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State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

Online Phone Directory Visit:
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OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-39400
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/> SWD		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator XTO Energy Inc.		6. State Oil & Gas Lease No.
3. Address of Operator 6401 Holiday Hill Rd Bldg 5, Midland TX 79707		7. Lease Name or Unit Agreement Name Nash Unit
4. Well Location Unit Letter H : 1620' feet from the North line and 1120' feet from the East line Section 13 Township 23S Range 29E NMPM County Eddy		8. Well Number 53
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2999' GL		9. OGRID Number 005380
10. Pool name or Wildcat SWD; Devonian		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

XTO Energy Inc. respectfully requests approval to workover/tubing repair the above mentioned well. Please see attached workover procedure, current WBD, and Proposed WBD.

Spud Date:

10/08/2011

Rig Release Date:

01/02/2012

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kristen Houston TITLE Regulatory Analyst DATE 8/19/2024

Type or print name Kristen Houston E-mail address: kristen.houston@exxonmobil.com PHONE: (432)894-1588
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any): _____



Nash Unit 53 SWD
API NUMBER: 3001539400
Eddy County, New Mexico

Repair HIT/PKR

Current Status: SI due to tubing and casing communication with 234 psi in tubing and 251 psi on casing

Work Objective: Repair tubing / packer leak

Open-hole: 14,906' MD – 16,445' MD

Please see attached wellbore diagram for additional information.

MASIP: 500 psi Class B BOP

MAOP: 1500 psi During Pressure Testing Only

Procedure 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 14,807' (Tally, 99' above Production CSG shoes) with reference to KB-GL being 17'.
- Proposed same tubing design (4-1/2" 13.5# L80 BTC) w/ TK15XT coating and KC Couplings
- Existing packer is 12 years old – It is likely another packer will be required
- Existing tubing string 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 276 BBLS of 10 PPG KW
 - a. 221 BBLS tubing capacity + 25% excess (55 BBLS)
 - b. Increase flush volume if sufficient return taken on casing
4. MIRU WLU. RIH CCL+GR and tubing perforator. Shoot holes above packer

- a. Record tubing and casing pressure immediately before and after perforating
- b. 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 acid into open-hole.
5. Flush the casing with 870 BBL of 10 PPG KWF. Monitor pressure buildup
 - a. 696 BBLs - Tubing X Casing annulus + Open-hole capacity & 174 BBL (25% Excess)
6. Install BPV (Cactus) and ND Cactus injection tree
 - a. Prior two attempts of setting TWC were unsuccessful. It is uncertain whether the third attempt to set TWC will be successful. If encounter difficulty lubricating the TWC for 2nd barrier
 - Discuss with Superintendent Pat Wiesner about removing the Upper Master Valve
 - Run in with handheld camera (Pat has this) to assess the tubing hanger to determine if additional effort should put forward setting the TWC
 - b. Base case for Well Control Barrier will be KWF and BPV/TWC. However, if the BPV/TWC cannot be installed, one barrier is allowed as per Uncon OIMS 3 SOP if meeting any of the below conditions (in green) below. Seek WW Supt approval before ND tree with just one barrier

Well Control Barrier Requirements

- [E] Maintain two barriers for control of wells capable of continuous flow.
 - Kill weight fluid (200 psi minimum recommended over-balance) is considered one barrier.
- Reduced barriers are permitted for the following wellwork scenarios:
 - When removing or installing well control equipment (e.g., BOPs, Frac stack, Tree), a single barrier is permitted provided that it is tested and verified not to leak. Examples of single barriers include full bore gate valve, hanger w/ BPV, and an unperforated casing string that may or may not be equipped with toe sleeve.
 - For wells that bleed to zero pressure and are not capable of continuous flow.
 - For low pressure flowing or artificial lift wells that will stand full of kill weight fluid and remain dead.
 - For low bottom hole pressure wells that will not stand full of fluid, but continuous feed of fluid will keep the well killed during equipment removal and installation.

