

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.	30-025-09634
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <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 216	
9. OGRID Number 193003	
10. Pool name or Wildcat JALMAT: Tan, Y, 7-R; Langlie Mattix: 7-R, Q, GB	

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>M</u> <u>660</u> feet from the <u>SOUTH</u> line and <u>660</u> feet from the <u>WEST</u> line Section <u>24</u> Township <u>24S</u> Range <u>36E</u> NMPM LEA County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,325' 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 400 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 No. 432-580-8500

For State Use Only

APPROVED BY: Larry W. Wink FIELD REPRESENTATIVE II/STAFF MANAGER DATE NOV 14 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 @: 269 ft
Sxs Cmt: 150
Circ: Yes
TOC @: surf
TOC by: circ

Sqz'd csg leak
277 - 310'

Liner

Lnr Size: 4 1/2"
Set @: 3,002'
Sxs Cmt: class C
Circ.: Yes

Production Csg.

Hole Size: 7 5/8 in
Csg. Size: 5 1/2 in
Set @: 3035 ft
Sxs Cmt: 900
Circ: Yes
TOC @: surface
TOC by: circ.

pkc@ 2995'

Jalmet

OH Interval
3035 - 3780'

Langlie Mattix
at 3400'

PBTD: 3780 ft
TD: 3780 ft

OH ID: 4 3/4 in

LEASE NAME

Cooper Jal Unit

WELL NO.

216 WIW

STATUS:

Active

Water injector

API#

30-025-09634

LOCATION:

660' FSL & 660' FWL, Sec 24, T - 24S, R - 36E; Lea County, New Mexico

SPUD DATE:

TD

3210

KB

3,336'

DF

INT. COMP. DATE:

06/07/51

PBTD

3210

GL

3,324'

ELECTRIC LOGS:

GR-N (6-4-51 Lane Wel Caliper (5-26-51 Halliburton)

CORES, DST's or MUD LOGS:

HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 3035'

CASING PROFILE

SURF. 8 5/8" - 298', 10V & 32#, 8V, J-55 set@ 269' Cmt'd w/150 sxs - circ cmt to surf.
PROD. 5 1/2" - 17#, J-55 set@ 3035' Cmt'd w/900 sxs - circulated cmt to surface.

LINER None

CURRENT PERFORATION DATA

CSG. PERFS:

OPEN HOLE :

3035 - 3780'

TUBING DETAIL

12/14/2004

ROD DETAIL

Length (ft)

Detail

0.00 KB

2983.00 96 jts - 2 3/8" 4.7#, ceramic coat, J-55, 8rd EUE tbg.

3.25 1- 4 1/2" x 2 3/8" Baker AD-1 packer

2986.25 btm

WELL HISTORY SUMMARY

7-Jun-51 Initial completion 3035 - 3210' (Yates OH): Hydra-Frac w/1,500 gals Kerosene, 400#s NAPALM Soap & 800#s Ottawa sand. IP=165 bopd, 0 bwpd, & 189 Mcf/gpd. (flowing)

8-Dec-52 Refrac OH (3035 - 3210') using 12,000 gals lse oil & 12,000#s sand.

8-Aug-57 Refrac OH (3035 - 3210') using 20,000 gals lse oil carrying 40,000#s sand using 6,800#s motiballs for diversion. AIR=15.8 bpm (3 - 600# blocks)

28-Jun-71 CONVERTED TO INJECTOR: C/O stuck tubing. C/O fill to 3210'.

9-Nov-79 Tag fill w/1" sinker bar @ 3055' (155').

30-Jan-85 Isolated 5 1/2" csg leak from 277 - 310'. Sqz cmt csg leak with 400 sxs. C/O to 3210'.

6-Apr-88 Replaced tbg w/new fluorolined yellow band tbg. Test csg to 340 psi. OK.

14-Feb-02 Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 3044' (166' of fill).

23-May-02 Wash & Work down w/ 18 bbls Acid to 3150' Acidize w/ 1260 gals. 15% to 3062' unable to C/O. Flush w/ 15 bbls 15% acid. ISIP= 1180#. Injecting @ 450# @ 250 BPD

6-Nov-03 Cleaned out from 3130' to 3210' - TD. RIH with Injection string - could not test 2 3/8" Fluoroline lined tubing. Replaced with and hydrotest 2 3/8" IPC tubing to 7000 psig. Located 5 1/2" Baker Model AD - 1 at 2995'. Circulated with 70 barrels of 2 % KCl with packer fluid. Set packer and and test annulus to 500 psig. Pulled chart for OCD filling.

29-Nov-04 Rate & Press: 128 bwpd at 1000#. POOH with 2 3/8" IPC tubing and 5 1/2" AD-1 packer. RIH with 4 3/4" mill, 10 - 3 1/2" drill collars on 2 7/8" work string. Tagged at 3,190', cleaned out and drilled out to 3,214'. RIH with 4 3/4" button bit. Drilled to new TD at 3,780' using 5 drill bits. Ran compensated Neutron log from 3,780' to 2,900'. Washed with surfactant water and acidized with 6,000 gals 15% NEFE acid via Perf-Clean Tool. RIH with injection string, circulated annulus with inhibited packer fluid. Set packer 2,988'. Could not obtain MIT due to a casing leak. Shut in well.

11-Jan-05 Shut in. POOH with injection packer and IPC tubing. Set a CIBP at 3,015'. RIH with 4 1/2" float shoe and float collar on 74 - 4 1/2" liner to 3,002'. Cemented with 75 sacks class C star lite plus 60 sacks class C cement, circulated to surface. Drilled out cement float collar & shoe. Test liner to 1000# - held. Drilled out CIBP at 3,015', cleaned out to 3,779'. RIH with new 2 3/8" Ceramic Coat tubing and packer to 2,983'. Circulated with packer fluid. Pressure annulus to 500# - held. Pulled pressure chart for NMOCD. Placed well on injection: 491 bwpd at 460#.

PREPARED BY:

Larry S. Adams

D. Carrizales

UPDATED:

26-Jan-05