

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH	Well Location: T23S / R31E / SEC 6 / LOT 2 / 32.340066 / -103.814093	County or Parish/State: EDDY / NM
Well Number: 707H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM02953C	Unit or CA Name: JAMES RANCH UNIT	Unit or CA Number: NMNM70965X
US Well Number: 3001554874	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2785621

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 04/17/2024	Time Sundry Submitted: 01:18
Date proposed operation will begin: 05/15/2024	

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD as follows: SHL, FTP, LTP, BHL, total depth (measured) and TVD. The formation and pool will remain Los Medanos; Bone Springs. The casing and cement program are updated and are in the attached drilling plan. FROM: TO: SHL: 250' FNL & 1741' FEL of Section 6-T23S-R31E 155' FNL & 2050' FEL of Section 6-T23S-R31E FTP: 700' FSL & 990' FEL of Section 31-T22-R31E 330' FNL & 990' FEL of Section 6-T23S-R31E PPP 1-1: 1320' FSL & 996' FEL of Section 6-T23S-R31E 1320' FSL & 995' FEL of Section 6-T23S-R31E PPP 1-2: 0' FNL & 996' FEL of Section 6-T23S-R31E 0' FNL & 997' FEL of Section 6-T23S-R31E PPP 1-3: 1320' FNL & 996' FEL of Section 7-T23S-R31E 1320' FNL & 997' FEL of Section 7-T23S-R31E LTP: 2540' FNL & 990' FEL of Section 18-T23S-R31E 2540' FNL & 990' FEL of Section 18-T23-R31E BHL: 2590' FNL & 990' FEL of Section 18-T23S-R31E 2590' FNL & 990' FEL of Section 18-T23S-R31E Total depth will be changing from 24259' MD; 9878' TVD (Bone Spring) to 22510' MD; 9879' TVD (Bone Spring). Pool will remain Los Medanos; Bone Spring (40295). ATTACHMENTS: C-102, Drilling Plan, Directional Plan, MBS, Casing Spec Sheets

NOI Attachments

Procedure Description

- Wedge_461_5.500_0.361_P110_CY_01292024_20240417131802.pdf
- Wedge_441_5.500_0.361_P110_CY_12142023_20240417131752.pdf
- Talon_HTQ_RD_5.5000_20.0000_0.3610__P110_RY_20240417131739.pdf
- Freedom_5.5000_20.0000_0.3610__P110_RY_20240417131725.pdf
- 4_String_Slimhole_SDT_3301_1_20240417131507.pdf

Received by OCD: 6/7/2024 6:33:28 AMPage 2 of 24

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH		Well Location: T23S / R31E / SEC 6 / LOT 2 / 32.340066 / -103.814093	County or Parish/State: EDDY / NM
Well Number: 707H	Type of Well: OIL WELL		Allottee or Tribe Name:
Lease Number: NMNM02953C	Unit or CA Name: JAMES RANCH UNIT	Unit or CA Number: NMNM70965X	
US Well Number: 3001554874	Operator: XTO PERMIAN OPERATING LLC		

JRU_DI_7_Sawtooth_707H_Directional_Plan_8_29_2023_20240417131452.pdf

JRU_DI7_Sawtooth_707H_Drilling_Plan__04_16_2024_20240417131439.pdf

JRU_DI_7_SAWTOOTH_707H_C_102_signed_4_1_2024_20240417131403.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: MAY 10, 2024 09:15 AM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 6401 HOLIDAY HILL ROAD BLDG 5	
City: MIDLAND	State: 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: 06/05/2024
Signature: Chris Walls	

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

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

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

TYPE OF SUBMISSION	TYPE OF ACTION				
<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 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

Total depth will be changing from 24259 MD; 9878 TVD (Bone Spring) to 22510 MD; 9879 TVD (Bone Spring). Pool will remain Los Medanos; Bone Spring (40295).

ATTACHMENTS: C-102, Drilling Plan, Directional Plan, MBS, Casing Spec Sheets

Location of Well

- 0. SHL: LOT 2 / 250 FNL / 1741 FEL / TWSP: 23S / RANGE: 31E / SECTION: 6 / LAT: 32.340066 / LONG: -103.814093 (TVD: 0 feet, MD: 0 feet)
- PPP: SESE / 0 FNL / 996 FEL / TWSP: 23S / RANGE: 31E / SECTION: 7 / LAT: 32.326242 / LONG: -103.811633 (TVD: 9878 feet, MD: 17100 feet)
- PPP: NENE / 1320 FNL / 996 FEL / TWSP: 23S / RANGE: 31E / SECTION: 7 / LAT: 32.322612 / LONG: -103.811626 (TVD: 9878 feet, MD: 18420 feet)
- PPP: SESE / 700 FSL / 990 FEL / TWSP: 22S / RANGE: 31E / SECTION: 31 / LAT: 32.342677 / LONG: -103.811666 (TVD: 9878 feet, MD: 10500 feet)
- BHL: SENE / 2590 FNL / 990 FEL / TWSP: 23S / RANGE: 31E / SECTION: 18 / LAT: 32.304609 / LONG: -103.811591 (TVD: 9878 feet, MD: 24259 feet)



TenarisHydril Wedge 461®



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

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

Pipe Body Data

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

Connection Data

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

Notes

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

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

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TenarisHydril Wedge 441®



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

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

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	Tension Efficiency	81.50 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	522 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	12,640 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	81.50 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	522 x1000 lb	Operating Torque	32,000 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	72.59 °/100 ft	Yield Torque	38,000 ft-lb
		External Pressure Capacity	11,100 psi	Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) / 0.415 (23.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

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

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U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD

11/29/2021 4:16:04 PM

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		--
Outside Diameter	5.500	5.900	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	Pipe	USS-TALON HTQ™ RD		--
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		--
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	lb	--
Compression Rating	--	641,000	lb	--
Reference Length	--	21,370	ft	[5]
Maximum Uniaxial Bend Rating	--	91.7	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		--
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	17,000	ft-lb	[4]
Maximum Make-Up Torque	--	20,000	ft-lb	[4]
Maximum Operating Torque	--	39,500	ft-lb	[4]

UNCONTROLLED

Notes

1.

Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2.

Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3.

Uniaxial bend rating shown is structural only.
4.

Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5.

Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6.

Coupling must meet minimum mechanical properties of the pipe.

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U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ[®]

11/8/2023 1:08:50 PM



MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ [®]		--
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	Pipe	USS-FREEDOM HTQ [®]		--
Outside Diameter	5.500	6.300	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	Pipe	USS-FREEDOM HTQ [®]		--
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	--
PERFORMANCE	Pipe	USS-FREEDOM HTQ [®]		--
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	lb	--
Compression Rating	--	641,000	lb	--
Reference Length [4]	--	21,370	ft	--
Maximum Uniaxial Bend Rating [2]	--	91.7	deg/100 ft	--
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ [®]		--
Make-Up Loss	--	4.13	in.	--
Minimum Make-Up Torque [3]	--	15,000	ft-lb	--
Maximum Make-Up Torque [3]	--	21,000	ft-lb	--
Maximum Operating Torque[3]	--	29,500	ft-lb	--

UNCONTROLLED

Notes

1.

Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2.

Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3.

Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4.

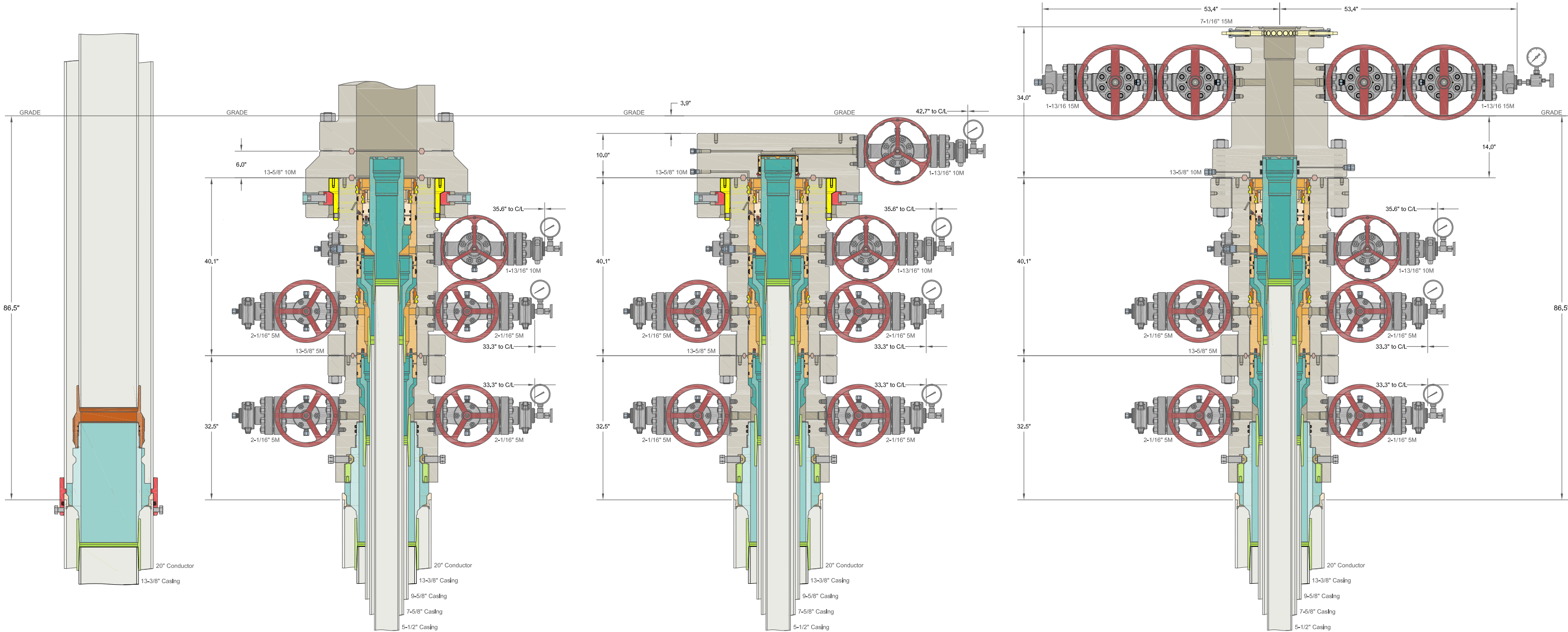
Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com



ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And Drilling & Skid Configurations

XTO ENERGY INC
DELAWARE BASIN

DRAWN VJK 31MAR22

APPRV

DRAWING NO. SDT-3301

Long Lead_Well Planning

EDDY

JRU DI 7 Pad C

JRU DI 7 Sawtooth 707H - Slot JRU DI 7 Sawtooth 707H

JRU DI 7 Sawtooth 707H

Plan: JRU DI 7 Sawtooth 707H

Standard Planning Report

29 August, 2023

ExxonMobil

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Site JRU DI 7 Pad C
Company:	Long Lead_Well Planning	TVD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Project:	EDDY	MD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Site:	JRU DI 7 Pad C	North Reference:	True
Well:	JRU DI 7 Sawtooth 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	JRU DI 7 Sawtooth 707H		
Design:	JRU DI 7 Sawtooth 707H		

Project	EDDY		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	JRU DI 7 Pad C		
Site Position:		Northing:	487,872.70 usft
From:	Map	Easting:	660,827.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 20' 24.731 N
		Longitude:	103° 48' 45.353 W

Well	JRU DI 7 Sawtooth 707H - Slot JRU DI 7 Sawtooth 707H		
Well Position	+N/-S	0.3 usft	Northing:
	+E/-W	-620.1 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
Grid Convergence:		0.28 °	
			Latitude:
			Longitude:
			Ground Level:

