

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

WELL API NO.

30-045-06175

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

E - 2592 - 2

7. Lease Name or Unit Agreement Name

Cuccia State LS

8. Well No.

#2

9. Pool name or Wildcat

S. Blanco Pictured Cliffs

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 ☐

GAS
WELL ☒

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 D : 965 Feet From The North Line and 800 Feet From The West Line

Section 32 Township 27N Range 08W NMPM San Juan County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

6,257' GL

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: Re-frac PC & PWOP ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

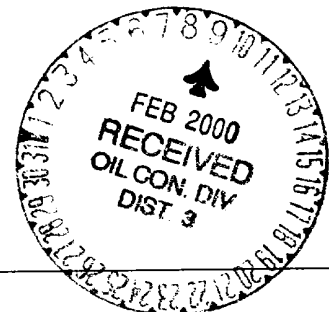
PLUG AND ABANDONMENT ☐

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 hereby request approval to re-stimulate the exsisting Pictured Cliffs perforations and prior to returning the well to production put the well on rod pump. A copy of the procedure is enclosed for your review. This project will began 30 to 60 days after approval is obtained.



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

SIGNATURE

TITLE Production Engineer

DATE 2/8/00

TYPE OR PRINT NAME Jeffrey W. Patton

TELEPHONE NO. 324-1090

(This space for State Use)

ORIGINAL SIGNED BY CHARLIE T. PERPIN

DEPUTY OIL & GAS INSPECTOR, DIST. #

FEB 9 2000

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



Cuccia State Com #2

RE-FRAC & INSTALLATION OF ROD PUMP WORKOVER PROCEDURE

Casing: 8-5/8", 28.5#, J-55, STC csg @ 131'.
Production Casing: 5-1/2", 15.5#, J-55, STC csg @ 2,294'. PBTD @ 2,240' KB.
Perforations: Pictured Cliffs fr/2,200'-05' & 2,219'-27' KB (4 JSPF).
Tubing: 106 jts 1-1/4", 2.3#, Grd B tbg. Landed EOT @ 2,232' KB.
Current Status: Flowing gas well.
Objective: Re-frac the PC & PWOP.

1. MI & set used Alten C40-70-42 ppg unit w/Arrow C-46 gas engine (fr/CTOC stock).
2. MIRU PU. Check and record tubing, casing and bradenhead pressures. Gauge & record pit tnk volume.
3. MI ± 75 jts ($\pm 2,325'$) 2-3/8", 4.7#, J-55, EUE, 8rd Y/B tbg. MI assorted 2-3/8" tbg subs. MI pmp & pit. Fill pit w/clean 2% KCl wtr. MI two (2) 400 bbl upright frac tnks. Fill tnks w/ ± 600 bbls (total) 2% KCl wtr. Heat tnks to 80-90° F the night before the frac, if necessary.
4. Blow down well and kill w/2% KCl wtr as required.
5. ND WH. NU and pressure test BOP's.
6. PU 1-1/4" x 2-3/8" XO & 1 jt 2-3/8" tbg. Tag for fill. PBTD @ 2,240' KB.
7. TOH. LD XO & 2-3/8" tbg. Tally & LD all 1-1/4" tbg. Return 1-1/4" tbg CTOC yard for inspection.
8. PU & TIH w/5-1/2" csg scraper & 2-3/8" tbg to PBTD (or top of fill). TOH & LD scraper. Use 2% KCl wtr to kill well as required.
9. PU & TIH w/5-1/2" staddle pkr ass'bly & 2-3/8" tbg to btm perf (@ 2,227'). Space pkr elements 10' apart. Acidize perms fr/2,219'-27' w/300 gals 15% HCl acid & perms fr/2,200'-05' w/200 gals 15% HCl acid. Use RFC control vlv as required. Use correct inhibitors, surfactants & iron control additives for well conditions. Flush acid w/2% KCl wtr. TOH w/tbg & pkr ass'bly.
10. MI ± 75 jts 2-7/8", 6.5#, N-80 frac string (fr/CTOC yard). PU & TIH w/5-1/2" tension set pkr & 2-7/8" frac string. Set pkr @ $\pm 2,100'$. Load tbg/csg annulus w/2% KCl wtr. Leave TCA vlvs open during frac.



11. MIRU frac crew. Re-frac the PC dwn 2-7/8" tbg @ 25 BPM w/38,000 gals 70Q, 20# linear gel foam containing 5-7 gals/M foamer, 1 gals/M surfactant & the appropriate breakers for well conditions. Prop the frac w/80,000# 20/40 mesh Arizona sd & 20,000# 20/40 mesh Super LC (or equivalent) RCP w/activator. A min. of 12,600 gals of wtr is required for the frac.

