

Well Name: POKER LAKE UNIT 30 BS	Well Location: T25S / R31E / SEC 30 / SWNE / 32.101845 / -103.815813	County or Parish/State: EDDY / NM
Well Number: 309H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC061634B	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2830597

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/07/2025

Time Sundry Submitted: 04:16

Date proposed operation will begin: 01/22/2025

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, LTP, BHL, Proposed total Depth, Pool. There is a dedicated acreage change. There is no new surface disturbance. The API number for this well is 30-015-55948 FROM: TO: KOP: 2435' FNL & 1949' FEL OF SECTION 30-T25S-R31E 2042' FNL & 2206' FEL OF SECTION 30-T25S-R31E FTP: 2435' FNL & 2090' FEL OF SECTION 30-T25S-R31E 2557' FSL & 2203' FEL OF SECTION 30-T25S-R31E LTP: 100' FSL & 2090' FEL OF SECTION 6-T26S-R31E 100' FSL & 2231' FEL OF SECTION 6-T26S-R31E BHL: 50' FSL & 2090' FEL OF SECTION 6-T26S-R31E 10' FSL & 2231' FEL OF SECTION 6-T26S-R31E The proposed total depth is changing from 24687' MD; 10871' TVD to 23693' MD; 10079' TVD. Pool Code is changing FROM 97975 / WC-015 G-06 S243119C; Bone Spring TO 97913 / WILDCAT G-06 S253002O; BONE SPRING There will be no changes required to the facilities/surface usage that was approved along with the APD. See attached drilling program for the updated casing design, cement program & mud circulation system. Attachments: C-102, Drilling Program, Directional Drilling Plan, Choke Manifold Diagram, BOP Diagram, Non-API Spec documents for Intermediate & Production Casing, Flex Hose Variance, Spudder Rig Request

NOI Attachments

Procedure Description

Sundry_Attachments_PLU_30_BS_309H_20250107161633.pdf

Well Name: POKER LAKE UNIT 30 BS

Well Location: T25S / R31E / SEC 30 /
SWNE / 32.101845 / -103.815813County or Parish/State: EDDY /
NM

Well Number: 309H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC061634B

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number:

Operator: XTO PERMIAN OPERATING
LLC**Conditions of Approval****Additional**

PLU_30_BS_309H_COA_20250131080615.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: VISHAL RAJAN

Signed on: JAN 07, 2025 04:16 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Clerk

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND

State: TX

Phone: (432) 620-6704

Email address: VISHAL.RAJAN@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: 01/31/2025

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.

5. Lease Serial No. **NMLC061634B**

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. POKER LAKE UNIT/NMNM71016X
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. POKER LAKE UNIT 30 BS/309H	
2. Name of Operator XTO PERMIAN OPERATING LLC	9. API Well No.	
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,	3b. Phone No. (include area code) (432) 683-2277	10. Field and Pool or Exploratory Area WC-015 G-06 S243119C/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 30/T25S/R31E/NMP		11. Country or Parish, State EDDY/NM

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleation 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.)

XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, LTP, BHL, Proposed total Depth, Pool. There is a dedicated acreage change. There is no new surface disturbance. The API number for this well is 30-015-55948

FROM: TO:

KOP: 2435' FNL & 1949' FEL OF SECTION 30-T25S-R31E 2042 FNL & 2206 FEL OF SECTION 30-T25S-R31E
FTP: 2435' FNL & 2090' FEL OF SECTION 30-T25S-R31E 2557' FSL & 2203' FEL OF SECTION 30-T25S-R31E
LTP: 100' FSL & 2090' FEL OF SECTION 6-T26S-R31E 100' FSL & 2231' FEL OF SECTION 6-T26S-R31E
BHL: 50' FSL & 2090' FEL OF SECTION 6-T26S-R31E 10' FSL & 2231' FEL OF SECTION 6-T26S-R31E

The proposed total depth is changing from 24687 MD; 10871 TVD to 23693 MD; 10079 TVD.
Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) VISHAL RAJAN / Ph: (432) 620-6704	Title Regulatory Clerk
Signature (Electronic Submission)	Date 01/07/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Petroleum Engineer	01/31/2025
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.	Title	Date
	Office CARLSBAD	

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

Pool Code is changing FROM 97975 / WC-015 G-06 S243119C; Bone Spring TO 97913 / WILDCAT G-06 S2530020; BONE SPRING

There will be no changes required to the facilities/surface usage that was approved along with the APD.

See attached drilling program for the updated casing design, cement program & mud circulation system.

Attachments: C-102, Drilling Program, Directional Drilling Plan, Choke Manifold Diagram, BOP Diagram, Non-API Spec documents for Intermediate & Production Casing, Flex Hose Variance, Spudder Rig Request

Location of Well

0. SHL: SWNE / 2435 FNL / 1949 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101845 / LONG: -103.815813 (TVD: 0 feet, MD: 0 feet)

PPP: NWSE / 2658 FNL / 2089 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101231 / LONG: -103.815639 (TVD: 10871 feet, MD: 11600 feet)

PPP: NWSE / 2655 FNL / 2074 FEL / TWSP: 25S / RANGE: 31E / SECTION: 31 / LAT: 32.08663 / LONG: -103.815665 (TVD: 10871 feet, MD: 16900 feet)

PPP: SWNE / 2435 FNL / 2090 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101844 / LONG: -103.815638 (TVD: 10871 feet, MD: 11300 feet)

BHL: SWSE / 50 FSL / 2090 FEL / TWSP: 26S / RANGE: 31E / SECTION: 6 / LAT: 32.064823 / LONG: -103.815704 (TVD: 10871 feet, MD: 24687 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMNM0157756A
LOCATION:	Sec. 30, T.25 S, R 31 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 30 BS 309H
SURFACE HOLE FOOTAGE:	2435'N & 1949'E
BOTTOM HOLE FOOTAGE:	10'S & 2231'E

*Changes approved through engineering via **Sundry 2830597** on 1-30-2025. Any previous COAs not addressed within the updated COAs still apply.*

COA

H ₂ S	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Potash / WIPP	<input checked="" type="radio"/> None <input type="radio"/> Secretary <input type="radio"/> R-111-Q <input type="checkbox"/> Open Annulus Choose an option (including blank option.) <input type="checkbox"/> WIPP	
Cave / Karst	<input type="radio"/> Low	<input checked="" type="radio"/> Medium <input type="radio"/> High <input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl <input type="radio"/> Both <input type="radio"/> Diverter
Cementing	<input checked="" type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze <input checked="" type="checkbox"/> EchoMeter <input type="checkbox"/> DV Tool
Special Req	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal <input type="checkbox"/> COM <input checked="" type="checkbox"/> Unit
Waste Prev.	<input type="radio"/> Self-Certification	<input type="radio"/> Waste Min. Plan <input checked="" type="radio"/> APD Submitted prior to 06/10/2024
Additional Language	<input checked="" type="checkbox"/> Flex Hose <input checked="" type="checkbox"/> Casing Clearance <input type="checkbox"/> Pilot Hole <input checked="" type="checkbox"/> Break Testing <input type="checkbox"/> Four-String <input checked="" type="checkbox"/> Offline Cementing <input type="checkbox"/> Fluid-Filled	

A. HYDROGEN SULFIDE

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

B. CASING

1. The 9-5/8 inch surface casing shall be set at approximately **1084** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be

notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 7795'**.
- b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down **Surface X Intermediate 1** annulus after primary cementing stage. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Surface casing to tieback requirements listed above after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

If cement does not reach surface, the next casing string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing **P-110 Wedge 441 and TPN** is:
 - Cement should tie-back **200 feet** into the previous casing. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

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

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

BOPE Break Testing Variance

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

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
BLM_NM_CFO_DrillingNotifications@BLM.GOV; (575) 361-2822

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

A. CASING

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

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 1/31/2025
575-234-5998 / zstevens@blm.gov

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

WELL LOCATION INFORMATION			
API Number 30-015	Pool Code 97913	Pool Name WILDCAT G-06 S253002O;BONE SPRING	
Property Code	Property Name POKER LAKE UNIT 30 BS	Well Number 309H	
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,366'	
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal	

Surface Location									
UL G	Section 30	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,435' FNL	Ft. from E/W 1,949' FEL	Latitude 32.101845	Longitude -103.815183	County EDDY

Bottom Hole Location									
UL O	Section 6	Township 26 S	Range 31 E	Lot	Ft. from N/S 10' FSL	Ft. from E/W 2,231' FEL	Latitude 32.064711	Longitude -103.816159	County EDDY



Dedicated Acres 400	Infill or Defining Well DEFINING	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code U
Order Numbers.			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)									
UL G	Section 30	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,042' FNL	Ft. from E/W 2,206' FEL	Latitude 32.102924	Longitude -103.816002	County EDDY

First Take Point (FTP)									
UL J	Section 30	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,557' FSL	Ft. from E/W 2,203' FEL	Latitude 32.100955	Longitude -103.816010	County EDDY

Last Take Point (LTP)									
UL O	Section 6	Township 26 S	Range 31 E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 2,231' FEL	Latitude 32.064958	Longitude -103.816159	County EDDY

Unitized Area or Area of Uniform Interest NMNM-071016X	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3,366'
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OPERATOR CERTIFICATIONS <i>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> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.</i> Terra Sebastian 1/06/2025	SURVEYOR CERTIFICATIONS <i>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.</i> I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.  6 Jan 2025 TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209 
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Released to Imaging: 2/7/2025 1:37:01 PM	Signature and Seal of Professional Surveyor
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ACREAGE DEDICATION PLATS

