

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.	30-025-11290
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/> Fed <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No. NM 12612	
7. Lease Name or Unit Agreement Name NM 70962X	
8. Well Number Cooper Jal Unit 228	
9. OGRID Number 193003	
10. Pool name or Wildcat JALMAT: Tansill, Yates & 7-Rivers	

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 <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Injector <input checked="" type="checkbox"/>	
2. Name of Operator SDG Resources L. P.	
3. Address of Operator P. O. Box 1390 Montrose, CO 81402	
4. Well Location Unit Letter <u>C</u> <u>660</u> feet from the <u>NORTH</u> line and <u>1917</u> feet from the <u>WEST</u> line Section <u>30</u> Township <u>24S</u> Range <u>37E</u> NMPM LEA County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,276' GL	
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>>1000</u> feet Distance from nearest surface water <u>>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: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> OTHER: Perform Step-Rate Test. <input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>
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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: Perform Step-Rate Test.

1. Shut well in 24 hours prior to test.
 2. R.U. Arc Pressure Data, Inc.
 3. RIH with pressure bomb and locate at mid-perfs.
 4. Start injection at 100 bwpd for 1 hour.
 5. Ramp rates up at 100 – 200 bwpd increments per hour.
- Note: Obtain at least 3 points before parting pressure and 3 – 4 points after parting pressure.
Note: Maximum rate should be 1000 bwpd.
6. POOH with pressure bomb. R. D. Arc Pressure Data, Inc.
 7. Place well on injection at 345 bwpd.



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 NMOCDC guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Domingo Canales TITLE Senior Petroleum Engineer DATE 11/10/05

Type or print name E-mail address: Domingo@sdgresources.com Telephone: 505-432-580-8500

For State Use Only OC FIELD REPRESENTATIVE II/STAFFING

APPROVED BY: Gary W. Wink TITLE DATE NOV 14 2005

Conditions of Approval (if any)

WELLBORE SCHEMATIC AND HISTORY			
CURRENT COMPLETION SCHEMATIC		LEASE NAME Cooper Jal Unit	
<p>Surface Csg Hole Size: 12 1/4 in Csg. Size: 9 5/8 in Set @: 1164 ft Sxs Cmt: 600 Circ: Yes TOC @: surf TOC by: circ</p> <p>Production Csg. Hole Size: 8 3/4 in Csg. Size: 7 in Set @: 3133 ft Sxs Cmt: 400 Circ: No TOC @: 1845 f / surf TOC by: TS</p> <p>PBT: 3125 ft TD: 3134 ft OH ID: in</p>		WELL NO. 228 WIW	
		STATUS: Active Water Injector	
		LOCATION: 660 FNL & 1917 FWL, Sec 30, T - 24S, R - 37E, Lee County, New Mexico	
		API# 30-025-11290	
SPUD DATE: TD 3134 KB 3,278' DF 3,276'			
INT. COMP. DATE: 11/24/49 PBT 3125 GL 3,267'			
GEOLOGICAL DATA			
ELECTRIC LOGS:			
CORES, DST'S or MUD LOGS:			
GR-N from surface - 3130' (11-13-49 Lane Wells) Temperature Survey (11-14-49 Halliburton) Tracer Survey (11-8-76 Cardinal Surveys)			
HYDROCARBON BEARING ZONE DEPTH TOPS:			
Yates @ 2957'			
CASING PROFILE			
SURF. 9 5/8" - 32#, J-55 set@ 1164' Cmt'd w/600 sxs - circ cmt to surf.			
PROD. 7" - 20#, J-55 set@ 3133' Cmt'd w/400 sxs - TOC @ 1845' from surface by Temp. Survey.			
LINER None			
CURRENT PERFORATION DATA			
CSG. PERFS: 3040 - 3120' w/6 spf (480 holes total)			
OPEN HOLE :			
TUBING DETAIL 3/17/2004			
ROD DETAIL			
Length (ft) Detail			
9.00 KB (as used in 10-17-88 workover)			
2988.00 92 jts - 2 3/8" 4.7#, CL, J-55, 8rd EUE tbg.			
3.58 1- 7" x 2 3/8" Baker AD-1 packer			
3000.58 btm			
WELL HISTORY SUMMARY			
24-Nov-49 Initial completion interval: (Yates) 3040 - 3120' w/ 6 spf (480 holes total): treated w/ 500 gals 15% HCL and 500 gals 20% HCl acid. IP = 63 bopd, 0 bwopd, & 74 Mcf/gpd (flowing). API Grvty = 35.8			
30-Apr-74 CONVERTED TO INJECTION: Tagged TD @ 3125'. Acidz'd perfs (3040 - 3120') w/ 3,000 gals 15% HCL in two stages. Ran pkr on 2 3/8" CL tbg. Initiated injection @ 100 bwopd.			
18-Mar-76 Replaced 1 jt tbg. Ran new pkr. Set pkr @ 2954'. Initiated injection.			
8-Nov-76 Ran injection profile. Found 39' of fill and no flow below 3081'.			
11-Aug-88 SI due to tbg. Leak.			
20-Oct-88 C/O fill (scale & iron sulfide) from 3051 - 3125' (74'). Acidz'd perfs (3040 - 3120') w/ 2,500 gals containing 2% Mutual Solvent. Ran new pkr & 2 3/8" CL tbg. Set pkr @ 2924'. Initiated injection @ 560 bwopd, TP=450 psi.			
14-Feb-02 Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 3029' (104' of fill)			
15-Mar-04 POOH with 2 3/8" IPC tubing string and 2 3/8" x 7" Baker Model AD-1 packer. RIH with 6 1/8" bit and 4 - 4 1/4" drill collars on 2 7/8" tbg. Tagged fill at 3003'. Cleaned out to PBT 3125'. POOH and laid down with work string, drill collars, and bit. RIH with 2 3/8" x 7" Baker Model AD-1 Tension packer hydrotesting 2 3/8" IPC tubing to 5000#. Located packer at 2988'. Circulated annulus with 100 bbls of 2 % KCl water plus packer fluid. Set packer and pressure test to 560 psig for 30 minutes. Pulled chart for TRC filling. Prior rate and pressure: 339 BWPD @ 600 psig. After rate and pressure: 336 BWPD at 600 psig. Maximum allowable pressure is 600 psig.			
25-Mar-04 Pumped 30 bbls surfactant water. Acidized with 1000 gals 15% NEFE HCl acid @ 2.3 BPM. Flushed with 13.2 bbls water. Prior rate & pressure: 360 BWPD @ 775 psig. After rate & pressure: 335 @ 650 psig.			
6-Dec-04 Prior rate & pressure: 300 BWPD @ 1000 psig. RIH with 1 1/4" Perf-Clean Tool on 1 1/4" coil. Washed from 2995' to 3125', made 3 passes with surfactant water. CTP=3500#, Annulus Press=100#. Acidized with 3500 gals 15% NEFE acid, could not go passed 3077'. CTP=4000#, Annulus Press= 900#. ISIP=820#. Placed well on injection. After rate & pressure: 278 bwopd @ 600#.			
PREPARED BY: Larry S. Adams D Carrizales			
UPDATED: 23-Dec-04			