- c. Torque wrench must be set to spec to allow speedy make up
 - d. Set RBP if well conditions required should 3rd attempt to set BPV/TWC unsuccessful
 - e. Inspect tubing hanger thread condition to determine whether a spear will be needed. Take photos for documentation
 - f. Tubing Hanger specs: No infos located – Effort Exhausted
 - g. A casing spear should be considered should landing thread compromised
 - h. Send in tree to Cactus (Jimmy Miller) 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
 - a. Tubing string air weight is **201 Klbs**, BW with **10 ppg fluid is 170 Klbs**.
 - b. Ensure rig floor and location are cleared and personnel in safe area while conducting the pull test on tubing
 - c. 40 pts overpull at surface is <55% tensile rating of 13.5# P110 pipe when new
 - d. Final pick-up and slackoff weight were ~225K lbs and 210K lbs (w/ unknown block weight) . Tubing was hanged with 50K 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 Halliburton permanent packer. Gradually making step increase on over-pull until successful releasing from packer.
 - a. 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. Send tubing string to scrap/inspection per procurement instruction
 - a. Visually inspect pins for IPC damage while TOOH. Take photos for documentation
 - b. 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
 - c. Inspect elastomer seals of ratchet latch SA for signs of damage when pulled and send to Halliburton for verification and refurbishment
 - d. 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 Halliburton dummy seal assembly. RIH and sting into packer if existing packer deemed good condition (based on seal assembly condition)
12. PT casing and packer to 1500 psi for 30 minutes
 - a. 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
 - b. If failure is determined in casing or liner top, evaluation will be done to either perform a cement squeeze or suspend the operation
 - c. If packer failure is determined or the existing packer in questionable condition (based on seal assembly), new packer may be set above existing packer if exception granted by regulator. No pump-out plug nor rupture disk will be run with new packer if well remains static with 10 PPG.
 - d. **The current packer is set 14,807 ft-MD. Packer depth is required to within 100' from openhole which starts at 14,906 ft-MD.** Regulatory exception will be required to set packer above the existing packer
13. MIRU acid transport truck and pump unit (Jose Romero - Acid Tech - 432-266-2243, 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
 - a. Be sure to monitor annulus pressure during acid treatment
 - b. Pumping acid down the workstring with the 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 new 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**
 - a. Tubing String Specs:
 - i. 4-1/2" 13.5# L80 BTC w/ TK 15XT coating and KC Coupling
 - ii. Nickel coated latch seal assembly
 - b. 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
 - a. Land tubing with 40 pts compression
 - b. 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
 - a. Email/Text chart picture to Tom Lai, Pat Wisener, and Clint Pinson for review
 - b. Add chart picture to Wellview Attachment section
 - c. Deliver physical chart to Pat Wisener or Clint Pinson to be handed over to Frank Fuentes
 - d. 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)
 - a. 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.

XTO ENERGY		CURRENT		Downhole Well Profile - with Schematic		Well Name: Nash Unit 053 SWD	
API/ULI 3001539400	SAP Cost Center ID 1055491001	Permit Number	State/Province New Mexico	County Eddy	Original KB Elevation (ft) 3,016.00	KB-Ground Distance (ft) 17.00	Surface Casing Flange Elevatio...
Surface Location T23S-R29E-S13		Spud Date 10/8/2011 22:00		Ground Elevation (ft) 2,999.00			

