

Well Name: TATANKA FED COM	Well Location: T26S / R35E / SEC 2 / TR C / 32.079512 / -103.34228	County or Parish/State: LEA / NM
Well Number: 502H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM12280	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549870	Operator: FRANKLIN MOUNTAIN ENERGY LLC	

Notice of Intent

Sundry ID: 2840759

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/10/2025

Time Sundry Submitted: 02:07

Date proposed operation will begin: 04/01/2025

Procedure Description: Cimarex Energy Co requests the following changes to the Tatanka Fed Com 502H (API 30-025-49870): Well number change from 502H to 652H SHL change from 20 FNL/1422 FWL to 55 FNL/1282 FWL BHL change from 150 FSL/1877 FWL to 100 FSL/2310 FWL Formation change from 2nd Bone Spring to 3rd Bone Spring Carb TVD change from 10,739 to 11,620' Please see the attached updated plat and documents for this request.

NOI Attachments

Procedure Description

Tatanka_652H_Sundry_Submittal_04102025_20250410091954.pdf

Well Name: TATANKA FED COM

Well Location: T26S / R35E / SEC 2 /
TR C / 32.079512 / -103.34228County or Parish/State: LEA /
NM

Well Number: 502H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM12280

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002549870

Operator: FRANKLIN MOUNTAIN
ENERGY LLC

Conditions of Approval

Additional

CHOKE_HOSE_M15486_20250415093955.pdf

Tatanka_Fed_Com_652H_Dr_COA_20250415093955.pdf

2_26_35_D_Sundry_ID_2840759_Tatanka_Fed_Com_652H_Lea_NM12280_Franklin_Mountain_Energy_LLC_13_22c_10_27_2021_LV_20250415093955.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SHELLY BOWEN

Signed on: APR 10, 2025 09:20 AM

Name: FRANKLIN MOUNTAIN ENERGY LLC

Title: Regulatory Analyst

Street Address: 6001 DEAUVILLE BLVD STE 300N

City: MIDLAND State: TX

Phone: (432) 620-1644

Email address: DL_PBUREGULATORY@COTERRA.COM

Field

Representative Name:

Street Address:

City: State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 04/15/2025

Signature: Chris Walls

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUBMIT IN TRIPPLICATE - Other instructions on page 2			5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name
2. Name of Operator			7. If Unit of CA/Agreement, Name and/or No.
3a. Address		3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.R.M., or Survey Description)			9. API Well No.
			10. Field and Pool or Exploratory Area
			11. Country or Parish, State

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

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

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

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title
Signature	Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office		

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

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

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

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

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

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

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Location of Well

0. SHL: TR C / 20 FNL / 1422 FWL / TWSP: 26S / RANGE: 35E / SECTION: 2 / LAT: 32.079512 / LONG: -103.34228 (TVD: 0 feet, MD: 0 feet)
PPP: TR C / 627 FNL / 1877 FWL / TWSP: 26S / RANGE: 35E / SECTION: 2 / LAT: 32.077843 / LONG: -103.340807 (TVD: 10739 feet, MD: 11091 feet)
PPP: SENW / 2647 FNL / 1875 FWL / TWSP: 26S / RANGE: 35E / SECTION: 2 / LAT: 32.072293 / LONG: -103.340802 (TVD: 10739 feet, MD: 13100 feet)
PPP: NENW / 0 FNL / 1877 FWL / TWSP: 26S / RANGE: 35E / SECTION: 11 / LAT: 32.065054 / LONG: -103.340795 (TVD: 10739 feet, MD: 15700 feet)
BHL: TR N / 150 FSL / 1877 FWL / TWSP: 26S / RANGE: 35E / SECTION: 11 / LAT: 32.05094 / LONG: -103.340782 (TVD: 10739 feet, MD: 20879 feet)

CONFIDENTIAL



CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B

№: LT2024-156-001

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

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



HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

No: 24090301

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

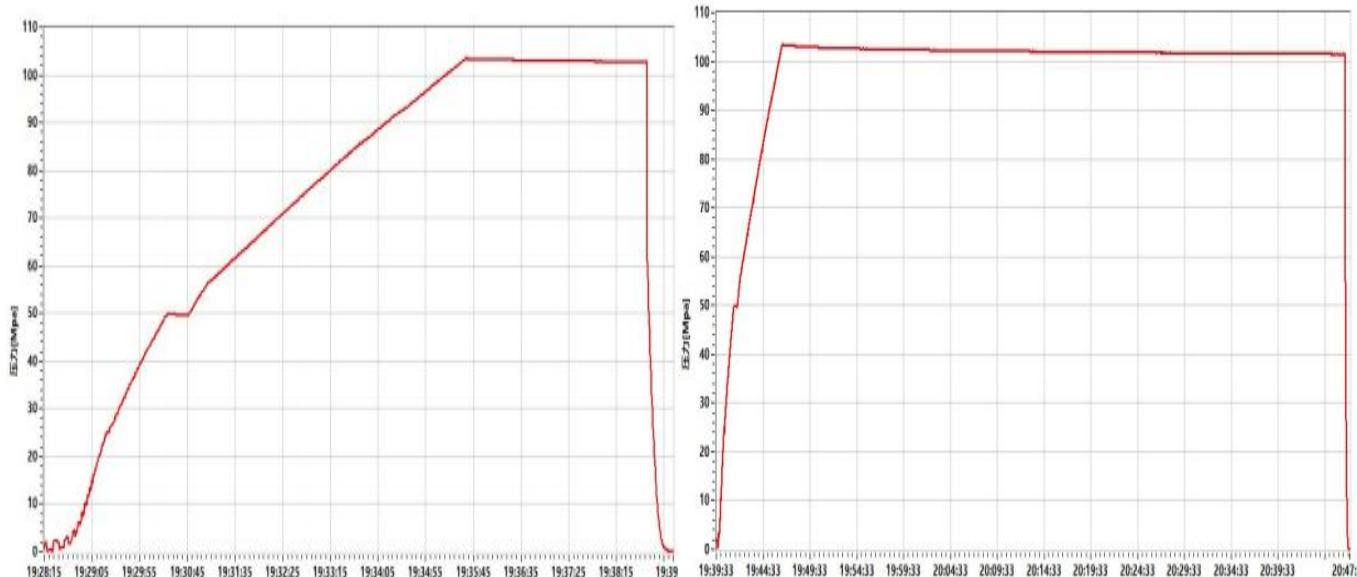
Rate of length change

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

Hydrostatic testing

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

Graph of pressure testing:



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



CERTIFICATE OF CONFORMANCE

No:LT24090307

Product Name: Choke And Kill Hose

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

Serial Number: VTC-7660257

Customer number: PO890145-001

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

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

QC Manager:

Jane C

Date:Sep 3, 2024

16C-0403 The API logo, which is a diamond shape containing the letters "API" with a registered trademark symbol.

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

The LETONE logo, featuring a stylized red and black "L" and "T" intertwined, with the word "LETONE" in a bold, black, sans-serif font to its right.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Cimarex Energy Company
LOCATION:	Section 2, T.26 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Tatanka Fed Com 652H
ATS/API ID:	3002549870
APD ID:	10400078071
Sundry ID:	2840759

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1110 feet** (a minimum of **25 feet (Lea County)**) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.

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

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

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

Option 1:

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

Option 2:

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

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record),

or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

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

GENERAL REQUIREMENTS

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

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

Lea County

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

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

Long Vo (LVO) 4/15/2025

Tatanka Fed Com 652H

13 3/8		surface csg in a		17 1/2	inch hole.	Design Factors			Surface			
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	48.00		h 40	stc	6.04	1.6	0.64	1,110	4	1.11	3.26	53,280
"B"				stc		0						0

w/8.4#/g mud, 30min Sfc Csg Test psig: 727

Tail Cmt does not circ to sfc. Totals: 1,110

53,280

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	529	836	771	8	8.33	1560	2M	1.56

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.

Site plan (pipe racks) Not yet as per OCD 10-27-2021 LV.xlsm

9 5/8		casing inside the		13 3/8	Coupling	Design Factors			Int 1			
Segment	#/ft	Grade			Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		hck 55	ltc	3.02	1.56	0.69	5,209	1	1.24	2.71	208,360
"B"					0							0

w/8.4#/g mud, 30min Sfc Csg Test psig:

The cement volume(s) are intended to achieve a top of

0

ft from surface or a

1110

Totals: 5,209

Class 'H' tail cmt yld > 1.20

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.76, b, c, d All > 0.70, OK.

5 1/2		casing inside the		9 5/8	Coupling	Design Factors			Prod 1			
Segment	#/ft	Grade			Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	23.00		p 110	btc	2.71	2.54	2.16	21,816	2	3.89	4.57	501,768
"B"					0							0

w/8.4#/g mud, 30min Sfc Csg Test psig: 2,556

The cement volume(s) are intended to achieve a top of

5009

ft from surface or a

200

Totals: 21,816

Class 'C' tail cmt yld > 1.35

#N/A		5 1/2		Design Factors			<Choose Casing>					
Segment	#/ft	Grade		Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"				0.00		0		0				0
"B"				0.00		0		0				0

w/8.4#/g mud, 30min Sfc Csg Test psig:

Cmt vol calc below includes this csg, TOC intended

#N/A

ft from surface or a

#N/A

Totals: 0

#N/A

Capitan Reef est top XXXX.

