00 PER DAY THEREAFTER.					
RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:					
PN 116966: ADPT,DRLG,CW,MBU-3T,13-5/8 10M QUICK CONNECT BTM X 13-5/8 10M STD TOP,TEMP RATING PU					
PN 116992: HUB,CW,THD,MBU-3T,13-5/8 10M,W/21.750-2 STUB ACME-2G L.H. BOX THD					

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

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			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	50	3T OLC - 7-5/8 RT DAILY RENTAL	0.00	950.00	0.00
MBU-3T - 7-5/8" OFFLINE CEMENTING RENTAL PACKAGE = \$950.00 PER WELL					
RENTAL TOOLS CONSIST OF THE FOLLOWING ITEMS:					
PN 133817: CEMENT TOOL,CW,CSGHGR/PACKOFF,MBU-3T-LWR-OLC,NESTED,7-5/8 BC PIN TOP,W/11.250-4 STUB ACME-2G LH PIN THD HOLD DOWN RING,6.964 MIN BORE,5000 PSI MAX WP,4140 125K					
PN 124993: CIRCULATION PLUG,CW,CTF/MBU-3T,11 NOM,W/ONE WAY 3 HBPV,6A-U-AA-1-1					
PN 107010: RUN TOOL,CW,PACKOFF,MBU-LR-LWR,11 X 3-1/2 IF (NC38) BTM & TOP,W/7.500-4 STUB ACME-2G LH PIN BTM					
NOTE: CUSTOMER RESPONSIBLE FOR LOST OR DAMAGE BEYOND REPAIR TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.					
					0.00
SAFEDRILL® TA CAP					
29	7T	13 10M CQC TA CAP (90D)	0.00	1,300.00	0.00
SAFEDRILL® TA CAP RENTAL PACKAGE = \$1,300.00 PER WELL FOR THE FIRST 90 DAYS; \$85.00 PER DAY THEREAFTER.					
PN 117347: TA CAP,CW,MBU-3T-HPS,9,13-5/8 10M QUICK CONNECT,W/ONE 1-13/16 10M FP,VR THD & 1/2 NPT PORT,6A-U-AA-1-1					
PN 108499: SECSEAL,CW,TA-HPS,9 X 7-5/8 X 4.31 LG,W/7.731 BORE,6A-U-AA-1-1					
PN 116992: HUB,CW,THD,MBU-3T,13-5/8 10M,W/21.750-2 STUB ACME-2G L.H. BOX THD					
NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED OR BEYOND REPAIR RENTAL EQUIPMENT. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. ACCESSORIES FOR ASSEMBLY ARE NOT INCLUDED IN RENTAL RATE.					
					0.00
TUBING HEAD ASSEMBLY					
30	126002-21MG		1.00	11,108.00	11,108.00
TBGHD,CW,CTH-DBLHPS-SB,7-5/8,13-5/8 10M X 7-1/16 15M,W/2 1-13/16 15M FP,W/6.375 MIN BORE & 17-4PH LDS,34.0 LG,216A-PU-EE-0,5-3-2					
31	113880MV		2.00	2,792.00	5,584.00
VLV,CW,SB100,1-13/16 15M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR2F) QPQ TRIM, API 6A PR2 ANNEX F (BORE VENT HOLE)					
32	127140		2.00	150.00	300.00
FLG,BLIND,CW,1-13/16 15M X 9/16 AUTOCLAVE,REC F/VR PLUG,6A-LU-EE-3					

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

CONTINGENCY EQUIPMENT

EMERGENCY EQUIPMENT; INVOICED AS REQUIRED:

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

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

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

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


Cactus

Quotation

Quote Number : HBE0000965

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

Date: 07/07/2023
Valid For 30 Days
Page 7 of 8

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

1. **ACCEPTANCE:** Acceptance of Cactus Wellhead, LLC (herein: Company) Purchase Terms and Conditions (herein: CACTUS Purchase Terms) shall be deemed effective upon shipment of the Products and/or rendering of Services which are the subject of an order by Customer (defined as the party purchasing CACTUS Products and or Services referred on the invoice). Any proposal made by Customer for additional or different terms and conditions or any attempt by Customer to vary in any degree any of the terms and conditions of CACTUS Purchase Terms is hereby rejected.
2. **PRICING:** Each Product and Service shall be invoiced at (and Customer shall pay) the respective price shown on the reverse side hereof, or if no price is shown on the reverse side hereof, at the price shown in the current price list of Company. In addition, Customer shall pay any and all additional charges for mileage, transportation, freight, packing and other related charges, as well as any federal, state or local tax, excise, or charge applicable on the sale, transportation, or use of Products and Services, unless otherwise specified.
3. **TERMS OF PAYMENT:** Customer agrees to pay Company any and all payments due on or before thirty (30) days from invoice date at the designated address of Company. Amounts unpaid after such thirty (30) day period shall bear interest at the lesser of (i) one and one-half percent (1½%) per month or (ii) the maximum rate allowed by law. Customer shall also pay any and all of Company's attorney's fees and court costs if any amounts hereunder are collected by an attorney or through legal proceedings. Company reserves the right, among other remedies, either to terminate this agreement or to suspend further deliveries upon failure of Customer to make any payment as provided herein.
4. **LIMITED WARRANTY:** COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE MERCHANTABILITY, FITNESS FOR PURPOSE, DESCRIPTION, QUALITY, PRODUCTIVENESS, ACCURACY OR ANY OTHER MATTER WITH RESPECT TO PRODUCTS OR SERVICES, ALL SUCH WARRANTIES BEING HEREBY SPECIFICALLY AND EXPRESSLY DISCLAIMED BY COMPANY. COMPANY MAY OFFER TECHNICAL ADVICE OR ASSISTANCE WITH REGARD TO THE PRODUCTS AND SERVICES BASED ON LABORATORY AND/OR FIELD EXPERIENCE AND CUSTOMER UNDERSTANDS AND AGREES THAT SUCH ADVICE REPRESENTS ONLY GOOD FAITH OPINIONS AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE. THE SOLE AND EXPRESS WARRANTY PROVIDED BY COMPANY IS TO WARRANT THAT THE PRODUCTS SOLD AS LISTED ON THE REVERSE SIDE HEREOF COMPLY WITH COMPANY'S SOLE SPECIFICATION AT THE DATE AND TIME OF MANUFACTURE. COMPANY MAKES NO WARRANTY THAT SUCH PRODUCTS SHALL MEET SUCH SPECIFICATION AT ANY TIME AFTER SHIPMENT OF PRODUCTS. USE OF SUCH PRODUCTS IS SPECIFICALLY NOT WARRANTED.
5. **REMEDY:** The exclusive remedy for this warranty for Products shall be limited to, in Company's sole discretion and judgment, the replacement of defective part(s). F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer), or repair of defective part(s). The exclusive remedy for this warranty for Services shall be limited to the repeat of Services performed F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer). Any such repeat of Services or replacement or repair of Products shall not include any materials not sold by Company hereunder, and specifically excludes any obligation by Company related to other property of the Customer or any property of third parties. Provided, however, Company may in its sole discretion, decide to instead give Customer credit memorandum for the amounts already paid by Customer to Company for such Product or Service. IN ANY EVENT AND NOTWITHSTANDING THE LANGUAGE TO THE CONTRARY HEREIN, CUSTOMER ACKNOWLEDGES THAT ANY CLAIM IT MAY HAVE ARISING OUT OF OR IN CONNECTION WITH ANY ORIGINAL PRODUCTS AND SERVICES, ANY REPLACEMENT PRODUCTS OR REPEAT OF SERVICES AND THESE CACTUS PURCHASE TERMS SHALL BE LIMITED TO AND NOT EXCEED THE AMOUNT CUSTOMER HAS ACTUALLY PAID TO COMPANY FOR SUCH PRODUCTS AND/OR SERVICES PURSUANT HERETO. If Customer fails to make any such claim within thirty (30) days after completion of Service or delivery of Products, Customer hereby waives (to the extent permitted by applicable law) any and all claims it may or does have with respect to such Products and Services. Unless Customer is an authorized reseller of Company, Company's liability in connection with Products and Services shall extend only to Customer. CUSTOMER HEREBY INDEMNIFIES AND HOLDS COMPANY (AND ITS AGENTS, REPRESENTATIVES, OFFICERS DIRECTORS AND EMPLOYEES) HARMLESS FOR ANY LOSS, EXPENSE OR DAMAGE (WHETHER OF CUSTOMER OR OF ANY THIRD PARTY) ARISING FROM OR IN CONNECTION WITH PRODUCTS AND SERVICES, INCLUDING WITHOUT LIMITATION ANY FAILURE OF SUCH PRODUCTS AND SERVICES TO CONFORM TO CUSTOMER'S ORDER OR SPECIFICATION OR ANY OTHER STANDARD, OR ANY NEGLIGENCE OR BREACH OF WARRANTY BY COMPANY WITH RESPECT TO ANYTHING DONE OR FAILED TO HAVE BEEN DONE BY COMPANY, IF AND TO THE EXTENT THAT SUCH LOSS, EXPENSE OR DAMAGE EXCEEDS THE AMOUNT CUSTOMER HAS ACTUALLY PAID COMPANY PURSUANT HERETO FOR SUCH PRODUCTS OR SERVICES.
6. **INSPECTION:** The results of any inspection or testing reported by the Company to Customer represents only good faith opinions and are not to be construed as warranties or guarantees of the quality, classification, merchantability, fitness for purpose, condition, or liability of any equipment or material that has been inspected or tested by the Company.
7. **INSURANCE:** Each party agrees to maintain comprehensive general liability insurance in the amount of \$1,000,000 each occurrence, \$2,000,000 general aggregate, and Workers Compensation insurance per statutory requirements providing coverage for the indemnity obligations in this agreement. The Company (and such of its affiliates as it shall designate) including their officers, directors, members, shareholders, partners, joint ventures, employees, agents and representatives shall be named as additional insureds under the policies of Customer on a primary basis to the extent of its indemnification obligations set forth in these CACTUS Purchase Terms, and the policies shall also provide a waiver of subrogation rights in favor of the Company (and such of its affiliates as it shall designate) and their officers, directors, members, shareholders, employees, agents and representatives. The provisions of this Section 7 shall apply and the obligation to maintain insurance of each party in the coverages and amounts set forth herein shall remain in force regardless and independent of the validity or enforceability of the indemnity provisions of Section 8, below; the obligation to obtain insurance is a separate and independent obligation. If the insurance required herein is more or less than allowed by prevailing law, the indemnity obligations in Section 8 below shall be effective only to the maximum extent permitted under applicable law.
8. **INDEMNIFICATION:** The following indemnifications and releases of liability will apply to any Products or Services provided under this contract. COMPANY AND CUSTOMER EXPRESSLY AGREE THAT, TO THE EXTENT REQUIRED BY APPLICABLE LAW TO BE EFFECTIVE, THE INDEMNITIES AND DISCLAIMERS OF WARRANTIES CONTAINED HEREIN ARE "CONSPICUOUS."
 - A. **Customer Indemnity Obligations.** Customer hereby releases Company from any liability for, and shall protect, defend, indemnify, and hold harmless Company, its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, insurers, and consultants (specifically excluding any member of Customer Group) of all of the foregoing, and its and their respective successors, heirs and assigns ("Company Group") from and against all costs (including the payment of reasonable attorneys' fees), losses, liabilities, demands, causes of action, damages, or claims of every type and character ("Claims"), arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of Customer its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, customers, insurers, invitees and consultants of all of the foregoing, and its and their respective successors, heirs and assigns ("Customer Group"), or (ii) loss of or damage to any property of any member of Customer Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.
 - B. **Company Indemnity Obligations.** Company hereby releases Customer from any liability for, and shall protect, defend, indemnify, and hold harmless Customer from and against all Claims arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of any member of Company Group, or (ii) loss of or damage to any property of any member of Company Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF CUSTOMER GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.
 - C. **Third Party Claims.** Notwithstanding the foregoing, to the extent of its negligence, Company and Customer shall each indemnify, defend and hold harmless from and against all Claims, of every type and character, which are asserted by third parties for bodily injury, death or loss or destruction of property or interests in property in any manner caused by, directly or indirectly resulting from, incident to, connected with or arising out of the work to be performed, Services to be rendered or Products or materials furnished to Customer. When personal injury, death or loss of or damage to property is the result of joint or concurrent negligence of Customer and Company, the indemnitor's duty of indemnification shall be in proportion to its allocable share of such negligence.
 - D. **Pollution.** Company agrees that it shall be totally responsible for, and shall protect, defend and indemnify, Customer for all losses, damages, claims, demands, costs, charges, and other expenses, including attorneys' fees, for any and all waste and/or hazardous substances which are in Company Group's exclusive possession and control and directly associated with Company Group's equipment and facilities, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF CUSTOMER GROUP. Customer shall assume all responsibility for, including control and removal of, and shall protect, defend and indemnify Company Group from and against all Claims arising directly or indirectly from all other pollution or contamination which may occur during the conduct of operations hereunder, including, but not limited to, that which may result from fire, blowout, cratering, seepage or any other uncontrolled flow of oil, gas, water or other substance, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF COMPANY GROUP.
 - E. **Wild Well.** Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group for any damages, expenses, losses, fines, penalties, costs, expert fees and attorneys' fees arising out of a fire, blow out, cratering, seepage or wild well, including regaining control thereof, debris removal and property restoration and remediation. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.
 - F. **Underground Damage.** Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group from and against any and all claims, liability and expenses resulting from operations related to the work under this agreement on account of injury to, destruction of, or loss or impairment of any property right in or to oil, gas or other mineral substance or water, if at the time of the act or omission causing such injury, destruction, loss or impairment said substance and not been reduced to physical possession above the surface of the earth, and for any loss or damage to any formation, strata, or reservoir beneath the surface of the earth. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.
 - G. The foregoing indemnities set forth in these CACTUS Purchase Terms are intended to be enforceable against the parties hereto in accordance with the express terms and scope hereof notwithstanding Texas' Express Negligence Rule or any similar directive that would prohibit or otherwise limit indemnities because of the negligence (whether sole, concurrent, active or passive, ordinary or gross) or other fault or strict liability of Company or Customer.
 - H. If a claim is asserted against one of the parties to this agreement which may give rise to a claim for indemnity against the other party hereto, the party against whom the claim is first asserted must notify the potential indemnitor in writing and give the potential indemnitor the right to defend or assist in the defense of the claim.
9. **RISK OF LOSS:**
 - A. Title and risk of loss shall pass to Customer upon delivery as specified in Article 11. Customer's receipt of any material delivered hereunder shall be an unqualified acceptance of, and a waiver by Customer of any and all claims with respect to, such material unless Customer gives Company written notice of claim within thirty (30) days after such receipt. Notwithstanding the foregoing, installation or use of materials or equipment shall unequivocally constitute irrevocable acceptance of said materials. Customer assumes all risk and liability for the results obtained by the use of any material or Products delivered hereunder in work performed by on behalf of Customer or in combination with other or substances. No claim of any kind, whether as to material delivered or for non-delivery of material, and whether or not based on negligence, shall be greater in amount than the purchase price of the


