

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMSF079162

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
MKL 132. Name of Operator
CROSS TIMBERS ENERGY LLCContact: SAMANNTHA AVARELLO
E-Mail: SAVARELLO@MSPARTNERS.COM9. API Well No.
30-039-06615-00-S13a. Address
#36 ROAD 350
FLORA VISTA, NM 874153b. Phone No. (include area code)
Ph: 817-334-774710. Field and Pool or Exploratory Area
SOUTH BLANCO PICTURED CLIFFS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 7 T26N R7W NENE 782FNL 466FEL
36.505417 N Lat, 107.607758 W Lon

11. County or Parish, State

RIO ARRIBA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Hydraulic Fracturing☐ New Construction☒ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

CTE intends to Plug and Abandon he MKL 13. P&A and reclamation plan attached

Conditions of Approval attached

Notify NMOCD 24 hrs
prior to beginning
operations

NMOCD

JUL 25 2019

DISTRICT III

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #464730 verified by the BLM Well Information System

For CROSS TIMBERS ENERGY LLC, sent to the Farmington

Committed to AFMSS for processing by ALBERTA WETHINGTON on 05/13/2019 (19AMW0315SE)

Name (Printed/Typed) SAMANNTHA AVARELLO

Title REGULATORY TECHNICIAN

Signature (Electronic Submission)

Date 05/09/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JOE KILLINS

Title ENGINEER

Date 07/18/2019

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Farmington

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.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

NMOCD

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

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: South Blanco MKL 13
API: 3003906615

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

**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 H₂S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, 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.

MKL #13

P&A Procedure

- 1 48 Hours Prior to job notify BLM & NMOCD.
- 2 MI&RU DDP.
- 3 ND Wellhead & NU BOP.
- 4 TOOH & Stand Back +/-2277' 2-3/8", 4.7#, J-55, EUE-8RD TBG.
- 5 MU&TIH w/ w/ 4.5" Casing Scraper to +2130'. TOOH
- 6 MI&RU e-Line Unit Run CBL F/ PBTD - T/ Surface. RD e-Line.
- 7 MU&TIH w/ 4-1/2" x 2-3/8" CICR & Set @ 2128'. Test TBG to +1000 PSI, CSG to +500 PSI.
- 8 MI&RU Cement Service. Mix & Pump Plug #1: 2081 - 2212' (PC Top: 2181'; PC Perfs: 2178'-2212') 25 SX Class B CMT (1.18 CF/SX). Displace 16 SX Thru CICR. Spot Remaining 9 SX on CICR, leaving +50' CMT above CICR.
- 9 PU above CMT Plug to -1950' & Reverse Circulate Clean. WOC. TIH & Tag TOC, Reset plug as needed.
- 10 PU TBG T/ 1823'. Mix & Pump Plug #2, 1673' - 1823' (Fruitland Top: 1773') 26 SX Class B CMT (1.18 CF/SX) Balanced Plug.
- 11 PU above CMT Plug to -1600' & Reverse Circulate Clean. WOC. TIH & Tag TOC, Reset plug as needed.
- 12 PU TBG T/ 1566'. Mix & Pump Plug #3, 1416' - 1566' (Kirtland Top: 1516') 26 SX Class B CMT (1.18 CF/SX) Balanced Plug.
- 13 PU above CMT Plug to -1300' & Reverse Circulate Clean. WOC. TIH & Tag TOC, Reset plug as needed.
- 14 PU TBG T/ 1405'. Mix & Pump Plug #4, 1255' - 1405' (Ojo Alamo Top: 1355') 26 SX Class B CMT (1.18 CF/SX) Balanced Plug.
- 15 PU above CMT Plug to -1100' & Reverse Circulate Clean. WOC. TIH & Tag TOC, Reset plug as needed.

16 TOOH. MI&RU e-Line Unit. RIH & Perf 4 Squeeze Holes @ 336'. ROOH w/ Guns.
RD&MO e-Line Unit.

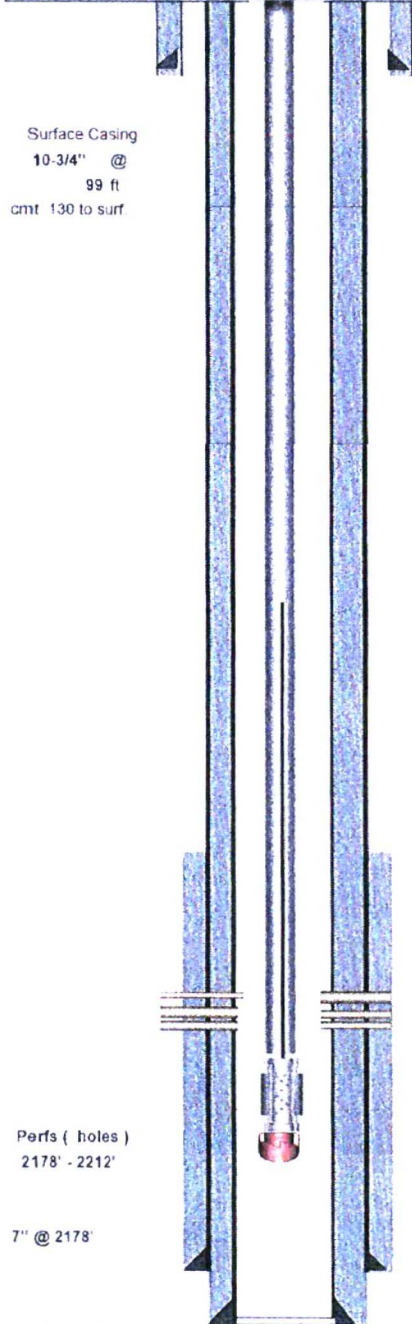
17 Mix & Pump Plug #5, 0 - 336' (Nacimieto Top: 286') 59 SX Class B CMT (1.18 CF/SX)
Balanced Plug.

