

Well Name: POKER LAKE UNIT 16 TWR	Well Location: T24S / R31E / SEC 21 / NENW / 32.208758 / -103.78389	County or Parish/State: EDDY / NM
Well Number: 154H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0000506A, NMNM0506A	Unit or CA Name: DONOTUSE, POKER LAKE UNIT	Unit or CA Number: NMNM071016Z, NMNM71016X
US Well Number: 3001547415	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2668433

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 04/25/2022	Time Sundry Submitted: 11:09
Date proposed operation will begin: 05/10/2022	

Procedure Description: **Pool Change, Spacing, Casing/Cement, Drilling Variance Changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: No Additional Surface Disturbance Change formation from Wolfcamp to Bone Spring. Change pool from Purple Sage; Wolfcamp (98220) to Cotton Draw; Bone Spring, South (96546). Change BHL fr/200'FSL & 2310'FWL to 50'FSL & 1320'FWL, Section 28-T24S-R31E Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan Multibowl Diagram

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

PLU_16_TWR_154H_Attachments_20220425110945.pdf

Received by OCD: 12/17/2024 9:49:21 AM

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Conditions of Approval

Additional

Sec_21_24S_34E_NMP_2668433_PLU_16_TWR_154H_Eddy_NMNM0506A__XTO_COAs_20220607145605.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: STEPHANIE RABADUE

Signed on: APR 25, 2022 11:09 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Coordinator

Street Address: 500 W. Illinois St, Ste 100

City: MidlandState: TX

Phone: (432) 620-6714

Email address: STEPHANIE.RABADUE@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: 02/08/2023

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.

1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No.
2. Name of Operator		6. If Indian, Allottee or Tribe Name
3a. Address	3b. Phone No. (include area code)	7. If Unit of CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		8. Well Name and No.
		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				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ 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 recompleate 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 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

Additional Remarks

Attachments:

C102

Drilling Program

Directional Plan

Multibowl Diagram

Location of Well

0. SHL: NENW / 485 FNL / 2290 FWL / TWSP: 24S / RANGE: 31E / SECTION: 21 / LAT: 32.208758 / LONG: -103.78389 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 330 FNL / 2310 FWL / TWSP: 24S / RANGE: 31E / SECTION: 21 / LAT: 32.209182 / LONG: -103.783825 (TVD: 12644 feet, MD: 13003 feet)

BHL: SESW / 200 FSL / 2310 FWL / TWSP: 24S / RANGE: 31E / SECTION: 28 / LAT: 32.181603 / LONG: -103.783789 (TVD: 12644 feet, MD: 23035 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
WELL NAME & NO.:	Poker Lake Unit 16 TWR 154H
LOCATION:	Sec 21-24S-31E-NMP
COUNTY:	Eddy County, New Mexico

Updated COAs per **Sundry 2668433**. Includes casing and BHL changes. Offline cementing approved for surface and intermediate casing.

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☒ Unit

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 Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately 770 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) 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.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
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. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 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 OOGO2.III.A.2.i 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.

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)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ 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 Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
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 OOGO2.III.A.2.i 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 when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-47415	² Pool Code 96546	³ Pool Name Cotton Draw; Bone Spring, South
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 16 TWR	⁶ Well Number 154H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,510'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	24 S	31 E		485	NORTH	2,290	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	24 S	31 E		50	SOUTH	1,320	WEST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	¹⁶	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stephanie Rabadue</i> 01/22/2022 Signature _____ Date _____ Stephanie Rabadue Printed Name _____ stephanie.rabadue@exxonmobil.com E-mail Address _____
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 01-20-2022 Date of Survey _____ Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number _____ LM/AW 2018010226	
	¹⁹ CORNER COORDINATES (NAD83 NME) SHL (NAD83 NME) Y = 440,114.4 X = 711,272.5 LAT. = 32.208758 °N LONG. = 103.783890 °W FTP (NAD83 NME) Y = 440,263.6 X = 710,301.7 LAT. = 32.209181 °N LONG. = 103.787026 °W LTP (NAD83 NME) Y = 430,130.3 X = 710,364.9 LAT. = 32.181326 °N LONG. = 103.786988 °W BHL (NAD83 NME) Y = 430,080.3 X = 710,365.2 LAT. = 32.181189 °N LONG. = 103.786988 °W	
	²⁰ CORNER COORDINATES (NAD27 NME) SHL (NAD27 NME) Y = 440,055.6 X = 670,088.5 LAT. = 32.208634 °N LONG. = 103.783406 °W FTP (NAD27 NME) Y = 440,204.7 X = 669,117.8 LAT. = 32.209057 °N LONG. = 103.786542 °W LTP (NAD27 NME) Y = 430,071.7 X = 669,180.5 LAT. = 32.181202 °N LONG. = 103.786506 °W BHL (NAD27 NME) Y = 430,021.7 X = 669,180.8 LAT. = 32.181065 °N LONG. = 103.786506 °W	

