

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.	30-025-09635
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	NM0321613
7. Lease Name or Unit Agreement Name	LC0325928
8. Well Number	Cooper Jal Unit #209
9. OGRID Number	193003
10. Pool name or Wildcat	JALMAT: Tansill, Yates & 7-Rivers; LANGLIE MATTIX: 7-Rivers, Queen & Grayburg

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 checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Injector	
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>D</u> ; <u>2080</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.)	3,342' 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>>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: Recovered Fish, Deepened, Acidized & Frac'd. ☒

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: Recovered Fish, Deepened producer to 3,773'; completed as Jalmat/Langlie Mattix: acidized, and fracture stimulated.

1. MIRU Pulling Unit. POOH with rods, pump and tubing string.
2. RIH w/ 4 3/4" bit & 6 - 3 1/2" drill collars on 2 7/8" work string. Deepened well to new TD at 3,773'. Laid down bit & drill collars.
3. RU Wireline Company. Ran Compensated Neutron Log from TD to 2500'.
4. Perf Yates (3070'-3117'), 7-Rivers (3292'-3306'), 180 degree phasing, 2 JHPF, using 4" HSC gun. RD Wireline.
5. RIH with 5 1/2" packers on 2 7/8" work string.
6. Acidized open hole (3,681'-3,773'); perfs: 7-Rivers (3298'-3398') & Yates (3040'-3247'), with 5,000 gallons 15% NEFE HCl acid.
7. POOH with 2 7/8" work string.
8. RIH with 5 1/2" treating packer on 3 1/2" work string.
9. Fracture stimulate open hole (3681'-3773'); perfs 7-Rivers (3298'-3398') & Yates (3040'-3247') with 64,500# 12/20 mesh sand.
10. POOH and lay down 3 1/2" work string and packer.
11. Clean out well to new TD with sand bailer on 2 7/8" work string. Lay down bailer and 2 7/8" work string.
12. RIH 2 7/8" production string, pump and rods. Place well on production. Turn over to operations.
13. 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 Cautz TITLE Senior Petroleum Engineer DATE 8/10/05

Type or print name

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

For State Use Only

APPROVED BY: Paul F. Kautz TITLE

Conditions of Approval (if any)

ORIGINAL SIGNED BY
PAUL F. KAUTZ
PETROLEUM ENGINEER

DATE AUG 26 2005

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC

Surface Csg

Hole Size: 11 in
Csg. Size: 8 5/8 in
Set @ 1215 ft
Sxs Cmt: 500
Circ: Yes
TOC @ surf
TOC by: circ

TOC @ 430'
By Calc.

Open Hole
3680'-3773'

Production Csg.

Hole Size: 7 7/8 in
Csg. Size: 5 1/2 in
Set @ 3680 ft
Sxs Cmt: 600
Circ: No
TOC @ 430 f / surf
TOC by: calc.

PBTD: 3773 ft
TD: 3773 ft

Cooper Jal Unit

WELL NO. 209

LEASE NAME: Cooper Jal Unit
STATUS: Active Oil
LOCATION: 2080 FSL & 700 FWL, Sec 24, T - 24S, R - 36E, Lee County, New Mexico
SPUD DATE: 09/19/54 TD 3773 KB 3,342' DF
INT. COMP. DATE: 10/05/54 PBTD 3773 GL 3,329'

GEOLOGICAL DATA

ELECTRIC LOGS:
GR-N from 0 - 3621' (10-5-54 PGAC)

CORES, DSTS or MUD LOGS:

HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 3040'
Seven Rivers @ 3245'
Queen @ 3,622'

CASING PROFILE

SURF. 8 5/8" - 29.75# J-55 set@ 1215' Cmt'd w/500 sxs - circ cmt to surf.
PROD. 5 1/2" - 14# J-55 set@ 3681' Cmt'd w/500 sxs - TOC @ 430' from surf.
LINER None

CURRENT PERFORATION DATA

CSG. PERFS: Old Perfs: 3160 - 95' w/4 spf (144 holes total)
3224 - 47' w/4 spf (96 holes total)
3542 - 48' w/4 spf (28 holes)
3460' 69, 70, 82, 98, 3500', 3502', 3526', 3528',
3593', 3594', 3596' w/1 spf (12 holes total)
3623 - 29 w/4 spf (28 holes total)
New Perfs: 7-Rivers: 3392'-3398', 3367'-3373', 3298'-3306' 1 JHPF, 20 holes
Yates: 3117'-3125', 3080'-3105', 3040'-3070', 1 JHPF, 63', 62 holes.