Wellbore	JRU DI 7 Sawtooth 707H		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2020	8/29/2023	6.41
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,308.98828368

Design	JRU DI 7 Sawtooth 707H		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.3	-620.1
			Direction
			(°)
			179.90

Plan Survey Tool Program	Date	8/29/2023		
Depth From	Depth To			
(usft)	(usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,509.9 JRU DI 7 Sawtooth 707H (JRU D	XOM_R2OWSG MWD+IFR1+	
			OWSG MWD + IFR1 + Multi-St	

ExxonMobil

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Site JRU DI 7 Pad C
Company:	Long Lead_Well Planning	TVD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Project:	EDDY	MD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Site:	JRU DI 7 Pad C	North Reference:	True
Well:	JRU DI 7 Sawtooth 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	JRU DI 7 Sawtooth 707H		
Design:	JRU DI 7 Sawtooth 707H		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.3	-620.1	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.3	-620.1	0.00	0.00	0.00	0.00	
1,867.7	13.35	99.38	1,861.7	-12.3	-543.7	2.00	2.00	0.00	99.38	
5,852.1	13.35	99.38	5,738.3	-162.3	364.3	0.00	0.00	0.00	0.00	
6,519.8	0.00	360.00	6,400.0	-174.9	440.8	2.00	-2.00	0.00	180.00	
9,282.6	0.00	360.00	9,162.8	-174.9	440.8	0.00	0.00	0.00	360.00	
10,407.6	90.00	179.90	9,879.0	-891.1	442.0	8.00	8.00	15.99	179.90	
22,459.9	90.00	179.90	9,879.0	-12,943.4	462.2	0.00	0.00	0.00	0.00	LTP 17-1
22,509.9	90.00	179.90	9,879.0	-12,993.4	462.3	0.00	0.00	0.00	0.00	BHL 17-1

ExxonMobil

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Site JRU DI 7 Pad C
Company:	Long Lead_Well Planning	TVD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Project:	EDDY	MD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Site:	JRU DI 7 Pad C	North Reference:	True
Well:	JRU DI 7 Sawtooth 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	JRU DI 7 Sawtooth 707H		
Design:	JRU DI 7 Sawtooth 707H		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.3	-620.1	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.3	-620.1	0.0	0.00	0.00	0.00	
1,300.0	2.00	99.38	1,300.0	0.0	-618.4	0.3	2.00	2.00	0.00	
1,400.0	4.00	99.38	1,399.8	-0.8	-613.2	1.1	2.00	2.00	0.00	
1,500.0	6.00	99.38	1,499.5	-2.2	-604.6	2.6	2.00	2.00	0.00	
1,600.0	8.00	99.38	1,598.7	-4.2	-592.6	4.6	2.00	2.00	0.00	
1,700.0	10.00	99.38	1,697.5	-6.8	-577.2	7.2	2.00	2.00	0.00	
1,800.0	12.00	99.38	1,795.6	-9.9	-558.3	10.3	2.00	2.00	0.00	
1,867.7	13.35	99.38	1,861.7	-12.3	-543.7	12.8	2.00	2.00	0.00	
1,900.0	13.35	99.38	1,893.1	-13.5	-536.3	14.0	0.00	0.00	0.00	
2,000.0	13.35	99.38	1,990.4	-17.3	-513.5	17.8	0.00	0.00	0.00	
2,100.0	13.35	99.38	2,087.7	-21.1	-490.7	21.6	0.00	0.00	0.00	
2,200.0	13.35	99.38	2,185.0	-24.8	-468.0	25.4	0.00	0.00	0.00	
2,300.0	13.35	99.38	2,282.3	-28.6	-445.2	29.2	0.00	0.00	0.00	
2,400.0	13.35	99.38	2,379.6	-32.4	-422.4	33.0	0.00	0.00	0.00	
2,500.0	13.35	99.38	2,476.9	-36.1	-399.6	36.8	0.00	0.00	0.00	
2,600.0	13.35	99.38	2,574.2	-39.9	-376.8	40.6	0.00	0.00	0.00	
2,700.0	13.35	99.38	2,671.5	-43.6	-354.0	44.4	0.00	0.00	0.00	
2,800.0	13.35	99.38	2,768.8	-47.4	-331.2	48.2	0.00	0.00	0.00	
2,900.0	13.35	99.38	2,866.1	-51.2	-308.4	52.0	0.00	0.00	0.00	
3,000.0	13.35	99.38	2,963.4	-54.9	-285.6	55.8	0.00	0.00	0.00	
3,100.0	13.35	99.38	3,060.6	-58.7	-262.9	59.6	0.00	0.00	0.00	
3,200.0	13.35	99.38	3,157.9	-62.5	-240.1	63.4	0.00	0.00	0.00	
3,300.0	13.35	99.38	3,255.2	-66.2	-217.3	67.3	0.00	0.00	0.00	
3,400.0	13.35	99.38	3,352.5	-70.0	-194.5	71.1	0.00	0.00	0.00	
3,500.0	13.35	99.38	3,449.8	-73.8	-171.7	74.9	0.00	0.00	0.00	
3,600.0	13.35	99.38	3,547.1	-77.5	-148.9	78.7	0.00	0.00	0.00	
3,700.0	13.35	99.38	3,644.4	-81.3	-126.1	82.5	0.00	0.00	0.00	
3,800.0	13.35	99.38	3,741.7	-85.1	-103.3	86.3	0.00	0.00	0.00	
3,900.0	13.35	99.38	3,839.0	-88.8	-80.5	90.1	0.00	0.00	0.00	
4,000.0	13.35	99.38	3,936.3	-92.6	-57.7	93.9	0.00	0.00	0.00	
4,100.0	13.35	99.38	4,033.6	-96.4	-35.0	97.7	0.00	0.00	0.00	
4,200.0	13.35	99.38	4,130.9	-100.1	-12.2	101.5	0.00	0.00	0.00	
4,300.0	13.35	99.38	4,228.2	-103.9	10.6	105.3	0.00	0.00	0.00	
4,400.0	13.35	99.38	4,325.5	-107.6	33.4	109.1	0.00	0.00	0.00	
4,500.0	13.35	99.38	4,422.8	-111.4	56.2	112.9	0.00	0.00	0.00	
4,600.0	13.35	99.38	4,520.1	-115.2	79.0	116.7	0.00	0.00	0.00	
4,700.0	13.35	99.38	4,617.4	-118.9	101.8	120.5	0.00	0.00	0.00	
4,800.0	13.35	99.38	4,714.7	-122.7	124.6	124.3	0.00	0.00	0.00	
4,900.0	13.35	99.38	4,812.0	-126.5	147.4	128.1	0.00	0.00	0.00	
5,000.0	13.35	99.38	4,909.3	-130.2	170.1	131.9	0.00	0.00	0.00	
5,100.0	13.35	99.38	5,006.6	-134.0	192.9	135.7	0.00	0.00	0.00	
5,200.0	13.35	99.38	5,103.9	-137.8	215.7	139.5	0.00	0.00	0.00	
5,300.0	13.35	99.38	5,201.2	-141.5	238.5	143.3	0.00	0.00	0.00	
5,400.0	13.35	99.38	5,298.5	-145.3	261.3	147.2	0.00	0.00	0.00	
5,500.0	13.35	99.38	5,395.7	-149.1	284.1	151.0	0.00	0.00	0.00	
5,600.0	13.35	99.38	5,493.0	-152.8	306.9	154.8	0.00	0.00	0.00	
5,700.0	13.35	99.38	5,590.3	-156.6	329.7	158.6	0.00	0.00	0.00	
5,800.0	13.35	99.38	5,687.6	-160.4	352.5	162.4	0.00	0.00	0.00	
5,852.1	13.35	99.38	5,738.3	-162.3	364.3	164.4	0.00	0.00	0.00	
5,900.0	12.40	99.38	5,785.0	-164.1	374.9	166.1	2.00	-2.00	0.00	
6,000.0	10.40	99.38	5,883.0	-167.3	394.4	169.4	2.00	-2.00	0.00	

