

Well Name: JAMES RANCH UNIT DI 7  
SAWTOOTH

Well Number: 907H

Lease Number: NMNM02953C

US Well Number: 3001554881

Well Location: T23S / R31E / SEC 6 /  
LOT 2 / 32.340328 / -103.814902

Type of Well: CONVENTIONAL GAS  
WELL

Unit or CA Name: JAMES RANCH UNIT

Operator: XTO PERMIAN OPERATING  
LLC

County or Parish/State: EDDY /  
NM

Allottee or Tribe Name:

Unit or CA Number:  
NMNM70965X

Notice of Intent

Sundry ID: 2785631

Type of Submission: Notice of Intent

Date Sundry Submitted: 04/17/2024

Date proposed operation will begin: 05/15/2024

Type of Action: APD Change

Time Sundry Submitted: 01:36

**Procedure Description:** XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD: SHL, FTP, LTP, BHL, total measured depth and total vertical depth, formation and pool changes. Casing and cement program are changing and are shown in the attached drilling plan. FROM: TO: SHL: 155' FNL & 1990' FEL of Section 6-T23S-R31E 155' FNL & 2020' FEL of Section 6-T23S-R31E FTP: 700' FSL & 990' FEL of Section 31-T22S-R31E 330' FNL & 770' FEL of Section 6-T23S-R31E PPP 1-2: 1320' FSL & 995' FEL of Section 6-T23S-R31E 1314' FSL & 775' FEL of Section 6-T23S-R31E PPP 1-3: 0' FNL & 996' FEL of Section 7-T23S-R31E 0' FNL & 777' FEL of Section 7-T23S-R31E PPP 1-4: 1320' FNL & 996' FEL of Section 7-T23S-R31E 1320' FNL & 777' FEL of Section 7-T23S-R31E LTP: 2540' FNL & 990' FEL of Section 18-T23S-R31E 2540' FNL & 770' FEL of Section 18-T23S-R31E BHL: 2590' FNL & 990' FEL of Section 18-T23S-R31E 2590' FNL & 770' FEL of Section 18-T23S-R31E Total depth will be changing from 25395' MD; 11162' TVD (Wolfcamp) to 23725' MD; 11047' TVD (Bone Spring). Pool will be changing from Los Medanos; Wolfcamp, South to Los Medanos; Bone Spring. ATTACHMENTS: C-102, Drilling Plan, Directional Plan, MBS, Casing Spec Sheets

NOI Attachments

Procedure Description

- Wedge\_461\_\_5.500\_0.361\_P110\_CY\_01292024\_20240417133514.pdf
- Wedge\_441\_\_5.500\_0.361\_P110\_CY\_12142023\_20240417133514.pdf
- Talon\_HTQ\_RD\_5.5000\_20.0000\_0.3610\_\_P110\_RY\_20240417133514.pdf
- Freedom\_5.5000\_20.0000\_0.3610\_\_P110\_RY\_20240417133440.pdf
- 4\_String\_Slimhole\_SDT\_3301\_1\_20240417133431.pdf

Received by OCD: 6/7/2024 6:38:29 AMPage 2 of 24

|   |  |                                   |
|---|--|-----------------------------------|
| Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH | Well Location: T23S / R31E / SEC 6 / LOT 2 / 32.340328 / -103.814902 | County or Parish/State: EDDY / NM |
| Well Number: 907H                         | Type of Well: CONVENTIONAL GAS WELL                                  | Allottee or Tribe Name:           |
| Lease Number: NMNM02953C                  | Unit or CA Name: JAMES RANCH UNIT                                    | Unit or CA Number: NMNM70965X     |
| US Well Number: 3001554881                | Operator: XTO PERMIAN OPERATING LLC                                  |                                   |

JRU\_DI\_7\_Sawtooth\_907H\_Directional\_Plan\_20240417133418.pdf

JRU\_DI7\_Sawtooth\_907H\_Drilling\_Plan\_20240417133404.pdf

JRU\_DI\_7\_SAWTOOTH\_907H\_C\_102\_signed\_4\_3\_2024\_20240417132449.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 09:14 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.***

|   |                                   |   |
|---|-----------------------------------|---|
| <b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>  |                                   | 5. Lease Serial No.                         |
| 1. Type of Well<br><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"/> Subsequent Report   | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice                                    | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction     | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|  | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       |   |
|  | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back            | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or 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 25395 MD; 11162 TVD (Wolfcamp) to 23725 MD; 11047 TVD (Bone Spring). Pool will be changing from Los Medanos; Wolfcamp, South to Los Medanos; Bone Spring.

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

### Location of Well

0. SHL: LOT 2 / 155 FNL / 1990 FEL / TWSP: 23S / RANGE: 31E / SECTION: 6 / LAT: 32.340328 / LONG: -103.814902 ( 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: 11047 feet, MD: 18200 feet )

PPP: SESE / 1320 FNL / 995 FEL / TWSP: 23S / RANGE: 31E / SECTION: 6 / LAT: 32.329817 / LONG: -103.81164 ( TVD: 11047 feet, MD: 16900 feet )

PPP: SENE / 1320 FNL / 996 FEL / TWSP: 23S / RANGE: 31E / SECTION: 7 / LAT: 32.322612 / LONG: -103.811626 ( TVD: 11047 feet, MD: 19600 feet )

PPP: SESE / 700 FSL / 990 FEL / TWSP: 22S / RANGE: 31E / SECTION: 31 / LAT: 32.342677 / LONG: -103.811666 ( TVD: 11047 feet, MD: 11400 feet )

BHL: SENE / 2590 FNL / 990 FEL / TWSP: 23S / RANGE: 31E / SECTION: 18 / LAT: 32.304609 / LONG: -103.811591 ( TVD: 11047 feet, MD: 23725 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.   | 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        | 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 %        | Operation Limit Torques |              |
| Threads per inch     | 3.40      | Compression Strength       | 641 x1000 lb | Operating Torque        | 39,000 ft-lb |
| Connection OD Option | Regular   | Max. Allowable Bending     | 92 °/100 ft  | Yield Torque            | 46,000 ft-lb |
|                      |           | External Pressure Capacity | 11,100 psi   | Buck-On                 |              |
|                      |           | Coupling Face Load         | 290,000 lb   | 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](http://www.tenaris.com)  
For further information on concepts indicated in this datasheet, download the Datasheet Manual from [www.tenaris.com](http://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](http://www.tenaris.com)  
For further information on concepts indicated in this datasheet, download the Datasheet Manual from [www.tenaris.com](http://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

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| 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.

