

<b>Well Name:</b> POKER LAKE 23 DTD FEDERAL COM	<b>Well Location:</b> T24S / R30E / SEC 23 / SWSW / 32.211731 / -103.858072	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 151Y	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMLC068905	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 300155441500X1	<b>Well Status:</b> Drilling Well	<b>Operator:</b> XTO PERMIAN OPERATING LLC

Notice of Intent

**Sundry ID:** 2773874

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 02/07/2024

**Time Sundry Submitted:** 10:34

**Date proposed operation will begin:** 03/04/2024

**Procedure Description:** XTO Permian Operating, LLC. respectfully requests approval for the following changes: 1. Skid the original well bore to a replacement well bore. 2. Change the name of the original well, Poker Lake Unit 23 DTD 151H (API 30-015-54415) (Plugged & Abandoned) to Poker Lake Unit 23 DTD 151Y. 3. Replacement well will be called the Poker Lake Unit 23 DTD 151H (API number to be assigned). 4. The new location for the replacement well will be: SHL: 366' FSL & 621' FWL of Section 14-T24S-R30E FTP: 500' FNL & 670' FWL of Section 23-T24S-R30E BHL: 230' FNL & 670' FWL of Section 2-T24S-R30E LTP: 330' FNL & 670' FWL of Section 2-T24S-R30E 5. The proposed total depth of this new well will be 28972' MD/12195' TVD. 6. There will not be any new surface disturbance. Attachments: Form 3160-003, C-102, Drilling Plan, Directional Drilling Plan and MBS

NOI Attachments

Procedure Description

PLU\_23\_DTD\_151H\_Skid\_Rig\_Sundry\_attachments\_2\_7\_2024\_20240207103422.pdf

Received by OCD: 3/6/2024 7:10:52 AM

Well Name: POKER LAKE 23 DTD  
FEDERAL COM

Well Location: T24S / R30E / SEC 23 /  
SWSW / 32.211731 / -103.858072

County or Parish/State: EDDY /  
NM

Well Number: 151Y

Type of Well: CONVENTIONAL GAS  
WELL

Allottee or Tribe Name:

Lease Number: NMLC068905

Unit or CA Name:

Unit or CA Number:

US Well Number: 300155441500X1

Well Status: Drilling Well

Operator: XTO PERMIAN  
OPERATING LLC

Conditions of Approval

Specialist Review

PLU\_23\_DTD\_151H\_3160signed\_20240216131018.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: RANELL (RUSTY) KLEIN

Signed on: FEB 07, 2024 10:34 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLANDState: TX

Phone: (432) 620-6700

Email address: RANELL.KLEIN@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 02/16/2024

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.*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.
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8. Well Name and No.
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9. API Well No.	
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10. Field and Pool or Exploratory Area
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11. Country or Parish, State
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12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input 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"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
<input type="checkbox"/> Final Abandonment Notice	<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 recompleting 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 performed 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 recompleting 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 determined that the site is ready for final inspection.)

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

## THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on page 2)

## GENERAL INSTRUCTIONS

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

## SPECIFIC INSTRUCTIONS

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

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

## NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

## Additional Information

## Additional Remarks

Attachments: Form 3160-003, C-102, Drilling Plan, Directional Drilling Plan and MBS

## Location of Well

0. SHL: SWSW / 366 FSL / 681 FWL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.211731 / LONG: -103.858072 ( TVD: 0 feet, MD: 0 feet )

PPP: SWSW / 100 FSL / 670 FWL / TWSP: 24S / RANGE: 30E / SECTION: 14 / LAT: 32.210887 / LONG: -103.85854 ( TVD: 11445 feet, MD: 11900 feet )

BHL: LOT 4 / 230 FNL / 670 FWL / TWSP: 24S / RANGE: 30E / SECTION: 2 / LAT: 32.25356 / LONG: -103.858825 ( TVD: 12260 feet, MD: 28153 feet )

Form 3160-3  
(June 2019)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021

1a. Type of work: <input checked="" type="checkbox"/> DRILL Skid Rig <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM0030452Do
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator XTO Permian Operating, LLC.		8. Lease Name and Well No. Poker Lake Unit 23 DTD 151H
3a. Address 6401 Holiday Hills Road, Bldg. 5, Midland, TX 79707		9. API Well No. <b>30-015-54820</b>
3b. Phone No. (include area code) (432) 682-8873		10. Field and Pool, or Exploratory Purple Sage; Wolfcamp (gas)
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSW/366' FSL & 621' FWL/14-T24S-30E (Lat. 32.211620; Long -103.858266) At proposed prod. zone Lot 4/230' FNL & 670' FWL/2-T24S-R30E (Lat 32.253479/-103.858081)		11. Sec., T. R. M. or Blk. and Survey or Area Section 23-T24S-R30E
14. Distance in miles and direction from nearest town or post office* 27 miles		12. County or Parish Eddy
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 366 feet		13. State NM
16. No of acres in lease		17. Spacing Unit dedicated to this well 520.37
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet		19. Proposed Depth 28972' MD/12195' TVD
20. BLM/BIA Bond No. in file Federal: COB000050		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3448' GR
22. Approximate date work will start* ASAP after approval		23. Estimated duration 45 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM.            |

25. Signature <i>Rusty Klein</i>	Name (Printed/Typed) RUSTY KLEIN	Date 02/07/2024
Title Regulatory Analyst		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval 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.  
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

\*(Instructions on page 2)



## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM I:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**ITEM 24:** If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, when applicable by 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 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., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 L.S., Washington, D.C. 20240.

(Form 3160-3, page 2)

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

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

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

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

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

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-54820</b>	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name Purple Sage; Wolfcamp (gas)
<sup>4</sup> Property Code 325598	<sup>5</sup> Property Name <b>POKER LAKE UNIT 23 DTD</b>	
<sup>6</sup> Well Number <b>151H</b>	<sup>7</sup> Elevation <b>3,448'</b>	
<sup>8</sup> GRID No. <b>373075</b>	<sup>9</sup> Operator Name <b>XTO PERMIAN OPERATING, LLC.</b>	

<sup>10</sup> Surface Location

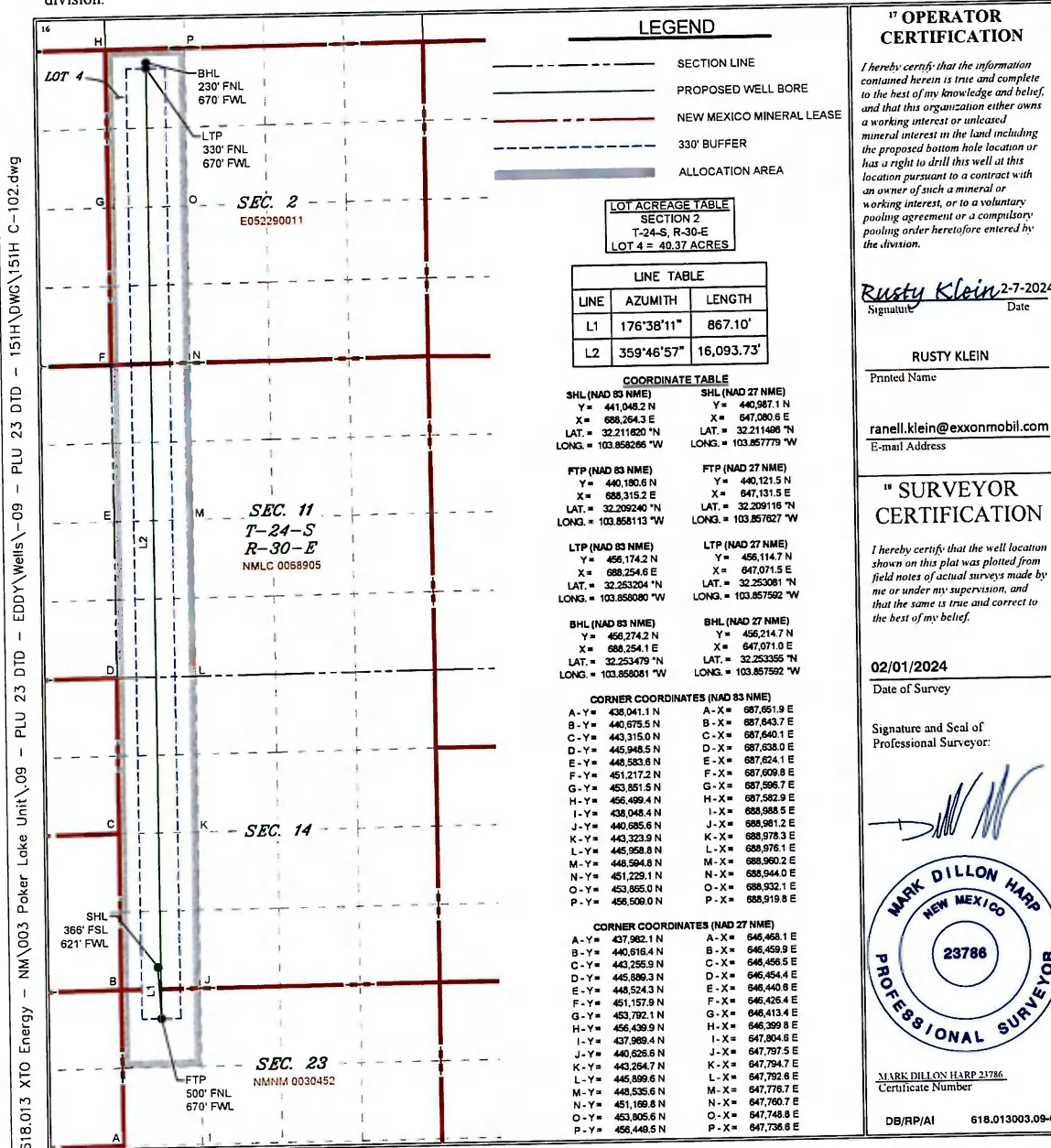
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>M</b>	<b>14</b>	<b>24S</b>	<b>30E</b>		<b>366</b>	<b>SOUTH</b>	<b>621</b>	<b>WEST</b>	<b>EDDY</b>

<sup>11</sup> 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
<b>4</b>	<b>2</b>	<b>24S</b>	<b>30E</b>		<b>230</b>	<b>NORTH</b>	<b>670</b>	<b>WEST</b>	<b>EDDY</b>

<sup>12</sup> Dedicated Acres <b>520.37</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





