Sundry Print Report

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

Well Name: MKL Well Location: T26N / R7W / SEC 5 / County or Parish/State: RIO

NENE / 36.519287 / -107.592545 ARRIBA / NM

Well Number: 15 Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

Lease Number: NMSF079162 Unit or CA Name: Unit or CA Number:

US Well Number: 300390674700S1 Well Status: Gas Well Shut In Operator: CROSS TIMBERS

ENERGY LLC

Notice of Intent

Sundry ID: 2757294

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 10/19/2023 Time Sundry Submitted: 03:09

Date proposed operation will begin: 11/20/2023

Procedure Description: Cross Timbers Energy, LLC requests approval to plug and abandon the MKL #15. Attached is the Proposed Procedure and WBDs.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

MKL__15_WBD_Current_and_Proposed_PA_20231019150816.pdf

 $MKL_15_Proposed_PA_procedure_20231019150805.pdf$

eived by OCD: 10/20/2023 12:30:43 PM Well Name: MKL Well Location: T26N / R7W / SEC 5 /

County or Parish/State: Rige 2 of ARRIBA / NM

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NENE / 36.519287 / -107.592545

Type of Well: CONVENTIONAL GAS

Unit or CA Name: Unit or CA Number:

US Well Number: 300390674700S1 Well Status: Gas Well Shut In **Operator: CROSS TIMBERS**

ENERGY LLC

Conditions of Approval

Specialist Review

Well Number: 15

Lease Number: NMSF079162

General_Requirement_PxA_20231020105849.pdf

2757294_NOIA_15_3003906747_KR_10202023_20231020105823.pdf

26N07W05_MKL_15_Geo_KR_20231020105823.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 19, 2023 03:08 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

Signature: Kenneth Rennick

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: 10/20/2023

Proposed P&A Procedure

MKL 15

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. PU WS, run a bit and csg scraper to ~2780'.
- 4. Set CIBP @ 2754'.
- 5. Circulate hole with BLM/OCD approved P&A fluid.
- 6. Plug 1 (PC/Fruitland Coal)
 - a. Spot 8sx Class G cement on top of CIBP.
 - b. Plug from 2754'-2484'
- 7. No CBL necessary.
 - a. Cement to surface during cement job for 2 7/8" slimhole casing
- 8. Plug 2 (Ojo/Kirtland)
 - a. Pump balanced plug 8sx Class G cement.
 - b. From 2215'-1942'
- 9. Plug 3 (Nacimiento)
 - a. Perforate through 2 7/8", cement, and 5 ½" casing strings @ 747'.
 - b. Attempt to establish circulation...
 - i. if none, spot plug to 597' in 2 7/8" estimated **5sx** needed.
 - ii. If established, estimated **36sx** required to fill 5 ½" annulus 747' to 597' (including 100% excess in pipe/formation section) and inside 2 7/8" casing.
 - iii. Perf squeeze and plug from 747'-597'.
- 10. Plug 4 (surface shoe circulation attempt)
 - a. Perforate through 2 7/8", cement, and 5 ½" casing strings @ 145'.
 - b. Attempt to establish circulation...
 - i. if none, spot plug to surface in 2 7/8" estimated **5sx** needed.
 - ii. If established, estimated 74sx required to fill 5 ½" annulus (including 100% excess in pipe/formation section) and inside 2 7/8".
 - c. Ensure cement at surface on all strings of casing, top off as needed.
- 11. Cut off wellhead below surface casing flange.

P&A Procedure 10/18/2023

12. Install P&A Marker.

Estimated 26 sx to 126 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.

P&A Procedure 10/18/2023

KB = 11 ft GL = 6,637 ft API# 30-039-06747

Prepared by: JRyza

Date: 03/04/2022

Spud Date: 09/10/1952

Ready to Produce: 11/15/1952 Recomplete PC: 06/01/1990

Cross Timbers Energy

MKL #15 Rio Arriba County, NM

TD - 2,889 ft MD

Surface Csg: 10-3/4" 32# csg

Setting Depth: 95 ft

Cement 150sx Cement Circulated cement to surface

Int Csg: 5-1/2" 17# Setting Depth: 2805 ft

Cement 200sx Cement

(06/1990) - Run csg into OH 4-3/4" hole to 2889' Prod Csg: 2-7/8" 6.5# J-55 Setting Depth: 2888'

Cement

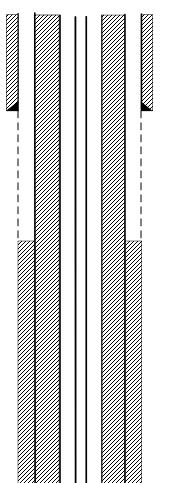
Lead: 70sx Lite cmt
Tail: 150sx Class B
Circulated cement to surface

Perfs Pictured Cliffs: 2 spf:

2,804'-2,822'

Frac:

40,000# 20/40 sand 5,000# 12/20 sand 13,738 gal fluid, 461K scf nitorgen



Prod Tbg 06/15/1990:

1" 10-RD NVE tubing: 84 jts tbg, pin collar on bottom

EOT=2,801'

Pictured Cliffs perfs: 2,804' - 2,822'

PBTD: 2,871 ft MD

KB = 11 ftGL = 6,637 ft

TVD

Surf

697

1,992

2165

2534

2,804

Prepared by: JRyza

Date: 03/04/2022

API# 30-039-06747

Spud Date: 09/10/1952 Ready to Produce: 11/15/1952 Recomplete PC: 06/01/1990

MD

Surf

697

1,992

2165

2534

2,804

Bberry Proposed P&A 10/18/2023

Name

Kirtland (NMOCD Well files)

San Jose (est)

Nacimiento Fm (est)

Ojo Alamo Ss (est)

Fruitland Coal (est)

Pictured Cliffs

Cross Timbers Energy

MKL #15 Rio Arriba County, NM

TD - 2,889 ft MD

Surface Csg: 10-3/4" 32# csg Setting Depth: 95 ft

Cement 150sx Cement Circulated cement to surface

Int Csg: 5-1/2" 17# Hole Size: 7.875" Est. (NMOCD Csg Records shows

7.25" Hole)

Setting Depth: 2805 ft

Cement 200sx Cement Class C **Estimated TOC**

(06/1990) - Run csg into OH 4-3/4" hole to 2889' Prod Csq: 2-7/8" 6.5# J-55 Setting Depth: 2888'

Cement

Lead: 70sx Lite cmt Tail: 150sx Class B Circulated cement to surface

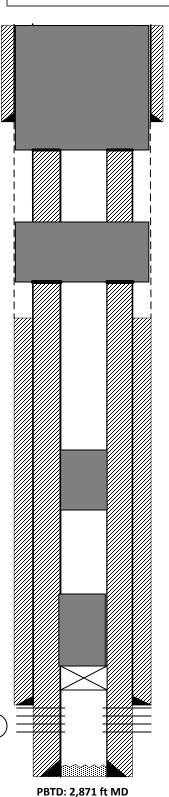
Perfs Pictured Cliffs: 2 spf: 2,804'-2,822'

Frac:

40,000# 20/40 sand 5.000# 12/20 sand 13,738 gal fluid, 461K scf nitorgen

Pictured Cliffs perfs: 2,804' - 2,822'

Proposed SLIMHOLE P&A



Plug 4 (Surf Shoe) to establish circulation, Pump/ circ. Cmt to surf w/ need to cap inside casing

perf @ 145' attempt ~74 sx if no circ., ~5 sx

Plug 3 (~Nacimiento) - perf @ 747' attempt to establish circulation, Pump/circ. Cmt to 597' w/36 sx if no circ., ~5 sx need to cap inside casing

TOC Est 1270' @ Class C (1.33 yield) and 200 sx

> Plug 2 (Ojo/Kirtland) - Balance Plug 8 sx 2215' - 1942'

Plug 1 (PC/Fruitland Coal) -Set CIBP @ 2754' spot 8 sx 2754' -2484'

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 <u>minimum general</u> 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.

2

- 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.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

6251 COLLEGE BLVD. FARMINGTON, NEW MEXICO 87402

AFMSS 2 Sundry ID 2757294

Attachment to notice of Intention to Abandon

Well: MKL 15

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. 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 10/20/2023

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 10/20/2023

Well No. MKL 15 (API 30-039-06747)		Location					
Lease No. NMSF079162		Sec. 5	T26N			R07W	
Operator Cross Timbers Energy LLC		County	Rio Ar	riba	State	New M	Iexico
Total Depth 3300' Plugback		Formation	Pictured	Cliffs			
Elevation (GL) 6637'							

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/freshwater sands
Nacimiento Fm	697				Possible freshwater sands
Ojo Alamo Ss	1992				Aquifer (possible freshwater)
Kirtland Shale	2165				
Fruitland Fm	2534				Coal/Gas/Possible water
Pictured Cliffs Ss	2804				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

- No available raster logs for the well. The raster logs for the reference well nearby does support the estimated formation tops by the operator. Comparable due to the proximity. Appropriate for the area.

Reference Well: Burns Federal 001 US Well Number 30-039-06756 Sec 5, T 26N, R 7W

Prepared by: Kenneth Rennick

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

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 277745

CONDITIONS

Operator:	OGRID:
CROSS TIMBERS ENERGY, LLC	298299
400 West 7th Street	Action Number:
Fort Worth, TX 76102	277745
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	once perforation at 145' is performed wait 30 minutes (checking for gas)before proceeding Notify NMOCD 24 hours prior to moving on	10/26/2023