

Well Name: POKER LAKE UNIT 16 TWR	Well Location: T24S / R31E / SEC 21 / NWNE / 32.208579 / -103.780537	County or Parish/State: EDDY / NM
Well Number: 107H	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: 3001547219	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2668427

Type of Submission: Notice of Intent Type of Action: Other

Date Sundry Submitted: 04/25/2022 Time Sundry Submitted: 11:02

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 & 946'FEL to 50'FSL & 440'FEL, 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_107H_Attachments_20220425110138.pdf

Received by OCD: 12/17/2024 9:47:07 AM

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Conditions of Approval

Additional

Sec_21_24S_34E_NMP_2668427_PLU_16_TWR_107H_Eddy_NMNM0506A__XTO_COAs_20220607152147.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 11:01 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: 08/12/2022

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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		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
☐ 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: NWNE / 550 FNL / 1950 FEL / TWSP: 24S / RANGE: 31E / SECTION: 21 / LAT: 32.208579 / LONG: -103.780537 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 990 FSL / 946 FEL / TWSP: 24S / RANGE: 31E / SECTION: 21 / LAT: 32.19872 / LONG: -103.777241 (TVD: 11717 feet, MD: 16091 feet)

PPP: NESE / 2310 FSL / 946 FEL / TWSP: 24S / RANGE: 31E / SECTION: 21 / LAT: 32.20194 / LONG: -103.777241 (TVD: 11717 feet, MD: 14771 feet)

PPP: NENE / 330 FNL / 946 FEL / TWSP: 24S / RANGE: 31E / SECTION: 21 / LAT: 32.209185 / LONG: -103.777291 (TVD: 11717 feet, MD: 12131 feet)

PPP: NENE / 330 FNL / 946 FEL / TWSP: 24S / RANGE: 31E / SECTION: 28 / LAT: 32.19483 / LONG: -103.777241 (TVD: 11717 feet, MD: 17411 feet)

BHL: SESE / 200 FSL / 946 FEL / TWSP: 24S / RANGE: 31E / SECTION: 28 / LAT: 32.181608 / LONG: -103.77724 (TVD: 11717 feet, MD: 22163 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
WELL NAME & NO.:	Poker Lake Unit 16 TWR 107H
LOCATION:	Sec 21-24S-31E-NMP
COUNTY:	Eddy County, New Mexico

Updated COAs per **Sundry 2668427**. 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 30-015-47219	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 107H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,513'

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
B	21	24 S	31 E		550	NORTH	1,950	EAST	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
P	28	24 S	31 E		50	SOUTH	440	EAST	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 SEC. 16 SEC. 15 SEC. 21 T24S R31E SEC. 22 SEC. 28 SEC. 27 SEC. 33 SEC. 34	SHL (NAD83 NME) Y = 440,054.8 X = 712,309.8 LAT. = 32.208579 °N LONG. = 103.780537 °W FTP (NAD83 NME) Y = 440,283.3 X = 713,818.8 LAT. = 32.209186 °N LONG. = 103.775655 °W CORNER COORDINATES (NAD83 NME) A - Y = 440,615.7 N , X = 714,257.0 E B - Y = 440,608.3 N , X = 712,938.3 E C - Y = 437,975.6 N , X = 714,270.8 E D - Y = 437,968.6 N , X = 712,953.3 E E - Y = 435,336.0 N , X = 714,291.7 E F - Y = 435,328.1 N , X = 712,971.9 E G - Y = 432,694.6 N , X = 714,308.9 E H - Y = 432,686.9 N , X = 712,989.1 E I - Y = 430,053.9 N , X = 714,327.6 E J - Y = 430,046.0 N , X = 713,007.1 E SHL (NAD27 NME) Y = 439,995.9 X = 671,125.8 LAT. = 32.208455 °N LONG. = 103.780054 °W FTP (NAD27 NME) Y = 440,224.4 X = 672,634.8 LAT. = 32.209062 °N LONG. = 103.775171 °W CORNER COORDINATES (NAD27 NME) A - Y = 440,556.9 N , X = 673,073.0 E B - Y = 440,549.4 N , X = 671,754.3 E C - Y = 437,916.8 N , X = 673,086.7 E D - Y = 437,909.8 N , X = 671,769.2 E E - Y = 435,277.3 N , X = 673,107.5 E F - Y = 435,269.4 N , X = 671,787.7 E G - Y = 432,636.0 N , X = 673,124.6 E H - Y = 432,628.2 N , X = 671,804.8 E I - Y = 429,995.3 N , X = 673,143.2 E J - Y = 429,987.4 N , X = 671,822.7 E	LTP (NAD83 NME) Y = 430,151.3 X = 713,886.9 LAT. = 32.181334 °N LONG. = 103.775604 °W BHL (NAD83 NME) Y = 430,101.3 X = 713,887.3 LAT. = 32.181197 °N LONG. = 103.775604 °W LTP (NAD27 NME) Y = 430,092.7 X = 672,702.5 LAT. = 32.181210 °N LONG. = 103.775122 °W BHL (NAD27 NME) Y = 430,042.7 X = 672,702.9 LAT. = 32.181073 °N LONG. = 103.775122 °W
	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 _____	
	AW 2018010237	