Legal Notice

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U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ<sup>®</sup>

11/8/2023 1:08:50 PM



| MECHANICAL PROPERTIES            | Pipe    | USS-FREEDOM HTQ <sup>®</sup> |            | -- |
|----------------------------------|---------|------------------------------|------------|----|
| Minimum Yield Strength           | 110,000 | --                           | psi        | -- |
| Maximum Yield Strength           | 125,000 | --                           | psi        | -- |
| Minimum Tensile Strength         | 125,000 | --                           | psi        | -- |
| DIMENSIONS                       | Pipe    | USS-FREEDOM HTQ <sup>®</sup> |            | -- |
| 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 <sup>®</sup> |            | -- |
| Critical Area                    | 5.828   | 5.828                        | sq. in.    | -- |
| Joint Efficiency                 | --      | 100.0                        | %          | -- |
| PERFORMANCE                      | Pipe    | USS-FREEDOM HTQ <sup>®</sup> |            | -- |
| 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 <sup>®</sup> |            | -- |
| 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

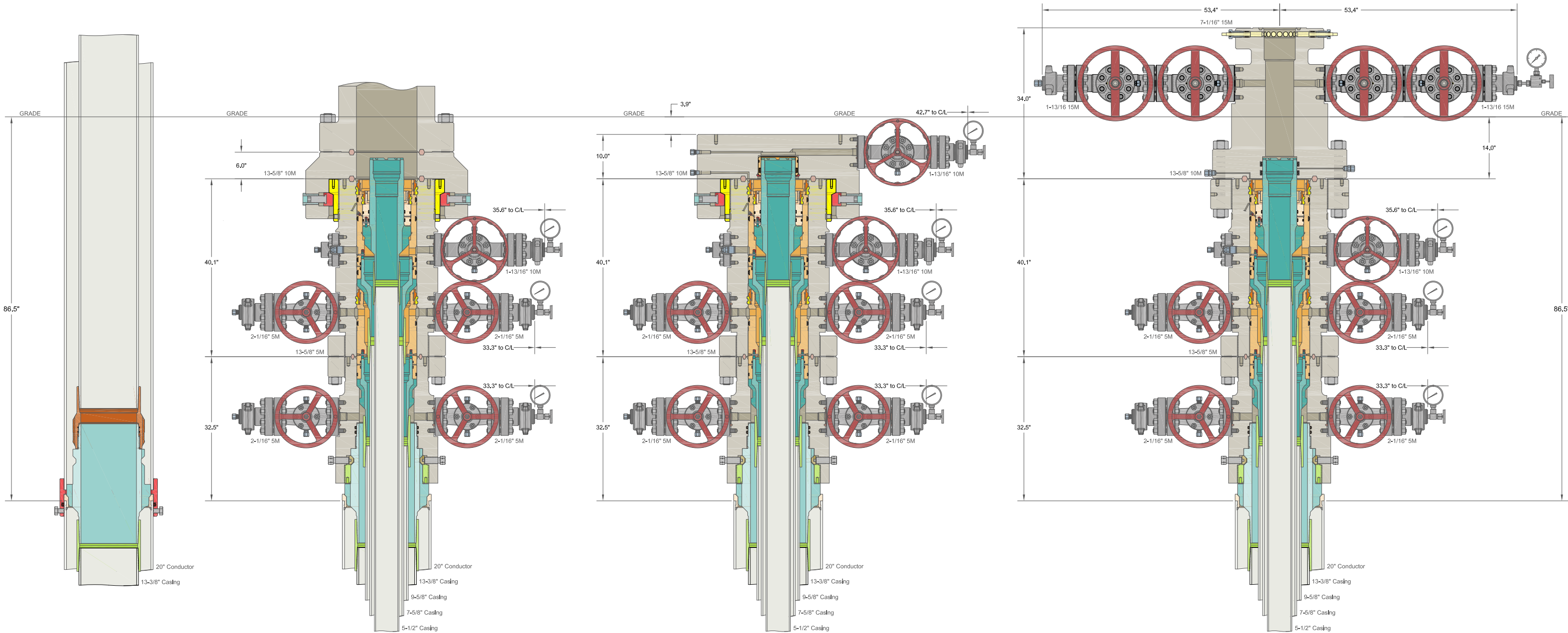
1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (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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Spring, Texas 77380

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



|  |  |                                  |                |
|--|--|----------------------------------|----------------|
| CACTUS WELLHEAD LLC  |  | XTO ENERGY INC<br>DELAWARE BASIN |                |
| (20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO<br>With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head<br>And Drilling & Skid Configurations |  | DRAWN<br>APPRV                   | VJK<br>31MAR22 |
|  |  | DRAWING NO. SDT-3301             |                |

## **Long Lead\_Well Planning**

**EDDY**

**JRU DI 7 Pad C**

**JRU DI 7 Sawtooth 907H - Slot JRU DI 7 Sawtooth 907H**

**JRU DI 7 Sawtooth 907H**

**Plan: JRU DI 7 Sawtooth 907H**

## **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 907H Default @ 3361.0usft |
| Project:  | EDDY                    | MD Reference:                | JRU DI 7 Sawtooth 907H Default @ 3361.0usft |
| Site:     | JRU DI 7 Pad C          | North Reference:             | True  |
| Well:     | JRU DI 7 Sawtooth 907H  | Survey Calculation Method:   | Minimum Curvature                           |
| Wellbore: | JRU DI 7 Sawtooth 907H  |                              |   |
| Design:   | JRU DI 7 Sawtooth 907H  |                              |   |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| 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 907H - Slot JRU DI 7 Sawtooth 907H |             |                     |
| Well Position        | +N/-S  | 0.3 usft    | Northing:           |
|                      | +E/-W  | -590.2 usft | Easting:            |
| Position Uncertainty |  | 0.0 usft    | Wellhead Elevation: |
| Grid Convergence:    |  | 0.28 °      |                     |
|                      |  |             | Latitude:           |
|                      |  |             | Longitude:          |
|                      |  |             | Ground Level:       |

|           |                        |             |                     |
|-----------|------------------------|-------------|---------------------|
| Wellbore  | JRU DI 7 Sawtooth 907H |             |                     |
| Magnetics | Model Name             | Sample Date | Declination (°)     |
|           | IGRF2020               | 8/29/2023   | 6.41                |
|           |                        |             | Dip Angle (°)       |
|           |                        |             | 59.90               |
|           |                        |             | Field Strength (nT) |
|           |                        |             | 47,308.99798977     |

|                   |                         |              |               |
|-------------------|-------------------------|--------------|---------------|
| Design            | JRU DI 7 Sawtooth 907H  |              |               |
| Audit Notes:      |                         |              |               |
| Version:          | Phase:                  | PLAN         | Tie On Depth: |
|                   |                         |              | 0.0           |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft)  |
|                   | 0.0                     | 0.3          | -590.2        |
|                   |                         |              | Direction (°) |
|                   |                         |              | 179.90        |

|                          |                 |                   |                               |  |
|--------------------------|-----------------|-------------------|-------------------------------|--|
| Plan Survey Tool Program | Date            | 8/29/2023         |                               |  |
| Depth From (usft)        | Depth To (usft) | Survey (Wellbore) | Tool Name                     | Remarks  |
| 1                        | 0.0             | 23,724.7          | JRU DI 7 Sawtooth 907H (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 907H Default @ 3361.0usft |
| Project:  | EDDY                    | MD Reference:                | JRU DI 7 Sawtooth 907H Default @ 3361.0usft |
| Site:     | JRU DI 7 Pad C          | North Reference:             | True  |
| Well:     | JRU DI 7 Sawtooth 907H  | Survey Calculation Method:   | Minimum Curvature                           |
| Wellbore: | JRU DI 7 Sawtooth 907H  |                              |   |
| Design:   | JRU DI 7 Sawtooth 907H  |                              |   |

