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

Sundry Print Report

12/27/2024

Well Name: BIG EDDY UNIT DI 30 WEST 15-17

Well Location: T20S / R31E / SEC 15 / SESE / 32.568089 / -103.849036

County or Parish/State: EDDY / NM

Well Number: 5H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC063667

Unit or CA Name: BIG EDDY

Unit or CA Number: NMNM68294X

US Well Number:

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2820493

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/04/2024

Time Sundry Submitted: 05:56

Date proposed operation will begin: 11/11/2024

Procedure Description: BIG EDDY UNIT DI 30 West 15-17 5H APD ID# 10400097399 XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, Proposed Total Depth, Casing Design & Cement Program. FROM: TO: SHL: 743' FSL & 180' FEL OF SECTION 15-T20S-R31E 673' FSL & 60' FEL OF SECTION 15-T20S-R31E KOP: 743' FSL & 180' FEL OF SECTION 15-T20S-R31E 1305’ FSL & 616’ FWL OF SECTION 14-T20S-R31E The proposed total depth is changing from 24861.66’ MD; 9282.2’ TVD to 24861.66’ MD; 9415’ TVD. See attached drilling program for the updated casing design & cement program. Attachments: C-102, Drilling Program, Directional Drilling Plan, Non-API Spec document for Production Casing, Well bore diagram, Diverter Diagram, Flex Hose Variance, Spudder Rig Request.

NOI Attachments

Procedure Description

Sundry_Attachments___BEU_DI_30_W_5H___Modified_20241108024943__1__20241118104211.pdf

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Unit or CA Name: BIG EDDY

Unit or CA Number: NMNM68294X

US Well Number:

Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Big_Eddy_Unit_DI_30_West_15_17_4H_5H_6H_COA_20241207102457.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: SRINIVAS LAGHUVARAPU

Signed on: NOV 18, 2024 10:43 AM

Name: XTO PERMIAN OPERATING LLC

Title: REGULATORY ANALYST

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING **State:** TX

Phone: (720) 539-1673

Email address: SRINIVAS.N.LAGHUVARAPU@EXXONMOBIL.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: 12/27/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

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

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 perfonned 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 detennined 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 OFICE 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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

Additional Remarks

See attached drilling program for the updated casing design & cement program.

Attachments: C-102, Drilling Program, Directional Drilling Plan, Non-API Spec document for Production Casing, Well bore diagram, Diverter Diagram, Flex Hose Variance, Spudder Rig Request.

Location of Well

0. SHL: SESE / 743 FSL / 180 FEL / TWSP: 20S / RANGE: 31E / SECTION: 15 / LAT: 32.568089 / LONG: -103.849036 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 1308 FSL / 0 FWL / TWSP: 20S / RANGE: 31E / SECTION: 17 / LAT: 32.569726 / LONG: -103.882716 (TVD: 9320 feet, MD: 20500 feet)

PPP: SWSW / 1316 FSL / 1320 FWL / TWSP: 20S / RANGE: 31E / SECTION: 15 / LAT: 32.569677 / LONG: -103.861269 (TVD: 9379 feet, MD: 13900 feet)

PPP: SESE / 1310 FSL / 100 FEL / TWSP: 20S / RANGE: 31E / SECTION: 15 / LAT: 32.569647 / LONG: -103.848779 (TVD: 9414 feet, MD: 9900 feet)

BHL: SWSW / 1310 FSL / 50 FWL / TWSP: 20S / RANGE: 31E / SECTION: 17 / LAT: 32.569763 / LONG: -103.899814 (TVD: 9282 feet, MD: 24862 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMLC063667**
LOCATION:	Sec. 15, T.20 S, R 31 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Big Eddy Unit DI 30 West 15-17 5H
SURFACE HOLE FOOTAGE:	673'/S & 60'/E
BOTTOM HOLE FOOTAGE:	1310'/S & 50'/W

WELL NAME & NO.:	Big Eddy Unit DI 30 West 15-17 6H
SURFACE HOLE FOOTAGE:	673'/S & 180'/E
BOTTOM HOLE FOOTAGE:	440'/S & 50'/W

WELL NAME & NO.:	Big Eddy Unit DI 30 West 15-17 4H
SURFACE HOLE FOOTAGE:	1543'/S & 90'/E
BOTTOM HOLE FOOTAGE:	2200'/S & 50'/W

*Changes approved through engineering via **Sundry 2820493, 2822480,2822475, _** on 12-7-2024. Any previous COAs not addressed within the updated COAs still apply.*

COA

H_2S	○ No		○ Yes	
Potash / WIPP	○ None	○ Secretary	◉ R-111-Q	☑ Open Annulus
	4-String Design: Open 1st Int x Production Casing (ICP 2 above Relief Zone)			☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☑ Capitan Reef	☐ Water Disposal	☐ COM	☑ Unit
Waste Prev.	○ Self-Certification	○ Waste Min. Plan	◉ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☑ Four-String	☑ Offline Cementing	☑ Fluid-Filled	

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

1. The **20** inch surface casing shall be set at approximately **850** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

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

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

2. The minimum required fill of cement behind the **13-3/8** inch 1st Intermediate casing is:
    - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

- **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
  (Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the Capitan interval)
    - Switch to freshwater mud to protect the Capitan Reef and use freshwater mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
    - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already

planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

3. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
   - Cement to surface**. Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

4. The minimum required fill of cement behind the **6** inch production casing is:
   - Cement should tie-back **500 feet** into the previous casing but not higher than **USGS Marker Bed No. 126**. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

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

2. Operator has proposed a multi-bowl wellhead assembly. 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 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

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)

Contact Eddy County Petroleum Engineering Inspection Staff:
Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

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
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. 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.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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-Q 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 3172**.
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:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. 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.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. 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.
    i. 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).
    ii. 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.)

iii. 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 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).

iv. 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.

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

vi. 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.

vii. 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.

viii. 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 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.

Approved by Zota Stevens on 12/7/2024
575-234-5998 / zstevens@blm.gov

C-102 Sumbit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION	Revised July, 09 2024 Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-	97650	WC WILLIAMS SINK; BONE SPRING

Property Code	Property Name	Well Number
	BIG EDDY UNIT DI 30 WEST 15-17	5H

OGRID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,450'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	15	20S	31E		673 FSL	60 FEL	32.567897	-103.848647	eddy

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	17	20S	31E		1,310 FSL	50 FWL	32.569763	-103.899814	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
960.00	DEFINING		N	U

Order Numbers.

Well Setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	14	20S	31E		1,305 FSL	616 FWL	32.569641	-103.846454	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	15	20S	31E		1,310 FSL	100 FEL	32.569647	-103.848779	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	17	20S	31E		1,310 FSL	100 FWL	32.569762	-103.899652	EDDY

Unitized Area or Area of Interest	Spacing Unit Type : ☒ Horizontal ☐ Vertical	Ground Elevation
NMNM105467880		3,450'

OPERATOR CERTIFICATIONS

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 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 at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory pooling order of heretofore entered by the division.

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 information) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Srinivas Naveen — 10/29/2024

Signature — Date

Srinivas Naveen Laghuvarapu

Printed Name

srinivas.n.laghuvarapu@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786 — Certificate Number

10/25/2024 — Date of Survey

DB

618.013004.10-08

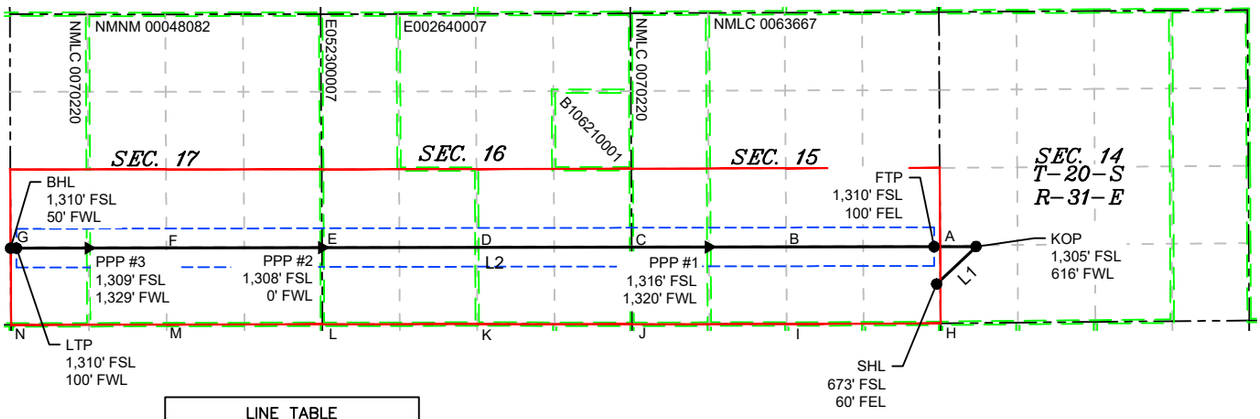
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

P:\618.013 XTO Energy - NM\004 Big Eddy Unit - Eddy Lea\10 - BEU DI 30 - EDDY\Wells\-08 WEST 15-17 5H\DWG\5H C-102.dwg

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other then the First Take Point and Last Take Point) that is closest to any outer boundary of the tract.

