

State of New Mexico
Energy, Minerals and Natural Resources

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. 30-025-33459
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator SDG Resources L. P.		6. State Oil & Gas Lease No. NM 12612
3. Address of Operator P. O. Box 1390 Montrose, CO 81402		7. Lease Name or Unit Agreement Name NM 70926X
4. Well Location Unit Letter J ; 1575 feet from the SOUTH line and 2525 feet from the EAST line Section 24 Township 24S Range 36E NMPM LEA County		8. Well Number Cooper Jal Unit #421
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,318' 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: Tan, Y & 7-R; Langlie Mattix: 7-R, Q, GB
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 Yates 7-Rivers & Queen, Acid & Frac 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 Jalmat & Langlie Mattix and completed as DHC (Jalmat/Langlie Mattix); acidized, and fracture stimulated.

- 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 cement and clean out to 3,780'.
- Lay down bit & drill collars.
- Perf'd Yates (3024'-3040' & 3044'-52'), 7-Rivers (3452'-59', 3483'-93', 3512'20', 3532'-46' & 3586'-88'), and Queen (3616'-22', 3636'-38', 3654'-56', 3674'-94', 3705'-08', 3716'-24' & 3741'-48') 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 (3616'-3748'), 7-Rivers (3452'-3588') with 4,000 gallons 15% NEFE HCl acid.
- Fracture stimulate Langlie Mattix Queen (3452'-3748') & 7-Rivers (3452'-3588') w/ 121,000 16/30 mesh sand.
- POOH and lay down 3 1/2" work string and packer.
- 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. 09/23/05
- Disposed of pit fluids. Fold Pit Liner inward, cover with 20 mil liner and cover with top soil. File Form C144 with NMOCD.

DHC-3592

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 Canales TITLE Senior Petroleum Engineer DATE 9/20/05

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

Conditions of Approval (if any):

DEC 05 2005

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC

Surface Csg
Hole Size: 12 1/4 in
Csg. Size: 8 5/8 in
Set @: 404 ft
Sxs Cmt: 250
Circ: Yes
TOC @: surf
TOC by: circ

LEASE NAME

Cooper Jal Unit

WELL NO.

421

STATUS:

Active

Oil

API#

30-025-33459

LOCATION:

1575 FSL & 2525 FEL, Sec 24, T - 24S, R - 36E, Lee County, New Mexico

SPUD DATE:

06/27/96

TD

3800

KB

3335'

DF

INT. COMP. DATE:

08/11/96

PBTD

3780

GL

3,318'

GEOLOGICAL DATA

ELECTRIC LOGS:

MSFL-DLL-BHR-GR from 3794 - 2750' (8-2-96 Schlumberger)

LTD-CNL-NGT from 3794 - 200' (8-2-96 Schlumberger)

GR-CCL (8-6-96 Schlumberger)

CORES, DST'S or MUD LOGS:

HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates - 3023'

7-Rivers 3222'

Queen 3614'

CASING PROFILE

SURF. 8 5/8" - 24#, WC-50, ST&C set@ 404'. Cmt'd w/250 sxs - circ cmt to surface.

PROD. 5 1/2" - 15.5#, WC-50, LT&C set@ 3800'. Cmt'd w/1150 sxs - circ cmt to surface.

LINER. None

CURRENT PERFORATION DATA

CSG. PERFS:

OPEN HOLE:

Perf'd f/ 3061'-63', 3066'-68', 3073' - 3090', 3135'-38', 3148'-54', 3169'-72', 3182'-84', 3298'-3308', & 3353'-56' w/ 4 spf (192 holes total)

Perf'd f/ 3742'-48', 3716'-24', 3705'-08', 3674'-94', 3654'-56', 3636'-38', 3616'-22',

3586'-88', 3532'-46', 2512'-20', 3483'-93', 3452'-59', 3044'-52' & 3024'-40', 2 SPF, 180 degree phase, 224 holes.