Stage	Stg Volume (foam)	Sd conc (dwnhole)	Fluid	Prop Vol (stg)	Prop Vol (cum)
Pad	6,000 gals		70Q 20# linear gel		
1# Stg	3,000 gals	1 ppg	70Q 20# linear gel	3,000#	3,000#
2# Stg	5,000 gals	2 ppg	70Q 20# linear gel	10,000#	13,000#
3# Stg	15,000 gals	3 ppg	70Q 20# linear gel	45,000#	58,000#
4# Stg	10,500 gals	4 ppg	70Q 20# linear gel	42,000#	100,000#
Flush	±730 gals		20# linear gel wtr		

Record ISIP, 5", 10" & 15" SIP's. SWI for 4 hr (to allow activator to cure sd). RU flowback line. OWU on 1/4" ck. Flow well until dead. Record pressures hourly. Do not get real aggressive during flowback. Load wtr will be recovered by rod pmp.

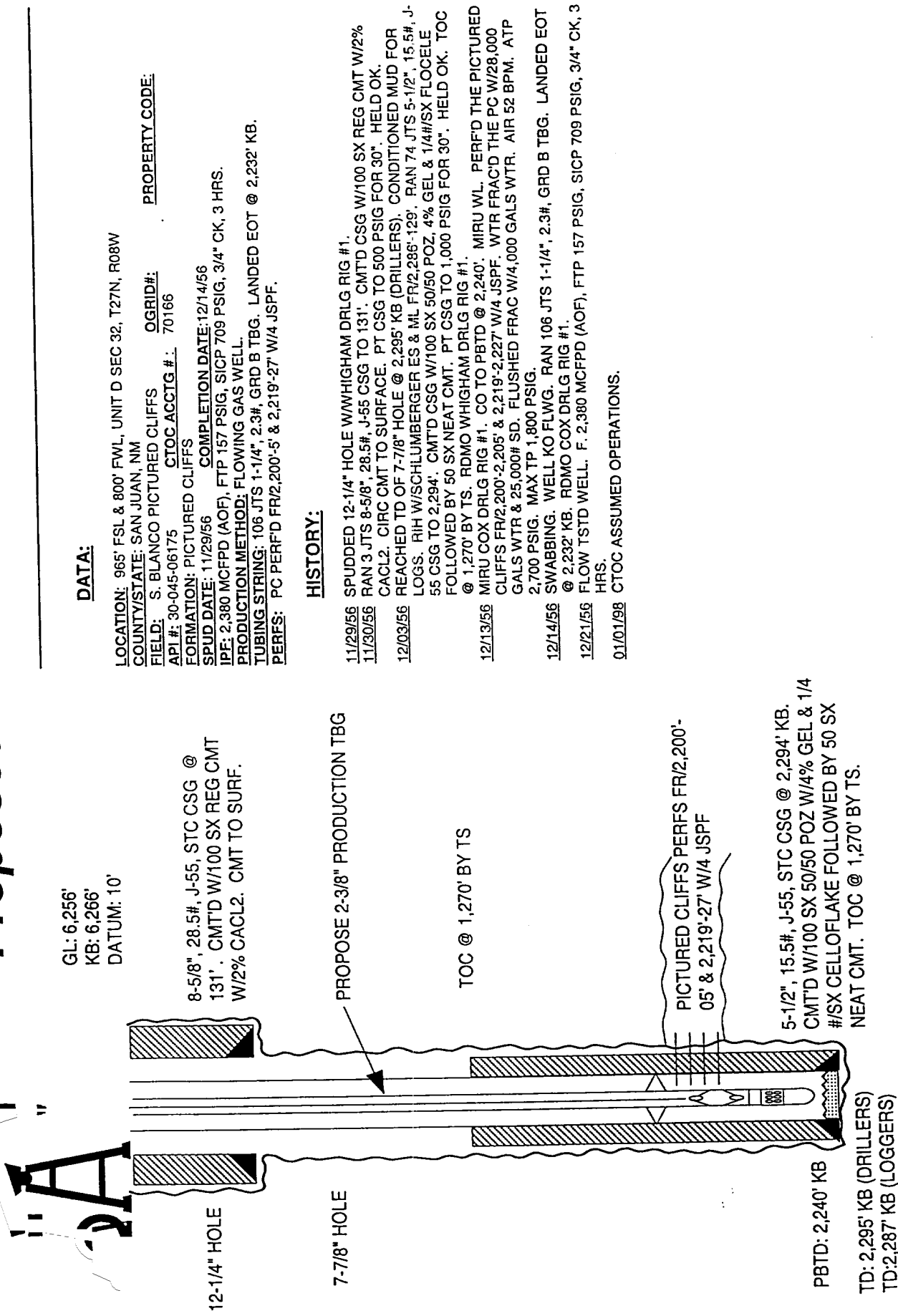
12. Rel pkr & TOH. LD pkr & 2-7/8" frac string. Return frac string to CTOC yard.
13. PU & TIH w/pmp bailer & 2-3/8" tbg. CO fill to PBTD (@ 2,240' KB). Use 2% KCl wtr.
14. PU & TIH w/2-7/8" x 12' OPMA, API SN, ±71 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg. Land tbg as close to btm as possible. Use 2-3/8" tbg subs as needed to land tbg.
15. ND BOP. NU WH. Contact WSI or Wood Group if WH needs to be modified or replaced for a ppg unit.
16. PU & RIH w/1" x 1' strainer nipple, 2" x 1-1/2" x 8' RWAC-Z pmp (+0.001 CN barrel, -0.003 SM 2' plngr, cup wipers), 3/4" RHBO bx, 2" spiral rod guide, 1" x 1' lift sub, ±89 – 3/4" Grade "D" rods w/T cplgs & 1-1/4" x 16' PR w/8' liner. Use 3/4" pony rods as required to space out pmp.
17. Install stuffing bx & ppg tee. HWO.
18. Load tbg & check pmp action w/ppg unit.
19. RDMO PU.