Surveyor shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land in not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	046°31'16"	926.92'
L2	269°54'21"	16,438.49'

LEGEND

- SECTION LINE
- PROPOSED WELL BORE
- NEW MEXICO MINERAL LEASE
- 330' BUFFER
- ALLOCATION AREA

COORDINATE TABLE					
SHL (NAD 83 NME)			SHL (NAD 27 NME)		
Y =	570,671.5	N	Y =	570,609.7	N
X =	690,651.9	E	X =	649,472.6	E
LAT. =	32.567897	°N	LAT. =	32.567777	°N
LONG. =	103.848647	°W	LONG. =	103.848144	°W
KOP (NAD 83 NME)			KOP (NAD 27 NME)		
Y =	571,309.3	N	Y =	571,247.5	N
X =	691,324.5	E	X =	650,145.2	E
LAT. =	32.569641	°N	LAT. =	32.569521	°N
LONG. =	103.846454	°W	LONG. =	103.845952	°W
FTP (NAD 83 NME)			FTP (NAD 27 NME)		
Y =	571,308.1	N	Y =	571,246.3	N
X =	690,608.3	E	X =	649,429.0	E
LAT. =	32.569647	°N	LAT. =	32.569527	°N
LONG. =	103.848779	°W	LONG. =	103.848277	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	571,301.8	N	Y =	571,240.0	N
X =	686,760.4	E	X =	645,581.1	E
LAT. =	32.569677	°N	LAT. =	32.569557	°N
LONG. =	103.861269	°W	LONG. =	103.860767	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 83 NME)		
Y =	571,291.0	N	Y =	571,229.1	N
X =	680,153.4	E	X =	638,974.1	E
LAT. =	32.569726	°N	LAT. =	32.569606	°N
LONG. =	103.882716	°W	LONG. =	103.882213	°W
PPP #3 (NAD 83 NME)			PPP #3 (NAD 83 NME)		
Y =	571,284.4	N	Y =	571,222.5	N
X =	676,165.7	E	X =	634,986.4	E
LAT. =	32.569754	°N	LAT. =	32.569634	°N
LONG. =	103.895661	°W	LONG. =	103.895157	°W
LTP (NAD 83 NME)			LTP (NAD 27 NME)		
Y =	571,282.4	N	Y =	571,220.5	N
X =	674,936.1	E	X =	633,756.7	E
LAT. =	32.569762	°N	LAT. =	32.569642	°N
LONG. =	103.899652	°W	LONG. =	103.899149	°W
BHL (NAD 83 NME)			BHL (NAD 27 NME)		
Y =	571,282.3	N	Y =	571,220.4	N
X =	674,886.1	E	X =	633,706.7	E
LAT. =	32.569763	°N	LAT. =	32.569642	°N
LONG. =	103.899814	°W	LONG. =	103.899311	°W

CORNER COORDINATES (NAD 83 NME)					
A - Y =	569,998.6	N	A - X =	690,715.2	E
B - Y =	569,987.2	N	B - X =	688,089.6	E
C - Y =	569,984.3	N	C - X =	685,448.0	E
D - Y =	569,986.3	N	D - X =	682,805.4	E
E - Y =	569,982.7	N	E - X =	680,160.3	E
F - Y =	569,977.4	N	F - X =	677,501.4	E
G - Y =	569,972.2	N	G - X =	674,842.5	E
H - Y =	571,324.9	N	H - X =	690,708.2	E
I - Y =	571,315.7	N	I - X =	688,080.4	E
J - Y =	571,310.7	N	J - X =	685,440.3	E
K - Y =	571,309.3	N	K - X =	682,798.2	E
L - Y =	571,305.2	N	L - X =	680,153.4	E
M - Y =	571,302.0	N	M - X =	677,495.2	E
N - Y =	571,298.8	N	N - X =	674,836.0	E
CORNER COORDINATES (NAD 27 NME)					
A - Y =	569,936.8	N	A - X =	649,535.8	E
B - Y =	569,925.4	N	B - X =	646,910.2	E
C - Y =	569,922.4	N	C - X =	644,268.6	E
D - Y =	569,924.4	N	D - X =	641,626.1	E
E - Y =	569,920.8	N	E - X =	638,980.9	E
F - Y =	569,915.6	N	F - X =	636,322.0	E
G - Y =	569,910.3	N	G - X =	633,663.1	E
H - Y =	571,263.1	N	H - X =	649,528.9	E
I - Y =	571,253.9	N	I - X =	646,901.1	E
J - Y =	571,248.8	N	J - X =	644,261.0	E
K - Y =	571,247.5	N	K - X =	641,619.0	E
L - Y =	571,243.3	N	L - X =	638,974.0	E
M - Y =	571,240.1	N	M - X =	636,315.8	E
N - Y =	571,236.9	N	N - X =	633,656.6	E

DB 618.013003.10-08

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.
BEU DI 30 West 15-17 5H
Projected TD: 24861.66' MD / 9415' TVD
SHL: 673' FSL & 60' FEL , Section 15, T20S, R31E
BHL: 1310' FSL & 50' FWL , Section 17, T20S, R31E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	690'	Water
Top of Salt	950'	Water
Base of Salt	1970'	Water
Capitan	2740'	Water
Delaware	3950'	Water/Oil/Gas
Brushy Canyon	5785'	Water
Bone Spring	7371'	Water/Oil/Gas
1st Bone Spring Ss	8577'	Water/Oil/Gas
2nd Bone Spring Ss	9070'	Water/Oil/Gas
Target/Land Curve	9415'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The fresh water sands will be protected by setting surface casing @ 850' (160' below Rustler) and circulating cement back to surface. The salt will be isolated by setting first intermediate casing string at 2120' and circulating cement to surface. The second intermediate casing string will isolate the Capitan Reef ~ 50' inside Delaware formation and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 24861.66 MD/TD and 6 inch production casing will be set at TD and cemented in one single stage with estimated TOC 7371 feet

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
24	0' – 850'	20	94	J-55	BTC	New	3.63	1.42	13.48
17.5	0' – 2120'	13.375	54.5	J-55	BTC	New	3.24	1.92	7.87
12.25	0' – 2320'	9.625	40	HC L-80	BTC	New	2.04	7.35	13.63
12.25	2320' – 4000'	9.625	40	HC L-80	BTC	New	1.17	6.69	2.13
8.5	0' – 24861.66'	6	26	P-110	Tenaris Hydrill Wedge	New	1.17	2.77	2.87

XTO will keep surface casing fluid filled to meet BLM's collapse requirement.

*Non-API Standard Spec Sheet Attached

Wellhead:

Permanent Wellhead
Multibowl System for 4 String desing as per attachement.

4. Cement Program

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

Surface Casing: 20, 94 New BTC, J-55 casing to be set at +/- 850'

Optional Lead: 560 sxs EconoCem-HLTRRC (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 420 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface
Compressives: 12-hr = 250 psi 24 hr = 500 psi

Due to the high probability of not getting cement to surface during conventional top-out jobs in the area, ~10-20 ppb gravel will be added on the backside of the 1" to get cement to surface, if required.

1st Intermediate Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 2120'

Lead: 1000 sxs Class C (mixed at 12.6 ppg, 1.88 ft3/sx, 10.13 gal/sx water)
Tail: 230 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 9.625, 40 New casing to be set at +/- 4000'
ECP/DV Tool to be set at 2861' if needed

Lead: 830 sxs Class C (mixed at 12.8 ppg, 1.88 ft3/sx, 15.59 gal/sx water)
TOC: 0'
Tail: 90 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
TOC: Capitan Reef @ 2740
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a single stage cement job on the second intermediate casing string, with slurries pumped conventionally with the first slurry top of cement at Capitan Reef (2740') and the second slurry performed with planned cement from the Capitan Reef to surface.

Production Casing: 6, 26 New Tenaris Hydrill Wedge, P-110 casing to be set at +/- 24861.66'

Lead: 110 sxs NeoCem (mixed at 12.8 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement 7371 feet
Tail: 2270 sxs VersaCem (mixed at 14.5 ppg, 1.61 ft3/sx, 8.38 gal/sx water) Top of Cement 8729.9 feet
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

XTO requests to pump a single stage cement job on the 6” Production casing string pumped conventionally, with calculated top of cement at Base of Brushy Canyon.

In case the initial cement job do not reach the desired top of cement, a post completion bradenhead squeeze will be performed to tied back the 2nd intermediate x production casing annulus TOC into the 2nd intermediate shoe but below of potash interval

5. Pressure Control Equipment

Operator requests a variance to utilize a temporary blowout preventer equipment "BOP" (Diverter) to drill 1st intermediate section. This temporary diverter consists of a 21 1/4" minimum 2M Hydril. Once the casing is run and cemented, and the wellhead (MBS) is installed and tested, the full BOP system with Hydril and rams will be installed before continue drilling the 2nd intermediate and production sections or enter in a oil and gas interval"

Once the permanent WH is installed on the casing, the blow out preventer equipment (BOP) will consist of 5M Hydril Annular and 5M Double-Ram BOP.