| 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          | -590.2       | 0.00                    | 0.00                   | 0.00                  | 0.00    |          |
| 1,200.0               | 0.00            | 0.00        | 1,200.0               | 0.3          | -590.2       | 0.00                    | 0.00                   | 0.00                  | 0.00    |          |
| 2,002.2               | 16.04           | 97.98       | 1,991.8               | -15.2        | -479.7       | 2.00                    | 2.00                   | 0.00                  | 97.98   |          |
| 5,765.3               | 16.04           | 97.98       | 5,608.2               | -159.5       | 550.3        | 0.00                    | 0.00                   | 0.00                  | 0.00    |          |
| 6,567.5               | 0.00            | 0.00        | 6,400.0               | -175.0       | 660.8        | 2.00                    | -2.00                  | 0.00                  | 180.00  |          |
| 10,497.5              | 0.00            | 0.00        | 10,330.0              | -175.0       | 660.8        | 0.00                    | 0.00                   | 0.00                  | 0.00    |          |
| 11,622.4              | 90.00           | 179.90      | 11,046.2              | -891.2       | 662.0        | 8.00                    | 8.00                   | 15.99                 | 179.90  |          |
| 23,674.7              | 90.00           | 179.90      | 11,047.0              | -12,943.5    | 682.2        | 0.00                    | 0.00                   | 0.00                  | 0.00    | LTP 20-1 |
| 23,724.7              | 90.00           | 179.90      | 11,047.0              | -12,993.5    | 682.3        | 0.00                    | 0.00                   | 0.00                  | 0.00    | BHL 20-1 |

# ExxonMobil

## Planning Report

|                  |                         |                                     |   |
|------------------|-------------------------|-------------------------------------|---|
| <b>Database:</b> | LMRKPROD3               | <b>Local Co-ordinate Reference:</b> | Site JRU DI 7 Pad C                         |
| <b>Company:</b>  | Long Lead_Well Planning | <b>TVD Reference:</b>               | JRU DI 7 Sawtooth 907H Default @ 3361.0usft |
| <b>Project:</b>  | EDDY                    | <b>MD Reference:</b>                | JRU DI 7 Sawtooth 907H Default @ 3361.0usft |
| <b>Site:</b>     | JRU DI 7 Pad C          | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | JRU DI 7 Sawtooth 907H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | JRU DI 7 Sawtooth 907H  |                                     |   |
| <b>Design:</b>   | JRU DI 7 Sawtooth 907H  |                                     |   |

| 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          | -590.2       | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,200.0               | 0.00            | 0.00        | 1,200.0               | 0.3          | -590.2       | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,300.0               | 2.00            | 97.98       | 1,300.0               | 0.0          | -588.5       | 0.2                     | 2.00                    | 2.00                   | 0.00                  |  |
| 1,400.0               | 4.00            | 97.98       | 1,399.8               | -0.7         | -583.3       | 1.0                     | 2.00                    | 2.00                   | 0.00                  |  |
| 1,500.0               | 6.00            | 97.98       | 1,499.5               | -1.9         | -574.7       | 2.2                     | 2.00                    | 2.00                   | 0.00                  |  |
| 1,600.0               | 8.00            | 97.98       | 1,598.7               | -3.6         | -562.6       | 3.9                     | 2.00                    | 2.00                   | 0.00                  |  |
| 1,700.0               | 10.00           | 97.98       | 1,697.5               | -5.8         | -547.1       | 6.1                     | 2.00                    | 2.00                   | 0.00                  |  |
| 1,800.0               | 12.00           | 97.98       | 1,795.6               | -8.4         | -528.2       | 8.8                     | 2.00                    | 2.00                   | 0.00                  |  |
| 1,900.0               | 14.00           | 97.98       | 1,893.1               | -11.5        | -505.9       | 12.0                    | 2.00                    | 2.00                   | 0.00                  |  |
| 2,000.0               | 16.00           | 97.98       | 1,989.6               | -15.1        | -480.3       | 15.6                    | 2.00                    | 2.00                   | 0.00                  |  |
| 2,002.2               | 16.04           | 97.98       | 1,991.8               | -15.2        | -479.7       | 15.7                    | 2.00                    | 2.00                   | 0.00                  |  |
| 2,100.0               | 16.04           | 97.98       | 2,085.7               | -19.0        | -452.9       | 19.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,200.0               | 16.04           | 97.98       | 2,181.9               | -22.8        | -425.6       | 23.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,300.0               | 16.04           | 97.98       | 2,278.0               | -26.6        | -398.2       | 27.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,400.0               | 16.04           | 97.98       | 2,374.1               | -30.5        | -370.8       | 31.1                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,500.0               | 16.04           | 97.98       | 2,470.2               | -34.3        | -343.5       | 35.0                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,600.0               | 16.04           | 97.98       | 2,566.3               | -38.1        | -316.1       | 38.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,700.0               | 16.04           | 97.98       | 2,662.4               | -42.0        | -288.7       | 42.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,800.0               | 16.04           | 97.98       | 2,758.5               | -45.8        | -261.3       | 46.7                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,900.0               | 16.04           | 97.98       | 2,854.6               | -49.6        | -234.0       | 50.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,000.0               | 16.04           | 97.98       | 2,950.7               | -53.5        | -206.6       | 54.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,100.0               | 16.04           | 97.98       | 3,046.8               | -57.3        | -179.2       | 58.3                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,200.0               | 16.04           | 97.98       | 3,142.9               | -61.2        | -151.9       | 62.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,300.0               | 16.04           | 97.98       | 3,239.0               | -65.0        | -124.5       | 66.1                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,400.0               | 16.04           | 97.98       | 3,335.1               | -68.8        | -97.1        | 70.0                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,500.0               | 16.04           | 97.98       | 3,431.2               | -72.7        | -69.8        | 73.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,600.0               | 16.04           | 97.98       | 3,527.3               | -76.5        | -42.4        | 77.7                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,700.0               | 16.04           | 97.98       | 3,623.4               | -80.3        | -15.0        | 81.6                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,800.0               | 16.04           | 97.98       | 3,719.5               | -84.2        | 12.4         | 85.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,900.0               | 16.04           | 97.98       | 3,815.6               | -88.0        | 39.7         | 89.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,000.0               | 16.04           | 97.98       | 3,911.7               | -91.8        | 67.1         | 93.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,100.0               | 16.04           | 97.98       | 4,007.8               | -95.7        | 94.5         | 97.1                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,200.0               | 16.04           | 97.98       | 4,104.0               | -99.5        | 121.8        | 101.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,300.0               | 16.04           | 97.98       | 4,200.1               | -103.3       | 149.2        | 104.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,400.0               | 16.04           | 97.98       | 4,296.2               | -107.2       | 176.6        | 108.8                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,500.0               | 16.04           | 97.98       | 4,392.3               | -111.0       | 203.9        | 112.7                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,600.0               | 16.04           | 97.98       | 4,488.4               | -114.8       | 231.3        | 116.5                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,700.0               | 16.04           | 97.98       | 4,584.5               | -118.7       | 258.7        | 120.4                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,800.0               | 16.04           | 97.98       | 4,680.6               | -122.5       | 286.1        | 124.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,900.0               | 16.04           | 97.98       | 4,776.7               | -126.3       | 313.4        | 128.2                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,000.0               | 16.04           | 97.98       | 4,872.8               | -130.2       | 340.8        | 132.1                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,100.0               | 16.04           | 97.98       | 4,968.9               | -134.0       | 368.2        | 136.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,200.0               | 16.04           | 97.98       | 5,065.0               | -137.9       | 395.5        | 139.8                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,300.0               | 16.04           | 97.98       | 5,161.1               | -141.7       | 422.9        | 143.7                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,400.0               | 16.04           | 97.98       | 5,257.2               | -145.5       | 450.3        | 147.6                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,500.0               | 16.04           | 97.98       | 5,353.3               | -149.4       | 477.7        | 151.5                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,600.0               | 16.04           | 97.98       | 5,449.4               | -153.2       | 505.0        | 155.4                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,700.0               | 16.04           | 97.98       | 5,545.5               | -157.0       | 532.4        | 159.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,765.3               | 16.04           | 97.98       | 5,608.2               | -159.5       | 550.3        | 161.8                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,800.0               | 15.35           | 97.98       | 5,641.7               | -160.8       | 559.6        | 163.1                   | 2.00                    | -2.00                  | 0.00                  |  |
| 5,900.0               | 13.35           | 97.98       | 5,738.6               | -164.3       | 584.1        | 166.6                   | 2.00                    | -2.00                  | 0.00                  |  |
| 6,000.0               | 11.35           | 97.98       | 5,836.2               | -167.2       | 605.3        | 169.6                   | 2.00                    | -2.00                  | 0.00                  |  |