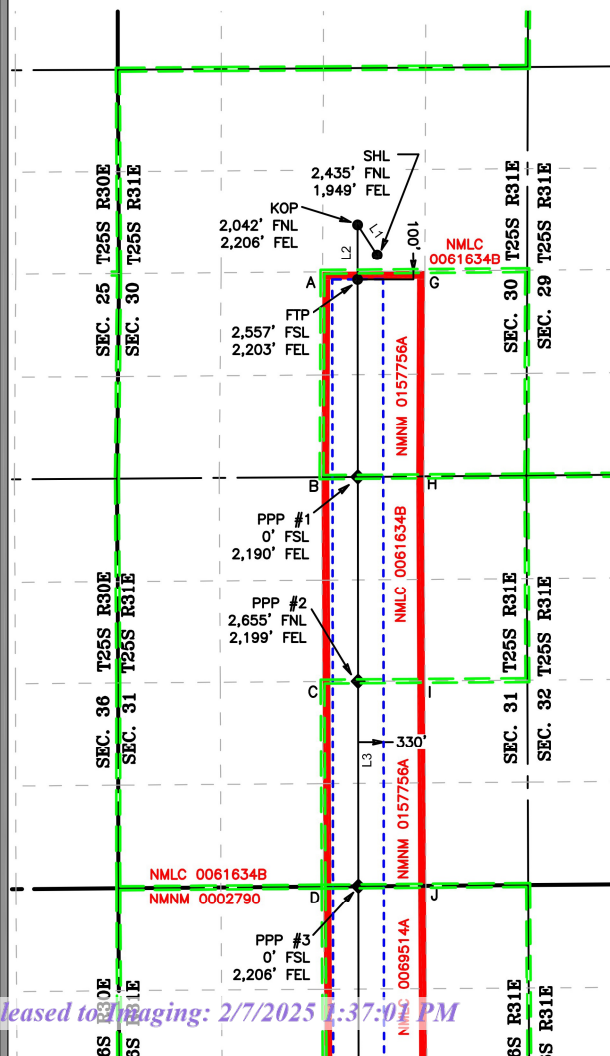
This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the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

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

LEGEND

-  SECTION LINE
 PROPOSED WELLBORE
 NEW MEXICO MINERAL
 LEASE LINE
 330' BUFFER
 DEDICATED ACREAGE

<u>LINE TABLE</u>		
LINE	AZIMUTH	LENGTH
L1	326° 49'49"	467.35'
L2	179° 55'32"	716.19'
L3	179° 55'30"	13.185.12'



COORDINATE TABLE

SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	401,173.4	N	Y =	387,753.3	N
X =	701,781.2	E	X =	701,543.2	E
LAT. =	32.101845	°N	LAT. =	32.064958	°N
LONG. =	103.815183	°W	LONG. =	103.816159	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	401,564.6	N	Y =	387,663.3	N
X =	701,525.5	E	X =	701,543.6	E
LAT. =	32.102924	°N	LAT. =	32.064711	°N
LONG. =	103.816002	°W	LONG. =	103.816159	°W
FTP (NAD 83 NME)					
Y =	400,848.4	N			
X =	701,526.4	E			
LAT. =	32.100955	°N			
LONG. =	103.816010	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	401,115.5	N	Y =	387,695.7	N
X =	660,595.6	E	X =	660,357.2	E
LAT. =	32.101721	°N	LAT. =	32.064834	°N
LONG. =	103.814704	°W	LONG. =	103.815652	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	401,506.7	N	Y =	387,605.7	N
X =	660,340.0	E	X =	660,357.6	E
LAT. =	32.102799	°N	LAT. =	32.064586	°N
LONG. =	103.815523	°W	LONG. =	103.815652	°W
FTP (NAD 27 NME)					
Y =	400,790.5	N			
X =	660,340.8	E			
LAT. =	32.100831	°N			
LONG. =	103.815532	°W			
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	398,291.5	N	Y =	398,233.7	N
X =	701,529.7	E	X =	660,344.0	E
LAT. =	32.093927	°N	LAT. =	32.093802	°N
LONG. =	103.816039	°W	LONG. =	103.815561	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	395,636.9	N	Y =	395,579.4	N
X =	701,533.1	E	X =	660,347.3	E
LAT. =	32.086629	°N	LAT. =	32.086505	°N
LONG. =	103.816070	°W	LONG. =	103.815591	°W
PPP #3 (NAD 83 NME)			PPP #3 (NAD 27 NME)		
Y =	392,978.4	N	Y =	392,920.7	N
X =	701,536.5	E	X =	660,350.7	E
LAT. =	32.079322	°N	LAT. =	32.079197	°N
LONG. =	103.816100	°W	LONG. =	103.815622	°W

CORNER COORDINATES (NAD83 NME)

A - Y =	400,944.7	N	A - X =	701,070.7	E
B - Y =	398,288.0	N	B - X =	701,058.4	E
C - Y =	395,633.7	N	C - X =	701,071.1	E
D - Y =	392,974.7	N	D - X =	701,083.8	E
E - Y =	390,312.1	N	E - X =	701,099.4	E
F - Y =	387,649.2	N	F - X =	701,115.0	E
G - Y =	400,955.6	N	G - X =	702,400.1	E
H - Y =	398,298.0	N	H - X =	702,389.1	E
I - Y =	395,642.9	N	I - X =	702,401.5	E
J - Y =	392,985.5	N	J - X =	702,412.9	E
K - Y =	390,323.9	N	K - X =	702,428.8	E
L - Y =	387,661.9	N	L - X =	702,444.8	E

CORNER COORDINATES (NAD27 NME)

A - Y =	400,886.8	N	A - X =	659,885.1	E
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DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.
PLU 30 BS 309H
Projected TD: 23693' MD / 10079' TVD
SHL: 2435' FNL & 1949' FEL , Section 30, T25S, R31E
BHL: 10' FSL & 2231' FEL , Section 6, T26S, 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	Water/Oil/Gas
Rustler	946'	Water
Salado	1286'	Water
Base of Salt	3965'	Water
Delaware	4170'	Water/Oil/Gas
Cherry Canyon	5117'	Water/Oil/Gas
Brushy Canyon	6772'	Water/Oil/Gas
Basal Brushy Canyon	7827'	Water/Oil/Gas
Bone Spring Lm.	8055'	Water/Oil/Gas
Avalon	8197'	Water/Oil/Gas
Lower Avalon	8518'	Water/Oil/Gas
1st Bone Spring Lime	8864'	Water/Oil/Gas
1st Bone Spring Sand	9009'	Water/Oil/Gas
2nd Bone Spring Shale	9300'	Water/Oil/Gas
2nd Bone Spring Lime	9455'	Water/Oil/Gas
2nd Bone Spring Sand	9641'	Water/Oil/Gas
2nd Bone Spring T/B Carb	9985'	Water/Oil/Gas
2nd Bone Spring Sand (Lwr)	10079'	Water/Oil/Gas
2nd BS Sand Lower Landing	10079'	Water/Oil/Gas
3rd Bone Spring Lime	10086'	Water/Oil/Gas

Section 2 Summary:

*** Deepest Expected Groundwater Depth: 40' (per NM State Engineers Office).

No other formations are expected to give up oil, gas or fresh water in measurable quantities.
Surface fresh water sands will be protected by setting 9-5/8" inch casing at 1261' and circulating cement back to surface.

3. Casing Design

Primary Design:

Hole Size	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' - 1261'	1261'	9-5/8"	40	J55	BTC	New	10.21	4.71	4.85
8.75	0' - 9183'	9163'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.27	1.48	2.33
6.75	0' - 23693'	10079'	5-1/2"	20	P110-CY	Tenaris Wedge 461	New	1.18	2.54	1.75

Section 3 Summary:

The planned kick off point is located at: 9383' MD / 9363' TVD.

Wellhead:

A multi-bowl wellhead system will be utilized. The well design chosen is: 3-String Slim Non-Potash

Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

Primary Cementing								
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft ³ /sack)	TOC (ft)	Casing Setting Depth	Excess (%)	Slurry Description
Surface 1	Lead	285	12.4	2.11	0	1261	100%	Surface Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	961	1261	100%	Surface Class C Tail Cement
Intermediate 1	Lead				0			
Intermediate 1	Tail	127	14.8	1.45	7827	9183	35%	Intermediate Class C Tail Cement
Production 1	Lead							
Production 1	Tail	1132	13.2	1.44	8683	23693	30%	Production Class C Tail Cement
Remedial Cementing								
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft ³ /sack)	Cemented Interval	Excess (%)	Slurry Description	
Intermediate 1	Bradenhead Squeeze	814	14.8	1.45	0 - 7827'	50%	Intermediate Class C Bradenhead Squeeze Cement	

Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline

5. Pressure Control Equipment**Section 5 Summary:**

Once the permanent WH is installed on the casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril Annular and a 10M Triple Ram BOP.

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

Requested Variances**4A) Offline Cementing Variance**

XOM 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. XOM 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. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence. The TA cap will also be installed when applicable per wellhead manufacturer's procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5A) Break Test Variance

A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated Surface hole pressure at the deepest intermediate casing point is less than 4800psi.

5B) Flex Hose Variance

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.

5C) 5M Annular Variance

XOM requests a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables attached along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

8A) Open Hole Logging Variance

Open hole logging will not be done on this well.

10A) Spudder Rig Variance

XOM requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.

10B) Batch Drilling Variance

XOM requests a variance to be able to batch drill this well. In doing so, XOM will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. XOM 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, XOM will begin drilling the production hole on each of the wells.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Comments
0' – 1261'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
1261' – 9183'	8.75"	BDE/OBM or FW/Brine	9.5 - 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
9183' – 23693'	6.75"	OBM	9 - 9.6	50-60	NC - 20	

Section 6 Summary:

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

Spud with fresh water/native mud. Drill out from under surface casing with a fully saturated brine 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. An EDR (Electronic Drilling Recorder) 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**Section 7 Summary:**

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 9-5/8" casing.

8. Logging, Coring and Testing Program**Section 8 Summary:**

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards**Section 9 Summary:**

The estimated bottom hole temperature of 166F to 186F. 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 is possible throughout the well.