All BOP testing will be done by an independent service company. Operator will test as per 43 CFR 3172

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 850'	24	FW/Native	8.3-8.8	35-40	NC	Fresh water or native water
850' - 2120'	17.5	Sat salt Brine	9.5-10.5	30-32	NC	Fully saturated brine across salado / salt
2120' to 4000'	12.25	FW	8.3-8.8	30-32	NC	FW across Cap Reef
4000' to 24861.66'	8.5	Brine /OBM	9.5-10.5	50-60	NC - 20	OBM or Brine depending well conditions.

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under surface casing with brine solution. Saturated Brine will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

A. A Kelly cock will be in the drill string at all times.
B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
C. H2S monitors will be on location when drilling below the 20 casing.

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 4896 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

Long Lead_Well Planning

BEU DI 30
BEU DI 30 W 15-17 005H
BEU DI 30 W 15-17 005H

OH

Plan: Plan 1

Standard Planning Report

17 July, 2024

XTO Energy
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well BEU DI 30 W 15-17 005H
Company:	Long Lead_Well Planning	**TVD Reference:**	RKB (+32) @ 3482.0usft
Project:	BEU DI 30	**MD Reference:**	RKB (+32) @ 3482.0usft
Site:	BEU DI 30 W 15-17 005H	**North Reference:**	Grid
Well:	BEU DI 30 W 15-17 005H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project BEU DI 30

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site BEU DI 30 W 15-17 005H

Site Position:		**Northing:**	570,609.70 usft	**Latitude:**	32° 34' 3.996 N
From:	Map	**Easting:**	649,472.60 usft	**Longitude:**	103° 50' 53.319 W
Position Uncertainty:	3.0 usft	**Slot Radius:**	13-3/16 "		

Well BEU DI 30 W 15-17 005H

Well Position	**+N/-S**	0.0 usft	**Northing:**	570,609.70 usft	**Latitude:**	32° 34' 3.996 N
	+E/-W	0.0 usft	**Easting:**	649,472.60 usft	**Longitude:**	103° 50' 53.319 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,450.0 usft
Grid Convergence:		0.26 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/17/2024	6.34	60.07	47,346.93397043

Design Plan 1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	269.91

Plan Survey Tool Program **Date** 7/17/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	25,676.1	Plan 1 (OH)	XOM_R2OWSG MWD+IFR1+ OWSG MWD + IFR1 + Multi-St	

XTO Energy

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well BEU DI 30 W 15-17 005H
Company:	Long Lead_Well Planning	**TVD Reference:**	RKB (+32) @ 3482.0usft
Project:	BEU DI 30	**MD Reference:**	RKB (+32) @ 3482.0usft
Site:	BEU DI 30 W 15-17 005H	**North Reference:**	Grid
Well:	BEU DI 30 W 15-17 005H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,883.6	17.67	46.52	2,869.6	93.0	98.1	2.00	2.00	0.00	46.52	
5,046.4	17.67	46.52	4,930.4	544.8	574.5	0.00	0.00	0.00	0.00	
5,929.9	0.00	0.00	5,800.0	637.8	672.6	2.00	-2.00	0.00	180.00	
8,828.7	0.00	0.00	8,698.8	637.8	672.6	0.00	0.00	0.00	0.00	
9,953.7	90.00	269.91	9,415.0	636.6	-43.6	8.00	0.00	0.00	269.91	FTP_005H
25,626.1	90.00	269.91	9,415.0	610.8	-15,715.9	0.00	0.00	0.00	0.00	LTP_005H
25,676.1	90.00	269.91	9,415.0	610.7	-15,765.9	0.00	0.00	0.00	0.00	BHL_005H

XTO Energy

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well BEU DI 30 W 15-17 005H
Company:	Long Lead_Well Planning	**TVD Reference:**	RKB (+32) @ 3482.0usft
Project:	BEU DI 30	**MD Reference:**	RKB (+32) @ 3482.0usft
Site:	BEU DI 30 W 15-17 005H	**North Reference:**	Grid
Well:	BEU DI 30 W 15-17 005H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL_005H									
690.0	0.00	0.00	690.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
950.0	0.00	0.00	950.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
1,970.0	0.00	0.00	1,970.0	0.0	0.0	0.0	0.00	0.00	0.00
Base Salt									
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	2.00	46.52	2,100.0	1.2	1.3	-1.3	2.00	2.00	0.00
2,200.0	4.00	46.52	2,199.8	4.8	5.1	-5.1	2.00	2.00	0.00
2,300.0	6.00	46.52	2,299.5	10.8	11.4	-11.4	2.00	2.00	0.00
2,400.0	8.00	46.52	2,398.7	19.2	20.2	-20.3	2.00	2.00	0.00
2,500.0	10.00	46.52	2,497.5	29.9	31.6	-31.6	2.00	2.00	0.00
2,600.0	12.00	46.52	2,595.6	43.1	45.4	-45.5	2.00	2.00	0.00
2,700.0	14.00	46.52	2,693.1	58.6	61.7	-61.8	2.00	2.00	0.00
2,748.5	14.97	46.52	2,740.0	66.9	70.5	-70.7	2.00	2.00	0.00
Capitan									
2,800.0	16.00	46.52	2,789.6	76.4	80.5	-80.6	2.00	2.00	0.00
2,883.6	17.67	46.52	2,869.6	93.0	98.1	-98.2	2.00	2.00	0.00
2,900.0	17.67	46.52	2,885.3	96.4	101.7	-101.9	0.00	0.00	0.00
3,000.0	17.67	46.52	2,980.6	117.3	123.7	-123.9	0.00	0.00	0.00
3,100.0	17.67	46.52	3,075.8	138.2	145.8	-146.0	0.00	0.00	0.00
3,200.0	17.67	46.52	3,171.1	159.1	167.8	-168.0	0.00	0.00	0.00
3,300.0	17.67	46.52	3,266.4	180.0	189.8	-190.1	0.00	0.00	0.00
3,400.0	17.67	46.52	3,361.7	200.9	211.8	-212.2	0.00	0.00	0.00
3,500.0	17.67	46.52	3,457.0	221.8	233.9	-234.2	0.00	0.00	0.00
3,600.0	17.67	46.52	3,552.3	242.7	255.9	-256.3	0.00	0.00	0.00
3,700.0	17.67	46.52	3,647.5	263.5	277.9	-278.3	0.00	0.00	0.00
3,800.0	17.67	46.52	3,742.8	284.4	300.0	-300.4	0.00	0.00	0.00
3,900.0	17.67	46.52	3,838.1	305.3	322.0	-322.5	0.00	0.00	0.00
4,000.0	17.67	46.52	3,933.4	326.2	344.0	-344.5	0.00	0.00	0.00
4,017.4	17.67	46.52	3,950.0	329.9	347.9	-348.4	0.00	0.00	0.00
Delaware									
4,100.0	17.67	46.52	4,028.7	347.1	366.0	-366.6	0.00	0.00	0.00
4,200.0	17.67	46.52	4,123.9	368.0	388.1	-388.6	0.00	0.00	0.00
4,300.0	17.67	46.52	4,219.2	388.9	410.1	-410.7	0.00	0.00	0.00
4,400.0	17.67	46.52	4,314.5	409.8	432.1	-432.8	0.00	0.00	0.00
4,500.0	17.67	46.52	4,409.8	430.6	454.2	-454.8	0.00	0.00	0.00
4,600.0	17.67	46.52	4,505.1	451.5	476.2	-476.9	0.00	0.00	0.00
4,700.0	17.67	46.52	4,600.3	472.4	498.2	-498.9	0.00	0.00	0.00
4,800.0	17.67	46.52	4,695.6	493.3	520.2	-521.0	0.00	0.00	0.00
4,900.0	17.67	46.52	4,790.9	514.2	542.3	-543.1	0.00	0.00	0.00
5,000.0	17.67	46.52	4,886.2	535.1	564.3	-565.1	0.00	0.00	0.00
5,046.4	17.67	46.52	4,930.4	544.8	574.5	-575.4	0.00	0.00	0.00
5,100.0	16.60	46.52	4,981.6	555.6	586.0	-586.8	2.00	-2.00	0.00
5,200.0	14.60	46.52	5,077.9	574.1	605.5	-606.4	2.00	-2.00	0.00
5,300.0	12.60	46.52	5,175.1	590.3	622.5	-623.5	2.00	-2.00	0.00
5,400.0	10.60	46.52	5,273.1	604.1	637.1	-638.1	2.00	-2.00	0.00
5,500.0	8.60	46.52	5,371.7	615.6	649.2	-650.2	2.00	-2.00	0.00
5,600.0	6.60	46.52	5,470.8	624.7	658.8	-659.8	2.00	-2.00	0.00
5,700.0	4.60	46.52	5,570.3	631.4	665.9	-666.9	2.00	-2.00	0.00
5,800.0	2.60	46.52	5,670.1	635.8	670.5	-671.5	2.00	-2.00	0.00