Cactus™

Quotation

Quote Number : HBE0000965

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

Date: 07/07/2023
Valid For 30 Days
Page 8 of 8

material in respect of which such claim is made.

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

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

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

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

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

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

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

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

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

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

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

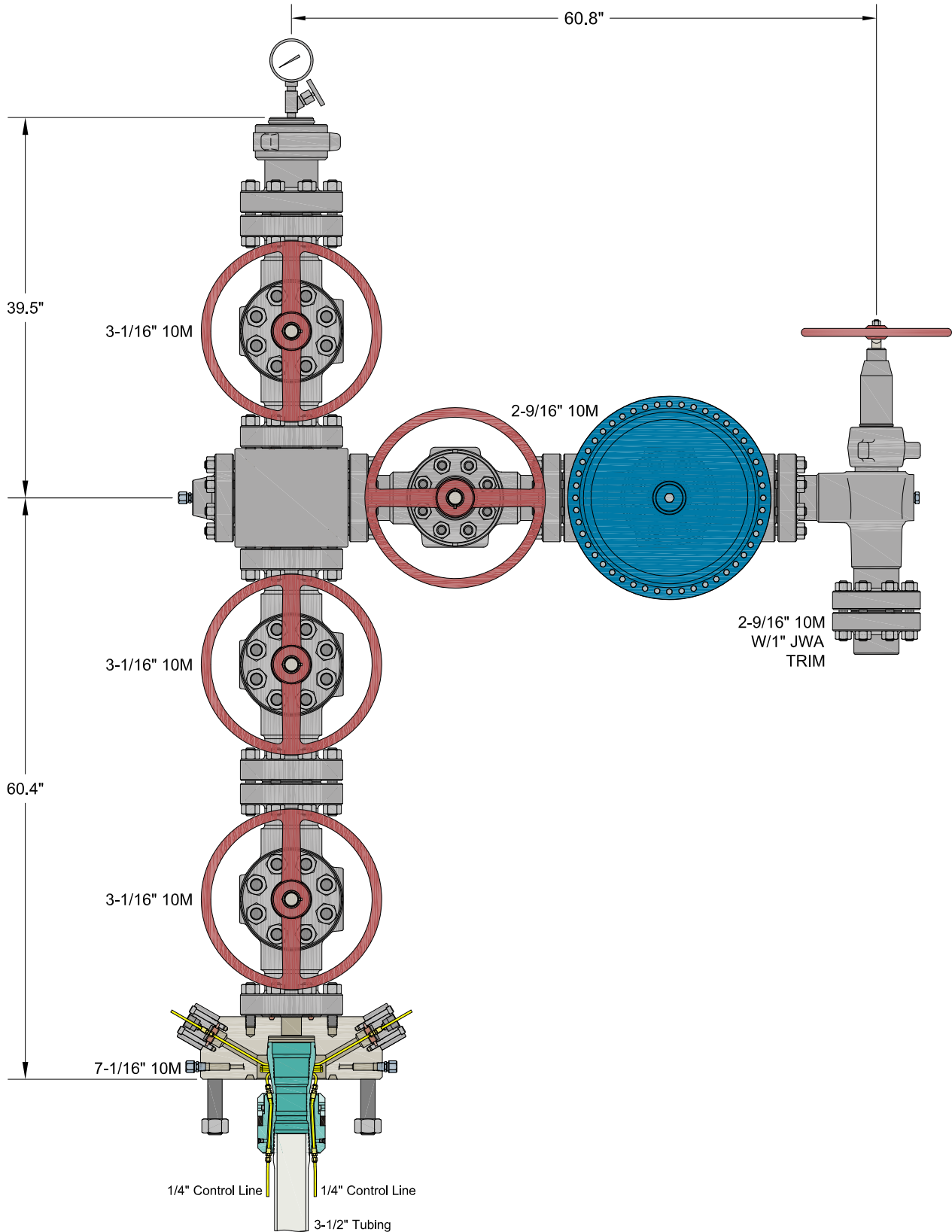
20. **CHOICE OF LAW.** THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF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

