

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

Well Name: POKER LAKE UNIT 30 BS	Well Location: T25S / R31E / SEC 30 / LOT 2 / 32.101829 / -103.824356	County or Parish/State: EDDY / NM
Well Number: 110H	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: 2830596

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/07/2025

Time Sundry Submitted: 04:15

Date proposed operation will begin: 01/21/2025

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 30-015-55952 FROM: TO: KOP: 2435' FNL & 515' FWL OF SECTION 30-T25S-R31E 2044' FNL & 2004' FWL OF SECTION 30-T25S-R31E FTP: 2435' FNL & 1210' FWL OF SECTION 30-T25S-R31E 2556' FSL & 2000' FWL OF SECTION 30-T25S-R31E LTP: 100' FSL & 1210' FWL OF SECTION 6-T26S-R31E 100' FSL & 2000' FWL OF SECTION 31-T25S-R31E BHL: 50' FSL & 1210' FWL OF SECTION 6-T26S-R31E 10' FSL & 2000' FWL OF SECTION 31-T25S-R31E The proposed total depth is changing from 23592' MD; 9736' TVD to 18553' MD; 10053' TVD. Pool Code is changing FROM 97975 / WC-015 G-06 S243119C; Bone Spring TO 97814 / Wildcat G-015 S263001O; 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_110H_20250107161434.pdf

Well Name: POKER LAKE UNIT 30 BS **Well Location:** T25S / R31E / SEC 30 / LOT 2 / 32.101829 / -103.824356 **County or Parish/State:** EDDY / NM

Well Number: 110H **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_110H_COA_20250131112231.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 04:14 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 <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. 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/110H
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 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 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 30-015-55952

FROM: TO:

KOP: 2435' FNL & 515' FWL OF SECTION 30-T25S-R31E 2044 FNL & 2004 FWL OF SECTION 30-T25S-R31E
FTP: 2435' FNL & 1210' FWL OF SECTION 30-T25S-R31E 2556' FSL & 2000' FWL OF SECTION 30-T25S-R31E
LTP: 100' FSL & 1210' FWL OF SECTION 6-T26S-R31E 100' FSL & 2000' FWL OF SECTION 31-T25S-R31E
BHL: 50' FSL & 1210' FWL OF SECTION 6-T26S-R31E 10' FSL & 2000' FWL OF SECTION 31-T25S-R31E

The proposed total depth is changing from 23592 MD; 9736 TVD to 18553 MD; 10053 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	Title Petroleum Engineer	Date 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.	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 97814 / Wildcat G-015 S263001O; 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: LOT 2 / 2435 FNL / 515 FWL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101829 / LONG: -103.824356 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 2 / 2435 FNL / 1210 FWL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101833 / LONG: -103.822112 (TVD: 9736 feet, MD: 10200 feet)

BHL: LOT 4 / 50 FSL / 1210 FWL / TWSP: 26S / RANGE: 31E / SECTION: 6 / LAT: 32.064794 / LONG: -103.82226 (TVD: 9736 feet, MD: 23592 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMLC061634B
LOCATION:	Sec. 30, T.25 S, R 31 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 30 BS 110H
SURFACE HOLE FOOTAGE:	2435'N & 515'/W
BOTTOM HOLE FOOTAGE:	10'/S & 2000'/W

*Changes approved through engineering via **Sundry 2830596** on 1-31-2025. 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 7801'**.
- 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](mailto: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 97814	Pool Name Wildcat G-015 S263001O; Bone Spring	
Property Code	Property Name POKER LAKE UNIT 30 BS	Well Number 110H	
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,371'	
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	Section 30	Township 25 S	Range 31 E	Lot 2	Ft. from N/S 2,435' FNL	Ft. from E/W 515' FWL	Latitude 32.101829	Longitude -103.824356	County EDDY

Bottom Hole Location									
UL N	Section 31	Township 25 S	Range 31 E	Lot	Ft. from N/S 10' FSL	Ft. from E/W 2,000' FWL	Latitude 32.079339	Longitude -103.819714	County EDDY



Dedicated Acres 240	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 F	Section 30	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,044' FNL	Ft. from E/W 2,004' FWL	Latitude 32.102914	Longitude -103.819549	County EDDY

First Take Point (FTP)									
UL K	Section 30	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,556' FSL	Ft. from E/W 2,000' FWL	Latitude 32.100945	Longitude -103.819563	County EDDY

Last Take Point (LTP)									
UL N	Section 31	Township 25 S	Range 31 E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 2,000' FWL	Latitude 32.079586	Longitude -103.819713	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: 3,371'
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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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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

LINE TABLE

LINE	AZIMUTH	LENGTH
L1	74° 53'13"	1,539.95'
L2	180° 04'37"	716.27'
L3	180° 04'03"	7,859.94'

LOT ACREAGE TABLE

SECTION 30

LOT 2 - 40.27 ACRES

LOT 3 - 40.13 ACRES

LOT 4 - 39.97 ACRES

SECTION 31

LOT 1 - 39.91 ACRES

LOT 2 - 39.94 ACRES

LOT 3 - 39.96 ACRES

LOT 4 - 39.99 ACRES

COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	401,154.1	N	Y =	393,069.4	N
X =	698,940.5	E	X =	700,416.9	E
LAT. =	32.101829	°N	LAT. =	32.079586	°N
LONG. =	103.824356	°W	LONG. =	103.819713	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	401,555.6	N	Y =	392,979.4	N
X =	700,427.2	E	X =	700,417.0	E
LAT. =	32.102914	°N	LAT. =	32.079339	°N
LONG. =	103.819549	°W	LONG. =	103.819714	°W
FTP (NAD 83 NME)					
Y =	400,839.4	N			
X =	700,426.3	E			
LAT. =	32.100945	°N			
LONG. =	103.819563	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	401,096.2	N	Y =	393,011.7	N
X =	657,755.0	E	X =	659,231.1	E
LAT. =	32.101705	°N	LAT. =	32.079462	°N
LONG. =	103.823877	°W	LONG. =	103.819235	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	401,497.7	N	Y =	392,921.7	N
X =	659,241.7	E	X =	659,231.2	E
LAT. =	32.102789	°N	LAT. =	32.079214	°N
LONG. =	103.819070	°W	LONG. =	103.819236	°W
FTP (NAD 27 NME)					
Y =	400,781.5	N			
X =	659,240.8	E			
LAT. =	32.100820	°N			
LONG. =	103.819084	°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 =	400,933.8	N	E - X =	699,752.5 E
F - Y =	398,278.5	N	F - X =	699,727.5 E
G - Y =	395,624.6	N	G - X =	699,742.6 E
H - Y =	392,964.1	N	H - X =	699,750.1 E
CORNER COORDINATES (NAD27 NME)				
A - Y =	400,886.8	N	A - X =	659,885.1 E
B - Y =	398,230.2	N	B - X =	659,872.7 E
C - Y =	395,575.9	N	C - X =	659,885.4 E
D - Y =	392,917.0	N	D - X =	659,898.0 E
E - Y =	400,875.9	N	E - X =	658,567.0 E
F - Y =	398,220.6	N	F - X =	658,541.0 E
G - Y =	395,524.6	N	G - X =	658,541.0 E
H - Y =	392,869.1	N	H - X =	658,541.0 E

