

OCT 01 2007

Submit 3 Copies To Appropriate District

State of New Mexico

OCD-ARTESIA

Form C-103

May 27, 2004

Office

Energy, Minerals and Natural Resources

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM

87505

**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO.	015-23522
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	-
7. Lease Name or Unit Agreement Name Cavalier	
8. Well Number	1
9. OGRID Number	012361
10. Pool name or Wildcat S. Culebra Bluff Bone Springs	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3086 RKB	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____	
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

## 12. 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 ☐ MULTIPLE COMPL ☐

OTHER: ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐

OTHER: ☐

13. 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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

\* 100' cmt Plug R DVTOL - WOC TAG.

- \* 1. Circ hole with plug mud.  
 \* 2. Cut 7 5/8" casing at 4000' & POOH. \* 100' cmt CSG. Stuck Plug. WOC - TAG  
 3. Pump 100' cmt plug from 2450'-2350' - TAG  
 4. Pump 100' cmt plug from 502'-402' - TAG.  
 5. Pump 40" cmt plug from 40' surface. \* - 60' - surface.  
 6. Cut pipe 4' below GL & cap

Wellbore diagram is attached.

\* P/A Marker Above Ground. 4" x 4"  
(Rule 4201)

Approximate starting date: 11/15/07

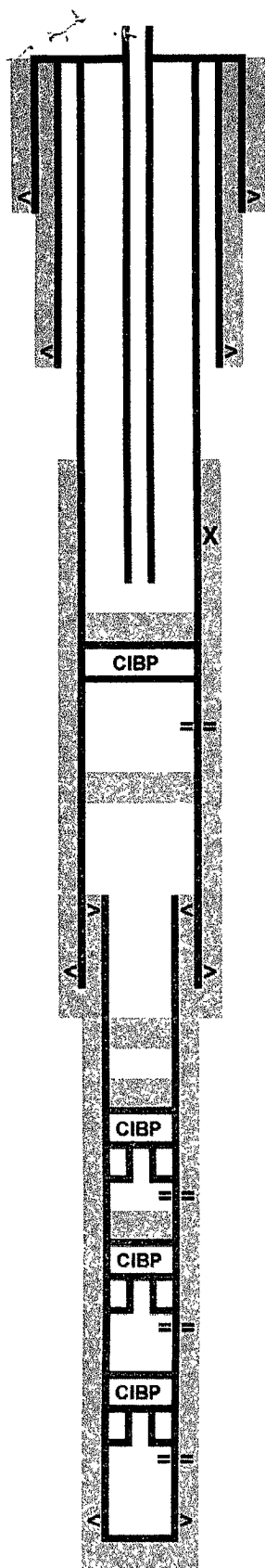
I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Charlotte Van Valkenburg TITLE Technical Coordinator DATE 9/26/07Type or print name Charlotte Van Valkenburg E-mail address: Charlotv@KFOC.net Telephone No. 918-491-4314

For State Use Only

APPROVED BY: Phil Haden TITLE Compliance Officer DATE 10/17/07

Conditions of Approval (if any):



2 7/8" tbg 7654'

16" 65# H40 at 452'  
w/ 600 sx, TOC Surf

10-3/4" 45.5# @ 2400'  
w/ 2100 sx, TOC Surf

2-7/8" tbg @ 8079'

TOC 4200' TS

DV tool @ 5286'  
cmt'd w/ 1250 sx

20' cmt on top  
CIBP at 7740'

Bone Sprg pfs 7842-94'

Cmt plug 9350-450'

TOL at 10365'

7-5/8" 29.7/33.7# N80/S95  
@ 10601' w/ 1400 sx

Cmt plug 11240-340'

CIBP 12217' w/ 35 sx  
cmt on top

Otis Uni 6 pkr 12248'  
Morw pfs 12387-97'

CIBP 12450' w/ 11.6' cmt

Otis WB pkr 12488'  
Morw pfs 12504-530'

CIBP 12600'

Otis WB pkr 12610'  
Morw pfs 12694-850'

5" 18# N80 liner @ 10365'-  
12945' w/ 350 sx  
TD 12950'

# WELL BORE DIAGRAM - 06/16/06

CAVALIER #1  
SEC 28-23S-28E  
3210' FSL & 1650' FEL  
EDDY CO., NM.

Elev: GL 3054'; KB 3086'

SPUD: 12/20/80 Completed 1/82

## Completion

Set pkr @ 12610', perf Morrow 12832-50' & 12694-701', 1 JSPF  
treat w/ 3500 gal methanol w/ 1000 SCF/B of N<sub>2</sub>, swb & flw  
106 BLW w/ 1' gas flare  
Acidize w/ 2500 gal 7-1/2%, 5000 gal 3% HF-12% HCl &  
4000 gal 3% HCl w/ 1000 SCF/B N<sub>2</sub>  
Swb 20 BW over load, set CIBP @ 12600' w/ 12' cmt on top

Set pkr @ 12305', perf Morrow 12387-97', 12467-84' &  
12500-30' w/ 29 holes O/A, swb dwn, Acidize w/ 1500 gal  
7-1/2% w/ 1000 SCF/B N<sub>2</sub>, swb wtr, squeeze cmt perfs  
12467-530', drill out cmt, re-perf 12504-30', Acidize w/ 5000  
gal 7-1/2% HCl w/ 1000 SCF/B N<sub>2</sub>,  
Flw 206 MCFD w/ 5 BWPH, set CIBP @ 12450' w/ 12' cmt

Set pkr @ 12248' to test perfs 12387-97', Acidize w/ 1500 gal  
7-1/2% HCl w/ 500 SCF/B N<sub>2</sub>, POL  
In 6 years total recovery was 23 MMCF

## WO: 03/90: OPEN MIDDLE BONE SPRINGS

Rel from On/off tool on Uni-6 pkr. Set CIBP at 12,217' w/ 35 sxs cmt  
Set 25 sx cmt plug at 11,340'  
Set 25 sx cmt plug at 9,450'  
PF: BONE SPRINGS: 7842'-65' (1spf - 24 holes) 7881'-94' (1spf - 14 holes)  
Acid w/ 3500 gal 15% NEFE + BS  
Acid frac w/ 12000 gal gelled acid 200HT  
Acid w/ 6000 gal 5% NEFE + N<sub>2</sub>

## WO: 09/90: FRAC BONE SPRINGS

Frac w/ 33,000 gal 30Q TerraFrac T4 + 74000# 20/40 sd via 2 7/8" tbg  
AIR 14 BPM, ATP 4500#, ISIP 2030#, 15" SIP 1800#  
30 BO, 18 BW

## WO: 06/04: MIT TEST

Set CIBP at 7740' w/ 20' cmt on top, RIH w/ 2 7/8" tbg. MA at 7654'  
SN at 7623'. Test to 550# OK.