

Submit 3 Copies To Appropriate District  
Office  
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

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
May 27, 2004

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

WELL API NO.	30-025-11162
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input type="checkbox"/> <b>FED</b> <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.	NM 12612

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)		7. Lease Name or Unit Agreement Name
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> <b>Injector</b> <input checked="" type="checkbox"/>		NM 70926X
2. Name of Operator		8. Well Number Cooper Jal Unit 220 w
SDG Resources L. P.		9. OGRID Number 193003
3. Address of Operator		10. Pool name or Wildcat JALMAT: Tansill, Yates & 7-Rivers; LANGLIE MATTX: 7-Rivers, Queen & Grayburg
P. O. Box 1390 Montrose, CO 81402		
4. Well Location		
Unit Letter <u>      </u> M <u>      </u> : <u>660</u> feet from the <u>SOUTH</u> line and <u>628</u> feet from the <u>WEST</u> line		
Section <u>19</u> Township <u>24S</u> Range <u>37E</u> NMPM LEA County		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,294' KB		
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		
Pit type <u>DIRT</u> Depth to Groundwater <u>130</u> feet Distance from nearest fresh water well <u>&gt;1000</u> feet Distance from nearest surface water <u>&gt;1000</u> feet		
Pit Liner Thickness: <u>12</u> mil Below-Grade Tank: Volume <u>200</u> bbls; Construction Material <u>Synthetic</u>		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: Repair packer, csg or tbg. <b>PIT PERMIT REQUEST!</b> <input checked="" type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
	OTHER: <input type="checkbox"/>

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.

Objective: Repair packer, casing or tubing.

1. MIRU Pulling Unit.
2. POOH with 2 3/8" IPC tubing and 5 1/2" x 2 3/8" Baker Model AD-1 tension packer.
3. RIH with 5 1/2" RBP and packer to 2955'. Test casing to 500 psig for 30 minutes. POOH with RBP & packer.
4. RIH with 5 1/2" x 2 3/8" Baker Model AD-1 Tension packer to 2,972'; circulate annulus with inhibited packer fluid.
5. Set packer and test annulus to 500 psig for 30 minutes. Pull chart for NMOCD.
6. Place well on injection at approximately 200 bwpd.
7. Maximum permitted injection pressure is 600 psig.
8. Fold Pit Liner inward, cover with 20 mil liner and cover with top soil. File Form C144 with NMOCD.

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 Domingo Canales TITLE Senior Petroleum Engineer DATE 9/22/05

Type or print name  
For State Use Only

E-mail address: Domingo@sdgresources.com Telephone No. 432-580-8500

APPROVED BY: Larry W. Wink TITLE OFFICE FIELD REPRESENTATIVE II/STAFF MANAGER DATE SEP 28 2005

Conditions of Approval (if any):

# WELLBORE SCHEMATIC AND HISTORY

## CURRENT COMPLETION SCHEMATIC

**Surface Csg**  
Hole Size: 11 in  
Csg. Size: 8 5/8 in  
Set @: 291 ft  
Sxs Cmt: 175  
Circ: Yes  
TOC @: surf  
TOC by: circ

Csg Lk at  
697'-729'  
Cmt Sqz'd

TOC @ 1450'  
By T. S.

pkc @ 2955'

2986 - 3050'

3060 - 3158'

3160 - 3320'

OH Interval  
3350 - 3600'

OH ID: 4 3/4 in

**Production Csg.**  
Hole Size: 7 7/8 in  
Csg. Size: 5 1/2 in  
Set @: 3350 ft  
Sxs Cmt: 1000  
Circ: No  
TOC @: 1450 f / surf.  
TOC by: TS

PBTD: 3600 ft  
TD: 3600 ft

## LEASE NAME

**Cooper Jal Unit**

## WELL NO.

**220 W**

## STATUS:

Active

Water Injector

## LOCATION:

660 FSL & 628 FWL, Sec 19, T - 24S, R - 37E; Lee County, New Mexico

## SPUD DATE:

TD

3600

KB

3,294'

DF

## INT. COMP. DATE:

03/22/50

PBTD

3600

GL

3,284'

## ELECTRIC LOGS:

GR-Resistivity (3-17-50 Schlumberger)  
Ejecto Log Tracer (11-8-76 Cardinal Surveys Co.)  
GR-N (10-17-87 Wedge CRC Inc.)  
GR-MSFL-DLL from 3600 - 3350' (1-28-94 Halliburton)  
GR-DSN-SDL from 3600 - 2800' (1-28-94 Halliburton)  
GR-BHC Sonic log from 3600 - 3350' (1-28-94 Halliburton)  
Injection Profile (4-24-95 Houston Inc.)

