

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
NM-03153

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
O.H. RANDEL 2

9. API Well No.
3004505903

10. Field and Pool, or Exploratory Area
BASIN DAKOTA/GALLEGOS GALLUP

11. County or Parish, and State
SAN JUAN NM

1. Type of Well ☐ Oil Well ☒ Gas Well Other

2. Name of Operator
CROSS TIMBERS OPERATING CO.

3a. Address 2700 FARMINGTON AVE., BLDG K, SUITE 1
FARMINGTON, NM 87401

3b. Phone No. (include area code)
505.324.1090 Ext 4003

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

1850FWL 790FSL

N-10-26-11

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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 files 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 site is ready for final inspection.)

Cross Timbers Operating Company has plugged & abandoned the O.H. Randel # 2, per the procedure as attached.
SUBMITTING ENGINEER: LOREN W. FOTHERGILLSUBMITTAL DATE: 3/7/01

Electronic Submission #2855 verified by the BLM Well Information System for CROSS TIMBERS OPERATING CO. Sent to the Farmington Field Office
Committed to AFMSS for processing by Maurice Johnson on 03/09/2001

Name (Printed/Typed) LOREN W. FOTHERGILL

Title ENGINEER

Signature

Date 03/08/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved By

Title

18 MAR 2001

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 FIELD OFFICE

A - PLUS WELL SERVICE, INC.

P.O. BOX 1979
FARMINGTON, NM 87499
505-325-2627 • FAX: 505-325-1211

Cross Timbers Operating Company
O.H. Randel #2
790' FSL & 1850' FWL Section 10, T-26-N, R-11-W
San Juan County, NM
Lease No. NM 03153
API No. 30-045-05903

February 26, 2001
Page 1 of 3

Plug & Abandonment Report

Cementing Summary:

- Plug #1** with 37 sxs cement pumped down the 2-3/8" Dakota tubing to fill the perforations from 6250' to 6400', displace cement in tubing down to 5900', final squeeze pressure 600#.
- Plug #2** with 39 sxs cement inside 7" casing from 4909' to 4707' to isolate the Gallup top and cover the tubing stubs.
- Plug #2a** with 61 sxs cement with 2% CaCl₂ inside casing from 4814' to 4497' to recover the Gallup.
- Plug #3** with retainer at 3186', mix 55 sxs cement, squeeze 26 sxs outside casing from 3258' to 3158' and leave 19 sxs inside casing to 3108' to cover Mesaverde top
- Plug #4** with retainer at 1692', mix 170 sxs cement, squeeze 91 sxs outside 4-1/2" casing from 1745' to 1390' and leave 79 sxs inside casing to cover the Fruitland and Pictured Cliffs tops.
- Plug #5** with 305 sxs cement from 799' to surface, started by pumping 165 sxs down the 4-1/2" casing, then lost circulation and it pressured up to 2000#, shut in casing; then mix and pump additional 140 sxs cement down the bradenhead, final pressure 1200#.

Plugging Summary:

Notified BLM on 01/26/01

- 01-24** Drive rig toward location.
- 01-26** Held JSA. MOL and RU. Well pressures: Gallup tubing 0#, Dakota tubing 640# and casing pressure 40#. Attempt to unseat pump on Gallup side, stuck. Called for hot oil truck. No service available till Monday. Shut in well. SDFD.
- 01-29** Held JSA. Wait on hot oil truck. RU hot oil truck and pump 60 bbls down casing; casing pressured up to 300#. Pumped 1/2 bbl down Gallup tubing, pressured up to 300#. Attempt to work rods free, stuck. Trace of drilling mud flowing out tubing. RD hot oil truck. Bleed down 640# pressure on Dakota tubing. RU rig floor and tubing strings. Pulled 18,000# over string weight on rods, 26,000# total. Rods stuck. Back off rods. POH and LD 37 - 3/4" rods. RU for tubing. ND wellhead and NU BOP, test. Unseat donut on Gallup tubing. Found Gallup tubing stuck, pulled up to 70,000#. Attempt to work tubing free. Re-land tubing donut. SI well and SDFD.
- 01-30** Held JSA. Open up well and blow down 200# Dakota tubing and 20# casing pressure. No pressure on Gallup tubing. TIH with 16 - 3/4" rods, unable to go deeper due to paraffin, LD rods. Pump 22 bbls water down 7" casing and it pressured up to 750#. Continue pumping to establish a rate into the casing leak of 1-1/2 bpm at 750#. Pulled up to 65,000# on Gallup tubing, stuck. Bleed off casing and land tubing. Pump 22 bbls water down Dakota tubing and caught pressure. Establish rate 1 bpm at 1000#. RU A-Plus wireline truck. RIH with 1-13/16" gauge ring down Dakota tubing and tag SN at 6168'. POH with gauge ring. RIH with 1-1/2" sinker bars and spear down Dakota tubing, found packer seal assembly at 6201' to 6205' and end of tubing at 6261'. J. Morris with BLM and T. DeLong with CT, approved procedure change for plug #1. Plug #1 with 37 sxs cement pumped down the 2-3/8" Dakota tubing to fill the perforations from 6250' to 6400', displace cement in tubing down to 5900', final squeeze pressure 600#. SI well and SDFD.

