

Well Name: POKER LAKE UNIT 20 DTD	Well Location: T24S / R30E / SEC 20 / NWNW / 32.207913 / -103.907926	County or Parish/State: EDDY / NM
Well Number: 121H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM02860	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: 2776549

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/23/2024

Time Sundry Submitted: 02:09

Date proposed operation will begin: 07/09/2024

Procedure Description: XTO Permian Operating LLC Respectfully submits a NOI to Change APD for the above well. We are changing the following for the well: Casing design, cement design, SHL, FTP, LTP, BHL, proposed total depth and formation (pool). SHL: F/ 899' FNL & 1320' FWL Sec 20, T-24S, R-30E TO: 939' FNL & 1320' FWL Sec 20, T-24S, R-30E FTP: F/ 100' FSL & 330' FWL TO: 100' FNL & 459' FWL PPP: F/ TO: 0' FSL & 435' FWL LTP: F/ 330' FNL & 330' FWL TO: 2578' FNL & 459' FWL BHL: F/ 200' FNL & 330' FWL Sec 32, T-23S, R-30E TO: 2628' FNL & 459' FWL Sec 5, T-25S, R-30E Proposed TD: F/ 31,900' MD; 10,635' TVD (Wolfcamp; 98220) TO: 27,520' MD; 9254' TVD (Bone Springs) Attachments: C-102 Drilling Plan Directional Plan MBS Diagram

NOI Attachments

Procedure Description

Poker_Lake_Unit_20_DTD_121H_Attachments_20240223140143.pdf

Received by OCD: 5/8/2024 1:02:15 PM

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US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Conditions of Approval

Additional

Sec_20_24S_30E_NMP_Sundry_2776549_Poker_Lake_Unit_20_DTD_121H_COAs_20240404151749.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: SAMANTHA WEIS

Signed on: FEB 23, 2024 02:07 PM

Name: XTO PERMIAN OPERATING LLC

Title: Permitting Advisor

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRINGState: TX

Phone: (832) 625-7361

Email address: SAMANTHA.R.BARTNIK@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: 05/08/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

- Drilling Plan
- Directional Plan
- MBS Diagram

Location of Well

- 0. SHL: NWNW / 899 FNL / 1320 FWL / TWSP: 24S / RANGE: 30E / SECTION: 20 / LAT: 32.207913 / LONG: -103.907926 (TVD: 0 feet, MD: 0 feet)
- PPP: SWSW / 330 FSL / 330 FWL / TWSP: 24S / RANGE: 30E / SECTION: 8 / LAT: 32.22564 / LONG: -103.91114 (TVD: 10635 feet, MD: 16400 feet)
- PPP: SWSW / 100 FSL / 330 FWL / TWSP: 24S / RANGE: 30E / SECTION: 17 / LAT: 32.210641 / LONG: -103.911144 (TVD: 10635 feet, MD: 11100 feet)
- PPP: SWSW / 330 FSL / 330 FWL / TWSP: 24S / RANGE: 30E / SECTION: 5 / LAT: 32.24009 / LONG: -103.91114 (TVD: 10635 feet, MD: 21700 feet)
- BHL: NWNW / 200 FNL / 330 FWL / TWSP: 23S / RANGE: 30E / SECTION: 32 / LAT: 32.268007 / LONG: -103.911142 (TVD: 10635 feet, MD: 31900 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 20 121H
LOCATION:	Sec 20-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

Changes approved through engineering via **Sundry 2776549** on 04/04/2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H₂S	☒ No	☐ Yes		
Potash / WIPP	☒ None	☐ Secretary	☐ R-111-P	☐ WIPP
Cave / Karst	☒ Low	☐ Medium	☐ High	☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☐ Primary Squeeze	☒ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☒ Break Testing	☐ Water Disposal	☐ COM	☒ Unit
Variance	☒ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☒ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
☐ Batch APD / Sundry				

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 **13-3/8** inch surface casing shall be set at approximately 700 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. ***Set depth adjusted per BLM geologist.***
 - 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 **9-5/8** inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus after primary cementing stage. Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to the BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

3. The minimum required fill of cement behind the **6** inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. 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.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 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 Onshore Oil and Gas Order No. 2.
- 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)

Eddy County (API No. / US Well No. contains 30-015-#####)

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM NM CFO DrillingNotifications@blm.gov; (575) 361-2822

Lea County (API No. / US Well No. contains 30-025-#####)

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240; (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead 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).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the 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.)
 - c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear

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

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☒ AMENDED REPORT

APD ID # 10400089233

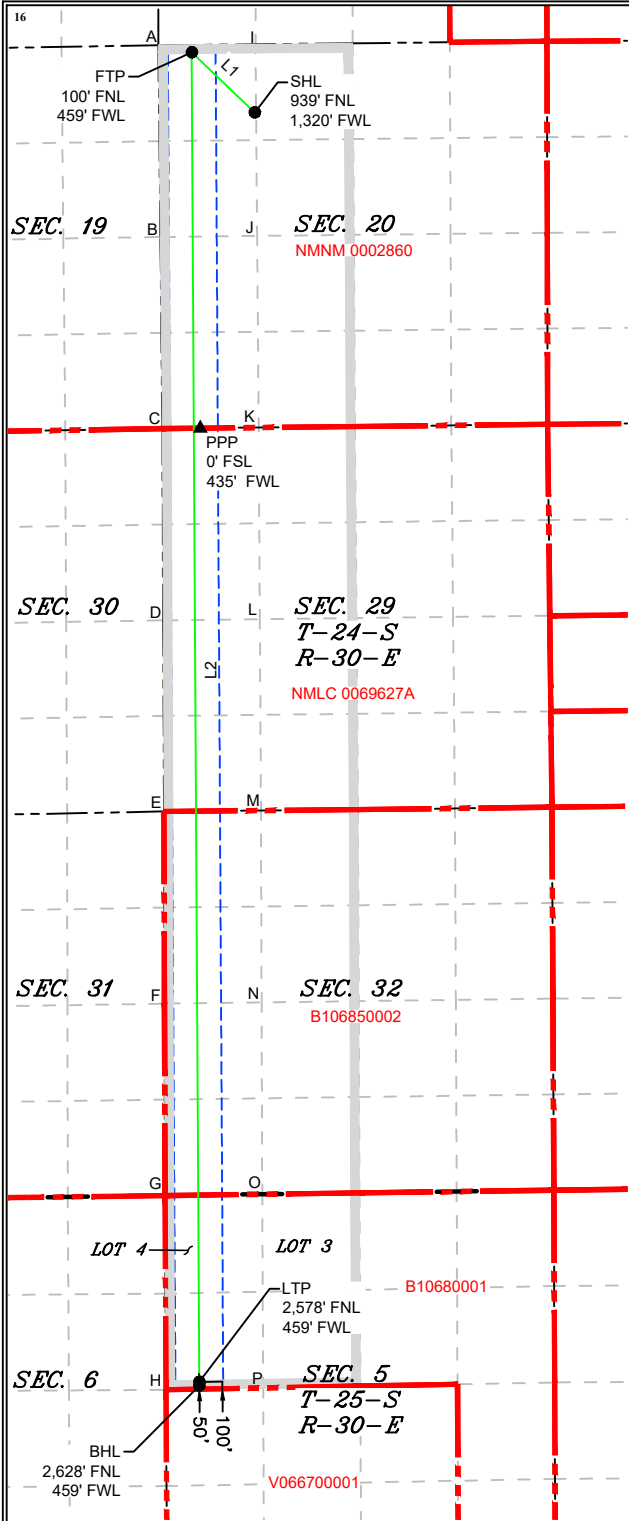
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code	³ Pool Name Undesignated; Bone Springs
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 20 DTD	⁶ Well Number 121H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,220'

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	20	24S	30E		939	NORTH	1,320	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	5	25S	30E		2,628	NORTH	459	WEST	EDDY
¹² Dedicated Acres 1,121.05	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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



LEGEND

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

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	313°39'34"	1,201.84'
L2	179°40'35"	18,401.26'