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

XTO Energy Inc.
PLU 16 Twin Wells Ranch 154H
Projected TD: 20524' MD / 10370' TVD
SHL: 485' FNL & 2290' FWL , Section 21, T24S, R31E
BHL: 50' FSL & 1320' FWL , Section 28, T24S, 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	681'	Water
Top of Salt	955'	Water
Base of Salt	4166'	Water
Delaware	4400'	Water
Brushy Canyon	6515'	Water/Oil/Gas
Bone Spring	8230'	Water
1st Bone Spring Ss	9252'	Water/Oil/Gas
2nd Bone Spring Ss	9998'	Water/Oil/Gas
Target/Land Curve	10370'	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 surface fresh water sands will be protected by setting 9.625 inch casing @ 781' (174' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9300' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 20524 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9000 feet).

3. Casing Design

Hole Size	MD	TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 781'	781'	9.625	40	J-55	BTC	New	1.49	7.27	20.17
8.75	0' – 4000'	3966'	7.625	29.7	RY P-110	Flush Joint	New	3.04	2.65	2.02
8.75	4000' – 9300'	9208'	7.625	29.7	HC L-80	Flush Joint	New	2.21	2.15	2.58
6.75	0' – 9200'	9108'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.32	2.26
6.75	9200' - 20524'	10370'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.06	2.26

· Production casing meets the clearance requirements as tapered string crosses over before encountering the intermediate shoe, per Onshore Order 2.3.B.1

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry

· XTO requests to not utilize centralizers in the curve and lateral

· 7.625 Collapse analyzed using 50% evacuation based on regional experience.

· 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

· Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

· XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 11" 10M top flange x 9-5/8" bottom

B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 781

Lead: 160 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 130 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: 7.625, 29.7 New casing to be set at +/- 9300

1st Stage

Optional Lead: 350 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 250 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6515

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)

Tail: 730 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: 0

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6515') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and 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 per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 20524

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9000 feet

Tail: 760 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9888 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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.

5. Pressure Control Equipment

Once the permanent WH is installed on the 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3111 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 9.625, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

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 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. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size		Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 781'	12.25		FW/Native	8.7-9.2	35-40	NC
781' - 9300'	8.75		FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
9300' - 20524'	6.75		OBM	10-10.5	50-60	NC - 20

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 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud 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 Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- H2S monitors will be on location when drilling below the 9.625 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will include None

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 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 5392 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.

Well Plan Report - PLU 16 TWR 154H

Measured Depth: 20524.39 ft Site: PLU 16 TWR B/C
TVD RKB: 10370.00 ft Slot: 5
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 440047.98 ft
Easting: 670106.43 ft
RKB: 3543.00 ft
Ground Level: 3513.00 ft
North Reference: Grid
Convergence Angle: 0.29 Deg

Plan Sections		PLU 16 TWR 154H							
Measured		TVD				Build	Turn	Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
2600.00	12.00	293.49	2595.62	24.96	-57.42	2.00	0.00	2.00	
3800.00	12.00	293.49	3769.40	124.42	-286.23	0.00	0.00	0.00	
3930.33	9.39	293.49	3897.45	134.06	-308.41	-2.00	0.00	2.00	
8121.50	9.39	293.49	8032.43	406.77	-935.76	0.00	0.00	0.00	
8591.18	0.00	0.00	8500.00	422.08	-970.99	-2.00	0.00	2.00	
9888.18	0.00	0.00	9797.00	422.08	-970.99	0.00	0.00	0.00	
10788.18	90.00	180.00	10369.96	-150.88	-970.99	10.00	0.00	10.00	
20524.39	90.00	179.38	10370.00	-9886.90	-918.31	-0.00	-0.01	0.01	PLU 16 TWR BHL 4

Position Uncertainty		PLU 16 TWR 154H												
Measured		TVD Highside			Lateral			Vertical		Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.297	0.000	0.000	0.000	0.000	0.000	OWSG MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.358	0.000	0.358	0.000	2.299	0.000	0.000	0.358	0.358	0.000	OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.717	0.000	2.307	0.000	0.000	0.717	0.717	0.000	OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	1.075	0.000	2.321	0.000	0.000	1.075	1.075	0.000	OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.434	0.000	2.340	0.000	0.000	1.434	1.434	0.000	OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.792	0.000	2.364	0.000	0.000	1.792	1.792	0.000	OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	2.151	0.000	2.394	0.000	0.000	2.151	2.151	0.000	OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.509	0.000	2.428	0.000	0.000	2.509	2.509	0.000	OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.868	0.000	2.467	0.000	0.000	2.868	2.868	0.000	OWSG MWD+IFR1+MS