OPEN HOLE :
3680'-3773'

TUBING DETAIL

6/16/2005

Length (ft)	Detail
3170	102 2 7/8" J-55 6.5# Super Max tubing
3	1 2 7/8" x 5 1/2" TAC
525	18 2 7/8" J-55 6.5# Super Max tubing
1	1 2 7/8" S.N.
4	1 4' x 2 7/8" P.S.
31	1 2 7/8" x 31' OEMA
3734	

ROD DETAIL

6/16/2005

Length (ft)	Detail
20	1 1 1/2" x 20' polish rod w/ 7/8" pin
0	1 1 1/4" x 1 1/2" x 12 liner
14	3 4' 4", 6' - 7/8" KD Pony Rods
1625	65 3/4" KD Steel Rods
1900	76 7/8" KD Steel Rods
150	6 1 1/2" K-Bars
16	1 2" x 1 1/2" x 16' RWBC Pump
0	1 1 1/4" x 8' sand screen - 50 slot
3725	

WELL HISTORY SUMMARY

05-Oct-54 Initial completion: Perf'd 3542'-48' w/ 4 spf (28 holes). Acid'd w/ 250 gals mud acid. Frac'd w/4,000 gals lse oil carrying 4,000#s sand. Refrac'd w/8,000 gals lse oil carrying 8,000#s sand. Perf'd 3623 - 29' w/4 spf (28 holes). Acid'd perfs 3623 - 29' below pkr w/ 500 gals and frac'd w/10,000 gals lse oil carrying 10,000#s sand. IP=9 bopd, 2 bwpd, & 105 Mcfgpd.
20-Jan-56 Set BP @3500'. Perf'd 3224 - 47' w/4 spf (96 holes). Acid'd perfs w/500 gals & Frac'd w/10,000 gals lse oil & 10,000#s sand. Set BP @ 3212'. Perf'd 3160 - 95' w/ 4 spf (144 holes). Acid'd perfs w/500 gals & Frac'd w/10,000 gals lse oil & 10,000#s sand. Remove BP @ 3212'. Placed well on production. IP=47 bopd, 0 bwpd, & 438 Mcfgpd (flowing)
11-Jul-60 Well Shut-in.
08-Feb-74 Remove BP @ 3212' & C/O to 3660'. Perf'd 3460', 69, 70, 82, 98, 3500', 3502', 3526', 3528', 3593', 3594', 3596' w/1 spf (12 holes total). Acid'd w/1,250 gals 20% NEFE HCL. Frac'd perfs (3460 - 3629') below pkr @ 3395' w/30,000 gals gelled water carrying 18,000#s 10/20 sand & 31,000# 20/40 sand. Tagged fill @ 3590'. After WO: 31 bopd & 13 bwpd
20-Mar-79 C/O fill from 3573 - 3607' (34'). Isolated & acid'd perfs 3160 - 3247' w/2,000 gals 15% NEFE HCL. Tst production from perfs 3160 - 3247' @ 21 bopd & 12 bwpd. Returned well to production. After WO: 32 bopd & 22 bwpd.
22-Jan-87 Tagged fill @ 3638'.
12-Oct-93 Replaced 1 jt tbg. Ran new pmp & rods. Returned well to production. (Cut paraffin out of tbg)
22-Apr-97 L/D rod string & pmp (124 - 3/4" & 18 - 7/8" rods). Bull plugged tbg & rigged down. Well TA'd (4-22-97).
30-Oct-02 Made 2 attempts to recover SN & MAJ without success. Hydrotest in hole. Replaced polish rod the next day.
07-Nov-02 Change out pump. Load & test well to 500 psig. Pumped up.
21-Feb-03 Exchange a Lufkin 320 D with a Bethlehem 228 pumping unit. Left pumping.
11-Mar-05 POOH scanaloging 2 3/8" tubing: 54 - blue, 36 - double green, 17 - single green and 8 - red. Fished and recovered SN and Perf Mud Anchor. Drilled float collar & shoe. RIH with 20 - 3 1/2" drill collars & 4 3/4" button bit. Deepen well to 3,773'. Ran Compensated Neutron log from 3,773' to 2,500'. Hydrotest 3 1/2" WS to 7,000#. Frac'd (Langlie Mattix) Perfs (3460-3596') & open hole (3680'-3773') w/ 53,500# 12/20 mesh sand. Pmax= 4300#. AIR= 29 BPM. ISIP= 1090#. Perf 7-Rivers (3392'-3398'), 1 JHPF, 20 holes; Yates (3117'-3070'), 1 JHPF, 62 holes. Acidize 7-Rivers with 6 bbls - communicated. Set Pkr above Yates perfs. spot sand to 3140'. Acidize (3040'-3125') w/ 2,000 gals 15% & 110 ball sealers. Frac'd (Jalmat) Perfs Yates & 7 Rivers (3070'-3392') with slick water plus 11,00# 20/40 mesh sand. AIR= 25.4 bpm. Pavg= 1607#. ISIP= 980#. It took 2 days to cleaned out frac sand and POOH w/ frac packers. PWOP.
12-May-05 POOH with rods, pump and tubing. Cleaned out with notched collar, using air foam unit from 3,754' to 3,773'. PWOP.
15-Jun-05 POOH with rods and tubing. pump stuck in blast joint. RIH with tubing, pump and rods. PWOP.

PREPARED BY:

Larry S. Adams

D. Carrizales

UPDATED:

11-Jul-05