COORDINATE TABLE

SHL (NAD 83 NME)		SHL (NAD 27 NME)	
Y =	439,593.3 N	Y =	439,534.0 N
X =	672,911.2 E	X =	631,727.5 E
LAT. =	32.207803 °N	LAT. =	32.207679 °N
LONG. =	103.907925 °W	LONG. =	103.907438 °W
FTP (NAD 83 NME)		FTP (NAD 27 NME)	
Y =	440,423.0 N	Y =	440,363.7 N
X =	672,041.7 E	X =	630,858.1 E
LAT. =	32.210093 °N	LAT. =	32.209969 °N
LONG. =	103.910726 °W	LONG. =	103.910238 °W
PPP (NAD 83 NME)		PPP (NAD 27 NME)	
Y =	435,232.3 N	Y =	435,173.1 N
X =	672,071.1 E	X =	630,887.2 E
LAT. =	32.195825 °N	LAT. =	32.195700 °N
LONG. =	103.910697 °W	LONG. =	103.910210 °W
LTP (NAD 83 NME)		LTP (NAD 27 NME)	
Y =	422,072.0 N	Y =	422,013.2 N
X =	672,145.4 E	X =	630,961.1 E
LAT. =	32.159648 °N	LAT. =	32.159623 °N
LONG. =	103.910624 °W	LONG. =	103.910138 °W
BHL (NAD 83 NME)		BHL (NAD 27 NME)	
Y =	422,022.0 N	Y =	421,963.2 N
X =	672,145.7 E	X =	630,961.4 E
LAT. =	32.159611 °N	LAT. =	32.159386 °N
LONG. =	103.910623 °W	LONG. =	103.910138 °W

CORNER COORDINATES (NAD 83 NME)

A - Y = 440,518.1 N	A - X = 671,581.7 E
B - Y = 437,872.8 N	B - X = 671,608.7 E
C - Y = 435,227.3 N	C - X = 671,636.4 E
D - Y = 432,582.2 N	D - X = 671,647.1 E
E - Y = 429,944.5 N	E - X = 671,658.1 E
F - Y = 427,291.7 N	F - X = 671,665.3 E
G - Y = 424,643.6 N	G - X = 671,672.5 E
H - Y = 421,963.4 N	H - X = 671,687.0 E
I - Y = 440,532.2 N	I - X = 672,921.8 E
J - Y = 437,887.3 N	J - X = 672,943.1 E
K - Y = 435,242.5 N	K - X = 672,964.6 E
L - Y = 432,596.0 N	L - X = 672,980.4 E
M - Y = 429,957.3 N	M - X = 672,996.3 E
N - Y = 427,309.2 N	N - X = 673,004.9 E
O - Y = 424,662.1 N	O - X = 673,013.6 E
P - Y = 421,988.6 N	P - X = 673,026.9 E

CORNER COORDINATES (NAD 27 NME)

A - Y = 440,458.8 N	A - X = 630,398.1 E
B - Y = 437,813.6 N	B - X = 630,425.0 E
C - Y = 435,168.2 N	C - X = 630,452.5 E
D - Y = 432,523.1 N	D - X = 630,463.2 E
E - Y = 429,885.5 N	E - X = 630,474.1 E
F - Y = 427,232.8 N	F - X = 630,481.2 E
G - Y = 424,584.7 N	G - X = 630,488.3 E
H - Y = 421,904.6 N	H - X = 630,502.7 E
I - Y = 440,472.9 N	I - X = 631,738.2 E
J - Y = 437,828.0 N	J - X = 631,759.3 E
K - Y = 435,183.4 N	K - X = 631,780.7 E
L - Y = 432,538.9 N	L - X = 631,796.4 E
M - Y = 429,898.2 N	M - X = 631,812.3 E
N - Y = 427,250.3 N	N - X = 631,820.8 E
O - Y = 424,603.2 N	O - X = 631,829.4 E
P - Y = 421,929.7 N	P - X = 631,842.6 E

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Samantha Weis 2/22/2024
Signature Date

Samantha Weis
Printed Name

samantha.r.bartnik@exxonmobil.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

02/09/2024

Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786
Certificate Number

RP 618.013003.06-35

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

XTO Energy Inc.
PLU 20 Dog Town Draw 121H
Projected TD: 27519.61' MD / 9254' TVD
SHL: 939' FNL & 1320' FWL , Section 20, T24S, R30E
BHL: 2628' FNL & 459' FWL , Section 5, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	784'	Water
Top of Salt	1187'	Water
Base of Salt	3380'	Water
Delaware	3574'	Water
Brushy Canyon	6072'	Water/Oil/Gas
Bone Spring	7368'	Water
1st Bone Spring	8354'	Water/Oil/Gas
2nd Bone Spring	9244'	Water/Oil/Gas
Target/Land Curve	9254'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13.375 inch casing @ 884' (303' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 9.625 inch casing at 8493.18' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 27519.61 MD/TD and 6 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8193.18 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 884'	13.375	54.5	J-55	BTC	New	1.56	2.93	18.87
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	3.38	2.48	3.73
12.25	4000' – 8493.18'	9.625	40	HC L-80	BTC	New	2.45	2.36	5.10
8.5	0' – 8393.18'	6	26	P-110	Semi-Premium	New	1.17	3.42	1.80
8.5	8393.18' - 27519.61'	6	26	P-110	Semi-Premium	New	1.17	3.10	2.01

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 9.625 Collapse analyzed using 50% evacuation based on regional experience.
- 6 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom (or equivalent)

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange (or equivalent)

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 884'

Lead: 430 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)
 Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 Top of Cement: Surface
 Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 9.625, 40 New casing to be set at +/- 8493.18'

1st Stage

Optional Lead: 1020 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)
 TOC: Surface
 Tail: 700 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 TOC: Brushy Canyon @ 6072
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft³/sx, 9.61 gal/sx water)
 Tail: 2140 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
 Top of Cement: 0
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 9-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6072') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 6, 26 New Semi-Premium, P-110 casing to be set at +/- 27519.61'

Lead: 40 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 8193.18 feet
 Tail: 3200 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 8693.18 feet
 Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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

5. Pressure Control Equipment

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 2343 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 9.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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

on each of the wells.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 884'	17.5	FW/Native	8.4-8.9	35-40	NC
884' - 8493.18'	12.25	FW / Cut Brine / Direct Emulsion	8.2-8.7	30-32	NC
8493.18' - 27519.61'	8.5	OBM	9.1-9.6	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- H2S monitors will be on location when drilling below the 13.375 casing.

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 4379 psi.

10. Anticipated Starting Date and Duration of Operations

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

Well Plan Report - Poker Lake Unit 20 DTD South 121H

Measured Depth:	27519.61 ft
TVD RKB:	9254.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	439534.00 ft
Easting:	631727.50 ft
RKB:	3252.00 ft
Ground Level:	3220.00 ft
North Reference:	Grid
Convergence Angle:	0.23 Deg

Plan SectionsPoker Lake Unit 20 DTD South 121H

Measured						Build	Turn	Dogleg		
Depth	Inclination	Azimuth	TVD RKB	Y Offset	X Offset	Rate	Rate	Rate	Target	
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00		
1902.44	16.05	312.60	1891.99	75.57	-82.19	2.00	0.00	2.00		
5352.94	16.05	312.60	5208.01	721.22	-784.39	0.00	0.00	0.00		
6155.38	0.00	0.00	6000.00	796.79	-866.58	-2.00	0.00	2.00		
8693.18	0.00	0.00	8537.80	796.79	-866.58	0.00	0.00	0.00		
9818.18	90.00	179.68	9254.00	80.60	-862.53	8.00	0.00	8.00		
27470.26	90.00	179.68	9254.00	-17571.20	-762.71	0.00	0.00	0.00	LTP 5	
27519.61	90.00	179.68	9254.00	-17620.54	-762.43	0.00	0.00	0.00	BHL 5	