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

WELL LOCATION INFORMATION WC-025 G-08 S253534O; BONE

API Number 30-025-54987	Pool Code 08158 97088	Pool Name WC-025 G-08 S253534O; BONE SPRING
Property Code	Property Name TATANKA FED COM	
OGRID No. 331595	Operator Name FRANKLIN MOUNTAIN ENERGY LLC	
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL D	Section 2	Township 26S	Range 35E	Lot	Ft. from N/S 55 NORTH	Ft. from E/W 1282 WEST	Latitude (NAD 83) 32.079416°	Longitude (NAD 83) -103.342732°	County LEA
------	-----------	--------------	-----------	-----	-----------------------	------------------------	------------------------------	---------------------------------	------------

Bottom Hole Location

UL N	Section 11	Township 26S	Range 35E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.050802°	Longitude (NAD 83) -103.339385°	County LEA
------	------------	--------------	-----------	-----	------------------------	------------------------	------------------------------	---------------------------------	------------

Dedicated Acres 320	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers. Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No				

Kick Off Point (KOP)

UL C	Section 2	Township 26S	Range 35E	Lot	Ft. from N/S 100 NORTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.079292°	Longitude (NAD 83) -103.339413°	County LEA
------	-----------	--------------	-----------	-----	------------------------	------------------------	------------------------------	---------------------------------	------------

First Take Point (FTP)

UL C	Section 2	Township 26S	Range 35E	Lot	Ft. from N/S 100 NORTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.079292°	Longitude (NAD 83) -103.339413°	County LEA
------	-----------	--------------	-----------	-----	------------------------	------------------------	------------------------------	---------------------------------	------------

Last Take Point (LTP)

UL N	Section 11	Township 26S	Range 35E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.050802°	Longitude (NAD 83) -103.339385°	County LEA
------	------------	--------------	-----------	-----	------------------------	------------------------	------------------------------	---------------------------------	------------

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
---	---	-------------------------

OPERATOR CERTIFICATIONS					SURVEYOR CERTIFICATIONS				
<p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</p>					<p>I hereby certify that the well location shown on this plan was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p></p>				
<p> 4/10/2025</p>					<p>Signature and Seal of Professional Surveyor</p>				
<p>Signature: Shelly Bowen</p>					<p>23782 April 19, 2021</p>				
<p>Printed Name: Shelly.Bowen@coterra.com</p>					<p>Certificate Number: 23782 Date of Survey: April 19, 2021</p>				
<p>Email Address: Shelly.Bowen@coterra.com</p>									

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

Property Name TATANKA FED COM	Well Number 652H	Drawn By Z.L. 04-30-21	Revised By REV: 4 L.T.T. 03-28-25 (SHL MOVE)
----------------------------------	---------------------	---------------------------	---

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

NOTE:

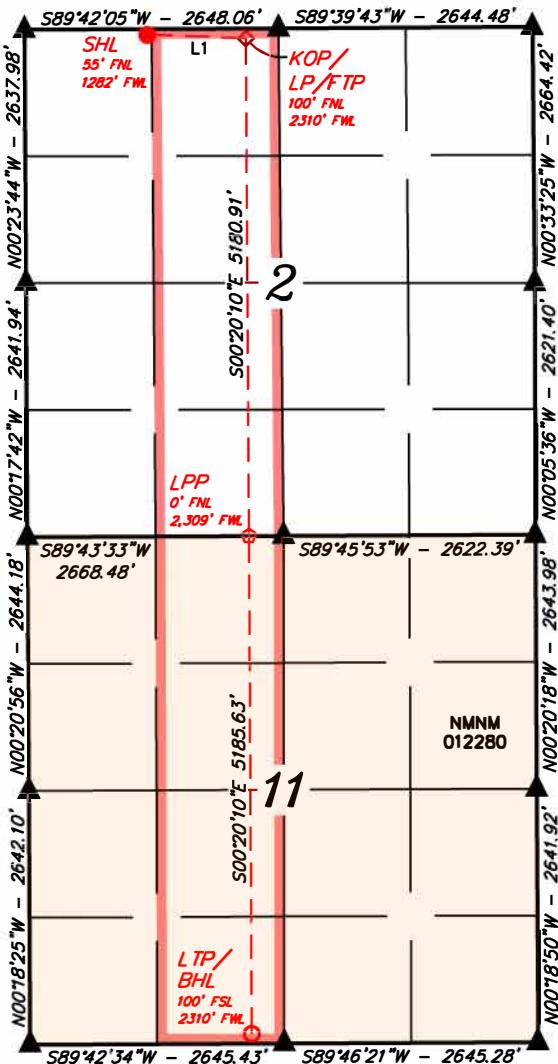
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°04'45.90" (32.079416")
LONGITUDE = -103°20'33.83" (-103.342732")
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°04'45.44" (32.079289")
LONGITUDE = -103°20'32.17" (-103.342270")
STATE PLANE NAD 83 (N.M. EAST)
N: 394037.28' E: 848153.99'
STATE PLANE NAD 27 (N.M. EAST)
N: 393979.40' E: 806966.38'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°04'45.45" (32.079292")
LONGITUDE = -103°20'21.89" (-103.339413")
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°04'45.00" (32.079166")
LONGITUDE = -103°20'20.23" (-103.338951")
STATE PLANE NAD 83 (N.M. EAST)
N: 394001.94' E: 849182.39'
STATE PLANE NAD 27 (N.M. EAST)
N: 393944.05' E: 807994.76'

NAD 83 (LPP)
LATITUDE = 32°03'54.19" (32.065054")
LONGITUDE = -103°20'21.84" (-103.339399")
NAD 27 (LPP)
LATITUDE = 32°03'53.74" (32.064927")
LONGITUDE = -103°20'20.18" (-103.338938")
STATE PLANE NAD 83 (N.M. EAST)
N: 388822.05' E: 849234.39'
STATE PLANE NAD 27 (N.M. EAST)
N: 388764.31' E: 808046.56'

NAD 83 (LTP/BHL)
LATITUDE = 32°03'02.89" (32.050802")
LONGITUDE = -103°20'21.79" (-103.339385")
NAD 27 (LTP/BHL)
LATITUDE = 32°03'02.43" (32.050675")
LONGITUDE = -103°20'20.13" (-103.338925")
STATE PLANE NAD 83 (N.M. EAST)
N: 383637.45' E: 849286.43'
STATE PLANE NAD 27 (N.M. EAST)
N: 383579.85' E: 808098.39'



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S87°47'35"E	1029.16'

1. Geological Formations

TVD of target 11,620'
MD at TD 21.816'

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	820	N/A	
Top of Salt	1203	N/A	
Castille	3400	N/A	
Base of Salt/Lamar	5185	N/A	
Top of Delaware Sands/Bell Canyon	5229	Hydrocarbons	
Cherry Canyon	6079	Hydrocarbons	
Brushy Canyon	7657	Hydrocarbons	
Basal Brushy Canyon	8747	N/A	
Bone Spring Lime	9004	N/A	
Leonard/Avalon Sand	9018	Hydrocarbons	
Avalon	9215	Hydrocarbons	
1st Bone Spring Sand	10286	Hydrocarbons	
2nd Bone Spring Sand	10813	Hydrocarbons	
3rd Bone Spring Carb	11499	Hydrocarbons	
3rd Bone Spring Carb - Target	11620	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	850	850	13-3/8"	48.00	H-40	ST&C	2.01	4.70	7.89
12 1/4	0	5209	5209	9-5/8"	40.00	HCK-55	LT&C	1.41	1.46	2.69
8 3/4	0	11123	11123							
8 3/4	11123	21816	11620	5-1/2"	23.00	P-110	BT&C	2.53	2.15	(3.08)
							BLM Minimum Safety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	N
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	# Skns	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	334	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	195	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	1011	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	292	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	592	10.30	3.64	22.18	12	Lead: Tuned Light + LCM
	3120	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	41
Intermediate	0	49
Production	5009	

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

4. Pressure Control Equipment

<input checked="" type="checkbox"/> 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
12 1/4	13 5/8	10M	Annular	5M	100% of working pressure
			Blind Ram		10M
			Pipe Ram		
			Double Ram	X	
			Other		
8 3/4	13 5/8	10M	Annular	5M	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		

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

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 850'	Fresh Water	7.83 - 8.33	28	N/C
850' to 5209'	Brine Water	9.50 - 10.00	30-32	N/C
5209' to 21824'	Water Based Mud	9.00 - 9.50	40-80	N/C

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

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

6. Logging and Testing Procedures

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

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	5740 psi
Abnormal Temperature	No

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

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

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

BOPE Additional Information & Testing

1. After running the first string of casing, a 10M BOP/BOPE system with 5M annular will be installed. BOPs will be tested according to Onshore Order #2. BOPE will be tested to full rated pressure (10K for all BOPE except the annular, which is tested to 5K). For the low test, the system will be tested to 250 psi.