900.000	0.000	0.000	900.000	3.226	0.000	3.226	0.000	2.511	0.000	0.000	3.226	3.226	0.000	OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.585	0.000	2.560	0.000	0.000	3.585	3.585	0.000	OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.943	0.000	2.613	0.000	0.000	3.943	3.943	0.000	OWSG MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.302	0.000	4.302	0.000	2.670	0.000	0.000	4.302	4.302	0.000	OWSG MWD+IFR1+MS
1300.000	0.000	0.000	1300.000	4.660	0.000	4.660	0.000	2.731	0.000	0.000	4.660	4.660	0.000	OWSG MWD+IFR1+MS
1400.000	0.000	0.000	1400.000	5.019	0.000	5.019	0.000	2.797	0.000	0.000	5.019	5.019	0.000	OWSG MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.377	0.000	5.377	0.000	2.866	0.000	0.000	5.377	5.377	0.000	OWSG MWD+IFR1+MS
1600.000	0.000	0.000	1600.000	5.736	0.000	5.736	0.000	2.939	0.000	0.000	5.736	5.736	0.000	OWSG MWD+IFR1+MS
1700.000	0.000	0.000	1700.000	6.094	0.000	6.094	0.000	3.016	0.000	0.000	6.094	6.094	0.000	OWSG MWD+IFR1+MS
1800.000	0.000	0.000	1800.000	6.452	0.000	6.452	0.000	3.096	0.000	0.000	6.452	6.452	0.000	OWSG MWD+IFR1+MS
1900.000	0.000	0.000	1900.000	6.811	0.000	6.811	0.000	3.179	0.000	0.000	6.811	6.811	0.000	OWSG MWD+IFR1+MS
2000.000	0.000	0.000	2000.000	7.169	0.000	7.169	0.000	3.266	0.000	0.000	7.169	7.169	0.000	OWSG MWD+IFR1+MS
2100.000	2.000	293.494	2099.980	7.519	0.000	7.522	0.000	3.355	0.000	0.000	7.522	7.522	7.146	OWSG MWD+IFR1+MS
2200.000	4.000	293.494	2199.838	7.855	0.000	7.870	0.000	3.446	0.000	0.000	7.871	7.870	10.555	OWSG MWD+IFR1+MS
2300.000	6.000	293.494	2299.452	8.183	0.000	8.218	0.000	3.538	0.000	0.000	8.220	8.217	8.301	OWSG MWD+IFR1+MS
2400.000	8.000	293.494	2398.702	8.502	0.000	8.566	0.000	3.632	0.000	0.000	8.570	8.565	4.488	OWSG MWD+IFR1+MS
2500.000	10.000	293.494	2497.465	8.814	0.000	8.914	0.000	3.728	0.000	0.000	8.919	8.913	-0.989	OWSG MWD+IFR1+MS
2600.000	12.000	293.494	2595.623	9.117	0.000	9.263	0.000	3.826	0.000	0.000	9.268	9.261	-8.432	OWSG MWD+IFR1+MS
2700.000	12.000	293.494	2693.438	9.470	0.000	9.614	0.000	3.932	0.000	0.000	9.618	9.610	-21.295	OWSG MWD+IFR1+MS
2800.000	12.000	293.494	2791.253	9.825	0.000	9.966	0.000	4.047	0.000	0.000	9.970	9.958	-32.899	OWSG MWD+IFR1+MS
2900.000	12.000	293.494	2889.067	10.183	0.000	10.321	0.000	4.165	0.000	0.000	10.324	10.309	-38.344	OWSG MWD+IFR1+MS
3000.000	12.000	293.494	2986.882	10.544	0.000	10.677	0.000	4.287	0.000	0.000	10.681	10.661	-41.070	OWSG MWD+IFR1+MS
3100.000	12.000	293.494	3084.697	10.905	0.000	11.035	0.000	4.413	0.000	0.000	11.039	11.015	-42.527	OWSG MWD+IFR1+MS
3200.000	12.000	293.494	3182.512	11.269	0.000	11.394	0.000	4.542	0.000	0.000	11.398	11.370	-43.313	OWSG MWD+IFR1+MS
3300.000	12.000	293.494	3280.326	11.634	0.000	11.754	0.000	4.674	0.000	0.000	11.759	11.728	-43.705	OWSG MWD+IFR1+MS
3400.000	12.000	293.494	3378.141	12.001	0.000	12.115	0.000	4.809	0.000	0.000	12.120	12.086	-43.848	OWSG MWD+IFR1+MS
3500.000	12.000	293.494	3475.956	12.369	0.000	12.478	0.000	4.947	0.000	0.000	12.483	12.446	-43.822	OWSG MWD+IFR1+MS
3600.000	12.000	293.494	3573.771	12.738	0.000	12.841	0.000	5.089	0.000	0.000	12.847	12.807	-43.678	OWSG MWD+IFR1+MS
3700.000	12.000	293.494	3671.585	13.108	0.000	13.205	0.000	5.233	0.000	0.000	13.212	13.168	-43.445	OWSG MWD+IFR1+MS
3800.000	12.000	293.494	3769.400	13.479	0.000	13.570	0.000	5.380	0.000	0.000	13.578	13.531	-43.146	OWSG MWD+IFR1+MS
3900.000	10.000	293.494	3867.558	13.895	0.000	13.935	0.000	5.532	0.000	0.000	13.943	13.894	-43.178	OWSG MWD+IFR1+MS
3930.327	9.393	293.494	3897.452	14.017	0.000	14.046	0.000	5.581	0.000	0.000	14.053	14.003	-43.535	OWSG MWD+IFR1+MS
4000.000	9.393	293.494	3966.191	14.274	0.000	14.299	0.000	5.686	0.000	0.000	14.308	14.256	-43.130	