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

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

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

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



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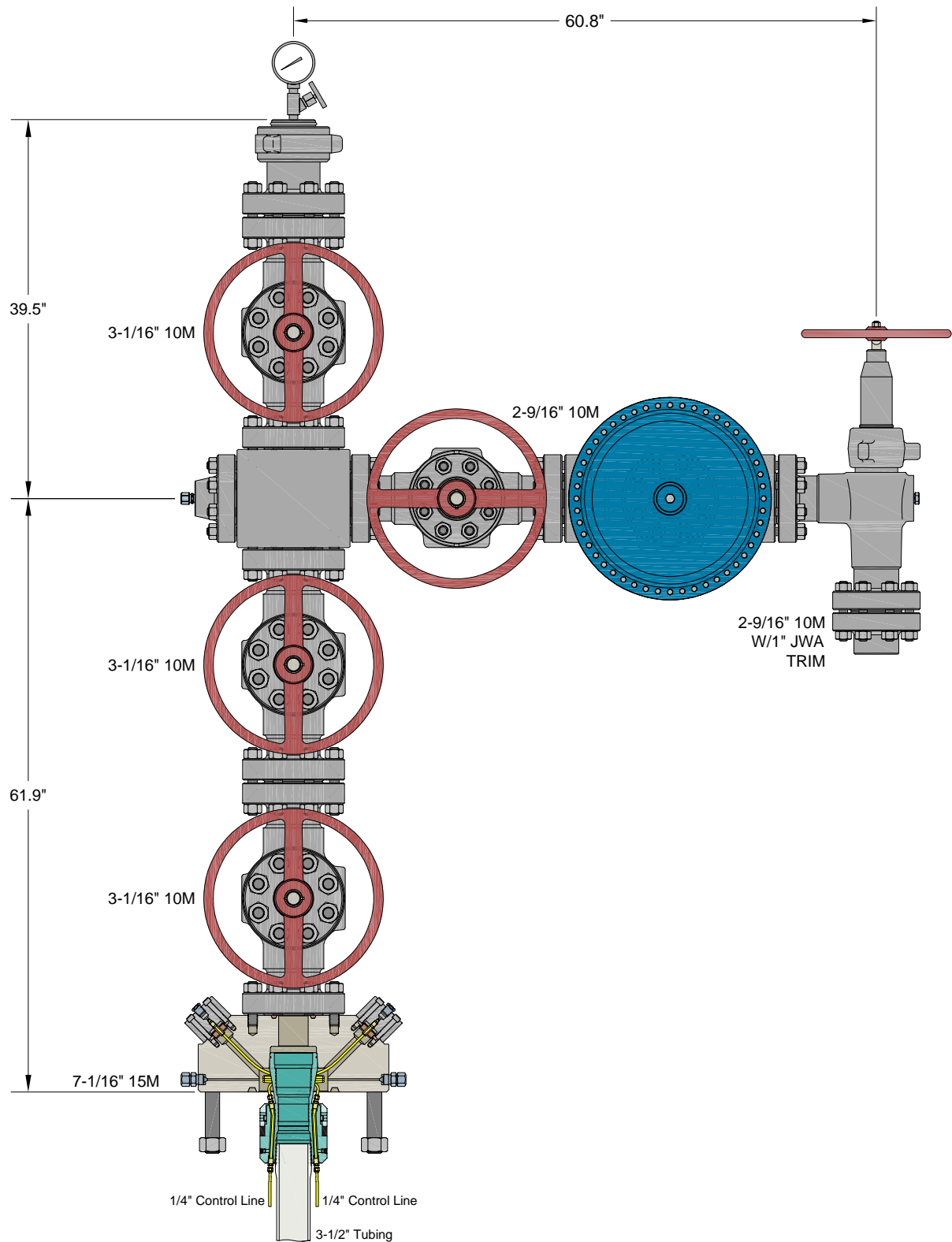
ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

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

DRAWN	VJK	05SEP23
APPRV		
DRAWING NO.	HBE0001018	



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

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

DRAWN	VJK	13DEC23
APPRV		
DRAWING NO.	HBE0001018	



Cactus

Quotation

Quote Number : HBE0001018

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

Date: 09/08/2023
Valid For 30 Days

Page 1 of 5

Bill To: 7050

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

Ship To: 1016

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

Quantity	Price	Ext Price
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CIMAREX

HOBBS, NM

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

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - \$49,338.02

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

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

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

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

**Cactus****Quotation****Quote Number : HBE0001018**

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

Date: 09/08/2023

Valid For 30 Days

Page 2 of 5

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



Cactus

Quotation

Quote Number : HBE0001018

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

Date: 09/08/2023
Valid For 30 Days

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		Quantity	Price	Ext Price
15	BX153 RING GASKET,BX153,2-9/16 10/15/20M	5.00	11.54	57.70
16	780067-20E1 STUD,ALL-THD W/2 HVY HEX NUTS,BLK,7/8-9UNC X 6-1/2,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING	24.00	14.70	352.80
17	135166 TBGHGR,CW,T40-CCL,7-1/16 X 3-1/2 EU API MOD BOX BTM X 3-1/2 EU BOX TOP,W/3 HBPV THD,W/ TWO 1/4 CCL & DOVETAIL SEAL,CF 124316P2,10000 PSI MAX WP,17-4PH SS,TEMP PU,MATL FF-0,5,PSL2,PR2	1.00	4,490.00	4,490.00
18	BX156 RING GASKET,BX156,7-1/16 10/15/20M	1.00	62.48	62.48
19	NVS NEEDLE VALVE,MFS,1/2 NPT MXF,10M PSI WP,CARBON STEEL BODY, 304/316SS STEM, TFE PACKING (NON-NACE)	1.00	61.16	61.16
20	PG10M PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT	1.00	58.24	58.24
21	PRO Prorata Freight	0.75	2,768.56	2,076.42
				49,338.02
OPTIONAL 15M ADAPTER				
22	124999P2 ADPT,TBGHD,CW,T40-CCL,7-1/16 15M STD X 3-1/16 10M STD,W/TWO #14 DHCV W/1/4 NPT INLET,10000 PSI MAX WP,TEMP PU,MAT'L EE,PSL2,PR2	0.00	7,423.00	0.00
				0.00

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

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

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


Cactus

Quotation

Quote Number : HBE0001018

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

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Valid For 30 Days
Page 4 of 5