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

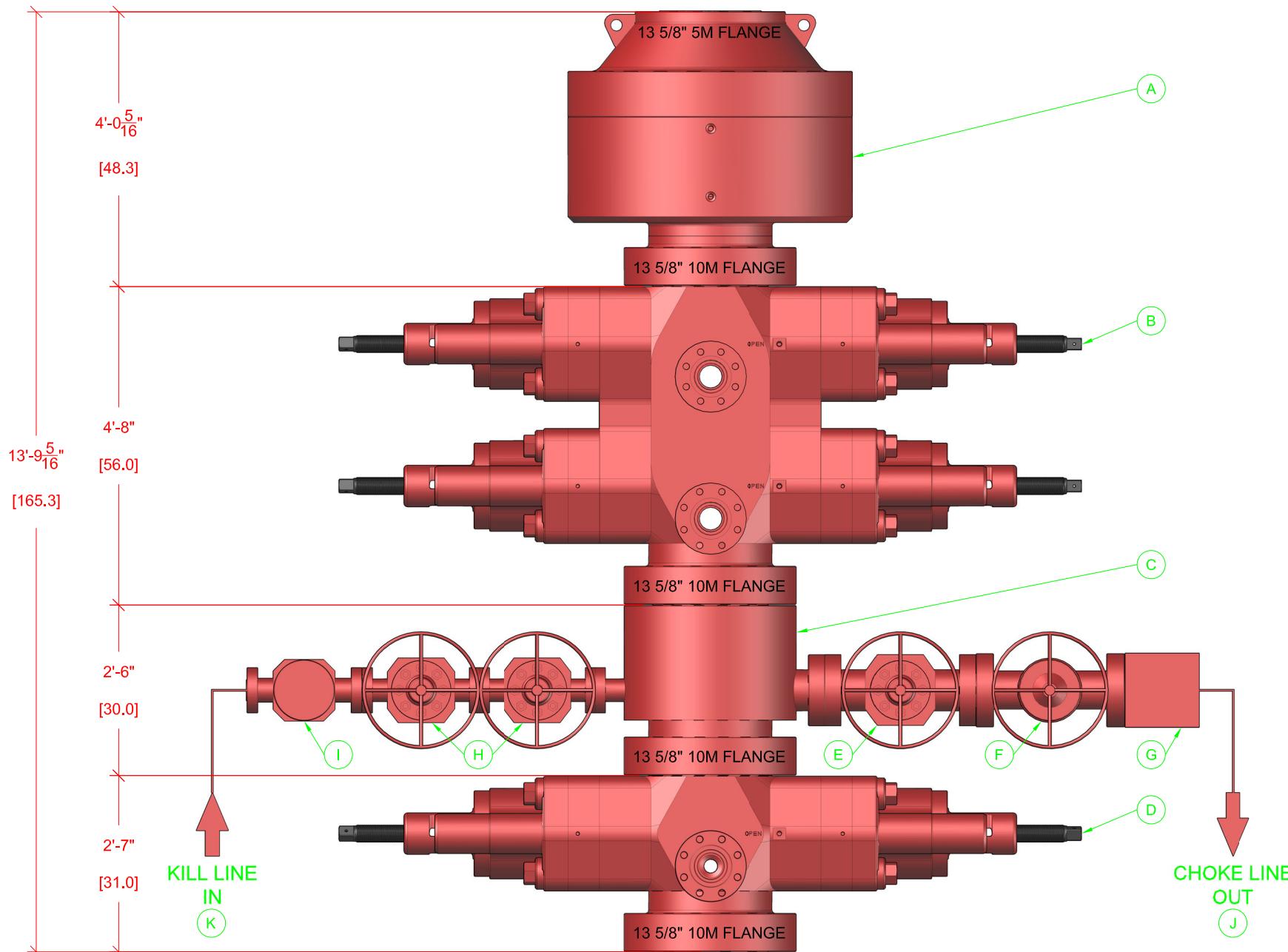
3. A remote kill line is included in the BOPE system

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

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

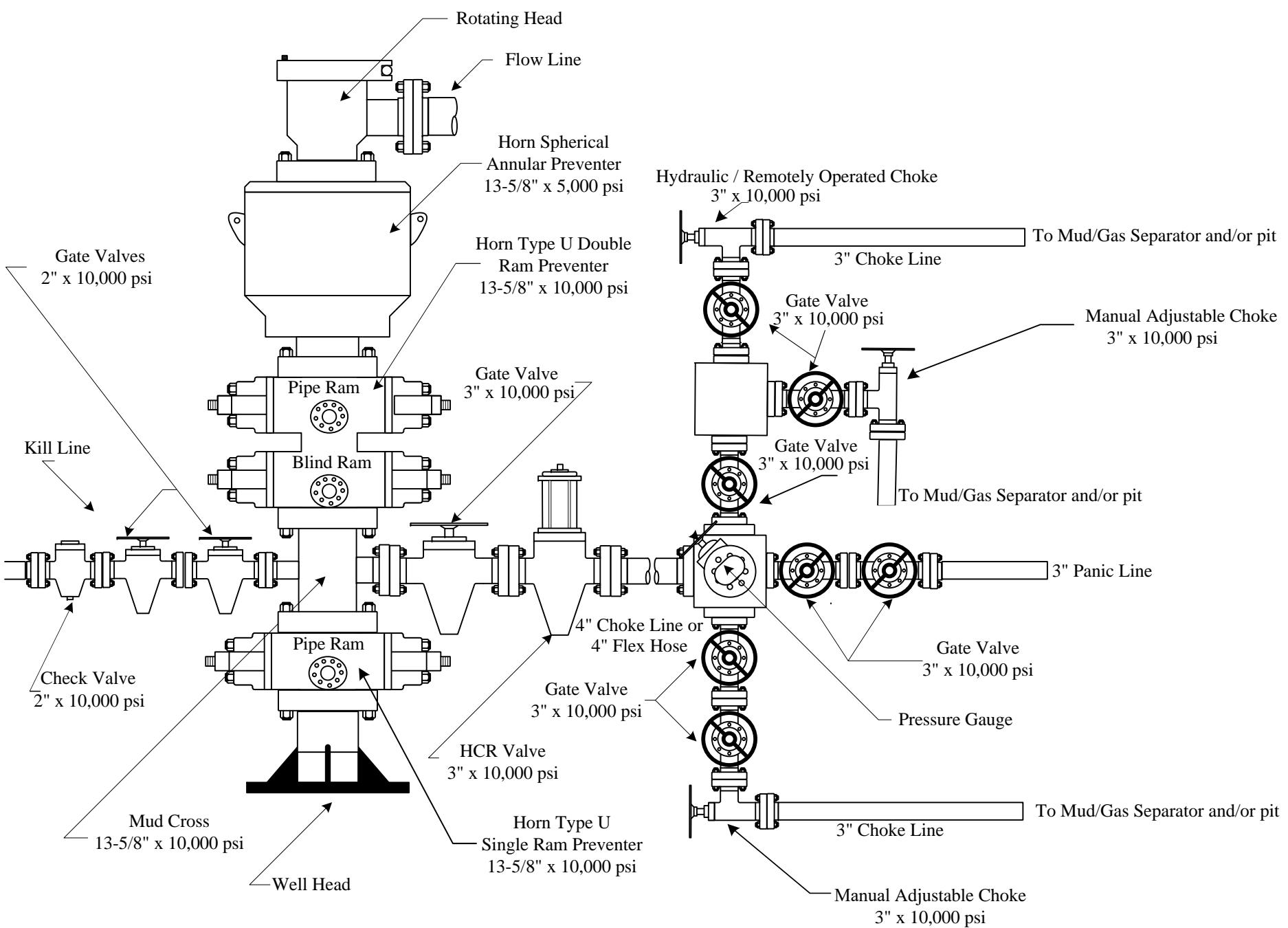
Additional Well Control Notes

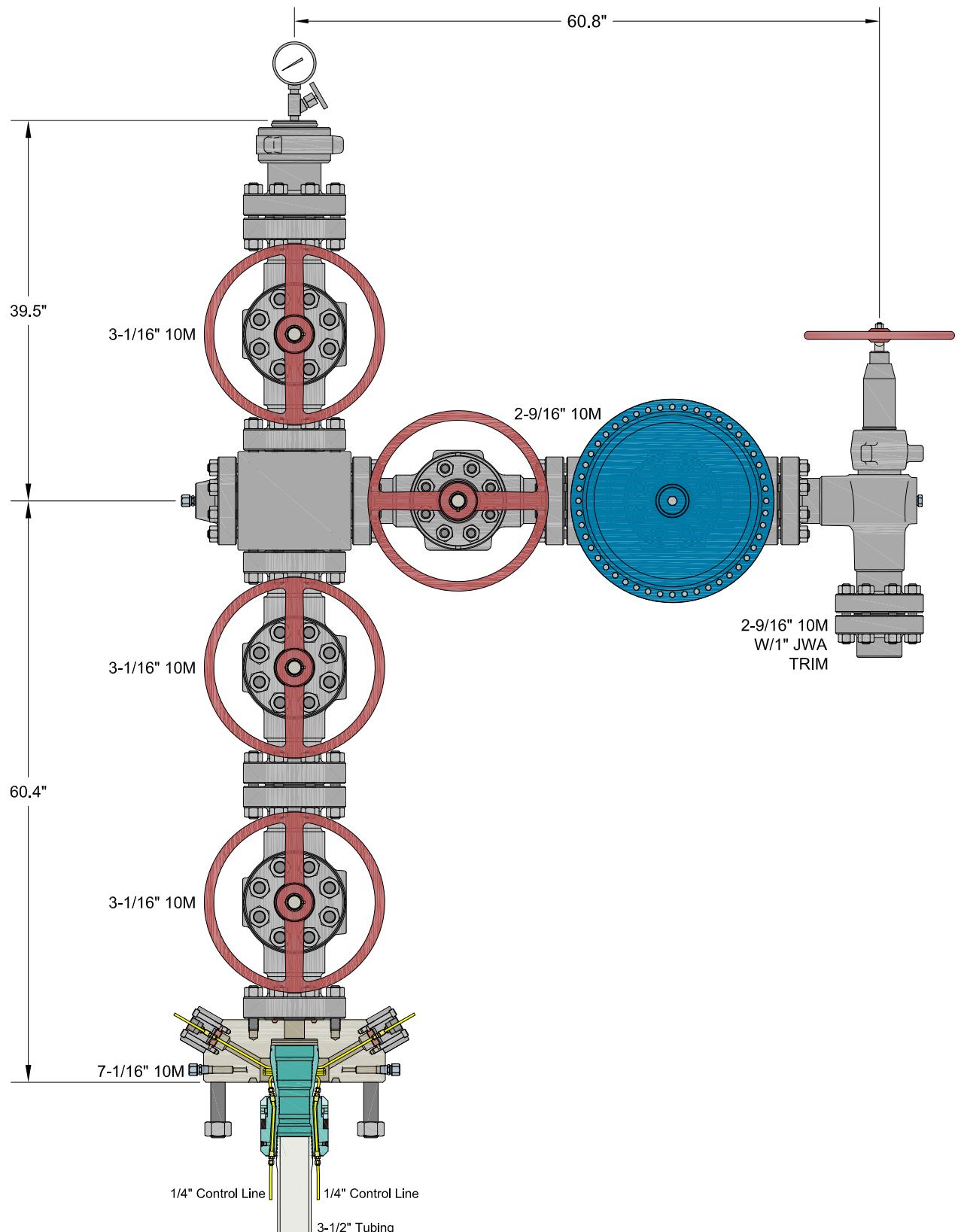
1. In the event wellbore pressure encroaches to the maximum rated pressure of the annular, primary pressure control will be switched to the higher rated components (i.e., switch from annular to pipe rams) – upper pipe rams will be closed, and the annular opened in order to not exceed maximum rated pressures.