Intent ☒ As Drilled ☐

API # 30-015-		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: POKER LAKE UNIT 23 DTD	Well Number 151H

## 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
D	23	24S	30E		500	North	670	West	Eddy
Latitude					Longitude				NAD
32.209240					-103.858113				83

## Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
4	2	24S	30E		330	North	670	West	Eddy
Latitude					Longitude				NAD
32.253204					-103.858080				83

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.  
POKER LAKE UNIT 23 DTD - 151H  
Projected TD: 28972.41' MD / 12195' TVD  
SHL: 366' FSL & 621' FWL , Section 14, T24S, R30E  
BHL: 230' FNL & 670' FWL , Section 2, T24S, 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	645'	Water
Top of Salt	999'	Water
Base of Salt	3836'	Water
Delaware	4045'	Water
Brushy Canyon	6256'	Water/Oil/Gas
Bone Spring	7909'	Water
1st Bone Spring Ss	8846'	Water/Oil/Gas
2nd Bone Spring Ss	9713'	Water/Oil/Gas
3rd Bone Spring Sh	10354'	Water/Oil/Gas
Wolfcamp	11165'	Water/Oil/Gas
Wolfcamp X	11198'	Water/Oil/Gas
Wolfcamp Y	11283'	Water/Oil/Gas
Wolfcamp A	11327'	Water/Oil/Gas
Wolfcamp B	11775'	Water/Oil/Gas
Wolfcamp D	12095'	Water/Oil/Gas
Target/Land Curve	12194'	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 20 inch casing @ 974' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13.375 inch casing at 3936' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 9.625 inch casing at 11278.8' and cementing to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 28972.41 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 10978.8 feet) per Potash regulations.

**3. Casing Design**

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
26	0' - 974'	20	94	J-55	BTC	New	2.41	1.27	11.76
17.5	0' - 3936'	13.375	68	HC L-80	BTC	New	1.79	3.02	5.77
12.25	0' - 4036'	9.625	40	HC P-110	BTC	New	1.42	2.24	2.81
12.25	4036' - 11278.8'	9.625	40	HC L-80	BTC	New	1.03	2.08	3.16
8.5	0' - 11178.8'	5.5	23	RY P-110	Semi-Premium	New	1.21	1.92	1.71
8.5	11178.8' - 28972.41'	5.5	23	RY P-110	Semi-Flush	New	1.21	1.76	4.19

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

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface and intermediate 1 casing per this Sundry

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

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

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

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

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

**Wellhead:**

*Permanent Wellhead – Multibowl System*

A. Starting Head: 24" 5M QC x 13-3/8" bottom

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

· Wellhead will be installed by manufacturer's representatives.

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

· Operator will test the 7-5/8" casing per BLM Onshore Order 2

· Wellhead Manufacturer representative will not be present for BOP test plug installation

**4. Cement Program****Surface Casing: 20, 94 New BTC, J-55 casing to be set at +/- 974'**

Optional Lead: 1520 sxs EconoCem-HLTRRC (mixed at 12.8 ppg, 1.33 ft<sup>3</sup>/sx, 10.13 gal/sx water)

Tail: 670 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft<sup>3</sup>/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 250 psi 24 hr = 500 psi

Due to the high probability of not getting cement to surface during conventional top-out jobs in the area, ~10-20 ppb gravel will be added on the backside of the 1" to get cement to surface, if required.

**1st Intermediate Casing: 13.375, 68 New BTC, HC L-80 casing to be set at +/- 3936'**

Lead: 1830 sxs Class C (mixed at 12.9 ppg, 2.06 ft<sup>3</sup>/sx, 10.13 gal/sx water)

Tail: 150 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 2.06 ft<sup>3</sup>/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 +/- 11278.8'****1st Stage**

Optional Lead: 390 sxs Class C (mixed at 10.5 ppg, 2.77 ft<sup>3</sup>/sx, 15.59 gal/sx water)

TOC: 3636

Tail: 1670 sxs Class C (mixed at 14.8 ppg, 1.27 ft<sup>3</sup>/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6256

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

**2nd Stage - bradenhead contingency**

Tail: 420 sxs Class C (mixed at 14.8 ppg, 2.77 ft<sup>3</sup>/sx, 6.39 gal/sx water)

Top of Cement: 3636

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6256') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface. 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 wellhead provider procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

**Production Casing: 5.5, 23 New Semi-Flush, RY P-110 casing to be set at +/- 28972.41'**

Lead: 70 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft<sup>3</sup>/sx, 15.00 gal/sx water) Top of Cement: 10978.8 feet

Tail: 3000 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft<sup>3</sup>/sx, 8.38 gal/sx water) Top of Cement 11754.1 feet

Compressives: 12-hr = 1375 psi 24 hr = 2285 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

The blow out preventer equipment (BOP) for surf casing / temp. wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 873 psi.

Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" a 10M 3-Ram BOP. MASP should not exceed 5560 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be conducted to at least 50% of the rated working pressure. When nipping up on the 13.375, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping up on the 9.625, the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M 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' - 974'	26	FW/Native	8.1-8.6	35-40	NC
974' - 3936'	17.5	Brine	8.5-9	30-32	NC
3936' to 11278.8'	12.25	BDE/OBM or FW/Brine	9-9.5	30-32	NC
11278.8' to 28972.41'	8.5	OBM	13-13.5	50-60	NC - 20

The necessary mud 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 13-3/8" surface casing with brine solution. A 10.0 ppg -10.5 ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

#### 7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 20 casing.

#### 8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing where necessary. Otherwise, gamma ray will be utilized while actively drilling.

Open hole logging will not be done on this well.

#### 9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 185 to 205 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 8244 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.



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Well Plan Report

Well Plan Report - PLU 23 DTD 151H

Measured Depth: 28972.41 ft  
TVD RKB: 12195.00 ft  
Location  
Cartographic Reference System: New Mexico East - NAD 27  
Northing: 440987.10 ft  
Easting: 647080.60 ft  
RKB: 3480.00 ft  
Ground Level: 3448.00 ft  
North Reference: Grid  
Convergence Angle: 0.25 Deg

Plan Sections PLU 23 DTD 151H

Measured	Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD	RKB (ft)	Y Offset (ft)	X Offset (ft)	Build		Turn		Dogleg	
								Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Target
	0.00	0.00	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	0.00	0.00
	2176.86	21.54	178.06		2151.68	-199.91	6.77	2.00	0.00	0.00	0.00	2.00	0.00
	5398.43	21.54	178.06		5148.32	-1381.89	46.81	0.00	0.00	0.00	0.00	0.00	0.00
	6475.29	0.00	0.00		6200.00	-1581.79	53.59	-2.00	0.00	0.00	0.00	2.00	0.00
	11754.10	0.00	0.00		11478.80	-1581.79	53.59	0.00	0.00	0.00	0.00	0.00	0.00
	12879.10	90.00	359.79		12195.00	-865.60	50.90	8.00	0.00	0.00	0.00	8.00	FTP
	28872.41	90.00	359.79		12195.00	15127.60	-9.10	0.00	0.00	0.00	0.00	0.00	LTP
	28972.41	90.00	359.79		12195.00	15227.60	-9.48	0.00	0.00	0.00	0.00	0.00	BHL

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Position Uncertainty Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool

Well Plan Report

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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth Used (°)
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.000	0.751	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	1.259	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	2.326	0.000	1.698	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	2.108	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	2.375	0.000	2.503	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	2.888	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	2.445	0.000	3.267	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	2.487	0.000	3.642	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	2.533	0.000	4.014	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	2.583	0.000	4.384	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	2.637	0.000	4.752	0.000	4.752	3.849	128.859 MWD+IFR1+MS
1200.000	2.000	178.060	1199.980	4.776	0.000	4.561	-0.000	2.693	0.000	5.078	0.000	5.078	4.225	125.659 MWD+IFR1+MS
1300.000	4.000	178.060	1299.838	5.575	0.000	4.894	-0.000	2.753	0.000	5.825	0.000	5.825	4.604	115.772 MWD+IFR1+MS
1400.000	6.000	178.060	1399.452	6.286	0.000	5.229	-0.000	2.819	0.000	6.530	0.000	6.530	4.945	111.543 MWD+IFR1+MS
1500.000	8.000	178.060	1498.702	6.936	0.000	5.568	-0.000	2.892	0.000	7.189	0.000	7.189	5.279	109.314 MWD+IFR1+MS
1600.000	10.000	178.060	1597.465	7.540	0.000	5.910	-0.000	2.975	0.000	7.808	0.000	7.808	5.614	107.970 MWD+IFR1+MS
1700.000	12.000	178.060	1695.623	8.105	0.000	6.256	-0.000	3.070	0.000	8.396	0.000	8.396	5.951	107.092 MWD+IFR1+MS
1800.000	14.000	178.060	1793.055	8.640	0.000	6.607	-0.000	3.178	0.000	8.956	0.000	8.956	6.292	106.490 MWD+IFR1+MS
1900.000	16.000	178.060	1889.643	9.149	0.000	6.963	-0.000	3.301	0.000	9.494	0.000	9.494	6.640	106.070 MWD+IFR1+MS
2000.000	18.000	178.060	1985.268	9.635	0.000	7.325	-0.000	3.441	0.000	10.013	0.000	10.013	6.993	105.777 MWD+IFR1+MS
2100.000	20.000	178.060	2079.816	10.103	0.000	7.694	-0.000	3.599	0.000	10.514	0.000	10.514	7.353	105.581 MWD+IFR1+MS
2176.860	21.537	178.060	2151.679	10.370	0.000	7.974	-0.000	3.703	0.000	10.818	0.000	10.818	7.635	105.530 MWD+IFR1+MS
2200.000	21.537	178.060	2173.203	10.435	0.000	8.056	-0.000	3.721	0.000	10.880	0.000	10.880	7.720	105.539 MWD+IFR1+MS
2300.000	21.537	178.060	2266.221	10.717	0.000	8.426	-0.000	3.829	0.000	11.143	0.000	11.143	8.098	105.755 MWD+IFR1+MS
2400.000	21.537	178.060	2359.239	11.020	0.000	8.815	-0.000	3.948	0.000	11.430	0.000	11.430	8.488	106.159 MWD+IFR1+MS
2500.000	21.537	178.060	2452.257	11.333	0.000	9.209	-0.000	4.072	0.000	11.724	0.000	11.724	8.882	106.576 MWD+IFR1+MS
2600.000	21.537	178.060	2545.275	11.654	0.000	9.607	-0.000	4.201	0.000	12.026	0.000	12.026	9.280	107.008 MWD+IFR1+MS
2700.000	21.537	178.060	2638.293	11.983	0.000	10.009	-0.000	4.335	0.000	12.335	0.000	12.335	9.682	107.454 MWD+IFR1+MS
2800.000	21.537	178.060	2731.311	12.319	0.000	10.414	-0.000	4.472	0.000	12.650	0.000	12.650	10.086	107.916 MWD+IFR1+MS
2900.000	21.537	178.060	2824.329	12.661	0.000	10.822	-0.000	4.614	0.000	12.972	0.000	12.972	10.493	108.394 MWD+IFR1+MS