A - PLUS WELL SERVICE, INC.

P.O. BOX 1979
FARMINGTON, NM 87499
505-325-2627 • FAX: 505-325-1211

Cross Timbers Operating Company
O.H. Randel #2
790' FSL & 1850' FWL Section 10, T-26-N, R-11-W
San Juan County, NM
Lease No. NM 03153, API No. 30-045-05903

February 26, 2001
Page 2 of 3

Plug & Abandonment Report

Plugging Summary Continued:

- 01-31** Held JSA. Open up well and bleed down. Load Dakota tubing with ½ bbl water to pressure test to 500#, held OK for 15 minutes. RU A-Plus wireline truck. RIH with jet cutter and tag cement in DK tubing at 5513'. Jet cut DK tubing at 5508'. Attempt to work DK tubing free, pulling up to 65,000#. Dakota tubing stuck. Land Dakota tubing. Pump 2-1/2 bbls water down DK tubing to load; pressured up to 1500#. Held pressure on DK tubing while bleeding off slowly. Pumped ½ bbl in 30 minutes. Attempt to work GP tubing free, pulling up to 65,000#. Gallup tubing stuck. Land GP tubing and bleed pressure off DK tubing. Unseat donut on DK tubing and remove tubing hanger. NU offset spool. Change rams to pull DK tubing. RIH with wireline and freepoint tools. Determine Dakota tubing freepoint from 4954' to 4927'. Tubing collars at 4910' and 4939'. POH with tools and RD wireline. Shut in well. SDFD.
- 02-01** Held JSA. Open up well, no pressure. RU A-Plus wireline truck. RIH with tools and backed off Dakota tubing at 4910'. Pull tubing up hole 8'. Load casing with 15 bbls water and reverse circulate the casing going up the Dakota tubing. Circulate 105 bbls water and recovered some drilling mud and shale. Circulate well clean to gray water with no solids. LD 1 joint 2-3/8" tubing and 4 tubing pup joints of the Dakota string. Land Dakota tubing donut. Rig up hot oil truck and circulate 115 bbls hot water down 7" casing and up Dakota tubing. PU and RIH with 37 ½ rods into Gallup tubing. Screw onto fish and attempt to work Gallup rods free, pulling up to 25,000#. Rods stuck. Attempt to back rods off deeper. According to weight indicator backed off in same spot. Screw back onto rods and made four attempts to back off; no change in depth. Attempt to pull rods apart, pulling up to 50,000#; rods started moving weighing 20,000# over string weight of 8,000. POH and LD 41 ½ rods dragging and swabbing out water. Shut in well. SDFD.
- 02-02** Held JSA. Open up well. Continue to POH and LD 41 ½ rods. Rods were dragging heavy and finally hung up in the Gallup tubing. Pulled rods in two at 55,000#. Left approximately 62 rods in Gallup tubing, stuck in paraffin. Unseat donut on Dakota tubing and pull out 24 joints 2-3/8" tubing. Re-land Dakota tubing at 4150'. Unseat donut on Gallup tubing and remove. RU A-Plus wireline truck. RIH down Dakota tubing and locate collars on Gallup tubing. RIH down Dakota tubing with back off shot to 4880' and attempted an outside back off of the Gallup tubing. POH with wireline. Worked Gallup tubing, not free. Shut in well. SDFD.
- 02-05** Held JSA. Open up well. RIH with back off shot to 4810', but freed Gallup tubing high. Screw Gallup tubing back together again and tighten up. Land Gallup tubing donut. Unseat Dakota tubing and TOH with 162 joints 2-3/8" EUE tubing with turned down collars, total 4864'. ND offset spool and change out pipe rams. Unseat Gallup tubing and pick up on. Torque up Gallup tubing up tight. RU A-Plus wireline truck. RIH with 3-1/8" collar locator to find Gallup tubing collars at 4880' and 4849'. RIH down casing outside Gallup tubing with back off shot to 4849' and back off tubing. POH with wireline. NU tubing stripper head. TOH and LD Gallup tubing. Cutting 3/4" rods with hacksaw.