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

XTO Energy Inc.
PLU 30 BS 110H
Projected TD: 18553' MD / 10053' TVD
SHL: 2435' FNL & 515' FWL , Section 30, T25S, R31E
BHL: 10' FSL & 2000' FWL , Section 31, T25S, 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	1098'	Water
Salado	1603'	Water
Base of Salt	3904'	Water
Delaware	4114'	Water/Oil/Gas
Cherry Canyon	5069'	Water/Oil/Gas
Brushy Canyon	6734'	Water/Oil/Gas
Basal Brushy Canyon	7801'	Water/Oil/Gas
Bone Spring Lm.	8019'	Water/Oil/Gas
Avalon	8165'	Water/Oil/Gas
Lower Avalon	8499'	Water/Oil/Gas
1st Bone Spring Lime	8845'	Water/Oil/Gas
1st Bone Spring Sand	9009'	Water/Oil/Gas
2nd Bone Spring Shale	9301'	Water/Oil/Gas
2nd Bone Spring Lime	9452'	Water/Oil/Gas
2nd Bone Spring Sand	9634'	Water/Oil/Gas
2nd Bone Spring T/B Carb	9977'	Water/Oil/Gas
2nd Bone Spring Sand (Lwr)	10053'	Water/Oil/Gas
2nd BS Sand Lower Landing	10053'	Water/Oil/Gas
3rd Bone Spring Lime	10182'	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 1578' 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' - 1578'	1570'	9-5/8"	40	J55	BTC	New	8.16	3.76	4.47
8.75	0' - 9368'	8872'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.25	1.45	2.29
6.75	0' - 18553'	10053'	5-1/2"	20	P110-CY	Tenaris Wedge 461	New	1.18	2.55	1.95

Section 3 Summary:

The planned kick off point is located at: 9568' MD / 9337' 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	379	12.4	2.11	0	1578	100%	Surface Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	1278	1578	100%	Surface Class C Tail Cement
Intermediate 1	Lead				0			
Intermediate 1	Tail	147	14.8	1.45	7801	9368	35%	Intermediate Class C Tail Cement
Production 1	Lead							
Production 1	Tail	730	13.2	1.44	8868	18553	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	811	14.8	1.45	0 - 7801'	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' – 1578'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
1578' – 9368'	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.
9368' – 18553'	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 165F to 185F. 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 30BS 110H

Measured Depth:	18552.93 ft	Site:	A
TVD RKB:	10053.00 ft	Slot:	Poker Lake Unit 30BS 110H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	401096.20 ft		
Easting:	657755.00 ft		
RKB:	3403.00 ft		
Ground Level:	3371.00 ft		
North Reference:	Grid		
Convergence Angle:	0.27 Deg		

Plan Sections									
Poker Lake Unit 30BS 110H									
Measured		TVD		Build		Turn		Dogleg	
Depth	Inclination	Azimuth	RKB	X Offset	Y Offset	Rate	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
2010.34	18.21	74.89	1995.10	138.47	37.39	2.00	0.00	2.00	2.00
6020.94	18.21	74.89	5804.90	1348.23	364.10	0.00	0.00	0.00	0.00
6931.28	0.00	0.00	6700.00	1486.69	401.50	-2.00	0.00	2.00	2.00
9568.08	0.00	0.00	9336.80	1486.69	401.50	0.00	0.00	0.00	0.00
10693.08	90.00	180.07	10053.00	1485.80	-314.70	8.00	0.00	8.00	FTP 3
18462.89	90.00	180.07	10053.00	1476.10	-8084.50	0.00	0.00	0.00	LTP 3
18552.93	90.00	180.07	10053.00	1475.99	-8174.54	0.00	0.00	0.00	BHL 3

Position Uncertainty									
Poker Lake Unit 30BS 110H									
Measured		TVD		Lateral		Vertical		Magnitude	
		Highside		Semi-major		Semi-minor		Semi-minor	

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (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	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	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	0.000	1.259	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	0.000	1.698	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	0.000	2.108	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	0.000	2.503	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	0.000	2.888	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	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.486	0.000	0.000	3.642	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	0.000	4.014	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	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.635	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	74.887	1199.980	5.001	0.000	4.517	0.000	2.691	0.000	0.000	5.195	4.295	-43.730	MWD+IFR1+MS
1300.000	4.000	74.887	1299.838	5.775	0.000	4.886	0.000	2.751	0.000	0.000	5.826	4.835	-27.623	MWD+IFR1+MS
1400.000	6.000	74.887	1399.452	6.470	0.000	5.255	0.000	2.817	0.000	0.000	6.493	5.250	-18.597	MWD+IFR1+MS
1500.000	8.000	74.887	1498.702	7.107	0.000	5.625	0.000	2.890	0.000	0.000	7.141	5.624	-13.780	MWD+IFR1+MS
1600.000	10.000	74.887	1597.465	7.700	0.000	5.996	0.000	2.972	0.000	0.000	7.758	5.985	-10.939	MWD+IFR1+MS
1700.000	12.000	74.887	1695.623	8.258	0.000	6.370	0.000	3.067	0.000	0.000	8.347	6.344	-9.095	MWD+IFR1+MS
1800.000	14.000	74.887	1793.055	8.785	0.000	6.747	0.000	3.175	0.000	0.000	8.909	6.706	-7.804	MWD+IFR1+MS
1900.000	16.000	74.887	1889.643	9.288	0.000	7.130	0.000	3.298	0.000	0.000	9.449	7.073	-6.843	MWD+IFR1+MS
2000.000	18.000	74.887	1985.268	9.769	0.000	7.521	0.000	3.438	0.000	0.000	9.969	7.448	-6.089	MWD+IFR1+MS
2010.341	18.207	74.887	1995.097	9.789	0.000	7.559	0.000	3.439	0.000	0.000	9.998	7.487	-6.103	MWD+IFR1+MS
2100.000	18.207	74.887	2080.268	10.032	0.000	7.899	0.000	3.522	0.000	0.000	10.229	7.831	-6.029	MWD+IFR1+MS
2200.000	18.207	74.887	2175.261	10.320	0.000	8.300	0.000	3.623	0.000	0.000	10.506	8.231	-5.659	MWD+IFR1+MS
2300.000	18.207	74.887	2270.255	10.620	0.000	8.708	0.000	3.730	0.000	0.000	10.792	8.637	-5.232	MWD+IFR1+MS
2400.000	18.207	74.887	2365.248	10.927	0.000	9.119	0.000	3.840	0.000	0.000	11.087	9.047	-4.788	MWD+IFR1+MS
2500.000	18.207	74.887	2460.242	11.242	0.000	9.534	0.000	3.955	0.000	0.000	11.387	9.460	-4.324	MWD+IFR1+MS
2600.000	18.207	74.887	2555.235	11.564	0.000	9.951	0.000	4.073	0.000	0.000	11.694	9.875	-3.835	MWD+IFR1+MS
2700.000	18.207	74.887	2650.229	11.891	0.000	10.371	0.000	4.194	0.000	0.000	12.007	10.293	-3.317	MWD+IFR1+MS
2800.000	18.207	74.887	2745.222	12.225	0.000	10.792	0.000	4.319	0.000	0.000	12.325	10.713	-2.765	MWD+IFR1+MS
2900.000	18.207	74.887	2840.216	12.564	0.000	11.216	0.000	4.447	0.000	0.000	12.648	11.135	-2.173	MWD+IFR1+MS