Position UncertaintyPoker Lake Unit 20 DTD South 121H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	2.309	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	2.346	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	2.373	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	2.405	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	2.442	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	2.483	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	2.529	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	2.578	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	2.631	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	312.597	1199.980	4.360	0.000	5.094	0.000	2.687	0.000	0.000	5.121	4.331	121.556	MWD+IFR1+MS
1300.000	4.000	312.597	1299.838	5.242	0.000	5.423	0.000	2.747	0.000	0.000	5.613	5.046	96.533	MWD+IFR1+MS
1400.000	6.000	312.597	1399.452	6.011	0.000	5.756	0.000	2.812	0.000	0.000	6.274	5.486	77.521	MWD+IFR1+MS
1500.000	8.000	312.597	1498.702	6.704	0.000	6.092	0.000	2.885	0.000	0.000	6.952	5.839	70.027	MWD+IFR1+MS
1600.000	10.000	312.597	1597.465	7.342	0.000	6.431	0.000	2.967	0.000	0.000	7.599	6.174	66.596	MWD+IFR1+MS
1700.000	12.000	312.597	1695.623	7.936	0.000	6.774	0.000	3.062	0.000	0.000	8.213	6.505	64.722	MWD+IFR1+MS
1800.000	14.000	312.597	1793.055	8.495	0.000	7.120	0.000	3.170	0.000	0.000	8.798	6.839	63.585	MWD+IFR1+MS
1902.442	16.049	312.597	1891.990	9.052	0.000	7.481	0.000	3.299	0.000	0.000	9.385	7.184	62.803	MWD+IFR1+MS
2000.000	16.049	312.597	1985.746	9.429	0.000	7.827	0.000	3.399	0.000	0.000	9.761	7.515	63.161	MWD+IFR1+MS
2100.000	16.049	312.597	2081.848	9.725	0.000	8.186	0.000	3.492	0.000	0.000	10.057	7.867	63.790	MWD+IFR1+MS
2200.000	16.049	312.597	2177.951	10.029	0.000	8.550	0.000	3.589	0.000	0.000	10.360	8.222	64.426	MWD+IFR1+MS
2300.000	16.049	312.597	2274.054	10.341	0.000	8.916	0.000	3.690	0.000	0.000	10.671	8.581	65.057	MWD+IFR1+MS
2400.000	16.049	312.597	2370.156	10.659	0.000	9.286	0.000	3.795	0.000	0.000	10.987	8.942	65.683	MWD+IFR1+MS
2500.000	16.049	312.597	2466.259	10.983	0.000	9.658	0.000	3.903	0.000	0.000	11.309	9.306	66.305	MWD+IFR1+MS
2600.000	16.049	312.597	2562.362	11.312	0.000	10.032	0.000	4.014	0.000	0.000	11.636	9.672	66.922	MWD+IFR1+MS
2700.000	16.049	312.597	2658.464	11.647	0.000	10.408	0.000	4.128	0.000	0.000	11.968	10.039	67.532	MWD+IFR1+MS
2800.000	16.049	312.597	2754.567	11.986	0.000	10.786	0.000	4.245	0.000	0.000	12.304	10.409	68.137	MWD+IFR1+MS
2900.000	16.049	312.597	2850.670	12.329	0.000	11.166	0.000	4.364	0.000	0.000	12.644	10.780	68.735	MWD+IFR1+MS
3000.000	16.049	312.597	2946.772	12.677	0.000	11.547	0.000	4.486	0.000	0.000	12.988	11.152	69.326	MWD+IFR1+MS

3100.000	16.049	312.597	3042.875	13.027	0.000	11.929	0.000	4.610	0.000	0.000	13.335	11.526	69.910	MWD+IFR1+MS
3200.000	16.049	312.597	3138.978	13.381	0.000	12.313	0.000	4.736	0.000	0.000	13.685	11.900	70.487	MWD+IFR1+MS
3300.000	16.049	312.597	3235.080	13.738	0.000	12.698	0.000	4.864	0.000	0.000	14.038	12.276	71.055	MWD+IFR1+MS
3400.000	16.049	312.597	3331.183	14.098	0.000	13.083	0.000	4.994	0.000	0.000	14.394	12.653	71.616	MWD+IFR1+MS
3500.000	16.049	312.597	3427.285	14.461	0.000	13.470	0.000	5.126	0.000	0.000	14.753	13.030	72.169	MWD+IFR1+MS
3600.000	16.049	312.597	3523.388	14.826	0.000	13.857	0.000	5.260	0.000	0.000	15.114	13.408	72.713	MWD+IFR1+MS
3700.000	16.049	312.597	3619.491	15.193	0.000	14.245	0.000	5.396	0.000	0.000	15.476	13.787	73.248	MWD+IFR1+MS
3800.000	16.049	312.597	3715.593	15.562	0.000	14.634	0.000	5.534	0.000	0.000	15.841	14.167	73.775	MWD+IFR1+MS
3900.000	16.049	312.597	3811.696	15.933	0.000	15.024	0.000	5.673	0.000	0.000	16.208	14.547	74.293	MWD+IFR1+MS
4000.000	16.049	312.597	3907.799	16.306	0.000	15.414	0.000	5.814	0.000	0.000	16.577	14.928	74.801	MWD+IFR1+MS
4100.000	16.049	312.597	4003.901	16.681	0.000	15.805	0.000	5.956	0.000	0.000	16.947	15.309	75.301	MWD+IFR1+MS
4200.000	16.049	312.597	4100.004	17.057	0.000	16.196	0.000	6.101	0.000	0.000	17.319	15.690	75.792	MWD+IFR1+MS
4300.000	16.049	312.597	4196.107	17.434	0.000	16.587	0.000	6.246	0.000	0.000	17.692	16.073	76.273	MWD+IFR1+MS
4400.000	16.049	312.597	4292.209	17.813	0.000	16.979	0.000	6.394	0.000	0.000	18.067	16.455	76.745	MWD+IFR1+MS
4500.000	16.049	312.597	4388.312	18.194	0.000	17.372	0.000	6.543	0.000	0.000	18.443	16.838	77.208	MWD+IFR1+MS
4600.000	16.049	312.597	4484.415	18.575	0.000	17.765	0.000	6.694	0.000	0.000	18.820	17.221	77.662	MWD+IFR1+MS
4700.000	16.049	312.597	4580.517	18.958	0.000	18.158	0.000	6.846	0.000	0.000	19.198	17.605	78.107	MWD+IFR1+MS
4800.000	16.049	312.597	4676.620	19.341	0.000	18.552	0.000	7.000	0.000	0.000	19.577	17.989	78.542	MWD+IFR1+MS
4900.000	16.049	312.597	4772.722	19.726	0.000	18.946	0.000	7.155	0.000	0.000	19.957	18.373	78.968	MWD+IFR1+MS
5000.000	16.049	312.597	4868.825	20.112	0.000	19.340	0.000	7.312	0.000	0.000	20.339	18.758	79.386	MWD+IFR1+MS
5100.000	16.049	312.597	4964.928	20.498	0.000	19.734	0.000	7.470	0.000	0.000	20.721	19.143	79.794	MWD+IFR1+MS
5200.000	16.049	312.597	5061.030	20.885	0.000	20.129	0.000	7.631	0.000	0.000	21.104	19.528	80.193	MWD+IFR1+MS
5300.000	16.049	312.597	5157.133	21.274	0.000	20.524	0.000	7.792	0.000	0.000	21.487	19.913	80.584	MWD+IFR1+MS
5352.941	16.049	312.597	5208.010	21.476	0.000	20.730	0.000	7.878	0.000	0.000	21.685	20.117	80.754	MWD+IFR1+MS
5400.000	15.108	312.597	5253.340	21.677	0.000	20.911	0.000	7.955	0.000	0.000	21.861	20.298	80.869	MWD+IFR1+MS
5500.000	13.108	312.597	5350.319	22.142	0.000	21.295	0.000	8.125	0.000	0.000	22.280	20.688	80.218	MWD+IFR1+MS
5600.000	11.108	312.597	5448.090	22.627	0.000	21.675	0.000	8.294	0.000	0.000	22.741	21.079	78.853	MWD+IFR1+MS
5700.000	9.108	312.597	5546.533	23.075	0.000	22.046	0.000	8.451	0.000	0.000	23.196	21.461	77.586	MWD+IFR1+MS
5800.000	7.108	312.597	5645.528	23.486	0.000	22.409	0.000	8.598	0.000	0.000	23.642	21.833	76.418	MWD+IFR1+MS
5900.000	5.108	312.597	5744.956	23.858	0.000	22.764	0.000	8.736	0.000	0.000	24.080	22.196	75.351	MWD+IFR1+MS
6000.000	3.108	312.597	5844.694	24.192	0.000	23.109	0.000	8.867	0.000	0.000	24.508	22.549	74.382	MWD+IFR1+MS
6100.000	1.108	312.597	5944.621	24.489	0.000	23.446	0.000	8.993	0.000	0.000	24.926	22.892	73.510	MWD+IFR1+MS
6155.382	0.000	0.000	6000.000	24.955	0.000	23.242	0.000	9.060	0.000	0.000	25.112	23.073	73.583	MWD+IFR1+MS