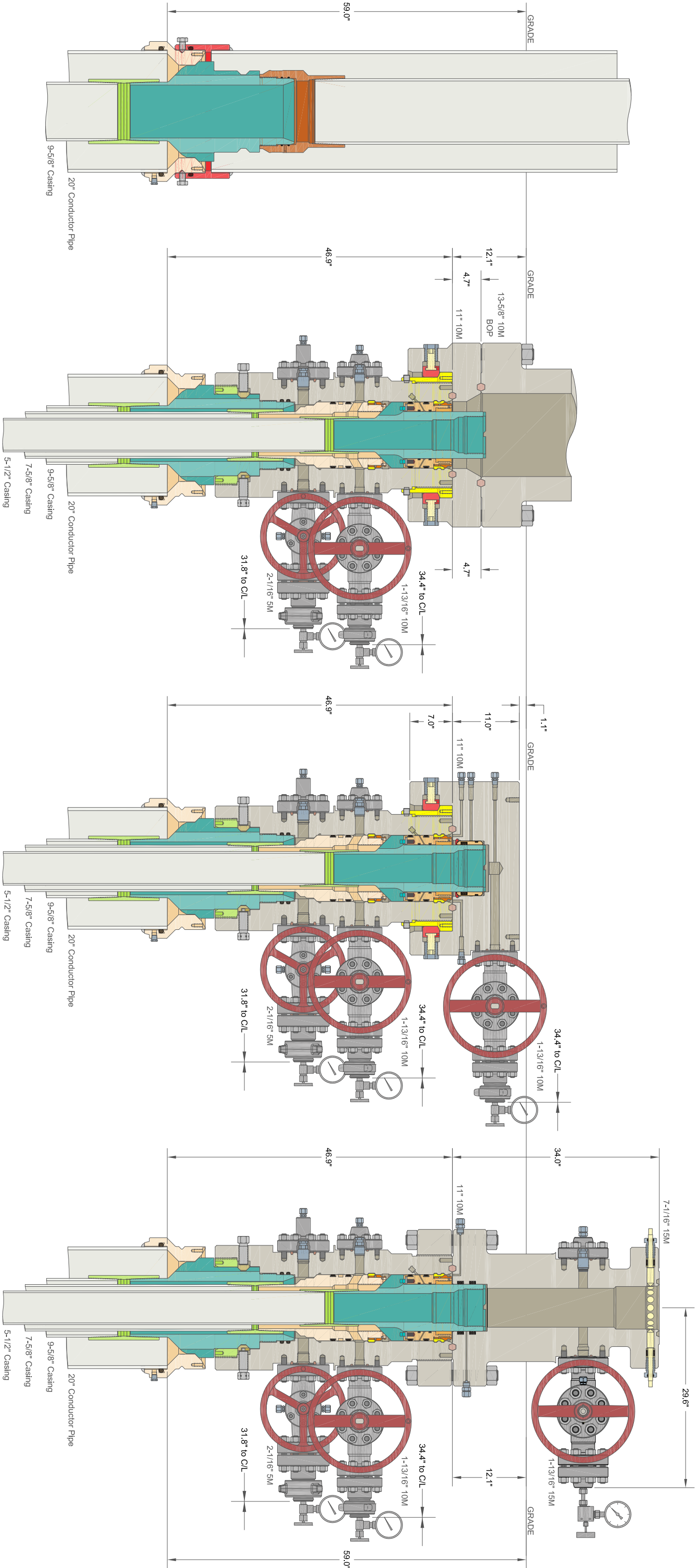
														OWSG MWD+IFR1+MS
4100.000	9.393	293.494	4064.850	14.644	0.000	14.664	0.000	5.838	0.000	0.000	14.673	14.620	-42.382	OWSG MWD+IFR1+MS
4200.000	9.393	293.494	4163.509	15.013	0.000	15.029	0.000	5.993	0.000	0.000	15.038	14.985	-41.636	OWSG MWD+IFR1+MS
4300.000	9.393	293.494	4262.168	15.383	0.000	15.394	0.000	6.150	0.000	0.000	15.404	15.349	-40.892	OWSG MWD+IFR1+MS
4400.000	9.393	293.494	4360.827	15.754	0.000	15.760	0.000	6.309	0.000	0.000	15.771	15.715	-40.149	OWSG MWD+IFR1+MS
4500.000	9.393	293.494	4459.486	16.124	0.000	16.125	0.000	6.471	0.000	0.000	16.137	16.080	-39.409	OWSG MWD+IFR1+MS
4600.000	9.393	293.494	4558.145	16.495	0.000	16.491	0.000	6.636	0.000	0.000	16.504	16.446	-38.671	OWSG MWD+IFR1+MS
4700.000	9.393	293.494	4656.804	16.866	0.000	16.857	0.000	6.803	0.000	0.000	16.871	16.812	-37.937	OWSG MWD+IFR1+MS
4800.000	9.393	293.494	4755.463	17.238	0.000	17.224	0.000	6.972	0.000	0.000	17.238	17.178	-37.205	OWSG MWD+IFR1+MS
4900.000	9.393	293.494	4854.122	17.609	0.000	17.591	0.000	7.144	0.000	0.000	17.606	17.544	-36.478	OWSG MWD+IFR1+MS
5000.000	9.393	293.494	4952.782	17.981	0.000	17.957	0.000	7.319	0.000	0.000	17.974	17.911	-35.755	OWSG MWD+IFR1+MS
5100.000	9.393	293.494	5051.441	18.353	0.000	18.324	0.000	7.496	0.000	0.000	18.342	18.278	-35.037	OWSG MWD+IFR1+MS
5200.000	9.393	293.494	5150.100	18.725	0.000	18.691	0.000	7.675	0.000	0.000	18.710	18.645	-34.323	OWSG MWD+IFR1+MS
5300.000	9.393	293.494	5248.759	19.098	0.000	19.059	0.000	7.857	0.000	0.000	19.078	19.012	-33.614	OWSG MWD+IFR1+MS
5400.000	9.393	293.494	5347.418	19.470	0.000	19.426	0.000	8.041	0.000	0.000	19.447	19.379	-32.912	OWSG MWD+IFR1+MS
5500.000	9.393	293.494	5446.077	19.843	0.000	19.794	0.000	8.228	0.000	0.000	19.816	19.747	-32.214	OWSG MWD+IFR1+MS
5600.000	9.393	293.494	5544.736	20.216	0.000	20.161	0.000	8.418	0.000	0.000	20.185	20.114	-31.523	OWSG MWD+IFR1+MS
