

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.

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 #8

9. API Well No.

30-045-24788

10. Field and Pool, or Exploratory Area

West Kutz Pictured Cliffs  
Basin Dakota

11. County or Parish, State

San Juan NM

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 87401 324 1090

3b. PhoneNo. (include area code)

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

1,550' FNL & 1,520' FWL Sec 9, T 26 N, R 11 W

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

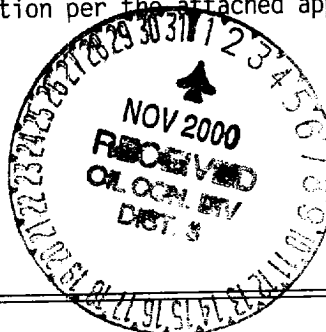
- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input checked="" type="checkbox"/> Recomplete     | <input type="checkbox"/> Other          |
| <input type="checkbox"/> Change Plans         | <input 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 approximated duration thereof. If the proposal is to deepen directionally or recompleate 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 recompletion 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 Timber proposes to re open and fracture stimulate the DK formation, in the following manner. TIH and drill out the cement plugs @ 2,530', 5,230' (Gallup) and DK CIBP @ 6,265'. CO to PBTD @ 6,332'.

Re perforate the Dakota formation fr/6,271'-77, 6,281'-85' & 6,298'-6,304' w/1 JSPF. Fracture stimulate the DK under a packer.

The DK formation will be downhole commingle with the PC formation per the attached approved downhole commingling application to the State of New Mexico.



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

Loren W Fothergill

Title

Production Engineer

Date 10/10/00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date OCT 30 2000

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.

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I

P.O. Box 1980, Hobbs NM 88241-1980

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

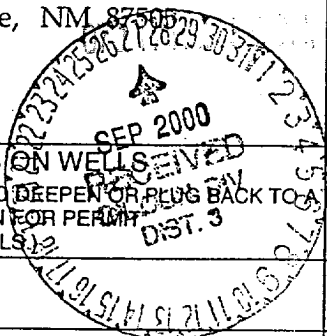
OIL CONSERVATION DIVISION

2040 Pacheco St.

Santa Fe, NM 87505

REC'D / SAN JUAN

OCT 10 2000



WELL API NO. 30-045-24788
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. NM 03153
7. Lease Name or Unit Agreement Name O.H. Randel
8. Well No. 8
9. Pool name or Wildcat West Kutz PC / Basin Dakota

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
2. Name of Operator Cross Timbers Operating Company	
3. Address of Operator 2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401	
4. Well Location Unit Letter <u>F</u> : <u>1,550</u> Feet From The <u>north</u> Line and <u>1,520</u> Feet From The <u>west</u> Line Section <u>9</u> Township <u>26 N</u> Range <u>11 W</u> NMPM San Juan County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 6,351' KB	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER: Downhole Commingle PC & DK ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Cross Timbers Operating company request permission to downhole commingle production from the Basin Dakota pool (71599) and West Kutz PC pool (79680). Both of these pools are included in NMOC pre approved pool combinations for downhole commingle the Pictured Cliffs & Dakota pools. The pools will be commingled as follows:

1. MIRU PU. TIH and drill out cement plug @ 2,530'.
2. Gallup cement plug @ 5,230' and DK CIBP @ 6,265'.
3. CO to PBTD @ 6,332'.
4. Re perforate the Dakota formation fr/6,271'-77, 6,281'-85' & 6,298'-6,304' w/1 JSPF.
5. Fracture stimulate the DK under a packer.
6. Downhole commingle PC and DK formations.

Attached is the information required to approve the downhole commingling application.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Loren W. Fethergill TITLE Production Engineer DATE 9/25/00

TYPE OR PRINT NAME

TELEPHONE NO.