10. Anticipated Starting Date and Duration of Operations**Section 10 Summary:**

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

Well Plan Report - Poker Lake Unit 30 BS 309H

Measured Depth:	23692.66 ft	Site:	B
TVD RKB:	10079.00 ft	Slot:	Poker Lake Unit 30 BS 309H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	401115.50 ft		
Easting:	660595.60 ft		
RKB:	3398.00 ft		
Ground Level:	3366.00 ft		
North Reference:	Grid		
Convergence Angle:	0.28 Deg		

Plan Sections

Measured					Poker Lake Unit 30 BS 309H				
Depth	Inclination	Azimuth	TVD						
(ft)	(Deg)	(Deg)	RKB	(ft)					
0.00	0.00	0.00	0.00	0.00					
1100.00	0.00	0.00	1100.00	0.00					
1349.61	4.99	326.83	1349.29	9.10					
6470.45	4.99	326.83	6450.71	382.10					
6720.06	0.00	0.00	6700.00	391.20					
9382.86	0.00	0.00	9362.80	391.20					
10507.86	90.00	179.93	10079.00	-325.00					
23602.67	90.00	179.93	10079.00	-13419.80					
23692.66	90.00	179.93	10079.00	-13509.79					

Build				Turn				Dogleg			
Rate				Rate				Rate			
(Deg/100ft)				(Deg/100ft)				(Deg/100ft)			
0.00				0.00				0.00			
0.00				0.00				0.00			
2.00				0.00				2.00			
0.00				0.00				0.00			
-2.00				0.00				2.00			
0.00				0.00				0.00			
8.00				0.00				8.00			
0.00				0.00				0.00			
0.00				0.00				0.00			

Position Uncertainty

Poker Lake Unit 30 BS 309H

Magnitude	Semi-major	Semi-minor	Tool
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Vertical	Lateral	TVD	Highside
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Well Plan Report

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.000	0.220	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	1.259	0.000	0.627	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	1.698	0.000	0.986	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	2.108	0.000	1.344	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	2.503	0.000	1.701	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	2.888	0.000	2.059	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	3.267	0.000	2.417	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.485	0.000	3.642	0.000	2.775	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.531	0.000	4.014	0.000	3.133	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.581	0.000	4.384	0.000	3.491	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.634	0.000	4.752	0.000	3.849	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	326.830	1199.980	4.474	0.000	5.020	0.000	2.691	0.000	5.173	0.000	4.298	4.298	121.144	MWD+IFR1+MS
1300.000	4.000	326.830	1299.838	5.342	0.000	5.353	0.000	2.751	0.000	5.774	0.000	4.891	4.891	101.947	MWD+IFR1+MS
1349.609	4.992	326.830	1349.294	5.557	0.000	5.507	0.000	2.779	0.000	5.969	0.000	5.072	5.072	99.779	MWD+IFR1+MS
1400.000	4.992	326.830	1399.493	5.724	0.000	5.662	0.000	2.810	0.000	6.127	0.000	5.238	5.238	99.392	MWD+IFR1+MS
1500.000	4.992	326.830	1499.114	6.052	0.000	5.988	0.000	2.876	0.000	6.453	0.000	5.566	5.566	99.361	MWD+IFR1+MS
1600.000	4.992	326.830	1598.734	6.396	0.000	6.330	0.000	2.945	0.000	6.807	0.000	5.898	5.898	99.399	MWD+IFR1+MS
1700.000	4.992	326.830	1698.355	6.742	0.000	6.675	0.000	3.016	0.000	7.161	0.000	6.234	6.234	99.427	MWD+IFR1+MS
1800.000	4.992	326.830	1797.976	7.090	0.000	7.020	0.000	3.090	0.000	7.517	0.000	6.571	6.571	99.446	MWD+IFR1+MS
1900.000	4.992	326.830	1897.596	7.440	0.000	7.368	0.000	3.165	0.000	7.872	0.000	6.912	6.912	99.459	MWD+IFR1+MS
2000.000	4.992	326.830	1997.217	7.791	0.000	7.716	0.000	3.243	0.000	8.229	0.000	7.254	7.254	99.467	MWD+IFR1+MS
2100.000	4.992	326.830	2096.838	8.143	0.000	8.066	0.000	3.323	0.000	8.586	0.000	7.597	7.597	99.470	MWD+IFR1+MS
2200.000	4.992	326.830	2196.458	8.496	0.000	8.417	0.000	3.404	0.000	8.944	0.000	7.943	7.943	99.469	MWD+IFR1+MS
2300.000	4.992	326.830	2296.079	8.850	0.000	8.768	0.000	3.487	0.000	9.302	0.000	8.289	8.289	99.465	MWD+IFR1+MS
2400.000	4.992	326.830	2395.700	9.204	0.000	9.120	0.000	3.571	0.000	9.660	0.000	8.637	8.637	99.458	MWD+IFR1+MS
2500.000	4.992	326.830	2495.320	9.560	0.000	9.473	0.000	3.657	0.000	10.019	0.000	8.986	8.986	99.449	MWD+IFR1+MS
2600.000	4.992	326.830	2594.941	9.916	0.000	9.827	0.000	3.745	0.000	10.378	0.000	9.335	9.335	99.438	MWD+IFR1+MS
2700.000	4.992	326.830	2694.562	10.272	0.000	10.181	0.000	3.834	0.000	10.737	0.000	9.686	9.686	99.425	MWD+IFR1+MS
2800.000	4.992	326.830	2794.182	10.629	0.000	10.535	0.000	3.925	0.000	11.096	0.000	10.037	10.037	99.410	MWD+IFR1+MS
2900.000	4.992	326.830	2893.803	10.987	0.000	10.890	0.000	4.016	0.000	11.456	0.000	10.389	10.389	99.395	MWD+IFR1+MS

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3000.000	4.992	326.830	2993.424	11.344	0.000	11.245	0.000	4.110	0.000	0.000	11.816	10.741	99.377	MWD+IFR1+MS
3100.000	4.992	326.830	3093.044	11.703	0.000	11.601	0.000	4.204	0.000	0.000	12.176	11.094	99.359	MWD+IFR1+MS
3200.000	4.992	326.830	3192.665	12.061	0.000	11.957	0.000	4.300	0.000	0.000	12.536	11.447	99.340	MWD+IFR1+MS
3300.000	4.992	326.830	3292.286	12.420	0.000	12.313	0.000	4.397	0.000	0.000	12.897	11.801	99.320	MWD+IFR1+MS
3400.000	4.992	326.830	3391.906	12.779	0.000	12.669	0.000	4.496	0.000	0.000	13.257	12.155	99.299	MWD+IFR1+MS
3500.000	4.992	326.830	3491.527	13.139	0.000	13.026	0.000	4.596	0.000	0.000	13.618	12.510	99.278	MWD+IFR1+MS
3600.000	4.992	326.830	3591.148	13.498	0.000	13.383	0.000	4.698	0.000	0.000	13.979	12.865	99.256	MWD+IFR1+MS
3700.000	4.992	326.830	3690.768	13.858	0.000	13.740	0.000	4.801	0.000	0.000	14.340	13.220	99.233	MWD+IFR1+MS
3800.000	4.992	326.830	3790.389	14.218	0.000	14.098	0.000	4.905	0.000	0.000	14.701	13.575	99.210	MWD+IFR1+MS
3900.000	4.992	326.830	3890.010	14.578	0.000	14.455	0.000	5.011	0.000	0.000	15.062	13.931	99.186	MWD+IFR1+MS
4000.000	4.992	326.830	3989.630	14.939	0.000	14.813	0.000	5.118	0.000	0.000	15.423	14.287	99.162	MWD+IFR1+MS
4100.000	4.992	326.830	4089.251	15.299	0.000	15.171	0.000	5.227	0.000	0.000	15.784	14.643	99.137	MWD+IFR1+MS
4200.000	4.992	326.830	4188.872	15.660	0.000	15.529	0.000	5.337	0.000	0.000	16.145	14.999	99.112	MWD+IFR1+MS
4300.000	4.992	326.830	4288.492	16.021	0.000	15.887	0.000	5.449	0.000	0.000	16.507	15.356	99.087	MWD+IFR1+MS
4400.000	4.992	326.830	4388.113	16.382	0.000	16.245	0.000	5.562	0.000	0.000	16.868	15.713	99.061	MWD+IFR1+MS
4500.000	4.992	326.830	4487.734	16.743	0.000	16.603	0.000	5.677	0.000	0.000	17.230	16.070	99.036	MWD+IFR1+MS
4600.000	4.992	326.830	4587.354	17.104	0.000	16.962	0.000	5.794	0.000	0.000	17.591	16.427	99.009	MWD+IFR1+MS
4700.000	4.992	326.830	4686.975	17.465	0.000	17.320	0.000	5.912	0.000	0.000	17.953	16.784	98.983	MWD+IFR1+MS
4800.000	4.992	326.830	4786.595	17.827	0.000	17.679	0.000	6.032	0.000	0.000	18.315	17.141	98.956	MWD+IFR1+MS
4900.000	4.992	326.830	4886.216	18.188	0.000	18.038	0.000	6.154	0.000	0.000	18.677	17.499	98.930	MWD+IFR1+MS
5000.000	4.992	326.830	4985.837	18.550	0.000	18.397	0.000	6.278	0.000	0.000	19.038	17.856	98.903	MWD+IFR1+MS
5100.000	4.992	326.830	5085.457	18.911	0.000	18.755	0.000	6.403	0.000	0.000	19.400	18.214	98.875	MWD+IFR1+MS
5200.000	4.992	326.830	5185.078	19.273	0.000	19.114	0.000	6.531	0.000	0.000	19.762	18.572	98.848	MWD+IFR1+MS
5300.000	4.992	326.830	5284.699	19.635	0.000	19.473	0.000	6.660	0.000	0.000	20.124	18.930	98.820	MWD+IFR1+MS
5400.000	4.992	326.830	5384.319	19.997	0.000	19.833	0.000	6.791	0.000	0.000	20.486	19.288	98.793	MWD+IFR1+MS
5500.000	4.992	326.830	5483.940	20.359	0.000	20.192	0.000	6.925	0.000	0.000	20.848	19.646	98.765	MWD+IFR1+MS
5600.000	4.992	326.830	5583.561	20.721	0.000	20.551	0.000	7.060	0.000	0.000	21.210	20.004	98.737	MWD+IFR1+MS
5700.000	4.992	326.830	5683.181	21.083	0.000	20.910	0.000	7.197	0.000	0.000	21.572	20.363	98.708	MWD+IFR1+MS
5800.000	4.992	326.830	5782.802	21.445	0.000	21.270	0.000	7.336	0.000	0.000	21.934	20.721	98.680	MWD+IFR1+MS
5900.000	4.992	326.830	5882.423	21.807	0.000	21.629	0.000	7.478	0.000	0.000	22.297	21.079	98.652	MWD+IFR1+MS
6000.000	4.992	326.830	5982.043	22.169	0.000	21.989	0.000	7.621	0.000	0.000	22.659	21.438	98.623	MWD+IFR1+MS
6100.000	4.992	326.830	6081.664	22.532	0.000	22.348	0.000	7.767	0.000	0.000	23.021	21.796	98.594	MWD+IFR1+MS
6200.000	4.992	326.830	6181.285	22.894	0.000	22.708	0.000	7.915	0.000	0.000	23.383	22.155	98.565	MWD+IFR1+MS