5700.000	9.393	293.494	5643.395	20.589	0.000	20.529	0.000	8.610	0.000	0.000	20.554	20.482	-30.838	OWSG MWD+IFR1+MS
5800.000	9.393	293.494	5742.054	20.962	0.000	20.897	0.000	8.804	0.000	0.000	20.923	20.850	-30.160	OWSG MWD+IFR1+MS
5900.000	9.393	293.494	5840.713	21.335	0.000	21.265	0.000	9.001	0.000	0.000	21.292	21.218	-29.488	OWSG MWD+IFR1+MS
6000.000	9.393	293.494	5939.372	21.709	0.000	21.634	0.000	9.201	0.000	0.000	21.662	21.586	-28.824	OWSG MWD+IFR1+MS
6100.000	9.393	293.494	6038.031	22.082	0.000	22.002	0.000	9.403	0.000	0.000	22.031	21.954	-28.166	OWSG MWD+IFR1+MS
6200.000	9.393	293.494	6136.691	22.456	0.000	22.370	0.000	9.608	0.000	0.000	22.401	22.323	-27.516	OWSG MWD+IFR1+MS
6300.000	9.393	293.494	6235.350	22.830	0.000	22.739	0.000	9.815	0.000	0.000	22.771	22.691	-26.872	OWSG MWD+IFR1+MS
6400.000	9.393	293.494	6334.009	23.204	0.000	23.107	0.000	10.025	0.000	0.000	23.141	23.060	-26.237	OWSG MWD+IFR1+MS
6500.000	9.393	293.494	6432.668	23.577	0.000	23.476	0.000	10.237	0.000	0.000	23.511	23.428	-25.609	OWSG MWD+IFR1+MS
6600.000	9.393	293.494	6531.327	23.951	0.000	23.845	0.000	10.452	0.000	0.000	23.882	23.797	-24.988	OWSG MWD+IFR1+MS
6700.000	9.393	293.494	6629.986	24.326	0.000	24.213	0.000	10.669	0.000	0.000	24.252	24.166	-24.376	OWSG MWD+IFR1+MS
6800.000	9.393	293.494	6728.645	24.700	0.000	24.582	0.000	10.890	0.000	0.000	24.622	24.535	-23.771	OWSG MWD+IFR1+MS
6900.000	9.393	293.494	6827.304	25.074	0.000	24.951	0.000	11.112	0.000	0.000	24.993	24.904	-23.174	OWSG MWD+IFR1+MS
7000.000	9.393	293.494	6925.963	25.448	0.000	25.320	0.000	11.337	0.000	0.000	25.364	25.273	-22.584	OWSG MWD+IFR1+MS
7100.000	9.393	293.494	7024.622	25.823	0.000	25.689	0.000	11.565	0.000	0.000	25.735	25.642	-22.003	OWSG MWD+IFR1+MS
7200.000	9.393	293.494	7123.281	26.197	0.000	26.058	0.000	11.796	0.000	0.000	26.106	26.011	-21.429	