A - PLUS WELL SERVICE, INC.

**P.O. BOX 1979
FARMINGTON, NM 87499
505-325-2627 • FAX: 505-325-1211**

**Cross Timbers Operating Company
O.H. Randel #2
790' FSL & 1850' FWL Section 10, T-26-N, R-11-W
San Juan County, NM
Lease No. NM 03153, API No. 30-045-05903**

**February 26, 2001
Page 3 of 3**

Plug & Abandonment Report

Plugging Summary Continued:

- 02-05-01 Continued:** LD 50 joints and ran out of rods. Unable to get accurate count of rods stuck in tubing, approximately 60 rods. Continue to TOH and LD 35 joints 2-3/8" EUE tubing, total 85 joints today. Shut in well. SDFD.
- 02-06** Held JSA. Open well. Continue to TOH and LD Gallup tubing. Total of 163 joints 2-3/8" EUE tubing with turned down collars, 4831'. TIH with Dakota tubing and tag tubing stub at 4909'. Load hole with 18 bbls water and circulate hole clean with additional 7 bbls water. J. Morris with BLM, approved plug #2. Plug #2 with 39 sxs cement inside 7" casing from 4909' to 4707' to isolate the Gallup top and cover the tubing stubs. PUH above cement and WOC. Shut in well. SDFD.
- 02-07** Held JSA. Open up well. TIH and tag cement at 4814'. Load casing with 12 bbls water and attempt to pressure test, leaks. Plug #2a with 61 sxs cement with 2% CaCl₂ inside casing from 4814' to 4497' to recover the Gallup top. PUH above cement and WOC for 3 hours. TIH and tag cement at 4475'. Load casing with 6 bbls water and attempt to pressure test, leaks. LD 47 joints tubing; too windy to work. Shut in well. SDFD.
- 02-08** Held JSA. Open up well. Continue to TOH with 106 joints tubing. Perforate 2 HSC squeeze holes at 3258'. TIH and set 7" DHS retainer at 3186'. Pressure test tubing to 1000#, held OK. Sting out of retainer and load casing with 13 bbls water. Pressure test casing to 500# for 15 min, held OK. Sting into retainer and establish rate, 2 bpm at 700#. Plug #3 with retainer at 3186', mix 55 sxs cement, squeeze 26 sxs outside casing from 3258' to 3158' and leave 19 sxs inside casing to 3186' to cover Mesquite top. TOH with tubing. Perforate 2 HSC squeeze hole at 1745'. Load casing with water and establish rate into squeeze holes, 2-1/2 bpm at 500#. Too windy with blowing snow to work tubing. Shut in well. SDFD.
- 02-09** Held JSA. Open up well. Set 7" DHS retainer at 1692'. Sting out of retainer and load casing with 8 bbls water. Sung into retainer and establish rate into squeeze holes, 2-1/2 bpm at 500#. Plug #4 with retainer at 1692', mix 170 sxs cement, squeeze 91 sxs outside 4-1/2" casing from 1745' to 1390' and leave 79 sxs inside casing to cover the Fruitland and Pictured Cliffs tops. While pumping plug #4, fluid started to circulate out bradenhead. Perforate 2 HSC squeeze holes at 799'. Pump 6 bbls water down casing to establish circulation out bradenhead, 2 bpm at 300#. Dig out wellhead and repair broken nipple on wellhead. J. Morris with BLM, approved procedure change to combine Ojo Alamo and surface plugs. Plug #5 with 305 sxs cement from 799' to surface: started by pumping 165 sxs down the 4-1/2" casing, then lost circulation and it pressured up to 2000#, shut in casing; then mix and pump additional 140 sxs cement down the bradenhead, final pressure 1200#. Shut in well. SDFD.
- 02-13** Held JSA. Open up well. ND BOP and dig out wellhead. Cut off wellhead. Found cement at surface in both the 7" casing and the 9-5/8" annulus. Mix 15 sxs cement to install P&A marker. RD rig and equipment. MOL.
J. Morris with BLM, was on location.