Wellbores		Parent Wellbore		Wellbore API/ULI	
MD (ftKB)	TV D (ftKB)	Original Hole	Original Hole	Original Hole	Original Hole
17.1		Start Depth (ftKB)	17.0	Profile Type	Vertical
27.2		Section Des	Hole Sz (in)	Act Top (ftKB)	Act Btm (ftKB)
38.0		SURFACE	26	17.0	220.0
173.9		INTRM1	17 1/2	220.0	3,200.0
175.5		INTRM2	12 1/4	3,200.0	11,000.0
219.5		Liner	8 1/2	11,000.0	14,906.0
220.1		Production	6	14,906.0	16,445.0
3,150.8		Zones			
3,152.2		Zone Name	Top (ftKB)	Btm (ftKB)	Current Status
3,198.5		BRUSHY CANYON			
3,200.1		DEVONIAN			
3,500.0		Casing Strings			
6,494.1		Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)
6,496.4		Surface	220.0	20	94.00 J-55
6,886.1		Intermediate	3,200.0	13 3/8	68.00 K-55
10,847.0		Intermediate	11,000.0	9 5/8	47.00 P-110
10,857.8		Production	14,800.0	7	32.00 HCL-P110
10,916.1		Liner	14,906.0		
10,911.7		Cement			
10,996.4		Des	Type	Start Date	Top (ftKB)
11,000.0		Surface Casing Cement	Casing	10/9/2011	17.0
14,803.5		Intermediate Casing Cement	Casing	10/18/2011	17.0
14,807.1		Intermediate Casing Cement	Casing	11/9/2011	6,888.0
14,813.0		Intermediate Casing Cement	Casing	11/9/2011	3,500.0
14,820.2		Intermediate Casing Cement	Casing	11/9/2011	6,888.0
14,822.2		Intermediate Casing Cement	Casing	11/9/2011	3,500.0
14,824.5		Tubing Strings			
14,824.8		Tubing Description	Run Date	Set Depth (ftKB)	
14,824.8		Tubing - Other	3/29/2016	14,824.9	
14,824.8		Item Des	OD (in)	Wt (lb/ft)	Grade
14,824.8		Tubing/SA	4 1/2	13.50	P-110
14,824.8		Packer - 7" HES BWS	6.1		
14,824.8		Tubing Sub	3 1/2	9.20	C-75
14,824.8		XN Nipple	4.53		
14,824.8		Wireline Guide	4.52		
14,824.8		Other In Hole			
14,824.8		Run Date	Des	OD (in)	Top (ftKB)
14,824.8		4/20/2015	Fill	6	15,869.0
14,824.8		Stimulation Intervals			
14,824.8		Interval Number	Top (ftKB)	Btm (ftKB)	Pump Power Max (hp)
14,824.8		99	14,906.0	16,445.0	2
14,824.8		99	14,906.0	16,445.0	2
14,824.8		99	14,906.0	16,445.0	2
14,824.8		Proppant Totals			
14,824.8		Interval Number	Top (ftKB)	Btm (ftKB)	MIR (ppb/min)
14,824.8		99	14,906.0	16,445.0	1,383
14,824.8		99	14,906.0	16,445.0	5
14,824.8		99	14,906.0	16,445.0	12

Vertical schematic (actual)