XTO Energy

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well BEU DI 30 W 15-17 005H
Company:	Long Lead_Well Planning	**TVD Reference:**	RKB (+32) @ 3482.0usft
Project:	BEU DI 30	**MD Reference:**	RKB (+32) @ 3482.0usft
Site:	BEU DI 30 W 15-17 005H	**North Reference:**	Grid
Well:	BEU DI 30 W 15-17 005H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,900.0	0.60	46.52	5,770.1	637.7	672.5	-673.5	2.00	-2.00	0.00
5,914.9	0.30	46.52	5,785.0	637.8	672.6	-673.6	2.00	-2.00	0.00
Brushy Canyon									
5,929.9	0.00	0.00	5,800.0	637.8	672.6	-673.6	2.00	-2.00	0.00
7,269.9	0.00	0.00	7,140.0	637.8	672.6	-673.6	0.00	0.00	0.00
Basal Brushy Canyon									
7,500.9	0.00	0.00	7,371.0	637.8	672.6	-673.6	0.00	0.00	0.00
Bone Spring Lime									
8,059.9	0.00	0.00	7,930.0	637.8	672.6	-673.6	0.00	0.00	0.00
Avalon Mid Carb Top									
8,219.9	0.00	0.00	8,090.0	637.8	672.6	-673.6	0.00	0.00	0.00
Avalon Mid Carb Base									
8,429.9	0.00	0.00	8,300.0	637.8	672.6	-673.6	0.00	0.00	0.00
1st Bone Spring Lime									
8,706.9	0.00	0.00	8,577.0	637.8	672.6	-673.6	0.00	0.00	0.00
1st Bone Spring Sand									
8,828.7	0.00	0.00	8,698.8	637.8	672.6	-673.6	0.00	0.00	0.00
8,900.0	5.70	269.91	8,769.9	637.8	669.1	-670.1	8.00	8.00	0.00
8,941.4	9.01	269.91	8,811.0	637.8	663.8	-664.8	8.00	8.00	0.00
2nd Bone Spring Lime									
9,000.0	13.70	269.91	8,868.4	637.7	652.2	-653.2	8.00	8.00	0.00
9,100.0	21.70	269.91	8,963.6	637.7	621.8	-622.8	8.00	8.00	0.00
9,200.0	29.70	269.91	9,053.7	637.6	578.5	-579.5	8.00	8.00	0.00
9,219.0	31.22	269.91	9,070.0	637.6	568.9	-569.9	8.00	8.00	0.00
2nd Bone Spring Sand									
9,246.2	33.39	269.91	9,093.0	637.6	554.4	-555.4	8.00	8.00	0.00
2nd Bone Spring Sand Inner Carb									
9,300.0	37.70	269.91	9,136.8	637.5	523.1	-524.1	8.00	8.00	0.00
9,400.0	45.70	269.91	9,211.4	637.4	456.6	-457.6	8.00	8.00	0.00
9,500.0	53.70	269.91	9,276.0	637.3	380.4	-381.4	8.00	8.00	0.00
9,600.0	61.70	269.91	9,329.4	637.2	295.9	-296.9	8.00	8.00	0.00
9,700.0	69.70	269.91	9,370.5	637.0	204.9	-205.9	8.00	8.00	0.00
9,800.0	77.70	269.91	9,398.6	636.9	109.0	-110.0	8.00	8.00	0.00
9,806.9	78.25	269.91	9,400.0	636.8	102.2	-103.2	8.00	8.00	0.00
B Target Top									
9,900.0	85.70	269.91	9,413.0	636.7	10.1	-11.1	8.00	8.00	0.00
9,953.7	90.00	269.91	9,415.0	636.6	-43.6	42.6	8.00	8.00	0.00
B Landing Point - FTP_005H									
10,000.0	90.00	269.91	9,415.0	636.5	-89.9	88.9	0.00	0.00	0.00
10,100.0	90.00	269.91	9,415.0	636.4	-189.9	188.9	0.00	0.00	0.00
10,200.0	90.00	269.91	9,415.0	636.2	-289.9	288.9	0.00	0.00	0.00
10,300.0	90.00	269.91	9,415.0	636.0	-389.9	388.9	0.00	0.00	0.00
10,400.0	90.00	269.91	9,415.0	635.9	-489.9	488.9	0.00	0.00	0.00
10,500.0	90.00	269.91	9,415.0	635.7	-589.9	588.9	0.00	0.00	0.00
10,600.0	90.00	269.91	9,415.0	635.5	-689.9	688.9	0.00	0.00	0.00
10,700.0	90.00	269.91	9,415.0	635.4	-789.9	788.9	0.00	0.00	0.00
10,800.0	90.00	269.91	9,415.0	635.2	-889.9	888.9	0.00	0.00	0.00
10,900.0	90.00	269.91	9,415.0	635.0	-989.9	988.9	0.00	0.00	0.00
11,000.0	90.00	269.91	9,415.0	634.9	-1,089.9	1,088.9	0.00	0.00	0.00
11,100.0	90.00	269.91	9,415.0	634.7	-1,189.9	1,188.9	0.00	0.00	0.00
11,200.0	90.00	269.91	9,415.0	634.5	-1,289.9	1,288.9	0.00	0.00	0.00
11,300.0	90.00	269.91	9,415.0	634.4	-1,389.9	1,388.9	0.00	0.00	0.00

XTO Energy

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well BEU DI 30 W 15-17 005H
Company:	Long Lead_Well Planning	**TVD Reference:**	RKB (+32) @ 3482.0usft
Project:	BEU DI 30	**MD Reference:**	RKB (+32) @ 3482.0usft
Site:	BEU DI 30 W 15-17 005H	**North Reference:**	Grid
Well:	BEU DI 30 W 15-17 005H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,400.0	90.00	269.91	9,415.0	634.2	-1,489.9	1,488.9	0.00	0.00	0.00
11,500.0	90.00	269.91	9,415.0	634.1	-1,589.9	1,588.9	0.00	0.00	0.00
11,600.0	90.00	269.91	9,415.0	633.9	-1,689.9	1,688.9	0.00	0.00	0.00
11,700.0	90.00	269.91	9,415.0	633.7	-1,789.9	1,788.9	0.00	0.00	0.00
11,800.0	90.00	269.91	9,415.0	633.6	-1,889.9	1,888.9	0.00	0.00	0.00
11,900.0	90.00	269.91	9,415.0	633.4	-1,989.9	1,988.9	0.00	0.00	0.00
12,000.0	90.00	269.91	9,415.0	633.2	-2,089.9	2,088.9	0.00	0.00	0.00
12,100.0	90.00	269.91	9,415.0	633.1	-2,189.9	2,188.9	0.00	0.00	0.00
12,200.0	90.00	269.91	9,415.0	632.9	-2,289.9	2,288.9	0.00	0.00	0.00
12,300.0	90.00	269.91	9,415.0	632.7	-2,389.9	2,388.9	0.00	0.00	0.00
12,400.0	90.00	269.91	9,415.0	632.6	-2,489.9	2,488.9	0.00	0.00	0.00
12,500.0	90.00	269.91	9,415.0	632.4	-2,589.9	2,588.9	0.00	0.00	0.00
12,600.0	90.00	269.91	9,415.0	632.2	-2,689.9	2,688.9	0.00	0.00	0.00
12,700.0	90.00	269.91	9,415.0	632.1	-2,789.9	2,788.9	0.00	0.00	0.00
12,800.0	90.00	269.91	9,415.0	631.9	-2,889.9	2,888.9	0.00	0.00	0.00
12,900.0	90.00	269.91	9,415.0	631.7	-2,989.9	2,988.9	0.00	0.00	0.00
13,000.0	90.00	269.91	9,415.0	631.6	-3,089.9	3,088.9	0.00	0.00	0.00
13,100.0	90.00	269.91	9,415.0	631.4	-3,189.9	3,188.9	0.00	0.00	0.00
13,200.0	90.00	269.91	9,415.0	631.3	-3,289.9	3,288.9	0.00	0.00	0.00
13,300.0	90.00	269.91	9,415.0	631.1	-3,389.9	3,388.9	0.00	0.00	0.00
13,400.0	90.00	269.91	9,415.0	630.9	-3,489.9	3,488.9	0.00	0.00	0.00
13,500.0	90.00	269.91	9,415.0	630.8	-3,589.9	3,588.9	0.00	0.00	0.00
13,600.0	90.00	269.91	9,415.0	630.6	-3,689.9	3,688.9	0.00	0.00	0.00
13,700.0	90.00	269.91	9,415.0	630.4	-3,789.9	3,788.9	0.00	0.00	0.00
13,800.0	90.00	269.91	9,415.0	630.3	-3,889.9	3,888.9	0.00	0.00	0.00
13,900.0	90.00	269.91	9,415.0	630.1	-3,989.9	3,988.9	0.00	0.00	0.00
14,000.0	90.00	269.91	9,415.0	629.9	-4,089.8	4,088.9	0.00	0.00	0.00
14,100.0	90.00	269.91	9,415.0	629.8	-4,189.8	4,188.9	0.00	0.00	0.00
14,200.0	90.00	269.91	9,415.0	629.6	-4,289.8	4,288.9	0.00	0.00	0.00
14,300.0	90.00	269.91	9,415.0	629.4	-4,389.8	4,388.9	0.00	0.00	0.00
14,400.0	90.00	269.91	9,415.0	629.3	-4,489.8	4,488.9	0.00	0.00	0.00
14,500.0	90.00	269.91	9,415.0	629.1	-4,589.8	4,588.9	0.00	0.00	0.00
14,600.0	90.00	269.91	9,415.0	629.0	-4,689.8	4,688.9	0.00	0.00	0.00
14,700.0	90.00	269.91	9,415.0	628.8	-4,789.8	4,788.9	0.00	0.00	0.00
14,800.0	90.00	269.91	9,415.0	628.6	-4,889.8	4,888.9	0.00	0.00	0.00
14,900.0	90.00	269.91	9,415.0	628.5	-4,989.8	4,988.9	0.00	0.00	0.00
15,000.0	90.00	269.91	9,415.0	628.3	-5,089.8	5,088.9	0.00	0.00	0.00
15,100.0	90.00	269.91	9,415.0	628.1	-5,189.8	5,188.9	0.00	0.00	0.00
15,200.0	90.00	269.91	9,415.0	628.0	-5,289.8	5,288.9	0.00	0.00	0.00
15,300.0	90.00	269.91	9,415.0	627.8	-5,389.8	5,388.9	0.00	0.00	0.00
15,400.0	90.00	269.91	9,415.0	627.6	-5,489.8	5,488.9	0.00	0.00	0.00
15,500.0	90.00	269.91	9,415.0	627.5	-5,589.8	5,588.9	0.00	0.00	0.00
15,600.0	90.00	269.91	9,415.0	627.3	-5,689.8	5,688.9	0.00	0.00	0.00
15,700.0	90.00	269.91	9,415.0	627.1	-5,789.8	5,788.9	0.00	0.00	0.00
15,800.0	90.00	269.91	9,415.0	627.0	-5,889.8	5,888.9	0.00	0.00	0.00
15,900.0	90.00	269.91	9,415.0	626.8	-5,989.8	5,988.9	0.00	0.00	0.00
16,000.0	90.00	269.91	9,415.0	626.6	-6,089.8	6,088.9	0.00	0.00	0.00
16,100.0	90.00	269.91	9,415.0	626.5	-6,189.8	6,188.9	0.00	0.00	0.00
16,200.0	90.00	269.91	9,415.0	626.3	-6,289.8	6,288.9	0.00	0.00	0.00
16,300.0	90.00	269.91	9,415.0	626.2	-6,389.8	6,388.9	0.00	0.00	0.00
16,400.0	90.00	269.91	9,415.0	626.0	-6,489.8	6,488.9	0.00	0.00	0.00
16,500.0	90.00	269.91	9,415.0	625.8	-6,589.8	6,588.9	0.00	0.00	0.00
16,600.0	90.00	269.91	9,415.0	625.7	-6,689.8	6,688.9	0.00	0.00	0.00
16,700.0	90.00	269.91	9,415.0	625.5	-6,789.8	6,788.9	0.00	0.00	0.00

