

Well Name: JAMES RANCH UNIT DI 11 EKALAKA	Well Location:	County or Parish/State:
Well Number: 903H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NYNM0002953	Unit or CA Name: JAMES RANCH	Unit or CA Number: NMNM070965Z
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2642449

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 11/02/2021	Time Sundry Submitted: 08:56
Date proposed operation will begin: 11/04/2021	

Procedure Description: **Name Change, Spacing, Casing/Cement, Drilling Variance Changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: No Additional Surface Disturbance Change Well Name fr/James Ranch Unit DI 11 Ekalaka 903H to James Ranch Unit DI 11 Ekalaka 822H Change BHL fr/2310'FSL & 50'FEL, Section 15-22S-30E to 1540'FSL & 50'FEL, Section 15-T22S-R30E Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan Multibowl Diagram

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

JRU_DI_11_822H_NOI_Attachments_20211102085616.pdf

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US Well Number:	Operator: XTO PERMIAN OPERATING LLC		

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: STEPHANIE RABADUE	Signed on: NOV 02, 2021 08:56 AM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Coordinator	
Street Address: 500 W. Illinois St, Ste 100	
City: Midland	State: TX
Phone: (432) 620-6714	
Email address: STEPHANIE.RABADUE@EXXONMOBIL.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 11/05/2021
Signature: Chris Walls	

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
SUNDRY NOTICES AND REPORTS ON WELLS <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

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

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 Program

Directional Plan

Multibowl Diagram

Location of Well

District I

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

District II

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

District III

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

District IV

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

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code 97905	³ Pool Name Wildcat G-07 S223021G; Bone Spring
⁴ Property Code	⁵ Property Name JAMES RANCH UNIT DI 11 EKALAKA U	⁶ Well Number 822H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,112'

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
J	17	22S	30E		2,105	SOUTH	2,397	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	15	22S	30E		1,540	SOUTH	50	EAST	EDDY

¹² Dedicated Acres 800	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stephanie Rabadue</i> 10/01/2021 Signature Date Stephanie Rabadue Printed Name stephanie.rabadue@exxonmobil.com E-mail Address	
¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 9-30-2021 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number RM 2019072058					

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

XTO Energy Inc.
James Ranch Unit DI 11 Ekalaka U 822H
Projected TD: 22466' MD / 9968' TVD
SHL: 2105' FSL & 2397' FEL , Section 17, T22S, R30E
BHL: 1540' FSL & 50' FEL , Section 15, T22S, 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	65'	Water
Top of Salt	688'	Water
Base of Salt	3195'	Water
Delaware	3423'	Water
Brushy Canyon	5984'	Water/Oil/Gas
Bone Spring	7214'	Water
1st Bone Spring Ss	8169'	Water/Oil/Gas
2nd Bone Spring Ss	8784'	Water/Oil/Gas
3rd Bone Spring Sh	9711'	Water/Oil/Gas
Target/Land Curve	9791'	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 @ 663' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3295' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 9000' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22466 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 8500 feet) per Potash regulations.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 663'	13.375	54.5	J-55	BTC	New	2.77	3.86	23.61
12.25	0' – 3295'	9.625	40	J-55	BTC	New	1.93	2.56	4.78
8.75	0' – 3395'	7.625	29.7	RY P-110	Flush Joint	New	3.83	3.52	2.09
8.75	3395' – 9000'	7.625	29.7	HC L-80	Flush Joint	New	2.78	4.03	2.44
6.75	0' – 8900'	5.5	23	RY P-110	Semi-Premium	New	1.21	3.49	2.18
6.75	8900' - 9500'	5.5	23	RY P-110	Semi-Flush	New	1.21	3.27	4.68
6.75	9500' - 22466'	5.5	23	RY P-110	Semi-Flush	New	1.21	3.12	5.24

- 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
- 9.625 Collapse analyzed using 50% evacuation based on regional experience.
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on 2M annular & Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

- A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW 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: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 663'

Lead: 260 sxs EconoCem-HLTRRC (mixed at 12.9 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 = 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: 9.625, 40 New BTC, J-55 casing to be set at +/- 3295'

Lead: 1340 sxs Class C (mixed at 12.9 ppg, 1.39 ft³/sx, 10.13 gal/sx water)
 Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 Top of Cement: Surface
 Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9000'

1st Stage

Optional Lead: 150 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)
 TOC: 3095
 Tail: 280 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 TOC: Brushy Canyon @ 5984'
 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: 350 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
 Top of Cement: 0
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (5984") and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

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

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

Production Casing: 5.5, 23 New Semi-Flush, RY P-110 casing to be set at +/- 22466'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 8500 feet
 Tail: 950 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9124 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

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 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2472 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, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M 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' - 663'	17.5	FW/Native	8.5-9	35-40	NC
663' - 3295'	12.25	Brine	10-10.5	30-32	NC
3295' to 9000'	8.75	FW / Cut Brine	8.6-9.1	30-32	NC
9000' to 22466'	6.75	OBM	9-9.5	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 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 13.375 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 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 4665 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after DI 2 drilling is completed and BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - JRU DI11 Ekalaka U 822H

Measured Depth:	22466.00 ft	Slot:	JRU DI 11-D20
TVD RKB:	9968.00 ft		
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	506101.02 ft		
Easting:	633073.04 ft		
RKB:	3132.00 ft		
Ground Level:	3102.00 ft		
North Reference:	Grid		
Convergence Angle:	0.23 Deg		