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

XTO Energy Inc.
PLU 16 Twin Wells Ranch 107H
Projected TD: 20635' MD / 10408' TVD
SHL: 550' FNL & 1950' FEL , Section 21, T24S, R31E
BHL: 50' FSL & 440' FEL , 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	670'	Water
Top of Salt	960'	Water
Base of Salt	4176'	Water
Delaware	4412'	Water
Brushy Canyon	6525'	Water/Oil/Gas
Bone Spring	8245'	Water
1st Bone Spring Ss	9274'	Water/Oil/Gas
2nd Bone Spring Ss	10012'	Water/Oil/Gas
Target/Land Curve	10408'	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 @ 770' (190' 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 9390' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 20635 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9090 feet).

3. Casing Design

Hole Size	MD	TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 770'	770'	9.625	40	J-55	BTC	New	1.48	7.38	20.45
8.75	0' – 4000'	3942'	7.625	29.7	RY P-110	Flush Joint	New	3.03	2.65	2.00
8.75	4000' – 9390'	9237'	7.625	29.7	HC L-80	Flush Joint	New	2.20	2.13	2.54
6.75	0' – 9290'	9137'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.30	2.24
6.75	9290' - 20635'	10408'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.05	2.24

· 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 +/- 770

Lead: 150 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 +/- 9390

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

TOC: Brushy Canyon @ 6525

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 (6525') 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 +/- 20635

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9090 feet

Tail: 760 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9997 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 3122 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' - 770'	12.25		FW/Native	8.7-9.2	35-40	NC
770' - 9390'	8.75		FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
9390' - 20635'	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. 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 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 5412 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 107H

Measured Depth:	20634.75 ft	Site:	PLU 16 TWR D
TVD RKB:	10408.00 ft	Slot:	1
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	439990.43 ft		
Easting:	671334.14 ft		
RKB:	3543.00 ft		
Ground Level:	3513.00 ft		
North Reference:	Grid		
Convergence Angle:	0.30 Deg		

Plan Sections									
PLU 16 TWR 107H									
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	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	
2181.42	13.63	69.19	2175.01	28.66	75.40	2.00	0.00	2.00	
7480.60	13.63	69.19	7324.99	472.34	1242.52	0.00	0.00	0.00	
8162.02	0.00	0.00	8000.00	501.00	1317.92	-2.00	0.00	2.00	
9997.01	0.00	0.00	9835.00	501.00	1317.92	0.00	0.00	0.00	
10897.02	90.00	180.00	10407.96	-71.96	1317.92	10.00	0.00	10.00	
20634.75	90.00	179.32	10408.00	-9809.47	1375.59	-0.00	-0.01	0.01	PLU 16 TWR BHL 6