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

1. **ACCEPTANCE:** Acceptance of Cactus Wellhead, LLC (herein: Company) Purchase Terms and Conditions (herein: CACTUS Purchase Terms) shall be deemed effective upon shipment of the Products and/or rendering of Services which are the subject of an order by Customer (defined as the party purchasing CACTUS Products and or Services referred on the invoice). Any proposal made by Customer for additional or different terms and conditions or any attempt by Customer to vary in any degree any of the terms and conditions of CACTUS Purchase Terms is hereby rejected.
2. **PRICING:** Each Product and Service shall be invoiced at (and Customer shall pay) the respective price shown on the reverse side hereof, or if no price is shown on the reverse side hereof, at the price shown in the current price list of Company. In addition, Customer shall pay any and all additional charges for mileage, transportation, freight, packing and other related charges, as well as any federal, state or local tax, excise, or charge applicable on the sale, transportation, or use of Products and Services, unless otherwise specified.
3. **TERMS OF PAYMENT:** Customer agrees to pay Company any and all payments due on or before thirty (30) days from invoice date at the designated address of Company. Amounts unpaid after such thirty (30) day period shall bear interest at the lesser of (i) one and one-half percent (1½%) per month or (ii) the maximum rate allowed by law. Customer shall also pay any and all of Company's attorney's fees and court costs if any amounts hereunder are collected by an attorney or through legal proceedings. Company reserves the right, among other remedies, either to terminate this agreement or to suspend further deliveries upon failure of Customer to make any payment as provided herein.
4. **LIMITED WARRANTY:** COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE MERCHANTABILITY, FITNESS FOR PURPOSE, DESCRIPTION, QUALITY, PRODUCTIVENESS, ACCURACY OR ANY OTHER MATTER WITH RESPECT TO PRODUCTS OR SERVICES, ALL SUCH WARRANTIES BEING HEREBY SPECIFICALLY AND EXPRESSLY DISCLAIMED BY COMPANY. COMPANY MAY OFFER TECHNICAL ADVICE OR ASSISTANCE WITH REGARD TO THE PRODUCTS AND SERVICES BASED ON LABORATORY AND/OR FIELD EXPERIENCE AND CUSTOMER UNDERSTANDS AND AGREES THAT SUCH ADVICE REPRESENTS ONLY GOOD FAITH OPINIONS AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE. THE SOLE AND EXPRESS WARRANTY PROVIDED BY COMPANY IS TO WARRANT THAT THE PRODUCTS SOLD AS LISTED ON THE REVERSE SIDE HEREOF COMPLY WITH COMPANY'S SOLE SPECIFICATION AT THE DATE AND TIME OF MANUFACTURE. COMPANY MAKES NO WARRANTY THAT SUCH PRODUCTS SHALL MEET SUCH SPECIFICATION AT ANY TIME AFTER SHIPMENT OF PRODUCTS. USE OF SUCH PRODUCTS IS SPECIFICALLY NOT WARRANTED.
5. **REMEDY:** The exclusive remedy for this warranty for Products shall be limited to, in Company's sole discretion and judgment, the replacement of defective part(s). F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer), or repair of defective part(s). The exclusive remedy for this warranty for Services shall be limited to the repeat of Services performed F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer). Any such repeat of Services or replacement or repair of Products shall not include any materials not sold by Company hereunder, and specifically excludes any obligation by Company related to other property of the Customer or any property of third parties. Provided, however, Company may in its sole discretion, decide to instead give Customer credit memorandum for the amounts already paid by Customer to Company for such Product or Service. IN ANY EVENT AND NOTWITHSTANDING THE LANGUAGE TO THE CONTRARY HEREIN, CUSTOMER ACKNOWLEDGES THAT ANY CLAIM IT MAY HAVE ARISING OUT OF OR IN CONNECTION WITH ANY ORIGINAL PRODUCTS AND SERVICES, ANY REPLACEMENT PRODUCTS OR REPEAT OF SERVICES AND THESE CACTUS PURCHASE TERMS SHALL BE LIMITED TO AND NOT EXCEED THE AMOUNT CUSTOMER HAS ACTUALLY PAID TO COMPANY FOR SUCH PRODUCTS AND/OR SERVICES PURSUANT HERETO. If Customer fails to make any such claim within thirty (30) days after completion of Service or delivery of Products, Customer hereby waives (to the extent permitted by applicable law) any and all claims it may or does have with respect to such Products and Services. Unless Customer is an authorized reseller of Company, Company's liability in connection with Products and Services shall extend only to Customer. CUSTOMER HEREBY INDEMNIFIES AND HOLDS COMPANY (AND ITS AGENTS, REPRESENTATIVES, OFFICERS DIRECTORS AND EMPLOYEES) HARMLESS FOR ANY LOSS, EXPENSE OR DAMAGE (WHETHER OF CUSTOMER OR OF ANY THIRD PARTY) ARISING FROM OR IN CONNECTION WITH PRODUCTS AND SERVICES, INCLUDING WITHOUT LIMITATION ANY FAILURE OF SUCH PRODUCTS AND SERVICES TO CONFORM TO CUSTOMER'S ORDER OR SPECIFICATION OR ANY OTHER STANDARD, OR ANY NEGLIGENCE OR BREACH OF WARRANTY BY COMPANY WITH RESPECT TO ANYTHING DONE OR FAILED TO HAVE BEEN DONE BY COMPANY, IF AND TO THE EXTENT THAT SUCH LOSS, EXPENSE OR DAMAGE EXCEEDS THE AMOUNT CUSTOMER HAS ACTUALLY PAID COMPANY PURSUANT HERETO FOR SUCH PRODUCTS OR SERVICES.
6. **INSPECTION:** The results of any inspection or testing reported by the Company to Customer represents only good faith opinions and are not to be construed as warranties or guarantees of the quality, classification, merchantability, fitness for purpose, condition, or liability of any equipment or material that has been inspected or tested by the Company.
7. **INSURANCE:** Each party agrees to maintain comprehensive general liability insurance in the amount of \$1,000,000 each occurrence, \$2,000,000 general aggregate, and Workers Compensation insurance per statutory requirements providing coverage for the indemnity obligations in this agreement. The Company (and such of its affiliates as it shall designate) including their officers, directors, members, shareholders, partners, joint ventures, employees, agents and representatives shall be named as additional insureds under the policies of Customer on a primary basis to the extent of its indemnification obligations set forth in these CACTUS Purchase Terms, and the policies shall also provide a waiver of subrogation rights in favor of the Company (and such of its affiliates as it shall designate) and their officers, directors, members, shareholders, employees, agents and representatives. The provisions of this Section 7 shall apply and the obligation to maintain insurance of each party in the coverages and amounts set forth herein shall remain in force regardless and independent of the validity or enforceability of the indemnity provisions of Section 8, below; the obligation to obtain insurance is a separate and independent obligation. If the insurance required herein is more or less than allowed by prevailing law, the indemnity obligations in Section 8 below shall be effective only to the maximum extent permitted under applicable law.
8. **INDEMNIFICATION:** The following indemnifications and releases of liability will apply to any Products or Services provided under this contract. COMPANY AND CUSTOMER EXPRESSLY AGREE THAT, TO THE EXTENT REQUIRED BY APPLICABLE LAW TO BE EFFECTIVE, THE INDEMNITIES AND DISCLAIMERS OF WARRANTIES CONTAINED HEREIN ARE "CONSPICUOUS."
 - A. **Customer Indemnity Obligations.** Customer hereby releases Company from any liability for, and shall protect, defend, indemnify, and hold harmless Company, its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, insurers, and consultants (specifically excluding any member of Customer Group) of all of the foregoing, and its and their respective successors, heirs and assigns ("Company Group") from and against all costs (including the payment of reasonable attorneys' fees), losses, liabilities, demands, causes of action, damages, or claims of every type and character ("Claims"), arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of Customer its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, customers, insurers, invitees and consultants of all of the foregoing, and its and their respective successors, heirs and assigns ("Customer Group"), or (ii) loss of or damage to any property of any member of Customer Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.
 - B. **Company Indemnity Obligations.** Company hereby releases Customer from any liability for, and shall protect, defend, indemnify, and hold harmless Customer from and against all Claims arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of any member of Company Group, or (ii) loss of or damage to any property of any member of Company Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF CUSTOMER GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.
 - C. **Third Party Claims.** Notwithstanding the foregoing, to the extent of its negligence, Company and Customer shall each indemnify, defend and hold harmless from and against all Claims, of every type and character, which are asserted by third parties for bodily injury, death or loss or destruction of property or interests in property in any manner caused by, directly or indirectly resulting from, incident to, connected with or arising out of the work to be performed, Services to be rendered or Products or materials furnished to Customer. When personal injury, death or loss of or damage to property is the result of joint or concurrent negligence of Customer and Company, the indemnitor's duty of indemnification shall be in proportion to its allocable share of such negligence.
 - D. **Pollution.** Company agrees that it shall be totally responsible for, and shall protect, defend and indemnify, Customer for all losses, damages, claims, demands, costs, charges, and other expenses, including attorneys' fees, for any and all waste and/or hazardous substances which are in Company Group's exclusive possession and control and directly associated with Company Group's equipment and facilities, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF CUSTOMER GROUP. Customer shall assume all responsibility for, including control and removal of, and shall protect, defend and indemnify Company Group from and against all Claims arising directly or indirectly from all other pollution or contamination which may occur during the conduct of operations hereunder, including, but not limited to, that which may result from fire, blowout, cratering, seepage or any other uncontrolled flow of oil, gas, water or other substance, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF COMPANY GROUP.
 - E. **Wild Well.** Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group for any damages, expenses, losses, fines, penalties, costs, expert fees and attorneys' fees arising out of a fire, blow out, cratering, seepage or wild well, including regaining control thereof, debris removal and property restoration and remediation. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.
 - F. **Underground Damage.** Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group from and against any and all claims, liability and expenses resulting from operations related to the work under this agreement on account of injury to, destruction of, or loss or impairment of any property right in or to oil, gas or other mineral substance or water, if at the time of the act or omission causing such injury, destruction, loss or impairment said substance and not been reduced to physical possession above the surface of the earth, and for any loss or damage to any formation, strata, or reservoir beneath the surface of the earth. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.
 - G. The foregoing indemnities set forth in these CACTUS Purchase Terms are intended to be enforceable against the parties hereto in accordance with the express terms and scope hereof notwithstanding Texas' Express Negligence Rule or any similar directive that would prohibit or otherwise limit indemnities because of the negligence (whether sole, concurrent, active or passive, ordinary or gross) or other fault or strict liability of Company or Customer.
 - H. If a claim is asserted against one of the parties to this agreement which may give rise to a claim for indemnity against the other party hereto, the party against whom the claim is first asserted must notify the potential indemnitor in writing and give the potential indemnitor the right to defend or assist in the defense of the claim.
9. **RISK OF LOSS:**
 - A. Title and risk of loss shall pass to Customer upon delivery as specified in Article 11. Customer's receipt of any material delivered hereunder shall be an unqualified acceptance of, and a waiver by Customer of any and all claims with respect to, such material unless Customer gives Company written notice of claim within thirty (30) days after such receipt. Notwithstanding the foregoing, installation or use of materials or equipment shall unequivocally constitute irrevocable acceptance of said materials. Customer assumes all risk and liability for the results obtained by the use of any material or Products delivered hereunder in work performed by on behalf of Customer or in combination with other or substances. No claim of any kind, whether as to material delivered or for non-delivery of material, and whether or not based on negligence, shall be greater in amount than the purchase price of the


