

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: ND 19 FEDERAL SWD	Well Location: T24S / R30E / SEC 19 / NENE / 32.2089615 / -103.9145203	County or Parish/State: EDDY / NM
Well Number: 1	Type of Well: INJECTION - ENHANCED RECOVERY	Allottee or Tribe Name:
Lease Number: NMNM02860	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001539713	Well Status: Water Disposal Well	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2765133

Type of Submission: Notice of Intent

Type of Action: Workover Operations

Date Sundry Submitted: 12/08/2023

Time Sundry Submitted: 07:44

Date proposed operation will begin: 02/08/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to commence workover operations on the above mentioned well. Please find attached procedure, current WBD, and proposed WBD.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Nash_Draw_19_Federal_1_SWD_WO_Procedure_20231208074342.pdf

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NENE / 32.2089615 / -103.9145203County or Parish/State: EDDY /
NM

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Unit or CA Name:

Unit or CA Number:

US Well Number: 3001539713

Well Status: Water Disposal Well

Operator: XTO PERMIAN
OPERATING LLC

Conditions of Approval

Specialist Review

Workover_or_Vertical_Deepen_COA_20240110151659.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: KRISTEN HOUSTON

Signed on: DEC 08, 2023 07:43 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: KRISTEN.HOUSTON@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: JONATHON W SHEPARD

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345972

BLM POC Email Address: jshepard@blm.gov

Disposition: Approved

Disposition Date: 01/10/2024

OBJECTIVE: Repair tubing/casing/packer and return well on injection

MASIP: 921 psi **MASP:** 1000 psi **Class B** (300-1000 psi) **BOP Required**

WO NOTES:

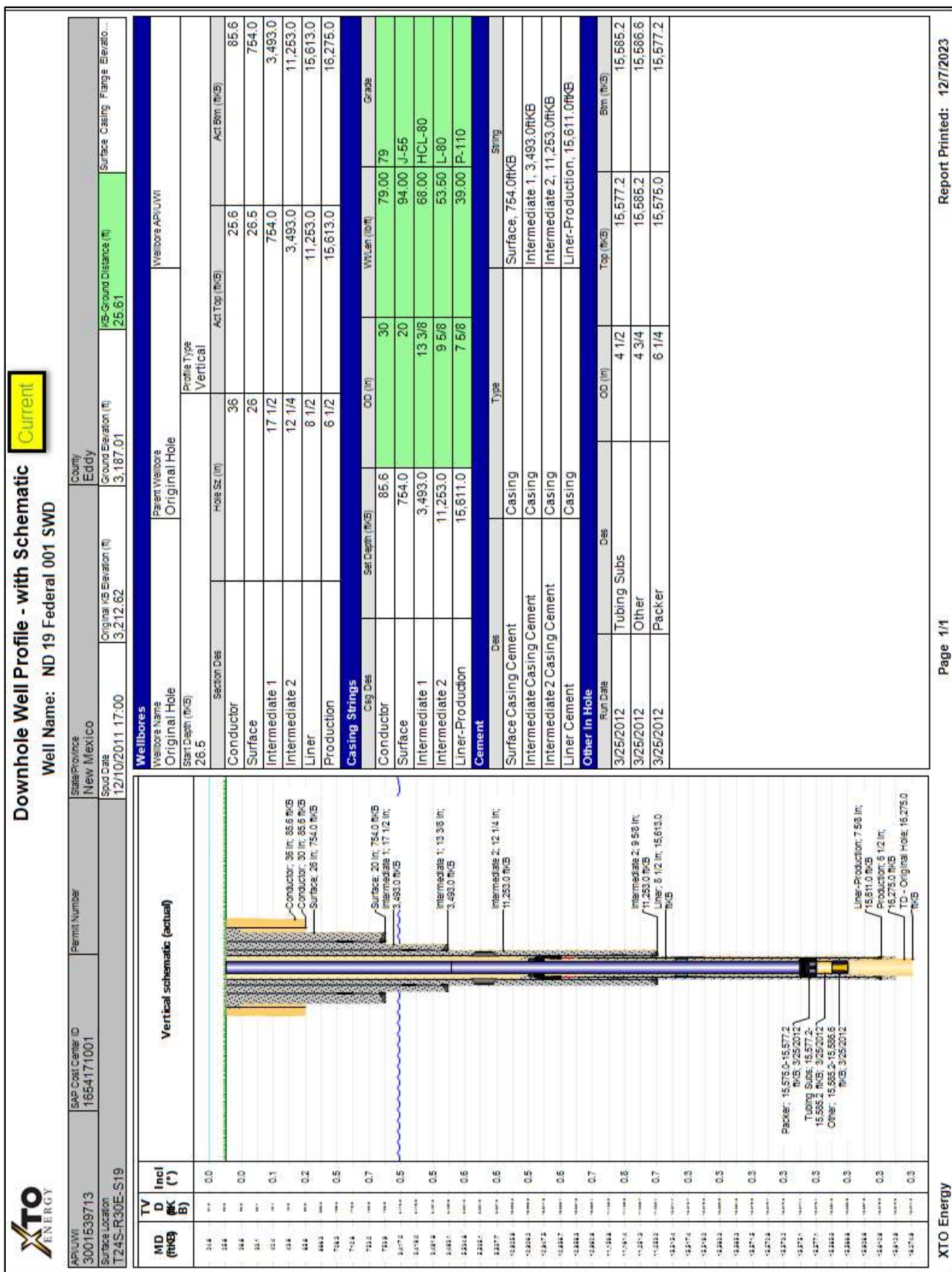
- Tubing and casing have 557 psi and 921 psi and with fluid level expected to be at the surface
- Tubing pressure is expected to be 360 psi with 9.15 PPG produced water and 0 psi with 10 PPG KWF 10 PPG KWF will result 330 psi over-balance of estimated reservoir pressure of 7787 psi
- Packer was set at 15,575' (36' above Production CSG shoes) with reference to KB-GL being 25.6'
- Proposed the same size tubing design - 4-1/2" 13.5# BTC TK15XT with KC Coupling
- New packer BHA will be required. Plan to pull the existing packer if operation going according to plan
- Existing tubing will be laid down and scrap, unless visual inspection indicated good quality