Position Uncertainty														
PLU 16 TWR 107H														
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	2.000	69.186	1599.980	5.727	0.000	5.730	0.000	2.938	0.000	0.000	5.730	5.729	-8.827	OWSG MWD+IFR1+MS
1700.000	4.000	69.186	1699.838	6.066	0.000	6.077	0.000	3.013	0.000	0.000	6.079	6.077	-11.598	OWSG MWD+IFR1+MS
1800.000	6.000	69.186	1799.452	6.399	0.000	6.425	0.000	3.089	0.000	0.000	6.428	6.424	-10.146	OWSG MWD+IFR1+MS
1900.000	8.000	69.186	1898.702	6.726	0.000	6.773	0.000	3.167	0.000	0.000	6.779	6.773	-7.758	OWSG MWD+IFR1+MS
2000.000	10.000	69.186	1997.465	7.047	0.000	7.123	0.000	3.247	0.000	0.000	7.130	7.122	-4.431	OWSG MWD+IFR1+MS
2100.000	12.000	69.186	2095.623	7.363	0.000	7.473	0.000	3.330	0.000	0.000	7.481	7.472	0.156	OWSG MWD+IFR1+MS
2181.417	13.628	69.186	2175.010	7.615	0.000	7.760	0.000	3.400	0.000	0.000	7.768	7.758	3.891	OWSG MWD+IFR1+MS
2200.000	13.628	69.186	2193.070	7.682	0.000	7.825	0.000	3.413	0.000	0.000	7.835	7.823	2.581	OWSG MWD+IFR1+MS
2300.000	13.628	69.186	2290.254	8.040	0.000	8.180	0.000	3.517	0.000	0.000	8.186	8.175	19.821	OWSG MWD+IFR1+MS
2400.000	13.628	69.186	2387.439	8.402	0.000	8.537	0.000	3.624	0.000	0.000	8.542	8.528	32.238	OWSG MWD+IFR1+MS
2500.000	13.628	69.186	2484.623	8.767	0.000	8.896	0.000	3.736	0.000	0.000	8.901	8.883	38.671	OWSG MWD+IFR1+MS
2600.000	13.628	69.186	2581.808	9.135	0.000	9.258	0.000	3.853	0.000	0.000	9.262	9.239	42.006	OWSG MWD+IFR1+MS
2700.000	13.628	69.186	2678.992	9.504	0.000	9.621	0.000	3.973	0.000	0.000	9.626	9.598	43.830	OWSG MWD+IFR1+MS
2800.000	13.628	69.186	2776.177	9.876	0.000	9.986	0.000	4.097	0.000	0.000	9.991	9.959	44.847	OWSG MWD+IFR1+MS
2900.000	13.628	69.186	2873.361	10.249	0.000	10.352	0.000	4.224	0.000	0.000	10.358	10.322	45.393	OWSG MWD+IFR1+MS
3000.000	13.628	69.186	2970.546	10.625	0.000	10.719	0.000	4.355	0.000	0.000	10.726	10.686	45.641	OWSG MWD+IFR1+MS
3100.000	13.628	69.186	3067.730	11.001	0.000	11.088	0.000	4.489	0.000	0.000	11.095	11.051	45.691	OWSG MWD+IFR1+MS
3200.000	13.628	69.186	3164.915	11.379	0.000	11.457	0.000	4.627	0.000	0.000	11.465	11.418	45.601	OWSG MWD+IFR1+MS
3300.000	13.628	69.186	3262.099	11.758	0.000	11.828	0.000	4.767	0.000	0.000	11.836	11.786	45.411	OWSG MWD+IFR1+MS
3400.000	13.628	69.186	3359.283	12.138	0.000	12.200	0.000	4.911	0.000	0.000	12.208	12.155	45.144	OWSG MWD+IFR1+MS
3500.000	13.628	69.186	3456.468	12.519	0.000	12.572	0.000	5.057	0.000	0.000	12.581	12.525	44.819	OWSG MWD+IFR1+MS
3600.000	13.628	69.186	3553.652	12.901	0.000	12.945	0.000	5.206	0.000	0.000	12.955	12.896	44.448	OWSG MWD+IFR1+MS
3700.000	13.628	69.186	3650.837	13.284	0.000	13.318	0.000	5.358	0.000	0.000	13.329	13.267	44.040	OWSG MWD+IFR1+MS
3800.000	13.628	69.186	3748.021	13.667	0.000	13.692	0.000	5.513	0.000	0.000	13.704	13.640	43.602	OWSG MWD+IFR1+MS
3900.000	13.628	69.186	3845.206	14.051	0.000	14.067	0.000	5.670	0.000	0.000	14.080	14.013	43.139	OWSG MWD+IFR1+MS
4000.000	13.628	69.186	3942.390	14.436	0.000	14.442	0.000	5.830	0.000	0.000	14.456	14.387	42.655	OWSG MWD+IFR1+MS
4100.000	13.628	69.186	4039.575	14.821	0.000	14.818	0.000	5.992	0.000	0.000	14.833	14.761	42.154	