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3000.000	18.207	74.887	2935.209	12.908	0.000	11.641	0.000	4.577	0.000	0.000	12.976	11.559	-1.532	MWD+IFR1+MS
3100.000	18.207	74.887	3030.203	13.256	0.000	12.068	0.000	4.710	0.000	0.000	13.308	11.984	-0.835	MWD+IFR1+MS
3200.000	18.207	74.887	3125.196	13.608	0.000	12.497	0.000	4.846	0.000	0.000	13.644	12.410	-0.070	MWD+IFR1+MS
3300.000	18.207	74.887	3220.190	13.964	0.000	12.926	0.000	4.983	0.000	0.000	13.984	12.837	0.777	MWD+IFR1+MS
3400.000	18.207	74.887	3315.183	14.324	0.000	13.357	0.000	5.123	0.000	0.000	14.328	13.264	1.722	MWD+IFR1+MS
3500.000	18.207	74.887	3410.177	14.687	0.000	13.788	0.000	5.266	0.000	0.000	14.676	13.692	2.785	MWD+IFR1+MS
3600.000	18.207	74.887	3505.170	15.053	0.000	14.221	0.000	5.410	0.000	0.000	15.027	14.121	3.993	MWD+IFR1+MS
3700.000	18.207	74.887	3600.164	15.422	0.000	14.654	0.000	5.556	0.000	0.000	15.381	14.550	5.377	MWD+IFR1+MS
3800.000	18.207	74.887	3695.157	15.794	0.000	15.088	0.000	5.703	0.000	0.000	15.738	14.979	6.979	MWD+IFR1+MS
3900.000	18.207	74.887	3790.151	16.168	0.000	15.523	0.000	5.853	0.000	0.000	16.100	15.407	8.848	MWD+IFR1+MS
4000.000	18.207	74.887	3885.144	16.544	0.000	15.959	0.000	6.004	0.000	0.000	16.464	15.834	11.045	MWD+IFR1+MS
4100.000	18.207	74.887	3980.138	16.922	0.000	16.395	0.000	6.157	0.000	0.000	16.833	16.260	13.640	MWD+IFR1+MS
4200.000	18.207	74.887	4075.131	17.303	0.000	16.831	0.000	6.312	0.000	0.000	17.206	16.685	16.709	MWD+IFR1+MS
4300.000	18.207	74.887	4170.125	17.685	0.000	17.268	0.000	6.468	0.000	0.000	17.584	17.106	20.314	MWD+IFR1+MS
4400.000	18.207	74.887	4265.118	18.069	0.000	17.706	0.000	6.626	0.000	0.000	17.968	17.524	24.475	MWD+IFR1+MS
4500.000	18.207	74.887	4360.112	18.455	0.000	18.144	0.000	6.785	0.000	0.000	18.358	17.938	29.131	MWD+IFR1+MS
4600.000	18.207	74.887	4455.105	18.842	0.000	18.582	0.000	6.946	0.000	0.000	18.756	18.347	34.110	MWD+IFR1+MS
4700.000	18.207	74.887	4550.099	19.230	0.000	19.021	0.000	7.108	0.000	0.000	19.160	18.750	39.143	MWD+IFR1+MS
4800.000	18.207	74.887	4645.092	19.620	0.000	19.460	0.000	7.272	0.000	0.000	19.571	19.149	43.946	MWD+IFR1+MS
4900.000	18.207	74.887	4740.086	20.012	0.000	19.900	0.000	7.438	0.000	0.000	19.988	19.543	48.304	MWD+IFR1+MS
5000.000	18.207	74.887	4835.079	20.404	0.000	20.339	0.000	7.605	0.000	0.000	20.410	19.933	52.112	MWD+IFR1+MS
5100.000	18.207	74.887	4930.072	20.798	0.000	20.779	0.000	7.773	0.000	0.000	20.836	20.321	55.367	MWD+IFR1+MS
5200.000	18.207	74.887	5025.066	21.192	0.000	21.220	0.000	7.943	0.000	0.000	21.266	20.707	58.118	MWD+IFR1+MS
5300.000	18.207	74.887	5120.059	21.588	0.000	21.660	0.000	8.114	0.000	0.000	21.697	21.092	60.437	MWD+IFR1+MS
5400.000	18.207	74.887	5215.053	21.984	0.000	22.101	0.000	8.287	0.000	0.000	22.131	21.476	62.398	MWD+IFR1+MS
5500.000	18.207	74.887	5310.046	22.382	0.000	22.542	0.000	8.462	0.000	0.000	22.566	21.860	64.065	MWD+IFR1+MS
5600.000	18.207	74.887	5405.040	22.780	0.000	22.983	0.000	8.638	0.000	0.000	23.003	22.243	65.493	MWD+IFR1+MS
5700.000	18.207	74.887	5500.033	23.180	0.000	23.425	0.000	8.815	0.000	0.000	23.441	22.627	66.725	MWD+IFR1+MS
5800.000	18.207	74.887	5595.027	23.580	0.000	23.866	0.000	8.994	0.000	0.000	23.879	23.011	67.797	MWD+IFR1+MS
5900.000	18.207	74.887	5690.020	23.980	0.000	24.308	0.000	9.174	0.000	0.000	24.318	23.395	68.737	MWD+IFR1+MS
6000.000	18.207	74.887	5785.014	24.382	0.000	24.750	0.000	9.356	0.000	0.000	24.758	23.779	69.567	MWD+IFR1+MS
6020.937	18.207	74.887	5804.903	24.464	0.000	24.841	0.000	9.394	0.000	0.000	24.848	23.859	69.805	MWD+IFR1+MS
6100.000	16.626	74.887	5880.339	24.822	0.000	25.181	0.000	9.540	0.000	0.000	25.187	24.167	70.408	MWD+IFR1+MS