## Well Plan Report

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3000.000	21.537	178.060	2917.347	13.010	0.000	11.233	-0.000	4.760	0.000	0.000	13.299	10.902	108.889	MWD+IFR1+MS
3100.000	21.537	178.060	3010.365	13.364	0.000	11.646	-0.000	4.909	0.000	0.000	13.631	11.313	109.403	MWD+IFR1+MS
3200.000	21.537	178.060	3103.383	13.723	0.000	12.062	-0.000	5.061	0.000	0.000	13.969	11.725	109.935	MWD+IFR1+MS
3300.000	21.537	178.060	3196.401	14.087	0.000	12.479	-0.000	5.215	0.000	0.000	14.311	12.139	110.486	MWD+IFR1+MS
3400.000	21.537	178.060	3289.419	14.455	0.000	12.898	-0.000	5.373	0.000	0.000	14.657	12.555	111.058	MWD+IFR1+MS
3500.000	21.537	178.060	3382.437	14.828	0.000	13.318	-0.000	5.533	0.000	0.000	15.007	12.971	111.651	MWD+IFR1+MS
3600.000	21.537	178.060	3475.454	15.204	0.000	13.740	-0.000	5.695	0.000	0.000	15.361	13.389	112.266	MWD+IFR1+MS
3700.000	21.537	178.060	3568.472	15.584	0.000	14.163	-0.000	5.860	0.000	0.000	15.719	13.807	112.904	MWD+IFR1+MS
3800.000	21.537	178.060	3661.490	15.967	0.000	14.588	-0.000	6.027	0.000	0.000	16.080	14.226	113.566	MWD+IFR1+MS
3900.000	21.537	178.060	3754.508	16.353	0.000	15.013	-0.000	6.195	0.000	0.000	16.445	14.646	114.252	MWD+IFR1+MS
4000.000	21.537	178.060	3847.526	16.742	0.000	15.439	-0.000	6.366	0.000	0.000	16.812	15.066	114.963	MWD+IFR1+MS
4100.000	21.537	178.060	3940.544	17.134	0.000	15.867	-0.000	6.539	0.000	0.000	17.183	15.486	115.700	MWD+IFR1+MS
4200.000	21.537	178.060	4033.562	17.528	0.000	16.295	-0.000	6.713	0.000	0.000	17.556	15.907	116.463	MWD+IFR1+MS
4300.000	21.537	178.060	4126.580	17.924	0.000	16.724	-0.000	6.889	0.000	0.000	17.932	16.328	117.253	MWD+IFR1+MS
4400.000	21.537	178.060	4219.598	18.323	0.000	17.153	-0.000	7.067	0.000	0.000	18.310	16.749	118.069	MWD+IFR1+MS
4500.000	21.537	178.060	4312.616	18.723	0.000	17.584	-0.000	7.246	0.000	0.000	18.691	17.171	118.913	MWD+IFR1+MS
4600.000	21.537	178.060	4405.634	19.125	0.000	18.014	-0.000	7.427	0.000	0.000	19.075	17.592	119.783	MWD+IFR1+MS
4700.000	21.537	178.060	4498.652	19.529	0.000	18.446	-0.000	7.609	0.000	0.000	19.460	18.014	120.680	MWD+IFR1+MS
4800.000	21.537	178.060	4591.670	19.935	0.000	18.878	-0.000	7.793	0.000	0.000	19.848	18.435	121.603	MWD+IFR1+MS
4900.000	21.537	178.060	4684.688	20.342	0.000	19.310	-0.000	7.978	0.000	0.000	20.238	18.856	122.552	MWD+IFR1+MS
5000.000	21.537	178.060	4777.706	20.751	0.000	19.743	-0.000	8.165	0.000	0.000	20.630	19.277	123.525	MWD+IFR1+MS
5100.000	21.537	178.060	4870.724	21.161	0.000	20.177	-0.000	8.353	0.000	0.000	21.024	19.698	124.520	MWD+IFR1+MS
5200.000	21.537	178.060	4963.741	21.573	0.000	20.610	-0.000	8.542	0.000	0.000	21.420	20.119	125.538	MWD+IFR1+MS
5300.000	21.537	178.060	5056.759	21.985	0.000	21.044	-0.000	8.733	0.000	0.000	21.818	20.539	126.574	MWD+IFR1+MS
5398.434	21.537	178.060	5148.321	22.392	0.000	21.472	-0.000	8.922	0.000	0.000	22.211	20.953	127.609	MWD+IFR1+MS
5400.000	21.506	178.060	5149.777	22.400	0.000	21.479	-0.000	8.925	0.000	0.000	22.217	20.959	127.624	MWD+IFR1+MS
5500.000	19.506	178.060	5243.436	22.890	0.000	21.903	-0.000	9.122	0.000	0.000	22.625	21.380	128.043	MWD+IFR1+MS
5600.000	17.506	178.060	5338.261	23.430	0.000	22.323	-0.000	9.333	0.000	0.000	23.096	21.808	126.895	MWD+IFR1+MS
5700.000	15.506	178.060	5434.135	23.931	0.000	22.735	-0.000	9.526	0.000	0.000	23.561	22.227	125.737	MWD+IFR1+MS
5800.000	13.506	178.060	5530.942	24.391	0.000	23.135	-0.000	9.703	0.000	0.000	24.019	22.636	124.594	MWD+IFR1+MS
5900.000	11.506	178.060	5628.565	24.810	0.000	23.525	-0.000	9.866	0.000	0.000	24.469	23.033	123.483	MWD+IFR1+MS
6000.000	9.506	178.060	5726.883	25.188	0.000	23.904	-0.000	10.016	0.000	0.000	24.909	23.419	122.421	MWD+IFR1+MS
6100.000	7.506	178.060	5825.778	25.525	0.000	24.271	-0.000	10.155	0.000	0.000	25.340	23.793	121.417	MWD+IFR1+MS



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6200.000	5.506	178.060	5925.129	25.821	0.000	24.627	-0.000	10.284	0.000	0.000	25.761	24.155	120.479	MWD+IFR1+MS
6300.000	3.506	178.060	6024.815	26.075	0.000	24.971	-0.000	10.404	0.000	0.000	26.170	24.504	119.612	MWD+IFR1+MS
6400.000	1.506	178.060	6124.714	26.288	0.000	25.304	-0.000	10.518	0.000	0.000	26.568	24.841	118.818	MWD+IFR1+MS
6475.294	0.000	0.000	6200.000	26.387	0.000	25.477	0.000	10.600	0.000	0.000	26.777	25.067	118.916	MWD+IFR1+MS
6500.000	0.000	0.000	6224.706	26.454	0.000	25.546	0.000	10.626	0.000	0.000	26.843	25.137	118.919	MWD+IFR1+MS
6600.000	0.000	0.000	6324.706	26.724	0.000	25.827	0.000	10.735	0.000	0.000	27.112	25.419	119.009	MWD+IFR1+MS
6700.000	0.000	0.000	6424.706	26.999	0.000	26.114	0.000	10.847	0.000	0.000	27.391	25.704	119.173	MWD+IFR1+MS
6800.000	0.000	0.000	6524.706	27.277	0.000	26.403	0.000	10.961	0.000	0.000	27.671	25.990	119.334	MWD+IFR1+MS
6900.000	0.000	0.000	6624.706	27.557	0.000	26.694	0.000	11.078	0.000	0.000	27.953	26.279	119.494	MWD+IFR1+MS
7000.000	0.000	0.000	6724.706	27.838	0.000	26.987	0.000	11.198	0.000	0.000	28.237	26.569	119.651	MWD+IFR1+MS
7100.000	0.000	0.000	6824.706	28.121	0.000	27.280	0.000	11.321	0.000	0.000	28.523	26.860	119.806	MWD+IFR1+MS
7200.000	0.000	0.000	6924.706	28.406	0.000	27.576	0.000	11.447	0.000	0.000	28.811	27.153	119.958	MWD+IFR1+MS
7300.000	0.000	0.000	7024.706	28.693	0.000	27.873	0.000	11.575	0.000	0.000	29.099	27.448	120.109	MWD+IFR1+MS
7400.000	0.000	0.000	7124.706	28.981	0.000	28.171	0.000	11.707	0.000	0.000	29.390	27.744	120.258	MWD+IFR1+MS
7500.000	0.000	0.000	7224.706	29.271	0.000	28.471	0.000	11.842	0.000	0.000	29.682	28.042	120.404	MWD+IFR1+MS
7600.000	0.000	0.000	7324.706	29.562	0.000	28.772	0.000	11.980	0.000	0.000	29.975	28.341	120.549	MWD+IFR1+MS
7700.000	0.000	0.000	7424.706	29.855	0.000	29.075	0.000	12.120	0.000	0.000	30.270	28.641	120.692	MWD+IFR1+MS
7800.000	0.000	0.000	7524.706	30.149	0.000	29.378	0.000	12.264	0.000	0.000	30.567	28.943	120.832	MWD+IFR1+MS
7900.000	0.000	0.000	7624.706	30.444	0.000	29.683	0.000	12.411	0.000	0.000	30.864	29.246	120.971	MWD+IFR1+MS
8000.000	0.000	0.000	7724.706	30.741	0.000	29.989	0.000	12.561	0.000	0.000	31.163	29.550	121.108	MWD+IFR1+MS
8100.000	0.000	0.000	7824.706	31.039	0.000	30.296	0.000	12.715	0.000	0.000	31.463	29.855	121.244	MWD+IFR1+MS
8200.000	0.000	0.000	7924.706	31.338	0.000	30.605	0.000	12.871	0.000	0.000	31.765	30.162	121.377	MWD+IFR1+MS
8300.000	0.000	0.000	8024.706	31.639	0.000	30.914	0.000	13.031	0.000	0.000	32.067	30.470	121.508	MWD+IFR1+MS
8400.000	0.000	0.000	8124.706	31.941	0.000	31.225	0.000	13.194	0.000	0.000	32.371	30.778	121.638	MWD+IFR1+MS
8500.000	0.000	0.000	8224.706	32.244	0.000	31.536	0.000	13.360	0.000	0.000	32.676	31.088	121.766	MWD+IFR1+MS
8600.000	0.000	0.000	8324.706	32.548	0.000	31.849	0.000	13.529	0.000	0.000	32.982	31.399	121.893	MWD+IFR1+MS
8700.000	0.000	0.000	8424.706	32.853	0.000	32.162	0.000	13.702	0.000	0.000	33.289	31.711	122.018	MWD+IFR1+MS
8800.000	0.000	0.000	8524.706	33.159	0.000	32.476	0.000	13.878	0.000	0.000	33.597	32.023	122.141	MWD+IFR1+MS
8900.000	0.000	0.000	8624.706	33.467	0.000	32.792	0.000	14.057	0.000	0.000	33.906	32.337	122.262	MWD+IFR1+MS
9000.000	0.000	0.000	8724.706	33.775	0.000	33.108	0.000	14.239	0.000	0.000	34.216	32.652	122.382	MWD+IFR1+MS
9100.000	0.000	0.000	8824.706	34.084	0.000	33.425	0.000	14.425	0.000	0.000	34.527	32.967	122.501	MWD+IFR1+MS
9200.000	0.000	0.000	8924.706	34.394	0.000	33.743	0.000	14.614	0.000	0.000	34.839	33.283	122.618	MWD+IFR1+MS
9300.000	0.000	0.000	9024.706	34.705	0.000	34.061	0.000	14.807	0.000	0.000	35.152	33.600	122.733	MWD+IFR1+MS