BOP EQUIPMENT INFORMATION

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





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

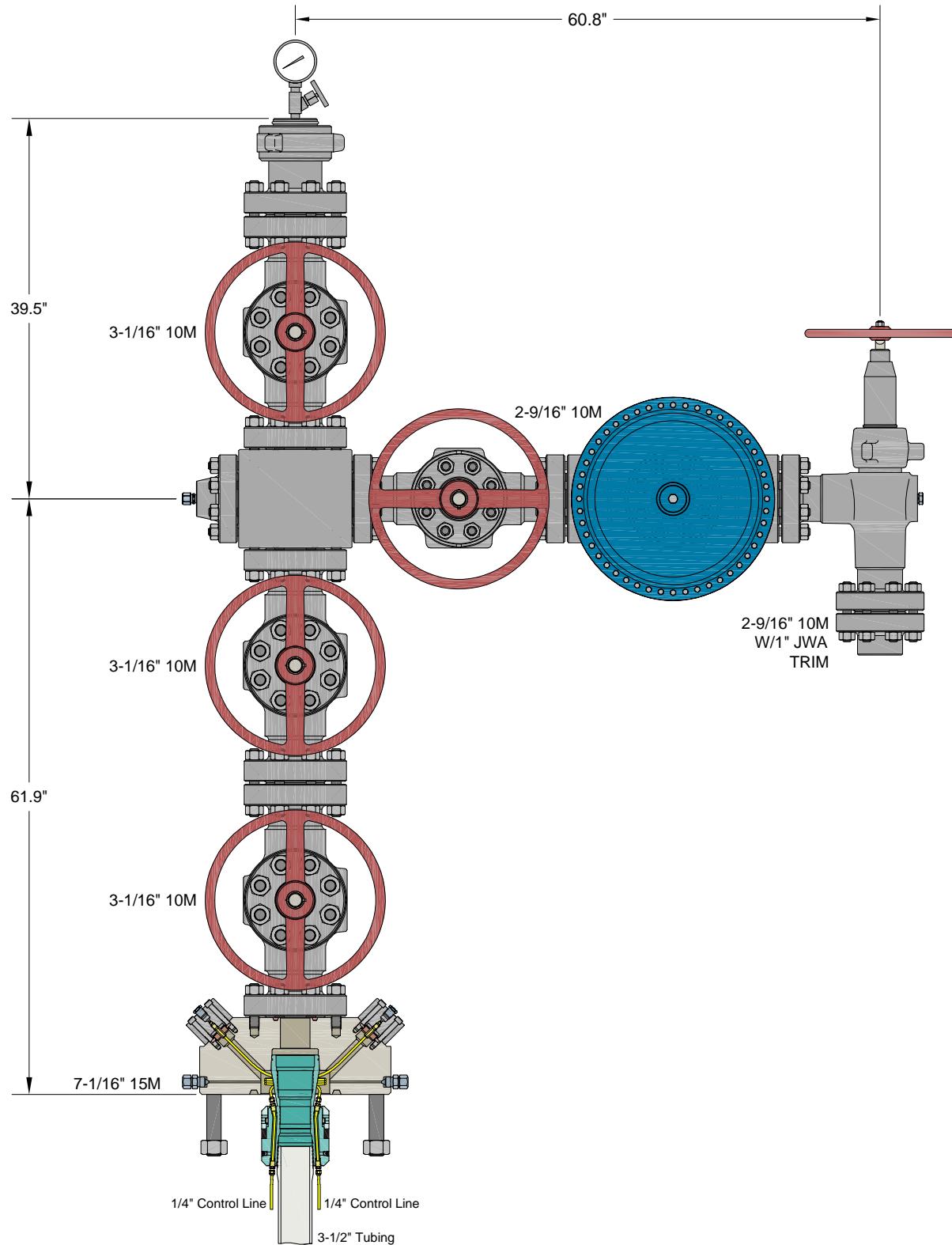
ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

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		



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

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

**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

Ship To: 1016

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

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

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

CIMAREX

HOBBS, NM

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

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - \$49,338.02

CACTUS CONTACT:

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

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

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

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


Cactus
Quotation
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 TREECAP,NEWAY,BHTA,B15A,3-1/16 10M X 3-1/2 EU ILT,W/1/2 NPT & 3.06 MIN BORE,MONOGRAMMED,TEMP PU,MATL EE,PSL2	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): MATL 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

Page 3 of 5

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

OPTIONAL 15M ADAPTER

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

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

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

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


Cactus

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

Page 4 of 5

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

- 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.
- 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.
- 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 (1%) 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.
- 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.
- 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.
- 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.
- 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.
- 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".
- 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.
- 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 COMPANY GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.
- 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.
- 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.
- 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.
- 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.
- Forgoing indemnities:** 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.
- 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.
- RISK OF LOSS:**
- 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


CactusTM

Quotation

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

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

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.

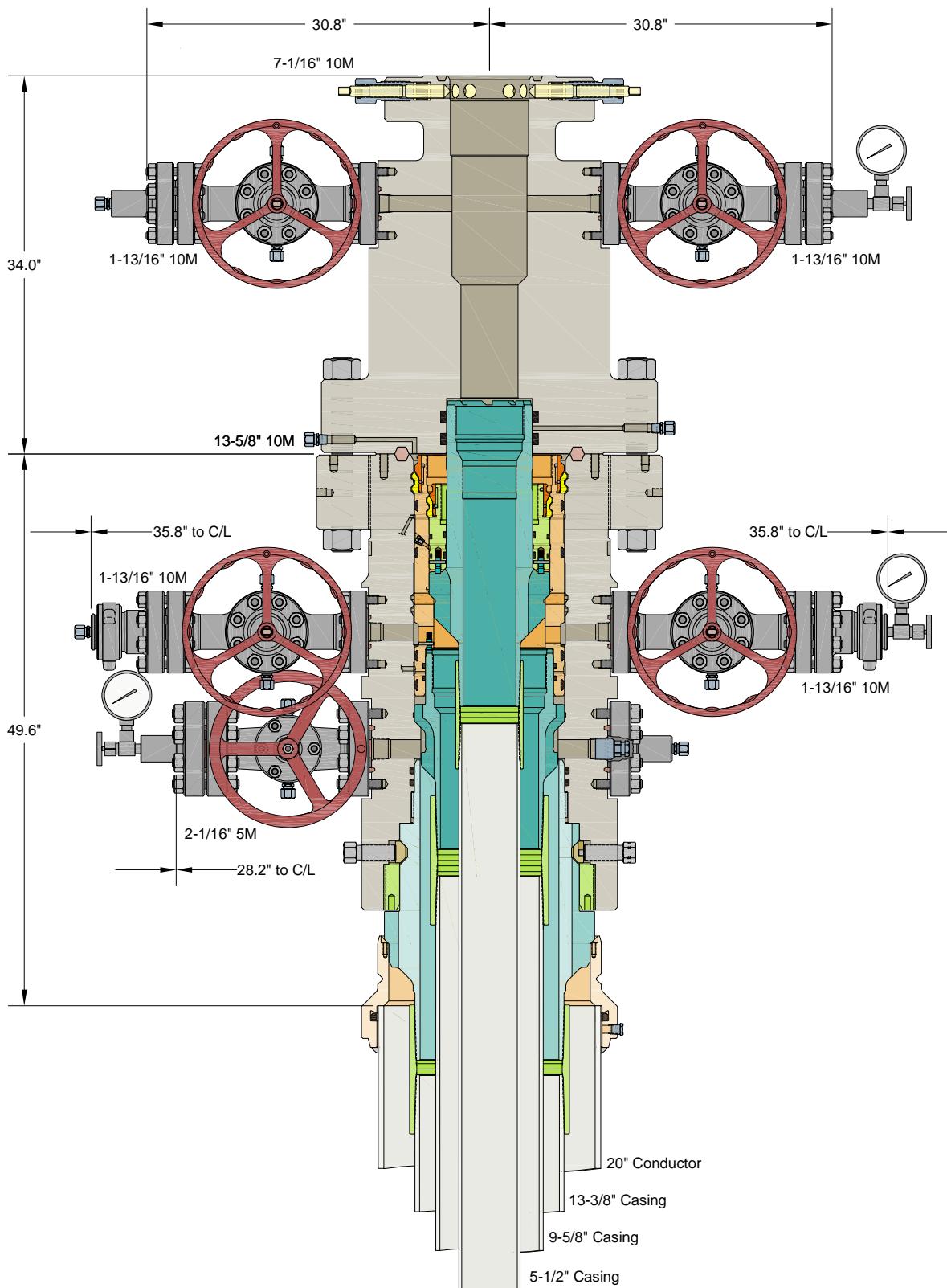
20. **CHOICE OF LAW.** THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF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