(This space for State Use)

Original Signed by STEVEN M. HAYDEN

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

DEPUTY OIL & GAS INSPECTOR, DIST. 3

SEP 27 2000

**Attachment #1  
O.H. Randel #8  
Sec 9, T 26 N, R 11 W  
West Kutz Pictured Cliffs & Basin Dakota**

Additional information per Rule 303C(3)(b):

1. The fluids from both pools are compatible. These pools have been commingled together in the area without compatibility problems.
2. Basin Dakota Pool (71599) & West Kutz Pictured Cliffs Pool (79680)
3. Pictured Cliffs perforations are 1,718'-24'.  
Dakota perforations are 6,271'-6,304'.
4. DK: BHP 588 psig @ 6,230'. 04/07/81 Measured  
PC: BHP 168 psig @ 1,723'. 09/25/00 Calculated.
5. The proposed production allocation formula is based upon the subtraction method. The Pictured Cliffs production is to be based upon the attached decline curve. The Dakota Gas production is to be determined by subtracting the Pictured Cliffs production from the total gas production. If the Pictured Cliffs production, based upon the decline curve, is greater than the total production. All production will be allocated to the Pictured Cliffs pool. All oil production is to be allocated to the Dakota formation. The water production will be allocated in the same portion as the gas.
6. Downhole commingle will not reduce the value of the total remaining production.
7. Both working interest owners and royalty interest owners are the same.
8. Sundry Notice Form 3160-5 to the BLM is attached for your information.

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abandoned well. Use form 3160-3 (APD) for such proposals.***

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

***SUBMIT IN TRIPLICATE - Other instructions on reverse side.***

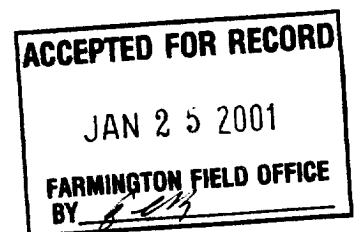
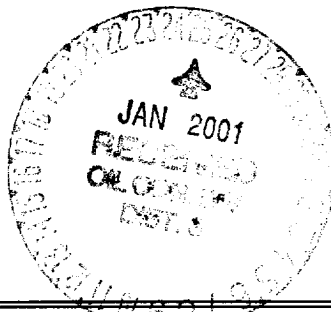
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well Other		5. Lease Serial No. NM 03153
2. Name of Operator CROSS TIMBERS OPERATING CO.		6. If Indian, Allottee or Tribe Name
3a. Address 2700 FARMINGTON AVE., BLDG K, SUITE 1 FARMINGTON, NM 87401	3b. Phone No. (include area code) 505.324.1090 Ext 4020	7. If Unit or CA/Agreement Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  1520FWL 1550FNL <i>F-09-26N-11W</i>		8. Well Name and No. O.H. RANDEL 8
		9. API Well No. 3004524788
		10. Field and Pool, or Exploratory Area BASIN DAKOTA
		11. County or Parish, and 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 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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
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Recompletion Report attached SUBMITTING ENGINEER: LOREN W. FOTHERGILLSUBMITTAL DATE: 1/16/01



Electronic Submission #2364 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 01/19/2001

Name (Printed/Typed) <b>HOLLY PERKINS</b>	Title <b>INFORMATION CONTACT</b>
Signature	Date <b>01/16/2001</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By _____	Title _____	Date _____
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 _____