Plan Sections JRU DI11 Ekalaka U 822H									
Measured		TVD		Build		Turn		Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	
0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	
4300.00	0.00	0.00	4300.00	0.00	-0.00	0.00	0.00	0.00	
4817.29	10.35	166.96	4814.48	-45.38	10.51	2.00	0.00	2.00	
7532.47	10.35	166.96	7485.52	-520.42	120.49	0.00	0.00	0.00	
8049.76	0.00	0.00	8000.00	-565.80	131.00	-2.00	0.00	2.00	
9124.75	0.00	0.00	9075.00	-565.80	131.00	0.00	0.00	0.00	
10249.75	90.00	90.00	9791.20	-565.80	847.20	8.00	0.00	8.00	Rev 2 FTP 16
22466.35	88.34	89.76	9968.00	-540.22	13062.05	-0.01	-0.00	0.01	Rev 2 BHL 16

Position Uncertainty JRU DI11 Ekalaka U 822H														
Measured			TVD Highside			Lateral		Vertical		Magnitude		Semi-major	Semi-minor	Semi-minor
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Tool
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.297	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.468	0.000	0.468	0.000	2.299	0.000	0.000	0.556	0.358	135.000	MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.983	0.000	0.983	0.000	2.307	0.000	0.000	1.191	0.717	135.000	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.403	0.000	1.403	0.000	2.321	0.000	0.000	1.668	1.075	135.000	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.797	0.000	1.797	0.000	2.340	0.000	0.000	2.099	1.434	135.000	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.179	0.000	2.179	0.000	2.364	0.000	0.000	2.507	1.792	135.000	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.554	0.000	2.554	0.000	2.393	0.000	0.000	2.902	2.151	135.000	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.925	0.000	2.925	0.000	2.428	0.000	0.000	3.288	2.509	135.000	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.292	0.000	3.292	0.000	2.467	0.000	0.000	3.669	2.867	135.000	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.659	0.000	3.659	0.000	2.511	0.000	0.000	4.046	3.226	135.000	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.024	0.000	4.024	0.000	2.559	0.000	0.000	4.420	3.584	135.000	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.387	0.000	4.387	0.000	2.613	0.000	0.000	4.791	3.943	135.000	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.751	0.000	4.751	0.000	2.670	0.000	0.000	5.161	4.302	135.000	MWD+IFR1+MS
1300.000	0.000	0.000	1300.000	5.113	0.000	5.113	0.000	2.731	0.000	0.000	5.529	4.660	135.000	MWD+IFR1+MS
1400.000	0.000	0.000	1400.000	5.474	0.000	5.474	0.000	2.797	0.000	0.000	5.896	5.018	135.000	MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.836	0.000	5.836	0.000	2.866	0.000	0.000	6.262	5.377	135.000	MWD+IFR1+MS
1600.000	0.000	0.000	1600.000	6.197	0.000	6.197	0.000	2.939	0.000	0.000	6.627	5.735	135.000	MWD+IFR1+MS