6200.000	0.000	0.000	6044.618	25.094	0.000	23.385	0.000	9.114	0.000	0.000	25.248	23.218	73.695	MWD+IFR1+MS
6300.000	0.000	0.000	6144.618	25.403	0.000	23.708	0.000	9.237	0.000	0.000	25.551	23.549	73.951	MWD+IFR1+MS
6400.000	0.000	0.000	6244.618	25.717	0.000	24.035	0.000	9.363	0.000	0.000	25.856	23.885	74.292	MWD+IFR1+MS
6500.000	0.000	0.000	6344.618	26.032	0.000	24.364	0.000	9.491	0.000	0.000	26.164	24.222	74.636	MWD+IFR1+MS
6600.000	0.000	0.000	6444.618	26.348	0.000	24.693	0.000	9.622	0.000	0.000	26.472	24.560	74.981	MWD+IFR1+MS
6700.000	0.000	0.000	6544.618	26.665	0.000	25.023	0.000	9.756	0.000	0.000	26.782	24.898	75.327	MWD+IFR1+MS
6800.000	0.000	0.000	6644.618	26.984	0.000	25.354	0.000	9.892	0.000	0.000	27.094	25.236	75.675	MWD+IFR1+MS
6900.000	0.000	0.000	6744.618	27.303	0.000	25.685	0.000	10.032	0.000	0.000	27.406	25.575	76.024	MWD+IFR1+MS
7000.000	0.000	0.000	6844.618	27.623	0.000	26.018	0.000	10.174	0.000	0.000	27.720	25.914	76.374	MWD+IFR1+MS
7100.000	0.000	0.000	6944.618	27.944	0.000	26.351	0.000	10.319	0.000	0.000	28.035	26.254	76.726	MWD+IFR1+MS
7200.000	0.000	0.000	7044.618	28.266	0.000	26.684	0.000	10.467	0.000	0.000	28.352	26.594	77.078	MWD+IFR1+MS
7300.000	0.000	0.000	7144.618	28.589	0.000	27.019	0.000	10.619	0.000	0.000	28.669	26.934	77.431	MWD+IFR1+MS
7400.000	0.000	0.000	7244.618	28.913	0.000	27.354	0.000	10.773	0.000	0.000	28.988	27.275	77.786	MWD+IFR1+MS
7500.000	0.000	0.000	7344.618	29.238	0.000	27.689	0.000	10.930	0.000	0.000	29.307	27.616	78.140	MWD+IFR1+MS
7600.000	0.000	0.000	7444.618	29.563	0.000	28.025	0.000	11.089	0.000	0.000	29.628	27.957	78.496	MWD+IFR1+MS
7700.000	0.000	0.000	7544.618	29.889	0.000	28.362	0.000	11.252	0.000	0.000	29.949	28.298	78.852	MWD+IFR1+MS
7800.000	0.000	0.000	7644.618	30.216	0.000	28.699	0.000	11.418	0.000	0.000	30.272	28.640	79.208	MWD+IFR1+MS
7900.000	0.000	0.000	7744.618	30.543	0.000	29.037	0.000	11.587	0.000	0.000	30.595	28.982	79.565	MWD+IFR1+MS
8000.000	0.000	0.000	7844.618	30.872	0.000	29.375	0.000	11.759	0.000	0.000	30.919	29.325	79.921	MWD+IFR1+MS
8100.000	0.000	0.000	7944.618	31.201	0.000	29.713	0.000	11.935	0.000	0.000	31.245	29.667	80.278	MWD+IFR1+MS
8200.000	0.000	0.000	8044.618	31.530	0.000	30.052	0.000	12.113	0.000	0.000	31.571	30.010	80.635	MWD+IFR1+MS
8300.000	0.000	0.000	8144.618	31.860	0.000	30.392	0.000	12.294	0.000	0.000	31.897	30.353	80.991	MWD+IFR1+MS
8400.000	0.000	0.000	8244.618	32.191	0.000	30.732	0.000	12.478	0.000	0.000	32.225	30.697	81.348	MWD+IFR1+MS
8500.000	0.000	0.000	8344.618	32.523	0.000	31.072	0.000	12.666	0.000	0.000	32.553	31.040	81.703	MWD+IFR1+MS
8600.000	0.000	0.000	8444.618	32.854	0.000	31.413	0.000	12.857	0.000	0.000	32.882	31.384	82.059	MWD+IFR1+MS
8693.182	0.000	0.000	8537.800	33.164	0.000	31.730	0.000	13.037	0.000	0.000	33.189	31.704	82.364	MWD+IFR1+MS
8700.000	0.545	179.676	8544.618	33.156	0.000	31.750	-0.000	13.050	0.000	0.000	33.210	31.726	82.372	MWD+IFR1+MS
8800.000	8.545	179.676	8644.222	33.070	0.000	32.051	-0.000	13.258	0.000	0.000	33.842	32.037	84.705	MWD+IFR1+MS
8900.000	16.545	179.676	8741.755	33.373	0.000	32.336	-0.000	13.589	0.000	0.000	35.272	32.335	88.444	MWD+IFR1+MS
9000.000	24.545	179.676	8835.319	33.168	0.000	32.597	-0.000	14.139	0.000	0.000	36.536	32.597	90.026	MWD+IFR1+MS
9100.000	32.545	179.676	8923.091	32.524	0.000	32.833	-0.000	14.974	0.000	0.000	37.608	32.830	90.922	MWD+IFR1+MS
9200.000	40.545	179.676	9003.364	31.534	0.000	33.041	-0.000	16.110	0.000	0.000	38.476	33.035	91.509	MWD+IFR1+MS
9300.000	48.545	179.676	9074.576	30.318	0.000	33.222	-0.000	17.524	0.000	0.000	39.142	33.213	91.922	MWD+IFR1+MS