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6200.000	14.626	74.887	5976.638	25.314	0.000	25.601	0.000	9.732	0.000	0.000	25.608	24.616	69.821	MWD+IFR1+MS
6300.000	12.626	74.887	6073.819	25.786	0.000	26.006	0.000	9.915	0.000	0.000	26.017	25.078	68.678	MWD+IFR1+MS
6400.000	10.626	74.887	6171.762	26.216	0.000	26.396	0.000	10.085	0.000	0.000	26.411	25.530	67.302	MWD+IFR1+MS
6500.000	8.626	74.887	6270.349	26.605	0.000	26.769	0.000	10.245	0.000	0.000	26.790	25.972	65.626	MWD+IFR1+MS
6600.000	6.626	74.887	6369.460	26.952	0.000	27.128	0.000	10.395	0.000	0.000	27.157	26.402	63.571	MWD+IFR1+MS
6700.000	4.626	74.887	6468.973	27.257	0.000	27.473	0.000	10.537	0.000	0.000	27.512	26.818	61.045	MWD+IFR1+MS
6800.000	2.626	74.887	6568.768	27.520	0.000	27.803	0.000	10.671	0.000	0.000	27.856	27.220	57.958	MWD+IFR1+MS
6900.000	0.626	74.887	6668.723	27.741	0.000	28.120	0.000	10.801	0.000	0.000	28.193	27.604	54.254	MWD+IFR1+MS
6931.278	0.000	0.000	6700.000	28.089	0.000	27.900	0.000	10.840	0.000	0.000	28.287	27.700	54.403	MWD+IFR1+MS
7000.000	0.000	0.000	6768.722	28.302	0.000	28.098	0.000	10.927	0.000	0.000	28.493	27.905	55.112	MWD+IFR1+MS
7100.000	0.000	0.000	6868.722	28.613	0.000	28.392	0.000	11.056	0.000	0.000	28.794	28.208	56.077	MWD+IFR1+MS
7200.000	0.000	0.000	6968.722	28.927	0.000	28.689	0.000	11.188	0.000	0.000	29.097	28.516	57.102	MWD+IFR1+MS
7300.000	0.000	0.000	7068.722	29.241	0.000	28.987	0.000	11.323	0.000	0.000	29.401	28.825	58.122	MWD+IFR1+MS
7400.000	0.000	0.000	7168.722	29.557	0.000	29.286	0.000	11.460	0.000	0.000	29.707	29.134	59.134	MWD+IFR1+MS
7500.000	0.000	0.000	7268.722	29.874	0.000	29.587	0.000	11.601	0.000	0.000	30.015	29.444	60.136	MWD+IFR1+MS
7600.000	0.000	0.000	7368.722	30.192	0.000	29.889	0.000	11.745	0.000	0.000	30.323	29.755	61.125	MWD+IFR1+MS
7700.000	0.000	0.000	7468.722	30.511	0.000	30.192	0.000	11.892	0.000	0.000	30.634	30.067	62.101	MWD+IFR1+MS
7800.000	0.000	0.000	7568.722	30.830	0.000	30.496	0.000	12.042	0.000	0.000	30.945	30.379	63.060	MWD+IFR1+MS
7900.000	0.000	0.000	7668.722	31.151	0.000	30.802	0.000	12.195	0.000	0.000	31.258	30.693	64.001	MWD+IFR1+MS
8000.000	0.000	0.000	7768.722	31.472	0.000	31.109	0.000	12.351	0.000	0.000	31.573	31.006	64.922	MWD+IFR1+MS
8100.000	0.000	0.000	7868.722	31.794	0.000	31.417	0.000	12.510	0.000	0.000	31.888	31.321	65.823	MWD+IFR1+MS
8200.000	0.000	0.000	7968.722	32.117	0.000	31.726	0.000	12.673	0.000	0.000	32.205	31.636	66.703	MWD+IFR1+MS
8300.000	0.000	0.000	8068.722	32.440	0.000	32.036	0.000	12.839	0.000	0.000	32.523	31.952	67.559	MWD+IFR1+MS
8400.000	0.000	0.000	8168.722	32.764	0.000	32.346	0.000	13.008	0.000	0.000	32.841	32.268	68.393	MWD+IFR1+MS
8500.000	0.000	0.000	8268.722	33.089	0.000	32.658	0.000	13.180	0.000	0.000	33.161	32.585	69.202	MWD+IFR1+MS
8600.000	0.000	0.000	8368.722	33.415	0.000	32.971	0.000	13.355	0.000	0.000	33.482	32.903	69.988	MWD+IFR1+MS
8700.000	0.000	0.000	8468.722	33.741	0.000	33.285	0.000	13.534	0.000	0.000	33.804	33.221	70.751	MWD+IFR1+MS
8800.000	0.000	0.000	8568.722	34.068	0.000	33.600	0.000	13.716	0.000	0.000	34.127	33.540	71.489	MWD+IFR1+MS
8900.000	0.000	0.000	8668.722	34.396	0.000	33.915	0.000	13.901	0.000	0.000	34.450	33.860	72.203	MWD+IFR1+MS
9000.000	0.000	0.000	8768.722	34.724	0.000	34.232	0.000	14.089	0.000	0.000	34.775	34.180	72.894	MWD+IFR1+MS
9100.000	0.000	0.000	8868.722	35.053	0.000	34.549	0.000	14.281	0.000	0.000	35.100	34.500	73.562	MWD+IFR1+MS
9200.000	0.000	0.000	8968.722	35.382	0.000	34.867	0.000	14.476	0.000	0.000	35.427	34.822	74.208	MWD+IFR1+MS
9300.000	0.000	0.000	9068.722	35.712	0.000	35.186	0.000	14.674	0.000	0.000	35.753	35.144	74.831	MWD+IFR1+MS