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6300.000	4.992	326.830	6280.905	23.256	0.000	23.067	0.000	8.065	0.000	0.000	23.746	22.514	98.536	MWD+IFR1+MS
6400.000	4.992	326.830	6380.526	23.619	0.000	23.427	0.000	8.218	0.000	0.000	24.108	22.873	98.507	MWD+IFR1+MS
6470.448	4.992	326.830	6450.706	23.872	0.000	23.678	0.000	8.326	0.000	0.000	24.358	23.125	98.472	MWD+IFR1+MS
6500.000	4.401	326.830	6480.159	23.979	0.000	23.782	0.000	8.373	0.000	0.000	24.461	23.231	98.444	MWD+IFR1+MS
6600.000	2.401	326.830	6579.978	24.370	0.000	24.135	0.000	8.529	0.000	0.000	24.846	23.598	97.444	MWD+IFR1+MS
6700.000	0.401	326.830	6679.943	24.793	0.000	24.490	0.000	8.685	0.000	0.000	25.282	23.974	95.348	MWD+IFR1+MS
6720.057	0.000	0.000	6700.000	25.340	0.000	24.056	0.000	8.717	0.000	0.000	25.351	24.045	95.321	MWD+IFR1+MS
6800.000	0.000	0.000	6779.943	25.613	0.000	24.337	0.000	8.842	0.000	0.000	25.624	24.326	95.389	MWD+IFR1+MS
6900.000	0.000	0.000	6879.943	25.957	0.000	24.693	0.000	9.001	0.000	0.000	25.969	24.681	95.637	MWD+IFR1+MS
7000.000	0.000	0.000	6979.943	26.303	0.000	25.051	0.000	9.162	0.000	0.000	26.316	25.037	95.940	MWD+IFR1+MS
7100.000	0.000	0.000	7079.943	26.649	0.000	25.409	0.000	9.326	0.000	0.000	26.663	25.393	96.239	MWD+IFR1+MS
7200.000	0.000	0.000	7179.943	26.995	0.000	25.766	0.000	9.492	0.000	0.000	27.011	25.749	96.534	MWD+IFR1+MS
7300.000	0.000	0.000	7279.943	27.341	0.000	26.124	0.000	9.661	0.000	0.000	27.359	26.106	96.825	MWD+IFR1+MS
7400.000	0.000	0.000	7379.943	27.688	0.000	26.481	0.000	9.833	0.000	0.000	27.707	26.462	97.112	MWD+IFR1+MS
7500.000	0.000	0.000	7479.943	28.036	0.000	26.839	0.000	10.008	0.000	0.000	28.056	26.818	97.396	MWD+IFR1+MS
7600.000	0.000	0.000	7579.943	28.383	0.000	27.197	0.000	10.185	0.000	0.000	28.405	27.174	97.675	MWD+IFR1+MS
7700.000	0.000	0.000	7679.943	28.731	0.000	27.555	0.000	10.365	0.000	0.000	28.754	27.531	97.951	MWD+IFR1+MS
7800.000	0.000	0.000	7779.943	29.079	0.000	27.912	0.000	10.547	0.000	0.000	29.103	27.887	98.223	MWD+IFR1+MS
7900.000	0.000	0.000	7879.943	29.427	0.000	28.270	0.000	10.733	0.000	0.000	29.453	28.243	98.491	MWD+IFR1+MS
8000.000	0.000	0.000	7979.943	29.776	0.000	28.628	0.000	10.921	0.000	0.000	29.803	28.599	98.756	MWD+IFR1+MS
8100.000	0.000	0.000	8079.943	30.124	0.000	28.986	0.000	11.112	0.000	0.000	30.153	28.956	99.017	MWD+IFR1+MS
8200.000	0.000	0.000	8179.943	30.473	0.000	29.343	0.000	11.305	0.000	0.000	30.504	29.312	99.274	MWD+IFR1+MS
8300.000	0.000	0.000	8279.943	30.823	0.000	29.701	0.000	11.502	0.000	0.000	30.855	29.668	99.528	MWD+IFR1+MS
8400.000	0.000	0.000	8379.943	31.172	0.000	30.059	0.000	11.701	0.000	0.000	31.206	30.024	99.777	MWD+IFR1+MS
8500.000	0.000	0.000	8479.943	31.522	0.000	30.417	0.000	11.903	0.000	0.000	31.557	30.381	100.024	MWD+IFR1+MS
8600.000	0.000	0.000	8579.943	31.871	0.000	30.775	0.000	12.109	0.000	0.000	31.908	30.737	100.267	MWD+IFR1+MS
8700.000	0.000	0.000	8679.943	32.221	0.000	31.133	0.000	12.316	0.000	0.000	32.260	31.093	100.506	MWD+IFR1+MS
8800.000	0.000	0.000	8779.943	32.572	0.000	31.491	0.000	12.527	0.000	0.000	32.611	31.449	100.742	MWD+IFR1+MS
8900.000	0.000	0.000	8879.943	32.922	0.000	31.848	0.000	12.741	0.000	0.000	32.963	31.806	100.975	MWD+IFR1+MS
9000.000	0.000	0.000	8979.943	33.273	0.000	32.206	0.000	12.957	0.000	0.000	33.315	32.162	101.204	MWD+IFR1+MS
9100.000	0.000	0.000	9079.943	33.623	0.000	32.564	0.000	13.177	0.000	0.000	33.668	32.518	101.430	MWD+IFR1+MS
9200.000	0.000	0.000	9179.943	33.974	0.000	32.922	0.000	13.399	0.000	0.000	34.020	32.875	101.653	MWD+IFR1+MS
9300.000	0.000	0.000	9279.943	34.325	0.000	33.280	0.000	13.625	0.000	0.000	34.373	33.231	101.873	MWD+IFR1+MS

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9382.860	0.000	0.000	9362.803	34.615	0.000	33.575	0.000	13.813	0.000	0.000	34.663	33.525	101.990	MWD+IFR1+MS
9400.000	1.371	179.928	9379.941	34.632	0.000	33.634	-0.000	13.853	0.000	0.000	34.719	33.583	101.987	MWD+IFR1+MS
9500.000	9.371	179.928	9479.421	34.807	0.000	33.949	-0.000	14.098	0.000	0.000	35.431	33.904	99.750	MWD+IFR1+MS
9600.000	17.371	179.928	9576.632	35.225	0.000	34.252	-0.000	14.470	0.000	0.000	36.840	34.209	97.150	MWD+IFR1+MS
9700.000	25.371	179.928	9669.680	35.098	0.000	34.536	-0.000	15.049	0.000	0.000	38.088	34.490	96.252	MWD+IFR1+MS
9800.000	33.371	179.928	9756.755	34.483	0.000	34.798	-0.000	15.890	0.000	0.000	39.150	34.748	95.869	MWD+IFR1+MS
9900.000	41.371	179.928	9836.163	33.463	0.000	35.038	-0.000	17.005	0.000	0.000	40.015	34.983	95.719	MWD+IFR1+MS
10000.000	49.371	179.928	9906.357	32.151	0.000	35.255	-0.000	18.373	0.000	0.000	40.682	35.196	95.698	MWD+IFR1+MS
10100.000	57.371	179.928	9965.971	30.688	0.000	35.450	-0.000	19.947	0.000	0.000	41.162	35.386	95.754	MWD+IFR1+MS
10200.000	65.371	179.928	10013.845	29.252	0.000	35.623	-0.000	21.665	0.000	0.000	41.473	35.555	95.852	MWD+IFR1+MS
10300.000	73.371	179.928	10049.048	28.050	0.000	35.774	-0.000	23.464	0.000	0.000	41.646	35.703	95.958	MWD+IFR1+MS
10400.000	81.371	179.928	10070.893	27.295	0.000	35.902	-0.000	25.280	0.000	0.000	41.717	35.830	96.033	MWD+IFR1+MS
10507.860	90.000	179.928	10079.000	27.472	0.000	36.016	-0.000	27.472	0.000	0.000	41.732	35.946	96.028	MWD+IFR1+MS
10600.000	90.000	179.928	10079.000	28.035	0.000	36.109	-0.000	28.035	0.000	0.000	41.734	36.041	95.962	MWD+IFR1+MS
10700.000	90.000	179.928	10079.000	28.204	0.000	36.230	-0.000	28.204	0.000	0.000	41.736	36.165	95.909	MWD+IFR1+MS
10800.000	90.000	179.928	10079.000	28.394	0.000	36.373	-0.000	28.394	0.000	0.000	41.739	36.310	95.876	MWD+IFR1+MS
10900.000	90.000	179.928	10079.000	28.605	0.000	36.536	-0.000	28.605	0.000	0.000	41.742	36.475	95.862	MWD+IFR1+MS
11000.000	90.000	179.928	10079.000	28.835	0.000	36.719	-0.000	28.835	0.000	0.000	41.747	36.661	95.870	MWD+IFR1+MS
11100.000	90.000	179.928	10079.000	29.085	0.000	36.923	-0.000	29.085	0.000	0.000	41.752	36.867	95.901	MWD+IFR1+MS
11200.000	90.000	179.928	10079.000	29.353	0.000	37.146	-0.000	29.353	0.000	0.000	41.757	37.092	95.959	MWD+IFR1+MS
11300.000	90.000	179.928	10079.000	29.640	0.000	37.389	-0.000	29.640	0.000	0.000	41.764	37.336	96.048	MWD+IFR1+MS
11400.000	90.000	179.928	10079.000	29.945	0.000	37.651	-0.000	29.945	0.000	0.000	41.771	37.599	96.175	MWD+IFR1+MS
11500.000	90.000	179.928	10079.000	30.267	0.000	37.932	-0.000	30.267	0.000	0.000	41.779	37.881	96.349	MWD+IFR1+MS
11600.000	90.000	179.928	10079.000	30.606	0.000	38.231	-0.000	30.606	0.000	0.000	41.788	38.180	96.581	MWD+IFR1+MS
11700.000	90.000	179.928	10079.000	30.961	0.000	38.547	-0.000	30.961	0.000	0.000	41.798	38.497	96.890	MWD+IFR1+MS
11800.000	90.000	179.928	10079.000	31.331	0.000	38.881	-0.000	31.331	0.000	0.000	41.809	38.830	97.305	MWD+IFR1+MS
11900.000	90.000	179.928	10079.000	31.717	0.000	39.232	-0.000	31.717	0.000	0.000	41.821	39.180	97.871	MWD+IFR1+MS
12000.000	90.000	179.928	10079.000	32.117	0.000	39.600	-0.000	32.117	0.000	0.000	41.835	39.545	98.663	MWD+IFR1+MS
12100.000	90.000	179.928	10079.000	32.531	0.000	39.983	-0.000	32.531	0.000	0.000	41.851	39.925	99.822	MWD+IFR1+MS
12200.000	90.000	179.928	10079.000	32.959	0.000	40.382	-0.000	32.959	0.000	0.000	41.871	40.317	101.628	MWD+IFR1+MS
12300.000	90.000	179.928	10079.000	33.400	0.000	40.796	-0.000	33.400	0.000	0.000	41.897	40.719	104.731	MWD+IFR1+MS
12400.000	90.000	179.928	10079.000	33.853	0.000	41.225	-0.000	33.853	0.000	0.000	41.938	41.119	110.905	MWD+IFR1+MS
12500.000	90.000	179.928	10079.000	34.318	0.000	41.668	-0.000	34.318	0.000	0.000	42.029	41.486	125.265	MWD+IFR1+MS