Cactus

Quotation

Quote Number : HBE0001018

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

Date: 09/08/2023
Valid For 30 Days
Page 5 of 5

material in respect of which such claim is made.

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

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

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

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

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

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

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

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

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

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

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

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

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


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

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

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

Gates Engineering & Services UK Ltd		<div style="text-align: center;"> <p>CERTIFICATE OF CONFORMITY</p>  </div>
Doc. Ref.	Form-056	
Revision	4	

[illegible]

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


			Certificate No:
<input type="checkbox"/> BURST	<input checked="" type="checkbox"/> HYDROSTATIC	<input type="checkbox"/> 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:	<p>Pressure tested with water at ambient temperature for 60 minutes at test pressure 1034 BAR,</p> <p>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</p>
Results:	<p>Pressure Loss: 11.4 Bar</p> <p>Acceptance Criteria: Pressure loss not to exceed - 34.47 Bar or 500 PSI</p>

GESUK Ltd	Third Party
 17/02/20	

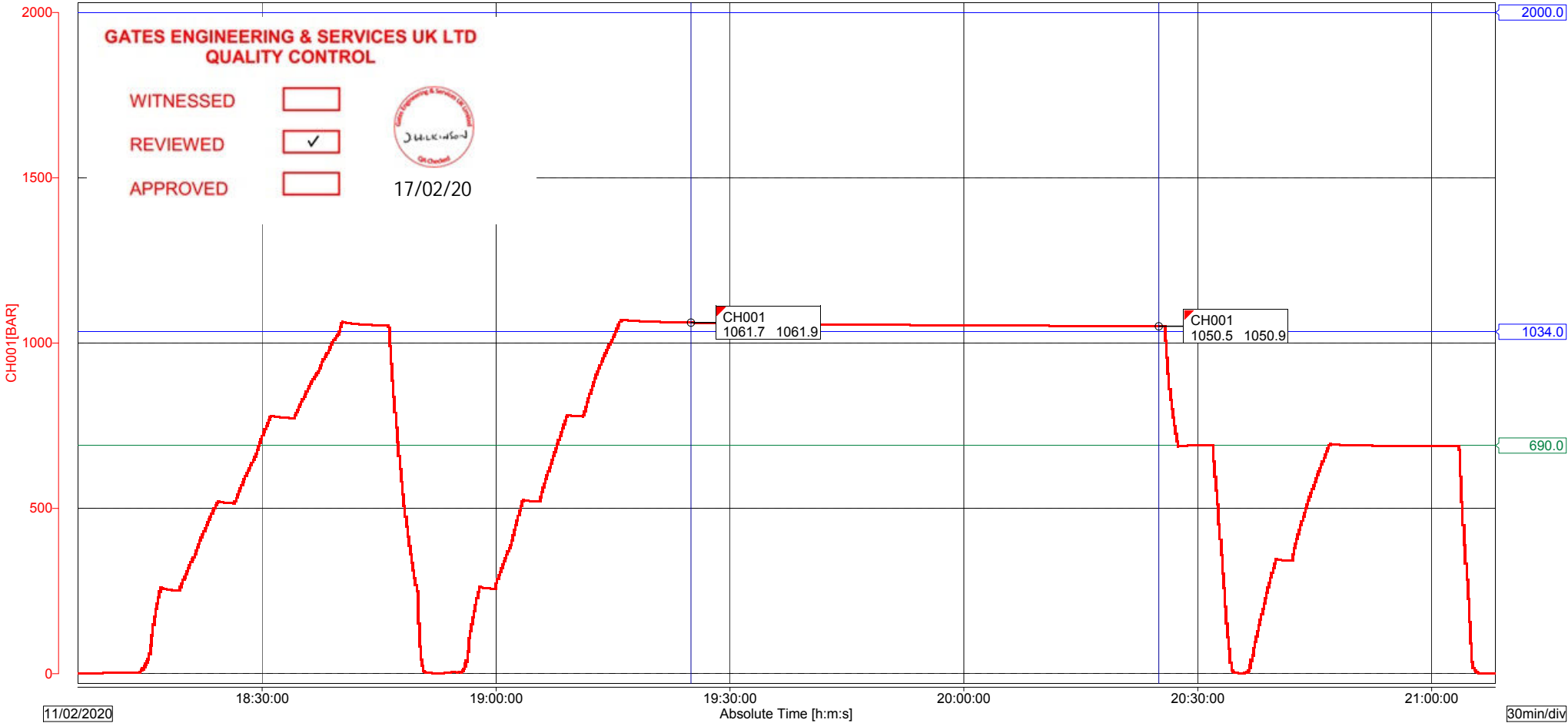
File Message : 120840 FAT
Device Type : DX2000
Serial No. : S5NC08915