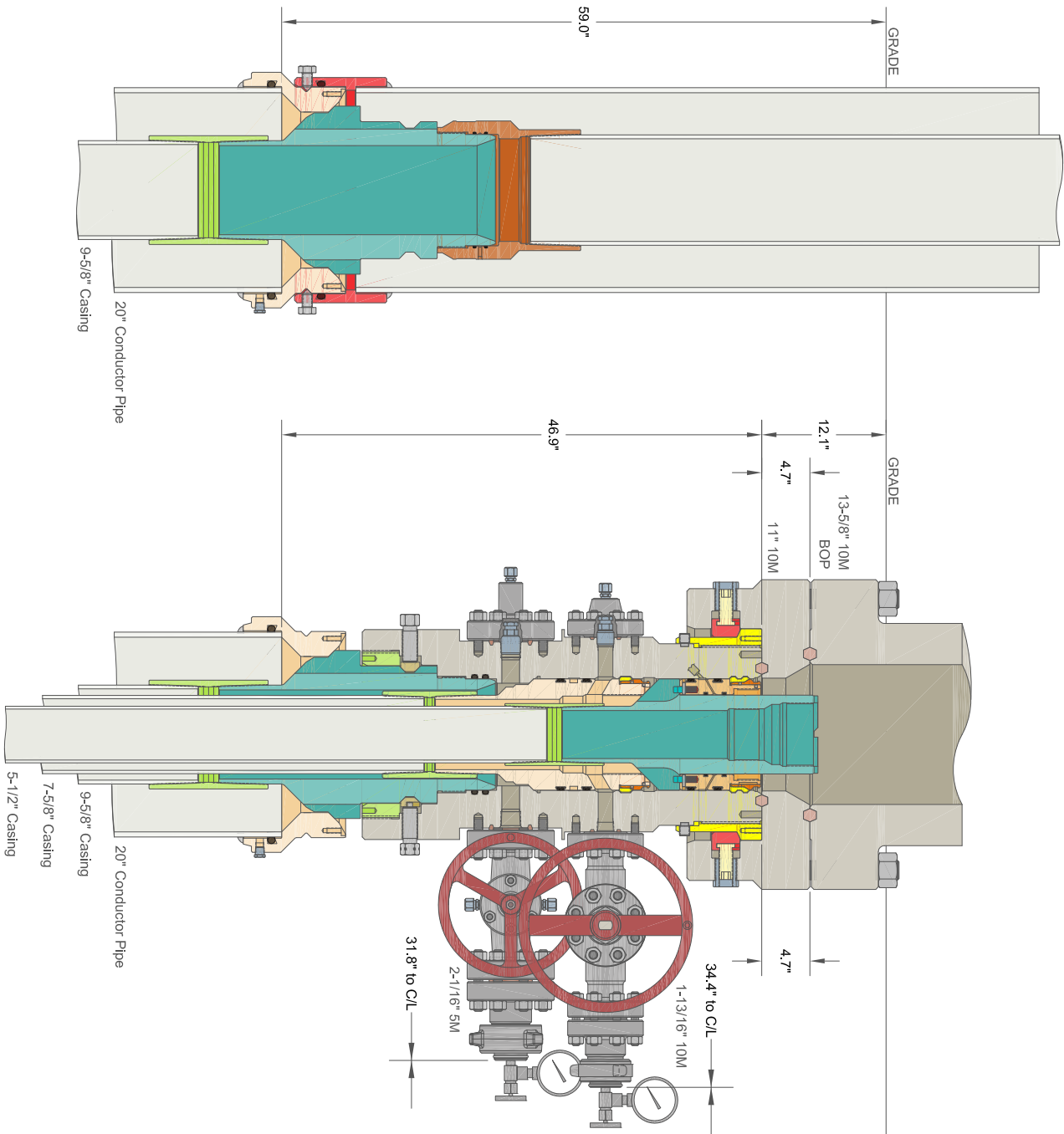
															OWSG MWD+IFR1+MS
10300.000	30.299	180.000	10124.060	32.893	-0.000	37.146	0.000	20.196	0.000	0.000	37.230	36.979	35.310	OWSG MWD+IFR1+MS	
10400.000	40.299	180.000	10205.572	30.532	-0.000	37.385	0.000	20.436	0.000	0.000	37.470	37.171	32.294	OWSG MWD+IFR1+MS	
10500.000	50.299	180.000	10275.824	27.852	-0.000	37.590	0.000	20.661	0.000	0.000	37.669	37.321	28.502	OWSG MWD+IFR1+MS	
10600.000	60.299	180.000	10332.682	25.169	-0.000	37.758	0.000	20.874	0.000	0.000	37.823	37.430	24.103	OWSG MWD+IFR1+MS	
10700.000	70.299	180.000	10374.418	22.909	-0.000	37.885	0.000	21.085	0.000	0.000	37.930	37.504	19.083	OWSG MWD+IFR1+MS	
10800.000	80.299	180.000	10399.764	21.564	-0.000	37.970	0.000	21.297	0.000	0.000	37.993	37.550	13.258	OWSG MWD+IFR1+MS	
10897.015	90.000	180.000	10407.958	21.508	0.000	38.011	0.000	21.508	0.000	0.000	38.017	37.577	6.432	OWSG MWD+IFR1+MS	
10900.000	90.000	180.000	10407.958	21.515	0.000	38.012	0.000	21.515	0.000	0.000	38.017	37.578	6.209	OWSG MWD+IFR1+MS	
11000.000	90.000	179.993	10407.958	21.749	0.000	38.040	-0.000	21.749	0.000	0.000	38.040	37.586	-1.682	OWSG MWD+IFR1+MS	
11100.000	90.000	179.986	10407.958	22.009	0.000	38.079	-0.000	22.009	0.000	0.000	38.090	37.580	-8.414	OWSG MWD+IFR1+MS	
11200.000	90.000	179.979	10407.958	22.293	0.000	38.130	-0.000	22.293	0.000	0.000	38.162	37.564	-13.353	OWSG MWD+IFR1+MS	
11300.000	90.000	179.972	10407.958	22.601	0.000	38.193	-0.000	22.601	0.000	0.000	38.250	37.544	-16.708	OWSG MWD+IFR1+MS	
11400.000	90.000	179.965	10407.958	22.932	0.000	38.267	-0.000	22.932	0.000	0.000	38.353	37.522	-18.909	OWSG MWD+IFR1+MS	
11500.000	90.000	179.958	10407.958	23.285	0.000	38.353	-0.000	23.285	0.000	0.000	38.467	37.501	-20.319	OWSG MWD+IFR1+MS	
11600.000	90.000	179.951	10407.958	23.658	0.000	38.450	-0.000	23.658	0.000	0.000	38.592	37.482	-21.191	OWSG MWD+IFR1+MS	
11700.000	90.000	179.944	10407.958	24.051	0.000	38.558	-0.000	24.051	0.000	0.000	38.727	37.464	-21.694	OWSG MWD+IFR1+MS	
