

Well Name: BIG EDDY UNIT 29 FEDERAL SWD	Well Location: T21S / R29E / SEC 29 / SWSW / 32.4458 / -104.01386	County or Parish/State: EDDY / NM
Well Number: 1	Type of Well: INJECTION - ENHANCED RECOVERY	Allottee or Tribe Name:
Lease Number: NMLC069144	Unit or CA Name: BIG EDDY	Unit or CA Number: NMNM68294X
US Well Number: 3001543253	Operator: XTO PERMIAN OPERATING LLC	

Accepted for record only BLM approval required NMOCD 9/17/24 KF

Notice of Intent

Sundry ID: 2807354

Type of Submission: Notice of Intent

Date Sundry Submitted: 08/16/2024

Date proposed operation will begin: 08/23/2024

Type of Action: Workover Operations

Time Sundry Submitted: 06:32

Procedure Description: XTO Permian Operating LLC. respectfully requests permission to workover the above mentioned well as per the attached procedure. Please also see the attached WBD.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Big\_Eddy\_Unit\_29\_Federal\_SWD\_SWD\_1\_WO\_Procedure\_for\_NOI\_20240816182935.pdf

Received by OCD: 8/25/2024 6:42:51 PM

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Conditions of Approval

Specialist Review

Workover\_or\_Vertical\_Deepen\_COA\_20240821210358.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: AUG 16, 2024 06:29 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLANDState: TX

Phone: (432) 620-6700

Email address: 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: 08/21/2024

Signature: Jonathon Shepard

**OBJECTIVE:** Repair tubing/packer leak and return well on injection

**MASIP:** 600 psi      **MAOP:** 1500 psi (while pressure testing)      **Class B** (300-1000 psi) **BOP Required**

**WO NOTES:**

- Tubing and casing are 256 psi and 381 psi respectively with the 9.15 PPG produced water levels expected to be at or near the surface. 10 PPG KWF will result ~365 psi over-balance at casing shoes.
- Top of Packer BHA was set at 13,950' (Tally, 70' above Production CSG shoes) with reference to KB-GL being 30'.
- Proposed same tapered tubing design (5-1/2" 17# L80 BTC and 4-1/2" 13.5# L80 BTC w/ TK15XT coating and KC Coupling)
- New Baker packer BHA will be a contingency if the existing packer to fail the pressure test. The base plan is to drill-out/pull the existing packer if no significant hiccup while performing the
- Existing tubing will be laid down and scrap, unless visual inspection indicated good quality which will necessitate inspection for future use

**PROCEDURE:**

1. MIRU WO rig and support equipment
2. Bleed any casing gas and monitor the rate of pressure buildup
3. Flush tubing with 355 BBLS of 10 PPG KW
  - 284 BBLS tubing capacity + 25% excess (71 BBLS)
  - 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 637 BBL of 10 PPG KWF. Monitor pressure buildup
  - 510 BBLS - Tubing X Casing annulus + Open-hole capacity & 127 BBL (25% Excess)
6. ND injection tree
  - Inspect tubing hanger thread condition to determine whether a spear will be needed. Take photos for documentation
  - Tubing Hanger specs (from Vaught): T-EN, 7, 11 X 5-1/2 BC BOX BTM x 5.625-4TPI STUB **ACME-2G** BOX TOP, W/5 HBPV THD.
  - A casing spear should be considered should landing thread compromised
  - Send in tree to Sonic WH (Jeff Barnett) for testing and repair
7. NU 10K x 5K DSA, 5K Class B BOPs with VBR for 3-1/2" to 4-1/2". 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 **220 Klbs**, BW with **10 ppg fluid is 187 Klbs**.

- Ensure rig floor and location are cleared and personnel in safe area while conducting the pull test on tubing
  - 40 pts overpull at surface is <40% tensile rating of 17# P110 pipe (Top 9,258') when new
  - Final pick-up and slack-off were ~230K (with block weight). Tubing was hanged ~with 20K compression on packer. Tubing was set with 20K lbs compression (Pick up and drop down to attempt checking the initial weight if necessary).
9. Pick up with 1-4 pts over-pull, rotate 8-10 round to release from Baker's permanent packer. Gradually making step increase on over-pull until successful releasing from packer.
- 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 5-1/2" & 4.5" tapered tubing. 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 pulled and send to Baker to verification and refurbishment
  - If pipe cutting performed, RU overshot and 4-1/2" basket grapple with 3-1/2" working. Rotate and release from packer. Pull out and LD the remaining 4-1/2" tubing
11. MU Baker's dummy seal assembly. RIH and sting into packer
12. PT casing and packer to 1500 psi for 30 minutes
- If test failed, make a bit and casing scraper run for 7" casing. TIH 7" RBP/Service Packer combo. Set RBP above packer and pressure test casing to 1500 psi. Use the 9-5/8" service packer to determine leak point as necessary
  - If failure is determined in casing or liner top, evaluation will be done to either perform a cement squeeze or suspend the operation
  - If packer failure is determined, the base plan is to mill/pull the existing packer and set a new Baker packer if no significant hiccup on WO execution. Make additional trip to mill/pull the existing packer. If well conditions make it challenging to mill/pull existing packer. New packer may be set above existing packer. No pump-out plug nor rupture disk will be run with new packer if well remains static with 10 PPG.
  - **The current packer is set 13,950 ft-MD. Packer depth is required to within 100' from openhole which starts at 14,020 ft-MD.** Regulatory exception will be required to set packer above 13,920 ft-MD
13. MIRU acid transport truck and pump unit (Jose Romero - Acid Tech - 432-266-2243, [romero@acidtechservices.com](mailto:romero@acidtechservices.com)). Pressure test line to 300/3500# for 15 minutes each, 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 (~13 BPM) while keeping treating pressure below 2800 psi
- Be sure to monitor annulus pressure during acid treatment
  - Pumping acid down workstring with workstring hang below liner top will be considered if scale build up is seen when pulling out tubing.

