

DISTRICT I

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

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

Administrative ☐ Hearing ☐

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

CROSS TIMBERS OPERATING CO.

Operator

FLORANCE D LS

#12

Address

B SEC 19 T27N R08W SAN JUAN, NM.

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

OGRID NO. 167067 Property Code 022609 API NO. 3004506416

Spacing Unit Lease Types: (check 1 or more)
Federal ☒ State ☐ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	SOUTH BLANCO PICTURED CLIFFS 72439		BLANCO MESAVERDE 72319
2. Top and Bottom of Pay Section (Perforations)	2144' - 60' 2170' - 90'		4,412' - 4,578'
3. Type of production (Oil or Gas)	GAS	9-11-99 Rec'd. OGD	GAS
4. Method of Production (Flowing or Artificial Lift)	FLWG		FLWG
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) CALL 170 PSIA b. (Original) CALL 837 PSIA	a. b.	a. CALL 1032 PSIA b. CALL 931 PSIA
6. Oil Gravity (°API) or Gas BTU Content	1153		1289
7. Producing or Shut-In?	PRODUCING		SHOT IN
Production Marginal? (yes or no)	YES		YES
• If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: 1996 Rates: 11/2,300/0 (MONTH)
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 11-1998 Rates: 0/600/0 (MONTH)	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 0 % Gas: 22 %	Oil: % Gas: %	Oil: 100 % Gas: 78 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(L) Exceptions:

ORDER NO(S):

16. ATTACHMENTS:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of all offset operators.
- Notification list of working, overriding, and royalty interests for uncommon interest cases.
- Any additional statements, data, or documents required to support commingling.

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

SIGNATURE

Jeffery W. Patton

TITLE

DATE

1/15/99

TYPE OR PRINT NAME

JEFFERY W. PATTON

TELEPHONE NO. (505) 324-1090

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.

RECEIVED
BLM

FEB 19 1999 PM 2:42

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

5. Lease Serial No.

NM 03380

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Florance D LS #12

9. API Well No.

3004506416

10. Field and Pool, or Exploratory Area

Blanco Mesaverde
S. Blanco Pictured Cliffs

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 88401

3b. Phone No. (include area code)

505832011090

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

790' FNL & 1628' FEL Unit B, Sec 19, T27N, R08W

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 checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Downhole Commingle
	<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 hereby request approval to downhole commingle the above mentioned well per the attached procedure. The described work will start as soon as BLM & NMOCD approval is granted. The C-107 for approval has been filed with the state. A copy of the C-107 is included with this notice for your reference. If there are any questions of concern please call Cross Timbers Operating Co.

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

Title

Production Engineer

Date 1-15-99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

S/ Duane W. Spencer

Title

Date

FEB 10 1999

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)

NMOCD



Florance "D" LS #12

DHC the PC & MV WORKOVER PROCEDURE

WI – 100.0000%
NRI – 67.5000%

Casing: Surface: 10 3/4", 32.75# csg @ 174' KB.
Intermediate: 7 5/8", 26.4#, J-55 csg @ 2,327' KB.
Liner: 5 1/2", 15.50#, J-55 csg fr/2,274'-4,634' KB.
PBSD (drillers) 4,589' KB.

Perforations: **Pictured Cliffs** fr/2,144'-60', 2,170'-90'.
Mesaverde fr/4,412'-26' 4,436'-60', 4,478'-92', 4,502'-22',
4,530'-44' & 4,554'-78'. 2 JSPF.

Tubing: Dual Strings:
SS. 72 jts 1-1/4" siphon string tbg & perf sub. Tbg landed @
2,188'.
LS. 145 jts 2-3/8", 4.7#, J-55, EUE tbg, 3' x 2-3/8" perf sub &
tapped bullplug. Tbg landed @ 4,578'. Baker EGJ retrievable
packer @ 2,347'.

Current Status: PC side (csg) of well is flwg gas. Mesaverde side (tbg) of well is
dead.

Objective: Remove 1-1/4" siphon string & 2-3/8" tbg & packer. CO well to
PBSD. Run a through csg log. Evaluate the log for additional
pay. RWTP as a DHC.