18 Verify CMT is at circulated and surface. Top out as needed.

19 RD&MO All Services. Reclaim location.

Cross Timbers Energy, LLC

Well: MLK 13		Field: South Blanco		Date: 04/10/19	
Loc: 1020' FNL & 360' FEL		T26N-R7W-S7			
County: Rio Arriba		State: New Mexico			
API# 30-039-06615		Size, in	Wgt, lb/ft	Grade	Hole Size
KB: 0'	Surf. Csg:	10-3/4	35.75#	J-55	12-1/4"
GL: 6122'	Prod Csg (1):	7	20#	J-55	8-3/4"
SPUD: August 24, 1952	Prod Csg (2):	4-1/2	10.5	J-55	6-1/4"
COMPLETION: September 27, 1952	Tbg				
MTD: 2466'	PBTD: 2177'	CURRENT STATUS: N/A FAP = N/A			



Float Collar:	ft	TOC:
Shoe:	ft	DV TOOL:
	ft	CIBP
EOT	2277 ft	PKR:

04/12/13 SITP 0 psig SICP 70 psig @ time of SI SI & INA @ RTU #50148. FR for SI & INA. PC perfs fr/ 2,192' - 2,212' SN @ 2,278'. EOT @ 2,308'. PBTD @ 2,390'.
10/07/15 SITP 0 psig SICP 55 psig RWTP @ 11:45 a.m. 10.07.15

10/11/16 SITP 0 psig SICP 45 psig RE-Activate @ 11:45 a.m. 10

Formation	Comments/Tops	Per
1 PICTURED CLIFFS		2
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as of 09/16/2011

Tbg detail: 69 jts -- 2-3/8" @ 2277'

SN = 2278'. OEMA @ 2308' EOT = 2277"

SN = 2278'
EOT = 2277"

as of 09/16/2011

Rod / pump detail: 16'--1-1/4" Polished Rod W/8" Liner, 4'-3/4" Rob Sub Grade D, 2175'--3/4" S 4'--7/8" SR Grade D * 2, 50'--1-1/4" SB Grade K, 3/4" Shear Tool 21k, 25'--1-1/4" SB Grade K 1'-1" Lift Sub, 3/4" SRG, 10'--1-1/4" RIP, 1'-1" Strainer Nipple

Cross Timbers Energy, LLC

Well: MLK 13		Field: South Blanco		Date: 04/10/19	
Loc: 1020' FNL & 360' FEL		T26N-R7W-S7			
County: Rio Arriba		State: New Mexico			
API# 30-039-06615		Size, in	Wgt, lb/ft	Grade	Hole Size
KB: 0'	Surf. Csg:	10-3/4	35.75#	J-55	12-1/4"
GL: 6122'	Prod Csg (1):	7	20#	J-55	8-3/4"
SPUD: August 24, 1952	Prod Csg (2):	4-1/2	10.5	J-55	6-1/4"
COMPLETION: September 27, 1952	Tbg				
MTD: 2466'	PBTD: 2177'	CURRENT STATUS: N/A FAP = N/A			

Surface Casing
10-3/4" @
99 ft
cmt 130 to surf.

Perfs (holes)
2178' - 2212'

7" @ 2178'

4-1/2" @ 2433'

Plug 5: 59 SX Class B Cement F/ 0' - 336'
Top of Nacimiento: 286'
Perf Squeeze Holes @ 336'

Plug 4: 26 SX Class B Cement F/ 1255' - 1405'
Top of Ojo Alamo: 1355'

Plug 3: 26 SX Class B Cement F/ 1416' - 1566'
Top of Kirtland: 1516'

Plug 2: 26 SX Class B Cement F/ 1673' - 1823'
Top of Fruitland: 1773'

Plug 1: 25 SX Class B Cement F/ 2081' - 2212'
CICR @ 2128'
Top of PC: 2181'
PC Perfs: 2178 - 2212'

P&A Site Reclamation

Breach A 135

Per Field Inspector instructions, Cross Timbers Energy, LLC will follow the procedures listed below

- Remove all surface equipment and buried flowlines.
- Fill in access road and recontour back to original contour.
- Rip, disk and seed all disturbed areas.