14. Displace acid with treated KWF 25% excess. Once acid is flushed and displaced, shut down and monitor 5 min, 10 min, and 15 min ISIP's if well is not on a vacuum
15. POOH and LD work-string and dummy seal assembly
16. TIH Baker latch seal assembly w/ tapered 5-1/2" x 4.5" tubing and latch into packer.  
**ENSURE TUBOSCOPE REP IS ON SITE WHILE TIH NEW PIPE**
  - Tubing String Specs:
    - i. ~9300' of 5-1/2" 17# L80 BTC w/ TK 15XT coating and KC Coupling
    - ii. 5-1/2" BTC box x 4-1/2" pin with TK 15XT
    - iii. ~4700' of 4-1/2" 13.5# L80 BTC w/ TK 15XT coating and KC Coupling
    - iv. Nickel coated latch seal assembly - Baker
  - 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
17. 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 40 pts compression
  - Fill TCA to full if needed
18. NU tree. Pressure test void to rated working pressure and trees to 4500 psi
19. 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, and Clint Pinson for review
  - Add chart picture to Wellview Attachment section
  - Deliver physical chart to Pat Wisener or Clint Pinson to be handed over to Frank Fuentes
  - NOTE: If new packer assembly is run with either pump out plug or rupture disk, PT tubing to 1500 psi and monitoring casing annulus for 30 minutes before rupturing disc
20. If new packer was run with bust dish, MIRU W/L, Pressure test to 300/1500 psi for 15 minutes each. RIH with chisel and rupture disk
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.

**CURRENT****Schematic - Wellbore - Vertical****Well Name: Big Eddy Unit 29 Federal SWD 001**

API/UVI 3001543253	SAP Cost Center ID 1090751001	Permit Number BLM	State/Province New Mexico	County Eddy
Surface Location T21S-R29E-S29	Spud Date 2/16/2019 23:30	Original KB Elevation (ft) 3,331.60	Ground Elevation (ft) 3,301.60	KB-Ground Distance (ft) 30.00

**Vertical schematic (actual)**

4/9/2019; Tubing Hanger; 5 1/2 in; 31.5 ftKB  
 4/9/2019; Tubing (w/11.2' depth adjustment); 5 1/2 in; 54.6 ftKB

4/9/2019; Tubing; 5 1/2 in; 9,286.1 ftKB  
 4/9/2019; Cross Over; 5 1/2 in; 9,287.6 ftKB

4/9/2019; Tubing; 4 1/2 in; 13,940.7 ftKB

4/9/2019; Tubing Pup Joint; 4 1/2 in; 13,946.8 ftKB  
 4/9/2019; Seal Assembly; 4 1/2 in; 13,950.0 ftKB  
 4/9/2019; Baker Permanent PKR; 5.68 in; 13,955.0 ftKB  
 4/9/2019; PKR PIN down ; 5.69 in; 13,955.8 ftKB  
 4/9/2019; Pup ; 4 1/2 in; 13,961.0 ftKB  
 4/9/2019; Profile Nipple; 5.04 in; 13,962.5 ftKB  
 4/9/2019; Pup; 4 1/2 in; 13,967.9 ftKB  
 4/9/2019; Profile Nipple; 5.03 in; 13,969.5 ftKB  
 4/9/2019; Dual Disc Mule Shoed; 5.64 in; 13,971.7 ftKB



Conductor; 36 in; 120.0 ftKB  
 Casing; Conductor; 30 in; 235.00 lb/ft; J-55; 30.0-120.0 ftKB  
 Surface; 24 in; 375.0 ftKB

Casing; Surface; 18 5/8 in; 87.50 lb/ft; J-55; 30.0-375.0 ftKB  
 Intermediate; 17 1/2 in; 2,870.0 ftKB

Casing; Intermediate 1; 13 3/8 in; 68.00 lb/ft; HCL-80; 30.1-2,870.0 ftKB  
 Intermediate; 12 1/4 in; 10,245.0 ftKB

Casing; Intermediate 2; 9 5/8 in; 53.50 lb/ft; HCP-110; 30.0-10,240.0 ftKB

Intermediate; 8 1/2 in; 14,020.0 ftKB

**New packer may be installed on top of existing packer if fail pressure test**

Casing; Liner-Drilling; 7 in; 32.00 lb/ft; P-110; 9,783.4-14,020.0 ftKB  
 Open Hole; 6 in; 14,900.0 ftKB  
 TD - Original Hole; 14,900.0 ftKB

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 377313

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 377313
	Action Type: [C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
kfortner	Accepted for record only BLM approval required NMOCD 9/17/24 KF	9/17/2024