## ExxonMobil

## Planning Report

|                  |                         |                                     |   |
|------------------|-------------------------|-------------------------------------|---|
| <b>Database:</b> | LMRKPROD3               | <b>Local Co-ordinate Reference:</b> | Site JRU DI 7 Pad C                         |
| <b>Company:</b>  | Long Lead_Well Planning | <b>TVD Reference:</b>               | JRU DI 7 Sawtooth 907H Default @ 3361.0usft |
| <b>Project:</b>  | EDDY                    | <b>MD Reference:</b>                | JRU DI 7 Sawtooth 907H Default @ 3361.0usft |
| <b>Site:</b>     | JRU DI 7 Pad C          | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | JRU DI 7 Sawtooth 907H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | JRU DI 7 Sawtooth 907H  |                                     |   |
| <b>Design:</b>   | JRU DI 7 Sawtooth 907H  |                                     |   |

| 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               | 9.35            | 97.98       | 5,934.6               | -169.7       | 623.1        | 172.1                   | 2.00                    | -2.00                  | 0.00                  |
| 6,200.0               | 7.35            | 97.98       | 6,033.5               | -171.7       | 637.5        | 174.2                   | 2.00                    | -2.00                  | 0.00                  |
| 6,300.0               | 5.35            | 97.98       | 6,132.9               | -173.3       | 648.4        | 175.7                   | 2.00                    | -2.00                  | 0.00                  |
| 6,400.0               | 3.35            | 97.98       | 6,232.6               | -174.3       | 655.9        | 176.8                   | 2.00                    | -2.00                  | 0.00                  |
| 6,500.0               | 1.35            | 97.98       | 6,332.5               | -174.9       | 660.0        | 177.4                   | 2.00                    | -2.00                  | 0.00                  |
| 6,567.5               | 0.00            | 0.00        | 6,400.0               | -175.0       | 660.8        | 177.5                   | 2.00                    | -2.00                  | 0.00                  |
| 10,497.5              | 0.00            | 0.00        | 10,330.0              | -175.0       | 660.8        | 177.5                   | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 0.20            | 179.90      | 10,332.5              | -175.0       | 660.8        | 177.5                   | 8.00                    | 8.00                   | 0.00                  |
| 10,600.0              | 8.20            | 179.90      | 10,432.2              | -182.3       | 660.8        | 184.8                   | 8.00                    | 8.00                   | 0.00                  |
| 10,700.0              | 16.20           | 179.90      | 10,529.9              | -203.5       | 660.8        | 205.9                   | 8.00                    | 8.00                   | 0.00                  |
| 10,800.0              | 24.20           | 179.90      | 10,623.6              | -238.0       | 660.9        | 240.4                   | 8.00                    | 8.00                   | 0.00                  |
| 10,900.0              | 32.20           | 179.90      | 10,711.7              | -285.2       | 660.9        | 287.6                   | 8.00                    | 8.00                   | 0.00                  |
| 11,000.0              | 40.20           | 179.90      | 10,792.3              | -344.2       | 661.0        | 346.7                   | 8.00                    | 8.00                   | 0.00                  |
| 11,064.7              | 45.38           | 179.90      | 10,839.7              | -388.1       | 661.1        | 390.6                   | 8.00                    | 8.00                   | 0.00                  |
| FTP 20-1              |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,100.0              | 48.20           | 179.90      | 10,863.9              | -413.9       | 661.2        | 416.3                   | 8.00                    | 8.00                   | 0.00                  |
| 11,200.0              | 56.20           | 179.90      | 10,925.2              | -492.8       | 661.3        | 495.3                   | 8.00                    | 8.00                   | 0.00                  |
| 11,300.0              | 64.20           | 179.90      | 10,974.8              | -579.5       | 661.4        | 582.0                   | 8.00                    | 8.00                   | 0.00                  |
| 11,400.0              | 72.20           | 179.90      | 11,011.9              | -672.3       | 661.6        | 674.8                   | 8.00                    | 8.00                   | 0.00                  |
| 11,500.0              | 80.20           | 179.90      | 11,035.8              | -769.4       | 661.8        | 771.8                   | 8.00                    | 8.00                   | 0.00                  |
| 11,600.0              | 88.20           | 179.90      | 11,045.8              | -868.8       | 661.9        | 871.2                   | 8.00                    | 8.00                   | 0.00                  |
| 11,622.4              | 90.00           | 179.90      | 11,046.2              | -891.2       | 662.0        | 893.6                   | 8.00                    | 8.00                   | 0.00                  |
| 11,700.0              | 90.00           | 179.90      | 11,046.2              | -968.8       | 662.1        | 971.2                   | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0              | 90.00           | 179.90      | 11,046.2              | -1,068.8     | 662.3        | 1,071.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0              | 90.00           | 179.90      | 11,046.2              | -1,168.8     | 662.4        | 1,171.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0              | 90.00           | 179.90      | 11,046.2              | -1,268.8     | 662.6        | 1,271.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0              | 90.00           | 179.90      | 11,046.2              | -1,368.8     | 662.8        | 1,371.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0              | 90.00           | 179.90      | 11,046.2              | -1,468.8     | 662.9        | 1,471.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0              | 90.00           | 179.90      | 11,046.2              | -1,568.8     | 663.1        | 1,571.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0              | 90.00           | 179.90      | 11,046.2              | -1,668.8     | 663.3        | 1,671.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0              | 90.00           | 179.90      | 11,046.3              | -1,768.8     | 663.4        | 1,771.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0              | 90.00           | 179.90      | 11,046.3              | -1,868.8     | 663.6        | 1,871.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0              | 90.00           | 179.90      | 11,046.3              | -1,968.8     | 663.8        | 1,971.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0              | 90.00           | 179.90      | 11,046.3              | -2,068.8     | 663.9        | 2,071.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0              | 90.00           | 179.90      | 11,046.3              | -2,168.8     | 664.1        | 2,171.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0              | 90.00           | 179.90      | 11,046.3              | -2,268.8     | 664.3        | 2,271.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0              | 90.00           | 179.90      | 11,046.3              | -2,368.8     | 664.4        | 2,371.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0              | 90.00           | 179.90      | 11,046.3              | -2,468.8     | 664.6        | 2,471.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0              | 90.00           | 179.90      | 11,046.3              | -2,568.8     | 664.8        | 2,571.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 179.90      | 11,046.3              | -2,668.8     | 664.9        | 2,671.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 179.90      | 11,046.3              | -2,768.8     | 665.1        | 2,771.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 179.90      | 11,046.3              | -2,868.8     | 665.3        | 2,871.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 179.90      | 11,046.3              | -2,968.8     | 665.4        | 2,971.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 179.90      | 11,046.3              | -3,068.8     | 665.6        | 3,071.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 179.90      | 11,046.3              | -3,168.8     | 665.8        | 3,171.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 179.90      | 11,046.4              | -3,268.8     | 665.9        | 3,271.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 179.90      | 11,046.4              | -3,368.8     | 666.1        | 3,371.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 179.90      | 11,046.4              | -3,468.8     | 666.3        | 3,471.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 179.90      | 11,046.4              | -3,568.8     | 666.4        | 3,571.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 179.90      | 11,046.4              | -3,668.8     | 666.6        | 3,671.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 179.90      | 11,046.4              | -3,768.8     | 666.8        | 3,771.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 179.90      | 11,046.4              | -3,868.8     | 667.0        | 3,871.2                 | 0.00                    | 0.00                   | 0.00                  |