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Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Site JRU DI 7 Pad C
Company:	Long Lead_Well Planning	TVD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Project:	EDDY	MD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Site:	JRU DI 7 Pad C	North Reference:	True
Well:	JRU DI 7 Sawtooth 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	JRU DI 7 Sawtooth 707H		
Design:	JRU DI 7 Sawtooth 707H		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,100.0	8.40	99.38	5,981.7	-169.9	410.5	172.1	2.00	-2.00	0.00
6,200.0	6.40	99.38	6,080.9	-172.0	423.2	174.2	2.00	-2.00	0.00
6,300.0	4.40	99.38	6,180.4	-173.6	432.4	175.7	2.00	-2.00	0.00
6,400.0	2.40	99.38	6,280.2	-174.5	438.3	176.7	2.00	-2.00	0.00
6,500.0	0.40	99.38	6,380.2	-174.9	440.7	177.1	2.00	-2.00	0.00
6,519.8	0.00	360.00	6,400.0	-174.9	440.8	177.1	2.00	-2.00	0.00
9,282.6	0.00	360.00	9,162.8	-174.9	440.8	177.1	0.00	0.00	0.00
9,300.0	1.39	179.90	9,180.2	-175.2	440.8	177.3	8.00	8.00	0.00
9,400.0	9.39	179.90	9,279.7	-184.5	440.8	186.7	8.00	8.00	0.00
9,500.0	17.39	179.90	9,376.9	-207.7	440.8	209.9	8.00	8.00	0.00
9,600.0	25.39	179.90	9,469.9	-244.1	440.9	246.3	8.00	8.00	0.00
9,700.0	33.39	179.90	9,557.0	-293.2	441.0	295.3	8.00	8.00	0.00
9,800.0	41.39	179.90	9,636.4	-353.8	441.1	356.0	8.00	8.00	0.00
9,843.1	44.84	179.90	9,667.8	-383.3	441.1	385.4	8.00	8.00	0.00
FTP 17-1									
9,900.0	49.39	179.90	9,706.5	-425.0	441.2	427.1	8.00	8.00	0.00
10,000.0	57.39	179.90	9,766.1	-505.2	441.3	507.4	8.00	8.00	0.00
10,100.0	65.39	179.90	9,813.9	-592.9	441.5	595.1	8.00	8.00	0.00
10,200.0	73.39	179.90	9,849.1	-686.4	441.6	688.6	8.00	8.00	0.00
10,300.0	81.39	179.90	9,870.9	-783.9	441.8	786.1	8.00	8.00	0.00
10,400.0	89.39	179.90	9,879.0	-883.5	441.9	885.7	8.00	8.00	0.00
10,407.6	90.00	179.90	9,879.0	-891.1	442.0	893.3	8.00	8.00	0.00
10,500.0	90.00	179.90	9,879.0	-983.5	442.1	985.7	0.00	0.00	0.00
10,600.0	90.00	179.90	9,879.0	-1,083.5	442.3	1,085.7	0.00	0.00	0.00
10,700.0	90.00	179.90	9,879.0	-1,183.5	442.4	1,185.7	0.00	0.00	0.00
10,800.0	90.00	179.90	9,879.0	-1,283.5	442.6	1,285.7	0.00	0.00	0.00
10,900.0	90.00	179.90	9,879.0	-1,383.5	442.8	1,385.7	0.00	0.00	0.00
11,000.0	90.00	179.90	9,879.0	-1,483.5	442.9	1,485.7	0.00	0.00	0.00
11,100.0	90.00	179.90	9,879.0	-1,583.5	443.1	1,585.7	0.00	0.00	0.00
11,200.0	90.00	179.90	9,879.0	-1,683.5	443.3	1,685.7	0.00	0.00	0.00
11,300.0	90.00	179.90	9,879.0	-1,783.5	443.5	1,785.7	0.00	0.00	0.00
11,400.0	90.00	179.90	9,879.0	-1,883.5	443.6	1,885.7	0.00	0.00	0.00
11,500.0	90.00	179.90	9,879.0	-1,983.5	443.8	1,985.7	0.00	0.00	0.00
11,600.0	90.00	179.90	9,879.0	-2,083.5	444.0	2,085.7	0.00	0.00	0.00
11,700.0	90.00	179.90	9,879.0	-2,183.5	444.1	2,185.7	0.00	0.00	0.00
11,800.0	90.00	179.90	9,879.0	-2,283.5	444.3	2,285.7	0.00	0.00	0.00
11,900.0	90.00	179.90	9,879.0	-2,383.5	444.5	2,385.7	0.00	0.00	0.00
12,000.0	90.00	179.90	9,879.0	-2,483.5	444.6	2,485.7	0.00	0.00	0.00
12,100.0	90.00	179.90	9,879.0	-2,583.5	444.8	2,585.7	0.00	0.00	0.00
12,200.0	90.00	179.90	9,879.0	-2,683.5	445.0	2,685.7	0.00	0.00	0.00
12,300.0	90.00	179.90	9,879.0	-2,783.5	445.1	2,785.7	0.00	0.00	0.00
12,400.0	90.00	179.90	9,879.0	-2,883.5	445.3	2,885.7	0.00	0.00	0.00
12,500.0	90.00	179.90	9,879.0	-2,983.5	445.5	2,985.7	0.00	0.00	0.00
12,600.0	90.00	179.90	9,879.0	-3,083.5	445.6	3,085.7	0.00	0.00	0.00
12,700.0	90.00	179.90	9,879.0	-3,183.5	445.8	3,185.7	0.00	0.00	0.00
12,800.0	90.00	179.90	9,879.0	-3,283.5	446.0	3,285.7	0.00	0.00	0.00
12,900.0	90.00	179.90	9,879.0	-3,383.5	446.1	3,385.7	0.00	0.00	0.00
13,000.0	90.00	179.90	9,879.0	-3,483.5	446.3	3,485.7	0.00	0.00	0.00
13,100.0	90.00	179.90	9,879.0	-3,583.5	446.5	3,585.7	0.00	0.00	0.00
13,200.0	90.00	179.90	9,879.0	-3,683.5	446.6	3,685.7	0.00	0.00	0.00
13,300.0	90.00	179.90	9,879.0	-3,783.5	446.8	3,785.7	0.00	0.00	0.00
13,400.0	90.00	179.90	9,879.0	-3,883.5	447.0	3,885.7	0.00	0.00	0.00