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12600.000	90.000	179.928	10079.000	34.795	0.000	42.125	-0.000	34.795	0.000	42.266	41.720	-30.722	MWD+IFR1+MS
12700.000	90.000	179.928	10079.000	35.282	0.000	42.595	-0.000	35.282	0.000	42.658	41.814	-15.989	MWD+IFR1+MS
12800.000	90.000	179.928	10079.000	35.780	0.000	43.078	-0.000	35.780	0.000	43.113	41.858	-9.659	MWD+IFR1+MS
12900.000	90.000	179.928	10079.000	36.289	0.000	43.574	-0.000	36.289	0.000	43.595	41.888	-6.485	MWD+IFR1+MS
13000.000	90.000	179.928	10079.000	36.807	0.000	44.081	-0.000	36.807	0.000	44.095	41.912	-4.635	MWD+IFR1+MS
13100.000	90.000	179.928	10079.000	37.334	0.000	44.600	-0.000	37.334	0.000	44.609	41.934	-3.440	MWD+IFR1+MS
13200.000	90.000	179.928	10079.000	37.870	0.000	45.131	-0.000	37.870	0.000	45.137	41.955	-2.612	MWD+IFR1+MS
13300.000	90.000	179.928	10079.000	38.415	0.000	45.672	-0.000	38.415	0.000	45.676	41.976	-2.009	MWD+IFR1+MS
13400.000	90.000	179.928	10079.000	38.968	0.000	46.224	-0.000	38.968	0.000	46.226	41.996	-1.554	MWD+IFR1+MS
13500.000	90.000	179.928	10079.000	39.529	0.000	46.785	-0.000	39.529	0.000	46.787	42.016	-1.200	MWD+IFR1+MS
13600.000	90.000	179.928	10079.000	40.097	0.000	47.357	-0.000	40.097	0.000	47.358	42.037	-0.919	MWD+IFR1+MS
13700.000	90.000	179.928	10079.000	40.673	0.000	47.938	-0.000	40.673	0.000	47.938	42.058	-0.692	MWD+IFR1+MS
13800.000	90.000	179.928	10079.000	41.255	0.000	48.527	-0.000	41.255	0.000	48.528	42.079	-0.505	MWD+IFR1+MS
13900.000	90.000	179.928	10079.000	41.844	0.000	49.126	-0.000	41.844	0.000	49.126	42.101	-0.350	MWD+IFR1+MS
14000.000	90.000	179.928	10079.000	42.440	0.000	49.733	-0.000	42.440	0.000	49.733	42.123	-0.219	MWD+IFR1+MS
14100.000	90.000	179.928	10079.000	43.041	0.000	50.348	-0.000	43.041	0.000	50.348	42.146	-0.109	MWD+IFR1+MS
14200.000	90.000	179.928	10079.000	43.648	0.000	50.971	-0.000	43.648	0.000	50.971	42.169	-0.015	MWD+IFR1+MS
14300.000	90.000	179.928	10079.000	44.261	0.000	51.601	-0.000	44.261	0.000	51.601	42.193	0.066	MWD+IFR1+MS
14400.000	90.000	179.928	10079.000	44.880	0.000	52.239	-0.000	44.880	0.000	52.239	42.217	0.136	MWD+IFR1+MS
14500.000	90.000	179.928	10079.000	45.503	0.000	52.883	-0.000	45.503	0.000	52.884	42.241	0.196	MWD+IFR1+MS
14600.000	90.000	179.928	10079.000	46.131	0.000	53.535	-0.000	46.131	0.000	53.535	42.267	0.249	MWD+IFR1+MS
14700.000	90.000	179.928	10079.000	46.764	0.000	54.193	-0.000	46.764	0.000	54.193	42.292	0.295	MWD+IFR1+MS
14800.000	90.000	179.928	10079.000	47.402	0.000	54.857	-0.000	47.402	0.000	54.857	42.318	0.336	MWD+IFR1+MS
14900.000	90.000	179.928	10079.000	48.044	0.000	55.527	-0.000	48.044	0.000	55.527	42.345	0.371	MWD+IFR1+MS
15000.000	90.000	179.928	10079.000	48.690	0.000	56.203	-0.000	48.690	0.000	56.203	42.372	0.402	MWD+IFR1+MS
15100.000	90.000	179.928	10079.000	49.340	0.000	56.884	-0.000	49.340	0.000	56.885	42.400	0.430	MWD+IFR1+MS
15200.000	90.000	179.928	10079.000	49.994	0.000	57.571	-0.000	49.994	0.000	57.572	42.428	0.454	MWD+IFR1+MS
15300.000	90.000	179.928	10079.000	50.652	0.000	58.263	-0.000	50.652	0.000	58.265	42.457	0.475	MWD+IFR1+MS
15400.000	90.000	179.928	10079.000	51.313	0.000	58.961	-0.000	51.313	0.000	58.962	42.486	0.494	MWD+IFR1+MS
15500.000	90.000	179.928	10079.000	51.978	0.000	59.663	-0.000	51.978	0.000	59.664	42.516	0.511	MWD+IFR1+MS
15600.000	90.000	179.928	10079.000	52.646	0.000	60.369	-0.000	52.646	0.000	60.371	42.546	0.526	MWD+IFR1+MS
15700.000	90.000	179.928	10079.000	53.317	0.000	61.081	-0.000	53.317	0.000	61.082	42.577	0.539	MWD+IFR1+MS
15800.000	90.000	179.928	10079.000	53.991	0.000	61.796	-0.000	53.991	0.000	61.798	42.608	0.550	MWD+IFR1+MS

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15900.000	90.000	179.928	10079.000	54.668	0.000	62.516	-0.000	54.668	0.000	62.518	42.640	0.560	MWD+IFR1+MS
16000.000	90.000	179.928	10079.000	55.348	0.000	63.240	-0.000	55.348	0.000	63.242	42.672	0.569	MWD+IFR1+MS
16100.000	90.000	179.928	10079.000	56.031	0.000	63.968	-0.000	56.031	0.000	63.970	42.705	0.577	MWD+IFR1+MS
16200.000	90.000	179.928	10079.000	56.717	0.000	64.700	-0.000	56.717	0.000	64.702	42.739	0.583	MWD+IFR1+MS
16300.000	90.000	179.928	10079.000	57.405	0.000	65.435	-0.000	57.405	0.000	65.437	42.772	0.589	MWD+IFR1+MS
16400.000	90.000	179.928	10079.000	58.095	0.000	66.174	-0.000	58.095	0.000	66.176	42.807	0.594	MWD+IFR1+MS
16500.000	90.000	179.928	10079.000	58.788	0.000	66.916	-0.000	58.788	0.000	66.919	42.842	0.598	MWD+IFR1+MS
16600.000	90.000	179.928	10079.000	59.483	0.000	67.662	-0.000	59.483	0.000	67.665	42.877	0.602	MWD+IFR1+MS
16700.000	90.000	179.928	10079.000	60.180	0.000	68.411	-0.000	60.180	0.000	68.414	42.913	0.605	MWD+IFR1+MS
16800.000	90.000	179.928	10079.000	60.880	0.000	69.163	-0.000	60.880	0.000	69.166	42.949	0.607	MWD+IFR1+MS
16900.000	90.000	179.928	10079.000	61.581	0.000	69.918	-0.000	61.581	0.000	69.921	42.986	0.609	MWD+IFR1+MS
17000.000	90.000	179.928	10079.000	62.285	0.000	70.676	-0.000	62.285	0.000	70.679	43.024	0.611	MWD+IFR1+MS
17100.000	90.000	179.928	10079.000	62.990	0.000	71.436	-0.000	62.990	0.000	71.440	43.062	0.612	MWD+IFR1+MS
17200.000	90.000	179.928	10079.000	63.697	0.000	72.200	-0.000	63.697	0.000	72.203	43.100	0.612	MWD+IFR1+MS
17300.000	90.000	179.928	10079.000	64.406	0.000	72.966	-0.000	64.406	0.000	72.969	43.139	0.613	MWD+IFR1+MS
17400.000	90.000	179.928	10079.000	65.117	0.000	73.735	-0.000	65.117	0.000	73.738	43.178	0.613	MWD+IFR1+MS
17500.000	90.000	179.928	10079.000	65.830	0.000	74.506	-0.000	65.830	0.000	74.509	43.218	0.612	MWD+IFR1+MS
17600.000	90.000	179.928	10079.000	66.544	0.000	75.279	-0.000	66.544	0.000	75.283	43.259	0.612	MWD+IFR1+MS
17700.000	90.000	179.928	10079.000	67.259	0.000	76.055	-0.000	67.259	0.000	76.059	43.300	0.611	MWD+IFR1+MS
17800.000	90.000	179.928	10079.000	67.977	0.000	76.833	-0.000	67.977	0.000	76.837	43.341	0.610	MWD+IFR1+MS
17900.000	90.000	179.928	10079.000	68.695	0.000	77.614	-0.000	68.695	0.000	77.618	43.383	0.609	MWD+IFR1+MS
18000.000	90.000	179.928	10079.000	69.415	0.000	78.396	-0.000	69.415	0.000	78.400	43.425	0.608	MWD+IFR1+MS
18100.000	90.000	179.928	10079.000	70.137	0.000	79.181	-0.000	70.137	0.000	79.185	43.468	0.606	MWD+IFR1+MS
18200.000	90.000	179.928	10079.000	70.860	0.000	79.967	-0.000	70.860	0.000	79.971	43.512	0.605	MWD+IFR1+MS
18300.000	90.000	179.928	10079.000	71.584	0.000	80.756	-0.000	71.584	0.000	80.760	43.555	0.603	MWD+IFR1+MS
18400.000	90.000	179.928	10079.000	72.309	0.000	81.546	-0.000	72.309	0.000	81.550	43.600	0.601	MWD+IFR1+MS
18500.000	90.000	179.928	10079.000	73.036	0.000	82.339	-0.000	73.036	0.000	82.343	43.645	0.599	MWD+IFR1+MS
18600.000	90.000	179.928	10079.000	73.764	0.000	83.133	-0.000	73.764	0.000	83.137	43.690	0.597	MWD+IFR1+MS
18700.000	90.000	179.928	10079.000	74.493	0.000	83.928	-0.000	74.493	0.000	83.932	43.736	0.595	MWD+IFR1+MS
18800.000	90.000	179.928	10079.000	75.223	0.000	84.726	-0.000	75.223	0.000	84.730	43.782	0.592	MWD+IFR1+MS
18900.000	90.000	179.928	10079.000	75.954	0.000	85.525	-0.000	75.954	0.000	85.529	43.829	0.590	MWD+IFR1+MS
19000.000	90.000	179.928	10079.000	76.686	0.000	86.325	-0.000	76.686	0.000	86.330	43.876	0.588	MWD+IFR1+MS
19100.000	90.000	179.928	10079.000	77.419	0.000	87.128	-0.000	77.419	0.000	87.132	43.923	0.585	MWD+IFR1+MS