## ExxonMobil

## Planning Report

|                  |                         |                                     |   |
|------------------|-------------------------|-------------------------------------|---|
| <b>Database:</b> | LMRKPROD3               | <b>Local Co-ordinate Reference:</b> | Site JRU DI 7 Pad C                         |
| <b>Company:</b>  | Long Lead_Well Planning | <b>TVD Reference:</b>               | JRU DI 7 Sawtooth 907H Default @ 3361.0usft |
| <b>Project:</b>  | EDDY                    | <b>MD Reference:</b>                | JRU DI 7 Sawtooth 907H Default @ 3361.0usft |
| <b>Site:</b>     | JRU DI 7 Pad C          | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | JRU DI 7 Sawtooth 907H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | JRU DI 7 Sawtooth 907H  |                                     |   |
| <b>Design:</b>   | JRU DI 7 Sawtooth 907H  |                                     |   |

| 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) |
| 14,700.0              | 90.00           | 179.90      | 11,046.4              | -3,968.7     | 667.1        | 3,971.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 179.90      | 11,046.4              | -4,068.7     | 667.3        | 4,071.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 179.90      | 11,046.4              | -4,168.7     | 667.5        | 4,171.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 179.90      | 11,046.4              | -4,268.7     | 667.6        | 4,271.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.00           | 179.90      | 11,046.4              | -4,368.7     | 667.8        | 4,371.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.00           | 179.90      | 11,046.4              | -4,468.7     | 668.0        | 4,471.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 179.90      | 11,046.4              | -4,568.7     | 668.1        | 4,571.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 179.90      | 11,046.4              | -4,668.7     | 668.3        | 4,671.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 179.90      | 11,046.5              | -4,768.7     | 668.5        | 4,771.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 179.90      | 11,046.5              | -4,868.7     | 668.6        | 4,871.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 179.90      | 11,046.5              | -4,968.7     | 668.8        | 4,971.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 179.90      | 11,046.5              | -5,068.7     | 669.0        | 5,071.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 179.90      | 11,046.5              | -5,168.7     | 669.1        | 5,171.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.00           | 179.90      | 11,046.5              | -5,268.7     | 669.3        | 5,271.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.00           | 179.90      | 11,046.5              | -5,368.7     | 669.5        | 5,371.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.00           | 179.90      | 11,046.5              | -5,468.7     | 669.6        | 5,471.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.00           | 179.90      | 11,046.5              | -5,568.7     | 669.8        | 5,571.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.00           | 179.90      | 11,046.5              | -5,668.7     | 670.0        | 5,671.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.00           | 179.90      | 11,046.5              | -5,768.7     | 670.1        | 5,771.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.00           | 179.90      | 11,046.5              | -5,868.7     | 670.3        | 5,871.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.00           | 179.90      | 11,046.5              | -5,968.7     | 670.5        | 5,971.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.00           | 179.90      | 11,046.5              | -6,068.7     | 670.6        | 6,071.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.00           | 179.90      | 11,046.5              | -6,168.7     | 670.8        | 6,171.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.00           | 179.90      | 11,046.6              | -6,268.7     | 671.0        | 6,271.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.00           | 179.90      | 11,046.6              | -6,368.7     | 671.1        | 6,371.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.00           | 179.90      | 11,046.6              | -6,468.7     | 671.3        | 6,471.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.00           | 179.90      | 11,046.6              | -6,568.7     | 671.5        | 6,571.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0              | 90.00           | 179.90      | 11,046.6              | -6,668.7     | 671.6        | 6,671.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,500.0              | 90.00           | 179.90      | 11,046.6              | -6,768.7     | 671.8        | 6,771.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,600.0              | 90.00           | 179.90      | 11,046.6              | -6,868.7     | 672.0        | 6,871.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,700.0              | 90.00           | 179.90      | 11,046.6              | -6,968.7     | 672.2        | 6,971.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,800.0              | 90.00           | 179.90      | 11,046.6              | -7,068.7     | 672.3        | 7,071.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,900.0              | 90.00           | 179.90      | 11,046.6              | -7,168.7     | 672.5        | 7,171.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,000.0              | 90.00           | 179.90      | 11,046.6              | -7,268.7     | 672.7        | 7,271.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,100.0              | 90.00           | 179.90      | 11,046.6              | -7,368.7     | 672.8        | 7,371.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,200.0              | 90.00           | 179.90      | 11,046.6              | -7,468.7     | 673.0        | 7,471.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,300.0              | 90.00           | 179.90      | 11,046.6              | -7,568.7     | 673.2        | 7,571.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,400.0              | 90.00           | 179.90      | 11,046.6              | -7,668.7     | 673.3        | 7,671.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,500.0              | 90.00           | 179.90      | 11,046.7              | -7,768.7     | 673.5        | 7,771.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,600.0              | 90.00           | 179.90      | 11,046.7              | -7,868.7     | 673.7        | 7,871.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,700.0              | 90.00           | 179.90      | 11,046.7              | -7,968.7     | 673.8        | 7,971.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,800.0              | 90.00           | 179.90      | 11,046.7              | -8,068.7     | 674.0        | 8,071.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,900.0              | 90.00           | 179.90      | 11,046.7              | -8,168.7     | 674.2        | 8,171.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,000.0              | 90.00           | 179.90      | 11,046.7              | -8,268.7     | 674.3        | 8,271.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,100.0              | 90.00           | 179.90      | 11,046.7              | -8,368.7     | 674.5        | 8,371.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,200.0              | 90.00           | 179.90      | 11,046.7              | -8,468.7     | 674.7        | 8,471.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,300.0              | 90.00           | 179.90      | 11,046.7              | -8,568.7     | 674.8        | 8,571.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,400.0              | 90.00           | 179.90      | 11,046.7              | -8,668.7     | 675.0        | 8,671.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,500.0              | 90.00           | 179.90      | 11,046.7              | -8,768.7     | 675.2        | 8,771.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,600.0              | 90.00           | 179.90      | 11,046.7              | -8,868.7     | 675.3        | 8,871.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,700.0              | 90.00           | 179.90      | 11,046.7              | -8,968.7     | 675.5        | 8,971.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,800.0              | 90.00           | 179.90      | 11,046.7              | -9,068.7     | 675.7        | 9,071.2                 | 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 907H Default @ 3361.0usft |
| Project:  | EDDY                    | MD Reference:                | JRU DI 7 Sawtooth 907H Default @ 3361.0usft |
| Site:     | JRU DI 7 Pad C          | North Reference:             | True  |
| Well:     | JRU DI 7 Sawtooth 907H  | Survey Calculation Method:   | Minimum Curvature                           |
| Wellbore: | JRU DI 7 Sawtooth 907H  |                              |   |
| Design:   | JRU DI 7 Sawtooth 907H  |                              |   |

