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

Sundry Print Report

10/13/2023

Well Name: BREECH F

Well Location: T27N / R6W / SEC 35 / NENW / 36.535934 / -107.439178

County or Parish/State: RIO ARRIBA / NM

Well Number: 10

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM03547

Unit or CA Name:

Unit or CA Number:

US Well Number: 300392093600S1

Well Status: Gas Well Shut In

Operator: CROSS TIMBERS ENERGY LLC

Notice of Intent

Sundry ID: 2756079

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 10/11/2023

Time Sundry Submitted: 02:52

Date proposed operation will begin: 10/31/2023

Procedure Description: Cross Timbers Energy, LLC requests approval to P&A the Breech F #10. Attached is the Proposed Procedure and Current and Proposed WBDs.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Breech_F_10_WBD_Current_and_Proposed_PA_20231011145037.pdf

Breech_F_10_Proposed_PA_procedure_20231011145006.pdf

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Operator: CROSS TIMBERS ENERGY LLC

Conditions of Approval

Specialist Review

General_Requirement_PxA_20231012101028.pdf

27N06W35_Breech_F_10_Geo_KR_20231012101016.pdf

2756079_NOIA_F_10_3003920936_KR_10122023_20231012101015.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: CONNIE BLAYLOCK

Signed on: OCT 11, 2023 02:50 PM

Name: CROSS TIMBERS ENERGY LLC

Title: Regulatory Technician

Street Address: 400 W 7th St.

City: Forth Worth **State:** TX

Phone: (817) 334-7882

Email address: CBLAYLOCK@MSPARTNERS.COM

Field

Representative Name: Amy Byars

Street Address:

City: **State:** **Zip:**

Phone:

Email address: abyars@txopartners.com

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 10/12/2023

Signature: Kenneth Rennick

GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densometer/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.

5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.

6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), through the Automated Fluid Minerals Support System (AFMSS) with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

BLM FLUID MINERALS
P&A Geologic Report

Date Completed: 10/12/2023

Well No. Breech F 10 (API 30-039-20936)		Location	NENW		
Lease No. NMNM03547		Sec. 35	T27N		R06W
Operator Cross Timbers Energy LLC		County	Rio Arriba	State	New Mexico
Total Depth 3300' Plugback		Formation	Pictured Cliffs		
Elevation (GL) 6583'					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/freshwater sands
Nacimiento Fm			1210		Possible freshwater sands
Ojo Alamo Ss			2325		Aquifer (possible freshwater)
Kirtland Shale					
Fruitland Fm					Coal/Gas/Possible water
Pictured Cliffs Ss					Gas
Lewis Shale					
Chacra					Gas
Cliff House Ss					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale					
Gallup					O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:
P & A

Reference Well:

a. Adjust Nacimiento plug (plug 3) to cover 50' above BLM formation top pick at 1210'.

Prepared by: *Kenneth Rennick*

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

AFMSS 2 Sundry ID 2756079

Attachment to notice of Intention to Abandon

Well: Breech F 10

CONDITIONS OF APPROVAL

1. Plugging operations must be completed by April 30, 2024.

2. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."

3. The following modifications to your plugging program are to be made:
   a. Adjust Nacimiento plug (plug 3) to cover 50' above BLM formation top pick at 1210'.

4. Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 10/12/2023

Proposed P&A Procedure

Breech F 10

Notify Farmington BLM Office at least 24hrs in advance to plugging operations 505 564-7750

1. MIRU. Bring work string for P&A work.
2. POOH and LD tbg.
3. Run a bit and csg scraper to 3150'.
4. Set CIBP @ 3120'.
5. Circulate hole with BLM/OCD approved P&A fluid.
6. Plug 1 (PC)
    a. Spot 7**sx** Class G cement on top of CIBP.
7. RU and Run CBL.
    a. A temperature survey was run showing top of cement ~2250'
    b. Run CBL and confirm with Farmington Office with CBL results.
8. Plug 2 (Ojo)
    a. Pump balanced plug **7sx** Class G cement.
        i. From 2375'-2225'
9. Plug 3 (Nacimiento)
    a. Perforate 1260'.
    b. Attempt to establish circulation…
        i. if none, spot plug to 1110' in 5.5" estimated **7sx** needed.
        ii. If established, estimated **55sx** required to fill annulus 1260' to 1060' (including 100% excess in pipe/formation section) and inside 3.5" casing.
        iii. Perf squeeze and plug from 1260'-1110'.
10. Plug 4 (surface shoe circulation attempt)
    a. Perforate 180'.
    b. Attempt to establish circulation…
        i. if none, spot plug to surface in 3.5" estimated **7sx** needed.
        ii. If established, estimated **94sx** required to fill annulus (including 100% excess in pipe/formation section) and inside 3.5".
    c. Ensure cement at surface on all strings of casing, top off as needed.
11. Cut off wellhead below surface casing flange.