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19200.000	90.000	179.928	10079.000	78.154	0.000	87.931	-0.000	78.154	0.000	0.000	87.936	43.972	0.583	MWD+IFR1+MS
19300.000	90.000	179.928	10079.000	78.889	0.000	88.737	-0.000	78.889	0.000	0.000	88.741	44.020	0.580	MWD+IFR1+MS
19400.000	90.000	179.928	10079.000	79.625	0.000	89.543	-0.000	79.625	0.000	0.000	89.548	44.069	0.577	MWD+IFR1+MS
19500.000	90.000	179.928	10079.000	80.362	0.000	90.351	-0.000	80.362	0.000	0.000	90.356	44.119	0.575	MWD+IFR1+MS
19600.000	90.000	179.928	10079.000	81.100	0.000	91.160	-0.000	81.100	0.000	0.000	91.165	44.169	0.572	MWD+IFR1+MS
19700.000	90.000	179.928	10079.000	81.839	0.000	91.971	-0.000	81.839	0.000	0.000	91.976	44.219	0.569	MWD+IFR1+MS
19800.000	90.000	179.928	10079.000	82.579	0.000	92.783	-0.000	82.579	0.000	0.000	92.788	44.270	0.567	MWD+IFR1+MS
19900.000	90.000	179.928	10079.000	83.320	0.000	93.596	-0.000	83.320	0.000	0.000	93.601	44.322	0.564	MWD+IFR1+MS
20000.000	90.000	179.928	10079.000	84.061	0.000	94.411	-0.000	84.061	0.000	0.000	94.415	44.373	0.561	MWD+IFR1+MS
20100.000	90.000	179.928	10079.000	84.803	0.000	95.226	-0.000	84.803	0.000	0.000	95.231	44.426	0.558	MWD+IFR1+MS
20200.000	90.000	179.928	10079.000	85.546	0.000	96.043	-0.000	85.546	0.000	0.000	96.047	44.479	0.555	MWD+IFR1+MS
20300.000	90.000	179.928	10079.000	86.290	0.000	96.861	-0.000	86.290	0.000	0.000	96.865	44.532	0.553	MWD+IFR1+MS
20400.000	90.000	179.928	10079.000	87.034	0.000	97.680	-0.000	87.034	0.000	0.000	97.684	44.585	0.550	MWD+IFR1+MS
20500.000	90.000	179.928	10079.000	87.779	0.000	98.500	-0.000	87.779	0.000	0.000	98.504	44.640	0.547	MWD+IFR1+MS
20600.000	90.000	179.928	10079.000	88.525	0.000	99.321	-0.000	88.525	0.000	0.000	99.325	44.694	0.544	MWD+IFR1+MS
20700.000	90.000	179.928	10079.000	89.271	0.000	100.143	-0.000	89.271	0.000	0.000	100.148	44.749	0.541	MWD+IFR1+MS
20800.000	90.000	179.928	10079.000	90.018	0.000	100.966	-0.000	90.018	0.000	0.000	100.971	44.805	0.538	MWD+IFR1+MS
20900.000	90.000	179.928	10079.000	90.766	0.000	101.790	-0.000	90.766	0.000	0.000	101.795	44.860	0.535	MWD+IFR1+MS
21000.000	90.000	179.928	10079.000	91.514	0.000	102.615	-0.000	91.514	0.000	0.000	102.620	44.917	0.533	MWD+IFR1+MS
21100.000	90.000	179.928	10079.000	92.263	0.000	103.441	-0.000	92.263	0.000	0.000	103.446	44.974	0.530	MWD+IFR1+MS
21200.000	90.000	179.928	10079.000	93.013	0.000	104.268	-0.000	93.013	0.000	0.000	104.272	45.031	0.527	MWD+IFR1+MS
21300.000	90.000	179.928	10079.000	93.763	0.000	105.095	-0.000	93.763	0.000	0.000	105.100	45.088	0.524	MWD+IFR1+MS
21400.000	90.000	179.928	10079.000	94.514	0.000	105.924	-0.000	94.514	0.000	0.000	105.929	45.147	0.521	MWD+IFR1+MS
21500.000	90.000	179.928	10079.000	95.265	0.000	106.753	-0.000	95.265	0.000	0.000	106.758	45.205	0.518	MWD+IFR1+MS
21600.000	90.000	179.928	10079.000	96.017	0.000	107.584	-0.000	96.017	0.000	0.000	107.588	45.264	0.515	MWD+IFR1+MS
21700.000	90.000	179.928	10079.000	96.769	0.000	108.415	-0.000	96.769	0.000	0.000	108.419	45.323	0.513	MWD+IFR1+MS
21800.000	90.000	179.928	10079.000	97.522	0.000	109.246	-0.000	97.522	0.000	0.000	109.251	45.383	0.510	MWD+IFR1+MS
21900.000	90.000	179.928	10079.000	98.275	0.000	110.079	-0.000	98.275	0.000	0.000	110.083	45.444	0.507	MWD+IFR1+MS
22000.000	90.000	179.928	10079.000	99.029	0.000	110.912	-0.000	99.029	0.000	0.000	110.917	45.504	0.504	MWD+IFR1+MS
22100.000	90.000	179.928	10079.000	99.783	0.000	111.746	-0.000	99.783	0.000	0.000	111.751	45.565	0.502	MWD+IFR1+MS
22200.000	90.000	179.928	10079.000	100.538	0.000	112.581	-0.000	100.538	0.000	0.000	112.586	45.627	0.499	MWD+IFR1+MS
22300.000	90.000	179.928	10079.000	101.293	0.000	113.416	-0.000	101.293	0.000	0.000	113.421	45.689	0.496	MWD+IFR1+MS
22400.000	90.000	179.928	10079.000	102.049	0.000	114.252	-0.000	102.049	0.000	0.000	114.257	45.751	0.493	MWD+IFR1+MS

22500.000	90.000	179.928	10079.000	102.805	0.000	115.089	-0.000	102.805	0.000	0.000	115.094	45.814	0.491	MWD+IFR1+MS
22600.000	90.000	179.928	10079.000	103.561	0.000	115.927	-0.000	103.561	0.000	0.000	115.931	45.877	0.488	MWD+IFR1+MS
22700.000	90.000	179.928	10079.000	104.318	0.000	116.765	-0.000	104.318	0.000	0.000	116.769	45.941	0.485	MWD+IFR1+MS
22800.000	90.000	179.928	10079.000	105.075	0.000	117.603	-0.000	105.075	0.000	0.000	117.608	46.005	0.483	MWD+IFR1+MS
22900.000	90.000	179.928	10079.000	105.833	0.000	118.443	-0.000	105.833	0.000	0.000	118.447	46.069	0.480	MWD+IFR1+MS
23000.000	90.000	179.928	10079.000	106.591	0.000	119.283	-0.000	106.591	0.000	0.000	119.287	46.134	0.477	MWD+IFR1+MS
23100.000	90.000	179.928	10079.000	107.350	0.000	120.123	-0.000	107.350	0.000	0.000	120.128	46.199	0.475	MWD+IFR1+MS
23200.000	90.000	179.928	10079.000	108.109	0.000	120.964	-0.000	108.109	0.000	0.000	120.969	46.265	0.472	MWD+IFR1+MS
23300.000	90.000	179.928	10079.000	108.868	0.000	121.806	-0.000	108.868	0.000	0.000	121.810	46.331	0.469	MWD+IFR1+MS
23400.000	90.000	179.928	10079.000	109.627	0.000	122.648	-0.000	109.627	0.000	0.000	122.653	46.397	0.467	MWD+IFR1+MS
23500.000	90.000	179.928	10079.000	110.387	0.000	123.491	-0.000	110.387	0.000	0.000	123.495	46.464	0.464	MWD+IFR1+MS
23602.670	90.000	179.928	10079.000	111.168	0.000	124.357	-0.000	111.168	0.000	0.000	124.361	46.533	0.462	MWD+IFR1+MS
23692.665	90.000	179.928	10079.000	111.852	0.000	125.116	-0.000	111.852	0.000	0.000	125.120	46.594	0.459	MWD+IFR1+MS