1700.000	0.000	0.000	1700.000	6.558	0.000	6.558	0.000	3.015	0.000	0.000	6.992	6.094	135.000	MWD+IFR1+MS
1800.000	0.000	0.000	1800.000	6.918	0.000	6.918	0.000	3.095	0.000	0.000	7.355	6.452	135.000	MWD+IFR1+MS
1900.000	0.000	0.000	1900.000	7.279	0.000	7.279	0.000	3.178	0.000	0.000	7.719	6.811	135.000	MWD+IFR1+MS
2000.000	0.000	0.000	2000.000	7.639	0.000	7.639	0.000	3.265	0.000	0.000	8.081	7.169	135.000	MWD+IFR1+MS
2100.000	0.000	0.000	2100.000	7.999	0.000	7.999	0.000	3.354	0.000	0.000	8.444	7.527	135.000	MWD+IFR1+MS
2200.000	0.000	0.000	2200.000	8.359	0.000	8.359	0.000	3.447	0.000	0.000	8.806	7.886	135.000	MWD+IFR1+MS
2300.000	0.000	0.000	2300.000	8.718	0.000	8.718	0.000	3.544	0.000	0.000	9.168	8.244	135.000	MWD+IFR1+MS
2400.000	0.000	0.000	2400.000	9.079	0.000	9.079	0.000	3.643	0.000	0.000	9.530	8.603	135.000	MWD+IFR1+MS
2500.000	0.000	0.000	2500.000	9.437	0.000	9.437	0.000	3.744	0.000	0.000	9.891	8.961	135.000	MWD+IFR1+MS
2600.000	0.000	0.000	2600.000	9.797	0.000	9.797	0.000	3.848	0.000	0.000	10.252	9.320	135.000	MWD+IFR1+MS
2700.000	0.000	0.000	2700.000	10.154	0.000	10.154	0.000	3.956	0.000	0.000	10.611	9.675	135.000	MWD+IFR1+MS
2800.000	0.000	0.000	2800.000	10.512	0.000	10.512	0.000	4.066	0.000	0.000	10.970	10.032	135.000	MWD+IFR1+MS
2900.000	0.000	0.000	2900.000	10.872	0.000	10.872	0.000	4.179	0.000	0.000	11.332	10.392	135.000	MWD+IFR1+MS
3000.000	0.000	0.000	3000.000	11.234	0.000	11.234	0.000	4.294	0.000	0.000	11.695	10.753	135.000	MWD+IFR1+MS
3100.000	0.000	0.000	3100.000	11.593	0.000	11.593	0.000	4.412	0.000	0.000	12.055	11.112	135.000	MWD+IFR1+MS
3200.000	0.000	0.000	3200.000	11.950	0.000	11.950	0.000	4.533	0.000	0.000	12.413	11.468	135.000	MWD+IFR1+MS
3300.000	0.000	0.000	3300.000	12.309	0.000	12.309	0.000	4.656	0.000	0.000	12.773	11.826	135.000	MWD+IFR1+MS
3400.000	0.000	0.000	3400.000	12.669	0.000	12.669	0.000	4.782	0.000	0.000	13.134	12.186	135.000	MWD+IFR1+MS
3500.000	0.000	0.000	3500.000	13.027	0.000	13.027	0.000	4.911	0.000	0.000	13.493	12.543	135.000	MWD+IFR1+MS
3600.000	0.000	0.000	3600.000	13.387	0.000	13.387	0.000	5.043	0.000	0.000	13.854	12.902	135.000	MWD+IFR1+MS
3700.000	0.000	0.000	3700.000	13.748	0.000	13.748	0.000	5.176	0.000	0.000	14.216	13.263	135.000	MWD+IFR1+MS
3800.000	0.000	0.000	3800.000	14.107	0.000	14.107	0.000	5.313	0.000	0.000	14.576	13.621	135.000	MWD+IFR1+MS
3900.000	0.000	0.000	3900.000	14.464	0.000	14.464	0.000	5.452	0.000	0.000	14.934	13.978	135.000	MWD+IFR1+MS
4000.000	0.000	0.000	4000.000	14.822	0.000	14.822	0.000	5.594	0.000	0.000	15.293	14.336	135.000	MWD+IFR1+MS
4100.000	0.000	0.000	4100.000	15.182	0.000	15.182	0.000	5.738	0.000	0.000	15.654	14.696	135.000	MWD+IFR1+MS
4200.000	0.000	0.000	4200.000	15.540	0.000	15.540	0.000	5.884	0.000	0.000	16.012	15.053	135.000	MWD+IFR1+MS
4300.000	0.000	0.000	4300.000	15.900	0.000	15.900	0.000	6.033	0.000	0.000	16.373	15.412	135.000	MWD+IFR1+MS
4400.000	1.999	166.900	4399.980	16.040	0.000	16.437	-0.000	6.185	0.000	0.000	16.700	15.774	134.333	MWD+IFR1+MS
4500.000	4.000	166.900	4499.838	16.498	0.000	16.758	-0.000	6.340	0.000	0.000	17.105	16.172	128.954	MWD+IFR1+MS
4600.000	6.000	166.900	4599.452	16.933	0.000	17.082	-0.000	6.498	0.000	0.000	17.521	16.553	124.144	MWD+IFR1+MS
4700.000	7.999	166.900	4698.702	17.342	0.000	17.403	-0.000	6.660	0.000	0.000	17.942	16.917	119.982	MWD+IFR1+MS
4800.000	10.000	166.900	4797.465	17.731	0.000	17.729	-0.000	6.826	0.000	0.000	18.370	17.273	116.609	MWD+IFR1+MS
4817.200	10.340	166.900	4814.483	17.771	0.000	17.782	-0.000	6.852	0.000	0.000	18.423	17.329	116.550	MWD+IFR1+MS
4900.000	10.340	166.900	4895.849	18.030	0.000	18.046	-0.000	6.987	0.000	0.000	18.677	17.595	116.688	MWD+IFR1+MS
5000.000	10.340	166.900	4994.224	18.352	0.000	18.371	-0.000	7.154	0.000	0.000	18.996	17.918	116.888	MWD+IFR1+MS
5100.000	10.340	166.900	5092.598	18.675	0.000	18.699	-0.000	7.324	0.000	0.000	19.318	18.243	117.124	MWD+IFR1+MS
5200.000	10.340	166.900	5190.972	19.002	0.000	19.029	-0.000	7.497	0.000	0.000	19.644	18.570	117.361	MWD+IFR1+MS
5300.000	10.340	166.900	5289.346	19.330	0.000	19.359	-0.000	7.673	0.000	0.000	19.970	18.897	117.526	MWD+IFR1+MS
5400.000	10.340	166.900	5387.720	19.661	0.000	19.694	-0.000	7.852	0.000	0.000	20.300	19.228	117.742	MWD+IFR1+MS
5500.000	10.340	166.900	5486.095	19.994	0.000	20.027	-0.000	8.034	0.000	0.000	20.630	19.560	117.889	MWD+IFR1+MS
5600.000	10.340	166.900	5584.469	20.327	0.000	20.363	-0.000	8.219	0.000	0.000	20.961	19.893	118.093	MWD+IFR1+MS
5700.000	10.340	166.900	5682.843	20.664	0.000	20.701	-0.000	8.407	0.000	0.000	21.296	20.228	118.237	MWD+IFR1+MS
5800.000	10.340	166.900	5781.217	21.001	0.000	21.038	-0.000	8.598	0.000	0.000	21.630	20.563	118.370	MWD+IFR1+MS
5900.000	10.340	166.900	5879.591	21.340	0.000	21.376	-0.000	8.791	0.000	0.000	21.966	20.900	118.499	MWD+IFR1+MS
6000.000	10.340	166.900	5977.966	21.680	0.000	21.716	-0.000	8.988	0.000	0.000	22.304	21.238	118.624	MWD+IFR1+MS
6100.000	10.340	166.900	6076.340	22.020	0.000	22.058	-0.000	9.187	0.000	0.000	22.641	21.578	118.797	MWD+IFR1+MS
6200.000	10.340	166.900	6174.714	22.364	0.000	22.399	-0.000	9.389	0.000	0.000	22.981	21.917	118.864	MWD+IFR1+MS
6300.000	10.340	166.900	6273.088	22.707	0.000	22.742	-0.000	9.594	0.000	0.000	23.321	22.258	118.972	MWD+IFR1+MS
6400.000	10.340	166.900	6371.462	23.053	0.000	23.086	-0.000	9.801	0.000	0.000	23.664	22.602	119.028	MWD+IFR1+MS
6500.000	10.340	166.900	6469.837	23.399	0.000	23.431	-0.000	10.010	0.000	0.000	24.007	22.945	119.137	MWD+IFR1+MS
6600.000	10.340	166.900	6568.211	23.745	0.000	23.775	-0.000	10.223	0.000	0.000	24.348	23.288	119.238	MWD+IFR1+MS
6700.000	10.340	166.900	6666.585	24.094	0.000	24.123	-0.000	10.440	0.000	0.000	24.694	23.635	119.330	MWD+IFR1+MS
6800.000	10.340	166.900	6764.959	24.444	0.000	24.468	-0.000	10.658	0.000	0.000	25.039	23.980	119.331	MWD+IFR1+MS