## O.H. Randel #8

- 1/4/01: MIRU PU. TOH w/52 jts 2-3/8", J-55, 4.7#, EUE, 8rd tbg, SN & 1 jt 2-3/8" open ended MA. PU & talley in hole w/3-7/8" bit, 4 - 3-1/8" DC's, x-over & 57 jts tbg. Tagged PBTB @ 1,966' (1st cmt plug @ 2,530').
- 1/5/01: TIH & tagged fill @ 1,966'. CO fill to 1,978' (12' bridge). TIH w/tbg & tagged cmt plug @ 2,609'. Drilled out cmt plug fr/2,609' - 2,715' (106'). Circ well clean.
- 1/6/01: TIH & tagged cmt plug @ 5,296'. Est circ & drilled out plug to 5,406'.
- 1/7/01: Drilled out plug fr/5,406'-11', drlg hard w/metal returns. TOH w/164 jts 2-3/8" tbg, DC's, x-over & bit. Lost 3 cones off bit. RIH w/3-1/2" magnet on sand-line. Made 10 runs w/magnet & recovered 2-1/2 bit cones.
- 1/8/01: TIH w/3-7/8" blade mill, DC's, x-over & 142 jts 2-3/8" tbg. Hit tight spot in csg @ 4,696' (DV tool @ 4,609'). Milled out tight spot fr/4,696'-98' (1-1/2 hrs). TIH & tagged cmt @ 5,411'. Milled on cmt plug fr/5,411'-5,522', w/cmt returns.
- 1/9/01: Milled out cmt plug fr/5,522'-5,655'. TIH & tagged cmt @ 6,125'. Milled cmt to CIBP @ 6,265'. Milled out CIBP. TIH & tagged PBTB @ 6,332'. Circ wellbore clean. TOH w/tbg, DC's, x-over & blade mill.
- 1/10/01: MIRU WL. Ran GR/CCL fr/6,332'-6,000'. Re-perf'd DK fr/6,271'-77', 6,281'-85', 6,298'-6,304' w/3-1/8" gun w/16 gm chrgrs @ 1 JSPF (16' net pay, 0.37" dia holes). RDMO WL. PU & talley in hole w/199 jts 2-7/8", 6.5#, N-80, Buttress tbg, 3 jts 2-3/8", 4.7#, N-80, EUE, 8rd tbg & 4-1/2"x 2-3/8" Baker HD comp pkr. Set pkr @ 6,206' w/21K comp. MIRU Dowell. Pumped into DK perfs fr/6,271'-6,304' w/4% KCl. EIR @ 4.5 BPM & 450 psig. Acidized DK w/1,000 gals 15% NEFE HCl acid & 53 - 7/8" RCN ball sealers @ 6.5 BPM & 850 psig. ISIP 600 psig. 5" SIP vac. RDMO Dowell. Release packer & TIH w/5 jts tbg & knocked off balls. TOH & re-set pkr @ 6,008' w/25k comp.
- 1/11/01: MIRU Dowell. Frac'd DK perfs fr/6,271'-6,304' dwn 2-7/8" tbg w/59,623 gals Clear Frac, 70Q N2 foamed, 4% KCl water & 75,000# 20/40 Brady sd @ 20.2 BPM & 6,074 psig. ISIP 3,552 psig. 30 sec SIP 3,021 psig. 5" SIP 2,715 psig. 10" SIP 2,623 psig. 15" SIP 2,541 psig. RD frac crew. SITP 1,215 psig. OWU & start flowback @ 2:30 p.m. 6:30 a.m.: F. 0 BO, 0 BLW, FTP 210 psig, 1/8" ck.
- 1/12/01: Cont flowback: 10:00 a.m.: F. 0 BO, 0 BLW, FTP 15 psig, 1/4" ck. Release pkr. PU 10 jts 2-7/8" Buttress tbg & tagged sd fill @ 6,307' (btm perf 6,304'). TOH & LD 2-7/8" frac string & pkr. TIH w/2-3/8" NC, SN & 195 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg. CO sd fill to PBTB @ 6,332'. TOH w/4 jts tbg to 6,202'.
- 1/13/01: TIH & tagged fill @ 6,324' (8' fill). CO fill to 6,332'. Landed tbg as follows: NC, SN & 193 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg. EOT set @ 6,281'. SN set @ 6,280'. Swabbed 8 BLW, 4 runs. FFL @ SN.
- 1/14/01: Swabbed Tr BO, 8 BLW, 4 hrs (6 runs). Surging FTP 5-10 psig 5" after each run. No fluid entry, last run.
- 1/15/01: S. 10 BO, 15 BLW, FTP 5 psig, FCP 40 psig, 10 runs. FL @ 5,600'. F. 200 MCFPD, FTP 5 psig, FCP 20 psig, 1/2" ck, 3 hrs. SWI. RDMO PU.