ExxonMobil

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Site JRU DI 7 Pad C
Company:	Long Lead_Well Planning	TVD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Project:	EDDY	MD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Site:	JRU DI 7 Pad C	North Reference:	True
Well:	JRU DI 7 Sawtooth 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	JRU DI 7 Sawtooth 707H		
Design:	JRU DI 7 Sawtooth 707H		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,500.0	90.00	179.90	9,879.0	-3,983.5	447.1	3,985.7	0.00	0.00	0.00	
13,600.0	90.00	179.90	9,879.0	-4,083.5	447.3	4,085.7	0.00	0.00	0.00	
13,700.0	90.00	179.90	9,879.0	-4,183.5	447.5	4,185.7	0.00	0.00	0.00	
13,800.0	90.00	179.90	9,879.0	-4,283.5	447.6	4,285.7	0.00	0.00	0.00	
13,900.0	90.00	179.90	9,879.0	-4,383.5	447.8	4,385.7	0.00	0.00	0.00	
14,000.0	90.00	179.90	9,879.0	-4,483.5	448.0	4,485.7	0.00	0.00	0.00	
14,100.0	90.00	179.90	9,879.0	-4,583.5	448.1	4,585.7	0.00	0.00	0.00	
14,200.0	90.00	179.90	9,879.0	-4,683.5	448.3	4,685.7	0.00	0.00	0.00	
14,300.0	90.00	179.90	9,879.0	-4,783.5	448.5	4,785.7	0.00	0.00	0.00	
14,400.0	90.00	179.90	9,879.0	-4,883.5	448.7	4,885.7	0.00	0.00	0.00	
14,500.0	90.00	179.90	9,879.0	-4,983.5	448.8	4,985.7	0.00	0.00	0.00	
14,600.0	90.00	179.90	9,879.0	-5,083.5	449.0	5,085.7	0.00	0.00	0.00	
14,700.0	90.00	179.90	9,879.0	-5,183.5	449.2	5,185.7	0.00	0.00	0.00	
14,800.0	90.00	179.90	9,879.0	-5,283.5	449.3	5,285.7	0.00	0.00	0.00	
14,900.0	90.00	179.90	9,879.0	-5,383.5	449.5	5,385.7	0.00	0.00	0.00	
15,000.0	90.00	179.90	9,879.0	-5,483.5	449.7	5,485.7	0.00	0.00	0.00	
15,100.0	90.00	179.90	9,879.0	-5,583.5	449.8	5,585.7	0.00	0.00	0.00	
15,200.0	90.00	179.90	9,879.0	-5,683.5	450.0	5,685.7	0.00	0.00	0.00	
15,300.0	90.00	179.90	9,879.0	-5,783.5	450.2	5,785.7	0.00	0.00	0.00	
15,400.0	90.00	179.90	9,879.0	-5,883.5	450.3	5,885.7	0.00	0.00	0.00	
15,500.0	90.00	179.90	9,879.0	-5,983.5	450.5	5,985.7	0.00	0.00	0.00	
15,600.0	90.00	179.90	9,879.0	-6,083.5	450.7	6,085.7	0.00	0.00	0.00	
15,700.0	90.00	179.90	9,879.0	-6,183.5	450.8	6,185.7	0.00	0.00	0.00	
15,800.0	90.00	179.90	9,879.0	-6,283.5	451.0	6,285.7	0.00	0.00	0.00	
15,900.0	90.00	179.90	9,879.0	-6,383.5	451.2	6,385.7	0.00	0.00	0.00	
16,000.0	90.00	179.90	9,879.0	-6,483.5	451.3	6,485.7	0.00	0.00	0.00	
16,100.0	90.00	179.90	9,879.0	-6,583.5	451.5	6,585.7	0.00	0.00	0.00	
16,200.0	90.00	179.90	9,879.0	-6,683.5	451.7	6,685.7	0.00	0.00	0.00	
16,300.0	90.00	179.90	9,879.0	-6,783.5	451.8	6,785.7	0.00	0.00	0.00	
16,400.0	90.00	179.90	9,879.0	-6,883.5	452.0	6,885.7	0.00	0.00	0.00	
16,500.0	90.00	179.90	9,879.0	-6,983.5	452.2	6,985.7	0.00	0.00	0.00	
16,600.0	90.00	179.90	9,879.0	-7,083.5	452.3	7,085.7	0.00	0.00	0.00	
16,700.0	90.00	179.90	9,879.0	-7,183.5	452.5	7,185.7	0.00	0.00	0.00	
16,800.0	90.00	179.90	9,879.0	-7,283.5	452.7	7,285.7	0.00	0.00	0.00	
16,900.0	90.00	179.90	9,879.0	-7,383.5	452.8	7,385.7	0.00	0.00	0.00	
17,000.0	90.00	179.90	9,879.0	-7,483.5	453.0	7,485.7	0.00	0.00	0.00	
17,100.0	90.00	179.90	9,879.0	-7,583.5	453.2	7,585.7	0.00	0.00	0.00	
17,200.0	90.00	179.90	9,879.0	-7,683.5	453.3	7,685.7	0.00	0.00	0.00	
17,300.0	90.00	179.90	9,879.0	-7,783.5	453.5	7,785.7	0.00	0.00	0.00	
17,400.0	90.00	179.90	9,879.0	-7,883.5	453.7	7,885.7	0.00	0.00	0.00	
17,500.0	90.00	179.90	9,879.0	-7,983.5	453.9	7,985.7	0.00	0.00	0.00	
17,600.0	90.00	179.90	9,879.0	-8,083.5	454.0	8,085.7	0.00	0.00	0.00	
17,700.0	90.00	179.90	9,879.0	-8,183.5	454.2	8,185.7	0.00	0.00	0.00	
17,800.0	90.00	179.90	9,879.0	-8,283.5	454.4	8,285.7	0.00	0.00	0.00	
17,900.0	90.00	179.90	9,879.0	-8,383.5	454.5	8,385.7	0.00	0.00	0.00	
18,000.0	90.00	179.90	9,879.0	-8,483.5	454.7	8,485.7	0.00	0.00	0.00	
18,100.0	90.00	179.90	9,879.0	-8,583.5	454.9	8,585.7	0.00	0.00	0.00	
18,200.0	90.00	179.90	9,879.0	-8,683.5	455.0	8,685.7	0.00	0.00	0.00	
18,300.0	90.00	179.90	9,879.0	-8,783.5	455.2	8,785.7	0.00	0.00	0.00	
18,400.0	90.00	179.90	9,879.0	-8,883.5	455.4	8,885.7	0.00	0.00	0.00	
18,500.0	90.00	179.90	9,879.0	-8,983.5	455.5	8,985.7	0.00	0.00	0.00	
18,600.0	90.00	179.90	9,879.0	-9,083.5	455.7	9,085.7	0.00	0.00	0.00	