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9400.000	0.000	0.000	9168.722	36.042	0.000	35.505	0.000	14.876	0.000	0.000	36.081	35.466	75.432	MWD+IFR1+MS
9500.000	0.000	0.000	9268.722	36.373	0.000	35.825	0.000	15.081	0.000	0.000	36.409	35.789	76.013	MWD+IFR1+MS
9568.081	0.000	0.000	9336.803	36.597	0.000	36.042	0.000	15.222	0.000	0.000	36.632	36.006	76.254	MWD+IFR1+MS
9600.000	2.554	180.072	9368.712	36.602	-0.000	36.140	0.000	15.289	0.000	0.000	36.733	36.104	76.276	MWD+IFR1+MS
9700.000	10.554	180.072	9467.978	36.717	-0.000	36.430	0.000	15.523	0.000	0.000	37.488	36.417	83.837	MWD+IFR1+MS
9800.000	18.554	180.072	9564.690	36.919	-0.000	36.708	0.000	15.899	0.000	0.000	38.797	36.707	88.738	MWD+IFR1+MS
9900.000	26.554	180.072	9656.967	36.581	-0.000	36.968	0.000	16.490	0.000	0.000	39.958	36.968	90.290	MWD+IFR1+MS
10000.000	34.554	180.072	9743.013	35.773	-0.000	37.209	0.000	17.345	0.000	0.000	40.942	37.208	91.091	MWD+IFR1+MS
10100.000	42.554	180.072	9821.152	34.588	-0.000	37.430	0.000	18.475	0.000	0.000	41.740	37.427	91.654	MWD+IFR1+MS
10200.000	50.554	180.072	9889.864	33.151	-0.000	37.631	0.000	19.857	0.000	0.000	42.350	37.625	92.157	MWD+IFR1+MS
10300.000	58.554	180.072	9947.811	31.618	-0.000	37.812	0.000	21.443	0.000	0.000	42.784	37.801	92.689	MWD+IFR1+MS
10400.000	66.554	180.072	9993.865	30.178	-0.000	37.973	0.000	23.172	0.000	0.000	43.063	37.955	93.306	MWD+IFR1+MS
10500.000	74.554	180.072	10027.131	29.044	-0.000	38.114	0.000	24.979	0.000	0.000	43.217	38.087	94.044	MWD+IFR1+MS
10600.000	82.554	180.072	10046.960	28.425	-0.000	38.234	0.000	26.800	0.000	0.000	43.285	38.196	94.917	MWD+IFR1+MS
10693.081	90.000	180.072	10053.000	28.268	0.000	38.326	0.000	28.268	0.000	0.000	43.309	38.272	95.829	MWD+IFR1+MS
10700.000	90.000	180.072	10053.000	28.285	0.000	38.332	0.000	28.285	0.000	0.000	43.311	38.277	95.899	MWD+IFR1+MS
10800.000	90.000	180.072	10053.000	28.519	0.000	38.430	0.000	28.519	0.000	0.000	43.333	38.354	96.944	MWD+IFR1+MS
10900.000	90.000	180.072	10053.000	28.777	0.000	38.551	0.000	28.777	0.000	0.000	43.359	38.450	98.044	MWD+IFR1+MS
11000.000	90.000	180.072	10053.000	29.054	0.000	38.691	0.000	29.054	0.000	0.000	43.389	38.562	99.204	MWD+IFR1+MS
11100.000	90.000	180.072	10053.000	29.350	0.000	38.851	0.000	29.350	0.000	0.000	43.425	38.689	100.438	MWD+IFR1+MS
11200.000	90.000	180.072	10053.000	29.663	0.000	39.031	0.000	29.663	0.000	0.000	43.465	38.830	101.756	MWD+IFR1+MS
11300.000	90.000	180.072	10053.000	29.993	0.000	39.229	0.000	29.993	0.000	0.000	43.512	38.983	103.175	MWD+IFR1+MS
11400.000	90.000	180.072	10053.000	30.340	0.000	39.446	0.000	30.340	0.000	0.000	43.566	39.149	104.708	MWD+IFR1+MS
11500.000	90.000	180.072	10053.000	30.704	0.000	39.681	0.000	30.704	0.000	0.000	43.629	39.325	106.372	MWD+IFR1+MS
11600.000	90.000	180.072	10053.000	31.083	0.000	39.935	0.000	31.083	0.000	0.000	43.700	39.511	108.184	MWD+IFR1+MS
11700.000	90.000	180.072	10053.000	31.477	0.000	40.206	0.000	31.477	0.000	0.000	43.782	39.703	110.158	MWD+IFR1+MS
11800.000	90.000	180.072	10053.000	31.885	0.000	40.494	0.000	31.885	0.000	0.000	43.877	39.901	112.307	MWD+IFR1+MS
11900.000	90.000	180.072	10053.000	32.307	0.000	40.800	0.000	32.307	0.000	0.000	43.986	40.102	114.642	MWD+IFR1+MS
12000.000	90.000	180.072	10053.000	32.743	0.000	41.122	0.000	32.743	0.000	0.000	44.111	40.303	117.163	MWD+IFR1+MS
12100.000	90.000	180.072	10053.000	33.191	0.000	41.460	0.000	33.191	0.000	0.000	44.256	40.502	119.861	MWD+IFR1+MS
12200.000	90.000	180.072	10053.000	33.652	0.000	41.814	0.000	33.652	0.000	0.000	44.421	40.696	122.716	MWD+IFR1+MS
12300.000	90.000	180.072	10053.000	34.125	0.000	42.184	0.000	34.125	0.000	0.000	44.610	40.883	125.689	MWD+IFR1+MS
12400.000	90.000	180.072	10053.000	34.609	0.000	42.568	0.000	34.609	0.000	0.000	44.824	41.060	128.733	MWD+IFR1+MS

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12500.000	90.000	180.072	10053.000	35.104	0.000	42.968	0.000	35.104	0.000	45.064	41.226	131.788	MWD+IFR1+MS
12600.000	90.000	180.072	10053.000	35.609	0.000	43.381	0.000	35.609	0.000	45.331	41.379	134.795	MWD+IFR1+MS
12700.000	90.000	180.072	10053.000	36.124	0.000	43.808	0.000	36.124	0.000	45.626	41.519	-42.301	MWD+IFR1+MS
12800.000	90.000	180.072	10053.000	36.649	0.000	44.249	0.000	36.649	0.000	45.947	41.647	-39.546	MWD+IFR1+MS
12900.000	90.000	180.072	10053.000	37.183	0.000	44.703	0.000	37.183	0.000	46.294	41.762	-36.968	MWD+IFR1+MS
13000.000	90.000	180.072	10053.000	37.726	0.000	45.169	0.000	37.726	0.000	46.665	41.867	-34.586	MWD+IFR1+MS
13100.000	90.000	180.072	10053.000	38.277	0.000	45.647	0.000	38.277	0.000	47.058	41.961	-32.401	MWD+IFR1+MS
13200.000	90.000	180.072	10053.000	38.836	0.000	46.138	0.000	38.836	0.000	47.473	42.047	-30.411	MWD+IFR1+MS
13300.000	90.000	180.072	10053.000	39.403	0.000	46.640	0.000	39.403	0.000	47.908	42.125	-28.605	MWD+IFR1+MS
13400.000	90.000	180.072	10053.000	39.977	0.000	47.153	0.000	39.977	0.000	48.361	42.196	-26.968	MWD+IFR1+MS
13500.000	90.000	180.072	10053.000	40.559	0.000	47.677	0.000	40.559	0.000	48.830	42.262	-25.485	MWD+IFR1+MS
13600.000	90.000	180.072	10053.000	41.147	0.000	48.211	0.000	41.147	0.000	49.316	42.323	-24.141	MWD+IFR1+MS
13700.000	90.000	180.072	10053.000	41.741	0.000	48.755	0.000	41.741	0.000	49.816	42.379	-22.921	MWD+IFR1+MS
13800.000	90.000	180.072	10053.000	42.342	0.000	49.309	0.000	42.342	0.000	50.330	42.433	-21.811	MWD+IFR1+MS
13900.000	90.000	180.072	10053.000	42.948	0.000	49.872	0.000	42.948	0.000	50.857	42.483	-20.800	MWD+IFR1+MS
14000.000	90.000	180.072	10053.000	43.561	0.000	50.445	0.000	43.561	0.000	51.396	42.531	-19.876	MWD+IFR1+MS
14100.000	90.000	180.072	10053.000	44.179	0.000	51.026	0.000	44.179	0.000	51.947	42.577	-19.029	MWD+IFR1+MS
14200.000	90.000	180.072	10053.000	44.802	0.000	51.616	0.000	44.802	0.000	52.509	42.620	-18.251	MWD+IFR1+MS
14300.000	90.000	180.072	10053.000	45.430	0.000	52.214	0.000	45.430	0.000	53.080	42.663	-17.534	MWD+IFR1+MS
14400.000	90.000	180.072	10053.000	46.063	0.000	52.820	0.000	46.063	0.000	53.662	42.704	-16.872	MWD+IFR1+MS
14500.000	90.000	180.072	10053.000	46.700	0.000	53.433	0.000	46.700	0.000	54.253	42.744	-16.259	MWD+IFR1+MS
14600.000	90.000	180.072	10053.000	47.342	0.000	54.054	0.000	47.342	0.000	54.853	42.783	-15.690	MWD+IFR1+MS
14700.000	90.000	180.072	10053.000	47.988	0.000	54.682	0.000	47.988	0.000	55.461	42.822	-15.160	MWD+IFR1+MS
14800.000	90.000	180.072	10053.000	48.638	0.000	55.317	0.000	48.638	0.000	56.077	42.859	-14.666	MWD+IFR1+MS
14900.000	90.000	180.072	10053.000	49.292	0.000	55.959	0.000	49.292	0.000	56.701	42.897	-14.204	MWD+IFR1+MS
15000.000	90.000	180.072	10053.000	49.950	0.000	56.607	0.000	49.950	0.000	57.332	42.934	-13.772	MWD+IFR1+MS
15100.000	90.000	180.072	10053.000	50.612	0.000	57.261	0.000	50.612	0.000	57.971	42.970	-13.366	MWD+IFR1+MS
15200.000	90.000	180.072	10053.000	51.277	0.000	57.922	0.000	51.277	0.000	58.616	43.007	-12.984	MWD+IFR1+MS
15300.000	90.000	180.072	10053.000	51.945	0.000	58.588	0.000	51.945	0.000	59.268	43.043	-12.624	MWD+IFR1+MS
15400.000	90.000	180.072	10053.000	52.617	0.000	59.259	0.000	52.617	0.000	59.926	43.079	-12.285	MWD+IFR1+MS
15500.000	90.000	180.072	10053.000	53.291	0.000	59.937	0.000	53.291	0.000	60.590	43.116	-11.964	MWD+IFR1+MS
15600.000	90.000	180.072	10053.000	53.969	0.000	60.619	0.000	53.969	0.000	61.260	43.152	-11.660	MWD+IFR1+MS
15700.000	90.000	180.072	10053.000	54.650	0.000	61.306	0.000	54.650	0.000	61.936	43.188	-11.372	MWD+IFR1+MS

