

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.	30-025-33458
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	NM 12612
7. Lease Name or Unit Agreement Name	NM 70926X
8. Well Number	Cooper Jal Unit #420
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 ☐

2. Name of Operator

SDG Resources L. P.

3. Address of Operator

P. O. Box 1390
Montrose, CO 81402

4. Well Location

Unit Letter G; 2310 feet from the NORTH line and 2310 feet from the EAST line
Section 24 Township 24S Range 36E NMPM LEA County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,313' KB

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: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Perf'd Langlie Mattix, Acid & Frac'd Stim. ☒

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: Perforated Langlie Mattix and complete as DHC (Jalmat/Langlie Mattix). Acidized and fractured stimulate.

- MIRU Pulling Unit. POOH with rods, pump and tubing string. NU BOP.
- RIH w/ 4 3/4" bit & 6 - 3 1/2" drill collars on 2 7/8" work string. Drilled CIBP at 3690' and cement to 3,784'.
- Lay down bit & drill collars.
- Perf Yates (3024'-46', 3130'-42', 3235'-44', 3250'-54' & 3280'-83'), 7-Rivers (3476'-86', 3505'-15', 3526'-40', 3581'-83' & 3612'-18'), and Queen (3634'-36', 3652'-55', 3672'-82', 3684'-98', 3702'-10', 3720'-26', 3730'-38' & 3747'-52') 180 degree phasing, 2 JHPF, using 4" HSC gun. RD Wireline.
- RIH with 5 1/2" Frac packers on 3 1/2" work string.
- Acidize perfs: Queen (3634'-3752'), 7-Rivers (3412'-3486') with 3,500 gallons 15% NEFE HCl acid. Drop 50 RCN BS.
- Fracture stimulate Langlie Mattix Queen (3634'-3752') & 7-Rivers (3412'-3486') w/ 81,500 16/30 mesh sand. ISIP= 1562#.
- PUH and set packer 3400'. Spot & spearhead w/ 1000 gals 15% NEFE acid.
- Frac'd Jalmat (3024'-3362') w/ 65,000# 16/30 mesh sand. ISIP= 1484#.
- Clean out well to new TD with sand bailer on 2 7/8" work string. Lay down bailer and 2 7/8" work string.
- RIH 2 7/8" production string, pump and rods. Place well on production. Turn over to operations.
- Disposed of pit fluid. Fold Pit Liner inward, cover with 20 mil liner and cover with top soil. File Form C144 with NMOCD.

DAC-3082

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 Canizales TITLE Senior Petroleum Engineer DATE 10/20/05

Type or print name

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

For State Use Only

APPROVED BY: [Signature]

TITLE

PETROLEUM ENGINEER

DATE

Conditions of Approval (if any):

DEC 05 2005

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC

LEASE NAME

Cooper Jal Unit

WELL NO.

420

STATUS:

TA'd

(10-1-98)

Oil

API#

30-025-33458

LOCATION:

2310 FNL & 2310 FEL, Sec 24, T - 24S, R - 36E; Lee County, New Mexico

SPUD DATE:

07/16/96

TD

3824

KB

3,329'

DF

INT. COMP. DATE:

08/07/96

PBT

3732

GL

3,313'

GEOLOGICAL DATA

ELECTRIC LOGS:

PE, CNL, LDT, ML, SFL, BCS, & GR (7-25-96 Schlumberger)
GR-CCL from 3730' - 2730' (8-1-96 Schlumberger)

CORES, DSTS or MUD LOGS:

HYDROCARBON BEARING ZONE DEPTH TOPS:

Tansil @ 2875' Yates @ 3025' Seven Rivers @ 3248' Queen @ 3630'

CASING PROFILE

SURF. 8 5/8" - 24#, WC-50, ST&C set @ 432' Cm'd w/ 250 sxs - circ cmt to surface.

PROD. 5 1/2" - 15.5#, WC-50, LT&C set @ 3825' Cm'd w/ 1150 sxs - circ cmt to surface.

LINER. None

CURRENT PERFORATION DATA

CSG. PERFS:

OPEN HOLE:

01-Aug-96 Perf'd @ 3050' - 56', 3068' - 90', 3108' - 3111', 3150' - 56', 3191' - 94', 3230' - 34', 3294' - 3304', & 3358' - 62' w/ 4 spf (232 holes)

05-Oct-05 Perf'd @ 3747' - 52', 3730' - 38', 3720' - 26', 3702' - 10', 3684' - 98', 3672' - 82', 3652' - 55', 3634' - 36', 3612' - 18'

3581' - 83', 3526' - 40', 3505' - 15', 3476' - 86', 3280' - 83', 3250' - 54', 3235' - 44', 3130' - 42' & 3024' - 46', 145 holes.

12-Oct-05 Perf'd 7-R @ 3458' - 61', 3443' - 48', & 3434' - 38', 12 feet, 2 JHPF.