ExxonMobil

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Site JRU DI 7 Pad C
Company:	Long Lead_Well Planning	TVD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Project:	EDDY	MD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Site:	JRU DI 7 Pad C	North Reference:	True
Well:	JRU DI 7 Sawtooth 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	JRU DI 7 Sawtooth 707H		
Design:	JRU DI 7 Sawtooth 707H		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,700.0	90.00	179.90	9,879.0	-9,183.5	455.9	9,185.7	0.00	0.00	0.00
18,800.0	90.00	179.90	9,879.0	-9,283.5	456.0	9,285.7	0.00	0.00	0.00
18,900.0	90.00	179.90	9,879.0	-9,383.5	456.2	9,385.7	0.00	0.00	0.00
19,000.0	90.00	179.90	9,879.0	-9,483.5	456.4	9,485.7	0.00	0.00	0.00
19,100.0	90.00	179.90	9,879.0	-9,583.5	456.5	9,585.7	0.00	0.00	0.00
19,200.0	90.00	179.90	9,879.0	-9,683.5	456.7	9,685.7	0.00	0.00	0.00
19,300.0	90.00	179.90	9,879.0	-9,783.5	456.9	9,785.7	0.00	0.00	0.00
19,400.0	90.00	179.90	9,879.0	-9,883.5	457.0	9,885.7	0.00	0.00	0.00
19,500.0	90.00	179.90	9,879.0	-9,983.5	457.2	9,985.7	0.00	0.00	0.00
19,600.0	90.00	179.90	9,879.0	-10,083.5	457.4	10,085.7	0.00	0.00	0.00
19,700.0	90.00	179.90	9,879.0	-10,183.5	457.5	10,185.7	0.00	0.00	0.00
19,800.0	90.00	179.90	9,879.0	-10,283.5	457.7	10,285.7	0.00	0.00	0.00
19,900.0	90.00	179.90	9,879.0	-10,383.5	457.9	10,385.7	0.00	0.00	0.00
20,000.0	90.00	179.90	9,879.0	-10,483.5	458.0	10,485.7	0.00	0.00	0.00
20,100.0	90.00	179.90	9,879.0	-10,583.5	458.2	10,585.7	0.00	0.00	0.00
20,200.0	90.00	179.90	9,879.0	-10,683.5	458.4	10,685.7	0.00	0.00	0.00
20,300.0	90.00	179.90	9,879.0	-10,783.5	458.5	10,785.7	0.00	0.00	0.00
20,400.0	90.00	179.90	9,879.0	-10,883.5	458.7	10,885.7	0.00	0.00	0.00
20,500.0	90.00	179.90	9,879.0	-10,983.5	458.9	10,985.7	0.00	0.00	0.00
20,600.0	90.00	179.90	9,879.0	-11,083.5	459.1	11,085.7	0.00	0.00	0.00
20,700.0	90.00	179.90	9,879.0	-11,183.5	459.2	11,185.7	0.00	0.00	0.00
20,800.0	90.00	179.90	9,879.0	-11,283.5	459.4	11,285.7	0.00	0.00	0.00
20,900.0	90.00	179.90	9,879.0	-11,383.5	459.6	11,385.7	0.00	0.00	0.00
21,000.0	90.00	179.90	9,879.0	-11,483.5	459.7	11,485.7	0.00	0.00	0.00
21,100.0	90.00	179.90	9,879.0	-11,583.5	459.9	11,585.7	0.00	0.00	0.00
21,200.0	90.00	179.90	9,879.0	-11,683.5	460.1	11,685.7	0.00	0.00	0.00
21,300.0	90.00	179.90	9,879.0	-11,783.5	460.2	11,785.7	0.00	0.00	0.00
21,400.0	90.00	179.90	9,879.0	-11,883.5	460.4	11,885.7	0.00	0.00	0.00
21,500.0	90.00	179.90	9,879.0	-11,983.5	460.6	11,985.7	0.00	0.00	0.00
21,600.0	90.00	179.90	9,879.0	-12,083.5	460.7	12,085.7	0.00	0.00	0.00
21,700.0	90.00	179.90	9,879.0	-12,183.5	460.9	12,185.7	0.00	0.00	0.00
21,800.0	90.00	179.90	9,879.0	-12,283.5	461.1	12,285.7	0.00	0.00	0.00
21,900.0	90.00	179.90	9,879.0	-12,383.5	461.2	12,385.7	0.00	0.00	0.00
22,000.0	90.00	179.90	9,879.0	-12,483.5	461.4	12,485.7	0.00	0.00	0.00
22,100.0	90.00	179.90	9,879.0	-12,583.5	461.6	12,585.7	0.00	0.00	0.00
22,200.0	90.00	179.90	9,879.0	-12,683.5	461.7	12,685.7	0.00	0.00	0.00
22,300.0	90.00	179.90	9,879.0	-12,783.5	461.9	12,785.7	0.00	0.00	0.00
22,400.0	90.00	179.90	9,879.0	-12,883.5	462.1	12,885.7	0.00	0.00	0.00