PROCEDURE:

1. MIRU WO rig and support equipment
2. Bleed any casing gas and monitor the rate of pressure buildup
3. Flush tubing with 300 BBL of 10 PPG KW
 - 233 BBL tbg capacity + 47 BBL csg capacity + Excess
 - Increase flush volume if sufficient return seen on casing
4. MIRU WLU. RIH CCL+GR and tubing perforator. Shoot holes above packer
 - Record tubing and casing pressure immediately before and after perforating
 - Should GR not able to clear tubing to packer, pump 5000 Gallon 15% inhibited acid and spotting the acid across the packer for at least 15 minutes before flushing 1.25 tubing volume.
5. Flush the casing with 10 PPG KWF. Monitor pressure buildup
 - Tubing X Casing Annulus Capacity – 664 BBL + 25% Excess = 800 BBLS
6. ND injection tree
 - Inspect tubing hanger thread condition to determine whether a spear will be needed. Take photos for documentation
 - NOTE – There is on-going effort to determine the tubing specs at the time this procedure is written. Consult with Production Engineer for latest and ensure lifting sub is compatible with Tubing Hanger spec.
7. NU 5K Class B BOPs with VBR for 3-1/2" to 4-1/2" and Annular. Test according to the Completion and Well Work Standard Operating Procedures
8. Pick up and conduct 40 pts over-pull over string weight. Relax over-pull after 15 minutes pull test
 - Tubing string air weight is **207 Klbs**, BW with **10 ppg fluid is 175 Klbs**.
 - Ensure rig floor and location are cleared and personnel take proper cover while conduction the tubing pull test

