

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.	30-025-11291
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	LC0325928
8. Well Number	Cooper Jal Unit 227
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 ☒ Gas Well ☐ Other ☐ 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 D; 660 feet from the NORTH line and 660 feet from the WEST line
Section 30 Township 24S Range 37E NMPM LEA County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,285' GL

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type DIRT Depth to Groundwater 130 feet Distance from nearest fresh water well >1000 feet Distance from nearest surface water >1000 feet

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume 200 bbls; Construction Material Synthetic

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: Deepen, Acidize and Fracture Stimulate. Pit Permit. ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☒ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

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: Deepen producer to 3,790', run 5 1/2" liner, acidize, and fracture stimulate. Complete as **DHC** producer.

1. MIRU Pulling Unit. POOH with rods, pump and tubing string.
2. RIH w/ 6 1/8" bit & 12 - 3 1/2" drill collars on 2 7/8" work string. Deepen well to new TD at 3,790'.
3. Lay down bit & drill collars. RU Wireline Company. Run Compensated Neutron Log from TD to 2,790'.
4. RIH w/ 5 1/2" liner from 3,790' to 3,120'.
5. RIH with 7" packers on 3 1/2" work string to 2,860'. Set packer.
6. Acidize open hole (3,148'-3,790'); perfs: Yates (2,964'-3,140'), with 4,000 gallons 15% NEFE HCl acid diverting with rock salt.
7. Fracture stimulate open hole (3,148'-3,790') & Yates Perfs (2,964'-3,140') with 100,000# 12/20 mesh sand in 4 stages, diverting with rock salt.
8. Flow well back until surface pressure depletes. POOH and lay down 3 1/2" work string and packer.
9. Clean out well to new TD with sand bailer on 2 7/8" work string. Lay down bailer and 2 7/8" work string.
10. RIH 2 7/8" production string, pump and rods. Place well on production. Turn over to operations.
11. 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 Carrizales TITLE Senior Petroleum Engineer DATE 05/13/05

Type or print name
For State Use Only

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

APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE MAY 20 2005
Conditions of Approval (if any):

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC

Surface Csg
Hole Size: 12 1/4 in
Csg. Size: 9 5/8 in
Set @: 1139 ft
Sxs Cmt: 600
Circ: Yes
TOC @: surf
TOC by: circ

TOC @ 1480'
By Calc.

Production Csg.
Hole Size: 8 3/4 in
Csg. Size: 7 in
Set @: 3148 ft
Sxs Cmt: 400
Circ: No
TOC @: 1480 f / surf
TOC by: TS

PBTD: 3144 ft
TD: 3150 ft

OH ID: in

LEASE NAME

Cooper Jal Unit

WELL NO.

227

STATUS: Active

Oil

API#

30-025-11291

LOCATION: 660' FNL & 660' FWL, Sec 30, T - 24S, R - 37E, Lee County, New Mexico

SPUD DATE:

TD

3150

KB

3,285'

DF

3282'

INT. COMP. DATE:

06/26/50

PBTD

3144

GL

3,274'

GEOLOGICAL DATA

ELECTRIC LOGS:

GR-N from surface - 3150' (6-25-50)
Temperature Log from 500 - 3060' (5-26-50 Halliburton)
GR - CCL (6-3-99 Schlumberger)
Trac III (9-27-76 Cardinal Surveys Co.)

CORES, DST'S or MUD LOGS:

HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 2975'

CASING PROFILE

SURF. 9 5/8" - 32#, J-55 set@ 1139' Cmt'd w/600 sxs - circ cmt to surf.
PROD. 7" - 20#, J-55 set@ 3148' Cmt'd w/400 sxs - TOC @ 1480' from surface by Temperature Survey.
LINER None

CURRENT PERFORATION DATA

CSG. PERFS:
3040 - 3140' w/ 6 spf
2964 - 2994' & 3000 - 3026' w/ 2 spf (116 holes total)

OPEN HOLE:

TUBING DETAIL 6/9/1999

Length (ft)	Detail
8	KB
2886	92 2 7/8" 6.5#, J-55, 8rd EUE tbgs.
3	1 5 1/2" x 2 7/8" TAC
187	6 2 7/8" 6.5#, J-55, 8rd EUE tbgs.
32	1 2 7/8" 6.5#, Ceramic coated, J-55, 8rd EUE tbgs.
1	1 2 7/8" SN
27	1 3 1/2" Mud Anchor w/OPMA purge valve
3144	

ROD DETAIL 6/9/1999

Length (ft)	Detail
22	1 22" x 1 1/4" polish rod
0	1 2" x 1 1/2" liner
20	4 2", 4", 6", 8" - 3/4" D pony rods
2875	115 3/4" D steel rods
175	7 1 1/4" sinker bars
14	1 2 1/2" x 1 1/4" X 14' RHBC rod pump
0	1 1 1/4" gas anchor
3106	

SN @ 3115' TAC @ 2894'

WELL HISTORY SUMMARY

26-May-50 Initial completion interval: (Yates) 3040 - 3140' w/ 6 spf; treated w/ 500 gals acid. IP = 59 bopd, 0 bwopd, & GOR=1170, (flowing) API Grvty = 35.4
1-Jul-74 Tagged fill @ 3140'. Did not C/O.
31-Jul-75 Producing 40 bopd & 0 bwopd (pumping)
17-Sep-75 Producing 19 bopd & 9 bwopd (pumping)
6-Oct-75 C/O fill from 3128 - 45' (17')
19-Dec-75 Producing 12 bopd & 45 bwopd (pumping)
12-Jun-76 Producing 8 bopd & 61 bwopd (pumping)
14-Sep-94 C/O fill from 3124 - 48' (24'). Acdd'd perfs(3040 - 3140') w/ 4,000 gals 20% NEFE HCL & 700#s rock salt in 3 stages. AIR= 1 bpm @ 875 psig. ISIP=770 psi, P10min=vacuum. Swab back 10 bbls of load. Swabbed dry. Rts pkr & circ out rock salt from 3117'-3148'. Ran production equipment. After WO: 20 bopd, 74 bwopd, & 8 Mcfgpd.
2-Jun-99 Tagged TD w/ 6 1/4" bit & 7" scraper. Ran GR-CCL from 3148 - 2000'. Perfd: 2964 - 2994' & 3000 - 3026' w/ 2 jpf @ 120 deg phasing. (116 holes total - .42" dia.). Adz'd perfs 2964 - 3140' w/3,500 gals 15% NEFE HCL thru sonic hammer tool. AIR= 3 bpm @ 1,000 psig. Isolated perfs 2964 - 3026'. Acdd'd perfs (2964 - 3026') w/ 3,000 gals 15% NEFE HCL dropping 1250#s rock salt in 3 block stages. AIR=4 bpm @ 1300 psi. ISIP=vacuum. Return well to production. After WO: 9 bopd, 57 bwopd, & 31 Mcfgpd.

2964 - 94'

3000 - 26'

3040 - 3140'

PREPARED BY:

Larry S. Adams

UPDATED:

12-Dec-02

MAY 20 2005