22,459.9	90.00	179.90	9,879.0	-12,943.4	462.2	12,945.6	0.00	0.00	0.00
LTP 17-1									
22,500.0	90.00	179.90	9,879.0	-12,983.5	462.2	12,985.7	0.00	0.00	0.00
22,509.9	90.00	179.90	9,879.0	-12,993.4	462.3	12,995.6	0.00	0.00	0.00
BHL 17-1									

ExxonMobil
Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Site JRU DI 7 Pad C
Company:	Long Lead_Well Planning	TVD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Project:	EDDY	MD Reference:	JRU DI 7 Sawtooth 707H Default @ 3361.0usft
Site:	JRU DI 7 Pad C	North Reference:	True
Well:	JRU DI 7 Sawtooth 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	JRU DI 7 Sawtooth 707H		
Design:	JRU DI 7 Sawtooth 707H		

Design Targets										
Target Name										
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude		Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
BHL 17-1	0.00	0.00	9,879.0	-12,993.4	462.2	474,881.70	661,352.70	32° 18' 16.149 N		103° 48' 39.967 W
- plan hits target center										
- Rectangle (sides W5.0 H5.0 D0.0)										
FTP 17-1	0.00	360.00	9,879.0	-174.9	440.8	487,699.90	661,268.90	32° 20' 23.000 N		103° 48' 40.215 W
- plan misses target center by 296.7usft at 9843.1usft MD (9667.8 TVD, -383.3 N, 441.1 E)										
- Rectangle (sides W5.0 H5.0 D0.0)										
LTP 17-1	0.00	360.00	9,879.0	-12,943.4	462.2	474,931.70	661,352.40	32° 18' 16.644 N		103° 48' 39.967 W
- plan hits target center										
- Rectangle (sides W5.0 H5.0 D0.0)										

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

XTO Energy Inc.
JRU DI 7 Sawtooth FED COM 707H
Projected TD: 22510' MD / 9879' TVD
SHL: 155' FNL & 2050' FEL , Section 6, T23S, R31E
BHL: 2590' FNL & 990' FEL , Section 18, T23S, R31E
EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	291'	Water
Top of Salt	613'	Water
Base of Salt	3757'	Water
Delaware	3964'	Water
Brushy Canyon	6516'	Water/Oil/Gas
Bone Spring	7829'	Water
1st Bone Spring Ss	8860'	Water/Oil/Gas
2nd Bone Spring Ss	9821'	Water/Oil/Gas
Target/Land Curve	9878'	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 @ 588' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3857' 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 9082.6' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22510 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 8582.6 feet) per Potash regulations.

3. Casing Design

Hole Size	MD	TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 588'	571'	13.375	54.5	J-55	BTC	New	2.37	4.35	28.37
12.25	0' – 3857'	3688'	9.625	40	J-55	BTC	New	1.91	2.34	4.08
8.75	0' – 3957'	3788'	7.625	29.7	RY P-110	Flush Joint	New	3.19	3.02	2.07
8.75	3957' – 9082.6'	9502'	7.625	29.7	HC L-80	Flush Joint	New	2.32	3.99	2.67
6.75	0' – 8982.6'	9409'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.38	2.19
6.75	8982.6' - 22510'	9879'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.16	5.67

· 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

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

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

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

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange 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.