| 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) |
| 19,900.0              | 90.00           | 179.90      | 11,046.7              | -9,168.7     | 675.8        | 9,171.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,000.0              | 90.00           | 179.90      | 11,046.8              | -9,268.7     | 676.0        | 9,271.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,100.0              | 90.00           | 179.90      | 11,046.8              | -9,368.7     | 676.2        | 9,371.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,200.0              | 90.00           | 179.90      | 11,046.8              | -9,468.7     | 676.3        | 9,471.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,300.0              | 90.00           | 179.90      | 11,046.8              | -9,568.7     | 676.5        | 9,571.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,400.0              | 90.00           | 179.90      | 11,046.8              | -9,668.7     | 676.7        | 9,671.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,500.0              | 90.00           | 179.90      | 11,046.8              | -9,768.7     | 676.8        | 9,771.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,600.0              | 90.00           | 179.90      | 11,046.8              | -9,868.7     | 677.0        | 9,871.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,700.0              | 90.00           | 179.90      | 11,046.8              | -9,968.7     | 677.2        | 9,971.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,800.0              | 90.00           | 179.90      | 11,046.8              | -10,068.7    | 677.4        | 10,071.2                | 0.00                    | 0.00                   | 0.00                  |
| 20,900.0              | 90.00           | 179.90      | 11,046.8              | -10,168.7    | 677.5        | 10,171.2                | 0.00                    | 0.00                   | 0.00                  |
| 21,000.0              | 90.00           | 179.90      | 11,046.8              | -10,268.7    | 677.7        | 10,271.2                | 0.00                    | 0.00                   | 0.00                  |
| 21,100.0              | 90.00           | 179.90      | 11,046.8              | -10,368.7    | 677.9        | 10,371.2                | 0.00                    | 0.00                   | 0.00                  |
| 21,200.0              | 90.00           | 179.90      | 11,046.8              | -10,468.7    | 678.0        | 10,471.2                | 0.00                    | 0.00                   | 0.00                  |
| 21,300.0              | 90.00           | 179.90      | 11,046.8              | -10,568.7    | 678.2        | 10,571.2                | 0.00                    | 0.00                   | 0.00                  |
| 21,400.0              | 90.00           | 179.90      | 11,046.8              | -10,668.7    | 678.4        | 10,671.2                | 0.00                    | 0.00                   | 0.00                  |
| 21,500.0              | 90.00           | 179.90      | 11,046.9              | -10,768.7    | 678.5        | 10,771.2                | 0.00                    | 0.00                   | 0.00                  |
| 21,600.0              | 90.00           | 179.90      | 11,046.9              | -10,868.7    | 678.7        | 10,871.2                | 0.00                    | 0.00                   | 0.00                  |
| 21,700.0              | 90.00           | 179.90      | 11,046.9              | -10,968.7    | 678.9        | 10,971.2                | 0.00                    | 0.00                   | 0.00                  |
| 21,800.0              | 90.00           | 179.90      | 11,046.9              | -11,068.7    | 679.0        | 11,071.2                | 0.00                    | 0.00                   | 0.00                  |
| 21,900.0              | 90.00           | 179.90      | 11,046.9              | -11,168.7    | 679.2        | 11,171.2                | 0.00                    | 0.00                   | 0.00                  |
| 22,000.0              | 90.00           | 179.90      | 11,046.9              | -11,268.7    | 679.4        | 11,271.2                | 0.00                    | 0.00                   | 0.00                  |
| 22,100.0              | 90.00           | 179.90      | 11,046.9              | -11,368.7    | 679.5        | 11,371.2                | 0.00                    | 0.00                   | 0.00                  |
| 22,200.0              | 90.00           | 179.90      | 11,046.9              | -11,468.7    | 679.7        | 11,471.2                | 0.00                    | 0.00                   | 0.00                  |
| 22,300.0              | 90.00           | 179.90      | 11,046.9              | -11,568.7    | 679.9        | 11,571.2                | 0.00                    | 0.00                   | 0.00                  |
| 22,400.0              | 90.00           | 179.90      | 11,046.9              | -11,668.7    | 680.0        | 11,671.2                | 0.00                    | 0.00                   | 0.00                  |
| 22,500.0              | 90.00           | 179.90      | 11,046.9              | -11,768.7    | 680.2        | 11,771.2                | 0.00                    | 0.00                   | 0.00                  |
| 22,600.0              | 90.00           | 179.90      | 11,046.9              | -11,868.7    | 680.4        | 11,871.2                | 0.00                    | 0.00                   | 0.00                  |
| 22,700.0              | 90.00           | 179.90      | 11,046.9              | -11,968.7    | 680.5        | 11,971.2                | 0.00                    | 0.00                   | 0.00                  |
| 22,800.0              | 90.00           | 179.90      | 11,046.9              | -12,068.7    | 680.7        | 12,071.2                | 0.00                    | 0.00                   | 0.00                  |
| 22,900.0              | 90.00           | 179.90      | 11,046.9              | -12,168.7    | 680.9        | 12,171.2                | 0.00                    | 0.00                   | 0.00                  |
| 23,000.0              | 90.00           | 179.90      | 11,047.0              | -12,268.7    | 681.0        | 12,271.2                | 0.00                    | 0.00                   | 0.00                  |
| 23,100.0              | 90.00           | 179.90      | 11,047.0              | -12,368.7    | 681.2        | 12,371.2                | 0.00                    | 0.00                   | 0.00                  |
| 23,200.0              | 90.00           | 179.90      | 11,047.0              | -12,468.7    | 681.4        | 12,471.2                | 0.00                    | 0.00                   | 0.00                  |
| 23,300.0              | 90.00           | 179.90      | 11,047.0              | -12,568.7    | 681.5        | 12,571.2                | 0.00                    | 0.00                   | 0.00                  |
| 23,400.0              | 90.00           | 179.90      | 11,047.0              | -12,668.7    | 681.7        | 12,671.2                | 0.00                    | 0.00                   | 0.00                  |
| 23,500.0              | 90.00           | 179.90      | 11,047.0              | -12,768.7    | 681.9        | 12,771.2                | 0.00                    | 0.00                   | 0.00                  |
| 23,600.0              | 90.00           | 179.90      | 11,047.0              | -12,868.7    | 682.0        | 12,871.2                | 0.00                    | 0.00                   | 0.00                  |
| 23,674.7              | 90.00           | 179.90      | 11,047.0              | -12,943.5    | 682.2        | 12,945.9                | 0.00                    | 0.00                   | 0.00                  |
| LTP 20-1              |                 |             |                       |              |              |                         |                         |                        |                       |
| 23,700.0              | 90.00           | 179.90      | 11,047.0              | -12,968.7    | 682.2        | 12,971.2                | 0.00                    | 0.00                   | 0.00                  |
| 23,724.7              | 90.00           | 179.90      | 11,047.0              | -12,993.5    | 682.3        | 12,995.9                | 0.00                    | 0.00                   | 0.00                  |
| BHL 20-1              |                 |             |                       |              |              |                         |                         |                        |                       |