6900.000	10.340	166.900	6863.334	24.793	0.000	24.816	-0.000	10.881	0.000	0.000	25.385	24.327	119.419	MWD+IFR1+MS
7000.000	10.340	166.900	6961.708	25.144	0.000	25.165	-0.000	11.104	0.000	0.000	25.732	24.676	119.511	MWD+IFR1+MS
7100.000	10.340	166.900	7060.082	25.495	0.000	25.514	-0.000	11.331	0.000	0.000	26.079	25.024	119.549	MWD+IFR1+MS
7200.000	10.340	166.900	7158.456	25.848	0.000	25.863	-0.000	11.559	0.000	0.000	26.428	25.373	119.586	MWD+IFR1+MS
7300.000	10.340	166.900	7256.830	26.202	0.000	26.212	-0.000	11.794	0.000	0.000	26.777	25.722	119.573	MWD+IFR1+MS
7400.000	10.340	166.900	7355.205	26.555	0.000	26.563	-0.000	12.029	0.000	0.000	27.126	26.073	119.653	MWD+IFR1+MS
7500.000	10.340	166.900	7453.579	26.911	0.000	26.914	-0.000	12.268	0.000	0.000	27.477	26.424	119.639	MWD+IFR1+MS
7532.400	10.340	166.900	7485.517	27.025	0.000	27.025	-0.000	12.345	0.000	0.000	27.587	26.537	119.601	MWD+IFR1+MS
7600.000	8.994	166.900	7552.089	27.316	0.000	27.260	-0.000	12.510	0.000	0.000	27.821	26.776	119.492	MWD+IFR1+MS
7700.000	6.995	166.900	7651.112	27.785	0.000	27.607	-0.000	12.755	0.000	0.000	28.215	27.141	117.848	MWD+IFR1+MS
7800.000	4.995	166.900	7750.560	28.250	0.000	27.957	-0.000	13.004	0.000	0.000	28.633	27.510	115.778	MWD+IFR1+MS
7900.000	2.995	166.900	7850.312	28.683	0.000	28.305	-0.000	13.251	0.000	0.000	29.050	27.873	113.915	MWD+IFR1+MS
8000.000	0.995	166.900	7950.246	29.081	0.000	28.649	-0.000	13.498	0.000	0.000	29.464	28.229	112.267	MWD+IFR1+MS
8049.700	0.000	0.000	8000.000	29.457	0.000	28.580	0.000	13.624	0.000	0.000	29.630	28.401	112.233	MWD+IFR1+MS
8100.000	0.000	0.000	8050.244	29.624	0.000	28.754	0.000	13.748	0.000	0.000	29.797	28.575	112.301	MWD+IFR1+MS
8200.000	0.000	0.000	8150.244	29.960	0.000	29.102	0.000	14.000	0.000	0.000	30.134	28.921	112.460	MWD+IFR1+MS
8300.000	0.000	0.000	8250.244	30.299	0.000	29.452	0.000	14.255	0.000	0.000	30.475	29.269	112.702	MWD+IFR1+MS
8400.000	0.000	0.000	8350.244	30.637	0.000	29.803	0.000	14.512	0.000	0.000	30.816	29.617	112.975	MWD+IFR1+MS
8500.000	0.000	0.000	8450.244	30.976	0.000	30.153	0.000	14.772	0.000	0.000	31.158	29.964	113.216	MWD+IFR1+MS
8600.000	0.000	0.000	8550.244	31.315	0.000	30.504	0.000	15.033	0.000	0.000	31.500	30.312	113.483	MWD+IFR1+MS
8700.000	0.000	0.000	8650.244	31.654	0.000	30.856	0.000	15.300	0.000	0.000	31.843	30.662	113.740	MWD+IFR1+MS
8800.000	0.000	0.000	8750.244	31.984	0.000	31.207	0.000	15.569	0.000	0.000	32.177	31.008	114.174	MWD+IFR1+MS
8900.000	0.000	0.000	8850.244	32.326	0.000	31.558	0.000	15.840	0.000	0.000	32.522	31.356	114.373	MWD+IFR1+MS
9000.000	0.000	0.000	8950.244	32.665	0.000	31.906	0.000	16.115	0.000	0.000	32.863	31.702	114.593	MWD+IFR1+MS
9100.000	0.000	0.000	9050.244	33.015	0.000	32.249	0.000	16.395	0.000	0.000	33.213	32.045	114.500	MWD+IFR1+MS
9124.700	0.000	0.000	9075.000	33.091	0.000	32.342	0.000	16.462	0.000	0.000	33.291	32.136	114.796	MWD+IFR1+MS