															OWSG MWD+IFR1+MS
10200.000	31.182	180.000	10093.657	32.252	-0.000	36.561	0.000	19.714	0.000	0.000	36.597	36.409	-25.866	OWSG MWD+IFR1+MS	
10300.000	41.182	180.000	10174.269	29.905	-0.000	36.807	0.000	19.942	0.000	0.000	36.845	36.605	-23.325	OWSG MWD+IFR1+MS	
10400.000	51.182	180.000	10243.417	27.239	-0.000	37.019	0.000	20.148	0.000	0.000	37.054	36.755	-19.967	OWSG MWD+IFR1+MS	
10500.000	61.182	180.000	10299.002	24.566	-0.000	37.193	0.000	20.337	0.000	0.000	37.221	36.860	-16.156	OWSG MWD+IFR1+MS	
10600.000	71.182	180.000	10339.333	22.309	-0.000	37.327	0.000	20.518	0.000	0.000	37.345	36.926	-12.040	OWSG MWD+IFR1+MS	
10700.000	81.182	180.000	10363.186	20.964	-0.000	37.418	0.000	20.698	0.000	0.000	37.427	36.961	-7.601	OWSG MWD+IFR1+MS	
10788.176	90.000	180.000	10369.958	20.860	0.000	37.462	0.000	20.860	0.000	0.000	37.464	36.976	-3.251	OWSG MWD+IFR1+MS	
10800.000	90.000	180.000	10369.958	20.882	0.000	37.466	0.000	20.882	0.000	0.000	37.467	36.978	-2.630	OWSG MWD+IFR1+MS	
10900.000	90.000	179.993	10369.958	21.086	0.000	37.504	-0.000	21.086	0.000	0.000	37.505	36.982	2.376	OWSG MWD+IFR1+MS	
11000.000	90.000	179.987	10369.958	21.316	0.000	37.554	-0.000	21.316	0.000	0.000	37.561	36.981	6.533	OWSG MWD+IFR1+MS	
11100.000	90.000	179.980	10369.958	21.573	0.000	37.615	-0.000	21.573	0.000	0.000	37.634	36.976	9.714	OWSG MWD+IFR1+MS	
11200.000	90.000	179.974	10369.958	21.854	0.000	37.689	-0.000	21.854	0.000	0.000	37.721	36.969	12.021	OWSG MWD+IFR1+MS	
11300.000	90.000	179.967	10369.958	22.160	0.000	37.773	-0.000	22.160	0.000	0.000	37.821	36.961	13.634	OWSG MWD+IFR1+MS	
11400.000	90.000	179.961	10369.958	22.489	0.000	37.870	-0.000	22.489	0.000	0.000	37.933	36.955	14.725	OWSG MWD+IFR1+MS	
11500.000	90.000	179.955	10369.958	22.841	0.000	37.978	-0.000	22.841	0.000	0.000	38.055	36.949	15.431	OWSG MWD+IFR1+MS	
11600.000	90.000	179.948	10369.958	23.213	0.000	38.097	-0.000	23.213	0.000	0.000	38.189	36.946	15.856	OWSG MWD+IFR1+MS	
11700.000	90.000	179.942	10369.958	23.606	0.000	38.227	-0.000	23.606	0.000	0.000	38.333	36.943	16.075	OWSG MWD+IFR1+MS	
11800.000	90.000	179.936	10369.958	24.018	0.000	38.369	-0.000	24.018	0.000	0.000	38.487	36.943	16.143	OWSG MWD+IFR1+MS	
11900.000	90.000	179.929	10369.958	24.448	0.000	38.522	-0.000	24.448	0.000	0.000	38.651	36.945	16.101	OWSG MWD+IFR1+MS	
12000.000	90.000	179.923	10369.958	24.896	0.000	38.685	-0.000	24.896	0.000	0.000	38.825	36.948	15.979	OWSG MWD+IFR1+MS	
12100.000	90.000	179.916	10369.959	25.360	0.000	38.859	-0.000	25.360	0.000	0.000	39.009	36.954	15.798	OWSG MWD+IFR1+MS	
12200.000	90.000	179.910	10369.959	25.839	0.000	39.044	-0.000	25.839	0.000	0.000	39.203	36.961	15.575	OWSG MWD+IFR1+MS	
12300.000	90.000	179.904	10369.959	26.334	0.000	39.239	-0.000	26.334	0.000	0.000	39.407	36.970	15.322	OWSG MWD+IFR1+MS	
12400.000	90.000	179.897	10369.959	26.842	0.000	39.445	-0.000	26.842	0.000	0.000	39.620	36.980	15.050	OWSG MWD+IFR1+MS	
12500.000	90.000	179.891	10369.959	27.363	0.000	39.661	-0.000	27.363	0.000	0.000	39.842	36.993	14.764	OWSG MWD+IFR1+MS	
12600.000	90.000	179.885	10369.959	27.896	0.000	39.886	-0.000	27.896	0.000	0.000	40.074	37.006	14.470	OWSG MWD+IFR1+MS	
12700.000	90.000	179.878	10369.959	28.441	0.000	40.122	-0.000	28.441	0.000	0.000	40.315	37.022	14.173	OWSG MWD+IFR1+MS	
12800.000	90.000	179.872	10369.960	28.997	0.000	40.367	-0.000	28.997	0.000	0.000	40.565	37.038	13.875	OWSG MWD+IFR1+MS	
12900.000	90.000	179.866	10369.960	29.564	0.000	40.621	-0.000	29.564	0.000	0.000	40.824	37.057	13.579	OWSG MWD+IFR1+MS	
13000.000	90.000	179.859	10369.960	30.140	0.000	40.885	-0.000	30.140	0.000	0.000	41.092	37.076	13.286	OWSG MWD+IFR1+MS	
13100.000	90.000	179.853	10369.960	30.725	0.000	41.158	-0.000	30.725	0.000	0.000	41.368	37.097	12.998	OWSG MWD+IFR1+MS	
13200.000	90.000	179.846	10369.960	31.320	0.000	41.440	-0.000	31.320	0.000	0.000	41.653	37.119	12.716		