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9400.000	0.000	0.000	9124.706	35.018	0.000	34.381	0.000	15.003	0.000	0.000	35.466	33.918	122.847	MWD+IFR1+MS
9500.000	0.000	0.000	9224.706	35.331	0.000	34.701	0.000	15.202	0.000	0.000	35.780	34.237	122.960	MWD+IFR1+MS
9600.000	0.000	0.000	9324.706	35.644	0.000	35.022	0.000	15.404	0.000	0.000	36.096	34.557	123.071	MWD+IFR1+MS
9700.000	0.000	0.000	9424.706	35.959	0.000	35.344	0.000	15.610	0.000	0.000	36.412	34.877	123.181	MWD+IFR1+MS
9800.000	0.000	0.000	9524.706	36.274	0.000	35.666	0.000	15.819	0.000	0.000	36.729	35.198	123.289	MWD+IFR1+MS
9900.000	0.000	0.000	9624.706	36.591	0.000	35.989	0.000	16.032	0.000	0.000	37.047	35.520	123.396	MWD+IFR1+MS
10000.000	0.000	0.000	9724.706	36.908	0.000	36.313	0.000	16.248	0.000	0.000	37.365	35.842	123.502	MWD+IFR1+MS
10100.000	0.000	0.000	9824.706	37.225	0.000	36.637	0.000	16.467	0.000	0.000	37.684	36.165	123.606	MWD+IFR1+MS
10200.000	0.000	0.000	9924.706	37.544	0.000	36.962	0.000	16.690	0.000	0.000	38.004	36.489	123.709	MWD+IFR1+MS
10300.000	0.000	0.000	10024.706	37.863	0.000	37.288	0.000	16.916	0.000	0.000	38.325	36.813	123.811	MWD+IFR1+MS
10400.000	0.000	0.000	10124.706	38.183	0.000	37.614	0.000	17.146	0.000	0.000	38.646	37.138	123.911	MWD+IFR1+MS
10500.000	0.000	0.000	10224.706	38.504	0.000	37.941	0.000	17.379	0.000	0.000	38.968	37.464	124.011	MWD+IFR1+MS
10600.000	0.000	0.000	10324.706	38.825	0.000	38.268	0.000	17.615	0.000	0.000	39.291	37.790	124.109	MWD+IFR1+MS
10700.000	0.000	0.000	10424.706	39.147	0.000	38.596	0.000	17.855	0.000	0.000	39.614	38.116	124.206	MWD+IFR1+MS
10800.000	0.000	0.000	10524.706	39.469	0.000	38.924	0.000	18.098	0.000	0.000	39.938	38.444	124.301	MWD+IFR1+MS
10900.000	0.000	0.000	10624.706	39.792	0.000	39.253	0.000	18.345	0.000	0.000	40.262	38.771	124.396	MWD+IFR1+MS
11000.000	0.000	0.000	10724.706	40.116	0.000	39.583	0.000	18.595	0.000	0.000	40.587	39.100	124.489	MWD+IFR1+MS
11100.000	0.000	0.000	10824.706	40.441	0.000	39.913	0.000	18.848	0.000	0.000	40.913	39.429	124.582	MWD+IFR1+MS
11200.000	0.000	0.000	10924.706	40.765	0.000	40.243	0.000	19.105	0.000	0.000	41.239	39.758	124.673	MWD+IFR1+MS
11300.000	0.000	0.000	11024.706	41.091	0.000	40.574	0.000	19.365	0.000	0.000	41.565	40.088	124.763	MWD+IFR1+MS
11400.000	0.000	0.000	11124.706	41.417	0.000	40.906	0.000	19.628	0.000	0.000	41.893	40.418	124.852	MWD+IFR1+MS
11500.000	0.000	0.000	11224.706	41.743	0.000	41.237	0.000	19.895	0.000	0.000	42.220	40.749	124.940	MWD+IFR1+MS
11600.000	0.000	0.000	11324.706	42.071	0.000	41.570	0.000	20.165	0.000	0.000	42.549	41.080	125.027	MWD+IFR1+MS
11700.000	0.000	0.000	11424.706	42.398	0.000	41.902	0.000	20.439	0.000	0.000	42.877	41.412	125.114	MWD+IFR1+MS
11754.097	0.000	0.000	11478.803	42.574	0.000	42.081	0.000	20.588	0.000	0.000	43.052	41.592	125.139	MWD+IFR1+MS
11800.000	3.672	359.785	11524.674	42.300	0.000	42.235	0.000	20.715	0.000	0.000	43.207	41.744	124.964	MWD+IFR1+MS
11900.000	11.672	359.785	11623.699	41.756	0.000	42.546	0.000	21.009	0.000	0.000	43.904	42.165	117.441	MWD+IFR1+MS
12000.000	19.672	359.785	11719.903	41.104	0.000	42.833	0.000	21.410	0.000	0.000	44.955	42.551	109.562	MWD+IFR1+MS
12100.000	27.672	359.785	11811.414	39.941	0.000	43.091	0.000	21.969	0.000	0.000	45.908	42.849	105.849	MWD+IFR1+MS
12200.000	35.672	359.785	11896.451	38.380	0.000	43.318	0.000	22.725	0.000	0.000	46.713	43.093	103.937	MWD+IFR1+MS
12300.000	43.672	359.785	11973.360	36.569	0.000	43.512	0.000	23.696	0.000	0.000	47.351	43.293	102.930	MWD+IFR1+MS
12400.000	51.672	359.785	12040.642	34.697	0.000	43.673	0.000	24.872	0.000	0.000	47.823	43.453	102.445	MWD+IFR1+MS
12500.000	59.672	359.785	12096.989	32.994	0.000	43.800	0.000	26.225	0.000	0.000	48.141	43.575	102.284	MWD+IFR1+MS