XTO Energy

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well BEU DI 30 W 15-17 005H
Company:	Long Lead_Well Planning	**TVD Reference:**	RKB (+32) @ 3482.0usft
Project:	BEU DI 30	**MD Reference:**	RKB (+32) @ 3482.0usft
Site:	BEU DI 30 W 15-17 005H	**North Reference:**	Grid
Well:	BEU DI 30 W 15-17 005H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,800.0	90.00	269.91	9,415.0	625.3	-6,889.8	6,888.9	0.00	0.00	0.00
16,900.0	90.00	269.91	9,415.0	625.2	-6,989.8	6,988.9	0.00	0.00	0.00
17,000.0	90.00	269.91	9,415.0	625.0	-7,089.8	7,088.9	0.00	0.00	0.00
17,100.0	90.00	269.91	9,415.0	624.8	-7,189.8	7,188.9	0.00	0.00	0.00
17,200.0	90.00	269.91	9,415.0	624.7	-7,289.8	7,288.9	0.00	0.00	0.00
17,300.0	90.00	269.91	9,415.0	624.5	-7,389.8	7,388.9	0.00	0.00	0.00
17,400.0	90.00	269.91	9,415.0	624.3	-7,489.8	7,488.9	0.00	0.00	0.00
17,500.0	90.00	269.91	9,415.0	624.2	-7,589.8	7,588.9	0.00	0.00	0.00
17,600.0	90.00	269.91	9,415.0	624.0	-7,689.8	7,688.9	0.00	0.00	0.00
17,700.0	90.00	269.91	9,415.0	623.8	-7,789.8	7,788.9	0.00	0.00	0.00
17,800.0	90.00	269.91	9,415.0	623.7	-7,889.8	7,888.9	0.00	0.00	0.00
17,900.0	90.00	269.91	9,415.0	623.5	-7,989.8	7,988.9	0.00	0.00	0.00
18,000.0	90.00	269.91	9,415.0	623.4	-8,089.8	8,088.9	0.00	0.00	0.00
18,100.0	90.00	269.91	9,415.0	623.2	-8,189.8	8,188.9	0.00	0.00	0.00
18,200.0	90.00	269.91	9,415.0	623.0	-8,289.8	8,288.9	0.00	0.00	0.00
18,300.0	90.00	269.91	9,415.0	622.9	-8,389.8	8,388.9	0.00	0.00	0.00
18,400.0	90.00	269.91	9,415.0	622.7	-8,489.8	8,488.9	0.00	0.00	0.00
18,500.0	90.00	269.91	9,415.0	622.5	-8,589.8	8,588.9	0.00	0.00	0.00
18,600.0	90.00	269.91	9,415.0	622.4	-8,689.8	8,688.9	0.00	0.00	0.00
18,700.0	90.00	269.91	9,415.0	622.2	-8,789.8	8,788.9	0.00	0.00	0.00
18,800.0	90.00	269.91	9,415.0	622.0	-8,889.8	8,888.9	0.00	0.00	0.00
18,900.0	90.00	269.91	9,415.0	621.9	-8,989.8	8,988.9	0.00	0.00	0.00
19,000.0	90.00	269.91	9,415.0	621.7	-9,089.8	9,088.9	0.00	0.00	0.00
19,100.0	90.00	269.91	9,415.0	621.5	-9,189.8	9,188.9	0.00	0.00	0.00
19,200.0	90.00	269.91	9,415.0	621.4	-9,289.8	9,288.9	0.00	0.00	0.00
19,300.0	90.00	269.91	9,415.0	621.2	-9,389.8	9,388.9	0.00	0.00	0.00
19,400.0	90.00	269.91	9,415.0	621.0	-9,489.8	9,488.9	0.00	0.00	0.00
19,500.0	90.00	269.91	9,415.0	620.9	-9,589.8	9,588.9	0.00	0.00	0.00
19,600.0	90.00	269.91	9,415.0	620.7	-9,689.8	9,688.9	0.00	0.00	0.00
19,700.0	90.00	269.91	9,415.0	620.6	-9,789.8	9,788.9	0.00	0.00	0.00
19,800.0	90.00	269.91	9,415.0	620.4	-9,889.8	9,888.9	0.00	0.00	0.00
19,900.0	90.00	269.91	9,415.0	620.2	-9,989.8	9,988.9	0.00	0.00	0.00
20,000.0	90.00	269.91	9,415.0	620.1	-10,089.8	10,088.9	0.00	0.00	0.00
20,100.0	90.00	269.91	9,415.0	619.9	-10,189.8	10,188.9	0.00	0.00	0.00
20,200.0	90.00	269.91	9,415.0	619.7	-10,289.8	10,288.9	0.00	0.00	0.00
20,300.0	90.00	269.91	9,415.0	619.6	-10,389.8	10,388.9	0.00	0.00	0.00
20,400.0	90.00	269.91	9,415.0	619.4	-10,489.8	10,488.9	0.00	0.00	0.00
20,500.0	90.00	269.91	9,415.0	619.2	-10,589.8	10,588.9	0.00	0.00	0.00
20,600.0	90.00	269.91	9,415.0	619.1	-10,689.8	10,688.9	0.00	0.00	0.00
20,700.0	90.00	269.91	9,415.0	618.9	-10,789.8	10,788.9	0.00	0.00	0.00
20,800.0	90.00	269.91	9,415.0	618.7	-10,889.8	10,888.9	0.00	0.00	0.00
20,900.0	90.00	269.91	9,415.0	618.6	-10,989.8	10,988.9	0.00	0.00	0.00
21,000.0	90.00	269.91	9,415.0	618.4	-11,089.8	11,088.9	0.00	0.00	0.00
21,100.0	90.00	269.91	9,415.0	618.3	-11,189.8	11,188.9	0.00	0.00	0.00
21,200.0	90.00	269.91	9,415.0	618.1	-11,289.8	11,288.9	0.00	0.00	0.00
21,300.0	90.00	269.91	9,415.0	617.9	-11,389.8	11,388.9	0.00	0.00	0.00
21,400.0	90.00	269.91	9,415.0	617.8	-11,489.8	11,488.9	0.00	0.00	0.00
21,500.0	90.00	269.91	9,415.0	617.6	-11,589.8	11,588.9	0.00	0.00	0.00
21,600.0	90.00	269.91	9,415.0	617.4	-11,689.8	11,688.9	0.00	0.00	0.00
21,700.0	90.00	269.91	9,415.0	617.3	-11,789.8	11,788.9	0.00	0.00	0.00
21,800.0	90.00	269.91	9,415.0	617.1	-11,889.8	11,888.9	0.00	0.00	0.00
21,900.0	90.00	269.91	9,415.0	616.9	-11,989.8	11,988.9	0.00	0.00	0.00
22,000.0	90.00	269.91	9,415.0	616.8	-12,089.8	12,088.9	0.00	0.00	0.00
22,100.0	90.00	269.91	9,415.0	616.6	-12,189.8	12,188.9	0.00	0.00	0.00