Surface: 26 in; 220.0 ftKB

INTRM1: 17 1/2 in; 3,200.0 ftKB

Intermediate: 13 3/8 in; 3,200.0 ftKB

INTRM2: 12 1/4 in; 11,000.0 ftKB

Intermediate: 9 5/8 in; 11,000.0 ftKB

Liner: 8 1/2 in; 14,906.0 ftKB

Production: 0.00 in; 14,800.0 ftKB

Packer - 7" HES BWS; 6.10 in; 14,807.0 ftKB

XN Nipple: 4.53 in; 14,823.1 ftKB

Liner: 7 in; 14,906.0 ftKB

Acidizing

Acidizing

Acidizing

Production: 6 in; 16,445.0 ftKB

Acidizing

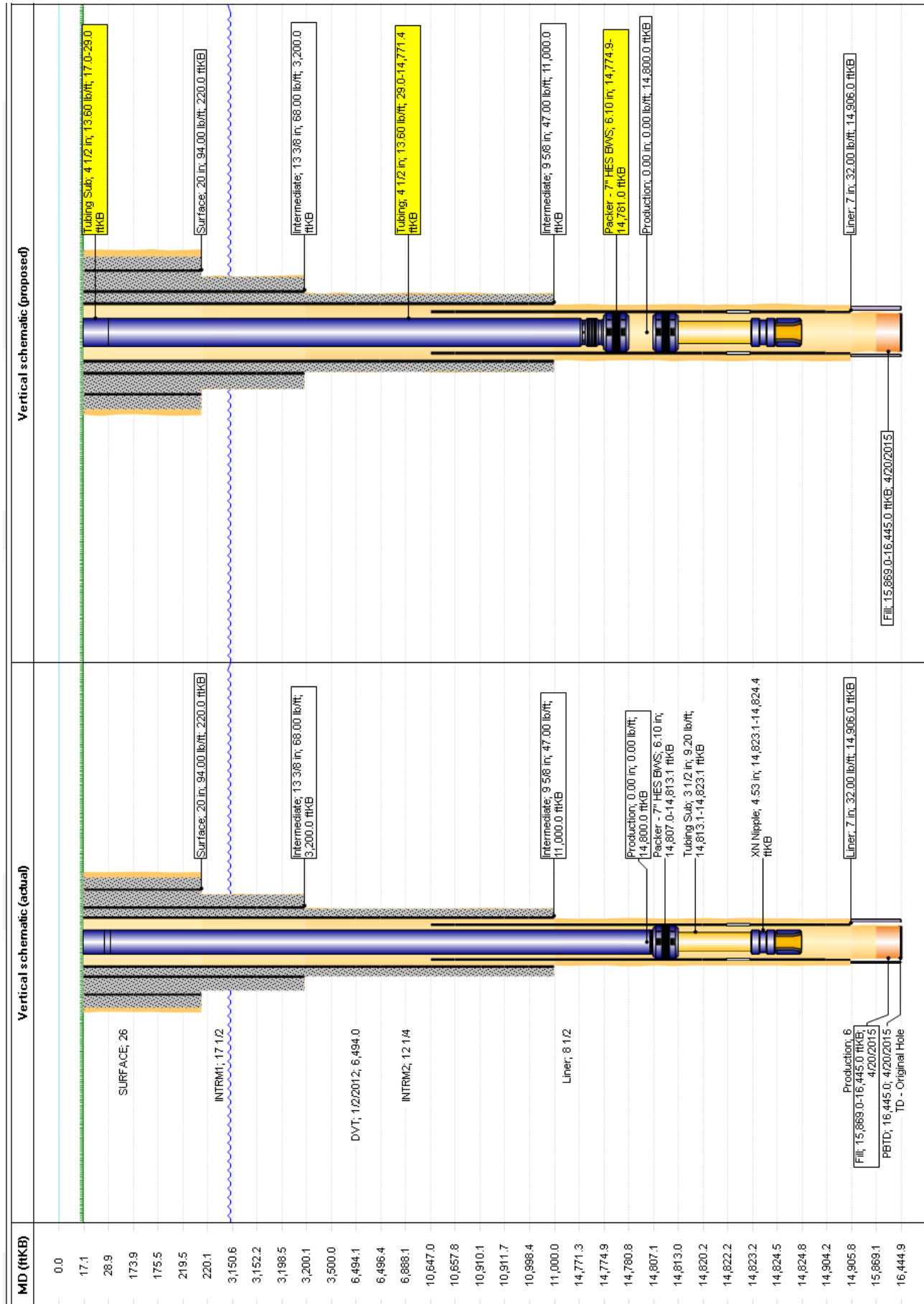
Acidizing

TD - Original Hole; 16,445.0 ftKB

PBTD; 16,445.0 ftKB

DVT: 6,494.0; 1/2/2012

Fill: 15,869.0-16,445.0 ftKB; 4/20/2015



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
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District III
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District IV
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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 375224

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 375224
	Action Type: [C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	Should the workover requires tubing change, ensure that the same tube size be replaced as stipulated by the respective SWD order. The packer shall not be set more than 100 ft above the top part of the injection interval.	9/30/2024