- 40pts overpull at surface is approximately 70% of 15.5# L80 pipe (Top 3,700') & 66% of 12.75# L80 pipe (Pull weight is reduced by 58Klbs at crossover between 15.5# and 12.75# pipe)
 - Tubing was set with 50 Klbs compression (Pick up and drop down to attempt checking the initial weight of ~117.5K lbs - Do not trust this figure with certainty)
 - NOTE: It is highly recommended to have contingency plans of using casing spear due the likelihood of encountering bad tubing hanger threads
9. Pick up with 1-4 pts over-pull, rotate 8-10 round to release from packer. Gradually making step increase on over-pull until successful releasing from packer (225Klbs max).
- NOTE: Line scale registered 180 Klbs with 12.5 Klbs block weight when RIH (167.5 Klbs string weight. The latch seal rotated out at 183 Klbs when installed). However, buoyancy weight has been higher base on recent experience
 - If unable to release from packer, RU WLU. Make GR and tubing free point (and possibly stuck pipe log). RIH CCL with radial cutting tool to cut pipe body just above packer (Further guidance to be provided and be based on free-point and CCL). Ensure the **tubing in tension** when making cut
10. TOH & LD 4.5' tubing string. Send tubing string to scrap/inspection per procurement instruction
- Visually inspect pins for IPC damage while TOO. Take photos for documentation
 - Visually inspect tubing for any scale. If scale is found, contact ChampionX reps for sampling and discuss with Ops Engr to determine the need of injectivity test
 - Inspect elastomer seals of anchor latch for signs of damage when surface
 - NOTE: If pipe cutting performed, and depend on how high above the packer the cut is make, decision may make to RU overshot and 4-1/2" basket grapple with jar to attempt to rotate and release the latch seal assembly from packer before attempting to pluck out the packer BHA per the next step
11. If operation goes according to plan, MU and RIH packer retriever assembly to 3-1/2" work string. POOH the packer BHA
12. If re-stimulation is required (At discretionary of Prod Engr and OS), MIRU acid unit, pressure test line, establish injection rate down casing. Bullhead 20,000 Gallons of emulsified blend acid of 90%/10% of 15% HCl and Xylene at highest rate possible (~10 BPM) while keeping treating pressure below 2000 psi
- Decision will be made based on injectivity degradation review and deposit in tubing
13. Displace acid with 1200 BBL treated packer KWF
- 971 BBL casing capacity +~25% excess
14. MIRU WLU and Pressure accordingly to well class. RIH GR for 7-5/8" casing. POOH
15. RIH with the followings and set at packer at 15,765 (46' above CSG Shoe)
- 6.25" Dual bore Permapak Packer **for 7-5/8" 39# P-110 (or equivalent)**
 - ~6' x 4.5" BTC 13.5# pup jt
 - 4.5" BTC box x Pin R Niple w/ 3.688" Profile w/ 3.625" NoGo
 - 4.5" Wireline Reentry Guide w/ Bust disk

- **NOTE: Current packer set 15,575 ft-MD, NMOCD requires packer set within 100' of openhole which starts at 15,611 ft-MD. Attempt to set tailpipe of new packer ~1' above old packer top.**
16. Pressure test casing to 1500 psi
 - If test failed, TIH 7-5/8" Service Packer to pressure test packer and 7-5/8" casing 1500 psi. Pick up 9-5/8" service packer if necessary to determine leak point
 - If failure is determined in casing or liner top, evaluation will be done to either perform a cement squeeze or suspend the operation
 17. TIH attached Baker design latch assembly 4.5" tubing and latch into packer. **ENSURE TUBOSCOPE REP IS ON SITE WHILE TIH NEW PIPE**
 - Tubing Specs: 4-1/2" 13.5# P110 BTC w/ TK 15XT coating and KC Coupling
 - There is possibility that the rig may not be able to release from packer once latched-on. Be sure to keep careful tally of pipe. Pickup and slack off as the tubing close to packer. Displace well with packer fluid before tagging and use pup joints should be considered when approaching packer depth
 18. Treated KWF will be used for packer fluid. Allow well to stabilize before latching into packer before spacing out and latch on packer
 - Land tubing with 50 pts compression
 - Fill TCA to full if needed
 19. NU tree. Pressure test void to rated working pressure and trees to 4500 psi
 20. Perform preliminary MIT by pressure testing the TCA to 500 psi for 30 minutes w/ 1000# chart recorder
 - Email/Text chart picture to Tom Lai, Pat Wisener, Daniel Carney, and Clint Pinson for review
 - Add chart picture to Wellview Attachment section
 - Deliver physical chart to Danny Thompson or Clint Pinson to be handed over to Frank Fuentes
 - **NOTE: If new packer assembly is run, PT tubing to 1500 psi and monitoring casing annulus for 30 minutes before rupturing disc**
 21. RDMO and turn over well to SWD Foreman (Frank Fuentes)
 - **NOTE: Frank Fuentes will notify NMOCD of MIT at least 24 hrs before conducting an official MIT. The well will be returned on injection after obtaining necessary regulatory notifications and approvals.**