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

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

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

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





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

NAME & ADDRESS OF COMPANY FOR WHOM THE EXAMINATION WAS MADE		ADDRESS OF THE PREMISES WHERE THE EXAMINATION WAS MADE		DATE OF REPORT	08/01/2020
Gates Engineering & Services UK Ltd Bassington Drive Bassington Industrial Estate Cramlington		Tusk Lifting Ltd 49D Sadler Forster Way Teesside Industrial Estate Stockton-On-Tees TS17 9JY		REPORT NO	13322
NE23 8AS				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		NAME OF THE PERSON AUTHENTICATING THE REPORT	
Jimmy Joyce, Company Approved Examiner		Julie Montgomery, Planner	
SIGNATURE		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



Full Member



William Hackett
Lifting Products Limited



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)

DUAL PURPOSE DOCUMENT

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

MANUFACTURER'S CERTIFICATE

CERTIFIED ON BEHALF OF THE COMPANY

T.J. BURGESS 17/12/2019

Authorised person for the configuration of the declaration documents: Tim Burgess, William Hackett Lifting Products, Alnwick, UK								
A/B	Batch	Lot No / Serial No	Product	Description	Qty	Working Load Limit	Proof Load	Min Breaking Load
A	P02637	643615/1-50	HNZZZ.100.TUSK	10mm grade 10 chain sling assembly. Comprising of: 1 x 4.75t Safety Bow Shackle, 1 x 10mm connector, 10mm grade 10 chain, 1 x 10mm connector and 1 x 4.75t Safety Bow Shackle.	50	4t		

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



William Hackett
Lifting Products Limited



IMB52628

3.1 Material Certificate

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



Safety is our first priority

061259

YOKE INDUSTRIAL CORP.

#39,33rd Road, Taichung Industrial Park,

TAICHUNG 407, TAIWAN

TEL: +886-4-2350 8088

FAX: +886-4-2350 1001

80059145-000730

IMB52628

Test Certificate

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: YUAK
Quantity: 1,800 PC

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

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

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

TESTING ACCORDING TO ASTM A952/A 952M, DIN PAS 1061, EN1677-1
ISO 9001:2015 Certification by DNV and API
Inspection Test Certificate meet the EN10204 3.1

TEST RESULT
Pass
Jason Lu
Dated: May 14, 2019
Qualification: QA Manager

Received by Q60-612021 8:58:02 AM Page 81 of 87



Safety is our first priority

06 1396

YOKE INDUSTRIAL CORP.

#39,33rd Road, Taichung Industrial Park

TAICHUNG 407, TAIWAN

TEL:+886-4-2350 8088

FAX:+886-4-2350 1001

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: 93kN
Mini Breaking Load: 373kN	Fatigue Rate: 70kN
Magnetic Flux: 100% of above quantity	20000 cycle
Crack Tested:	Impact Test: 42J
Working Load Limit: 4-75tonnes	(-40°C)

TESTING ACCORDING TO EN 13889, RR-C-271F, DNVGL-ST-E273, EN 12079-2, IMO/MS-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



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

Gates Engineering & Services UK Ltd
Bassington Drive
Bassington Industrial Estate
Cramlington

ADDRESS OF THE PREMISES WHERE THE EXAMINATION WAS MADE

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

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

NAME AND QUALIFICATION OF PERSON MAKING THE REPORT

Jimmy Joyce, Company Approved Examiner

NAME OF THE PERSON AUTHENTICATING THE REPORT

Julie Montgomery, Planner

SIGNATURE

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



Gates Engineering & Services UK Limited Certified True Copy

IML52690

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



CELISA
MANUFACTURING UK



UK MADE

Cert No: 0038/CPRL/RQ4002811/1
DOP: CELSAUK001 EN10025
Hot rolled structural steel products
LRV ID N: 0038

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

TS18 35A STOCKION United Kingdom																					United Kingdom			
MATERIAL	CAST	C	MN	SI	S	P	Cr	N	Ni	Cu	Mo	V	CE	Reh	Rm	A	T	Impact	Impact	Impact	Impact			
Hot rolled structural steel products		%	%	%	%	%	%	%	%	%	%	%	%	MPA	MPA	%	°C	J	J	J	J			
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	328	464	34.8								
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	325	467	35.3								
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	329	465	35.2								
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	323	465	35.2								
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.47	0.021	0.001	0.259	317	452	33.8								
S275 JR+AR FL130X12 L.6m	CM124207	0.10	0.56	0.16	0.035	0.022	0.124	0.009	0.14	0.47	0.021	0.001	0.259	323	451	33.8								
S275 JR+AR FL130X12 L.6m	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	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 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	298	462	37.6								
S275 JR+AR FL150X6 L.6m	CM127310	0.11	0.57	0.15	0.023	0.019	0.105	0.008	0.10	0.40	0.015	0.001	0.260	319	459	32.5								
S275 JR+AR FL150X6 L.6m	CM127310	0.11	0.57	0.15	0.023	0.019	0.105	0.008	0.10	0.40	0.015	0.001	0.260	318	457	37.5								
S275 JR+AR FL150X6 L.6m	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	320	448	33.2								
S275 JR+AR FL150X6 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	329	447	33.8								
S275 JR+AR FL150X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	326	448	33.9								
S275 JR+AR FL150X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	322	447	33.9								
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S275 JR+AR FL150X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	322	447	33.9								
S275 JR+AR FL150X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	322	447	33.9								
S275 JR+AR FL150X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	322	447	33.9								
S275 JR+AR FL150X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	322	447	33.9								
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S275 JR+AR FL150X15 L.6m	CM124647	0.08	0.53	0.14	0.0																			

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

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

Steel making process
Electric arc

Cardiff, 20.08.2019

Stuart Thomas
Quality Manager

CHECKED BY:

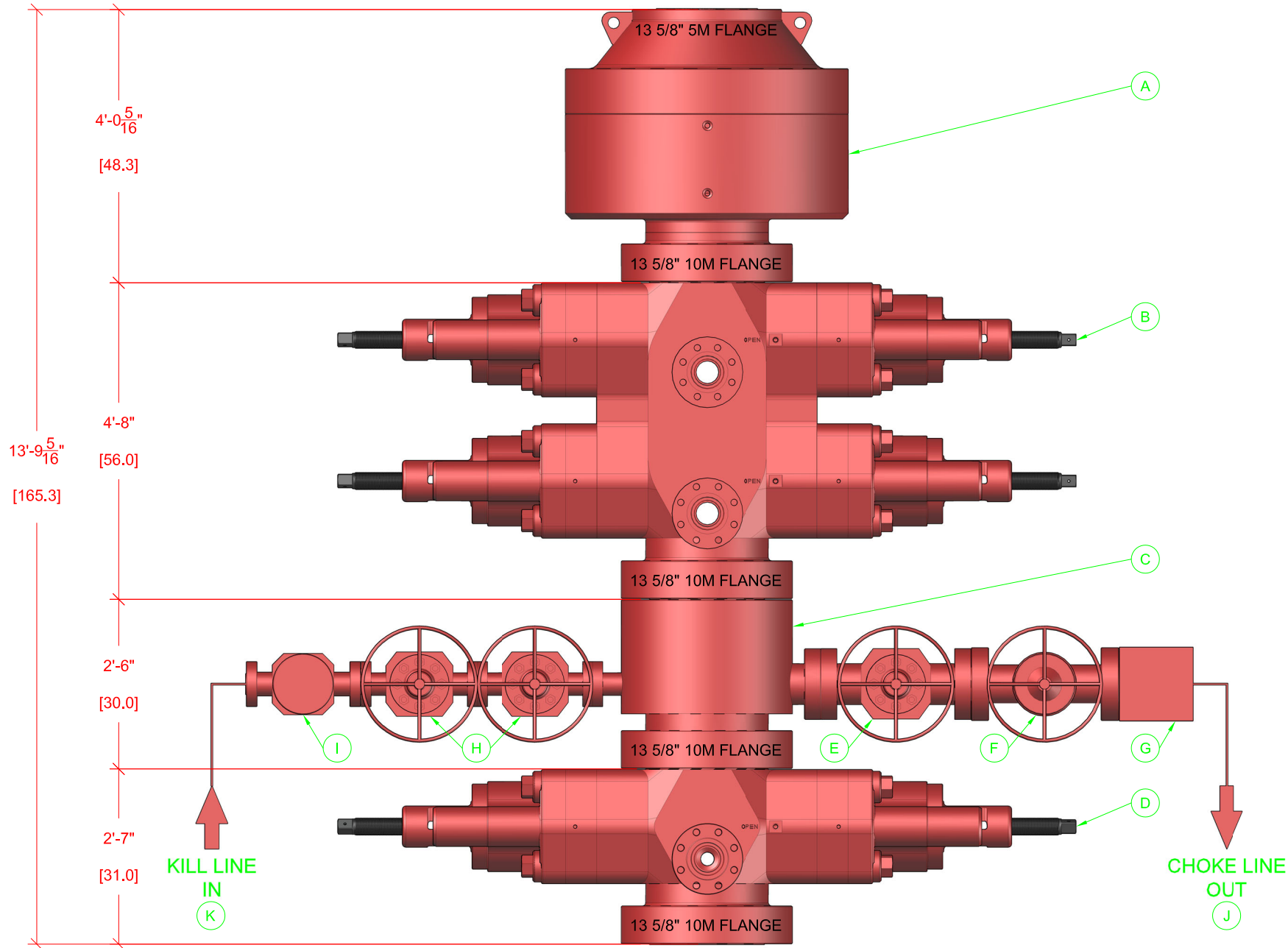
21.8.2019

11049

DATE

ORDER NO

CARTER STEEL LTD



BOP EQUIPMENT INFORMATION						
DESCRIPTION	MODEL	QTY	ITEM	DESCRIPTION	MODEL	QTY
ANNULAR BOP	13 5/8" 5M	1	G	STUDDED BLOCK	4 1/2" 10M	1
DOUBLE RAM BOP	13 5/8" 10M TYPE-U	1	H	GATE VALVE	2 1/2" 10M FC MANUAL	2
MUD CROSS	13 5/8" 10M	1	I	CHECK VALVE	2 1/2" 10M	1
SINGLE RAM BOP	13 5/8" 10M TYPE-U	1	J	CHOKER HOSE	4 1/2" 10M	1
GATE VALVE	4 1/2" 10M FC MANUAL	1	K	KILL HOSE	2 1/2" 10M	1
HCR VALVE	4 1/2" 10M HCR	1	L			

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				DECIMAL	DIMENSION	CONCENTRICITY
				X.X	±.1	.1 F.J.R.
				X.XX	±.06	.06 F.J.R.
				X.XXX	±.010	.010 F.J.R.
				ANGLES ± .5 DEGREES		
SYM	DATE	REVISION	BY	ACAD FILE: CAC148-A-005-00-RO		

CACTUS Drilling Co., L.L.C. Oklahoma City, OK, U.S.A.		Tel: 405-577-5347 Fax: 405-577-9306	
FILE: R-148_BOP.dwg		TITLE: RIG 148 BOP STACK-UP	
DWG BY: IJA	9/10/2021	SCALE: 1:25	
CHK BY:		SIZE A	
APP BY:		CAC148-A005	

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.)



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

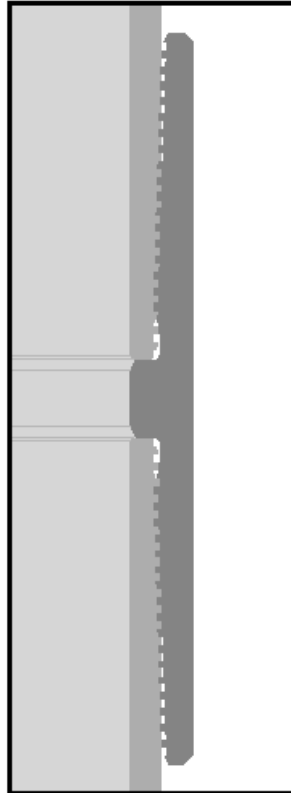
Pipe Dimensions
5.500 Nominal Pipe Body O.D. (in.)
4.670 Nominal Pipe Body I.D. (in.)
0.415 Nominal Wall Thickness (in.)
23.00 Nominal Weight (lbs./ft.)
22.56 Plain End Weight (lbs./ft.)
6.630 Nominal Pipe Body Area (sq. in.)

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

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

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

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



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

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

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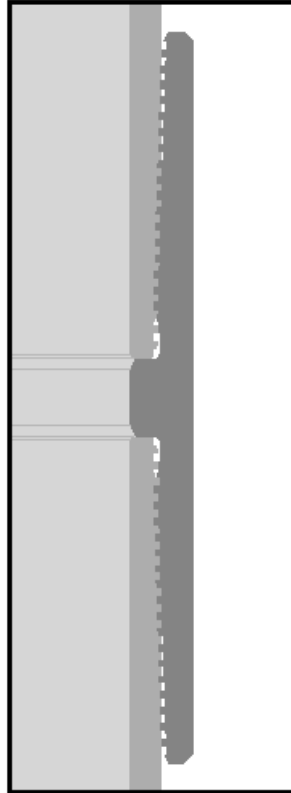
10/08/2020 3:58 PM



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.



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

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

CONDITIONS

Action 354759

CONDITIONS

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

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	7/1/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	7/1/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	7/1/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	7/1/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	7/1/2024