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

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

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

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



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

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

**CIMAREX
HOBBS, NM**

20" x 13-3/8" x 9-5/8" x 5-1/2" MBU-3T-CFL Wellhead Sys.
With 13-5/8" 10M x 7-1/16" 10M CTH-DBLHPS Tubing Head
And 9-5/8" & 5-1/2" Fluted Mandrel Casing Hangers

DRAWN	VJK	01MAY24
APPRV		
DRAWING NO.		HBE0001215

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	Kermit	432-586-2577	Winkler County Memorial	432-586-5864
		McCamey	432-652-8232	McCamey Hospital	432-652-8626
Loving County	432-377-2411	Mentone			
Irion County	325-835-2551	Mertzon			
Ward County	432-943-6703	Monahans	432-943-2211	Ward Memorial Hospital	432-943-2511
Ector County	432-335-3050	Odessa	432-335-4650	Odessa Regional Hosp.	432-582-8340
Crockett County	325-392-2661	Ozona	325-392-2626		
Reeves County	432-445-4901	Pecos	505-757-6511	Reeves County Hospital	432-447-3551
Yoakum County	806-456-2377	Plains	806-456-2288		
Garza County	806-495-3595	Post			
Upton County	432-693-2422	Rankin			
Coke County	915-453-2717	Robert Lee			
		Roscoe	325-766-3931		
Hockley County	806-894-3126	Levelland	806-894-3155	Covenant Health	806-894-4963
Tom Green County	325-655-8111	San Angelo	325-657-4355	San Angelo Comm. Med.	325-949-9511
Gaines County	432-758-9871	Seminole	432-758-3621	Memorial Hospital	432-758-5811
Terrell County	432-345-2525	Sanderson			
Scurry County	325-573-3551	Snyder	325-573-3546	DM Cogdell Memorial	325-573-6374
Sterling County	325-378-4771	Sterling City			
Nolan County	325-235-5471	Sweetwater	325-235-8130	Rolling Plains Memorial	325-235-1701
Culberson County	432-283-2060	Van Horn		Culberson Hospital	432-283-2760
New Mexico					
Lea County	505-396-3611	Knowles	505-392-7469	Lea Reg Med Ctr	575-492-5000
Eddy County	575-887-7551	Carlsbad	575-885-3125	Carlsbad Medical	575-887-4100
		Artesia	575-746-5050	Artesia Hospital	575-748-3333
Roosevelt County	575-356-4408				
Chaves County	575-624-7590				
Ground Ambulance Services					
Reeves County Medical			Pecos, TX		432-447-3551

Coterra: Well Control Plan



Well Control Plan

Warning Signs of a Kick

If a kick is ever suspected, perform flow check.

While Drilling:

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

While Tripping:

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

While Out of the Hole:

1. Flow
2. Pit gain

Well Control Procedures with Diverter

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

If rotating head is installed:

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

Coterra: Well Control Plan

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

If rotating head is not installed:

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

Well Control Procedures

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

General Well Control

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

Hard Shut-In

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

Coterra: Well Control Plan

Flow Check when on Bottom

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

Shutting in while Drilling

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

Flow Check while Tripping

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

Shutting in while Tripping

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

Shutting in while Out of Hole

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

Information to Record while Shut-In

1. Shut in drill pipe pressure every 5 minutes

Coterra: Well Control Plan

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

H2S with Annular Diverter:

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

H2S with BOP's:

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

Procedure for Closing Blind Rams

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

Procedure for Opening Blind Rams

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

Coterra: Well Control Plan

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

BOP Drills

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

Choke Manifold Freeze Prevention

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



Coterra Tatanka Fed Com 652H Rev1 kFc 07Apr25 Anti-Collision Summary Report

Analysis Date-24hr Time: April 07, 2025 - 04:05 PM (UTC 0)
Client: COTERRA
Field: nm lea county (nad 83)
Structure: Coterra - Tatanka Fed Com Pad Lot (D)
Slot: Tatanka Fed Com 652H
Well: Tatanka Fed Com 652H
Borehole: Tatanka Fed Com 652H
Scan MD Range: 0.00ft ~ 21816.83ft

Analysis Method: 3D Least Distance
Reference Trajectory: Coterra Tatanka Fed Com 652H Rev1 kFc 07Apr25 (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: 2024.5.0.1
Database \ Project: Tatanka Fed Com 652H-COTERRA

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

Offset Trajectories Summary

Offset Selection Criteria

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

4 out of 5 are selected

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert
	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.

30-025-27614 TALCO UNIT 2 INC Only to 14256ft - P (DefinitiveSurvey) - Fail Major

4616.73	32.81	4613.34	4583.93	3262.58	MAS = 10.00 (m)	0.00	0.00					Surface
4616.70	32.81	4613.31	4583.90	3249.16	MAS = 10.00 (m)	23.00	23.00					WRP
4528.85	495.10	4198.25	4033.76	13.76	OSF1.50	6770.00	6685.43					MinPt-CtCt
3237.73	974.91	2587.29	2262.82	4.99	OSF1.50	12750.00	11620.00	OSF<=5.00				Enter Alert
969.70	975.41	318.92	-5.71	1.49	OSF1.50	15060.00	11620.00					Enter Minor
643.71	975.95	-7.42	-332.24	0.99	OSF1.50	15420.00	11620.00					Enter Major
333.65	979.10	-319.58	-645.45	0.51	OSF1.50	15970.49	11620.00					MinPts
651.44	976.74	-0.22	-325.30	1.00	OSF1.50	16530.00	11620.00					OSF>1.00
968.78	976.20	317.48	-7.42	1.49	OSF1.50	16880.00	11620.00					Exit Major
3246.70	976.27	2595.35	2270.43	4.99	OSF1.50	19200.00	11620.00	OSF>5.00				Exit Minor
5855.85	977.17	5203.90	4878.68	9.00	OSF1.50	21816.83	11620.00					Exit Alert
												TD

Coterra Tatanka Fed Com 651H Rev1 kFc 07Apr25 (DefinitivePlan) - Fail Minor

25.00	20.40	21.71	4.60	11.86	MAS = 6.22 (m)	0.00	0.00	CtCt<=15.00m				Enter Alert
25.00	20.40	21.71	4.60	11.86	MAS = 6.22 (m)	23.00	23.00					WRP
25.00	16.14		4.60	3.13	MAS = 6.22 (m)	790.00	790.00					MinPt-EOU
25.00	7.97	-0.05	1.50		OSF1.50	1650.00	1650.00					Enter Minor
25.00	27.29	6.48	-2.29	1.37	OSF1.50	1800.00	1800.00					MinPt-CtCt
25.03	27.43	6.42	-2.40	1.36	OSF1.50	1810.00	1810.00					MinPt-EOU
25.14	27.58	6.42	-2.44	1.36	OSF1.50	1820.00	1820.00					MinPts
28.45	28.72	8.97	-0.28	1.49	OSF1.50	1900.00	1899.98					Exit Minor
112.37	34.65	88.94	77.72	4.96	OSF1.50	2330.00	2326.98	OSF>5.00				Exit Alert
796.30	70.40	749.04	725.91	17.19	OSF1.50	4720.00	4673.09					MinPt-SF
1320.00	164.85	1209.77	1155.15	12.07	OSF1.50	11150.00	11054.27					MinPt-EOU
1198.30	360.54	957.61	837.76	4.99	OSF1.50	21390.00	11620.00	OSF<=5.00				Enter Alert
1150.25	372.66	901.48	777.59	4.64	OSF1.50	21816.83	11620.00					MinPts

30-025-26747 TALCO UNIT 1 INC Only to 19600ft - P (DefinitiveSurvey) - Warning Alert

7230.28	32.81	7226.89	7197.47	5110.76	MAS = 10.00 (m)	0.00	0.00					Surface
7230.01	32.81	7226.62	7197.20	5107.62	MAS = 10.00 (m)	23.00	23.00					WRP
7229.63	93.04	7167.01	7136.59	118.77	OSF1.50	1800.00	1800.00					MinPt-CtCt
2509.71	756.25	2005.05	1753.46	4.98	OSF1.50	16720.00	11620.00	OSF<=5.00				Enter Alert
1652.37	768.23	1139.72	884.14	3.23	OSF1.50	18609.00	11620.00					MinPt-CtCt
1652.37	768.24	1139.71	884.13	3.23	OSF1.50	18610.00	11620.00					MinPt-EOU
1652.41	768.29	1139.72	884.12	3.23	OSF1.50	18620.00	11620.00					MinPt-ADP
1652.51	768.33	1139.78	884.17	3.23	OSF1.50	18630.00	11620.00					MinPt-SF
2541.48	764.88	2031.06	1776.59	4.99	OSF1.50	20540.00	11620.00	OSF>5.00				Exit Alert
3608.40	762.00	3099.90	2846.41	7.11	OSF1.50	21816.83	11620.00					TD