Plan Targets

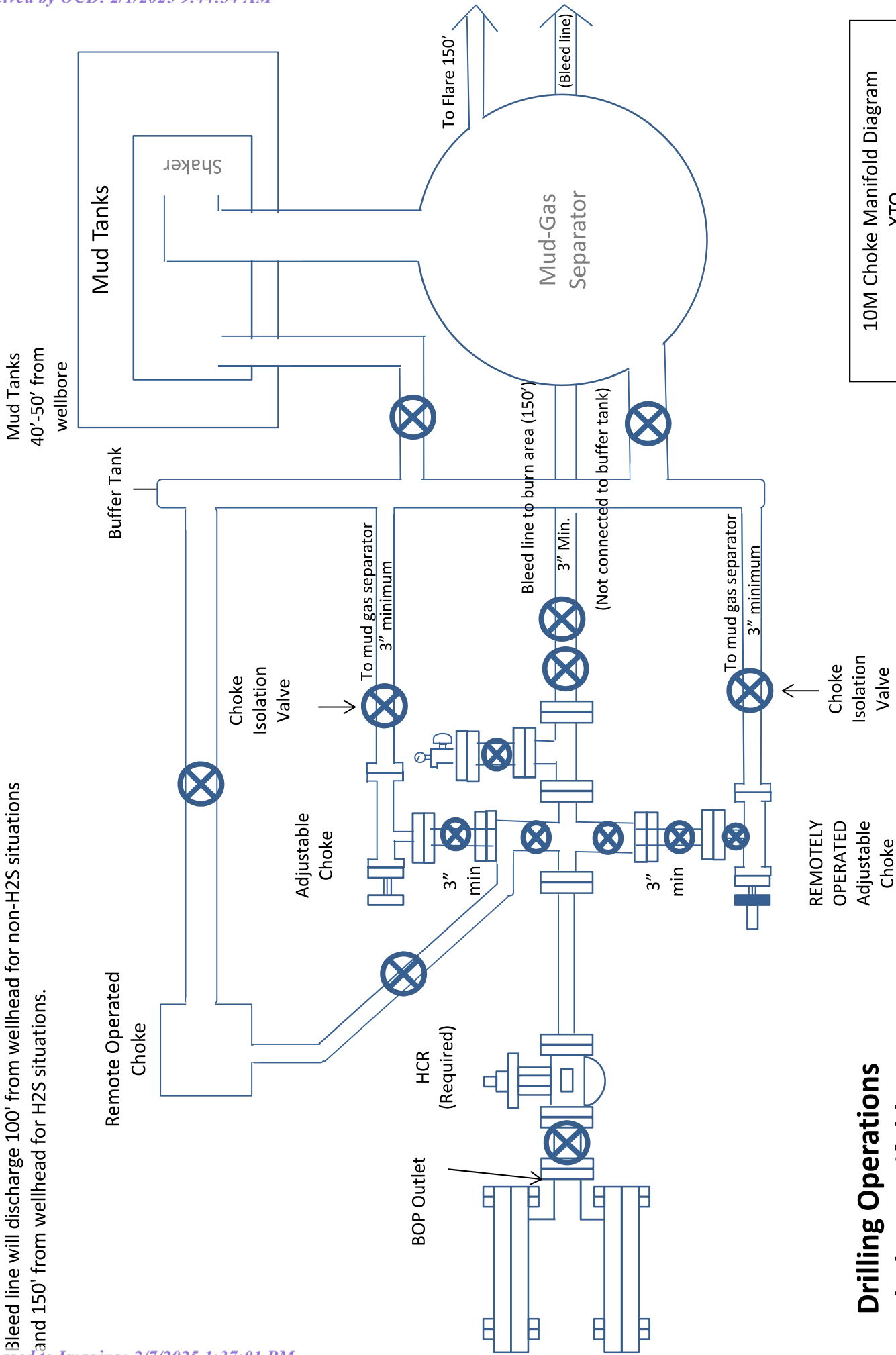
Poker Lake Unit 30 BS 309H

Target Name

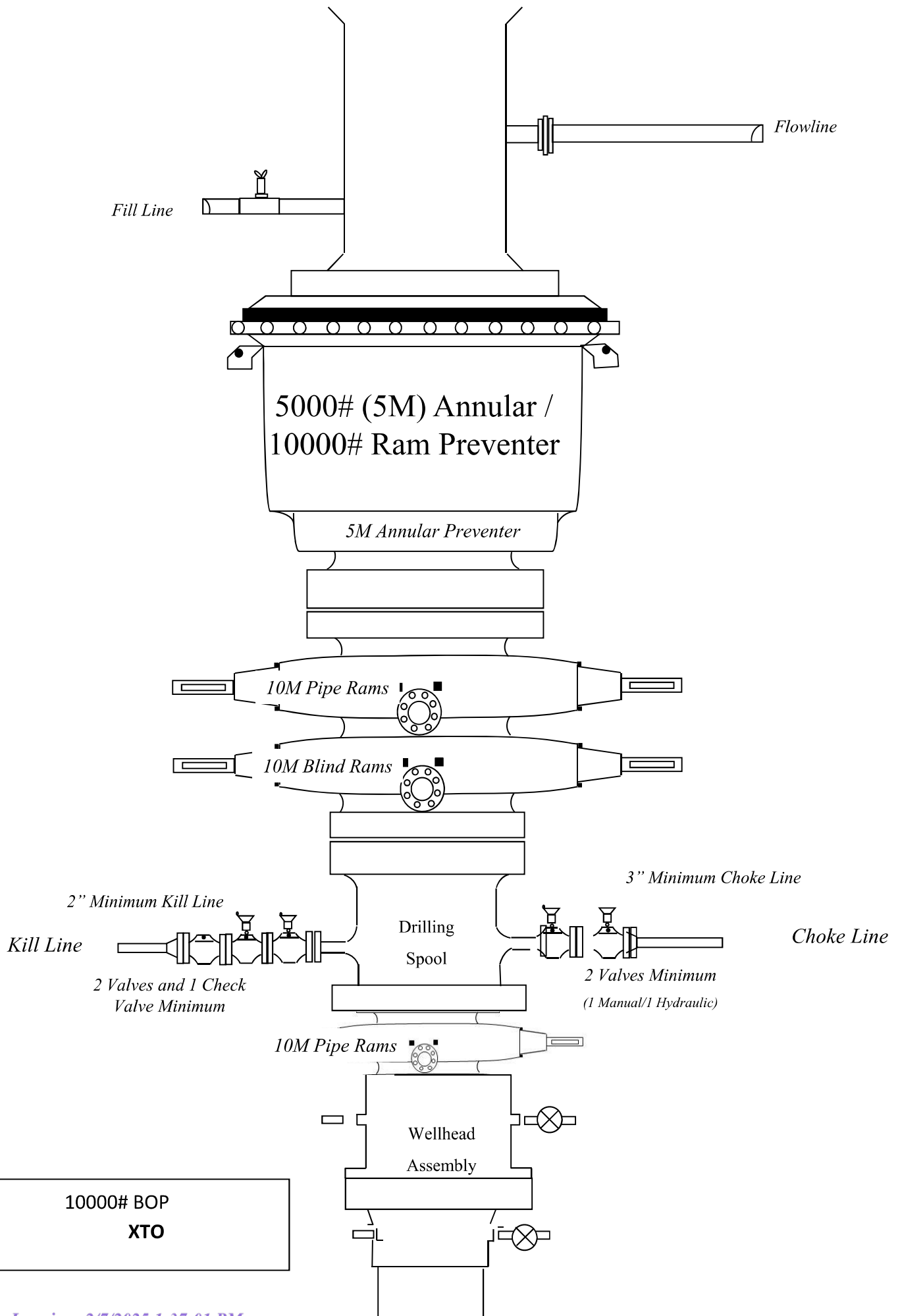
FTP 4
LTP 4
BHL 4

Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
10507.76	400790.50	660340.80	6681.00	CIRCLE
23602.67	387695.70	660357.20	6681.00	CIRCLE
23692.95	387605.70	660357.60	6681.00	CIRCLE

Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



**Drilling Operations
Choke Manifold
10M Service**





TenarisHydril Wedge 461®



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

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		
		Body Yield Strength	641 x1000 lb
		Min. Internal Yield Pressure	12,640 psi
		SMYS	110,000 psi
		Collapse Pressure	11,100 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.300 in.	Tension Efficiency	100 %	Minimum	17,000 ft-lb
Coupling Length	7.714 in.	Joint Yield Strength	641 x1000 lb	Optimum	18,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	12,640 psi	Maximum	21,600 ft-lb
Make-up Loss	3.775 in.	Compression Efficiency	100 %		
Threads per inch	3.40	Compression Strength	641 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	92 °/100 ft	Operating Torque	39,000 ft-lb
		External Pressure Capacity	11,100 psi	Yield Torque	46,000 ft-lb
		Coupling Face Load	290,000 lb		
				Buck-On	
				Minimum	21,600 ft-lb
				Maximum	23,100 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.415 (23.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

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

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TenarisHydril Wedge 511



Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		
		Body Yield Strength	683 x1000 lb
		Min. Internal Yield Pressure	6890 psi
		SMYS	80,000 psi
		Collapse Pressure	5900 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	Tension Efficiency	61.10 %	Minimum	5900 ft-lb
Connection ID	6.787 in.	Joint Yield Strength	417 x1000 lb	Optimum	7100 ft-lb
Make-up Loss	3.704 in.	Internal Pressure Capacity	6890 psi	Maximum	10,300 ft-lb
Threads per inch	3.28	Compression Efficiency	73.80 %		
Connection OD Option	Regular	Compression Strength	504 x1000 lb	Operation Limit Torques	
		Max. Allowable Bending	29.33 °/100 ft	Operating Torque	35,000 ft-lb
		External Pressure Capacity	5900 psi	Yield Torque	52,000 ft-lb