9200.000	6.019	90.000	9150.106	32.610	0.000	33.347	0.000	16.676	0.000	0.000	33.561	32.491	116.769	MWD+IFR1+MS
9300.000	14.010	90.000	9248.501	33.420	0.000	33.690	0.000	17.018	0.000	0.000	34.240	33.461	-32.661	MWD+IFR1+MS
9400.000	22.010	90.000	9343.518	34.021	0.000	34.015	0.000	17.521	0.000	0.000	35.486	33.967	-10.089	MWD+IFR1+MS
9500.000	30.010	90.000	9433.310	34.179	0.000	34.322	0.000	18.229	0.000	0.000	36.714	34.308	-4.254	MWD+IFR1+MS
9600.000	38.010	90.000	9516.127	33.905	0.000	34.627	0.000	19.173	0.000	0.000	37.739	34.623	-1.899	MWD+IFR1+MS
9700.000	46.010	90.000	9590.359	33.303	0.000	34.914	0.000	20.352	0.000	0.000	38.575	34.914	-0.613	MWD+IFR1+MS
9800.000	54.010	90.000	9654.559	32.444	0.000	35.185	0.000	21.735	0.000	0.000	39.192	35.185	0.180	MWD+IFR1+MS
9900.000	62.010	90.000	9707.479	31.464	0.000	35.426	0.000	23.279	0.000	0.000	39.636	35.425	0.686	MWD+IFR1+MS
10000.000	70.010	90.000	9748.089	30.490	0.000	35.637	0.000	24.928	0.000	0.000	39.901	35.636	0.982	MWD+IFR1+MS
10100.000	78.010	90.000	9775.597	29.687	0.000	35.833	0.000	26.625	0.000	0.000	40.039	35.831	1.080	MWD+IFR1+MS
10200.000	86.010	90.000	9789.470	29.209	0.000	36.014	0.000	28.313	0.000	0.000	40.088	36.013	0.962	MWD+IFR1+MS
10249.000	90.000	90.000	9791.197	28.594	0.000	36.083	0.000	28.594	0.000	0.000	40.101	36.082	0.795	MWD+IFR1+MS
10300.000	89.980	89.980	9791.200	28.699	0.000	36.152	0.000	28.695	0.000	0.000	40.100	36.152	0.604	MWD+IFR1+MS
10400.000	89.970	89.980	9791.224	28.868	0.000	36.318	0.000	28.862	0.000	0.000	40.112	36.318	0.206	MWD+IFR1+MS
10500.000	89.950	89.980	9791.271	29.062	0.000	36.497	0.000	29.052	0.000	0.000	40.125	36.497	-0.224	MWD+IFR1+MS
10600.000	89.950	89.980	9791.343	29.271	0.000	36.688	0.000	29.261	0.000	0.000	40.138	36.687	-0.696	MWD+IFR1+MS
10700.000	89.930	89.980	9791.437	29.503	0.000	36.905	0.000	29.489	0.000	0.000	40.151	36.904	-1.225	MWD+IFR1+MS
10800.000	89.920	89.980	9791.556	29.753	0.000	37.135	0.000	29.737	0.000	0.000	40.165	37.132	-1.828	MWD+IFR1+MS
10900.000	89.910	89.980	9791.698	30.021	0.000	37.390	0.000	30.003	0.000	0.000	40.180	37.384	-2.540	MWD+IFR1+MS
11000.000	89.890	89.980	9791.864	30.310	0.000	37.656	0.000	30.289	0.000	0.000	40.208	37.647	-3.376	MWD+IFR1+MS
11100.000	89.880	89.980	9792.054	30.614	0.000	37.934	0.000	30.591	0.000	0.000	40.225	37.920	-4.420	MWD+IFR1+MS
11200.000	89.870	89.980	9792.267	30.935	0.000	38.223	0.000	30.910	0.000	0.000	40.244	38.202	-5.746	MWD+IFR1+MS
11300.000	89.840	89.970	9792.504	31.275	0.000	38.535	0.000	31.244	0.000	0.000	40.279	38.505	-7.497	MWD+IFR1+MS
11400.000	89.840	89.970	9792.765	31.626	0.000	38.858	0.000	31.596	0.000	0.000	40.306	38.813	-10.000	MWD+IFR1+MS
11500.000	89.830	89.970	9793.049	31.985	0.000	39.204	0.000	31.953	0.000	0.000	40.354	39.135	-13.716	MWD+IFR1+MS
11600.000	89.810	89.970	9793.357	32.377	0.000	39.560	0.000	32.342	0.000	0.000	40.419	39.450	-19.579	MWD+IFR1+MS
11700.000	89.800	89.970	9793.689	32.778	0.000	39.925	0.000	32.741	0.000	0.000	40.509	39.737	-29.458	MWD+IFR1+MS