XTO Energy

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well BEU DI 30 W 15-17 005H
Company:	Long Lead_Well Planning	**TVD Reference:**	RKB (+32) @ 3482.0usft
Project:	BEU DI 30	**MD Reference:**	RKB (+32) @ 3482.0usft
Site:	BEU DI 30 W 15-17 005H	**North Reference:**	Grid
Well:	BEU DI 30 W 15-17 005H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,200.0	90.00	269.91	9,415.0	616.4	-12,289.8	12,288.9	0.00	0.00	0.00
22,300.0	90.00	269.91	9,415.0	616.3	-12,389.8	12,388.9	0.00	0.00	0.00
22,400.0	90.00	269.91	9,415.0	616.1	-12,489.8	12,488.9	0.00	0.00	0.00
22,500.0	90.00	269.91	9,415.0	615.9	-12,589.8	12,588.9	0.00	0.00	0.00
22,600.0	90.00	269.91	9,415.0	615.8	-12,689.8	12,688.9	0.00	0.00	0.00
22,700.0	90.00	269.91	9,415.0	615.6	-12,789.8	12,788.9	0.00	0.00	0.00
22,800.0	90.00	269.91	9,415.0	615.5	-12,889.8	12,888.9	0.00	0.00	0.00
22,900.0	90.00	269.91	9,415.0	615.3	-12,989.8	12,988.9	0.00	0.00	0.00
23,000.0	90.00	269.91	9,415.0	615.1	-13,089.8	13,088.9	0.00	0.00	0.00
23,100.0	90.00	269.91	9,415.0	615.0	-13,189.8	13,188.9	0.00	0.00	0.00
23,200.0	90.00	269.91	9,415.0	614.8	-13,289.8	13,288.9	0.00	0.00	0.00
23,300.0	90.00	269.91	9,415.0	614.6	-13,389.8	13,388.9	0.00	0.00	0.00
23,400.0	90.00	269.91	9,415.0	614.5	-13,489.8	13,488.9	0.00	0.00	0.00
23,500.0	90.00	269.91	9,415.0	614.3	-13,589.8	13,588.9	0.00	0.00	0.00
23,600.0	90.00	269.91	9,415.0	614.1	-13,689.8	13,688.9	0.00	0.00	0.00
23,700.0	90.00	269.91	9,415.0	614.0	-13,789.8	13,788.9	0.00	0.00	0.00
23,800.0	90.00	269.91	9,415.0	613.8	-13,889.8	13,888.9	0.00	0.00	0.00
23,900.0	90.00	269.91	9,415.0	613.6	-13,989.8	13,988.9	0.00	0.00	0.00
24,000.0	90.00	269.91	9,415.0	613.5	-14,089.8	14,088.9	0.00	0.00	0.00
24,100.0	90.00	269.91	9,415.0	613.3	-14,189.8	14,188.9	0.00	0.00	0.00
24,200.0	90.00	269.91	9,415.0	613.1	-14,289.8	14,288.9	0.00	0.00	0.00
24,300.0	90.00	269.91	9,415.0	613.0	-14,389.8	14,388.9	0.00	0.00	0.00
24,400.0	90.00	269.91	9,415.0	612.8	-14,489.8	14,488.9	0.00	0.00	0.00
24,500.0	90.00	269.91	9,415.0	612.7	-14,589.8	14,588.9	0.00	0.00	0.00
24,600.0	90.00	269.91	9,415.0	612.5	-14,689.8	14,688.9	0.00	0.00	0.00
24,700.0	90.00	269.91	9,415.0	612.3	-14,789.8	14,788.9	0.00	0.00	0.00
24,800.0	90.00	269.91	9,415.0	612.2	-14,889.8	14,888.9	0.00	0.00	0.00
24,900.0	90.00	269.91	9,415.0	612.0	-14,989.8	14,988.9	0.00	0.00	0.00
25,000.0	90.00	269.91	9,415.0	611.8	-15,089.8	15,088.9	0.00	0.00	0.00
25,100.0	90.00	269.91	9,415.0	611.7	-15,189.8	15,188.9	0.00	0.00	0.00
25,200.0	90.00	269.91	9,415.0	611.5	-15,289.8	15,288.9	0.00	0.00	0.00
25,300.0	90.00	269.91	9,415.0	611.3	-15,389.8	15,388.9	0.00	0.00	0.00
25,400.0	90.00	269.91	9,415.0	611.2	-15,489.8	15,488.9	0.00	0.00	0.00
25,500.0	90.00	269.91	9,415.0	611.0	-15,589.8	15,588.9	0.00	0.00	0.00
25,600.0	90.00	269.91	9,415.0	610.8	-15,689.8	15,688.9	0.00	0.00	0.00
25,626.1	90.00	269.91	9,415.0	610.8	-15,715.9	15,714.9	0.00	0.00	0.00
LTP_005H									
25,676.1	90.00	269.91	9,415.0	610.7	-15,765.9	15,764.9	0.00	0.00	0.00
BHL_005H									

XTO Energy

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well BEU DI 30 W 15-17 005H
Company:	Long Lead_Well Planning	**TVD Reference:**	RKB (+32) @ 3482.0usft
Project:	BEU DI 30	**MD Reference:**	RKB (+32) @ 3482.0usft
Site:	BEU DI 30 W 15-17 005H	**North Reference:**	Grid
Well:	BEU DI 30 W 15-17 005H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL_005H - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	570,609.70	649,472.60	32° 34' 3.996 N	103° 50' 53.319 W
LTP_005H - plan hits target center - Point	0.00	0.00	9,415.0	610.8	-15,715.9	571,220.50	633,756.70	32° 34' 10.711 N	103° 53' 56.936 W
FTP_005H - plan hits target center - Point	0.00	0.00	9,415.0	636.6	-43.6	571,246.30	649,429.00	32° 34' 10.297 N	103° 50' 53.795 W
BHL_005H - plan hits target center - Point	0.00	0.00	9,415.0	610.7	-15,765.9	571,220.40	633,706.70	32° 34' 10.713 N	103° 53' 57.520 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
690.0	690.0	Rustler			
950.0	950.0	Salado			
1,970.0	1,970.0	Base Salt			
2,748.5	2,740.0	Capitan			
4,017.4	3,950.0	Delaware			
5,914.9	5,785.0	Brushy Canyon			
7,269.9	7,140.0	Basal Brushy Canyon			
7,500.9	7,371.0	Bone Spring Lime			
8,059.9	7,930.0	Avalon Mid Carb Top			
8,219.9	8,090.0	Avalon Mid Carb Base			
8,429.9	8,300.0	1st Bone Spring Lime			
8,706.9	8,577.0	1st Bone Spring Sand			
8,941.4	8,811.0	2nd Bone Spring Lime			
9,219.0	9,070.0	2nd Bone Spring Sand			
9,246.2	9,093.0	2nd Bone Spring Sand Inner Carb			
9,806.9	9,400.0	B Target Top			
9,953.7	9,415.0	B Landing Point			

