(August 1999)

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: NM 03153

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☒ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: CROSS TIMBERS OPERATING CO.

8. Lease Name and Well No.: O.H. RANDEL 8

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

3a. Phone No. *(include area code)*: 505.324.1090 Ext 4020

9. API Well No.: 3004524788

10. Field and Pool, or Exploratory: BASIN DAKOTA

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At Surface: 1520FWL 1550FNL
At top prod. interval reported below
At total depth

11. Sec., T., R., M., on Block and Survey or Area: SENW 9 26N 11W NMP

12. County or Parish: SAN JUAN

13. State: NM

14. Date Spudded: 02/14/2081 (1981)

15. Date T.D. Reached: 02/22/2081

16. Date Completed ☐ D & A ☒ Ready to Prod. 01/10/2001

17. Elevations (DF, RKB, RT, GL)*: KB 6351

18. Total Depth: MD 6350 TVD

19. Plug Back T.D.: MD 6332 TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
D-A, DIL & FDC/CNL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	8.625 K-55	24.000		914		600		0	
7.875	4.500 K-55	11.000		6348	4609	1440		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	6281							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BASIN DAKOTA	6271	6304	6271 TO 6304			
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6271 TO 6304	70Q FOAM W/75,000 20/40 SD
6271 TO 6304	ACIDIZED W/1000 GAL 15% NEFE; FRAC W/59,623 GAL

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/10/2001	01/15/2001	3	→	10.0	25.0	15.0			OTHER

Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
1/2	SI 5	20.0	→	40	200	60		GSI

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #2367 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

RECOR

JAN 2 2001

OFFICE

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
FRUITLAND COAL	851	1475		OJO ALAMO	650
PICTURED CLIFFS	1476	1716		KIRTLAND	850
MESA VERDE	2033	2582		FRUITLAND	1475
MENEFEE	2583	3305		PICTURED CLIFFS	1716
DAKOTA	6181	6234		LEWIS	2032
				MESA VERDE	2582
				MENEFEE	3305
				POINT LOOKOUT	4185
				MANCOS	4520
				GALLUP	5279
				SANOSTEE	5784
				GREENHORN	6103
				GRANEROS	6180
				DAKOTA	6234

32. Additional remarks (include plugging procedure):
TESTS WITNESSED BY JEFF WOOLLEY SUBMITTING ENGINEER: LOREN W. FOTHERGILL SUBMITTAL DATE: 1/16/01

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #2367 Verified by the BLM Well Information System for CROSS TIMBERS OPERATING CO..
Sent to the Farmington Field Office.

Name *(please print)* HOLLY PERKINS **Title** *INFORMATION CONTACT*

Signature _____ Date 01/16/2001

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 fradulent statements or representations as to any matter within its jurisdiction.

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 PBTD @ 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 PBTD @ 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 chrgs @ 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 PBTD @ 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.