11800.000	89.780	89.950	9794.044	33.191	0.000	40.298	0.000	33.151	0.000	0.000	40.678	39.966	-43.003	MWD+IFR1+MS
11900.000	89.770	89.950	9794.424	33.611	0.000	40.693	0.000	33.571	0.000	0.000	40.944	40.120	123.542	MWD+IFR1+MS
12000.000	89.760	89.950	9794.826	34.042	0.000	41.097	0.000	34.000	0.000	0.000	41.280	40.212	114.532	MWD+IFR1+MS
12100.000	89.730	89.950	9795.253	34.499	0.000	41.520	0.000	34.453	0.000	0.000	41.665	40.274	108.922	MWD+IFR1+MS
12200.000	89.730	89.950	9795.703	34.960	0.000	41.952	0.000	34.914	0.000	0.000	42.074	40.321	105.434	MWD+IFR1+MS
12300.000	89.720	89.950	9796.177	35.430	0.000	42.390	0.000	35.384	0.000	0.000	42.499	40.371	103.184	MWD+IFR1+MS
12400.000	89.700	89.950	9796.675	35.924	0.000	42.836	0.000	35.875	0.000	0.000	42.935	40.405	101.519	MWD+IFR1+MS
12500.000	89.690	89.950	9797.196	36.410	0.000	43.300	0.000	36.359	0.000	0.000	43.392	40.437	100.243	MWD+IFR1+MS
12600.000	89.680	89.950	9797.741	36.916	0.000	43.783	0.000	36.865	0.000	0.000	43.868	40.467	99.236	MWD+IFR1+MS
12700.000	89.660	89.950	9798.310	37.430	0.000	44.260	0.000	37.376	0.000	0.000	44.341	40.508	98.496	MWD+IFR1+MS
12800.000	89.650	89.940	9798.902	37.962	0.000	44.754	0.000	37.908	0.000	0.000	44.831	40.548	97.869	MWD+IFR1+MS
12900.000	89.640	89.940	9799.519	38.487	0.000	45.254	0.000	38.432	0.000	0.000	45.328	40.575	97.332	MWD+IFR1+MS
13000.000	89.620	89.940	9800.158	39.032	0.000	45.770	0.000	38.974	0.000	0.000	45.842	40.614	96.881	MWD+IFR1+MS
13100.000	89.610	89.940	9800.822	39.580	0.000	46.291	0.000	39.522	0.000	0.000	46.361	40.653	96.495	MWD+IFR1+MS
13200.000	89.590	89.940	9801.509	40.135	0.000	46.817	0.000	40.075	0.000	0.000	46.885	40.679	96.151	MWD+IFR1+MS
13300.000	89.580	89.940	9802.220	40.705	0.000	47.348	0.000	40.645	0.000	0.000	47.415	40.717	95.861	MWD+IFR1+MS
13400.000	89.560	89.930	9802.955	41.281	0.000	47.894	0.000	41.219	0.000	0.000	47.959	40.754	95.596	MWD+IFR1+MS
13500.000	89.550	89.930	9803.713	41.860	0.000	48.455	0.000	41.797	0.000	0.000	48.518	40.792	95.353	MWD+IFR1+MS
13600.000	89.540	89.930	9804.495	42.443	0.000	49.009	0.000	42.379	0.000	0.000	49.071	40.842	95.150	MWD+IFR1+MS
13700.000	89.530	89.930	9805.300	43.029	0.000	49.577	0.000	42.965	0.000	0.000	49.638	40.879	94.953	MWD+IFR1+MS
13800.000	89.510	89.930	9806.130	43.632	0.000	50.148	0.000	43.566	0.000	0.000	50.208	40.916	94.776	MWD+IFR1+MS
13900.000	89.500	89.920	9806.983	44.236	0.000	50.733	0.000	44.170	0.000	0.000	50.792	40.953	94.609	MWD+IFR1+MS
14000.000	89.480	89.920	9807.860	44.845	0.000	51.320	0.000	44.777	0.000	0.000	51.379	41.002	94.461	MWD+IFR1+MS
14100.000	89.470	89.920	9808.760	45.455	0.000	51.911	0.000	45.387	0.000	0.000	51.969	41.039	94.322	MWD+IFR1+MS
14200.000	89.450	89.920	9809.684	46.080	0.000	52.515	0.000	46.011	0.000	0.000	52.571	41.088	94.193	MWD+IFR1+MS
14300.000	89.450	89.920	9810.632	46.705	0.000	53.120	0.000	46.637	0.000	0.000	53.176	41.125	94.070	MWD+IFR1+MS
14400.000	89.430	89.910	9811.604	47.335	0.000	53.728	0.000	47.265	0.000	0.000	53.784	41.174	93.959	MWD+IFR1+MS
14500.000	89.420	89.910	9812.599	47.966	0.000	54.348	0.000	47.896	0.000	0.000	54.403	41.223	93.853	MWD+IFR1+MS
14600.000	89.400	89.910	9813.618	48.610	0.000	54.970	0.000	48.539	0.000	0.000	55.024	41.271	93.754	MWD+IFR1+MS
14700.000	89.390	89.910	9814.660	49.255	0.000	55.594	0.000	49.183	0.000	0.000	55.648	41.320	93.661	MWD+IFR1+MS
14800.000	89.380	89.910	9815.727	49.902	0.000	56.229	0.000	49.830	0.000	0.000	56.282	41.368	93.572	MWD+IFR1+MS
14900.000	89.360	89.900	9816.817	50.551	0.000	56.857	0.000	50.478	0.000	0.000	56.909	41.417	93.490	MWD+IFR1+MS
15000.000	89.340	89.900	9817.930	51.202	0.000	57.504	0.000	51.127	0.000	0.000	57.555	41.465	93.409	MWD+IFR1+MS
15100.000	89.340	89.900	9819.068	51.862	0.000	58.143	0.000	51.788	0.000	0.000	58.195	41.514	93.334	MWD+IFR1+MS
15200.000	89.310	89.900	9820.229	52.526	0.000	58.793	0.000	52.450	0.000	0.000	58.844	41.574	93.263	MWD+IFR1+MS
15300.000	89.310	89.900	9821.413	53.188	0.000	59.453	0.000	53.113	0.000	0.000	59.503	41.622	93.191	MWD+IFR1+MS
15400.000	89.300	89.890	9822.622	53.862	0.000	60.105	0.000	53.787	0.000	0.000	60.155	41.670	93.126	MWD+IFR1+MS
15500.000	89.280	89.890	9823.854	54.528	0.000	60.767	0.000	54.452	0.000	0.000	60.816	41.730	93.065	MWD+IFR1+MS
15600.000	89.270	89.890	9825.110	55.203	0.000	61.438	0.000	55.127	0.000	0.000	61.486	41.790	93.002	MWD+IFR1+MS
15700.000	89.260	89.890	9826.389	55.879	0.000	62.101	0.000	55.803	0.000	0.000	62.150	41.838	92.946	MWD+IFR1+MS
15800.000	89.230	89.890	9827.693	56.567	0.000	62.774	0.000	56.489	0.000	0.000	62.822	41.898	92.892	MWD+IFR1+MS
15900.000	89.230	89.880	9829.020	57.244	0.000	63.455	0.000	57.166	0.000	0.000	63.502	41.958	92.836	MWD+IFR1+MS
16000.000	89.200	89.880	9830.370	57.932	0.000	64.129	0.000	57.853	0.000	0.000	64.176	42.017	92.787	MWD+IFR1+MS
16100.000	89.200	89.880	9831.744	58.619	0.000	64.811	0.000	58.541	0.000	0.000	64.858	42.077	92.737	MWD+IFR1+MS
16200.000	89.190	89.880	9833.142	59.307	0.000	65.502	0.000	59.228	0.000	0.000	65.548	42.136	92.690	MWD+IFR1+MS
16300.000	89.170	89.880	9834.564	60.004	0.000	66.185	0.000	59.925	0.000	0.000	66.231	42.195	92.644	MWD+IFR1+MS
16400.000	89.160	89.870	9836.009	60.701	0.000	66.876	0.000	60.622	0.000	0.000	66.922	42.255	92.599	MWD+IFR1+MS
16500.000	89.150	89.870	9837.479	61.398	0.000	67.575	0.000	61.319	0.000	0.000	67.621	42.326	92.558	MWD+IFR1+MS
16600.000	89.130	89.870	9838.971	62.096	0.000	68.275	0.000	62.016	0.000	0.000	68.319	42.385	92.516	MWD+IFR1+MS
16700.000	89.120	89.870	9840.488	62.794	0.000	68.974	0.000	62.714	0.000	0.000	69.018	42.444	92.475	MWD+IFR1+MS
16800.000	89.110	89.870	9842.028	63.499	0.000	69.673	0.000	63.419	0.000	0.000	69.717	42.514	92.437	MWD+IFR1+MS
16900.000	89.090	89.860	9843.592	64.206	0.000	70.380	0.000	64.125	0.000	0.000	70.424	42.573	92.399	MWD+IFR1+MS
17000.000	89.080	89.860	9845.179	64.911	0.000	71.087	0.000	64.831	0.000	0.000	71.130	42.644	92.363	MWD+IFR1+MS