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	12700.000	75.672	359.785	12172.723	31.101	0.000	43.951	0.000	29.281	0.000	0.000	48.413	43.713	102.461	MWD+IFR1+MS
	12800.000	83.672	359.785	12190.637	31.325	0.000	43.977	0.000	30.879	0.000	0.000	48.434	43.734	102.588	MWD+IFR1+MS
	12879.097	90.000	359.785	12195.000	31.738	0.000	43.971	0.000	31.738	0.000	0.000	48.433	43.729	102.589	MWD+IFR1+MS
	12900.000	90.000	359.785	12195.000	31.792	0.000	43.967	0.000	31.792	0.000	0.000	48.433	43.724	102.573	MWD+IFR1+MS
	13000.000	90.000	359.785	12195.000	32.020	0.000	43.956	0.000	32.020	0.000	0.000	48.432	43.715	102.530	MWD+IFR1+MS
	13100.000	90.000	359.785	12195.000	32.268	0.000	43.961	0.000	32.268	0.000	0.000	48.432	43.720	102.525	MWD+IFR1+MS
	13200.000	90.000	359.785	12195.000	32.533	0.000	43.980	0.000	32.533	0.000	0.000	48.433	43.739	102.551	MWD+IFR1+MS
	13300.000	90.000	359.785	12195.000	32.815	0.000	44.012	0.000	32.815	0.000	0.000	48.436	43.770	102.610	MWD+IFR1+MS
	13400.000	90.000	359.785	12195.000	33.113	0.000	44.057	0.000	33.113	0.000	0.000	48.440	43.814	102.702	MWD+IFR1+MS
	13500.000	90.000	359.785	12195.000	33.427	0.000	44.115	0.000	33.427	0.000	0.000	48.445	43.871	102.828	MWD+IFR1+MS
	13600.000	90.000	359.785	12195.000	33.756	0.000	44.187	0.000	33.756	0.000	0.000	48.452	43.940	102.991	MWD+IFR1+MS
	13700.000	90.000	359.785	12195.000	34.101	0.000	44.271	0.000	34.101	0.000	0.000	48.459	44.021	103.194	MWD+IFR1+MS
	13800.000	90.000	359.785	12195.000	34.459	0.000	44.369	0.000	34.459	0.000	0.000	48.469	44.115	103.438	MWD+IFR1+MS
	13900.000	90.000	359.785	12195.000	34.832	0.000	44.480	0.000	34.832	0.000	0.000	48.479	44.221	103.730	MWD+IFR1+MS
	14000.000	90.000	359.785	12195.000	35.218	0.000	44.603	0.000	35.218	0.000	0.000	48.491	44.339	104.074	MWD+IFR1+MS
	14100.000	90.000	359.785	12195.000	35.617	0.000	44.740	0.000	35.617	0.000	0.000	48.505	44.469	104.476	MWD+IFR1+MS
	14200.000	90.000	359.785	12195.000	36.029	0.000	44.889	0.000	36.029	0.000	0.000	48.520	44.610	104.944	MWD+IFR1+MS
	14300.000	90.000	359.785	12195.000	36.453	0.000	45.050	0.000	36.453	0.000	0.000	48.538	44.763	105.489	MWD+IFR1+MS
	14400.000	90.000	359.785	12195.000	36.889	0.000	45.224	0.000	36.889	0.000	0.000	48.558	44.926	106.121	MWD+IFR1+MS
	14500.000	90.000	359.785	12195.000	37.337	0.000	45.410	0.000	37.337	0.000	0.000	48.580	45.099	106.858	MWD+IFR1+MS
	14600.000	90.000	359.785	12195.000	37.795	0.000	45.608	0.000	37.795	0.000	0.000	48.605	45.283	107.717	MWD+IFR1+MS
	14700.000	90.000	359.785	12195.000	38.264	0.000	45.818	0.000	38.264	0.000	0.000	48.634	45.475	108.722	MWD+IFR1+MS
	14800.000	90.000	359.785	12195.000	38.743	0.000	46.040	0.000	38.743	0.000	0.000	48.666	45.676	109.903	MWD+IFR1+MS
	14900.000	90.000	359.785	12195.000	39.232	0.000	46.273	0.000	39.232	0.000	0.000	48.704	45.884	111.296	MWD+IFR1+MS
	15000.000	90.000	359.785	12195.000	39.731	0.000	46.518	0.000	39.731	0.000	0.000	48.747	46.099	112.947	MWD+IFR1+MS
	15100.000	90.000	359.785	12195.000	40.238	0.000	46.774	0.000	40.238	0.000	0.000	48.798	46.317	114.912	MWD+IFR1+MS
	15200.000	90.000	359.785	12195.000	40.755	0.000	47.041	0.000	40.755	0.000	0.000	48.858	46.538	117.254	MWD+IFR1+MS
	15300.000	90.000	359.785	12195.000	41.280	0.000	47.319	0.000	41.280	0.000	0.000	48.930	46.759	120.039	MWD+IFR1+MS
	15400.000	90.000	359.785	12195.000	41.813	0.000	47.608	0.000	41.813	0.000	0.000	49.018	46.975	123.327	MWD+IFR1+MS
	15500.000	90.000	359.785	12195.000	42.354	0.000	47.907	0.000	42.354	0.000	0.000	49.125	47.184	127.141	MWD+IFR1+MS
	15600.000	90.000	359.785	12195.000	42.902	0.000	48.217	0.000	42.902	0.000	0.000	49.255	47.379	131.439	MWD+IFR1+MS
	15700.000	90.000	359.785	12195.000	43.458	0.000	48.536	0.000	43.458	0.000	0.000	49.414	47.558	-43.917	MWD+IFR1+MS

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15800.000	90.000	359.785	12195.000	44.021	0.000	48.866	0.000	44.021	0.000	49.603	47.716	-39.157	MWD+IFR1+MS
15900.000	90.000	359.785	12195.000	44.590	0.000	49.205	0.000	44.590	0.000	49.823	47.853	-34.544	MWD+IFR1+MS
16000.000	90.000	359.785	12195.000	45.166	0.000	49.554	0.000	45.166	0.000	50.074	47.970	-30.298	MWD+IFR1+MS
16100.000	90.000	359.785	12195.000	45.748	0.000	49.912	0.000	45.748	0.000	50.353	48.069	-26.542	MWD+IFR1+MS
16200.000	90.000	359.785	12195.000	46.336	0.000	50.279	0.000	46.336	0.000	50.656	48.153	-23.308	MWD+IFR1+MS
16300.000	90.000	359.785	12195.000	46.930	0.000	50.655	0.000	46.930	0.000	50.980	48.226	-20.565	MWD+IFR1+MS
16400.000	90.000	359.785	12195.000	47.529	0.000	51.040	0.000	47.529	0.000	51.323	48.289	-18.252	MWD+IFR1+MS
16500.000	90.000	359.785	12195.000	48.134	0.000	51.433	0.000	48.134	0.000	51.681	48.346	-16.302	MWD+IFR1+MS
16600.000	90.000	359.785	12195.000	48.743	0.000	51.834	0.000	48.743	0.000	52.054	48.397	-14.652	MWD+IFR1+MS
16700.000	90.000	359.785	12195.000	49.358	0.000	52.244	0.000	49.358	0.000	52.440	48.445	-13.249	MWD+IFR1+MS
16800.000	90.000	359.785	12195.000	49.978	0.000	52.662	0.000	49.978	0.000	52.837	48.489	-12.047	MWD+IFR1+MS
16900.000	90.000	359.785	12195.000	50.602	0.000	53.087	0.000	50.602	0.000	53.245	48.531	-11.011	MWD+IFR1+MS
17000.000	90.000	359.785	12195.000	51.230	0.000	53.520	0.000	51.230	0.000	53.663	48.571	-10.112	MWD+IFR1+MS
17100.000	90.000	359.785	12195.000	51.863	0.000	53.960	0.000	51.863	0.000	54.091	48.609	-9.326	MWD+IFR1+MS
17200.000	90.000	359.785	12195.000	52.500	0.000	54.408	0.000	52.500	0.000	54.527	48.647	-8.635	MWD+IFR1+MS
17300.000	90.000	359.785	12195.000	53.141	0.000	54.862	0.000	53.141	0.000	54.972	48.684	-8.025	MWD+IFR1+MS
17400.000	90.000	359.785	12195.000	53.785	0.000	55.324	0.000	53.785	0.000	55.424	48.720	-7.482	MWD+IFR1+MS
17500.000	90.000	359.785	12195.000	54.434	0.000	55.792	0.000	54.434	0.000	55.885	48.756	-6.997	MWD+IFR1+MS
17600.000	90.000	359.785	12195.000	55.085	0.000	56.266	0.000	55.085	0.000	56.352	48.791	-6.562	MWD+IFR1+MS
17700.000	90.000	359.785	12195.000	55.741	0.000	56.747	0.000	55.741	0.000	56.827	48.827	-6.169	MWD+IFR1+MS
17800.000	90.000	359.785	12195.000	56.399	0.000	57.234	0.000	56.399	0.000	57.309	48.863	-5.814	MWD+IFR1+MS
17900.000	90.000	359.785	12195.000	57.061	0.000	57.727	0.000	57.061	0.000	57.797	48.898	-5.491	MWD+IFR1+MS
18000.000	90.000	359.785	12195.000	57.726	0.000	58.226	0.000	57.726	0.000	58.291	48.934	-5.197	MWD+IFR1+MS
18100.000	90.000	359.785	12195.000	58.394	0.000	58.731	0.000	58.394	0.000	58.792	48.970	-4.928	MWD+IFR1+MS
18200.000	90.000	359.785	12195.000	59.065	0.000	59.242	0.000	59.065	0.000	59.299	49.006	-4.681	MWD+IFR1+MS
18300.000	90.000	359.785	12195.000	59.738	0.000	59.757	0.000	59.738	0.000	59.811	49.042	-4.454	MWD+IFR1+MS
18400.000	90.000	359.785	12195.000	60.414	0.000	60.278	0.000	60.414	0.000	60.329	49.079	-4.244	MWD+IFR1+MS
18500.000	90.000	359.785	12195.000	61.093	0.000	60.805	0.000	61.093	0.000	60.852	49.116	-4.050	MWD+IFR1+MS
18600.000	90.000	359.785	12195.000	61.774	0.000	61.336	0.000	61.774	0.000	61.381	49.153	-3.871	MWD+IFR1+MS
18700.000	90.000	359.785	12195.000	62.458	0.000	61.872	0.000	62.458	0.000	61.915	49.191	-3.704	MWD+IFR1+MS
18800.000	90.000	359.785	12195.000	63.144	0.000	62.413	0.000	63.144	0.000	62.453	49.229	-3.548	MWD+IFR1+MS
18900.000	90.000	359.785	12195.000	63.833	0.000	62.959	0.000	63.833	0.000	62.997	49.268	-3.404	MWD+IFR1+MS
19000.000	90.000	359.785	12195.000	64.523	0.000	63.509	0.000	64.523	0.000	63.545	49.307	-3.268	MWD+IFR1+MS