															OWSG MWD+IFR1+MS
13300.000	90.000	179.840	10369.961	31.922	0.000	41.730	-0.000	31.922	0.000	0.000	41.947	37.143	12.440	OWSG MWD+IFR1+MS	
13400.000	90.000	179.834	10369.961	32.532	0.000	42.030	-0.000	32.532	0.000	0.000	42.248	37.168	12.171	OWSG MWD+IFR1+MS	
13500.000	90.000	179.827	10369.961	33.150	0.000	42.337	-0.000	33.150	0.000	0.000	42.558	37.194	11.909	OWSG MWD+IFR1+MS	
13600.000	90.000	179.821	10369.961	33.774	0.000	42.653	-0.000	33.774	0.000	0.000	42.876	37.222	11.654	OWSG MWD+IFR1+MS	
13700.000	90.000	179.815	10369.962	34.405	0.000	42.977	-0.000	34.405	0.000	0.000	43.201	37.250	11.407	OWSG MWD+IFR1+MS	
13800.000	90.000	179.808	10369.962	35.043	0.000	43.308	-0.000	35.043	0.000	0.000	43.534	37.280	11.167	OWSG MWD+IFR1+MS	
13900.000	90.000	179.802	10369.962	35.686	0.000	43.647	-0.000	35.686	0.000	0.000	43.874	37.311	10.935	OWSG MWD+IFR1+MS	
14000.000	90.000	179.795	10369.962	36.335	0.000	43.994	-0.000	36.335	0.000	0.000	44.222	37.343	10.709	OWSG MWD+IFR1+MS	
14100.000	90.000	179.789	10369.963	36.989	0.000	44.348	-0.000	36.989	0.000	0.000	44.577	37.376	10.491	OWSG MWD+IFR1+MS	
14200.000	90.000	179.783	10369.963	37.648	0.000	44.709	-0.000	37.648	0.000	0.000	44.939	37.411	10.279	OWSG MWD+IFR1+MS	
14300.000	90.000	179.776	10369.963	38.311	0.000	45.077	-0.000	38.311	0.000	0.000	45.307	37.446	10.074	OWSG MWD+IFR1+MS	
14400.000	90.000	179.770	10369.964	38.979	0.000	45.452	-0.000	38.980	0.000	0.000	45.683	37.483	9.876	OWSG MWD+IFR1+MS	
14500.000	90.000	179.764	10369.964	39.652	0.000	45.834	-0.000	39.652	0.000	0.000	46.064	37.521	9.684	OWSG MWD+IFR1+MS	
14600.000	90.000	179.757	10369.964	40.329	0.000	46.222	-0.000	40.329	0.000	0.000	46.453	37.559	9.498	OWSG MWD+IFR1+MS	
14700.000	90.000	179.751	10369.965	41.009	0.000	46.616	-0.000	41.009	0.000	0.000	46.847	37.599	9.317	OWSG MWD+IFR1+MS	
14800.000	90.000	179.745	10369.965	41.693	0.000	47.016	-0.000	41.693	0.000	0.000	47.247	37.640	9.142	OWSG MWD+IFR1+MS	
14900.000	90.000	179.738	10369.965	42.381	0.000	47.423	-0.000	42.381	0.000	0.000	47.653	37.682	8.973	OWSG MWD+IFR1+MS	
15000.000	90.000	179.732	10369.966	43.072	0.000	47.835	-0.000	43.072	0.000	0.000	48.065	37.725	8.809	OWSG MWD+IFR1+MS	
15100.000	90.000	179.725	10369.966	43.766	0.000	48.253	-0.000	43.766	0.000	0.000	48.483	37.769	8.650	OWSG MWD+IFR1+MS	
15200.000	90.000	179.719	10369.966	44.463	0.000	48.676	-0.000	44.463	0.000	0.000	48.906	37.814	8.495	OWSG MWD+IFR1+MS	
15300.000	90.000	179.713	10369.967	45.163	0.000	49.105	-0.000	45.163	0.000	0.000	49.334	37.860	8.345	OWSG MWD+IFR1+MS	
15400.000	90.000	179.706	10369.967	45.865	0.000	49.539	-0.000	45.865	0.000	0.000	49.768	37.907	8.200	OWSG MWD+IFR1+MS	
15500.000	90.000	179.700	10369.968	46.571	0.000	49.979	-0.000	46.571	0.000	0.000	50.206	37.955	8.059	OWSG MWD+IFR1+MS	
15600.000	90.000	179.694	10369.968	47.279	0.000	50.423	-0.000	47.279	0.000	0.000	50.650	38.004	7.922	OWSG MWD+IFR1+MS	
15700.000	90.000	179.687	10369.969	47.989	0.000	50.872	-0.000	47.989	0.000	0.000	51.098	38.054	7.789	OWSG MWD+IFR1+MS	
15800.000	90.000	179.681	10369.969	48.701	0.000	51.326	-0.000	48.701	0.000	0.000	51.551	38.105	7.660	OWSG MWD+IFR1+MS	
15900.000	90.000	179.674	10369.969	49.416	0.000	51.784	-0.000	49.416	0.000	0.000	52.009	38.157	7.535	OWSG MWD+IFR1+MS	
16000.000	90.000	179.668	10369.970	50.133	0.000	52.247	-0.000	50.133	0.000	0.000	52.471	38.210	7.413	OWSG MWD+IFR1+MS	
16100.000	90.000	179.662	10369.970	50.852	0.000	52.714	-0.000	50.852	0.000	0.000	52.937	38.264	7.294	OWSG MWD+IFR1+MS	
16200.000	90.000	179.655	10369.971	51.572	0.000	53.185	-0.000	51.572	0.000	0.000	53.408	38.318	7.179	OWSG MWD+IFR1+MS	
16300.000	90.000	179.649	10369.971	52.295	0.000	53.661	-0.000	52.295	0.000	0.000	53.883	38.374	7.066	OWSG MWD+IFR1+MS	
16400.000	90.000	179.643	10369.972	53.019	0.000	54.141	-0.000	53.019	0.000	0.000	54.362	38.431	6.957		