9400.000	56.545	179.676	9135.340	29.028	0.000	33.376	-0.000	19.162	0.000	0.000	39.616	33.363	92.209	MWD+IFR1+MS
9500.000	64.545	179.676	9184.473	27.844	0.000	33.502	-0.000	20.957	0.000	0.000	39.919	33.487	92.383	MWD+IFR1+MS
9600.000	72.545	179.676	9221.020	26.965	0.000	33.602	-0.000	22.840	0.000	0.000	40.084	33.585	92.435	MWD+IFR1+MS
9700.000	80.545	179.676	9244.269	26.578	0.000	33.674	-0.000	24.744	0.000	0.000	40.147	33.658	92.343	MWD+IFR1+MS
9800.000	88.545	179.676	9253.766	26.821	0.000	33.719	-0.000	26.607	0.000	0.000	40.156	33.707	92.079	MWD+IFR1+MS
9818.182	90.000	179.676	9253.997	26.662	0.000	33.723	-0.000	26.662	0.000	0.000	40.156	33.711	92.008	MWD+IFR1+MS
9900.000	90.000	179.676	9253.997	26.848	0.000	33.746	-0.000	26.848	0.000	0.000	40.155	33.737	91.685	MWD+IFR1+MS
10000.000	90.000	179.676	9253.997	27.082	0.000	33.794	-0.000	27.082	0.000	0.000	40.154	33.789	91.290	MWD+IFR1+MS
10100.000	90.000	179.676	9253.997	27.338	0.000	33.861	-0.000	27.338	0.000	0.000	40.155	33.858	90.893	MWD+IFR1+MS
10200.000	90.000	179.676	9253.997	27.613	0.000	33.945	-0.000	27.613	0.000	0.000	40.156	33.943	90.490	MWD+IFR1+MS
10300.000	90.000	179.676	9253.997	27.908	0.000	34.046	-0.000	27.908	0.000	0.000	40.159	34.045	90.078	MWD+IFR1+MS
10400.000	90.000	179.676	9253.997	28.222	0.000	34.163	-0.000	28.222	0.000	0.000	40.163	34.163	89.653	MWD+IFR1+MS
10500.000	90.000	179.676	9253.997	28.553	0.000	34.297	-0.000	28.553	0.000	0.000	40.168	34.297	89.213	MWD+IFR1+MS
10600.000	90.000	179.676	9253.997	28.903	0.000	34.448	-0.000	28.903	0.000	0.000	40.174	34.447	88.752	MWD+IFR1+MS
10700.000	90.000	179.676	9253.997	29.269	0.000	34.615	-0.000	29.269	0.000	0.000	40.181	34.612	88.266	MWD+IFR1+MS
10800.000	90.000	179.676	9253.997	29.651	0.000	34.798	-0.000	29.651	0.000	0.000	40.190	34.792	87.748	MWD+IFR1+MS
10900.000	90.000	179.676	9253.997	30.049	0.000	34.997	-0.000	30.049	0.000	0.000	40.200	34.987	87.193	MWD+IFR1+MS
11000.000	90.000	179.676	9253.997	30.462	0.000	35.212	-0.000	30.462	0.000	0.000	40.212	35.196	86.591	MWD+IFR1+MS
11100.000	90.000	179.676	9253.997	30.890	0.000	35.441	-0.000	30.890	0.000	0.000	40.225	35.420	85.933	MWD+IFR1+MS
11200.000	90.000	179.676	9253.997	31.331	0.000	35.686	-0.000	31.331	0.000	0.000	40.240	35.656	85.205	MWD+IFR1+MS
11300.000	90.000	179.676	9253.997	31.785	0.000	35.945	-0.000	31.785	0.000	0.000	40.257	35.906	84.391	MWD+IFR1+MS
11400.000	90.000	179.676	9253.997	32.253	0.000	36.219	-0.000	32.253	0.000	0.000	40.277	36.168	83.471	MWD+IFR1+MS
11500.000	90.000	179.676	9253.997	32.732	0.000	36.507	-0.000	32.732	0.000	0.000	40.300	36.442	82.418	MWD+IFR1+MS
11600.000	90.000	179.676	9253.997	33.223	0.000	36.808	-0.000	33.223	0.000	0.000	40.327	36.726	81.196	MWD+IFR1+MS
11700.000	90.000	179.676	9253.997	33.725	0.000	37.122	-0.000	33.725	0.000	0.000	40.358	37.019	79.759	MWD+IFR1+MS
11800.000	90.000	179.676	9253.997	34.238	0.000	37.450	-0.000	34.238	0.000	0.000	40.394	37.320	78.043	MWD+IFR1+MS
11900.000	90.000	179.676	9253.997	34.761	0.000	37.790	-0.000	34.761	0.000	0.000	40.438	37.627	75.965	MWD+IFR1+MS
12000.000	90.000	179.676	9253.997	35.293	0.000	38.143	-0.000	35.293	0.000	0.000	40.493	37.936	73.413	MWD+IFR1+MS
12100.000	90.000	179.676	9253.997	35.835	0.000	38.508	-0.000	35.835	0.000	0.000	40.561	38.245	70.246	MWD+IFR1+MS
12200.000	90.000	179.676	9253.997	36.386	0.000	38.884	-0.000	36.386	0.000	0.000	40.648	38.546	66.306	MWD+IFR1+MS
12300.000	90.000	179.676	9253.997	36.945	0.000	39.272	-0.000	36.945	0.000	0.000	40.761	38.832	61.460	MWD+IFR1+MS
12400.000	90.000	179.676	9253.997	37.512	0.000	39.670	-0.000	37.512	0.000	0.000	40.911	39.094	55.711	MWD+IFR1+MS
12500.000	90.000	179.676	9253.997	38.087	0.000	40.080	-0.000	38.087	0.000	0.000	41.104	39.323	49.327	MWD+IFR1+MS

12600.000	90.000	179.676	9253.997	38.670	0.000	40.499	-0.000	38.670	0.000	0.000	41.348	39.513	42.858	MWD+IFR1+MS
12700.000	90.000	179.676	9253.997	39.259	0.000	40.929	-0.000	39.259	0.000	0.000	41.641	39.664	36.896	MWD+IFR1+MS
12800.000	90.000	179.676	9253.997	39.855	0.000	41.368	-0.000	39.855	0.000	0.000	41.976	39.783	31.797	MWD+IFR1+MS
12900.000	90.000	179.676	9253.997	40.458	0.000	41.817	-0.000	40.458	0.000	0.000	42.347	39.876	27.627	MWD+IFR1+MS
13000.000	90.000	179.676	9253.997	41.067	0.000	42.275	-0.000	41.067	0.000	0.000	42.746	39.951	24.279	MWD+IFR1+MS
13100.000	90.000	179.676	9253.997	41.681	0.000	42.741	-0.000	41.681	0.000	0.000	43.167	40.013	21.594	MWD+IFR1+MS
13200.000	90.000	179.676	9253.997	42.302	0.000	43.217	-0.000	42.302	0.000	0.000	43.606	40.066	19.424	MWD+IFR1+MS
13300.000	90.000	179.676	9253.997	42.927	0.000	43.700	-0.000	42.927	0.000	0.000	44.061	40.112	17.650	MWD+IFR1+MS
13400.000	90.000	179.676	9253.997	43.558	0.000	44.191	-0.000	43.558	0.000	0.000	44.528	40.154	16.181	MWD+IFR1+MS
13500.000	90.000	179.676	9253.997	44.194	0.000	44.690	-0.000	44.194	0.000	0.000	45.008	40.192	14.948	MWD+IFR1+MS
13600.000	90.000	179.676	9253.997	44.834	0.000	45.197	-0.000	44.834	0.000	0.000	45.498	40.227	13.901	MWD+IFR1+MS
13700.000	90.000	179.676	9253.997	45.479	0.000	45.711	-0.000	45.479	0.000	0.000	45.997	40.261	13.001	MWD+IFR1+MS
13800.000	90.000	179.676	9253.997	46.129	0.000	46.232	-0.000	46.129	0.000	0.000	46.506	40.293	12.221	MWD+IFR1+MS
13900.000	90.000	179.676	9253.997	46.782	0.000	46.759	-0.000	46.782	0.000	0.000	47.023	40.324	11.537	MWD+IFR1+MS
14000.000	90.000	179.676	9253.997	47.440	0.000	47.293	-0.000	47.440	0.000	0.000	47.547	40.355	10.934	MWD+IFR1+MS
14100.000	90.000	179.676	9253.997	48.101	0.000	47.833	-0.000	48.101	0.000	0.000	48.079	40.385	10.396	MWD+IFR1+MS
14200.000	90.000	179.676	9253.997	48.766	0.000	48.380	-0.000	48.766	0.000	0.000	48.618	40.414	9.915	MWD+IFR1+MS
14300.000	90.000	179.676	9253.997	49.434	0.000	48.932	-0.000	49.434	0.000	0.000	49.163	40.443	9.482	MWD+IFR1+MS
14400.000	90.000	179.676	9253.997	50.106	0.000	49.490	-0.000	50.106	0.000	0.000	49.715	40.473	9.089	MWD+IFR1+MS
14500.000	90.000	179.676	9253.997	50.781	0.000	50.053	-0.000	50.781	0.000	0.000	50.272	40.502	8.731	MWD+IFR1+MS
14600.000	90.000	179.676	9253.997	51.459	0.000	50.622	-0.000	51.459	0.000	0.000	50.836	40.531	8.403	MWD+IFR1+MS
14700.000	90.000	179.676	9253.997	52.140	0.000	51.196	-0.000	52.140	0.000	0.000	51.405	40.561	8.102	MWD+IFR1+MS
14800.000	90.000	179.676	9253.997	52.825	0.000	51.775	-0.000	52.825	0.000	0.000	51.979	40.590	7.824	MWD+IFR1+MS
14900.000	90.000	179.676	9253.997	53.511	0.000	52.358	-0.000	53.511	0.000	0.000	52.558	40.620	7.567	MWD+IFR1+MS
15000.000	90.000	179.676	9253.997	54.201	0.000	52.947	-0.000	54.201	0.000	0.000	53.142	40.650	7.328	MWD+IFR1+MS
15100.000	90.000	179.676	9253.997	54.893	0.000	53.539	-0.000	54.893	0.000	0.000	53.731	40.680	7.105	MWD+IFR1+MS
15200.000	90.000	179.676	9253.997	55.587	0.000	54.136	-0.000	55.587	0.000	0.000	54.325	40.711	6.897	MWD+IFR1+MS
15300.000	90.000	179.676	9253.997	56.284	0.000	54.738	-0.000	56.284	0.000	0.000	54.923	40.742	6.702	MWD+IFR1+MS
15400.000	90.000	179.676	9253.997	56.983	0.000	55.343	-0.000	56.983	0.000	0.000	55.525	40.773	6.519	MWD+IFR1+MS
15500.000	90.000	179.676	9253.997	57.685	0.000	55.952	-0.000	57.685	0.000	0.000	56.131	40.805	6.347	MWD+IFR1+MS
15600.000	90.000	179.676	9253.997	58.388	0.000	56.565	-0.000	58.388	0.000	0.000	56.741	40.837	6.184	MWD+IFR1+MS
15700.000	90.000	179.676	9253.997	59.094	0.000	57.182	-0.000	59.094	0.000	0.000	57.355	40.869	6.030	MWD+IFR1+MS
15800.000	90.000	179.676	9253.997	59.801	0.000	57.802	-0.000	59.801	0.000	0.000	57.973	40.902	5.885	MWD+IFR1+MS