12. Install P&A Marker.

Estimated 29 sx to 163 sx cement needed in total.

Please make sure all excess volumes are as follows:

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

Cross Timbers Energy

Prepared by: JRyza
Date: 03/17/2022

KB = 13 ft
GL = 6,583 ft
API# 30-039-20936

Spud Date: 08/14/1974
Ready to Produce: 10/15/1974

Breech F #10
Rio Arriba County, NM

TD – 3,300 ft MD

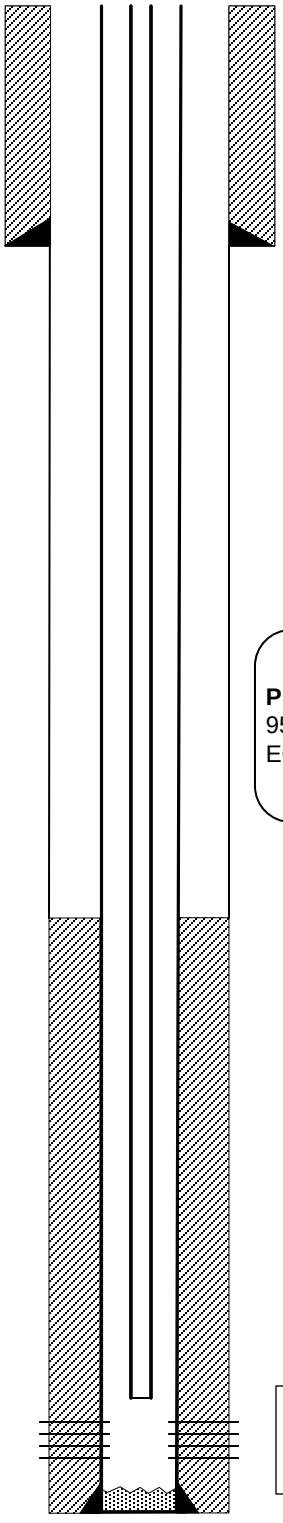
12-1/4" hole to 130'
Surface Csg: 8-5/8" 28# csg
Setting Depth: 130 ft

Cement
100sx cement
Circulated cement to surface

7-7/8" hole to 3300'
Prod Csg: 106 jts 3-1/2" 9.3# J-55
Setting Depth: 3300 ft

Cement:
Lead: 200sx Lodense cmt
Tail: 50sx neat cmt
Temp survey TOC ~2250'

Perfs
Pictured Cliffs:
3,170'-3,190'



Prod Tbg:
95 jts 1.315" OD (1.049" ID) 1.7#/ft
EOT @ 3,136'