11800.000	90.000	179.937	10407.958	24.463	0.000	38.678	-0.000	24.463	0.000	0.000	38.872	37.449	-21.938	OWSG MWD+IFR1+MS	
11900.000	90.000	179.930	10407.958	24.893	0.000	38.808	-0.000	24.893	0.000	0.000	39.026	37.436	-21.999	OWSG MWD+IFR1+MS	
12000.000	90.000	179.923	10407.958	25.340	0.000	38.950	-0.000	25.340	0.000	0.000	39.190	37.426	-21.928	OWSG MWD+IFR1+MS	
12100.000	90.000	179.916	10407.958	25.803	0.000	39.103	-0.000	25.803	0.000	0.000	39.362	37.418	-21.763	OWSG MWD+IFR1+MS	
12200.000	90.000	179.909	10407.959	26.282	0.000	39.266	-0.000	26.282	0.000	0.000	39.544	37.413	-21.530	OWSG MWD+IFR1+MS	
12300.000	90.000	179.902	10407.959	26.775	0.000	39.440	-0.000	26.775	0.000	0.000	39.735	37.410	-21.248	OWSG MWD+IFR1+MS	
12400.000	90.000	179.895	10407.959	27.281	0.000	39.625	-0.000	27.281	0.000	0.000	39.935	37.410	-20.931	OWSG MWD+IFR1+MS	
12500.000	90.000	179.888	10407.959	27.801	0.000	39.820	-0.000	27.801	0.000	0.000	40.144	37.411	-20.590	OWSG MWD+IFR1+MS	
12600.000	90.000	179.881	10407.959	28.332	0.000	40.025	-0.000	28.332	0.000	0.000	40.362	37.415	-20.233	OWSG MWD+IFR1+MS	
12700.000	90.000	179.874	10407.959	28.875	0.000	40.240	-0.000	28.875	0.000	0.000	40.589	37.421	-19.866	OWSG MWD+IFR1+MS	
12800.000	90.000	179.867	10407.959	29.430	0.000	40.465	-0.000	29.430	0.000	0.000	40.824	37.429	-19.494	OWSG MWD+IFR1+MS	
12900.000	90.000	179.860	10407.960	29.994	0.000	40.700	-0.000	29.994	0.000	0.000	41.068	37.439	-19.120	OWSG MWD+IFR1+MS	
13000.000	90.000	179.853	10407.960	30.568	0.000	40.944	-0.000	30.568	0.000	0.000	41.321	37.450	-18.747	OWSG MWD+IFR1+MS	
13100.000	90.000	179.846	10407.960	31.151	0.000	41.198	-0.000	31.151	0.000	0.000	41.582	37.463	-18.378	OWSG MWD+IFR1+MS	
13200.000	90.000	179.839	10407.960	31.743	0.000	41.461	-0.000	31.743	0.000	0.000	41.852	37.479	-18.014	OWSG MWD+IFR1+MS	
13300.000	90.000	179.833	10407.960	32.344	0.000	41.732	-0.000	32.344	0.000	0.000	42.130	37.495	-17.656		

