

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau 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

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

3b. Phone No. (include area code)

NM 87401

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

1,230' FNL & 865' FWL Sec 18, T27N, R08W

99 MAY 27 PM 12:42

070 FARMINGTON, NM

RECEIVED  
JUN - 9 1999

OIL CON. DIV.  
DIST. 3

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

8. Well Name and No.

Florance LS #4A

9. API Well No.

3004526591

10. Field and Pool, or Exploratory Area

Blanco Mesaverde  
Otero Chacra

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 checked="" type="checkbox"/> Other <u>DHC</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Workover approval</u>
	<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 Operating Co is requesting operational approval to DHC the above mentioned well. A copy of the procedure has been enclosed for your review and approval. Cross Timbers would like to begin this workover as soon as approval is granted. Please feel free to contact Cross Timbers Operating if there are any questions concerning this procedure.

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

Jeffery W. Patton

Title

Production Engineer

Date

5/25/99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ Duane W. Spencer

Title

Team Lead, Petroleum Assets

Date

JUN - 7 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)

NMOC



Chacra
WI – 100.0000%
NRI – 67.5000%
Mesaverde
WI – 50.03420%
NRI – 33.77310%

## Florance LS #4A

*DHC the MV & Chacra WORKOVER PROCEDURE*

**Casing:** Surface: 9-5/8", 36.0# csg @ 299' KB.  
Intermediate: 7", 23.0#, K-55 csg @ 3,564' KB.  
Liner: 4-1/2", 10.50#, K-55 liner fr/3,408'-4,735' KB.  
PBTD 4,730' KB.

**Perforations:** Chacra fr/3,055'-58', 3,082'-86', 3,202'-06', 3,210'-18' & 3,220'-25' (2 JSPF, 48 holes).  
Mesaverde fr/4,394'-97', 4,405'-30', 4,446'-54', 4,462'-68', 4,472'-77', 4,516'-18', 4,533'-36', 4,688'-93' & 4,700'-03' (1 JSPF, 60 holes).

**Tubing:** Dual Strings:  
SS. 96 jts 1-1/4", 2.4#, J-55, EUE, 10rd siphon string tbg, SN, 1 jt 1-1/4" & muleshoe. Tbg landed @ 3,261'.  
LS. ±100 jts 2-3/8", 4.7#, J-55, EUE tbg, 12 rubber blast jts (across fr/Chacra perfs), seal assy & 38 jts 2-3/8", 4.7#, J-55, EUE tbg, SN, 1 jt 2-3/8" tbg & muleshoe. Landed EOT @ 4,487' KB. Conflicting tbg tally reports in wellfile.  
Production Pkr Baker Model "D" packer @ 3,395' KB.

**Current Status:** MV currently flwg @ 53 MCFPD & 149 psig.  
Chacra currently flwg @ 30 MCFPD & 240 psig.

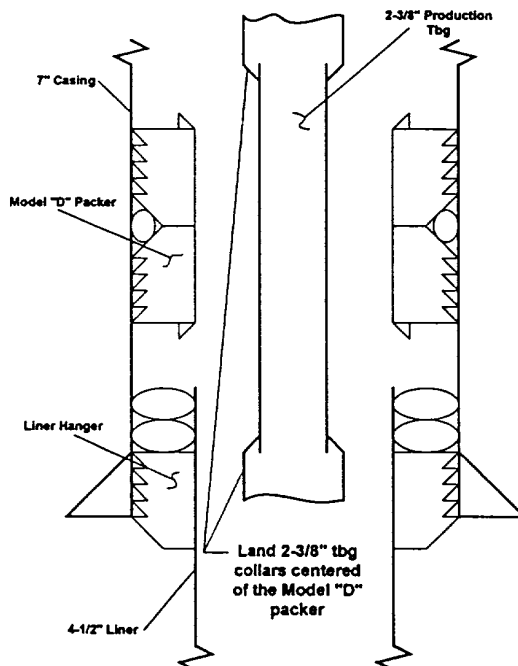
**Objective:** Remove 1-1/4" siphon string & 2-3/8" tbg & seal assy. CO well to PBTD. RWTP as a DHC.

**Special Equipment:** *Slip grip elevators may be required to trip 2-3/8" tbg below packer.*

1. Test anchors on location.
2. MIRU WL. RIH (dwn 2-3/8" MV tbg) w/1.75" sinker bar. Tag for fill (PBTD @ 4,730'). RIH w/1.901" gauge ring to EOT (4,549'), if possible. Check ID of blast jts across fr/Chacra perfs. Check for SN. ID of seal assy unknown. Notify Dusty Mecham w/CTOC of PBTD. RDMO WL.
3. MIRU PU. MI ±10 jts of inspected, yellow band, 2-3/8" tbg. Check and record tubing, casing and bradenhead pressures. Record production & pit tank gauges, if possible.
4. Blow down well and kill w/2% KCl wtr if necessary.
5. ND WH. NU and pressure test BOP's.