15900.000	90.000	179.676	9253.997	60.511	0.000	58.426	-0.000	60.511	0.000	0.000	58.594	40.935	5.747	MWD+IFR1+MS
16000.000	90.000	179.676	9253.997	61.222	0.000	59.053	-0.000	61.222	0.000	0.000	59.219	40.968	5.616	MWD+IFR1+MS
16100.000	90.000	179.676	9253.997	61.935	0.000	59.683	-0.000	61.935	0.000	0.000	59.847	41.002	5.491	MWD+IFR1+MS
16200.000	90.000	179.676	9253.997	62.650	0.000	60.317	-0.000	62.650	0.000	0.000	60.478	41.037	5.372	MWD+IFR1+MS
16300.000	90.000	179.676	9253.997	63.366	0.000	60.953	-0.000	63.366	0.000	0.000	61.112	41.071	5.259	MWD+IFR1+MS
16400.000	90.000	179.676	9253.997	64.084	0.000	61.593	-0.000	64.084	0.000	0.000	61.749	41.106	5.150	MWD+IFR1+MS
16500.000	90.000	179.676	9253.997	64.804	0.000	62.235	-0.000	64.804	0.000	0.000	62.390	41.142	5.047	MWD+IFR1+MS
16600.000	90.000	179.676	9253.997	65.525	0.000	62.880	-0.000	65.525	0.000	0.000	63.033	41.178	4.947	MWD+IFR1+MS
16700.000	90.000	179.676	9253.997	66.247	0.000	63.528	-0.000	66.247	0.000	0.000	63.679	41.215	4.852	MWD+IFR1+MS
16800.000	90.000	179.676	9253.997	66.971	0.000	64.178	-0.000	66.971	0.000	0.000	64.327	41.251	4.760	MWD+IFR1+MS
16900.000	90.000	179.676	9253.997	67.696	0.000	64.831	-0.000	67.696	0.000	0.000	64.978	41.289	4.673	MWD+IFR1+MS
17000.000	90.000	179.676	9253.997	68.423	0.000	65.486	-0.000	68.423	0.000	0.000	65.631	41.327	4.588	MWD+IFR1+MS
17100.000	90.000	179.676	9253.997	69.151	0.000	66.144	-0.000	69.151	0.000	0.000	66.287	41.365	4.507	MWD+IFR1+MS
17200.000	90.000	179.676	9253.997	69.880	0.000	66.804	-0.000	69.880	0.000	0.000	66.946	41.403	4.428	MWD+IFR1+MS
17300.000	90.000	179.676	9253.997	70.610	0.000	67.466	-0.000	70.610	0.000	0.000	67.606	41.443	4.353	MWD+IFR1+MS
17400.000	90.000	179.676	9253.997	71.341	0.000	68.130	-0.000	71.341	0.000	0.000	68.269	41.482	4.280	MWD+IFR1+MS
17500.000	90.000	179.676	9253.997	72.074	0.000	68.797	-0.000	72.074	0.000	0.000	68.934	41.522	4.209	MWD+IFR1+MS
17600.000	90.000	179.676	9253.997	72.808	0.000	69.465	-0.000	72.808	0.000	0.000	69.601	41.563	4.141	MWD+IFR1+MS
17700.000	90.000	179.676	9253.997	73.542	0.000	70.136	-0.000	73.542	0.000	0.000	70.270	41.603	4.075	MWD+IFR1+MS
17800.000	90.000	179.676	9253.997	74.278	0.000	70.808	-0.000	74.278	0.000	0.000	70.941	41.645	4.012	MWD+IFR1+MS
17900.000	90.000	179.676	9253.997	75.015	0.000	71.482	-0.000	75.015	0.000	0.000	71.614	41.686	3.950	MWD+IFR1+MS
18000.000	90.000	179.676	9253.997	75.752	0.000	72.158	-0.000	75.752	0.000	0.000	72.289	41.729	3.890	MWD+IFR1+MS
18100.000	90.000	179.676	9253.997	76.491	0.000	72.836	-0.000	76.491	0.000	0.000	72.965	41.771	3.832	MWD+IFR1+MS
18200.000	90.000	179.676	9253.997	77.231	0.000	73.516	-0.000	77.231	0.000	0.000	73.643	41.814	3.776	MWD+IFR1+MS
18300.000	90.000	179.676	9253.997	77.971	0.000	74.197	-0.000	77.971	0.000	0.000	74.323	41.858	3.721	MWD+IFR1+MS
18400.000	90.000	179.676	9253.997	78.712	0.000	74.880	-0.000	78.712	0.000	0.000	75.005	41.902	3.668	MWD+IFR1+MS
18500.000	90.000	179.676	9253.997	79.454	0.000	75.564	-0.000	79.454	0.000	0.000	75.688	41.946	3.617	MWD+IFR1+MS
18600.000	90.000	179.676	9253.997	80.197	0.000	76.250	-0.000	80.197	0.000	0.000	76.373	41.991	3.567	MWD+IFR1+MS
18700.000	90.000	179.676	9253.997	80.941	0.000	76.938	-0.000	80.941	0.000	0.000	77.059	42.036	3.518	MWD+IFR1+MS
18800.000	90.000	179.676	9253.997	81.685	0.000	77.627	-0.000	81.685	0.000	0.000	77.747	42.082	3.471	MWD+IFR1+MS
18900.000	90.000	179.676	9253.997	82.431	0.000	78.317	-0.000	82.431	0.000	0.000	78.437	42.128	3.424	MWD+IFR1+MS
19000.000	90.000	179.676	9253.997	83.177	0.000	79.009	-0.000	83.177	0.000	0.000	79.127	42.175	3.379	MWD+IFR1+MS
19100.000	90.000	179.676	9253.997	83.923	0.000	79.702	-0.000	83.923	0.000	0.000	79.819	42.222	3.336	MWD+IFR1+MS