															OWSG MWD+IFR1+MS
13400.000	90.000	179.826	10407.961	32.952	0.000	42.013	-0.000	32.952	0.000	0.000	42.416	37.514	-17.305	OWSG MWD+IFR1+MS	
13500.000	90.000	179.819	10407.961	33.567	0.000	42.303	-0.000	33.567	0.000	0.000	42.710	37.533	-16.962	OWSG MWD+IFR1+MS	
13600.000	90.000	179.812	10407.961	34.189	0.000	42.601	-0.000	34.189	0.000	0.000	43.012	37.555	-16.627	OWSG MWD+IFR1+MS	
13700.000	90.000	179.805	10407.961	34.818	0.000	42.907	-0.000	34.818	0.000	0.000	43.322	37.578	-16.301	OWSG MWD+IFR1+MS	
13800.000	90.000	179.798	10407.962	35.453	0.000	43.221	-0.000	35.453	0.000	0.000	43.639	37.602	-15.983	OWSG MWD+IFR1+MS	
13900.000	90.000	179.791	10407.962	36.094	0.000	43.544	-0.000	36.094	0.000	0.000	43.964	37.628	-15.674	OWSG MWD+IFR1+MS	
14000.000	90.000	179.784	10407.962	36.741	0.000	43.874	-0.000	36.741	0.000	0.000	44.296	37.655	-15.374	OWSG MWD+IFR1+MS	
14100.000	90.000	179.777	10407.962	37.392	0.000	44.212	-0.000	37.392	0.000	0.000	44.635	37.683	-15.082	OWSG MWD+IFR1+MS	
14200.000	90.000	179.770	10407.963	38.049	0.000	44.557	-0.000	38.049	0.000	0.000	44.982	37.713	-14.799	OWSG MWD+IFR1+MS	
14300.000	90.000	179.763	10407.963	38.711	0.000	44.909	-0.000	38.711	0.000	0.000	45.335	37.744	-14.524	OWSG MWD+IFR1+MS	
14400.000	90.000	179.756	10407.963	39.377	0.000	45.269	-0.000	39.377	0.000	0.000	45.695	37.776	-14.257	OWSG MWD+IFR1+MS	
14500.000	90.000	179.749	10407.964	40.047	0.000	45.636	-0.000	40.047	0.000	0.000	46.062	37.810	-13.999	OWSG MWD+IFR1+MS	
14600.000	90.000	179.742	10407.964	40.722	0.000	46.009	-0.000	40.722	0.000	0.000	46.435	37.844	-13.748	OWSG MWD+IFR1+MS	
14700.000	90.000	179.735	10407.964	41.400	0.000	46.389	-0.000	41.400	0.000	0.000	46.815	37.880	-13.504	OWSG MWD+IFR1+MS	
14800.000	90.000	179.728	10407.965	42.082	0.000	46.775	-0.000	42.082	0.000	0.000	47.201	37.917	-13.268	OWSG MWD+IFR1+MS	
14900.000	90.000	179.721	10407.965	42.768	0.000	47.168	-0.000	42.768	0.000	0.000	47.593	37.956	-13.040	OWSG MWD+IFR1+MS	
15000.000	90.000	179.714	10407.965	43.457	0.000	47.567	-0.000	43.457	0.000	0.000	47.990	37.995	-12.818	OWSG MWD+IFR1+MS	
15100.000	90.000	179.707	10407.966	44.149	0.000	47.972	-0.000	44.149	0.000	0.000	48.394	38.036	-12.603	OWSG MWD+IFR1+MS	
15200.000	90.000	179.700	10407.966	44.844	0.000	48.382	-0.000	44.844	0.000	0.000	48.803	38.077	-12.394	OWSG MWD+IFR1+MS	
15300.000	90.000	179.693	10407.966	45.543	0.000	48.799	-0.000	45.543	0.000	0.000	49.218	38.120	-12.191	OWSG MWD+IFR1+MS	
15400.000	90.000	179.686	10407.967	46.243	0.000	49.221	-0.000	46.243	0.000	0.000	49.638	38.164	-11.995	OWSG MWD+IFR1+MS	
15500.000	90.000	179.679	10407.967	46.947	0.000	49.648	-0.000	46.947	0.000	0.000	50.064	38.209	-11.804	OWSG MWD+IFR1+MS	
15600.000	90.000	179.672	10407.968	47.653	0.000	50.080	-0.000	47.653	0.000	0.000	50.494	38.255	-11.619	OWSG MWD+IFR1+MS	
15700.000	90.000	179.665	10407.968	48.362	0.000	50.518	-0.000	48.362	0.000	0.000	50.930	38.302	-11.439	OWSG MWD+IFR1+MS	
15800.000	90.000	179.658	10407.968	49.072	0.000	50.961	-0.000	49.073	0.000	0.000	51.371	38.350	-11.264	OWSG MWD+IFR1+MS	
15900.000	90.000	179.651	10407.969	49.786	0.000	51.408	-0.000	49.786	0.000	0.000	51.816	38.399	-11.095	OWSG MWD+IFR1+MS	
16000.000	90.000	179.644	10407.969	50.501	0.000	51.860	-0.000	50.501	0.000	0.000	52.266	38.449	-10.930	OWSG MWD+IFR1+MS	
16100.000	90.000	179.637	10407.970	51.218	0.000	52.317	-0.000	51.218	0.000	0.000	52.720	38.500	-10.770	OWSG MWD+IFR1+MS	
16200.000	90.000	179.630	10407.970	51.937	0.000	52.779	-0.000	51.937	0.000	0.000	53.179	38.552	-10.614	OWSG MWD+IFR1+MS	
16300.000	90.000	179.623	10407.971	52.658	0.000	53.244	-0.000	52.658	0.000	0.000	53.642	38.605	-10.463	OWSG MWD+IFR1+MS	
16400.000	90.000	179.616	10407.971	53.381	0.000	53.714	-0.000	53.381	0.000	0.000	54.110	38.659	-10.316	OWSG MWD+IFR1+MS	
16500.000	90.000	179.610	10407.972	54.106	0.000	54.189	-0.000	54.106	0.000	0.000	54.581	38.714	-10.173		