4. Cement Program**Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 588**

Lead: 210 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 +/- 3857

Lead: 1600 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 +/- 9082.6**1st Stage**

Optional Lead: 150 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)
 TOC: 3657
 Tail: 230 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 TOC: Brushy Canyon @ 6516
 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: 410 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 (6516') 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, 20 New Semi-Flush, RY P-110 casing to be set at +/- 22510

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 8582.6 feet
 Tail: 950 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9282.6 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 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 2964 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, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping up on the 7.625, 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 week.

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' - 588'	17.5	FW/Native	8.5-9	35-40	NC
588' - 3857'	12.25	Brine	10-10.5	30-32	NC
3857' to 9082.6'	8.75	BDE/OBM or FW/Brine	8.6-9.1	30-32	NC
9082.6' to 22510'	6.75	OBM	10-10.5	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. Cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. 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

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 5137 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.

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

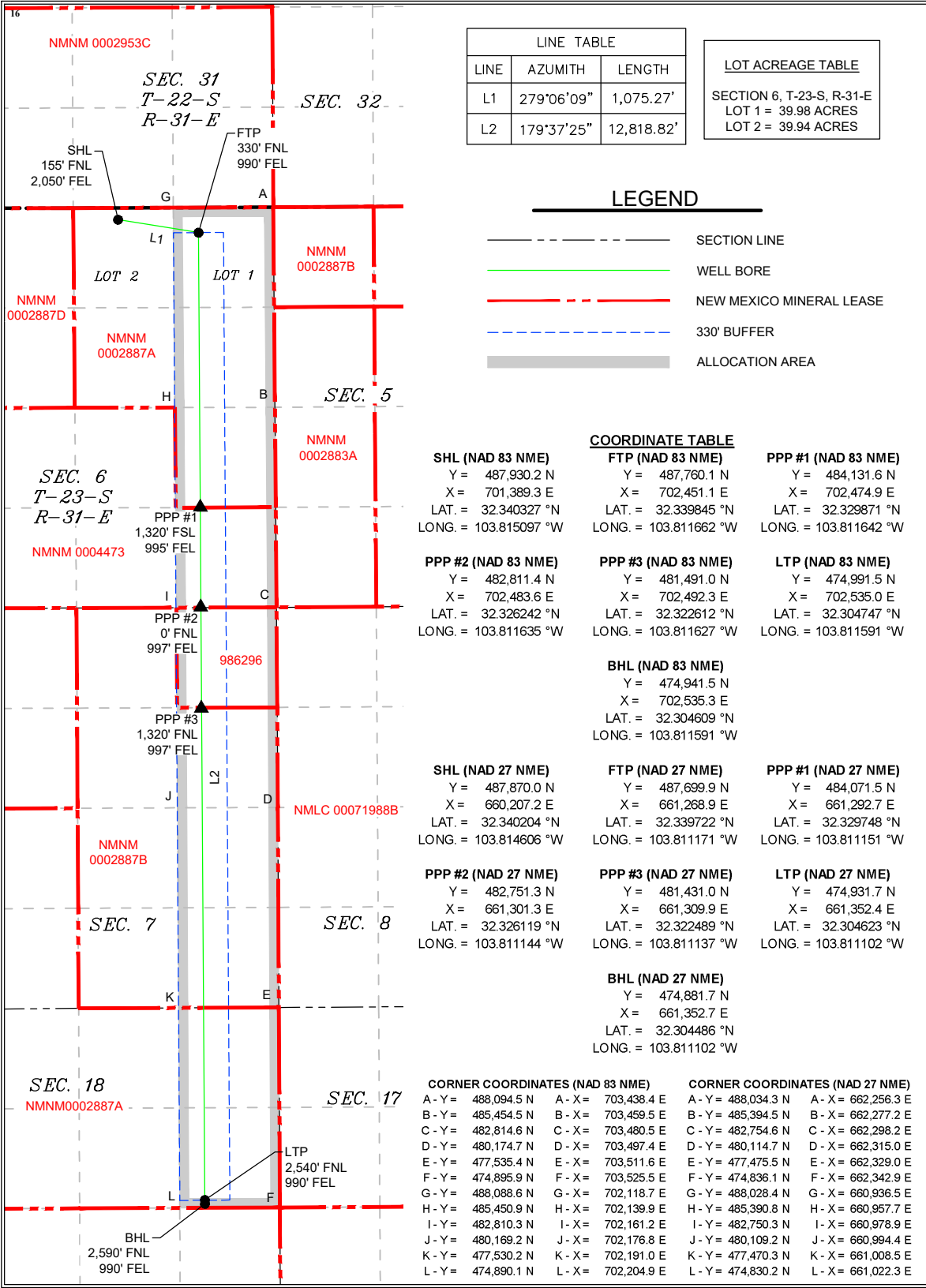
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 54874		² Pool Code 40295		³ Pool Name LOS MEDANOS; BONE SPRING					
⁴ Property Code 333473		⁵ Property Name JRU DI 7 SAWTOOTH						⁶ Well Number 707H	
⁷ OGRID No. 373075		⁸ Operator Name XTO PERMIAN OPERATING, LLC						⁹ Elevation 3,321'	
¹⁰ Surface Location									
UL or lot no. 2	Section 6	Township 23 S	Range 31 E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. H	Section 18	Township 23 S	Range 31 E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County EDDY
¹² Dedicated Acres 399.98		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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



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.

Rusty Klein 4-1-2024
Signature Date

RUSTY KLEIN
Printed Name

ranell.klein@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.

08-02-2023
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP
NEW MEXICO
PROFESSIONAL SURVEYOR
23786

MARK DILLON HARP 23786
Certificate Number

RP 618.013002.06-33

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
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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 351858

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 351858
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	6/11/2024