19200.000	90.000	179.676	9253.997	84.671	0.000	80.397	-0.000	84.671	0.000	0.000	80.513	42.269	3.293	MWD+IFR1+MS
19300.000	90.000	179.676	9253.997	85.419	0.000	81.092	-0.000	85.419	0.000	0.000	81.207	42.317	3.251	MWD+IFR1+MS
19400.000	90.000	179.676	9253.997	86.167	0.000	81.789	-0.000	86.167	0.000	0.000	81.903	42.366	3.211	MWD+IFR1+MS
19500.000	90.000	179.676	9253.997	86.917	0.000	82.488	-0.000	86.917	0.000	0.000	82.601	42.415	3.171	MWD+IFR1+MS
19600.000	90.000	179.676	9253.997	87.667	0.000	83.187	-0.000	87.667	0.000	0.000	83.299	42.464	3.133	MWD+IFR1+MS
19700.000	90.000	179.676	9253.997	88.417	0.000	83.887	-0.000	88.417	0.000	0.000	83.999	42.513	3.095	MWD+IFR1+MS
19800.000	90.000	179.676	9253.997	89.168	0.000	84.589	-0.000	89.168	0.000	0.000	84.699	42.563	3.058	MWD+IFR1+MS
19900.000	90.000	179.676	9253.997	89.920	0.000	85.292	-0.000	89.920	0.000	0.000	85.401	42.614	3.022	MWD+IFR1+MS
20000.000	90.000	179.676	9253.997	90.672	0.000	85.996	-0.000	90.672	0.000	0.000	86.104	42.665	2.987	MWD+IFR1+MS
20100.000	90.000	179.676	9253.997	91.425	0.000	86.701	-0.000	91.425	0.000	0.000	86.808	42.716	2.952	MWD+IFR1+MS
20200.000	90.000	179.676	9253.997	92.178	0.000	87.407	-0.000	92.178	0.000	0.000	87.513	42.768	2.919	MWD+IFR1+MS
20300.000	90.000	179.676	9253.997	92.932	0.000	88.113	-0.000	92.932	0.000	0.000	88.219	42.820	2.886	MWD+IFR1+MS
20400.000	90.000	179.676	9253.997	93.687	0.000	88.821	-0.000	93.687	0.000	0.000	88.926	42.873	2.854	MWD+IFR1+MS
20500.000	90.000	179.676	9253.997	94.442	0.000	89.530	-0.000	94.442	0.000	0.000	89.634	42.926	2.822	MWD+IFR1+MS
20600.000	90.000	179.676	9253.997	95.197	0.000	90.240	-0.000	95.197	0.000	0.000	90.343	42.979	2.791	MWD+IFR1+MS
20700.000	90.000	179.676	9253.997	95.953	0.000	90.951	-0.000	95.953	0.000	0.000	91.053	43.033	2.761	MWD+IFR1+MS
20800.000	90.000	179.676	9253.997	96.709	0.000	91.662	-0.000	96.709	0.000	0.000	91.764	43.087	2.731	MWD+IFR1+MS
20900.000	90.000	179.676	9253.997	97.466	0.000	92.375	-0.000	97.466	0.000	0.000	92.475	43.142	2.702	MWD+IFR1+MS
21000.000	90.000	179.676	9253.997	98.223	0.000	93.088	-0.000	98.223	0.000	0.000	93.188	43.197	2.674	MWD+IFR1+MS
21100.000	90.000	179.676	9253.997	98.981	0.000	93.802	-0.000	98.981	0.000	0.000	93.901	43.253	2.646	MWD+IFR1+MS
21200.000	90.000	179.676	9253.997	99.739	0.000	94.517	-0.000	99.739	0.000	0.000	94.615	43.309	2.619	MWD+IFR1+MS
21300.000	90.000	179.676	9253.997	100.497	0.000	95.232	-0.000	100.497	0.000	0.000	95.330	43.365	2.592	MWD+IFR1+MS
21400.000	90.000	179.676	9253.997	101.256	0.000	95.949	-0.000	101.256	0.000	0.000	96.046	43.422	2.566	MWD+IFR1+MS
21500.000	90.000	179.676	9253.997	102.015	0.000	96.666	-0.000	102.015	0.000	0.000	96.762	43.479	2.540	MWD+IFR1+MS
21600.000	90.000	179.676	9253.997	102.775	0.000	97.384	-0.000	102.775	0.000	0.000	97.480	43.536	2.514	MWD+IFR1+MS
21700.000	90.000	179.676	9253.997	103.535	0.000	98.103	-0.000	103.535	0.000	0.000	98.198	43.594	2.490	MWD+IFR1+MS
21800.000	90.000	179.676	9253.997	104.295	0.000	98.822	-0.000	104.295	0.000	0.000	98.916	43.653	2.465	MWD+IFR1+MS
21900.000	90.000	179.676	9253.997	105.056	0.000	99.542	-0.000	105.056	0.000	0.000	99.636	43.711	2.441	MWD+IFR1+MS
22000.000	90.000	179.676	9253.997	105.817	0.000	100.263	-0.000	105.817	0.000	0.000	100.356	43.771	2.418	MWD+IFR1+MS
22100.000	90.000	179.676	9253.997	106.578	0.000	100.984	-0.000	106.578	0.000	0.000	101.077	43.830	2.395	MWD+IFR1+MS
22200.000	90.000	179.676	9253.997	107.340	0.000	101.706	-0.000	107.340	0.000	0.000	101.798	43.890	2.372	MWD+IFR1+MS
22300.000	90.000	179.676	9253.997	108.102	0.000	102.429	-0.000	108.102	0.000	0.000	102.520	43.950	2.350	MWD+IFR1+MS
22400.000	90.000	179.676	9253.997	108.864	0.000	103.152	-0.000	108.864	0.000	0.000	103.243	44.011	2.328	MWD+IFR1+MS