															OWSG MWD+IFR1+MS
16600.000	90.000	179.603	10407.972	54.832	0.000	54.667	-0.000	54.832	0.000	0.000	55.057	38.770	-10.033	OWSG MWD+IFR1+MS	
16700.000	90.000	179.596	10407.973	55.560	0.000	55.149	-0.000	55.560	0.000	0.000	55.536	38.827	-9.898	OWSG MWD+IFR1+MS	
16800.000	90.000	179.589	10407.973	56.289	0.000	55.635	-0.000	56.289	0.000	0.000	56.020	38.885	-9.766	OWSG MWD+IFR1+MS	
16900.000	90.000	179.582	10407.974	57.020	0.000	56.125	-0.000	57.020	0.000	0.000	56.507	38.944	-9.638	OWSG MWD+IFR1+MS	
17000.000	90.000	179.575	10407.974	57.752	0.000	56.618	-0.000	57.752	0.000	0.000	56.997	39.004	-9.513	OWSG MWD+IFR1+MS	
17100.000	90.000	179.568	10407.975	58.486	0.000	57.115	-0.000	58.486	0.000	0.000	57.491	39.065	-9.391	OWSG MWD+IFR1+MS	
17200.000	90.000	179.561	10407.975	59.221	0.000	57.615	-0.000	59.221	0.000	0.000	57.989	39.127	-9.272	OWSG MWD+IFR1+MS	
17300.000	90.000	179.554	10407.976	59.957	0.000	58.119	-0.000	59.957	0.000	0.000	58.490	39.189	-9.156	OWSG MWD+IFR1+MS	
17400.000	90.000	179.547	10407.977	60.694	0.000	58.626	-0.000	60.694	0.000	0.000	58.994	39.253	-9.044	OWSG MWD+IFR1+MS	
17500.000	90.000	179.540	10407.977	61.433	0.000	59.136	-0.000	61.433	0.000	0.000	59.501	39.317	-8.934	OWSG MWD+IFR1+MS	
17600.000	90.000	179.533	10407.978	62.173	0.000	59.650	-0.000	62.173	0.000	0.000	60.012	39.383	-8.827	OWSG MWD+IFR1+MS	
17700.000	90.000	179.526	10407.978	62.914	0.000	60.166	-0.000	62.914	0.000	0.000	60.525	39.449	-8.722	OWSG MWD+IFR1+MS	
17800.000	90.000	179.519	10407.979	63.655	0.000	60.685	-0.000	63.655	0.000	0.000	61.042	39.516	-8.620	OWSG MWD+IFR1+MS	
17900.000	90.000	179.512	10407.980	64.398	0.000	61.207	-0.000	64.398	0.000	0.000	61.561	39.584	-8.521	OWSG MWD+IFR1+MS	
18000.000	90.000	179.505	10407.980	65.142	0.000	61.732	-0.000	65.142	0.000	0.000	62.083	39.653	-8.423	OWSG MWD+IFR1+MS	
18100.000	90.000	179.498	10407.981	65.887	0.000	62.260	-0.000	65.887	0.000	0.000	62.608	39.722	-8.328	OWSG MWD+IFR1+MS	
18200.000	90.000	179.491	10407.982	66.633	0.000	62.791	-0.000	66.633	0.000	0.000	63.135	39.793	-8.236	OWSG MWD+IFR1+MS	
18300.000	90.000	179.484	10407.982	67.379	0.000	63.323	-0.000	67.379	0.000	0.000	63.666	39.864	-8.145	OWSG MWD+IFR1+MS	
18400.000	90.000	179.477	10407.983	68.127	0.000	63.859	-0.000	68.127	0.000	0.000	64.198	39.937	-8.057	OWSG MWD+IFR1+MS	
18500.000	90.000	179.470	10407.984	68.875	0.000	64.397	-0.000	68.875	0.000	0.000	64.733	40.010	-7.971	OWSG MWD+IFR1+MS	
18600.000	90.000	179.463	10407.984	69.624	0.000	64.937	-0.000	69.624	0.000	0.000	65.271	40.084	-7.886	OWSG MWD+IFR1+MS	
18700.000	90.000	179.456	10407.985	70.374	0.000	65.480	-0.000	70.374	0.000	0.000	65.811	40.158	-7.804	OWSG MWD+IFR1+MS	
18800.000	90.000	179.449	10407.986	71.125	0.000	66.025	-0.000	71.125	0.000	0.000	66.353	40.234	-7.723	OWSG MWD+IFR1+MS	
18900.000	90.000	179.442	10407.986	71.876	0.000	66.573	-0.000	71.876	0.000	0.000	66.898	40.311	-7.644	OWSG MWD+IFR1+MS	
19000.000	90.000	179.435	10407.987	72.628	0.000	67.122	-0.000	72.628	0.000	0.000	67.444	40.388	-7.567	OWSG MWD+IFR1+MS	
19100.000	90.000	179.428	10407.988	73.381	0.000	67.674	-0.000	73.381	0.000	0.000	67.993	40.466	-7.492	OWSG MWD+IFR1+MS	
19200.000	90.000	179.421	10407.988	74.134	0.000	68.227	-0.000	74.134	0.000	0.000	68.544	40.545	-7.418	OWSG MWD+IFR1+MS	
19300.000	90.000	179.414	10407.989	74.888	0.000	68.783	-0.000	74.888	0.000	0.000	69.097	40.624	-7.346	OWSG MWD+IFR1+MS	
19400.000	90.000	179.407	10407.990	75.643	0.000	69.341	-0.000	75.643	0.000	0.000	69.652	40.705	-7.275	OWSG MWD+IFR1+MS	
19500.000	90.000	179.400	10407.991	76.398	0.000	69.900	-0.000	76.398	0.000	0.000	70.209	40.786	-7.206	OWSG MWD+IFR1+MS	
19600.000	90.000	179.393	10407.992	77.154	0.000	70.462	-0.000	77.154	0.000	0.000	70.768	40.868	-7.138	OWSG MWD+IFR1+MS	
19700.000	90.000	179.386	10407.992	77.911	0.000	71.025	-0.000	77.911	0.000	0.000	71.328	40.951	-7.072		