															OWSG MWD+IFR1+MS
19700.000	90.000	179.432	10369.993	77.585	0.000	71.664	-0.000	77.585	0.000	0.000	71.854	40.785	4.497	OWSG MWD+IFR1+MS	
19800.000	90.000	179.426	10369.994	78.343	0.000	72.233	-0.000	78.343	0.000	0.000	72.422	40.870	4.446	OWSG MWD+IFR1+MS	
19900.000	90.000	179.420	10369.995	79.101	0.000	72.804	-0.000	79.101	0.000	0.000	72.992	40.956	4.396	OWSG MWD+IFR1+MS	
20000.000	90.000	179.413	10369.996	79.860	0.000	73.376	-0.000	79.860	0.000	0.000	73.564	41.042	4.347	OWSG MWD+IFR1+MS	
20100.000	90.000	179.407	10369.996	80.619	0.000	73.950	-0.000	80.619	0.000	0.000	74.137	41.130	4.298	OWSG MWD+IFR1+MS	
20200.000	90.000	179.401	10369.997	81.379	0.000	74.526	-0.000	81.379	0.000	0.000	74.712	41.218	4.251	OWSG MWD+IFR1+MS	
20300.000	90.000	179.394	10369.998	82.140	0.000	75.103	-0.000	82.140	0.000	0.000	75.288	41.306	4.204	OWSG MWD+IFR1+MS	
20400.000	90.000	179.388	10369.999	82.900	0.000	75.681	-0.000	82.900	0.000	0.000	75.866	41.396	4.158	OWSG MWD+IFR1+MS	
20500.000	90.000	179.382	10370.000	83.662	0.000	76.261	-0.000	83.662	0.000	0.000	76.445	41.486	4.113	OWSG MWD+IFR1+MS	
20524.388	90.000	179.380	10370.000	83.847	0.000	76.403	-0.000	83.847	0.000	0.000	76.586	41.508	4.102	OWSG MWD+IFR1+MS	

Plan Targets		PLU 16 TWR 154H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
PLU 16 TWR FTP 4	10574.87	440197.06	669135.44	6827.00	CIRCLE
PLU 16 TWR BHL 4	20524.39	430161.08	669188.12	6827.00	CIRCLE



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CACTUS WELLHEAD LLC			ALL DIMENSIONS APPROXIMATE		
			XTO ENERGY INC		
			ICARUS PAD		
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead			DRAWN	DLE	18JAN21
With 1 1" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head			APPRV		
And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers			DRAWING NO.	HBE0000479	

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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 412864

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 412864
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmccclure	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	5/15/2025
dmccclure	Correct all past production for the well to the new pool	5/15/2025