20. RWTP ppg @ 5.5-6.0 SPM x 42" SL (or longest hole). Re-sheave ppg unit if needed.

Approvals:  1/4/00

Proposed



DATA:

LOCATION: 965' FSL & 800' FWL, UNIT D SEC 32, T27N, R08W
COUNTY/STATE: SAN JUAN, NM
FIELD: S. BLANCO PICTURED CLIFFS OGRID#:
API #1: 30-045-06175 CTOC ACCTG #: 70166
FORMATION: PICTURED CLIFFS COMPLETION DATE: 12/14/56
IPE: 2,380 MCFPD (AOF), FTP 157 PSIG, SICP 709 PSIG, 3/4" C
PRODUCTION METHOD: FLOWING GAS WELL.
TUBING STRING: 106 JTS 1-1/4", 2.3#, 3 GRD B TBG. LANDED E
PERFS: PC PERFD FR/2,200'-5" & 2,219'-27" W/4 JSPF.

HISTORY:

11/29/56
11/30/56
SPUDED 12-1/4" HOLE W/WHIGHAM DRLG RIG #1.
RAN 3 JTS 8-5/8", 28.5#, J-55 CSG TO 131". CMTD CSG W/100 SX REG CMT W/2%
CACL2. CIRC CMT TO SURFACE. PT CSG TO 500 PSIG FOR 30". HELD OK.
REACHED TO OF 7-7/8" HOLE @ 2,295' KB (DRILLERS). CONDITIONED MUD FOR
LOGS. RH W/SCHLUMBERGER ES & ML FR/2,286'-129". RAN 74 JTS 5-1/2", 15.5#, J-
55 CSG TO 2,294". CMTD CSG W/100 SX 50/50 POZ, 4% GEL & 1/4"/SX FLOCE#
FOLLOWED BY 50 SX NEAT CMT. PT CSG TO 1,000 PSIG FOR 30". HELD OK. TOC
@ 1,270' BY TS. RDMO WHIGHAM DRLG RIG #1.
12/13/56
12/13/56
MIRU CO DRLG RIG #1. CO TO PBTD @ 2,240". MIRU WL. PERFD THE PICTURED
CLIFFS FR/2,200'-2,205' & 2,219'-2,227' W/4 JSPF. WTR FRACD THE PC W/28,000
GALS WTR & 25,000# SD. FLUSHED FRAC W/4,000 GALS WTR. AIR 52 BPM. ATP
2,700 PSIG. MAX TP 1,800 PSIG.
12/14/56
12/14/56
SWABBING. WELL KO FLWG. RAN 106 JTS 1-1/4", 2.3#, GRD B TBG. LANDED EOT
@ 2,232' KB. RDMO CO DRLG RIG #1.
12/21/56
12/21/56
FLOW TSTD WELL. F. 2,380 MCFFD (AOF), FTP 157 PSIG, SICP 709 PSIG, 3/4" CK, 3
HRS.
01/01/98
01/01/98
CTOC ASSUMED OPERATIONS.