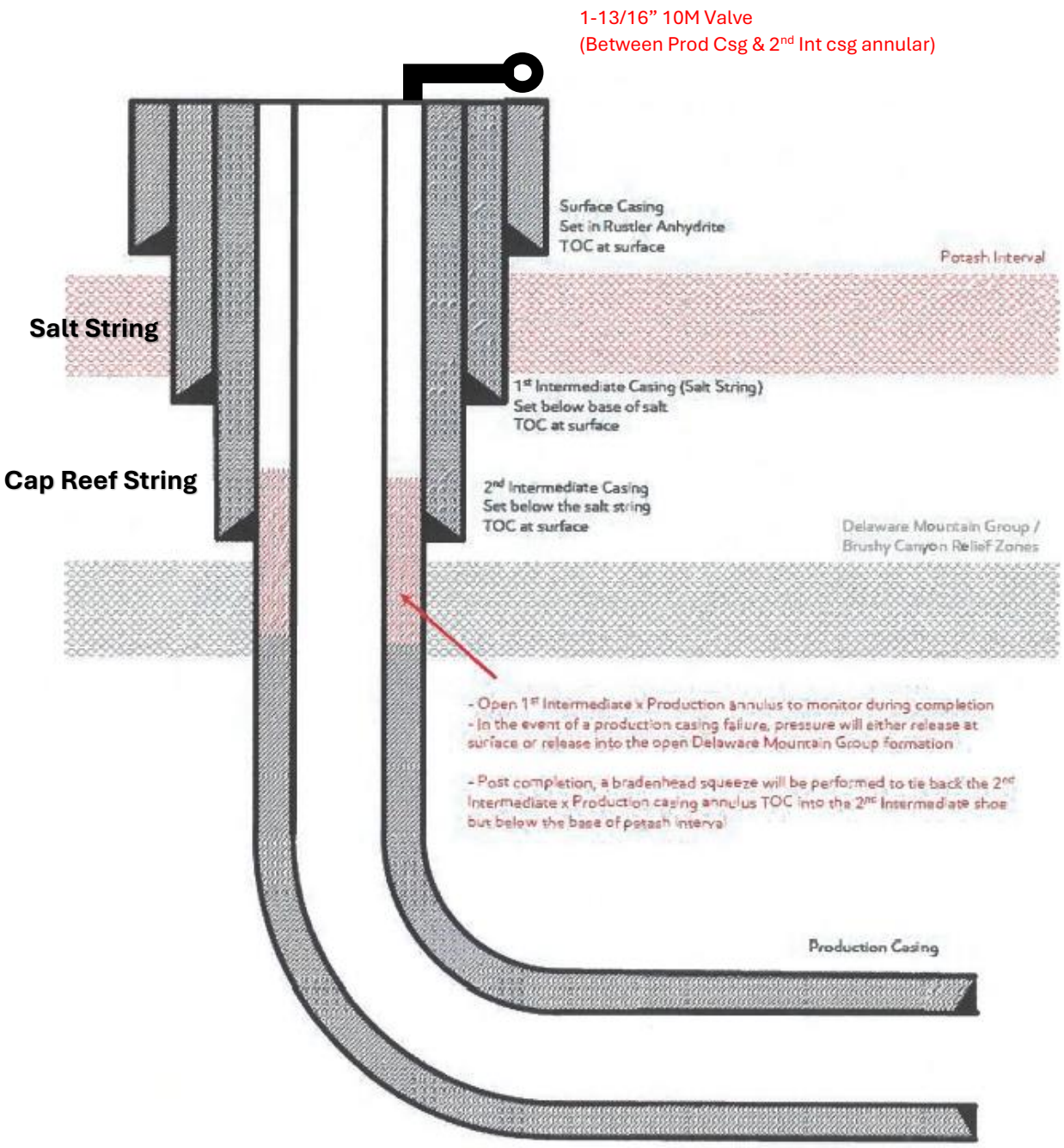


Figure E – Potash + Cap Reef (2 Int Csg at top of DMG)

Updated May 2024:

XTO is aware of the R-111-Q update and will comply with these requirements including (but not limited to):

1. Alignment with KPLA requirements per schematic above, leaving open annulus for pressure mnoitoring during frac and utilizing new casing that meets API standards.
2. Contingency plans in place to divert formation fluids away fromm salt interval in even of production casin failure.
3. Bradenhead squeeze to be completed within 180 days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126.
4. Productin Cement to be tied back no less than 500ft inside previous casing shoe

Tenaris

TenarisHydril Wedge 461®

Coupling	Pipe Body
Grade: **P110-CY**	Grade: **P110-CY**
Body: **White**	1st Band: **White**
1st Band: **Grey**	2nd Band: **Grey**
2nd Band: **-**	3rd Band: **-**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	6.000 in.	**Wall Thickness**	0.438 in.	**Grade**	P110-CY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry

Nominal OD	6.000 in.	**Wall Thickness**	0.438 in.
Nominal Weight	26.00 lb/ft	**Plain End Weight**	26.04 lb/ft
Drift	4.999 in.	**OD Tolerance**	API
Nominal ID	5.124 in.		

Performance

Body Yield Strength	842 x1000 lb
Min. Internal Yield Pressure	14,050 psi
SMYS	110,000 psi
Collapse Pressure	13,680 psi

Connection Data

Geometry

Connection OD	6.800 in.
Coupling Length	8.914 in.
Connection ID	5.170 in.
Make-up Loss	4.375 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance

Tension Efficiency	100 %
Joint Yield Strength	842 x1000 lb
Internal Pressure Capacity	14,050 psi
Compression Efficiency	100 %
Compression Strength	842 x1000 lb
Max. Allowable Bending	84.03 °/100 ft
External Pressure Capacity	13,680 psi
Coupling Face Load	306,000 lb

Make-Up Torques

Minimum	20,000 ft-lb
Optimum	21,000 ft-lb
Maximum	25,200 ft-lb

Operation Limit Torques

Operating Torque	52,000 ft-lb
Yield Torque	61,000 ft-lb

Buck-On

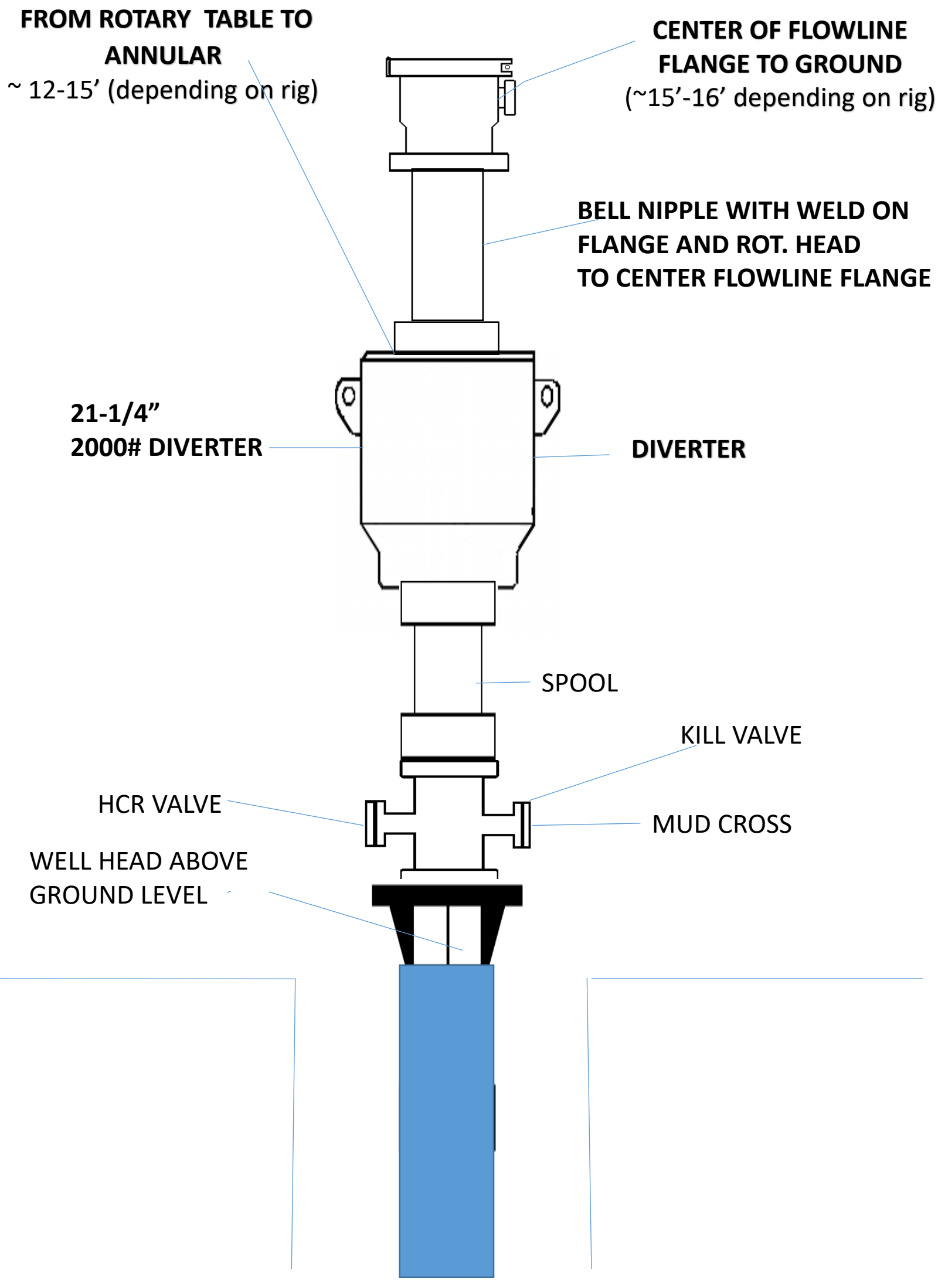
Minimum	25,200 ft-lb
Maximum	26,700 ft-lb