6. 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 Chacra reservoir. *DO NOT LD 1-1/4" TBG IF CO IS REQUIRED.*
7. TOH w/2-3/8" tbg. Switch to slip grip elevators if required. Tally & inspect tbg while TOH. LD seal assy. Double check OD of tbg collars below seal assy.
8. Replace bad tbg as needed. Replace blast jts w/regular tbg as needed. Replace seal assy w/1 jt 2-3/8" tbg w/special clearance collars. Return bad 2-3/8" tbg to CTOC yard. Notify Larry Babcock that bad tbg is being returned from the Mesaverde side of the well.
9. If CO is required, MIRU air/foam unit. TIH w/45 jts (1,400') 1-1/4" tbg, XO & 2-3/8" tbg back to surface. CO sd fill w/air/foam to PBTD (4,730').
10. Circ on bottom for a minimum of 1 hr. RDMO air/foam unit.
11. TOH. Stand back 2-3/8" tbg. LD all 1-1/4" tbg and return to CTOC yard as described in step 6.
12. TIH w/mule shoe collar, SN & ±146 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg. Re-run the same jts of tbg that were below the seal assy. Check collar clearance while TIH. Replace collars as required. Re-run blast jts if possible. Land end of mule shoe @ ±4,549' KB. If possible, land the tbg so the model "D" pkr is centered between the tbg collars. Land blast jts across fr/Chacra perfs.





13. 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 #95755). Notify Vern Thomas that RTU & mtr will be used for both MV & Chacra production. Adjust orifice plate accordingly.
14. RDMO PU. RU SU if necessary.
15. Notify Vern Thomas & EPFS that the Chacra mtr run (mtr #95754) & RTU (#1616) can be removed and returned to CTOC for salvage. Remove and return Chacra production equipment (if any) to CTOC yard for salvage.

Approvals:  5/10/99

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# FLORANCE LS #4A WELLBORE DIAGRAM

12-1/4" HOLE

KB: 6,071'  
GL: 6,058'  
CORR: 13'

9 5/8", 36#, K-55 CSG @ 299'. CMTD w/  
250 SX CL "B" w/2% CACL2 & 0.25#/SX  
CELLOFLAKES. CMT CIRC TO SURF.

8-3/4" HOLE

SQZ HOLES @ 380', CMT SQZD w/150  
SX CMT TO SHUT OFF LEAK TO SURF  
CSG, CMT CIRC TO SURF.

96 JTS 1-1/4" TBG,  
SN, 1 JT 1-1/4" &  
MULESHOE. EOT  
3,260'

ORIGINAL TOC 775' FS (BY TS IN '86) &  
420' FS (BY CBL IN '92).

DV TOOL @ 1,392'.

CHACRA PERFS @ 3,055'-58',  
3,082'-86', 3,202'-06', 3,210'-18' &  
3,220'-25' (2 SPF, 48 HOLES).

BAKER MODEL "D"  
PKR @ 3,395'

4-1/2" LINER TOP @  
3,408', CMT TO TOP  
OF LINER

7", 23#, K-55 CSG @ 3,564'. DV TOOL @  
1,392'. CMTD 1ST STAGE w/115 SX 65/35  
CL "B"/POZMIX w/6% GEL, 2% CACL2 &  
0.25#/SX CELLOFLAKES FOLLOWED BY  
125 SX CL "B" w/2% CACL2 & 0.25#/SX  
CELLOFLAKES. CIRC NO CMT TO DV  
TOOL. CMTD 2ND STAGE w/150 SX 65/  
35 CL "B"/POZMIX w/6% GEL, 2% CACL2 &  
0.25#/SX CELLOFLAKES FOLLOWED BY  
150 SX CL "B" w/2% CACL2 & 0.25#/SX  
CELLOFLAKES.

6-1/4" HOLE

100 JTS 2-3/8" TBG, 12  
BLAST JTS (ACROSS FR/  
CHACRA PERFS), SEAL  
ASSY, 38 JTS 2-3/8" TBG,  
SN, 1 JT 2-3/8" TBG &  
MULESHOE. EOT @  
4,487'

MESA VERDE PERFS @ 4,394'-  
97', 4,405'-30', 4,446'-54', 4,462'-  
68', 4,472'-77', 4,516'-18', 4,533'-  
36', 4,688'-93' & 4,700'-03' (1 SPF,  
60 HOLES).

4-1/2", 10.5#, K-55 LINER FR/3,408'-4,736' (1,327').  
CMTD w/150 SX 65/35 CL "B"/POZMIX w/0.6% FL-  
19 FLA & 150SX CL "B" w/0.6% D-19. CIRC 40 SX  
OVER TOP OF LINER.