TUBING DETAIL

9/29/05

ROD DETAIL

9/29/05

Length (ft)

Detail

Length (ft)

Detail

0

KB

18

26' x 1 1/4" spray metal PR w/ 1" pin

2986

95 2 7/8" 6.5#, J-55, 8rd EUE tbgs.

24

2 6', 18' - 1" Fiberglass pony rods

3

1 5 1/2" x 2 7/8" TAC

1125

30 1" Fiberglass rods

411

14 2 7/8" 6.5#, J-55, 8rd EUE tbgs.

925

37 7/8" steel rods

31

1 2 7/8" blast joint

1000

40 89 - 3/4" rods

1

1 2 7/8" SN

300

12 1 1/2" K bars

4

1 2 7/8" Perf Sub

1

1 26-K Shear Tool

32

1 2 7/8" BP Mud Anchor

20

1 2 1/2" x 1 1/2" X 20' rod pump w/ RH release

3468 btm

10

1 1 1/4" x 16' gas anchor

3423

btm

WELL HISTORY SUMMARY

12-Dec-96 Ran GR-CCL from 3684-2684'. Perf'd 3061'-63', 3066'-68', 3073'-3090', 3135'-38', 3148'-54', 3169'-72', 3182'-84', 3298'-3308', & 3353'-56' w/4 spf (192 holes total). Frac w/ 52,000 gals 30# borate XL 2% KCL carrying 268,000#s 12/20 brady sand. Pump tst 24 hrs - 27 bopd, 113 bwpd, 43 Mc/gpd.

3-Jul-97 C/O fill from 3482 - 3630' (148'). Returned to production

13-Feb-98 Changed out TAC, SN and rod pump.

18-Jan-99 Changed out 10 - 3/4" rod boxes, 10 - 7/8" rod boxes and rod pump.

5-Jan-00 Changed out MA and pump.

19-Jan-04 POOH with rods and pump. RIH with upsized pump (1 1/4" to 1 1/2") and rods. PWOP

26-Jul-04 POOH with rods and pump. Scanaloged tubing out of hole: 16 yellow, 67 blue, 10 green (31% to 40% wall loss), 8 green (41% to 50% wall loss), and 6 red. RIH with 1 blast jt, 13 yellow band, TAC, 3 yellow, 67 blue, 11 double band, and 14 single band tubing. Tagged bottom at 3590'. RIH with pump and rods. PWOP.

23-Sep-05 POOH with rods, pump and tubing. RIH with 4 3/4" bit, 10 - 3 1/2" drill collars. Tagged at 3523', cleaned out to 3715'. Drilled from 3715' to 3780', circulated frac sand. Perf'd f/ 3742'-48', 3716'-24', 3705'-08', 3674'-94', 3654'-56', 3636'-38', 3616'-22', 3586'-88', 3532'-46', 2512'-20', 3483'-93', 3452'-59', 3044'-52' & 3024'-40', 2 SPF, 180 degree phase, 224 holes.

Hydrotest 3 1/2" W/S to 7000#. Acidized perfs 3452'-3748' with 4,000 gals 15% NEFE acid. Diverted with 200 ball sealers - balled out 4 times (Pmax= 4200#). Frac'd with 121,080# 16/30 sand. Pavg= 2394# at 26.8 bpm. ISIP= 1922#. RIH with Notch Collar and tagged at 3780'. RIH with pump and rods. PWOP.

Jalmat

3024'-40'

3044'-52'

3061'-63'

3066'-68'

3073'-90'

3135'-38'

3148'-54'

3169'-72'

3182'-84'

3298'-3308'

3353'-56'

LM

3452'-59'

3483'-93'

3512'-20'

3532'-46'

3586'-88'

3616'-22'

3636'-38'

3654'-56'

3674'-94'

3705'-08'

3716'-24'

3742'-48'

Production Csg.

Hole Size: 7 7/8 in
Csg. Size: 5 1/2 in
Set @: 3800 ft
Sxs Cmt: 1150
Circ: Yes
TOC @: surface
TOC by: circ

PBTD: 3780 ft
TD: 3800 ft

PREPARED BY:

Larry S. Adams

D. Carrizales

UPDATED:

03-Oct-05