Notes

In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

PIII/CI


FROM ROTARY TABLE TO ANNULAR
~ 12-15’ (depending on rig)
CENTER OF FLOWLINE FLANGE TO GROUND
(~15’-16’ depending on rig)
BELL NIPPLE WITH WELD ON FLANGE AND ROT. HEAD TO CENTER FLOWLINE FLANGE
21-1/4”
2000# DIVERTER
DIVERTER
SPOOL
KILL VALVE
HCR VALVE
MUD CROSS
WELL HEAD ABOVE GROUND LEVEL

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
    a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
    b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
    a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
    a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
    b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER:	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#:	15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N:	IMR RETEST SN 74621 ASSET #66-1531
PART DESCRIPTION:	RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES
SALES ORDER #:	529480
QUANTITY:	1
SERIAL #:	74621 H3-012524-1

SIGNATURE: F. OSUNOS

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

H3-15716

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company:	Nabors Industries Inc.
Production description:	74621/66-1531
Sales order #:	529480
Customer reference:	FG1213

TEST OBJECT

Serial number:	H3-012524-1
Lot number:	
Description:	74621/66-1531
Hose ID:	3" 16C CK
Part number:	

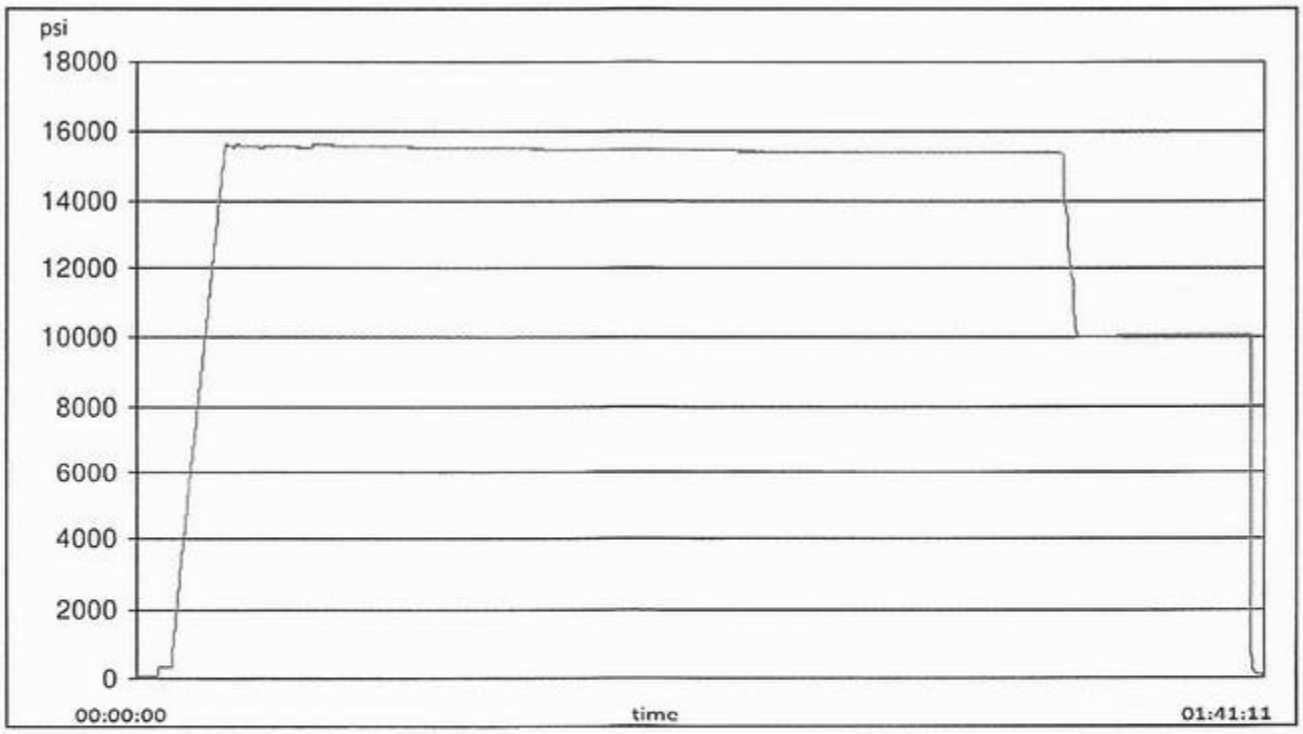
TEST INFORMATION

Test procedure:	GTS-04-053	
Test pressure:	15000.00	psi
Test pressure hold:	3600.00	sec
Work pressure:	10000.00	psi
Work pressure hold:	900.00	sec
Length difference:	0.00	%
Length difference:	0.00	inch

Fitting 1:	3.0 x 4-1/16 10K
Part number:	
Description:	
Fitting 2:	3.0 x 4-1/16 10K
Part number:	
Description:	

Visual check:		
Pressure test result:	PASS	
Length measurement result:		
Length:	45	feet

Test operator: Travis



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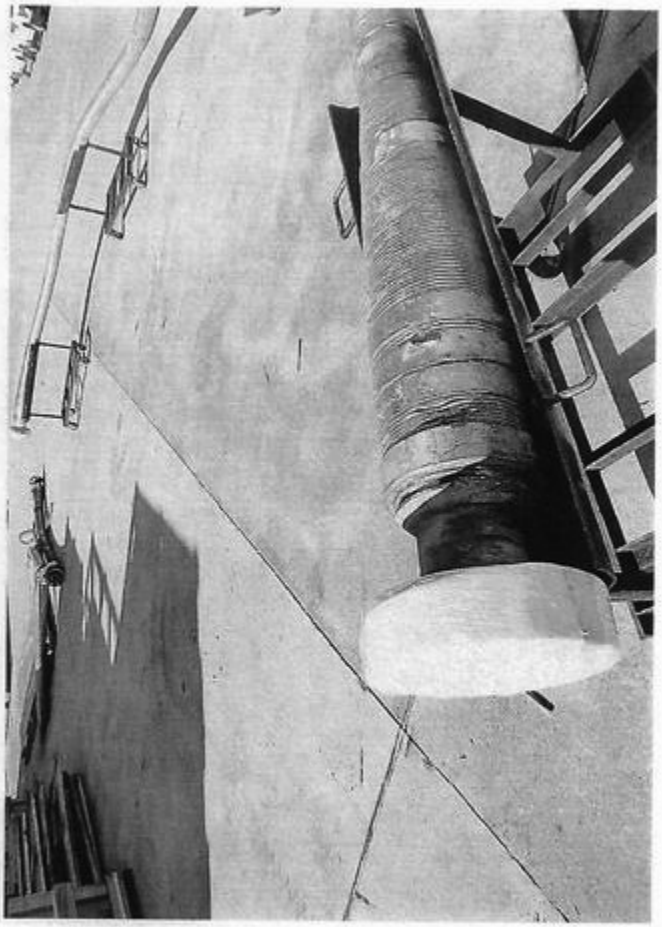
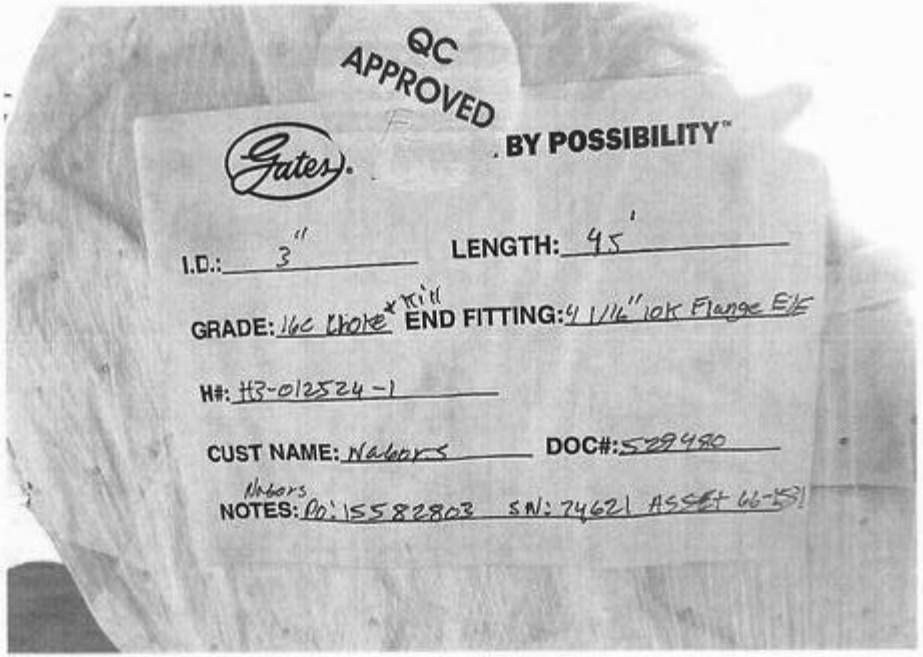
TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

Comment





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 415448

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 415448
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Operator must comply with all of the R-111-Q requirements.	12/27/2024
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	12/27/2024