22500.000	90.000	179.676	9253.997	109.627	0.000	103.876	-0.000	109.627	0.000	0.000	103.966	44.072	2.306	MWD+IFR1+MS
22600.000	90.000	179.676	9253.997	110.390	0.000	104.601	-0.000	110.390	0.000	0.000	104.690	44.134	2.285	MWD+IFR1+MS
22700.000	90.000	179.676	9253.997	111.154	0.000	105.326	-0.000	111.154	0.000	0.000	105.414	44.196	2.264	MWD+IFR1+MS
22800.000	90.000	179.676	9253.997	111.917	0.000	106.051	-0.000	111.917	0.000	0.000	106.139	44.258	2.244	MWD+IFR1+MS
22900.000	90.000	179.676	9253.997	112.681	0.000	106.777	-0.000	112.681	0.000	0.000	106.865	44.321	2.224	MWD+IFR1+MS
23000.000	90.000	179.676	9253.997	113.445	0.000	107.504	-0.000	113.445	0.000	0.000	107.591	44.384	2.204	MWD+IFR1+MS
23100.000	90.000	179.676	9253.997	114.210	0.000	108.231	-0.000	114.210	0.000	0.000	108.318	44.447	2.184	MWD+IFR1+MS
23200.000	90.000	179.676	9253.997	114.975	0.000	108.959	-0.000	114.975	0.000	0.000	109.045	44.511	2.165	MWD+IFR1+MS
23300.000	90.000	179.676	9253.997	115.740	0.000	109.688	-0.000	115.740	0.000	0.000	109.773	44.575	2.146	MWD+IFR1+MS
23400.000	90.000	179.676	9253.997	116.505	0.000	110.416	-0.000	116.505	0.000	0.000	110.501	44.639	2.128	MWD+IFR1+MS
23500.000	90.000	179.676	9253.997	117.270	0.000	111.146	-0.000	117.270	0.000	0.000	111.230	44.704	2.109	MWD+IFR1+MS
23600.000	90.000	179.676	9253.997	118.036	0.000	111.875	-0.000	118.036	0.000	0.000	111.959	44.770	2.091	MWD+IFR1+MS
23700.000	90.000	179.676	9253.997	118.802	0.000	112.606	-0.000	118.802	0.000	0.000	112.689	44.835	2.074	MWD+IFR1+MS
23800.000	90.000	179.676	9253.997	119.569	0.000	113.336	-0.000	119.569	0.000	0.000	113.419	44.901	2.056	MWD+IFR1+MS
23900.000	90.000	179.676	9253.997	120.335	0.000	114.068	-0.000	120.335	0.000	0.000	114.150	44.968	2.039	MWD+IFR1+MS
24000.000	90.000	179.676	9253.997	121.102	0.000	114.799	-0.000	121.102	0.000	0.000	114.881	45.035	2.022	MWD+IFR1+MS
24100.000	90.000	179.676	9253.997	121.869	0.000	115.531	-0.000	121.869	0.000	0.000	115.612	45.102	2.005	MWD+IFR1+MS
24200.000	90.000	179.676	9253.997	122.636	0.000	116.264	-0.000	122.636	0.000	0.000	116.344	45.169	1.989	MWD+IFR1+MS
24300.000	90.000	179.676	9253.997	123.403	0.000	116.997	-0.000	123.403	0.000	0.000	117.077	45.237	1.973	MWD+IFR1+MS
24400.000	90.000	179.676	9253.997	124.171	0.000	117.730	-0.000	124.171	0.000	0.000	117.810	45.305	1.957	MWD+IFR1+MS
24500.000	90.000	179.676	9253.997	124.939	0.000	118.464	-0.000	124.939	0.000	0.000	118.543	45.374	1.941	MWD+IFR1+MS
24600.000	90.000	179.676	9253.997	125.707	0.000	119.198	-0.000	125.707	0.000	0.000	119.277	45.443	1.925	MWD+IFR1+MS
24700.000	90.000	179.676	9253.997	126.475	0.000	119.933	-0.000	126.475	0.000	0.000	120.011	45.512	1.910	MWD+IFR1+MS
24800.000	90.000	179.676	9253.997	127.244	0.000	120.668	-0.000	127.244	0.000	0.000	120.745	45.582	1.895	MWD+IFR1+MS
24900.000	90.000	179.676	9253.997	128.013	0.000	121.403	-0.000	128.013	0.000	0.000	121.480	45.652	1.880	MWD+IFR1+MS
25000.000	90.000	179.676	9253.997	128.781	0.000	122.139	-0.000	128.781	0.000	0.000	122.215	45.722	1.865	MWD+IFR1+MS
25100.000	90.000	179.676	9253.997	129.550	0.000	122.875	-0.000	129.550	0.000	0.000	122.951	45.793	1.851	MWD+IFR1+MS
25200.000	90.000	179.676	9253.997	130.320	0.000	123.611	-0.000	130.320	0.000	0.000	123.687	45.864	1.837	MWD+IFR1+MS
25300.000	90.000	179.676	9253.997	131.089	0.000	124.348	-0.000	131.089	0.000	0.000	124.423	45.935	1.822	MWD+IFR1+MS
25400.000	90.000	179.676	9253.997	131.859	0.000	125.085	-0.000	131.859	0.000	0.000	125.160	46.007	1.809	MWD+IFR1+MS
25500.000	90.000	179.676	9253.997	132.629	0.000	125.823	-0.000	132.629	0.000	0.000	125.897	46.079	1.795	MWD+IFR1+MS
25600.000	90.000	179.676	9253.997	133.399	0.000	126.560	-0.000	133.399	0.000	0.000	126.634	46.151	1.781	MWD+IFR1+MS
25700.000	90.000	179.676	9253.997	134.169	0.000	127.298	-0.000	134.169	0.000	0.000	127.372	46.224	1.768	MWD+IFR1+MS

25800.000	90.000	179.676	9253.997	134.939	0.000	128.037	-0.000	134.939	0.000	0.000	128.110	46.297	1.755	MWD+IFR1+MS
25900.000	90.000	179.676	9253.997	135.709	0.000	128.776	-0.000	135.709	0.000	0.000	128.849	46.371	1.742	MWD+IFR1+MS
26000.000	90.000	179.676	9253.997	136.480	0.000	129.515	-0.000	136.480	0.000	0.000	129.587	46.444	1.729	MWD+IFR1+MS
26100.000	90.000	179.676	9253.997	137.251	0.000	130.254	-0.000	137.251	0.000	0.000	130.326	46.518	1.716	MWD+IFR1+MS
26200.000	90.000	179.676	9253.997	138.022	0.000	130.994	-0.000	138.022	0.000	0.000	131.065	46.593	1.704	MWD+IFR1+MS
26300.000	90.000	179.676	9253.997	138.793	0.000	131.734	-0.000	138.793	0.000	0.000	131.805	46.668	1.691	MWD+IFR1+MS
26400.000	90.000	179.676	9253.997	139.564	0.000	132.474	-0.000	139.564	0.000	0.000	132.545	46.743	1.679	MWD+IFR1+MS
26500.000	90.000	179.676	9253.997	140.336	0.000	133.215	-0.000	140.336	0.000	0.000	133.285	46.818	1.667	MWD+IFR1+MS
26600.000	90.000	179.676	9253.997	141.107	0.000	133.955	-0.000	141.107	0.000	0.000	134.026	46.894	1.655	MWD+IFR1+MS
26700.000	90.000	179.676	9253.997	141.879	0.000	134.696	-0.000	141.879	0.000	0.000	134.766	46.970	1.643	MWD+IFR1+MS
26800.000	90.000	179.676	9253.997	142.651	0.000	135.438	-0.000	142.651	0.000	0.000	135.507	47.046	1.632	MWD+IFR1+MS
26900.000	90.000	179.676	9253.997	143.423	0.000	136.180	-0.000	143.423	0.000	0.000	136.249	47.123	1.620	MWD+IFR1+MS
27000.000	90.000	179.676	9253.997	144.195	0.000	136.921	-0.000	144.195	0.000	0.000	136.990	47.200	1.609	MWD+IFR1+MS
27100.000	90.000	179.676	9253.997	144.967	0.000	137.664	-0.000	144.967	0.000	0.000	137.732	47.277	1.598	MWD+IFR1+MS
27200.000	90.000	179.676	9253.997	145.740	0.000	138.406	-0.000	145.740	0.000	0.000	138.474	47.355	1.587	MWD+IFR1+MS
27300.000	90.000	179.676	9253.997	146.512	0.000	139.149	-0.000	146.512	0.000	0.000	139.216	47.433	1.576	MWD+IFR1+MS
27400.000	90.000	179.676	9253.997	147.285	0.000	139.892	-0.000	147.285	0.000	0.000	139.959	47.511	1.565	MWD+IFR1+MS
27470.265	90.000	179.676	9253.997	147.827	0.000	140.413	-0.000	147.827	0.000	0.000	140.480	47.566	1.557	MWD+IFR1+MS
27500.000	90.000	179.676	9253.997	148.057	0.000	140.634	-0.000	148.057	0.000	0.000	140.700	47.590	1.554	MWD+IFR1+MS
27519.607	90.000	179.676	9253.997	148.208	0.000	140.779	-0.000	148.208	0.000	0.000	140.846	47.605	1.552	MWD+IFR1+MS

Plan Targets

Poker Lake Unit 20 DTD South 121H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 5	9523.74	440363.70	630858.10	6002.00	RECTANGLE
SHL 3	11492.63	439534.11	631727.37	7341.23	RECTANGLE
LTP 5	27420.14	422013.20	630961.10	6002.00	RECTANGLE
BHL 5	27469.93	421963.20	630961.40	6002.00	RECTANGLE



ALL DIMENSIONS APPROXIMATE

XTO ENERGY INC
DELAWARE BASIN

(20") x 13-3/8" x 9-5/8" x 6" MBU-3T-CFL-R-DBLO-SF Wellhead
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And Drilling & Skid Configurations

DRAWN

DLE

04NOV22

APPRV

DRAWING NO.

HBE0000833

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 342104

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 342104
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	6/6/2024