Well Plan Report

12/18/24, 5:33 AM

15800.000	90.000	180.072	10053.000	55.333	0.000	61.999	0.000	55.333	0.000	62.617	43.224	-11.098	MWD+IFR1+MS
15900.000	90.000	180.072	10053.000	56.019	0.000	62.696	0.000	56.019	0.000	63.303	43.261	-10.838	MWD+IFR1+MS
16000.000	90.000	180.072	10053.000	56.707	0.000	63.397	0.000	56.707	0.000	63.994	43.298	-10.590	MWD+IFR1+MS
16100.000	90.000	180.072	10053.000	57.398	0.000	64.104	0.000	57.398	0.000	64.690	43.334	-10.354	MWD+IFR1+MS
16200.000	90.000	180.072	10053.000	58.091	0.000	64.814	0.000	58.091	0.000	65.391	43.371	-10.129	MWD+IFR1+MS
16300.000	90.000	180.072	10053.000	58.787	0.000	65.528	0.000	58.787	0.000	66.096	43.409	-9.914	MWD+IFR1+MS
16400.000	90.000	180.072	10053.000	59.485	0.000	66.247	0.000	59.485	0.000	66.805	43.446	-9.708	MWD+IFR1+MS
16500.000	90.000	180.072	10053.000	60.185	0.000	66.969	0.000	60.185	0.000	67.519	43.484	-9.511	MWD+IFR1+MS
16600.000	90.000	180.072	10053.000	60.887	0.000	67.695	0.000	60.887	0.000	68.237	43.522	-9.322	MWD+IFR1+MS
16700.000	90.000	180.072	10053.000	61.591	0.000	68.425	0.000	61.591	0.000	68.958	43.560	-9.140	MWD+IFR1+MS
16800.000	90.000	180.072	10053.000	62.297	0.000	69.159	0.000	62.297	0.000	69.684	43.599	-8.966	MWD+IFR1+MS
16900.000	90.000	180.072	10053.000	63.005	0.000	69.895	0.000	63.005	0.000	70.413	43.638	-8.799	MWD+IFR1+MS
17000.000	90.000	180.072	10053.000	63.715	0.000	70.635	0.000	63.715	0.000	71.145	43.677	-8.638	MWD+IFR1+MS
17100.000	90.000	180.072	10053.000	64.426	0.000	71.379	0.000	64.426	0.000	71.881	43.716	-8.483	MWD+IFR1+MS
17200.000	90.000	180.072	10053.000	65.139	0.000	72.125	0.000	65.139	0.000	72.621	43.756	-8.334	MWD+IFR1+MS
17300.000	90.000	180.072	10053.000	65.854	0.000	72.874	0.000	65.854	0.000	73.363	43.797	-8.190	MWD+IFR1+MS
17400.000	90.000	180.072	10053.000	66.570	0.000	73.626	0.000	66.570	0.000	74.109	43.837	-8.051	MWD+IFR1+MS
17500.000	90.000	180.072	10053.000	67.288	0.000	74.382	0.000	67.288	0.000	74.858	43.878	-7.918	MWD+IFR1+MS
17600.000	90.000	180.072	10053.000	68.007	0.000	75.139	0.000	68.007	0.000	75.609	43.920	-7.788	MWD+IFR1+MS
17700.000	90.000	180.072	10053.000	68.728	0.000	75.900	0.000	68.728	0.000	76.364	43.961	-7.663	MWD+IFR1+MS
17800.000	90.000	180.072	10053.000	69.450	0.000	76.663	0.000	69.450	0.000	77.121	44.003	-7.542	MWD+IFR1+MS
17900.000	90.000	180.072	10053.000	70.174	0.000	77.428	0.000	70.174	0.000	77.881	44.046	-7.425	MWD+IFR1+MS
18000.000	90.000	180.072	10053.000	70.898	0.000	78.196	0.000	70.898	0.000	78.643	44.089	-7.312	MWD+IFR1+MS
18100.000	90.000	180.072	10053.000	71.624	0.000	78.967	0.000	71.624	0.000	79.408	44.132	-7.202	MWD+IFR1+MS
18200.000	90.000	180.072	10053.000	72.352	0.000	79.739	0.000	72.352	0.000	80.175	44.176	-7.095	MWD+IFR1+MS
18300.000	90.000	180.072	10053.000	73.080	0.000	80.514	0.000	73.080	0.000	80.945	44.220	-6.992	MWD+IFR1+MS
18400.000	90.000	180.072	10053.000	73.810	0.000	81.291	0.000	73.810	0.000	81.717	44.264	-6.892	MWD+IFR1+MS
18462.887	90.000	180.072	10053.000	74.268	0.000	81.780	0.000	74.268	0.000	82.202	44.292	-6.830	MWD+IFR1+MS
18500.000	90.000	180.072	10053.000	74.539	0.000	82.067	0.000	74.539	0.000	82.488	44.309	-6.795	MWD+IFR1+MS
18552.925	90.000	180.072	10053.000	74.925	0.000	82.479	0.000	74.925	0.000	82.897	44.333	-6.745	MWD+IFR1+MS