Vertical schematic (actual)



Vertical schematic (actual)

Conductor: 36 in, 85.6 ft/B
 Surface: 26 in, 754.0 ft/B
 Intermediate 1: 17 1/2 in, 3,493.0 ft/B
 Intermediate 2: 12 1/4 in, 11,253.0 ft/B
 Liner-Production: 8 1/2 in, 15,613.0 ft/B
 Packer: 15,575.0 ft/B
 Original Hole: 16,275.0 ft/B



Schematic

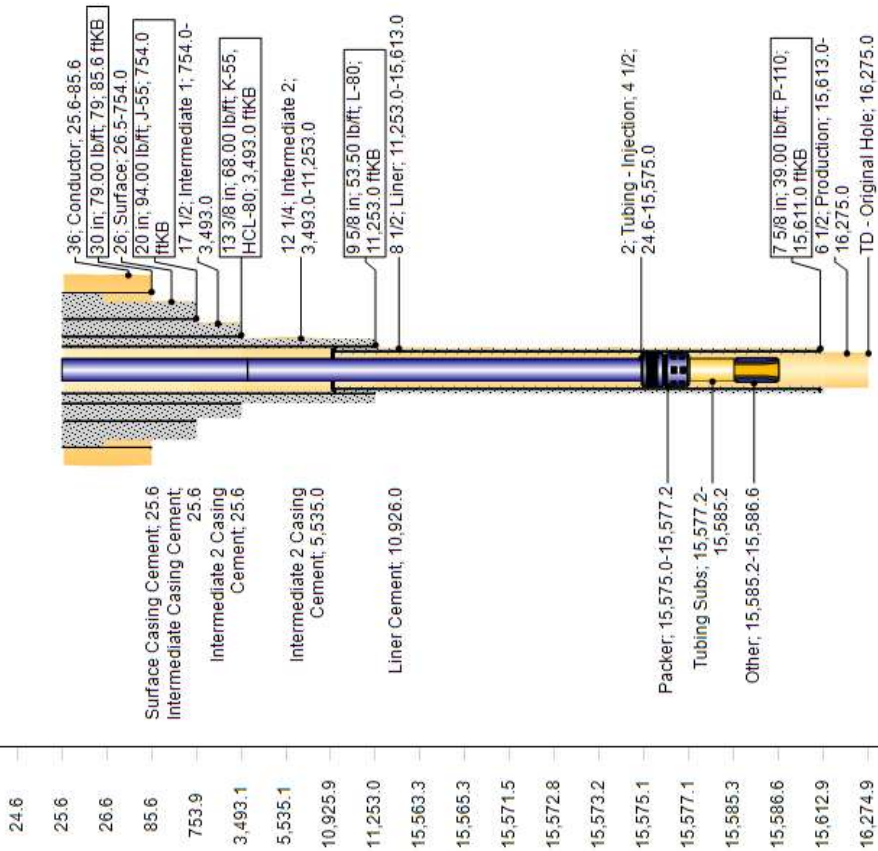
Well Name: ND 19 Federal 001 SWD

API/UVI 3001539713	SAP Cost Center ID 1654171001	Permit Number	State/Province New Mexico	County Eddy
Surface Location T24S-R30E-S19	North/South Distance (ft) 516.0	North/South Reference FNL	Original KB Elevation (ft) 3,212.62	Ground Elevation (ft) 3,187.01
Field Name Devonian (Wildcat)	Well Classification Salt Water	Well Type Disposal	Soud Date 12/10/2011 17:00	East/West Reference FEL
			East/West Distance (ft) 705.0	Latitude (?) 32° 12' 31.644" N
			Well Status Active	Longitude (?) 103° 54' 50.296" W
			Method Of Production	

Vertical, Original Hole, 1/2/2024

Vertical schematic (actual)

Vertical schematic (proposed)



XTO Energy

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Report Printed: 12/7/2023

District I
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 302305

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 302305
	Action Type: [C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	should tubing replacement be required, the same tubing size shall be replaced as stipulated by the respective order. The packer shall not be set more than 100 ft from the top of the perforation or the top part of the open interval	3/5/2024