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19100.000	90.000	359.785	12195.000	65.216	0.000	64.064	0.000	65.216	0.000	64.098	49.346	-3.142	MWD+IFR1+MS
19200.000	90.000	359.785	12195.000	65.911	0.000	64.623	0.000	65.911	0.000	64.655	49.386	-3.023	MWD+IFR1+MS
19300.000	90.000	359.785	12195.000	66.607	0.000	65.186	0.000	66.607	0.000	65.217	49.427	-2.911	MWD+IFR1+MS
19400.000	90.000	359.785	12195.000	67.306	0.000	65.753	0.000	67.306	0.000	65.782	49.467	-2.806	MWD+IFR1+MS
19500.000	90.000	359.785	12195.000	68.007	0.000	66.324	0.000	68.007	0.000	66.352	49.509	-2.708	MWD+IFR1+MS
19600.000	90.000	359.785	12195.000	68.709	0.000	66.899	0.000	68.709	0.000	66.926	49.550	-2.615	MWD+IFR1+MS
19700.000	90.000	359.785	12195.000	69.413	0.000	67.478	0.000	69.413	0.000	67.503	49.593	-2.527	MWD+IFR1+MS
19800.000	90.000	359.785	12195.000	70.119	0.000	68.061	0.000	70.119	0.000	68.085	49.636	-2.444	MWD+IFR1+MS
19900.000	90.000	359.785	12195.000	70.827	0.000	68.647	0.000	70.827	0.000	68.670	49.679	-2.365	MWD+IFR1+MS
20000.000	90.000	359.785	12195.000	71.536	0.000	69.236	0.000	71.536	0.000	69.258	49.723	-2.290	MWD+IFR1+MS
20100.000	90.000	359.785	12195.000	72.246	0.000	69.829	0.000	72.246	0.000	69.850	49.767	-2.220	MWD+IFR1+MS
20200.000	90.000	359.785	12195.000	72.959	0.000	70.426	0.000	72.959	0.000	70.446	49.812	-2.153	MWD+IFR1+MS
20300.000	90.000	359.785	12195.000	73.672	0.000	71.025	0.000	73.672	0.000	71.045	49.857	-2.089	MWD+IFR1+MS
20400.000	90.000	359.785	12195.000	74.388	0.000	71.628	0.000	74.388	0.000	71.646	49.903	-2.028	MWD+IFR1+MS
20500.000	90.000	359.785	12195.000	75.104	0.000	72.234	0.000	75.104	0.000	72.252	49.949	-1.970	MWD+IFR1+MS
20600.000	90.000	359.785	12195.000	75.822	0.000	72.843	0.000	75.822	0.000	72.860	49.996	-1.915	MWD+IFR1+MS
20700.000	90.000	359.785	12195.000	76.541	0.000	73.454	0.000	76.541	0.000	73.471	50.044	-1.863	MWD+IFR1+MS
20800.000	90.000	359.785	12195.000	77.262	0.000	74.069	0.000	77.262	0.000	74.085	50.092	-1.813	MWD+IFR1+MS
20900.000	90.000	359.785	12195.000	77.983	0.000	74.686	0.000	77.983	0.000	74.701	50.140	-1.765	MWD+IFR1+MS
21000.000	90.000	359.785	12195.000	78.706	0.000	75.307	0.000	78.706	0.000	75.321	50.189	-1.719	MWD+IFR1+MS
21100.000	90.000	359.785	12195.000	79.430	0.000	75.929	0.000	79.430	0.000	75.943	50.238	-1.676	MWD+IFR1+MS
21200.000	90.000	359.785	12195.000	80.155	0.000	76.555	0.000	80.155	0.000	76.568	50.288	-1.634	MWD+IFR1+MS
21300.000	90.000	359.785	12195.000	80.882	0.000	77.183	0.000	80.882	0.000	77.195	50.339	-1.593	MWD+IFR1+MS
21400.000	90.000	359.785	12195.000	81.609	0.000	77.813	0.000	81.609	0.000	77.825	50.390	-1.555	MWD+IFR1+MS
21500.000	90.000	359.785	12195.000	82.338	0.000	78.446	0.000	82.338	0.000	78.457	50.442	-1.518	MWD+IFR1+MS
21600.000	90.000	359.785	12195.000	83.067	0.000	79.081	0.000	83.067	0.000	79.092	50.494	-1.483	MWD+IFR1+MS
21700.000	90.000	359.785	12195.000	83.798	0.000	79.718	0.000	83.798	0.000	79.729	50.546	-1.449	MWD+IFR1+MS
21800.000	90.000	359.785	12195.000	84.529	0.000	80.358	0.000	84.529	0.000	80.368	50.599	-1.416	MWD+IFR1+MS
21900.000	90.000	359.785	12195.000	85.262	0.000	80.999	0.000	85.262	0.000	81.010	50.653	-1.385	MWD+IFR1+MS
22000.000	90.000	359.785	12195.000	85.995	0.000	81.643	0.000	85.995	0.000	81.653	50.707	-1.354	MWD+IFR1+MS
22100.000	90.000	359.785	12195.000	86.729	0.000	82.289	0.000	86.729	0.000	82.299	50.762	-1.325	MWD+IFR1+MS
22200.000	90.000	359.785	12195.000	87.464	0.000	82.937	0.000	87.464	0.000	82.947	50.817	-1.297	MWD+IFR1+MS
22300.000	90.000	359.785	12195.000	88.200	0.000	83.587	0.000	88.200	0.000	83.596	50.873	-1.270	MWD+IFR1+MS



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Well Plan Report												
Time	Well ID	Well Name	Well Type	Well Status	Well Depth (m)	Well Diameter (mm)	Well Length (m)	Well Volume (m³)	Well Weight (kg)	Well Cost (\$)	Well Profit (\$)	Well Margin (%)
22400.000	90.000	359.785	12195.000	88.937	0.000	84.239	0.000	88.937	0.000	84.248	50.929	-1.244 MWD+IFR1+MS
22500.000	90.000	359.785	12195.000	89.675	0.000	84.893	0.000	89.675	0.000	84.901	50.986	-1.219 MWD+IFR1+MS
22600.000	90.000	359.785	12195.000	90.413	0.000	85.549	0.000	90.413	0.000	85.557	51.043	-1.195 MWD+IFR1+MS
22700.000	90.000	359.785	12195.000	91.152	0.000	86.206	0.000	91.152	0.000	86.214	51.101	-1.172 MWD+IFR1+MS
22800.000	90.000	359.785	12195.000	91.892	0.000	86.866	0.000	91.892	0.000	86.873	51.159	-1.149 MWD+IFR1+MS
22900.000	90.000	359.785	12195.000	92.633	0.000	87.527	0.000	92.633	0.000	87.534	51.218	-1.127 MWD+IFR1+MS
23000.000	90.000	359.785	12195.000	93.374	0.000	88.189	0.000	93.374	0.000	88.196	51.277	-1.106 MWD+IFR1+MS
23100.000	90.000	359.785	12195.000	94.117	0.000	88.854	0.000	94.117	0.000	88.860	51.337	-1.086 MWD+IFR1+MS
23200.000	90.000	359.785	12195.000	94.859	0.000	89.520	0.000	94.859	0.000	89.526	51.398	-1.066 MWD+IFR1+MS
23300.000	90.000	359.785	12195.000	95.603	0.000	90.187	0.000	95.603	0.000	90.193	51.459	-1.047 MWD+IFR1+MS
23400.000	90.000	359.785	12195.000	96.347	0.000	90.856	0.000	96.347	0.000	90.862	51.520	-1.029 MWD+IFR1+MS
23500.000	90.000	359.785	12195.000	97.092	0.000	91.527	0.000	97.092	0.000	91.533	51.582	-1.011 MWD+IFR1+MS
23600.000	90.000	359.785	12195.000	97.837	0.000	92.199	0.000	97.837	0.000	92.205	51.644	-0.994 MWD+IFR1+MS
23700.000	90.000	359.785	12195.000	98.583	0.000	92.872	0.000	98.583	0.000	92.878	51.707	-0.977 MWD+IFR1+MS
23800.000	90.000	359.785	12195.000	99.330	0.000	93.547	0.000	99.330	0.000	93.553	51.770	-0.961 MWD+IFR1+MS
23900.000	90.000	359.785	12195.000	100.077	0.000	94.223	0.000	100.077	0.000	94.229	51.834	-0.945 MWD+IFR1+MS
24000.000	90.000	359.785	12195.000	100.825	0.000	94.901	0.000	100.825	0.000	94.906	51.899	-0.930 MWD+IFR1+MS
24100.000	90.000	359.785	12195.000	101.573	0.000	95.580	0.000	101.573	0.000	95.585	51.963	-0.915 MWD+IFR1+MS
24200.000	90.000	359.785	12195.000	102.322	0.000	96.260	0.000	102.322	0.000	96.265	52.029	-0.900 MWD+IFR1+MS
24300.000	90.000	359.785	12195.000	103.071	0.000	96.942	0.000	103.071	0.000	96.947	52.095	-0.887 MWD+IFR1+MS
24400.000	90.000	359.785	12195.000	103.821	0.000	97.625	0.000	103.821	0.000	97.629	52.161	-0.873 MWD+IFR1+MS
24500.000	90.000	359.785	12195.000	104.572	0.000	98.309	0.000	104.572	0.000	98.313	52.228	-0.860 MWD+IFR1+MS
24600.000	90.000	359.785	12195.000	105.323	0.000	98.994	0.000	105.323	0.000	98.998	52.295	-0.847 MWD+IFR1+MS
24700.000	90.000	359.785	12195.000	106.074	0.000	99.680	0.000	106.074	0.000	99.684	52.363	-0.835 MWD+IFR1+MS
24800.000	90.000	359.785	12195.000	106.826	0.000	100.368	0.000	106.826	0.000	100.372	52.431	-0.823 MWD+IFR1+MS

