

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
Budget Bureau No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.

NMSF 078354-A

6. If Indian, Allottee or Tribe Name

DEC -4 PM 12:39

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Cross Timbers Operating Company

3a. Address

2700 Farmington Ave., Bldg. K, Ste 1 Farmington, NM 87401505-324-1090

3b. Phone No. (include area code)

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

810' FNL & 1,090' FEL, Unit A, Sec 9, T-27-N, R-9-W

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

8. Well Name and No.

Riddle A #1

9. API Well No.

30-045-06717

10. Field and Pool, or Exploratory Area

Basin Dakota
Blanco Mesaverde

11. County or Parish, State

San Juan NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 recompleat 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Cross Timbers request your approval to Plug and Abandon the above mentioned well. A copy of the procedure is enclosed for your review. Cross Timbers will plug the well within 30-90 days of your approval. Feel free to contact Cross Timbers Operating Co. if there are any questions.



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Darrin Steed

Title

Operations Engineer

Date 11/30/00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date 12/19/00

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

Title 18 U.S.C. Section 1001, makes 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 reverse)

NMOC

PLUG & ABANDONMENT PROCEDURE

11/27/00

Riddle A #1

Basin Dakota / Blanco Mesaverde
810' FNL and 1090' FEL, Section 9, T-27-N, R-9-W
San Juan Co., New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and test location rig anchors. Prepare blow pit. Comply with all NMOCD, BLM, and Cross Timbers safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with water as necessary. ND wellhead and NU BOP. Test BOP.
2. TOH and tally approximately 215 joints 2-3/8" tubing, 6669'. If necessary LD tubing and PU a workstring. Round-trip 4-1/2" gauge ring to 6673', or as deep as possible.
3. **Plug #1 (Dakota perforations and top, 6673' – 6573')**: TIH and set a 4-1/2" cement retainer at 6673'. Pressure test the tubing to 1000#. Pump 50 bbls water down the tubing. Mix 12 sxs cement and spot a balanced plug inside casing above CR to isolate Dakota perforations. PUH to 5898'.
4. **Plug #2 (Gallup top, 5898' – 5798')**: Pump 50 bbls water down the tubing. Mix 12 sxs Class B cement and spot a balanced plug inside casing to cover Gallup top. TOH.
5. **Plug #3 (Mesaverde perforations and top, 4604' – 3940')**: TIH and set a 4-1/2" cement retainer at 4604'. Load the casing with water and circulate the well clean. Pressure test casing to 500#. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix 32 sxs Class B cement and spot a balanced plug inside casing above CR to isolate Mesaverde perforations and cover the top. PUH to 3342'.
6. **Plug #4 (Chacra top, 3342' – 3242')**: Mix 12 sxs Class B cement and spot a balanced plug inside casing to cover Chacra top. PUH to 2380'.
7. **Plug #5 (Pictured Cliffs, and Fruitland tops, 2380' – 2015')**: Mix 32 sxs Class B cement and spot a balanced plug inside casing to cover Pictured Cliffs and Fruitland tops. PUH to 1590'.
8. **Plug #6 (Kirtland and Ojo Alamo tops, 1590' – 1380')**: Mix 20 sxs Class B cement and spot a balanced plug inside casing to cover Kirtland and Ojo Alamo tops. PUH to 480'.
9. **Plug #7 (Nacimiento top and 8-5/8" Casing shoe, 480' - Surface)**: Mix 40 sxs Class B cement and spot a balanced plug inside casing from 480' to surface, to cover the Nacimiento and the casing shoe. TOH and LD tubing.
10. BOP and cut off wellhead below surface casing. Install P&A marker to comply with regulations. RD, MOL, cut off anchors, and restore location.

Riddle A #1

Current

Basin Dakota / Blanco Mesaverde

NE, Section 9, T-27-N, R-9-W, San Juan County, NM

API No. 30-045-06717

Today's Date: 11/27/00

Spud: 4/14/61

Comp: 7/23/61

Elevation: 6331' GL
6343' KB

Nacimiento @ 480'

Ojo Alamo @ 1430'

Kirtland @ 1550'

Fruitland @ 2065'

Pictured Cliffs @ 2330'

Chacra @ 3292'

Mesaverde @ 3990'

Gallup @ 5848'

Dakota @ 6720'

12-1/4" Hole

5th Sqz 250' to
463' with 30 cf

4th Sqz 1226' to
Surface with 458 cf

3rd Sqz 1708' to
1712' with 290 cf

2nd Sqz -1864' to
2422' with 118 cf

1st Sqz - 3215' to
3456' with 118 cf

7-7/8" Hole

PBTD 6978'

TD 7014'

8-5/8" 24#, J-55 Csg set @ 296'
230 sxs cement (Circulated to Surface)

Well History

Apr '84: Repaired packer leak.

Aug '94: Casing repair, five
squeezes, and down hole
commingled.

2-3/8" Tubing set at @ 6669'

TOC @ 2979' (Calc, 75%)

Mesaverde Perforations:
4654' – 4740'

DV tool @ 4869'
Cmt w/ 390 sxs (785 cf)

TOC @ 5259' (Calc, 75%)

Dakota Perforations:
6723' – 6933'

4-1/2" 11.6/9.5#, J-55 Casing Set @ 7013'
Cemented with 270 sxs (533 cf)

Riddle A #1

Proposed P&A

Basin Dakota / Blanco Mesaverde

NE, Section 9, T-27-N, R-9-W, San Juan County, NM

API No. 30-045-06717

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Fruitland @ 2065'

2nd Sqz -1864' to
2422' with 118 cf

Pictured Cliffs @ 2330'

Chacra @ 3292'

1st Sqz - 3215' to
3456' with 118 cf

Mesaverde @ 3990'

Gallup @ 5848'

Dakota @ 6720'

7-7/8" Hole

PBTD 6978'

TD 7014'

8-5/8" 24#, J-55 Casing set @ 296'
230 sxs cement (Circulated to Surface)

Plug #7 480' - Surface
Cement with 40 sxs

Plug #6 1590' - 1380'
Cement with 20 sxs

Plug #5 2380' - 2015'
Cement with 32 sxs

TOC @ 2979' (Calc, 75%)

Plug #4 3342' - 3242'
Cement with 12 sxs

Set CR @ 4604'

Plug #3 4604' - 3940'
Cement with 54 sxs

Mesaverde Perforations:
4654' - 4740'

DV tool @ 4869'
Cmt w/ 390 sxs (785 cf)

TOC @ 5259' (Calc, 75%)

Plug #2 5898' - 5798'
Cement with 12 sxs

Set CR @ 6673'

Plug #1 6673' - 6573'
Cement with 12 sxs

Dakota Perforations:
6723' - 6933'

4-1/2" 11.6/9.5#, J-55 Casing Set @ 7013'
Cemented with 270 sxs (533 cf)