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 907H Default @ 3361.0usft |
| Project:  | EDDY                    | MD Reference:                | JRU DI 7 Sawtooth 907H Default @ 3361.0usft |
| Site:     | JRU DI 7 Pad C          | North Reference:             | True  |
| Well:     | JRU DI 7 Sawtooth 907H  | Survey Calculation Method:   | Minimum Curvature                           |
| Wellbore: | JRU DI 7 Sawtooth 907H  |                              |   |
| Design:   | JRU DI 7 Sawtooth 907H  |                              |   |

| 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)     |                  |                   |
| FTP 20-1  |  | 0.00      | 0.00     | 11,047.0 | -175.0    | 660.8  | 487,700.90 | 661,488.90 | 32° 20' 22.999 N | 103° 48' 37.651 W |
| - plan misses target center by 297.3usft at 11064.7usft MD (10839.7 TVD, -388.1 N, 661.1 E) |  |           |          |          |           |        |            |            |                  |                   |
| - Rectangle (sides W5.0 H5.0 D0.0)  |  |           |          |          |           |        |            |            |                  |                   |
| LTP 20-1  |  | 0.00      | 360.00   | 11,047.0 | -12,943.5 | 682.2  | 474,932.70 | 661,572.40 | 32° 18' 16.643 N | 103° 48' 37.404 W |
| - plan hits target center   |  |           |          |          |           |        |            |            |                  |                   |
| - Rectangle (sides W5.0 H5.0 D0.0)  |  |           |          |          |           |        |            |            |                  |                   |
| BHL 20-1  |  | 0.00      | 0.00     | 11,047.0 | -12,993.5 | 682.2  | 474,882.70 | 661,572.70 | 32° 18' 16.149 N | 103° 48' 37.403 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 907H  
SHL: 155' FNL & 2020' FEL , Section 6, T23S, R31E  
BHL: 2590' FNL & 770' 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            | 290'             | Water         |
| Top of Salt        | 612'             | Water         |
| Base of Salt       | 3756'            | Water         |
| Delaware           | 3963'            | Water         |
| Brushy Canyon      | 6515'            | Water/Oil/Gas |
| Bone Spring        | 7828'            | Water         |
| 1st Bone Spring Ss | 8859'            | Water/Oil/Gas |
| 2nd Bone Spring Ss | 9820'            | Water/Oil/Gas |
| 3rd Bone Spring Sh | 10242'           | Water/Oil/Gas |
| Target/Land Curve  | 11047'           | 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 @ 587' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3856' 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 10297' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23725 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9797 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' – 587'       | 571'   | 13.375 | 54.5   | J-55     | BTC          | New      | 2.37     | 4.36        | 28.41      |
| 12.25     | 0' – 3856'      | 3688'  | 9.625  | 40     | J-55     | BTC          | New      | 1.69     | 2.34        | 4.08       |
| 8.75      | 0' – 3956'      | 3788'  | 7.625  | 29.7   | RY P-110 | Flush Joint  | New      | 2.83     | 3.02        | 1.82       |
| 8.75      | 3956' – 10297'  | 9502'  | 7.625  | 29.7   | HC L-80  | Flush Joint  | New      | 2.06     | 3.52        | 2.16       |
| 6.75      | 0' – 10197'     | 9409'  | 5.5    | 20     | RY P-110 | Semi-Premium | New      | 1.05     | 2.09        | 2.02       |
| 6.75      | 10197' - 23725' | 11047' | 5.5    | 20     | RY P-110 | Semi-Flush   | New      | 1.05     | 1.91        | 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 +/- 587**

Lead: 210 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft<sup>3</sup>/sx, 10.13 gal/sx water)  
 Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
 Top of Cement: Surface  
 Compressives: 12-hr = 250 psi 24 hr = 500 psi

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

**1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3856**

Lead: 1600 sxs Class C (mixed at 12.9 ppg, 1.39 ft<sup>3</sup>/sx, 10.13 gal/sx water)  
 Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
 Top of Cement: Surface  
 Compressives: 12-hr = 900 psi 24 hr = 1500 psi

**2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 10297**1st Stage

Optional Lead: 150 sxs Class C (mixed at 10.5 ppg, 2.77 ft<sup>3</sup>/sx, 15.59 gal/sx water)  
 TOC: 3656  
 Tail: 350 sxs Class C (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
 TOC: Brushy Canyon @ 6515  
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft<sup>3</sup>/sx, 9.61 gal/sx water)  
 Tail: 410 sxs Class C (mixed at 14.8 ppg, 1.33 ft<sup>3</sup>/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 (6515') 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 +/- 23725**