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	25800.000	90.000	359.785	12195.000	114.369	0.000	107.301	0.000	114.369	0.000	107.304	53.140	-0.718	MWD+IFR1+MS
	25900.000	90.000	359.785	12195.000	115.126	0.000	107.999	0.000	115.126	0.000	108.002	53.213	-0.709	MWD+IFR1+MS
	26000.000	90.000	359.785	12195.000	115.883	0.000	108.699	0.000	115.883	0.000	108.702	53.287	-0.700	MWD+IFR1+MS
	26100.000	90.000	359.785	12195.000	116.640	0.000	109.399	0.000	116.640	0.000	109.402	53.362	-0.692	MWD+IFR1+MS
	26200.000	90.000	359.785	12195.000	117.398	0.000	110.100	0.000	117.398	0.000	110.103	53.437	-0.684	MWD+IFR1+MS
	26300.000	90.000	359.785	12195.000	118.156	0.000	110.803	0.000	118.156	0.000	110.805	53.512	-0.675	MWD+IFR1+MS
	26400.000	90.000	359.785	12195.000	118.914	0.000	111.506	0.000	118.914	0.000	111.508	53.588	-0.668	MWD+IFR1+MS
	26500.000	90.000	359.785	12195.000	119.673	0.000	112.209	0.000	119.673	0.000	112.212	53.664	-0.660	MWD+IFR1+MS
	26600.000	90.000	359.785	12195.000	120.432	0.000	112.914	0.000	120.432	0.000	112.916	53.741	-0.652	MWD+IFR1+MS
	26700.000	90.000	359.785	12195.000	121.191	0.000	113.619	0.000	121.191	0.000	113.622	53.818	-0.645	MWD+IFR1+MS
	26800.000	90.000	359.785	12195.000	121.951	0.000	114.325	0.000	121.951	0.000	114.328	53.895	-0.638	MWD+IFR1+MS
	26900.000	90.000	359.785	12195.000	122.711	0.000	115.032	0.000	122.711	0.000	115.035	53.973	-0.631	MWD+IFR1+MS
	27000.000	90.000	359.785	12195.000	123.471	0.000	115.740	0.000	123.471	0.000	115.742	54.052	-0.624	MWD+IFR1+MS
	27100.000	90.000	359.785	12195.000	124.232	0.000	116.448	0.000	124.232	0.000	116.451	54.131	-0.617	MWD+IFR1+MS
	27200.000	90.000	359.785	12195.000	124.993	0.000	117.157	0.000	124.993	0.000	117.160	54.210	-0.610	MWD+IFR1+MS
	27300.000	90.000	359.785	12195.000	125.754	0.000	117.867	0.000	125.754	0.000	117.869	54.290	-0.604	MWD+IFR1+MS
	27400.000	90.000	359.785	12195.000	126.516	0.000	118.578	0.000	126.516	0.000	118.580	54.370	-0.598	MWD+IFR1+MS
	27500.000	90.000	359.785	12195.000	127.278	0.000	119.289	0.000	127.278	0.000	119.291	54.451	-0.592	MWD+IFR1+MS
	27600.000	90.000	359.785	12195.000	128.040	0.000	120.001	0.000	128.040	0.000	120.003	54.532	-0.586	MWD+IFR1+MS
	27700.000	90.000	359.785	12195.000	128.802	0.000	120.713	0.000	128.802	0.000	120.715	54.613	-0.580	MWD+IFR1+MS
	27800.000	90.000	359.785	12195.000	129.565	0.000	121.426	0.000	129.565	0.000	121.428	54.695	-0.574	MWD+IFR1+MS
	27900.000	90.000	359.785	12195.000	130.327	0.000	122.140	0.000	130.327	0.000	122.142	54.777	-0.568	MWD+IFR1+MS
	28000.000	90.000	359.785	12195.000	131.091	0.000	122.854	0.000	131.091	0.000	122.856	54.860	-0.563	MWD+IFR1+MS
	28100.000	90.000	359.785	12195.000	131.854	0.000	123.569	0.000	131.854	0.000	123.571	54.943	-0.558	MWD+IFR1+MS
	28200.000	90.000	359.785	12195.000	132.618	0.000	124.285	0.000	132.618	0.000	124.287	55.027	-0.552	MWD+IFR1+MS
	28300.000	90.000	359.785	12195.000	133.381	0.000	125.001	0.000	133.381	0.000	125.003	55.111	-0.547	MWD+IFR1+MS
	28400.000	90.000	359.785	12195.000	134.146	0.000	125.718	0.000	134.146	0.000	125.720	55.196	-0.542	MWD+IFR1+MS
	28500.000	90.000	359.785	12195.000	134.910	0.000	126.435	0.000	134.910	0.000	126.437	55.280	-0.537	MWD+IFR1+MS
	28600.000	90.000	359.785	12195.000	135.675	0.000	127.153	0.000	135.675	0.000	127.155	55.366	-0.532	MWD+IFR1+MS
	28700.000	90.000	359.785	12195.000	136.439	0.000	127.872	0.000	136.439	0.000	127.873	55.451	-0.528	MWD+IFR1+MS
	28800.000	90.000	359.785	12195.000	137.204	0.000	128.591	0.000	137.204	0.000	128.592	55.538	-0.523	MWD+IFR1+MS
	28872.410	90.000	359.785	12195.000	137.758	0.000	129.111	0.000	137.758	0.000	129.112	55.600	-0.520	MWD+IFR1+MS



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## Well Plan Report

	28900,000	90,000	359,785	12195,000	137,969	0,000	129,309	0,000	137,969	0,000	129,310	55.624	-0.518	MWD+IFR1+MS
	28972,410	90,000	359,785	12195,000	138,522	0,000	129,829	0,000	138,522	0,000	129,831	55.687	-0.515	MWD+IFR1+MS

## Plan Targets

PLU 23 DTD 151H

## TVD MSL Target Shape

Target Name	(ft)	(ft)	(ft)
LTP	28872.41	456114.70	647071.50 CIRCLE
BHL	28972.54	456214.70	647071.00 CIRCLE
FTP	12879.06	440121.50	647131.50 CIRCLE

POKER LAKE UNIT 23 DTD - 151H 28,972 ft TD 2/2/2024

20	94	J-55	BTC	974	MD/TVD	8.1	ppg mud		
Collapse				collapse =	520	Burst =	2110	Tension =	1077000
(8.1)(0.052)(974) =				410 psi		520/410 =	1.27	SF for collapse	
Burst									
Max exp. surf pressure				874 psi		2110/873.792 =	2.41	SF for burst	
Tension						1077/91.6 =	11.76	SF for tension	
(974)(94)=				91556 lb					

13.375	68	HC L-80	BTC	3936	MD/TVD	8.5	# mud		
Collapse				Collapse =	2690	Burst =	5020	Tension =	1545000
(8.5)(0.052)(3936) * =				890 psi		2690/890 =	3.02	SF for collapse	
*Less internal fluid height									
Burst									
Max expected surr pressure =				2797 psi		5020/2797.1424 =	1.79	SF for burst	
Tension									
(3936)(68)=				267648 lb		1545/267.648 =	5.77	SF for tension	

9.625	40	HC P-110	BTC	0	Top	MD/TVD	9	# mud		
				4036	Bottom	MD/TVD				
Collapse				Collapse =		4230	Burst =	7910	Tension =	1266000
(9)(0.052)(4036)=				1889 psi		4230/1889=				SF for collapse
Burst						7910/5560.92=				SF for burst
Max expected surf pressure =				5561 psi		1266/451.152=				SF for tension
Tension										
(4036*40)+(7242.8*40)=				451152 lb						

9.625	40	HC L-80	BTC	4036 Top	MD/TVD	9 # mud
				11278.8 TD	MD/TVD	
				Collapse =	42330	Burst = 5750 Tension = 916000
Collapse						
(9)(0.052)(11278.8) *				2033 psi		4230/2033= SF for collapse
*Less internal fluid height						
Burst						
Max expected surf pressure =				5561 psi		5750/5560.92= SF for burst
Tension						
(7242.8)(40)=				2897.12 lb		916/289.712= SF for tension

5.5	23	RY P-110	Semi-Premium	0 Top	11,179 TD (MD)	13 # mud
				0.35 FF		
Collapse						
(13)(0.052)(11178.8) =				Collapse = 14540		Burst= 14540 Tension= 707000
Burst				7557 psi	14540/7557=	11.92 SF for collapse
Max expected surf pressure =				12000 psi *for frac	14520/12000=	11.24 SF for burst
Tension						
#REF!				425770 lb	729/425.7704455=	1.73 SF for tension

5.5	23	RY P-110	Semi-Flush	11,179 Top	28,972 TD (MD)	12,195 TVD (max)	13
				0.35 FF	12,879 LP (MD)	16093.31	Lat Length
Collapse							
(13)(0.052)(12195) =				Collapse= 14540		Burst= 14530	Tension= 707000
Burst				5244 psi	14540/8244=	1.76	SF for collapse
Max expected surf pressure =				12000 psi *for frac	14530/12000=	1.21	SF for burst
Tension							
#REF!				158658 lb	707/168.6580455=	4.19	SF for tension

Field Needs an Input	BLM Min. Burst:	1
Calculated Field	BLM Min. Collapse:	1.125
Collapse Assumptions	BLM Min. Tension (Dry):	1.6
Burst Assumptions	BLM Min. Tension (Buoyed):	1.8

Burst Assumes MASP Equation  $(8.5)(0.052)(3936) - (.22)(3936)$

Collapse Assumes 1/2 evacuation & FW internal  
Fluid Top: 1968 MD/TVD

Burst Assumes MASP Equation  $(9)(0.052)(11278.8) - (.22)(11278.8)$

Collapse Assumes full evacuation

Burst Assumes MASP Equation  $(13)(0.052)(12195) - (.22)(12195)$

Collapse Assumes 1/3 evacuation & FW internal  
Fluid Top: 7519 MD/TVD

Burst Assumes MASP Equation  $(13)(0.052)(12195) - (.22)(12195)$

# mud
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Instructions:

- 1) Enter all data into table below using the plat, geoprogram, and directional plan
- 2) Enter GeoProg data directly into permit -- surface and intermediate casing/cement calculations are based on salt top & bottom.
- 3) If there is not a 3rd bone or Wolfcamp XY then hide the row from columns A - M
- 4) Enter Casing Specs on "Casing Design Page" for Burst, Collapse, and Tension

Field Needs an Input  
Calculated Field  
Pull Down Menu

Input Data		POKER LAKE UNIT 23 DTD - 151H	
Well Name	Wolfcamp D/E	3 Mile Lateral	
Date Created	2/2/2024		
SHL Data		BHL Data	
Section	14	2	
T	24	S	24
R	30	E	30
N	366	S	230
Easting	621	W	670
County	Eddy	W	

Formations		Well Depth (TVD)		Water/Oil/Gas	
Formation					
Rusler	645'				Water
Top of Salt	999'				Water
Base of Salt	3836'				Water
Delaware	4045'				Water
Brushy Canyon	6256'				Water/Oil/Gas
Bone Spring	7909'				Water
1st Bone Spring Ss	8846'				Water/Oil/Gas
2nd Bone Spring Ss	9713'				Water/Oil/Gas
3rd Bone Spring Sh	10354'				Water/Oil/Gas
3rd Bone Spring Ss	10788'				Water/Oil/Gas
Wolfcamp	11165'				Water/Oil/Gas
Wolfcamp X	11198'				Water/Oil/Gas
Wolfcamp Y	11283'				Water/Oil/Gas
Wolfcamp A	11327'				Water/Oil/Gas
Wolfcamp B	11775'				Water/Oil/Gas
Wolfcamp D	12095'				Water/Oil/Gas
Target/Land Curve	12194'				Water/Oil/Gas
BHL	12194'				Water/Oil/Gas

Match Directional Plan when appropriate

Hole Sizes		Hole Size	
Hole Section			
Surface	26		
Intermediate 1	17.5		
Intermediate 2	12.25		
Production Curve	8.5		
Production Lateral	8.5		

Mud Weights			
Surface	8.1		
Intermediate 1	8.5		
Intermediate 2	9		
Production	13		

Casing Points			
Surface	974'		
Intermediate 1	3938'		
Intermediate 2	11279'		
DV Tool &/or Int 2 XO	4036'		
Production	28972'		

25' above Top Salt  
100' below Base of Salt (bare minimum requirement for BLM is 100' into salt)  
~200' above KOP, but ensure casing is set in competent rock per geo  
100' below previous casing shoe (if needed)  
Equals BHL

Casing		Name		Size		Weight		Grade		Collar	
Hole Section											
Surface		20" 94" J-55" BTC		20"		94"		J-55"		BTC	
Intermediate 1		13.375" 68" HC L-80 BTC		13.375"		68"		HC L-80		BTC	
Intermediate 2		9.625" 40" HC P-410 BTC		9.625"		40"		HC P-410		BTC	