17100.000	89.060	89.860	9846.790	65.618	0.000	71.794	0.000	65.536	0.000	0.000	71.837	42.714	92.328	MWD+IFR1+MS
17200.000	89.050	89.860	9848.425	66.331	0.000	72.507	0.000	66.250	0.000	0.000	72.550	42.784	92.294	MWD+IFR1+MS
17300.000	89.040	89.860	9850.084	67.044	0.000	73.221	0.000	66.963	0.000	0.000	73.263	42.854	92.261	MWD+IFR1+MS
17400.000	89.020	89.840	9851.766	67.758	0.000	73.934	0.000	67.676	0.000	0.000	73.976	42.924	92.229	MWD+IFR1+MS
17500.000	89.010	89.840	9853.472	68.471	0.000	74.654	0.000	68.389	0.000	0.000	74.696	42.994	92.197	MWD+IFR1+MS
17600.000	89.000	89.840	9855.202	69.190	0.000	75.373	0.000	69.109	0.000	0.000	75.415	43.064	92.167	MWD+IFR1+MS
17700.000	88.980	89.840	9856.955	69.911	0.000	76.093	0.000	69.828	0.000	0.000	76.135	43.134	92.137	MWD+IFR1+MS
17800.000	88.970	89.840	9858.732	70.630	0.000	76.819	0.000	70.548	0.000	0.000	76.860	43.203	92.107	MWD+IFR1+MS
17900.000	88.950	89.840	9860.533	71.350	0.000	77.544	0.000	71.267	0.000	0.000	77.585	43.284	92.079	MWD+IFR1+MS
18000.000	88.940	89.840	9862.358	72.069	0.000	78.276	0.000	71.986	0.000	0.000	78.316	43.354	92.052	MWD+IFR1+MS
18100.000	88.930	89.840	9864.206	72.795	0.000	79.001	0.000	72.712	0.000	0.000	79.041	43.434	92.025	MWD+IFR1+MS
18200.000	88.920	89.840	9866.078	73.520	0.000	79.738	0.000	73.437	0.000	0.000	79.777	43.504	91.998	MWD+IFR1+MS
18300.000	88.900	89.840	9867.973	74.245	0.000	80.468	0.000	74.162	0.000	0.000	80.507	43.584	91.974	MWD+IFR1+MS
18400.000	88.890	89.830	9869.892	74.977	0.000	81.204	0.000	74.893	0.000	0.000	81.243	43.664	91.948	MWD+IFR1+MS
18500.000	88.870	89.830	9871.835	75.701	0.000	81.939	0.000	75.617	0.000	0.000	81.978	43.744	91.924	MWD+IFR1+MS
18600.000	88.860	89.830	9873.802	76.432	0.000	82.674	0.000	76.348	0.000	0.000	82.713	43.825	91.900	MWD+IFR1+MS
18700.000	88.840	89.830	9875.792	77.162	0.000	83.414	0.000	77.078	0.000	0.000	83.453	43.904	91.877	MWD+IFR1+MS
18800.000	88.830	89.830	9877.806	77.892	0.000	84.154	0.000	77.807	0.000	0.000	84.193	43.984	91.853	MWD+IFR1+MS
18900.000	88.810	89.830	9879.844	78.628	0.000	84.900	0.000	78.543	0.000	0.000	84.938	44.064	91.831	MWD+IFR1+MS
19000.000	88.810	89.810	9881.905	79.362	0.000	85.638	0.000	79.278	0.000	0.000	85.676	44.143	91.810	MWD+IFR1+MS
19100.000	88.790	89.810	9883.990	80.097	0.000	86.382	0.000	80.012	0.000	0.000	86.420	44.234	91.789	MWD+IFR1+MS
19200.000	88.780	89.810	9886.099	80.831	0.000	87.131	0.000	80.747	0.000	0.000	87.169	44.313	91.767	MWD+IFR1+MS
19300.000	88.770	89.810	9888.231	81.570	0.000	87.879	0.000	81.486	0.000	0.000	87.917	44.392	91.747	MWD+IFR1+MS
19400.000	88.750	89.810	9890.387	82.304	0.000	88.627	0.000	82.219	0.000	0.000	88.664	44.482	91.727	MWD+IFR1+MS
19500.000	88.730	89.810	9892.567	83.043	0.000	89.374	0.000	82.958	0.000	0.000	89.411	44.572	91.707	MWD+IFR1+MS
19600.000	88.730	89.810	9894.770	83.780	0.000	90.126	0.000	83.696	0.000	0.000	90.163	44.651	91.688	MWD+IFR1+MS
19700.000	88.700	89.810	9896.998	84.525	0.000	90.878	0.000	84.439	0.000	0.000	90.914	44.740	91.669	MWD+IFR1+MS
19800.000	88.700	89.810	9899.248	85.261	0.000	91.634	0.000	85.176	0.000	0.000	91.670	44.830	91.651	MWD+IFR1+MS
19900.000	88.680	89.810	9901.523	86.004	0.000	92.383	0.000	85.919	0.000	0.000	92.419	44.919	91.633	MWD+IFR1+MS
20000.000	88.670	89.800	9903.821	86.745	0.000	93.143	0.000	86.660	0.000	0.000	93.179	45.008	91.615	MWD+IFR1+MS
20100.000	88.660	89.800	9906.143	87.492	0.000	93.897	0.000	87.407	0.000	0.000	93.932	45.097	91.597	MWD+IFR1+MS
20200.000	88.640	89.800	9908.489	88.233	0.000	94.655	0.000	88.148	0.000	0.000	94.690	45.197	91.580	MWD+IFR1+MS