PC perfs:
3,170'-3,190'
40 holes 0.41" Diam

PBTD: 3,300 ft MD

Cross Timbers Energy

Prepared by: JRyza
Date: 03/17/2022
P&A Design BBerry 10/11/2023

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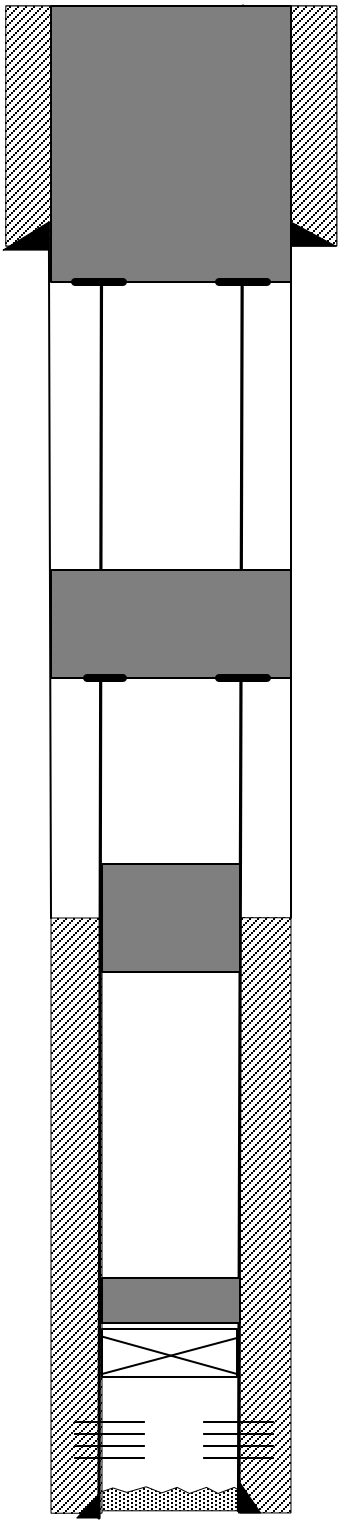
Perfs
Pictured Cliffs:
3,170'-3,190'

Name	Tops MD	Tops TVD
Nacimiento Fm	1,210	1,210
Ojo Alamo Ss (est)	2,325	2,325
Pictured Cliffs	3,170	3,170



Plug 4 (Surf Shoe) – perf @ 180' attempt to establish circulation, Pump/circ. Cmt to surf w/~94 sx if no circ., ~8 sx need to cap inside casing

Plug 3 (~Nacimiento) – perf @ 1260' attempt to establish circulation, Pump/circ. Cmt to 1110' w/55 sx if no circ., ~7 sx need to cap inside casing

Plug 2 (OJO) – Balance Plug 7sx 2375' - 2225'

Plug 1 (PC Prod) – Set CIBP @ 3120' spot 7 sx 3120' -2970'

PC perfs:
3,170'-3,190'
40 holes 0.41" Diam

PBTD: 3,300 ft MD

Proposed P&A Procedure

Breech F 10

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1. MIRU. Bring work string for P&A work.
2. POOH and LD tbg.
3. PU WS, run a bit and csg scraper to 3150'.
4. Set CIBP @ 3120'.
5. Circulate hole with BLM/OCD approved P&A fluid.
6. Plug 1 (PC/Fruitland Coal)
    a. Spot **10sx** Class G cement on top of CIBP.
    b. Plug from 3120'-2895'
7. RU and Run CBL.
    a. A temperature survey was run showing top of cement ~2250'
    b. Run CBL and confirm with Farmington Office with CBL results.
8. Plug 2 (Ojo/Kirtland)
    a. Pump balanced plug **18sx** Class G cement.
    b. From 2679'-2275'
9. Plug 3 (Nacimiento)
    a. Perforate 1260'.
    b. Attempt to establish circulation…
        i. if none, spot plug to 1110' in 3.5" estimated **7sx** needed.
        ii. If established, estimated **55sx** required to fill annulus 1260' to 1110' (including 100% excess in pipe/formation section) and inside 3.5" casing.
        iii. Perf squeeze and plug from 1260'-1110'.
10. Plug 4 (surface shoe circulation attempt)
    a. Perforate 180'.
    b. Attempt to establish circulation…
        i. if none, spot plug to surface in 3.5" estimated **8sx** needed.
        ii. If established, estimated **70sx** required to fill annulus (including 100% excess in pipe/formation section) and inside 3.5".
    c. Ensure cement at surface on all strings of casing, top off as needed.

11. Cut off wellhead below surface casing flange.
12. Install P&A Marker.

Estimated 43 sx to 153 sx cement needed in total.

Please make sure all excess volumes are as follows:

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4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

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Cement:
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Tail: 50sx neat cmt
Temp survey TOC ~2250'

