

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

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.)		WELL API NO. 30-025-09624
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Injector		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator SDG Resources L. P.		6. State Oil & Gas Lease No. 141560
3. Address of Operator P. O. Box 1390 Montrose, CO 81401		7. Lease Name or Unit Agreement Name Cooper Jal Unit
4. Well Location Unit Letter <u>O</u> : <u>330</u> feet from the <u>SOUTH</u> line and <u>1650</u> feet from the <u>EAST</u> line Section <u>24</u> Township <u>24S</u> Range <u>36E</u> NMPM LEA County		8. Well Number 218 w
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,325' KB		9. OGRID Number 193003
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat JALMAT: Tansill, Yates & 7-Rivers
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 ☐ 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: Cleaned out Jalmat & Acidized w/ Perf-Clean. ☒

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: Cleaned out Jalmat injector w/bit and Acidized with 4,200 gallons 15% NEFE HCl acid using Perf-Clean Tool.

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 4 3/4" bit & 6 - 3 1/2" drill collars on 2 7/8" work string.
4. Cleaned out well to TD at 3,250'.
5. Washed open hole (2,991'-3,250') with surfactant 2% KCl water using Perf-Clean Tool. TP=3000#, CP=900#.
6. Acidized open hole (2,991'-3,250') with 4,200 gallons 15% NEFE HCl acid using Perf-Clean Tool. TP=3000#, CP=900#.
7. ISIP at 5 minutes = 665#. POOH with 2 7/8" work string and laid down Perf-Clean Tool.
8. RIH with 5 1/2" x 2 3/8" Baker Model AD-1 Tension packer to 2,893'; circulated annulus with inhibited packer fluid.
9. Set packer and test annulus to 540 psig for 30 minutes. Pulled chart for NMOCD.
10. Placed well on injection at 164 bwpd at 300 psig.
11. Maximum permitted injection pressure is 600 psig.

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 Angeles TITLE Senior Petroleum Engineer DATE 12/07/04

Type or print name
For State Use Only

E-mail address: Domingo@sdgresources.com Telephone No. 432-550-7580

APPROVED BY: Larry W. Wink
Conditions of Approval (if any):

TITLE OC FIELD REPRESENTATIVE DATE DEC 22 2004

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC

Surface Csg

Hole Size: 11 in
Csg. Size: 8 5/8 in
Set @: 247 ft
Sxs Cmt: 125
Circ: Yes
TOC @: surf
TOC by: circ

Production Csg.

Hole Size: 7 7/8 in
Csg. Size: 5 1/2 in
Set @: 2991 ft
Sxs Cmt: 350
Circ: No
TOC @: 1145 f / surf.
TOC by: calc.

PBTD: 3250 ft
TD: 3250 ft

OH ID: 4 3/4 in

TOC @ 1145'
By Calc.

pkc @ 2893'

Fill @ 3059'

OH Interval
2991 - 3250'

LEASE NAME Cooper Jal Unit		WELL NO. 218 W	
STATUS: Active		Water Injector	
LOCATION: 330 FSL & 1650 FEL, Sec 24, T - 24S, R - 36E; Lee County, New Mexico			
SPUD DATE: 08/01/49	TD 3250	KB 3,325'	DF
INT. COMP. DATE: 10/25/49	PBTD 3250	GL 3,315'	

<u>ELECTRIC LOGS:</u>	<u>GEOLOGICAL DATA</u>	<u>CORES, DST'S or MUD LOGS:</u>
Ejectolog Tracer (MicroCaliper) (11-11-76 Cardinal Surveys Co.)		
<u>HYDROCARBON BEARING ZONE DEPTH TOPS:</u>		
Yates @ 3095'		

<u>CASING PROFILE</u>	
SURF. 8 5/8" - 28#, J-55 set@ 247' Cmt'd w/125 sxs - circ cmt to surf.	
PROD. 5 1/2" - 15.5#, J-55 set@ 2991' Cmt'd w/350 sxs - TOC @ 1145' from surface by calculation.	
LINER None	

<u>CURRENT PERFORATION DATA</u>	
CSG. PERFS:	OPEN HOLE : 2991 - 3250'

<u>TUBING DETAIL</u>	11/23/2004	<u>ROD DETAIL</u>
<u>Length (ft)</u> <u>Detail</u> 7 KB (as used in 12/97 workover) 2893 94 fts - 2 3/8" 4.7#, IPC (duo line), J-55, 8rd EUE tbg. 3 1-5 1/2" x 2 3/8" Baker PC, AD-1 packer 2903 btm		

<u>WELL HISTORY SUMMARY</u>	
25-Oct-49	Initial completion 2991 - 3250' (Yates OH): No stimulation. IP=54 bopd, 0 bwpd, & 82 Mcf/gpd. (flowing)
12-Jun-53	C/O fill to 3241'. Hydra-Frac OH w/1,500 gals
08-Jul-65	C/O fill from 3005 - 3248' (243'). Had salt bridge from 3005 - 3244'.
29-Apr-71	CONVERTED TO INJECTOR: C/O fill from 3221 - 3238' (17')
11-Nov-76	Ran injection profile. Tagged fill @ 3084' (166'). No C/O.
01-Dec-76	C/O fill 3084 - 3250' (66'). Jetwashed OH. Encountered tight spot in OH @ 3120'
15-Jan-86	Replaced cmt lined tubing & pkr.
14-May-88	Acidz'd OH w/1,000 gals 15% NEFE HCL in 2 equal stages using 300#s rock salt down IPC tbg.
02-Dec-97	C/O fill (paraffin, formation & formation sand) from 3083 - 3250' (167'). Acidz'd OH using the sonic hammer tool w/5,000 gals 15% NEFE HCL. AIR=1 bpm @ 750 psi. Ran pkr on 2 3/8" tbg. Set pkr @ 2947'. Initiated injection.
09-Jul-98	Performed csg/pkr tst per NMOCD guidelines @ 500 psi for 30 min. Test OK.
14-Feb-02	Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 3059' (191' of fill).
18-Nov-04	POOH with 94 - 2 3/8" IPC tubing and 5 1/2" AD-1 packer. RIH with 4 3/4" bit and 6 - 3 1/2" drill collars. Tagged at 3,057', drilled to 3250' recovering formation, sand and paraffin. RIH with Perf-Clean Tool, jet clean with surfactant water from 2,991' to 3,250'. Tbg press=3000#, casing press=50#. Acidize: stage I. 25 bbls 15% NEFE 1/3,250' to 3,188' TP=3000#, CP=900#, stage II 25 bbls 15% NEFE 1/3,188' to 3,126' @ 2.5 BPM TP=3000#, CP=900#, stage III 25 bbls 15% NEFE 1/3,126' to 3,061' @ 2.5 BPM, TP=3000#, CP=900#, Stage IV 25 bbls 15% NEFE 1/3,061' to 2,991' @ 2.5 BPM, TP=3000#, CP=950#. ISIP @ 5 min = 667#. Circulate clean to 3,250'. POOH & laid down Perf-Clean Tool and work string. Hydrotest injection string (2 3/8" IPC) to 7000#. Circulated annulus with inhibited packer fluid. Set AD-1 packer at 2,893'. Performed MIT to 540# for 30 minutes. Pulled pressure chart for NMOCD. NMOCD Field Rep was not present to witness the test. Prior Rate & Press: 280 bwpd @ 900 psig. After Rate & Pressure: 164 bwpd @ 300 psig.

PREPARED BY:	Larry S. Adams	D. Carrizales	UPDATED:	07-Dec-04
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