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft<sup>3</sup>/sx, 15.00 gal/sx water) Top of Cement: 9797 feet  
 Tail: 950 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft<sup>3</sup>/sx, 8.38 gal/sx water) Top of Cement: 10497 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 3347 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 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<br>(ppg) | Viscosity<br>(sec/qt) | Fluid Loss<br>(cc) |
|------------------|-----------|------------------------|-------------|-----------------------|--------------------|
| 0' - 587'        | 17.5      | FW/Native              | 8.5-9       | 35-40                 | NC                 |
| 587' - 3856'     | 12.25     | Brine                  | 10-10.5     | 30-32                 | NC                 |
| 3856' to 10297'  | 8.75      | BDE/OBM or<br>FW/Brine | 8.6-9.1     | 30-32                 | NC                 |
| 10297' to 23725' | 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. 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 175 to 195 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 5802 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

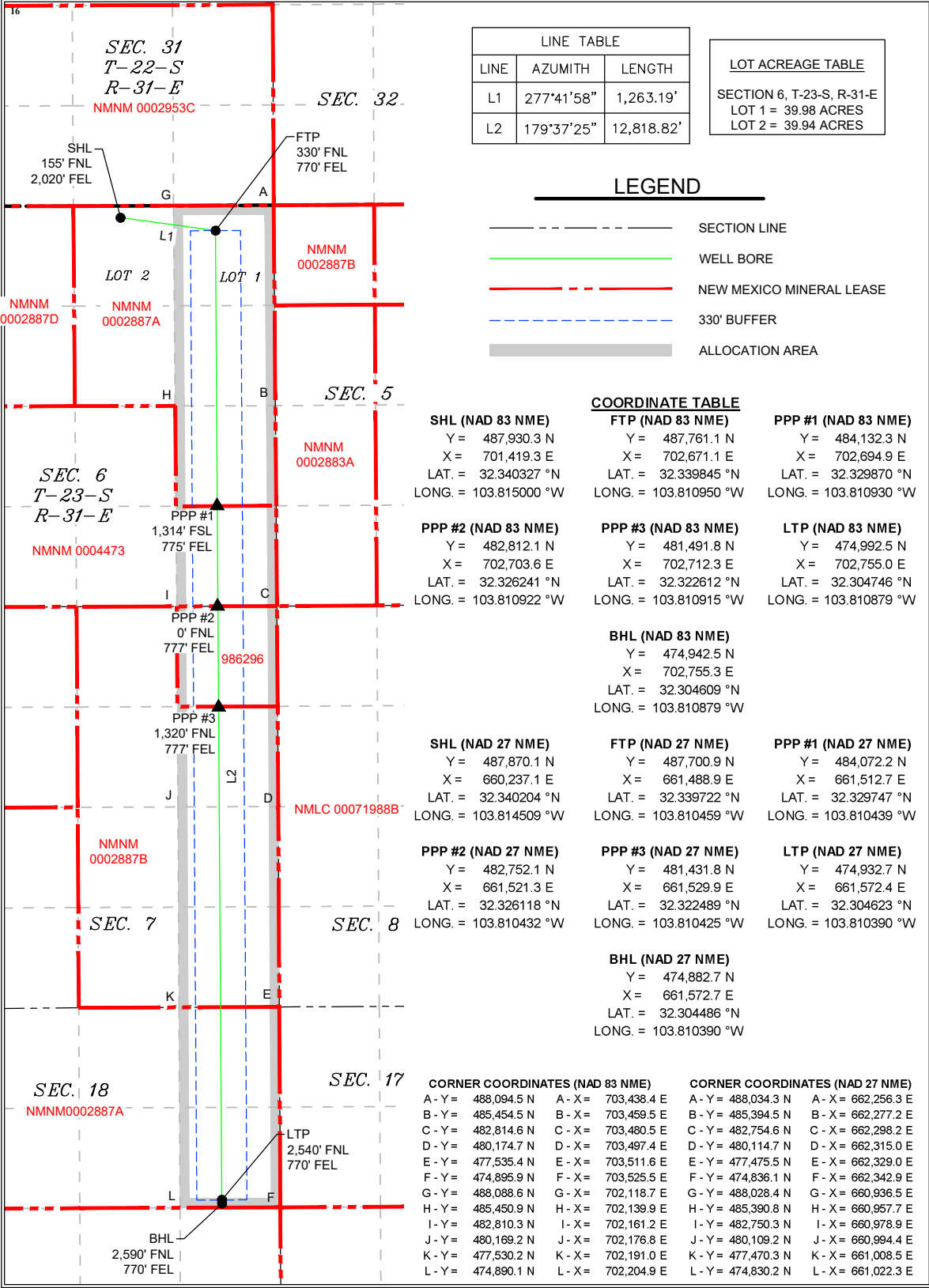
Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|  |           |   |             |   |               |                         |               |   |             |
|--|-----------|---|-------------|---|---------------|-------------------------|---------------|---|-------------|
| <sup>1</sup> API Number<br><b>30-015- 54881</b>              |           | <sup>2</sup> Pool Code<br><b>40295</b>                          |             | <sup>3</sup> Pool Name<br><b>LOS MEDANOS; BONE SPRING</b> |               |                         |               |   |             |
| <sup>4</sup> Property Code<br><b>333473</b>                  |           | <sup>5</sup> Property Name<br><b>JRU DI 7 SAWTOOTH</b>          |             |   |               |                         |               | <sup>6</sup> Well Number<br><b>907H</b> |             |
| <sup>7</sup> OGRID No.<br><b>373075</b>                      |           | <sup>8</sup> Operator Name<br><b>XTO PERMIAN OPERATING, LLC</b> |             |   |               |                         |               | <sup>9</sup> Elevation<br><b>3,320'</b> |             |
| <sup>10</sup> Surface Location                               |           |   |             |   |               |                         |               |   |             |
| UL or lot no.  | Section   | Township  | Range       | Lot Idn   | Feet from the | North/South line        | Feet from the | East/West line                          | County      |
| <b>2</b>   | <b>6</b>  | <b>23 S</b>   | <b>31 E</b> |   | <b>155</b>    | <b>NORTH</b>            | <b>2,020</b>  | <b>EAST</b>                             | <b>EDDY</b> |
| <sup>11</sup> Bottom Hole Location If Different From Surface |           |   |             |   |               |                         |               |   |             |
| UL or lot no.  | Section   | Township  | Range       | Lot Idn   | Feet from the | North/South line        | Feet from the | East/West line                          | County      |
| <b>H</b>   | <b>18</b> | <b>23 S</b>   | <b>31 E</b> |   | <b>2,590</b>  | <b>NORTH</b>            | <b>770</b>    | <b>EAST</b>                             | <b>EDDY</b> |
| <sup>12</sup> Dedicated Acres<br><b>399.98</b>               |           | <sup>13</sup> Joint or Infill                                   |             | <sup>14</sup> Consolidation Code                          |               | <sup>15</sup> 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.



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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 351859

CONDITIONS

|  |  |
|--|--|
| Operator:<br>XTO PERMIAN OPERATING LLC.<br>6401 HOLIDAY HILL ROAD<br>MIDLAND, TX 79707 | OGRID:<br>373075                                     |
|  | Action Number:<br>351859                             |
|  | Action Type:<br>[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      |