30-025-44569 TATANKA FEDERAL 1H IFR1 to 17163ft - A (DefinitiveSurvey) - Pass

10291.44	32.81	10288.04	10258.63	7274.71	MAS = 10.00 (m)	0.00	0.00					Surface

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
1815.57	260.57	1641.35	1555.00	10.50	OSF1.50	20270.00	11620.00					MinPt-CtCt
1815.73	261.02	1641.21	1554.71	10.49	OSF1.50	20300.00	11620.00					MinPt-EOU
1815.86	261.17	1641.25	1554.69	10.48	OSF1.50	20310.00	11620.00					MinPt-ADP
1816.36	266.17	1638.41	1550.19	10.29	OSF1.50	20620.00	11620.00					MinPts
1455.15	288.20	1262.52	1166.95	7.61	OSF1.50	21715.65	11620.00					MinPt-CtCt
1455.22	288.46	1262.41	1166.76	7.60	OSF1.50	21730.00	11620.00					MinPt-EOU
1455.35	288.64	1262.43	1166.72	7.59	OSF1.50	21740.00	11620.00					MinPt-ADP
1457.59	289.51	1264.08	1168.08	7.58	OSF1.50	21800.00	11620.00					MinPt-SF
1458.66	289.70	1265.02	1168.96	7.58	OSF1.50	21816.83	11620.00					TD



Coterra Tatanka Fed Com 652H Rev1 kFc 07Apr25 Proposal Geodetic Report

Def Plan

Report Date: April 07, 2025 - 04:03 PM (UTC 0)
Client: COTERRA
Field: nne lea county (nad 83)
Structure / Slot: Coterra - Tatanka Fed Com Pad Lot (D) / Tatanka Fed Com 652H
Well: Tatanka Fed Com 652H
Borehole: Tatanka Fed Com 652H
UBHI / API#: Unknown / Unknown
Survey Name: Coterra Tatanka Fed Com 652H Rev1 kFc 07Apr25
Survey Date: April 07, 2025
Tort / AHD / DDI / ERD Ratio: 111.999° / 11394.203 ft / 6.379 / 0.981
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: 32°44'5.89608"N, 103°20'33.83340"W
Location Grid N/E Y/X: N 394037.280 ftUS, E 848153.990 ftUS
CRS Grid Convergence Angle: 0.526°
Grid Scale Factor: 1.00001691(Applied)
Version / Patch: 2024.5.0.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.430 °(GRID North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3144.400 ft above MSL
Seabed / Ground Elevation: 3121.400 ft above MSL
Magnetic Declination: 6.060°
Total Gravity Field Strength: 998.4729mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47032.797 nT
Magnetic Dip Angle: 59.527°
Declination Date: April 07, 2025
Magnetic Declination Model: HDGM 2025
North Reference: Grid North
Grid Convergence Used: 0.526°
Total Corr Mag North->Grid North: 5.534°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSs (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [80'FNL, 1252'FWL]	0.00	0.00	0.00	0.00	-3,144.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
Nudge, Build 2°/100ft	1,800.00	0.00	91.97	1,800.00	-1,344.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
Hold	2,349.98	11.00	91.97	2,346.60	-797.80	2.33	-1.81	52.60	394,035.47	848,206.59	32,07940928	-103,34256175	2.00	2.00	0.00
Drop 2°/100ft	7,193.27	11.00	91.97	7,100.92	3,956.52	43.25	-33.54	976.16	394,003.74	849,130.16	32,07929870	-103,33958119	0.00	0.00	0.00
Hold	7,743.24	0.00	91.97	7,647.52	4,503.12	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,07929240	-103,33941144	2.00	-2.00	0.00
KOP, Build 10°/100ft	11,123.24	0.00	91.97	11,027.52	7,883.12	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,07929240	-103,33941144	0.00	0.00	0.00
Build 5°/100ft	11,873.24	75.00	179.43	11,580.95	8,436.55	470.25	-460.00	1,032.98	393,577.28	849,186.98	32,07812512	-103,33941044	10.00	10.00	0.00
Landing Point	12,173.24	90.00	179.43	11,620.00	8,475.60	766.83	-756.57	1,035.94	393,280.70	849,189.94	32,07730989	-103,33940971	5.00	5.00	0.00
Tatanka Fed Com 652H - BHL [100'FSL, 2310'FWL]	21,816.83	90.00	179.43	11,620.00	8,475.60	10,410.43	-10,399.67	1,132.42	383,637.45	849,286.43	32,05080238	-103,33938495	0.00	0.00	0.00

Survey Type: Def Plan

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
-------------	------	-----------------	---------------	------------------	-------------------	-------------------------	--------------------------------------	------------------	---------------	-------------------

1 0.000 11,100.000 1/100.000 .5 – 12.25 – 8.753,375 – 9.625 – 7 A001Mb_MWD Tatanka Fed Com 652H / Coterra Tatanka Fed Co

1 11,100.000 21,816.832 1/100.000 8.75 – 6 7 – 5 A008Mb_MWD+IFR1+MS Tatanka Fed Com 652H / Coterra Tatanka Fed Co

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
830.300	17.500	13.375	
4,464.300	12.250	9.625	
11,281.300	8.750	7.000	
21,816.832	6.000	5.000	



Coterra Tatanka Fed Com 652H Rev1 kFc 07Apr25 Proposal Geodetic Report

Def Plan

Report Date:	April 07, 2025 - 04:04 PM (UTC 0)	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	COTERRA	Vertical Section Azimuth:	179.430 °(GRID North)
Field:	nm leu county (nad 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Coterra - Tatanka Fed Com Pad Lot (D) / Tatanka Fed Com 652H	TVD Reference Datum:	RKB
Well:	Tatanka Fed Com 652H	TVD Reference Elevation:	3144.400 ft above MSL
Borehole:	Tatanka Fed Com 652H	Seabed / Ground Elevation:	3121.400 ft above MSL
UBHI / API#:	Unknown / Unknown	Magnetic Declination:	6.060°
Survey Name:	Coterra Tatanka Fed Com 652H Rev1 kFc 07Apr25	Total Gravity Field Strength:	998.4729mgn (9.80665 Based)
Survey Date:	April 07, 2025	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	111.999 ° / 11394.203 ft / 6.379 / 0.981	Total Magnetic Field Strength:	47032.797 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.527°
Location Lat / Long:	32°4'45.89608"N, 103°20'33.83340"W	Declination Date:	April 07, 2025
Location Grid N/E Y/X:	N 394037.280 ftUS , E 848153.990 ftUS	Magnetic Declination Model:	HDGM 2025
CRS Grid Convergence Angle:	0.526°	North Reference:	Grid North
Grid Scale Factor:	1.00001691(Applied)	Grid Convergence Used:	0.526°
Version / Patch:	2024.5.0.1	Total Corr Mag North->Grid North:	5.534°
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSs (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [80'FNL, 1252'FWL]	0.00	0.00	0.00	0.00	-3,144.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	100.00	0.00	91.97	100.00	-3,044.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	200.00	0.00	91.97	200.00	-2,944.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	300.00	0.00	91.97	300.00	-2,844.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	400.00	0.00	91.97	400.00	-2,744.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	500.00	0.00	91.97	500.00	-2,644.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	600.00	0.00	91.97	600.00	-2,544.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	700.00	0.00	91.97	700.00	-2,444.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	800.00	0.00	91.97	800.00	-2,344.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
Rustler□	820.00	0.00	91.97	820.00	-2,324.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	900.00	0.00	91.97	900.00	-2,244.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	1,000.00	0.00	91.97	1,000.00	-2,144.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	1,100.00	0.00	91.97	1,100.00	-2,044.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	1,200.00	0.00	91.97	1,200.00	-1,944.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
Salado□	1,203.00	0.00	91.97	1,203.00	-1,941.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	1,300.00	0.00	91.97	1,300.00	-1,844.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	1,400.00	0.00	91.97	1,400.00	-1,744.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	1,500.00	0.00	91.97	1,500.00	-1,644.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	1,600.00	0.00	91.97	1,600.00	-1,544.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	1,700.00	0.00	91.97	1,700.00	-1,444.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
Nudge, Build 2°/100ft	1,800.00	0.00	91.97	1,800.00	-1,344.40	0.00	0.00	0.00	394,037.28	848,153.99	32,07941558	-103,34273150	0.00	0.00	0.00
	1,900.00	2.00	91.97	1,899.98	-1,244.42	0.08	-0.06	1.74	394,037.22	848,153.73	32,07941537	-103,34272587	2.00	2.00	0.00
	2,000.00	4.00	91.97	1,999.84	-1,144.56	0.31	-0.24	6.97	394,037.04	848,160.96	32,07941474	-103,34272089	2.00	2.00	0.00
	2,100.00	6.00	91.97	2,099.45	-1,044.95	0.69	-0.54	15.68	394,036.74	848,169.67	32,07941370	-103,34268088	2.00	2.00	0.00
	2,200.00	8.00	91.97	2,198.70	-945.70	1.23	-0.96	27.86	394,036.32	848,181.85	32,07941224	-103,34264158	2.00	2.00	0.00
	2,300.00	10.00	91.97	2,297.47	-846.93	1.93	-1.49	43.50	394,035.79	848,197.49	32,07941037	-103,34259112	2.00	2.00	0.00
Hold	2,349.98	11.00	91.97	2,346.60	-797.80	2.33	-1.81	52.60	394,035.47	848,206.59	32,07940928	-103,34256175	2.00	2.00	0.00
	2,400.00	11.00	91.97	2,395.71	-748.69	2.75	-2.14	62.14	394,035.14	848,216.13	32,07940814	-103,34253096	0.00	0.00	0.00
	2,500.00	11.00	91.97	2,493.87	-650.53	3.60	-2.79	81.21	394,034.49	848,235.20	32,07940586	-103,34246942	0.00	0.00	0.00
	2,600.00	11.00	91.97	2,592.03	-552.37	4.44	-3.45	100.28	394,033.83	848,254.27	32,07940358	-103,34240788	0.00	0.00	0.00
	2,700.00	11.00	91.97	2,690.20	-454.20	5.29	-4.10	119.34	394,033.18	848,273.34	32,07940129	-103,34234634	0.00	0.00	0.00
	2,800.00	11.00	91.97	2,788.36	-356.04	6.13	-4.76	138.41	394,032.52	848,292.40</					