Plan Targets

Poker Lake Unit 30BS 110H

TVD MSL Target Shape

Grid Easting

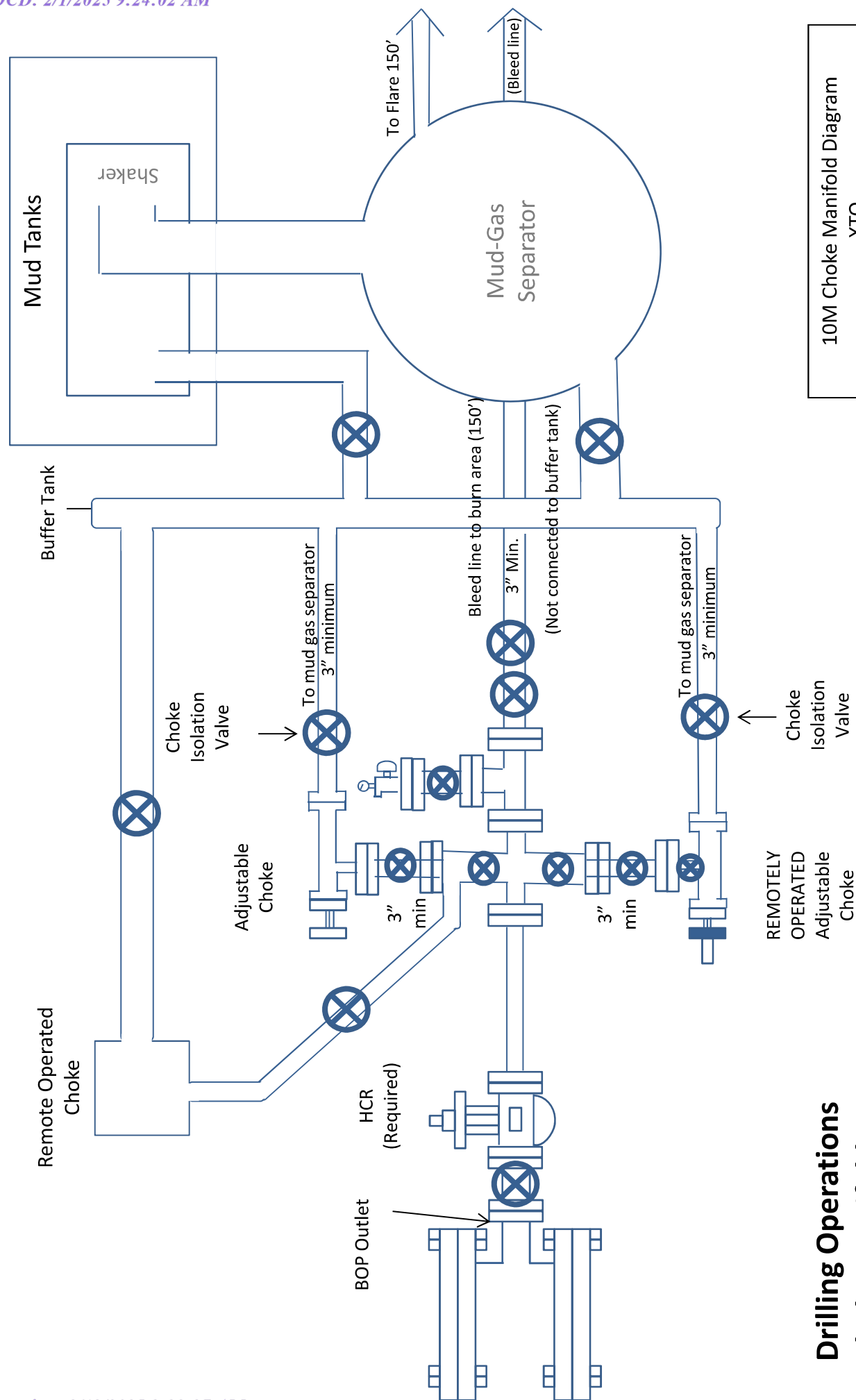
Grid Northing

Measured Depth

Well Plan Report

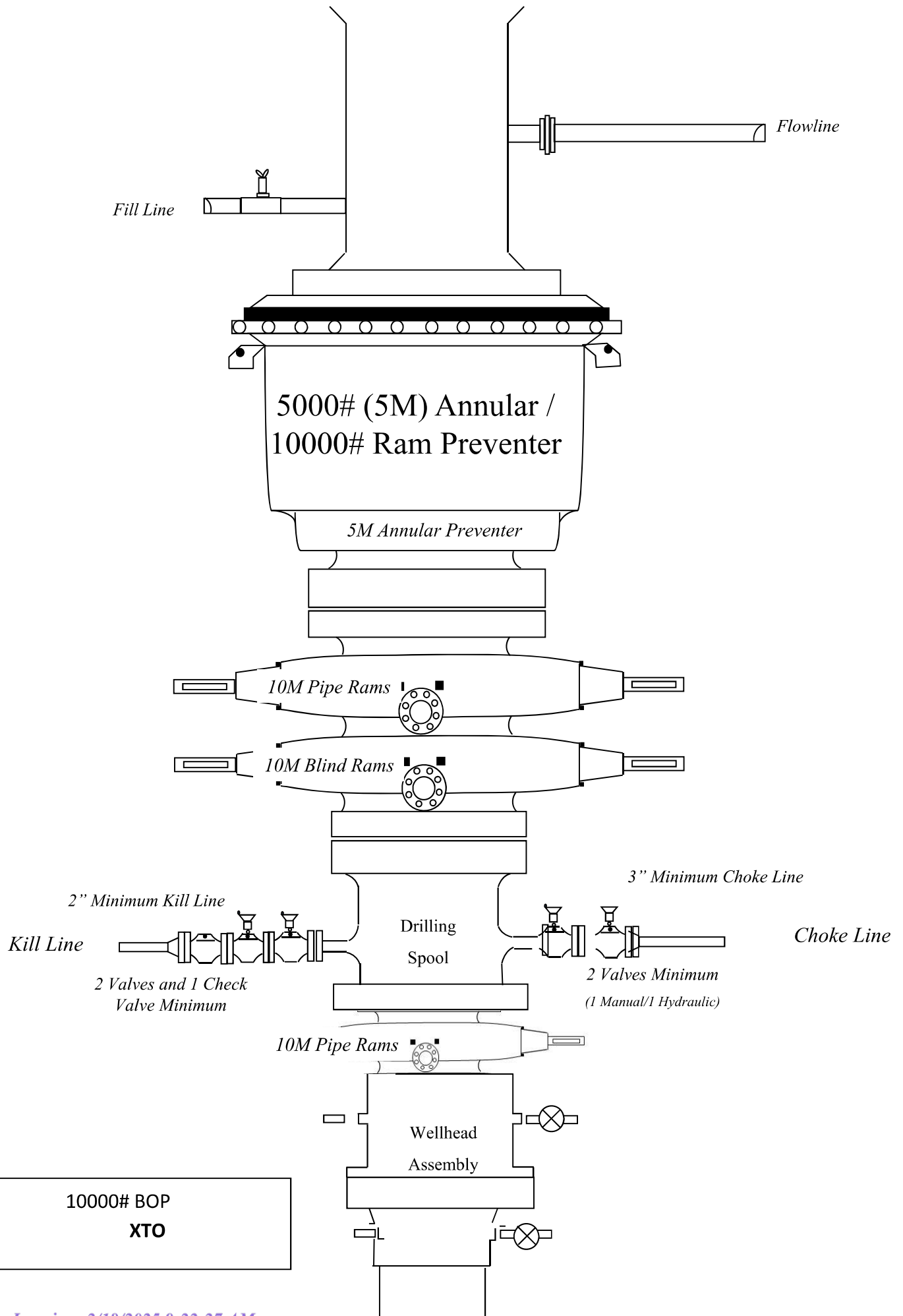
Target Name	(ft)	(ft)	(ft)
FTP 3	10693.02	400781.50	659240.80
LTP 3	18462.89	393011.70	659231.10
BHL 3	18552.89	392921.70	659231.20
			6650.00 CIRCLE
			6650.00 CIRCLE
			6650.00 CIRCLE

Mud Tanks
40' -50' from
wellbore



Drilling Operations Choke Manifold 10M Service

10M Choke Manifold Diagram





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

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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**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:

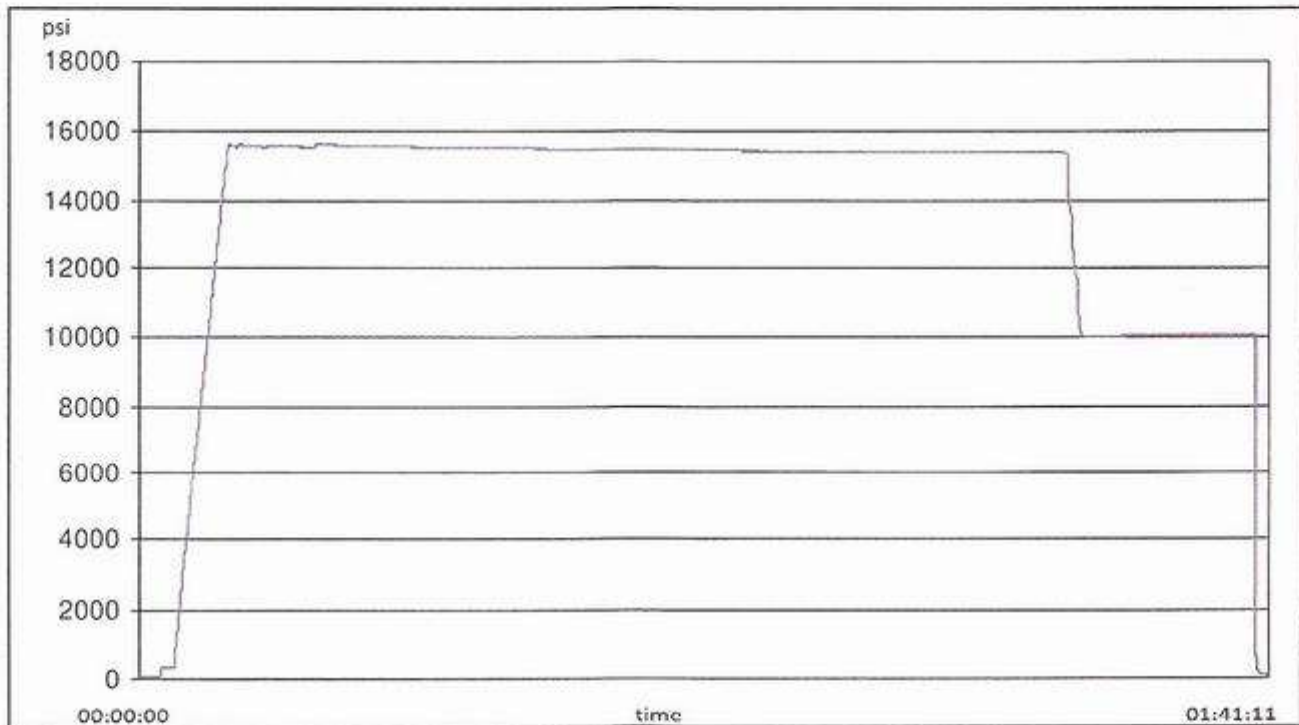
Visual check:

Length: 45 feet

Pressure test result: PASS

Length measurement result:

Test operator: Travis





H3-15/16

1/25/2024 11:48:06 AM

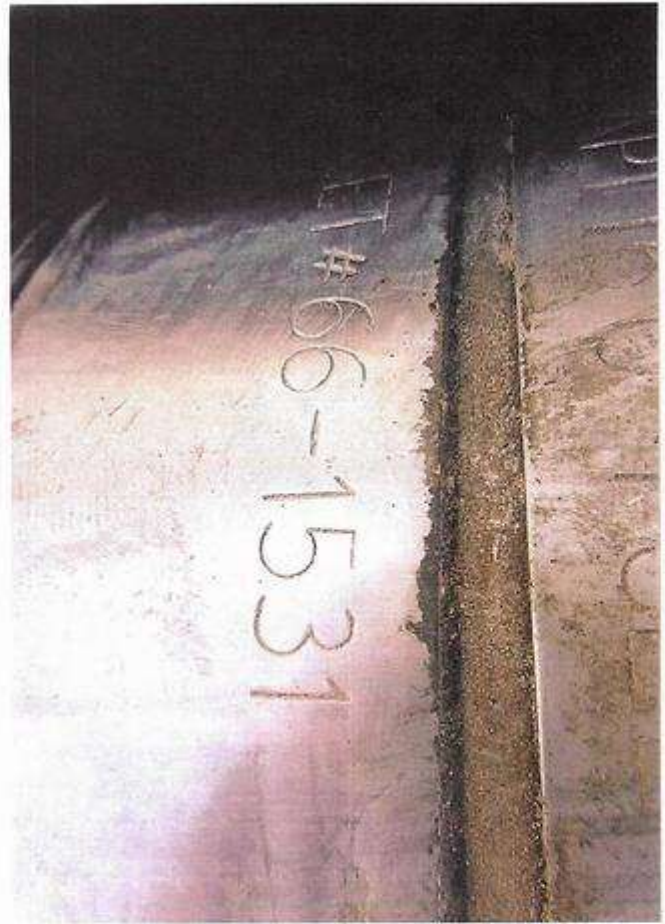
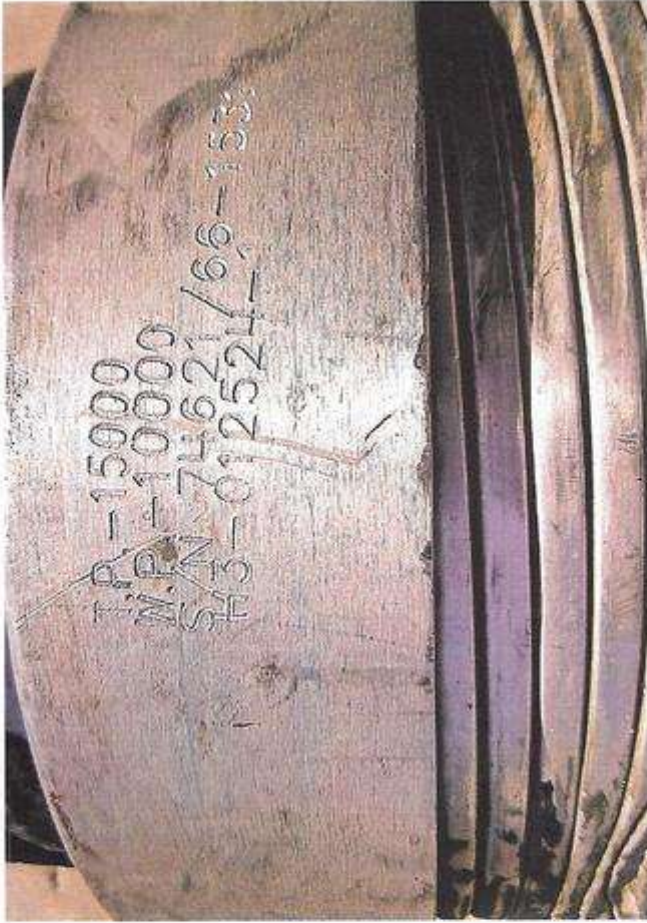
TEST REPORT

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





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/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 427305

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 427305
	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.	2/18/2025