Perfs
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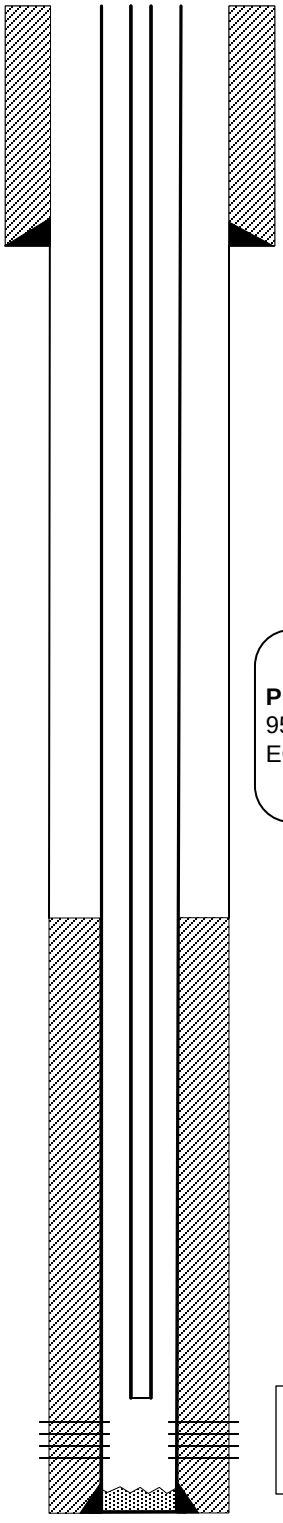
3,170'-3,190'



Prod Tbg:
95 jts 1.315" OD (1.049" ID) 1.7#/ft
EOT @ 3,136'

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PBTD: 3,300 ft MD

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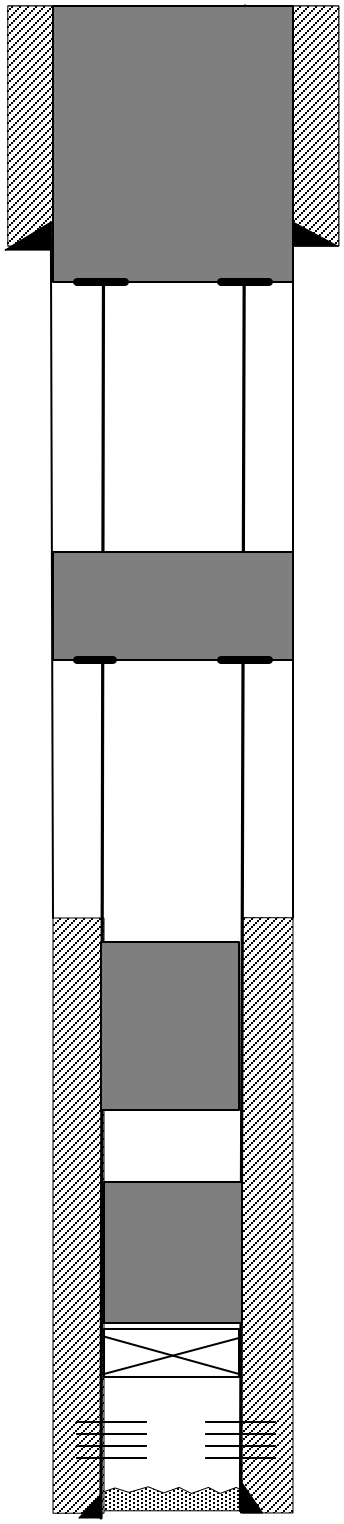

PBTD: 3,300 ft MD

Plug 4 (Surf Shoe) – perf @ 180' attempt to establish circulation, Pump/circ. Cmt to surf w/~70 sx if no circ., ~8 sx need to cap inside casing

Plug 3 (~Nacimiento) – perf @ 1260' attempt to establish circulation, Pump/circ. Cmt to 1110' w/55 sx if no circ., ~7 sx need to cap inside casing

Plug 2 (Ojo/Kirtland) – Balance Plug 18sx 2679' - 2275'

Plug 1 (PC/Fruitland Coal) – Set CIBP @ 3120' spot 10 sx 3120' -2895'

PC perfs:
3,170'-3,190'
40 holes 0.41" Diam

Name	Tops MD	Tops TVD
San Jose (est)	Surf	Surf
Nacimiento Fm (BLM)	1,210	1,210
Ojo Alamo Ss (est)	2,325	2,325
Kirtland (est)	2629	2629
Fruitland Coal (est)	2945	2945
Pictured Cliffs	3,170	3,170

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 277029

CONDITIONS

Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID: 298299
	Action Number: 277029
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	once perforation is performed at 180 feet wait 30 minutes to check for gas at surface before proceeding. Notify NMOCD 24 hours prior to moving on	10/26/2023