TUBING DETAIL

7/14/2004

ROD DETAIL

7/14/2004

Length

Detail

Length

Detail

2715

85

2 7/8" J-55, 6.5#, Supermax tbg

16

1

1 1/4" x 22 w/ 7/8" Pin

3

1

2 7/8" x 5 1/2" TAC w/cross overs

0

1

1 1/4" x 1 1/2" x 14' liner

825

26

2 7/8" J-55, 6.5#, Supermax tbg

1175

47

1" steel rods

4

1

2 7/8" lift tbg sub

1225

49

7/8" steel rods

24

1

2 1/2" x 2 1/4" x 24' THC

750

30

3/4" steel rods

4

1

2 7/8" Perf Sub

400

16

1 1/4" steel rods

31

1

2 7/8" MAJ Open Ending

4

1

2 1/2" x 2 1/4" x 4' THBC Plunger

3606

3570

WELL HISTORY SUMMARY

01-Aug-96 Ran GR-CCL from 3730' - 2730'. Perf'd 3080' - 56', 3068' - 90', 3108' - 3111', 3150' - 56', 3191' - 94', 3230' - 34', 3294' - 3304', 3358' - 62', w/ 4 spf (232 holes). Frac w/ 51,000 gals 30# boreate carrying 258,000#s 12/20 brady sand. Pump test 24 hrs - 35 bopd, 253 bwpd, 33 Mcf/gpd.

04-Jun-97 Converted well from PC pump system to rod pump system.

30-Sep-98 L/D production equipment. Set CIBP @ 3000'. Displaced csg with packer fluid & test to 500 psi. Well TA'd 10-1-98.

14-Nov-03 RIH with Sand Line Drill Bailer and tagged CIBP at 2994'. Drilled out and pushed down CIBP to 3690'. RIH with 108 - 2 7/8" tubing string. RIH with 2 1/2" x 2 1/4" x 4' plunger and 135 steel rods. Placed well on production. Well test: 20 BOPD, 232 BWPD, & 12 MCFPD.

15-Apr-04 POOH with rods, pump, and tubing. Hydrotest tubing in hole to 7,000#, found hole on the 74th joint. RIH with pump and rods. PWOP.

12-Jul-04 POOH w/ rods & pump. Scanalog tubing out of hole. Found 1 yellow, 26 blue, 60 green, & 21 red due to pitting. RIH w/ Super max (80) tbg. Shut in due to defective collars. Finish running in hole with Supermax tubing. Tagged fill @ 3670'. RIH with pump and rods. PWOP.

30-Sep-05 POOH w/ production string. RIH w/ 4 3/4" bit & 10 - 3 1/2" DCs on 2 7/8" tbg, tagged at 3668'. C/O to 3762', recovered scale, cast iron rubber and cement. Perf'd LM @ 3747' - 52', 3730' - 38', 3720' - 26', 3702' - 10', 3684' - 98', 3672' - 82', 3652' - 55', 3634' - 36', 3612' - 18', 3581' - 83', 3526' - 40', 3505' - 15', 3476' - 86', JAL @ 3280' - 83', 3260' - 64', 3235' - 44', 3130' - 42' & 3024' - 46', 145 holes. Spot and acidized Langlie Mattix (3476' - 3747') w/ 3500 gals 15% NEFE. Diverted with 150 BSs, excellent ball action (Pmax= 6500#). Frac'd LM (3476' - 3747') w/ 35K gals XL gel & 81,500# 16/30 mesh sand. Pavg= 2450# @ 31 bpm. ISIP= 1562#. Did not pump 6 ppg. Spot and acidized Jalmat (3050' - 3362') with 1000 gals NEFE 15% acid. Frac'd Jalmat with 29K gals 30# XL gel plus 65,000# 16/30 mesh sand. Pmax= 2075# @ 30 bpm. ISIP= 1484#. POOH with frac packers. Cleaned out with notch collar to 3784'. Perf'd 7-R @ 3458' - 61', 3443' - 48', and 3434' - 38', 12 feet, 2 JHPF. RIH with 2 7/8" super max tubing, pump and rods. PWOP.

Surface Csg

Hole Size: 12 1/4 in
Csg. Size: 8 5/8 in
Set @: 432 ft
Sxs Cmt: 250
Circ: Yes
TOC @: surf
TOC by: circ

Jalmat

3024'-46'

3050'-56'

3108'-3111'

3130'-42'

3150'-56'

3191'-94'

3230'-44'

3250'-54'

3280'-83'

3294'-3304'

3358'-62'

Langlie Mattix

3434'-38'

3443'-48'

3458'-61'

3476'-86'

3505'-15'

3526'-40'

3581'-83'

3612'-18'

3634'-36'

3652'-55'

3672'-82'

3684'-98'

3702'-10'

3720'-26'

3730'-38'

3747'-52'

PBT: 3732 ft
TD: 3824 ft

PREPARED BY:

Larry S. Adams

D. Camzales

UPDATED:

17-Oct-05