Notes

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**BLACK GOLD®**

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NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

CUSTOMER: NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#: 15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N: IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION: RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES

SALES ORDER #: 529480
QUANTITY: 1
SERIAL #: 74621 H3-012524-1

SIGNATURE: _____

F. Cismos

TITLE: _____

QUALITY ASSURANCE

DATE: _____

1/25/2024



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

Fitting 1: 3.0 x 4-1/16 10K

Part number:

Description:

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

Part number:

Description:

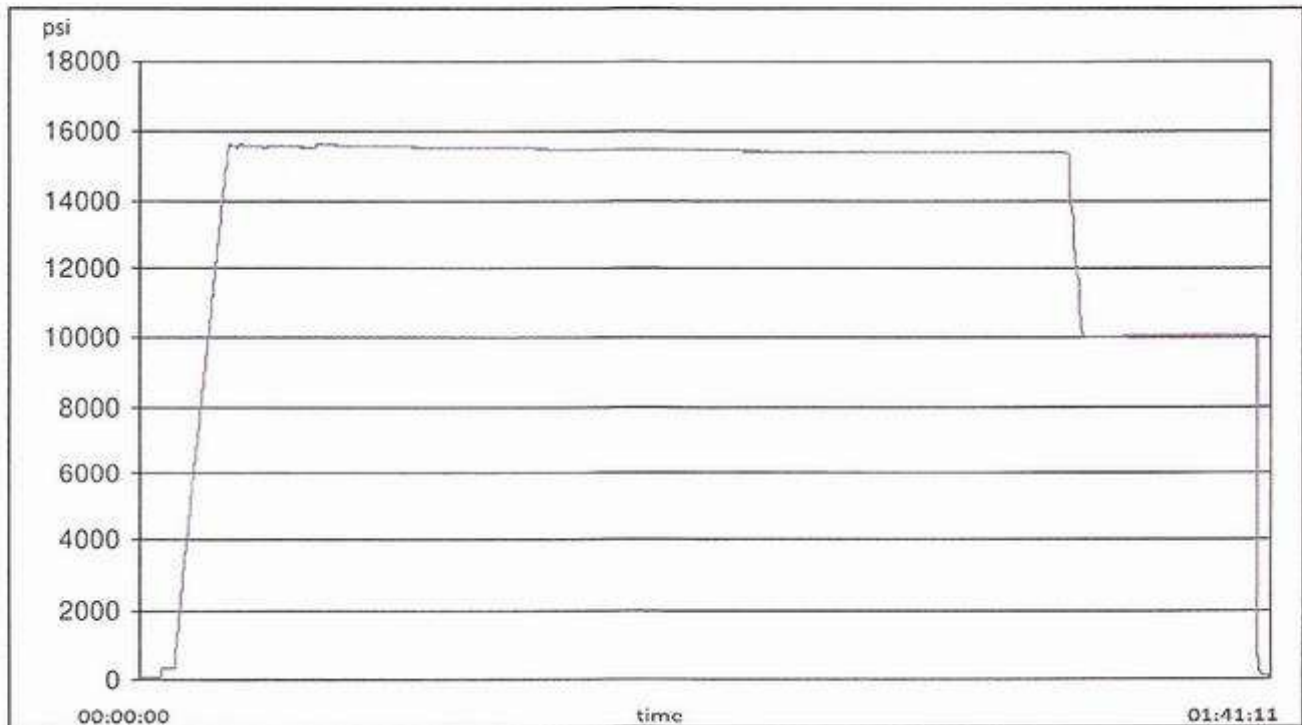
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

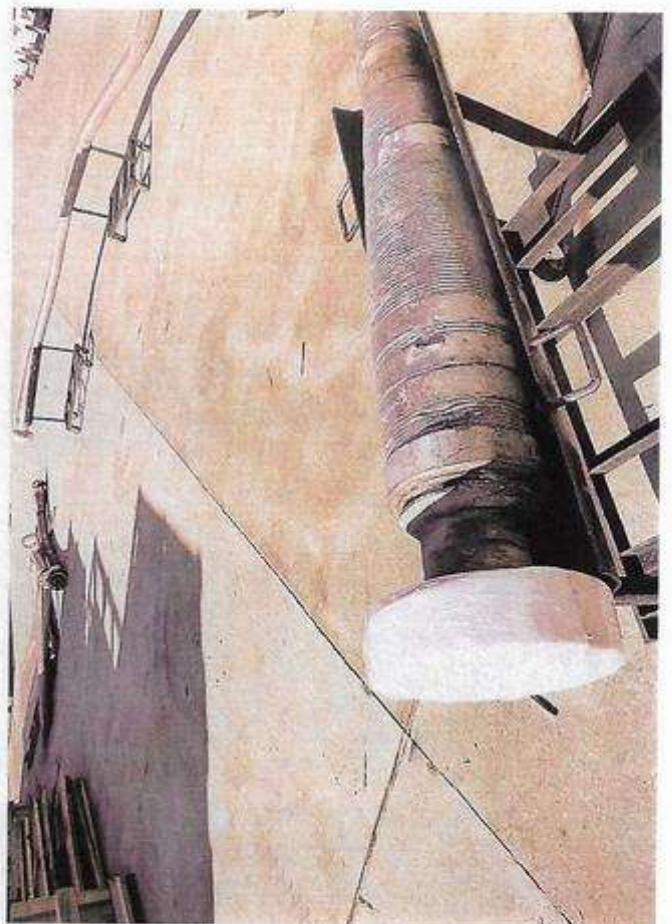
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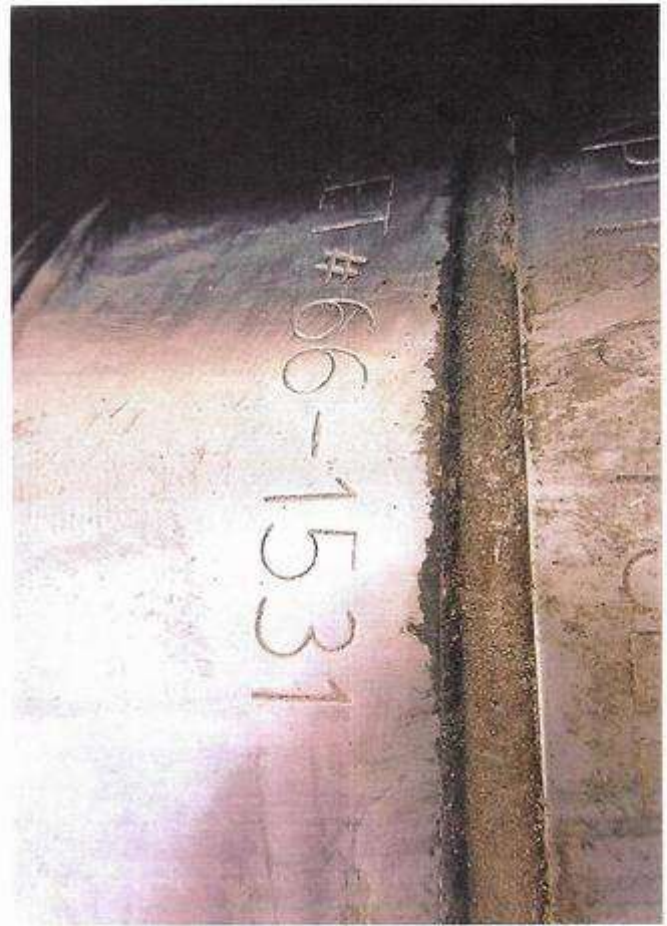
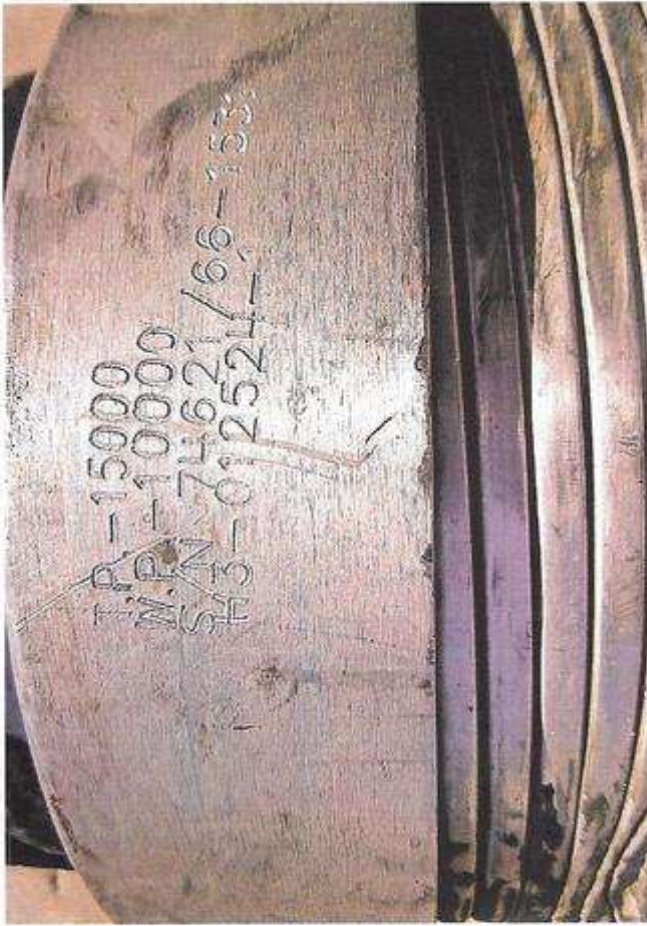
TEST REPORT

GAUGE TRACEABILITY

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

Comment





QC APPROVED BY POSSIBILITY™

Gates

I.D.: 3" LENGTH: 45'

GRADE: 160 Lb. END FITTING: 1/4" 10K Flange ELB

H#: H3-012524-1

CUST NAME: Nakors DOC#: 528480

NOTES: 15582803 S/N: 74621 H355846-53

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

Description of Operations:

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

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 427306

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 427306
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	2/7/2025