## GEOLOGICAL DATA

CORES, DST'S or MUD LOGS:

## HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 2979'  
Seven Rivers @ 3210'

## CASING PROFILE

SURF. 8 5/8" - 22,70#, J-55 set @ 291' Cmt'd w/175 sxs - circ cmt to surf.  
PROD. 5 1/2" - 15.5#, J-55 set @ 3350' Cmt'd w/1000 sxs - TOC @ 1450' from surface by Temperature Survey.  
LINER None

## CURRENT PERFORATION DATA

CSG. PERFS:  
2986 - 3050' w/ 1 spf (26 holes)  
3060 - 3158' w/ 4 spf (392 holes)  
3160 - 3320' w/ 1 spf (30 holes)  
OPEN HOLE :  
3350 - 3600'

## TUBING DETAIL

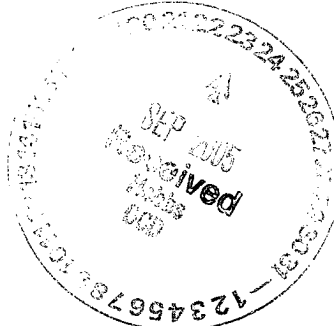
2/23/1994

## ROD DETAIL

Length (ft) Detail  
10 KB  
2942 91 fts - 2 3/8" 4.7#, C.P.L., J-55, 8rd EUE tbq.  
3 1-5 1/2" x 2 3/8" Baker PC, AD-1 packer  
2955 btm

## WELL HISTORY SUMMARY

22-Mar-50 Initial completion (Yates) perf'd 3060 - 3158'. Acq'd w/ 1,000 gals. IP=84 bopd, 0 bwpd, & 63.7 Mcfgpd.  
2-Jul-71 CONVERTED TO INJECTOR.  
8-Nov-76 Ran injection survey. Tagged fill @ 3136'. No fluid flow below 3065'.  
25-Oct-87 Cmt sqz'd csg leak from 697'-729'. Perf'd intervals 2986 - 3050' & 3160 - 3320' (56 holes total). Acq'd perfs w/ 7,000 gals in 4 stages. Installed new injection tbq & pkr. Placed well on injection.  
13-Jan-94 C/O scale from 3320 - 3347' (127'). Deepened well w/ 4 3/4" bit to 3600' (TD). Ran GR-MSFL-DLL from 3600 - 3350'. Ran GR-DSN-SDL from 3600 - 2800'. Ran GR-BHC Sonic log from 3600 - 3350'. Set pkr @ 2936' & acq'd all perfs & OH w/ 8,400 gals 20% NEFE HCL & 0.2% Claytrol in 3 stages diverted with 3,500#s rock salt (total). AIR=5.4 bpm. ISIP=655 psi. P15 min= 479 psi. Installed injection equipment. Initiated injection @ 519 bwpd, TP= 590 psi.  
14-Feb-02 Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 3448' (151' of fill).  
22-May-02 RIH w/ coil tbq. wash down. Tag @ 3585' and clean to 3586'. Sand wash Pass up to packer @ 2955' & down 2955' to 3586'. Fill to 3590', check depth POH w/ coil & found pinhole in coil @ 360' from perfect clean tool. Cut & redo tool. RIH and wash to 3600'. SI annulus + pump acid pass. Pmp. rate- 9 BPM PSI- 3565# Csg.- 63# Pump 60 bbls 15% NEFE + flush to TD w/ 23 BBLS. POH w/ coil tbq. ISIP- 660# put on Inj. 350 BPD rate @ 300#.



## PREPARED BY:

Larry S. Adams

## UPDATED:

09-Sep-02