PBTD @ 4,730'  
TD @ 4,736'

## DATA:

LOCATION: 1,230' FNL & 865' FWL, SEC. 18, T27N R8W

COUNTY/STATE: SAN JUAN, NM

FIELDS: OTERO CHACRA & BLANCO MESAVERDE OGRID#: PROPERTY CODE:

API #: 30-045-26591 CTOC ACCTG #: 70311 (MV) & 70312 (CH) NM LEASE NO: NM-03380

FORMATIONS: CHACRAMESAVERDE

SPUD DATE: 1/14/86 COMPLETION DATE: 3/6/86

IPF (MESA VERDE): 1,949 MCF (2,079 MCFPD CAOF), FTP 130 PSIG, 3/4" CK, 3 HRS. SITP 482  
PSIG (7 DAYS).

(CHACRA): 1,721 MCF (2,437 MCFPD CAOF), FTP 114 PSIG, SICP 418 PSIG, 3/4" CK, 3 HRS. SITP 482  
PSIG (7 DAYS).

PRODUCTION METHOD: FLOWING  
TUBING STRINGS: (CHACRA) 96 JTS 1-1/4", 2.4#, J-55, EUE, 10rd TBG, SN, 1 JT 1-1/4" TBG &  
MULE SHOE. EOT LANDED @ 3,261' KB.

(MESAVERDE) 100 JTS 2-3/8", 4.7#, J-55, EUE, 8rd TBG, SN, 1 JT 2-3/8" TBG &  
96' & 3,195'-3,234', SEAL ASSY, 38 JTS 2-3/8", 4.7#, J-55, EUE, 8rd TBG, SN, 1 JT 2-3/8" TBG &  
MULESHOE. EOT LANDED @ 4,487' KB. CONFLICTING TBG TALLY REPORTS IN WELLFILE.

BAKER MODEL "D" PRODUCTION PACKER @ 3,395' KB.  
PERFS: (CHACRA) 3,055'-58', 3,082'-86', 3,202'-06', 3,210'-18', 3,220'-25' w/2 SPF (48 HOLES).  
(MESAVERDE) 4,394'-97', 4,405'-30', 4,446'-54', 4,462'-68', 4,472'-77', 4,516'-18', 4,533'-36', 4,688'-  
93' & 4,700'-03' w/1 SPF (60 HOLES).

## HISTORY:

1/14/86: TENNECO SPUDDED WELL w/FOUR CORNERS DR/LG RIG #8. ELEV @ 6,058'. KB @  
6,071'.

1/14/86: DR/LD 12-1/4" HOLE & SET 9-5/8", 36#, K-55 CSG @ 299'. CMTD w/250 SX CL "B" w/2%  
CACL2 & 0.25#/SX CELLOFLAKES. CMT CIRC TO SURF.

1/17/86: DR/LD 8-3/4" HOLE TO 3,565'.

1/18/86: SET 7", 23#, K-55 CSG @ 3,564'. DV TOOL @ 1,392'. CMTD 1ST STAGE w/115 SX  
65/35 CL "B"/POZMIX w/6% GEL, 2% CACL2 & 0.25#/SX CELLOFLAKES FOLLOWED BY 125 SX  
CL "B" w/2% CACL2 & 0.25#/SX CELLOFLAKES. DID NOT CIRC CMT TO DV TOOL. CMTD 2ND  
STAGE w/150 SX 65/35 CL "B"/POZMIX w/6% GEL, 2% CACL2 & 0.25#/SX CELLOFLAKES  
FOLLOWED BY 150 SX CL "B" w/2% CACL2 & 0.25#/SX CELLOFLAKES.

1/19/86: TOC @ 775' FS BY TEMP SVY. DO DV TOOL & SHOE. RU FOR AIR DR/LG.

1/20/86: DR/LD 6-1/4" HOLE w/AIR TO TD 4,736'. RAN CDL-CNL-DILL & GR LOGS & SET 4-1/2",  
10.5#, K-55 LINER FR/3,408'-4,736' (1,327'). CMTD w/150 SX 65/35 CL "B"/POZMIX w/0.6% FL-19  
FLA FOLLOWED BY 150 SX CL "B" w/0.6% D-19. CIRC 40 SX CMT OVER LINER TOP.

02/04/86: CO TO PBTD 4,730'. TSTD 7" CSG & 4-1/2" LINER TO 3,500 PSIG OK. CIRC w/1% KCI  
WTR. SPOTTED 500 GALS 7.5% HCL ACID @ 4,703'.

02/05/86: RAN GR-CCL LOG FR/PBTD TO 4,300'. RAN GR-CCL-CBL LOG FRA/LINER TOP @  
3,408'-2,700'. PERFED MESA VERDE 4,394'-97', 4,405'-30', 4,446'-54', 4,462'-68', 4,472'-77', 4,516'-  
18', 4,533'-36', 4,688'-93' & 4,700'-03' w/1 SPF (60 HOLES). ACIDIZED w/1,200 GALS 15% HCL  
ACID & 90 BS @ 42 BPM & 950 PSIG. BALLED OUT. MADE JB RUN ON WL TO KNOCK OFF &  
RETRIEVE BS. SAND FRAC w/140,250 GALS KCL WTR & 150,000# 20/40 SD @ 96 BPM & 1,550