1. Test anchors on location.
2. MIRU PU, pmp & pit. Fill pit w/2% KCl wtr. MI 4,600' of inspected and
press tstd yellow band 2-3/8" tbg. Check and record tubing, casing and
bradenhead pressures. Record production & pit tank gauges, if possible.
3. Blow down well and kill w/2% KCl wtr if necessary.
4. ND WH. NU and pressure test BOP's.
5. TOH & LD 1-1/4" siphon string tbg. Return 1-1/4" tbg to CTOC yard for
inventory & inspection. Notify Larry Babcock that tbg has come from the
Pictured Cliffs reservoir.
6. RU to pull 2-3/8" tbg. The Baker EGJ packer (@ 2,347' KB) is a compression
set packer with a straight pull to release. At 2,219' a tbg leak was repaired with
a 10' Otis double pack-off tbg patch. It is possible that the tbg will part while
trying to rel the packer. It will be necessary to ret the 10' Otis tbg patch prior
to removing the 2-3/8" tbg (in case tbg patch falls out of the parted tbg while
TOH). The tbg patch can be retrieved using a "standard" overshot & jars on
slickline or sandline. RIH w/an IB to verify fishing neck dimensions. Only the



top pack-off & 10' tube will come out of the hole on the first trip. Another trip will have to be made to ret the lower pack-off.

7. TOH & LD tbg. Tally tbg while TIH. If tbg parted, RU air/foam and wash-over pipe to rec packer and remaining tbg. Calculate amount of wash-over pipe required by subtracting the amount of pipe recovered from the depth of packer (2,337' FS).
8. Fish for packer and remaining tbg if required. TOH & LD packer & bad 2-3/8" tbg. Return bad 2-3/8" tbg to CTOC yard. Notify Larry Babcock that bad tbg (if any) is being returned from the Mesaverde side of the well.
9. PU & TIH w/4-3/4" cone bit, SN & 2-3/8" tbg. MI & PU good 2-3/8" tbg if needed to reach PBSD. Tally tbg while TIH. Tag for fill. CO fill (if any) w/air/foam unit to PBSD @ 4,589' KB. If possible use pmp bailer if there is not much fill.
10. Circ on bottom for a minimum of 1 hr using air/foam (if air/foam unit is used).
11. TOH. LD bit.
12. PU & TIH w/5-1/2" RBP, 5-1/2" TTS packer (in tandem), SN & 2-3/8" tbg. Set RBP @ $\pm 4,400'$ KB. PU & set TTS packer @ $\pm 2,350'$ KB. PT 5-1/2" csg to 500 psig for 5" w/2% KCl wtr. Use rig pmp if possible. If 5-1/2" csg tsts OK then TOH. LD 5-1/2" TTS packer. If csg does not tst, begin hunting for hole(s).
13. TIH w/retrieving tool, ± 69 jts (2,139') 2-3/8" tbg, 7-5/8" TTS packer, SN & 2-3/8" tbg back to surface. Set 7-5/8" TTS packer just above the top of the PC perfs @ $\pm 2,125'$ KB. PT the TCA to 500 psig. Rel the TTS packer & TIH to just below PC perfs @ $\pm 2,215'$ KB. PT TOL to 500 psig (positive) for 5" w/2% KCl wtr. RU swab. Swab tbg dwn to tst (negative) TOL. Report to CTOC office if TOL does not tst. A squeeze procedure will be written if TOL or csg did not pass PT.
14. Rel TTS packer & TIH to catch RBP. Rel RBP & TOH. LD TTS packer & RBP.
15. MIRU Blue Jet WL. RIH w/GR, CCL & CBL fr/4,589'-3,400'. RIH w/Neutron Ratio Gas Spectrum Log. Run log fr/4,400'-3,400'. RDMO Blue Jet WL.
16. TIH w/mule shoe collar, SN & ± 148 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg. Tally tbg while TIH & tag for fill. CO fill to PBSD (4,589' KB) if required. PU & LD 3 jts tbg. Land end of mule shoe @ 4,495' KB (mid-perf).



17. ND BOP. NU WH. RU swab. Swab well to pit. Gauge production. Once well can produce & stay unloaded, RWTP dwn sales. Sell gas through MV separator & mtr run (mtr #72304). Have RTU repr'd, tested & calibrated (if needed) before placing back into service.
18. RDMO PU. RU SU if necessary.
19. Notify Vern Thomas & EPFS that the PC mtr run (mtr #74718) & RTU (#295) can be removed and returned to CTOC for salvage.

Approvals: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

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 3b. Phone No. (include area code)
2700 Farmington Ave., Bldg. K, Ste 1 Farmington, NM 58324 505-832-4110

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

790' FNL & 1628' FEL Unit B, Sec 19, T27N, R08W

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☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
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