20300.000	88.630	89.800	9910.858	88.978	0.000	95.413	0.000	88.893	0.000	0.000	95.448	45.285	91.563	MWD+IFR1+MS
20400.000	88.620	89.800	9913.251	89.723	0.000	96.169	0.000	89.638	0.000	0.000	96.204	45.374	91.547	MWD+IFR1+MS
20500.000	88.590	89.790	9915.668	90.469	0.000	96.930	0.000	90.383	0.000	0.000	96.965	45.473	91.530	MWD+IFR1+MS
20600.000	88.590	89.790	9918.108	91.217	0.000	97.691	0.000	91.132	0.000	0.000	97.725	45.561	91.515	MWD+IFR1+MS
20700.000	88.580	89.790	9920.572	91.966	0.000	98.455	0.000	91.880	0.000	0.000	98.490	45.660	91.499	MWD+IFR1+MS
20800.000	88.560	89.790	9923.060	92.714	0.000	99.219	0.000	92.628	0.000	0.000	99.253	45.758	91.483	MWD+IFR1+MS
20900.000	88.550	89.790	9925.571	93.461	0.000	99.982	0.000	93.376	0.000	0.000	100.016	45.846	91.468	MWD+IFR1+MS
21000.000	88.540	89.780	9928.106	94.208	0.000	100.739	0.000	94.122	0.000	0.000	100.773	45.944	91.454	MWD+IFR1+MS
21100.000	88.520	89.780	9930.665	94.959	0.000	101.481	0.000	94.874	0.000	0.000	101.514	46.042	91.440	MWD+IFR1+MS
21200.000	88.510	89.780	9933.248	95.710	0.000	102.266	0.000	95.624	0.000	0.000	102.299	46.139	91.425	MWD+IFR1+MS
21300.000	88.480	89.780	9935.854	96.461	0.000	103.045	0.000	96.374	0.000	0.000	103.078	46.248	91.410	MWD+IFR1+MS
21400.000	88.480	89.780	9938.484	97.209	0.000	103.770	0.000	97.124	0.000	0.000	103.803	46.345	91.397	MWD+IFR1+MS
21500.000	88.470	89.770	9941.137	97.963	0.000	104.538	0.000	97.877	0.000	0.000	104.571	46.442	91.384	MWD+IFR1+MS
21600.000	88.450	89.770	9943.814	98.717	0.000	105.348	0.000	98.631	0.000	0.000	105.381	46.539	91.369	MWD+IFR1+MS
21700.000	88.440	89.770	9946.515	99.469	0.000	106.104	0.000	99.383	0.000	0.000	106.137	46.647	91.356	MWD+IFR1+MS
21800.000	88.430	89.770	9949.240	100.186	0.000	106.856	0.000	100.100	0.000	0.000	106.888	46.754	91.344	MWD+IFR1+MS
21900.000	88.410	89.770	9951.988	100.932	0.000	107.648	0.000	100.846	0.000	0.000	107.680	46.850	91.330	MWD+IFR1+MS
22000.000	88.400	89.760	9954.760	101.722	0.000	108.434	0.000	101.637	0.000	0.000	108.467	46.957	91.317	MWD+IFR1+MS
22100.000	88.390	89.760	9957.556	102.458	0.000	109.169	0.000	102.372	0.000	0.000	109.202	47.063	91.305	MWD+IFR1+MS
22200.000	88.370	89.760	9960.375	103.236	0.000	109.945	0.000	103.150	0.000	0.000	109.977	47.170	91.293	MWD+IFR1+MS
22300.000	88.360	89.760	9963.218	103.961	0.000	110.716	0.000	103.875	0.000	0.000	110.748	47.276	91.281	MWD+IFR1+MS

22400.000	88.340	89.760	9966.085	104.728	0.000	111.525	0.000	104.642	0.000	0.000	111.557	47.382	91.268	MWD+IFR1+MS
22466.000	88.340	89.750	9968.000	105.252	0.000	112.017	0.000	105.167	0.000	0.000	112.049	47.455	91.261	MWD+IFR1+MS

Plan Targets		JRU DI11 Ekalaka U 822H							
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape				
Kick Off Pt 20	9232.27	505647.10	633404.80	5851.80	CIRCLE				
Rev 2 FTP 16	10258.23	505535.20	633921.00	6650.00	CIRCLE				
FTP 42	10652.62	505647.10	634121.00	6568.00	RECTANGLE				
BHL 42	22755.62	505670.59	646134.72	6568.00	RECTANGLE				
Rev 2 BHL 16	22476.00	505560.78	646135.05	6826.00	CIRCLE				

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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 400015

CONDITIONS		
Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID:	373075
	Action Number:	400015
	Action Type:	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Prior to the submission of this C-104, there was a C-103 NOI submitted for approval. The C-103 NOI was not approved or rejected; however, the work requested in the C-103 NOI was performed and completed without NMOCD approval. This action is currently under review from our legal department.	11/13/2024