Check Hole sizes on Cement Calcs

Well Plan LP 12,195  
Geoprogram LP 12,194  
Well Plan KOP 11,754  
New KOP 11,753

(1)

Intermediate 2	9.625   40   HC L-80   BTC	9.625	40	HC L-80	BTC
Production	5.5   23   RY P-110   Semi-Premium	5.5	23	RY P-110	Semi-Premium
Production	5.5   23   RY P-110   Semi-Flush	5.5	23	RY P-110	Semi-Flush
Production	5.5   23   RY P-110   Semi-Flush	5.5	23	RY P-110	Semi-Flush

Directional	MD	TVD
KOP	11,754	11,479
Landing Point	12,879	12,195
TD	28,972	12,195

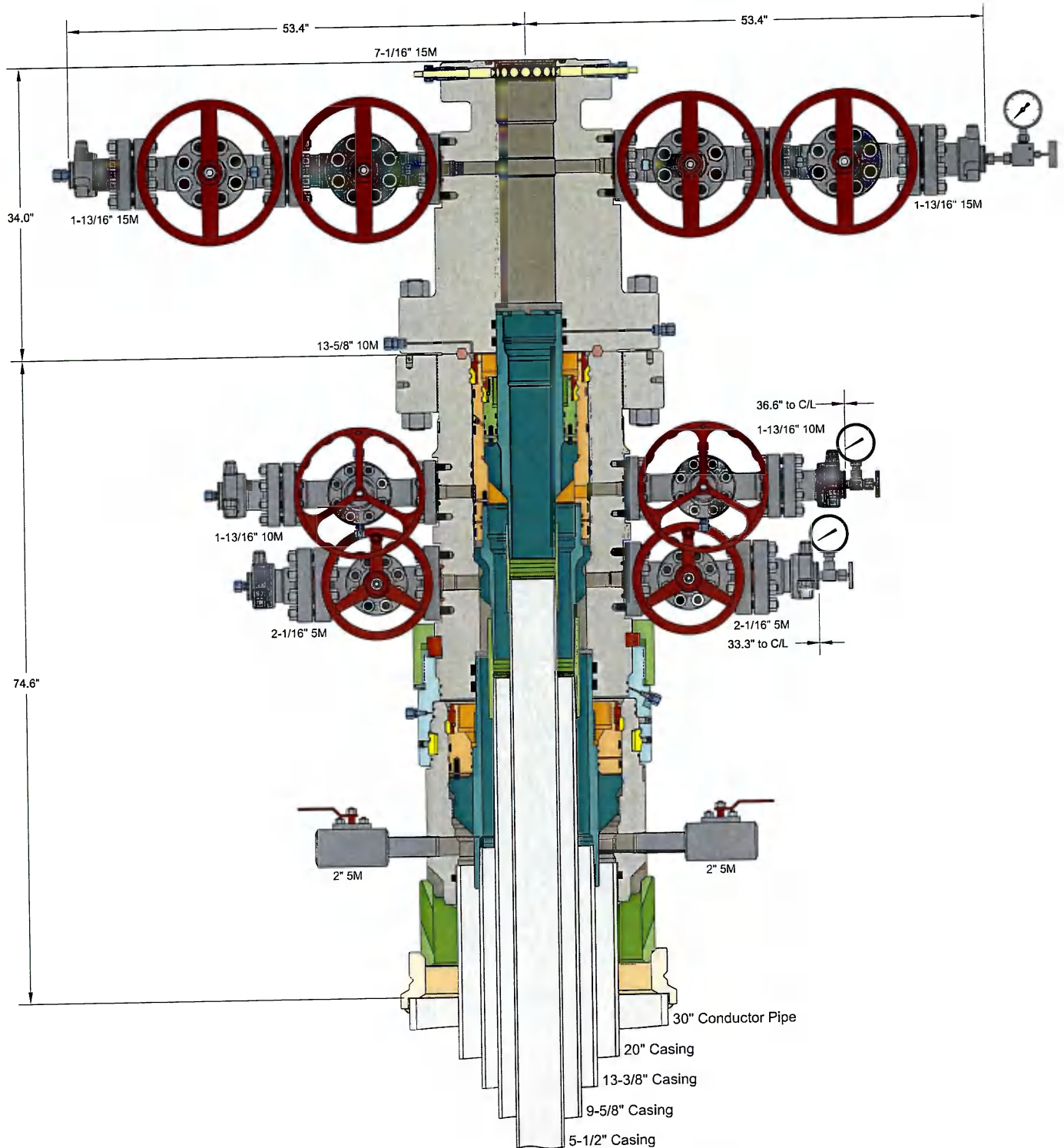
OH Logs  
If Yes, Paste in no. "NO" > No Check 8. to see that it reads correctly

Max Frac Pressure	12000	psi
-------------------	-------	-----

Temps	
Surf Temp	BHT
	85
	195

\*\* Calculated off LP TVD

Casing Table									
Name	OD	Weight	Grade	Connection	Tube ID	Collapse	Burst	Tension	
20   94   J-55   BTC	20	94	J-55	BTC	19.124	520	2,110	1,077,000	J-55
18   625   87.5   J-55   BTC	18 5/8	87.5	J-55	BTC	17.755	630	2,250	1,329,000	J-55
13   375   68   HC L-80   BTC	13 3/8	68	HC L-80	BTC	12.415	2,890	5,020	1,545,000	HC L-80
13   375   54.5   J-55   BTC	13 3/8	54.5	J-55	BTC	12.615	1,130	2,740	909,000	J-55
9   625   40   J-55   BTC	9 5/8	40	J-55	BTC	8.835	2,750	3,950	630,000	J-55
9   625   40   HC L-80   BTC	9 5/8	40	HC L-80	BTC	8.835	4,230	5,750	916,000	HC L-80
9   625   53.5   HC P-110   BTC	9 5/8	53.5	HC P-110	BTC	8.835	9,190	10,900	1,718,000	P-110 HC
9   625   40   HC P-110   BTC	9 5/8	40	HC P-110	BTC	8.835	4,230	7,910	1,285,000	P-110 HC
7   625   29.7   RY P-110   Flush Joint	7 5/8	29.7	RY P-110	Flush Joint	6.875	5,350	9,460	960,000	P-110 RY -IFJ
7   625   29.7   CY P-110   Flush Joint	7 5/8	29.7	CY P-110	Flush Joint	6.875	5,350	9,460	960,000	P-110 CY -IFJ
7   625   29.7   HC L-80   Flush Joint	7 5/8	29.7	HC L-80	Flush Joint	6.875	5,780	6,880	406,000	HC L-80 -IFJ
6   26   P-110   Semi-Flush	6	26	P-110	Semi-Flush	5.128	13,570	14,010	838,000	P-110 - Talon HTQ
5.5   23   RY P-110   Semi-Flush	5 1/2	23	RY P-110	Semi-Flush	4.67	14,540	14,530	707,000	P-110 RY - Talon HTQ
5.5   23   RY P-110   Semi-Premium	5 1/2	23	RY P-110	Semi-Premium	4.67	14,540	14,520	729,000	P-110 RY - Freedom HTQ
5.5   20   RY P-110   Semi-Flush	5 1/2	20	RY P-110	Semi-Flush	4.778	11,100	12,640	641,000	P-110 RY - Talon HTQ
5.5   20   RY P-110   Semi-Premium	5 1/2	20	RY P-110	Semi-Premium	4.778	11,100	12,640	641,000	P-110 RY - Freedom HTQ



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

ALL DIMENSIONS APPROXIMATE

## CACTUS WELLHEAD LLC

## XTO ENERGY INC DELAWARE BASIN

30" x 20" x 13-3/8" x 9-5/8" x 5-1/2" CRC / MBU-3T-CFL Wellhead  
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head  
And 13-3/8", 9-5/8" & 5-1/2" Pin Bottom Casing Hangers

DRAWN	VJK	12AUG22
APPRV		
DRAWING NO.	HBE0000801	



Form 3160-3  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL Skid Rig <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. <b>NMNM0030452Do</b> 6. If Indian, Allottee or Tribe Name  7. If Unit or CA Agreement, Name and No.  8. Lease Name and Well No. <b>Poker Lake Unit 23 DTD 151H</b> 9. API Well No.
2. Name of Operator <b>XTO Permian Operating, LLC.</b>		10. Field and Pool, or Exploratory <b>Purple Sage; Wolfcamp (gas)</b> 11. Sec., T. R. M. or Blk. and Survey or Area <b>Section 23-T24S-R30E</b>
3a. Address <b>6401 Holiday Hills Road, Bldg. 5, Midland, TX 79707</b>		
3b. Phone No. (include area code) <b>(432) 682-8873</b>		12. County or Parish <b>Eddy</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>SWSW/366' FSL &amp; 621' FWL/14-T24S-30E (Lat. 32.211620; Long -103.858266)</b> At proposed prod. zone <b>Lot 4/230' FNL &amp; 670' FWL/2-T24S-R30E (Lat 32.253479/-103.858081)</b>		
14. Distance in miles and direction from nearest town or post office* <b>27 miles</b>		13. State <b>NM</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>366 feet</b>	16. No of acres in lease	17. Spacing Unit dedicated to this well <b>520.37</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>30 feet</b>	19. Proposed Depth <b>28972' MD/12195' TVD</b>	20. BLM/BIA Bond No. in file <b>Federal: COB000050</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>3448' GR</b>	22. Approximate date work will start* <b>ASAP after approval</b>	23. Estimated duration <b>45 days</b>
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- |   |   |
|---|---|
| 1. Well plat certified by a registered surveyor.<br>2. A Drilling Plan.<br>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).<br>5. Operator certification.<br>6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature <b>Rusty Klein</b>	Name (Printed/Typed) <b>RUSTY KLEIN</b>	Date <b>02/07/2024</b>
Title <b>Regulatory Analyst</b>		
Approved by (Signature)	Name (Printed/Typed) <b>Chris Walls</b>	Date <b>2/16/2024</b>
Title <b>Sup PE</b>		
Office <b>Carlsbad Field Office</b>		

Application approval 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.

Conditions of approval, if any, are attached.

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.

(Continued on page 2)

\*(Instructions on page 2)

## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM I:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**ITEM 24:** If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, when applicable by 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 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., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 L.S., Washington, D.C. 20240.

(Form 3160-3, page 2)



**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 320628

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 320628
	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.	3/6/2024