														OWSG MWD+IFR1+MS
19800.000	90.000	179.380	10407.993	78.668	0.000	71.590	-0.000	78.668	0.000	0.000	71.891	41.034	-7.007	OWSG MWD+IFR1+MS
19900.000	90.000	179.373	10407.994	79.425	0.000	72.157	-0.000	79.425	0.000	0.000	72.455	41.119	-6.943	OWSG MWD+IFR1+MS
20000.000	90.000	179.366	10407.995	80.183	0.000	72.726	-0.000	80.183	0.000	0.000	73.021	41.204	-6.881	OWSG MWD+IFR1+MS
20100.000	90.000	179.359	10407.995	80.942	0.000	73.296	-0.000	80.942	0.000	0.000	73.589	41.290	-6.820	OWSG MWD+IFR1+MS
20200.000	90.000	179.352	10407.996	81.701	0.000	73.868	-0.000	81.701	0.000	0.000	74.158	41.376	-6.760	OWSG MWD+IFR1+MS
20300.000	90.000	179.345	10407.997	82.461	0.000	74.441	-0.000	82.461	0.000	0.000	74.729	41.463	-6.702	OWSG MWD+IFR1+MS
20400.000	90.000	179.338	10407.998	83.221	0.000	75.017	-0.000	83.221	0.000	0.000	75.301	41.551	-6.644	OWSG MWD+IFR1+MS
20500.000	90.000	179.331	10407.999	83.981	0.000	75.593	-0.000	83.981	0.000	0.000	75.876	41.640	-6.588	OWSG MWD+IFR1+MS
20600.000	90.000	179.324	10408.000	84.742	0.000	76.171	-0.000	84.742	0.000	0.000	76.451	41.730	-6.532	OWSG MWD+IFR1+MS
20634.755	90.000	179.321	10408.000	85.007	0.000	76.372	-0.000	85.007	0.000	0.000	76.651	41.761	-6.513	OWSG MWD+IFR1+MS

Plan Targets		PLU 16 TWR 107H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
PLU 16 TWR FTP 6	10677.01	440218.41	672652.06	6865.00	CIRCLE
PLU 16 TWR BHL 6	20634.75	430180.96	672709.73	6865.00	CIRCLE



CACTUS WELLHEAD LLC 20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers	XTO ENERGY INC ICARUS PAD		
	DRAWN	DLE	18JAN21
	APPRV		
	DRAWING NO. HBE0000479		

Released to Imaging:

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

General Information
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<https://www.emnrd.nm.gov/oed/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 412860

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 412860
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	5/15/2025