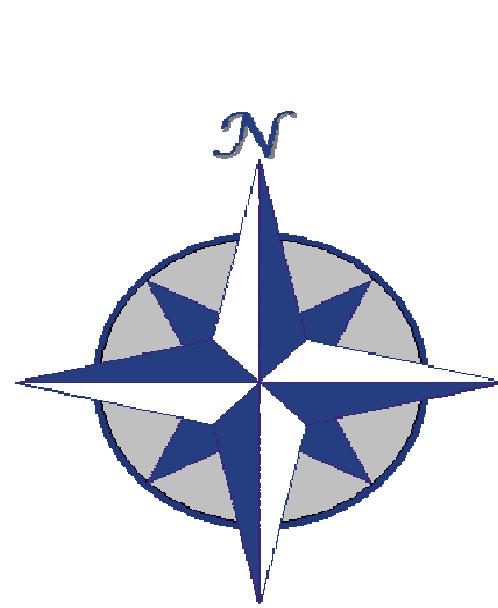
Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSs (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
	9,500.00	0.00	91.97	9,404.28	6,259.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	9,600.00	0.00	91.97	9,504.28	6,359.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	9,700.00	0.00	91.97	9,604.28	6,459.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	9,800.00	0.00	91.97	9,704.28	6,559.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	9,900.00	0.00	91.97	9,804.28	6,659.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	10,000.00	0.00	91.97	9,904.28	6,759.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	10,100.00	0.00	91.97	10,004.28	6,859.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	10,200.00	0.00	91.97	10,104.28	6,959.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	10,300.00	0.00	91.97	10,204.28	7,059.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
1st BS SS □	10,381.72	0.00	91.97	10,286.00	7,141.60	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	10,400.00	0.00	91.97	10,304.28	7,159.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	10,500.00	0.00	91.97	10,404.28	7,259.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	10,600.00	0.00	91.97	10,504.28	7,359.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	10,700.00	0.00	91.97	10,604.28	7,459.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	10,800.00	0.00	91.97	10,704.28	7,559.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	10,900.00	0.00	91.97	10,804.28	7,659.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
2nd BS SS □	10,908.72	0.00	91.97	10,813.00	7,668.60	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	11,000.00	0.00	91.97	10,904.28	7,759.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
KOP, Build 10°/100ft	11,100.00	0.00	91.97	11,004.28	7,859.88	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	11,123.24	0.00	91.97	11,027.52	7,883.12	45.58	-35.35	1,028.75	394,001.93	849,182.76	32,079,292,40	-103,339,411,44	0.00	0.00	0.00
	11,200.00	7.68	179.43	11,104.05	7,959.65	50.72	-40.49	1,028.81	393,996.79	849,182.81	32,079,282,9	-103,339,411,43	10.00	10.00	0.00
	11,300.00	17.68	179.43	11,201.49	8,057.09	72.63	-62.40	1,029.02	393,974.88	849,183.03	32,079,218,05	-103,339,411,38	10.00	10.00	0.00
	11,400.00	27.68	179.43	11,293.64	8,149.24	111.14	-100.90	1,029.41	393,936.38	849,183.41	32,079,112,22	-103,339,411,29	10.00	10.00	0.00
	11,500.00	37.68	179.43	11,377.71	8,233.31	165.06	-154.82	1,029.94	393,882.46	849,183.95	32,078,964,00	-103,339,411,16	10.00	10.00	0.00
3rd BS Carb □	11,600.00	47.68	179.43	11,451.14	8,306.74	232.76	-222.51	1,030.62	393,814.76	849,184.62	32,078,777,92	-103,339,411,00	10.00	10.00	0.00
	11,676.99	55.37	179.43	11,499.00	8,354.60	292.99	-282.74	1,031.22	393,754.54	849,185.22	32,078,612,37	-103,339,408,6	10.00	10.00	0.00
	11,700.00	57.68	179.43	11,511.69	8,367.29	312.18	-301.93	1,031.41	393,735.34	849,185.41	32,078,559,61	-103,339,408,01	10.00	10.00	0.00
	11,800.00	67.68	179.43	11,557.53	8,413.13	400.91	-390.66	1,032.29	393,646.62	849,186.29	32,078,315,72	-103,339,406,00	10.00	10.00	0.00
Build 5°/100ft	11,873.24	75.00	179.43	11,580.95	8,436.55	470.25	-460.00	1,032.98	393,557.28	849,186.98	32,078,125,12	-103,339,404,04	10.00	10.00	0.00
	11,900.00	76.34	179.43	11,587.58	8,443.18	496.18	-485.92	1,033.24	393,551.35	849,187.24	32,078,053,86	-103,339,403,08	5.00	5.00	0.00
	12,000.00	81.34	179.43	11,606.93	8,462.53	594.25	-583.99	1,034.21	393,453.28	849,188.22	32,077,884,07	-103,339,401,04	5.00	5.00	0.00
Landing Point	12,100.00	86.34	179.43	11,617.66	8,473.26	693.64	-683.38	1,035.21	393,353.89	849,189.21	32,077,511,07	-103,339,409,89	5.00	5.00	0.00
	12,173.24	90.00	179.43	11,620.00	8,475.60	766.83	-756.57	1,035.94	393,280.70	849,189.94	32,077,309,89	-103,339,409,07	5.00	5.00	0.00
	12,200.00	90.00	179.43	11,620.00	8,475.60	793.59	-783.32	1,036.21	393,253.94	849,190.21	32,077,236,34	-103,339,409,06	0.00	0.00	0.00
	12,300.00	90.00	179.43	11,620.00	8,475.60	893.59	-883.32	1,037.21	393,153.95	849,191.21	32,076,961,47	-103,339,409,03	0.00	0.00	0.00
	12,400.00	90.00	179.43	11,620.00	8,475.60	993.59	-983.31	1,038.21	393,053.95	849,192.21	32,076,686,60	-103,339,409,03	0.00	0.00	0.00
	12,500.00	90.00	179.43</												

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
Survey Error Model: Survey Program:	ISCWSA0 3 - D 95 % Confidence 2.7955 sigma														
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)		Survey Tool Code		Vendor / Tool		Borehole / Survey		
1	0.000	11,100.000	1/100.000	11.25 – 12.25 – 8.75 3.375 – 9.625 – 7					A001Mb_MWD				Tatanka Fed Com 652H / Coterra Tatanka Fed Co		
1	11,100.000	21,816.832	1/100.000	8.75 – 6	7 – 5				A008Mb_MWD+IFR1+MS				Tatanka Fed Com 652H / Coterra Tatanka Fed Co		
EOU Geometry:															
End MD (ft)		Hole Size (in)		Casing Size (in)					Name						
830.300		17.500		13.375											
4,464.300		12.250		9.625											
11,281.300		8.750		7.000											
21,816.832		6.000		5.000											

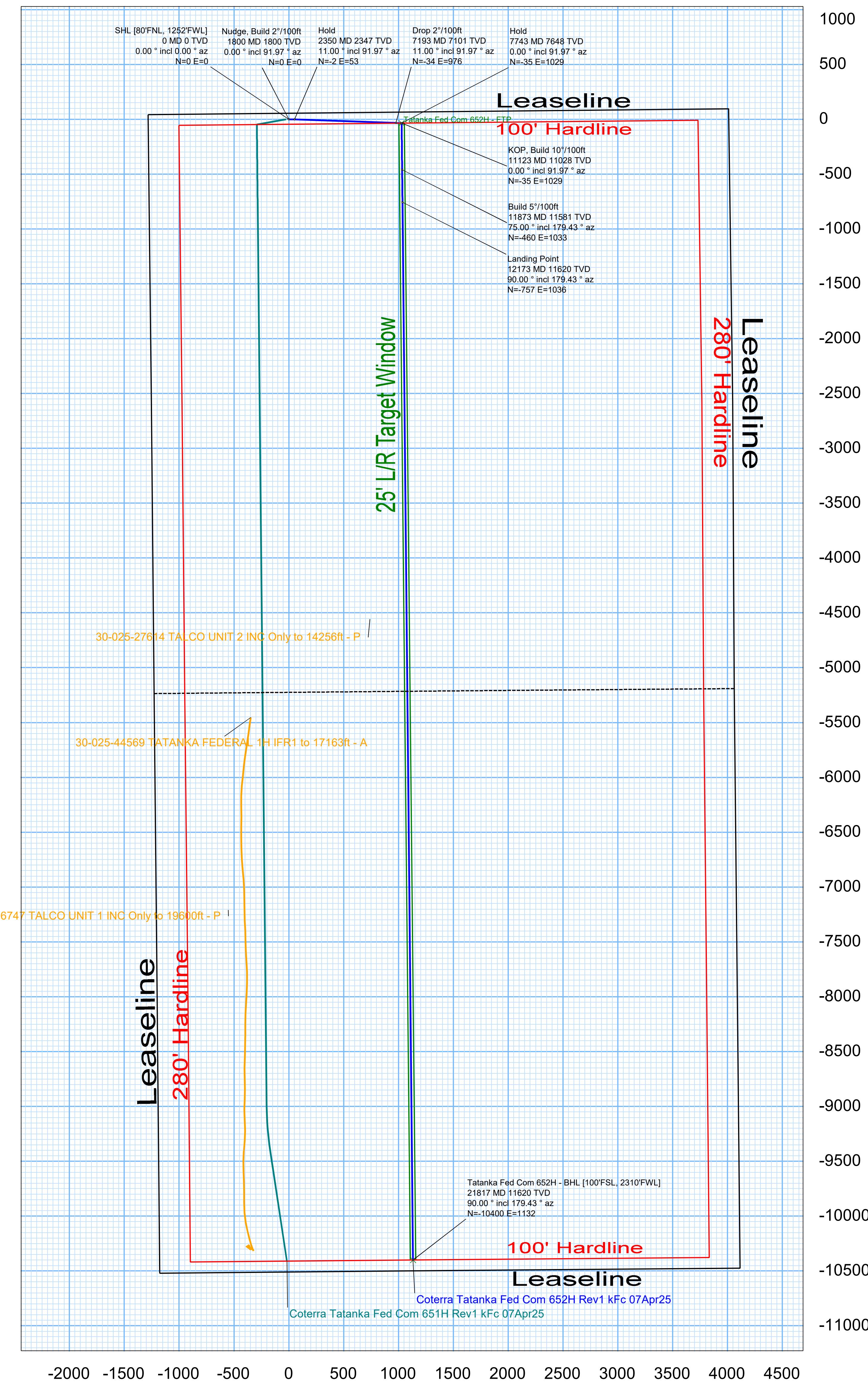
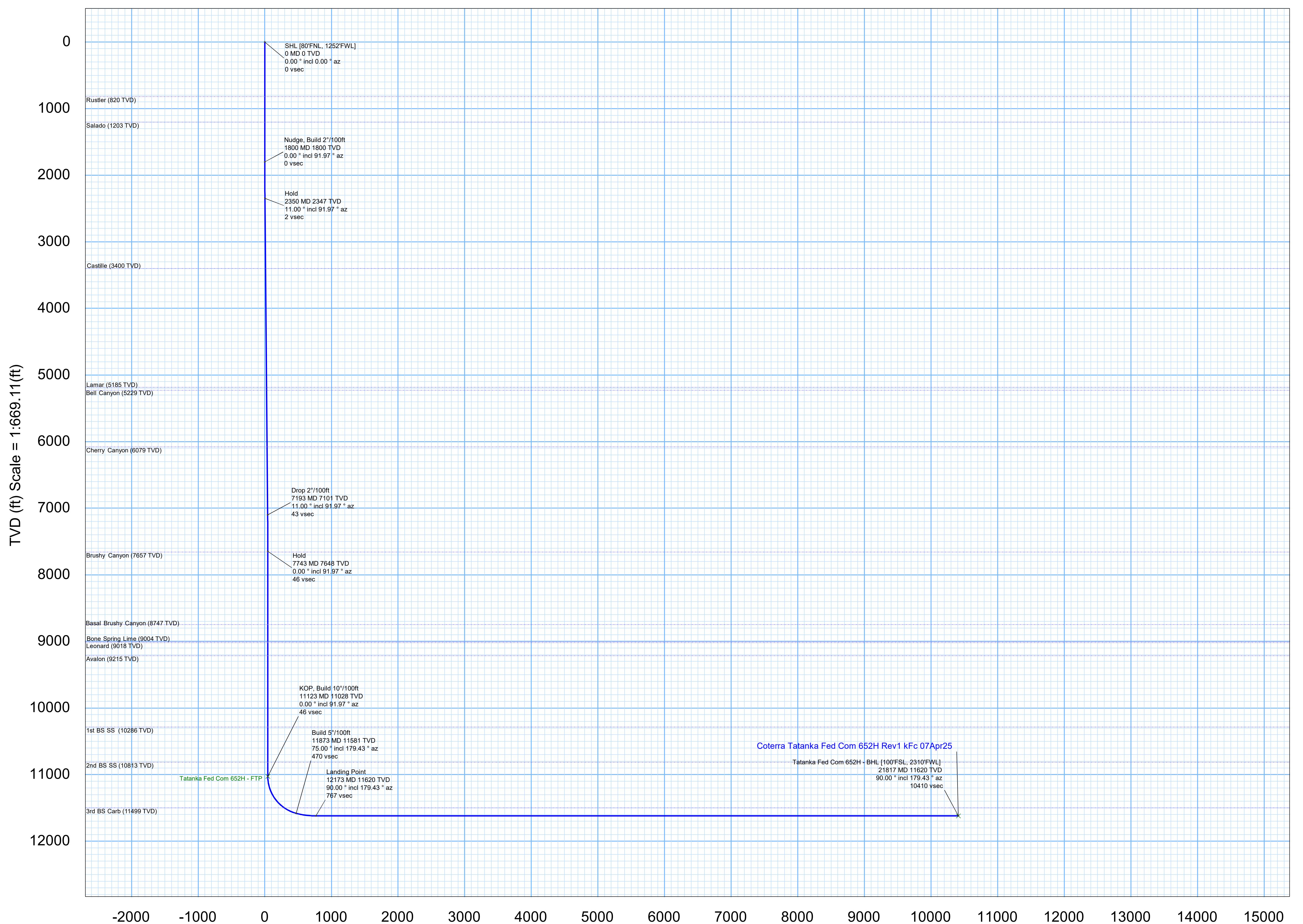
Borehole: Tsetske Fed Com 652H **Well:** Tsetske Fed Com 652H **Field:** Tsetske Fed Com 652H

Gravity & Magnetic Parameters			Surface Location			Miscellaneous		
Model:	HDGM 2025	Dip:	59.527°	Date:	07-Apr-2025	Northing:	394037.28ftUS	GridConv:
MagDec:	6.06°	FS:	47032.797nT	Gravity FS:	998.473mgn (9.80665 Based)	Eastng:	848153.99ftUS	ScaleFact:

Critical Points									
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS	
SHL [80'FNL, 1252'FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Rustler	820.00	0.00	91.97	820.00	0.00	0.00	0.00	0.00	
Salado	1203.00	0.00	91.97	1203.00	0.00	0.00	0.00	0.00	
Nudge, Build 2°/100ft	1800.00	0.00	91.97	1800.00	0.00	0.00	0.00	0.00	
Hold	2349.98	11.00	91.97	2346.60	2.33	-1.81	5260	2.00	
Castille	3423.09	11.00	91.97	3400.00	11.40	-8.84	257.23	0.00	
Lamar	5241.49	11.00	91.97	5185.00	26.76	-20.75	603.98	0.00	
Bell Canyon	5286.32	11.00	91.97	5229.00	27.14	-21.05	612.52	0.00	
Cherry Canyon	6152.22	11.00	91.97	6079.00	34.46	-26.72	777.64	0.00	
Drop 2°/100ft	7193.27	11.00	91.97	7100.92	43.25	-33.54	976.16	0.00	
Hold	7743.24	0.00	91.97	7647.52	45.58	-35.35	1028.75	2.00	
Brushy Canyon	7752.72	0.00	91.97	7657.00	45.58	-35.35	1028.75	0.00	
Basal Brushy Canyon	8842.72	0.00	91.97	8747.00	45.58	-35.35	1028.75	0.00	
Bone Spring Lime	9099.72	0.00	91.97	9004.00	45.58	-35.35	1028.75	0.00	
Leonard	9113.72	0.00	91.97	9018.00	45.58	-35.35	1028.75	0.00	
Avalon	9310.72	0.00	91.97	9215.00	45.58	-35.35	1028.75	0.00	
1st BS SS	10381.72	0.00	91.97	10286.00	45.58	-35.35	1028.75	0.00	
2nd BS SS	10908.72	0.00	91.97	10813.00	45.58	-35.35	1028.75	0.00	
KOP, Build 10°/100ft	11123.24	0.00	91.97	11027.52	45.58	-35.35	1028.75	0.00	
3rd BS Carb	11676.99	55.37	179.43	11499.00	292.99	-282.74	1031.2	10.00	
Build 5°/100ft	11873.24	75.00	179.43	11580.95	470.25	-460.00	1032.8	10.00	
Landing Point	12173.24	90.00	179.43	11620.00	766.83	-756.57	1035.94	5.00	
Tatanka Fed Com 652H - BHL [100'FSL, 2310'FWL]	21816.83	90.00	179.43	11620.00	10410.43	-103.99.67	1132.2	0.00	



CONTROLLED	
Plan ref Drawing ref Copy number Date	Coterra Tatanka Fed Com 652H Rev1 kFc 07Apr25
	of 3
	07-Apr-2025



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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 453378

CONDITIONS

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 453378
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	The C-103 NOI was not approved or rejected; however, the work requested in the C-103 NOI was performed and completed without NMOCD approval. This action will result in review for potential compliance actions.	1/23/2026