New Mexico Oil Conservation Division, District I
1625 N. French Drive
Hobbs, NM 88240

Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **NM 12612**

1a. Type of Well ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr,.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. **NM70962X**

2. Name of Operator **SDG Resources L. P.**

8. Lease Name and Well No. **Cooper Jal Unit #403**

3. Address **P. O. Box 1390 Montrose, CO 81402**

3a. Phone No. *(include area code)* **432-580-8500**

9. API Well No. **30 025 32286** 30-025-32286-00C1 00C2

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface **150 Feet from the NORTH line, 100 Feet from the WEST line, Sec. 19, T 24S, R 37E.**

At top prod. interval reported below

At total depth **150 Feet from the NORTH line, 100 Feet from the WEST line, Sec. 19, T 24S, R 37E**

10. Field and Pool, or Exploratory **JALMAT/LANGLIE MATTIX**

11. Sec., T., R., M., on Block and Survey or Area **Sec 19, T 24S, R 37E**

12. County or Parish **LEA**

13. State **NM**

14. Date Spudded **11/13/1993**

15. Date T.D. Reached **11/30/1993**

16. Date Completed ☐ D & A ☐ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* **3319 RKB**

18. Total Depth: MD **3,750'** TVD **3,750'**

19. Plug Back T.D.: MD **3,694'** TVD **3,694'**

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☑ No ☐ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	8 5/8"	24	Surf	400'		600 Class C		Surface	0
7 7/8"	5 1/2"	15.5	Surf	3,750'		950 Class C		Surface	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8"	3,676'	none						

25. Producing Intervals

Formation	Top	Bottom
A) Yates	3,008'	3,234'
B) 7-Rivers	3,234'	3,593'
C) Queen	3,593'	3,780'
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
3,010'-3,234'		208	open
3,290'-3,580'		124	open
3,580'-3,663'		34	open

Received Hobbs OCD APR 2005

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/20/1902	11/25/2002	24		10	14	270	35.7		Pumping
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate →**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas/Oil Ratio**	**Well Status**	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/20/2002	11/25/2002	24		6	1	180	35.7		Pumping
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate →**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas/Oil Ratio**	**Well Status**	

(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD
(ORIG. SGD.) DAVID R. GLASS
APR 4 2005
DAVID R. GLASS
PETROLEUM ENGINEER

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate →**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas/Oil Ratio**	**Well Status**	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate →**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas/Oil Ratio**	**Well Status**	

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth

32. Additional remarks (include plugging procedure):

33. Indicate which itmes have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

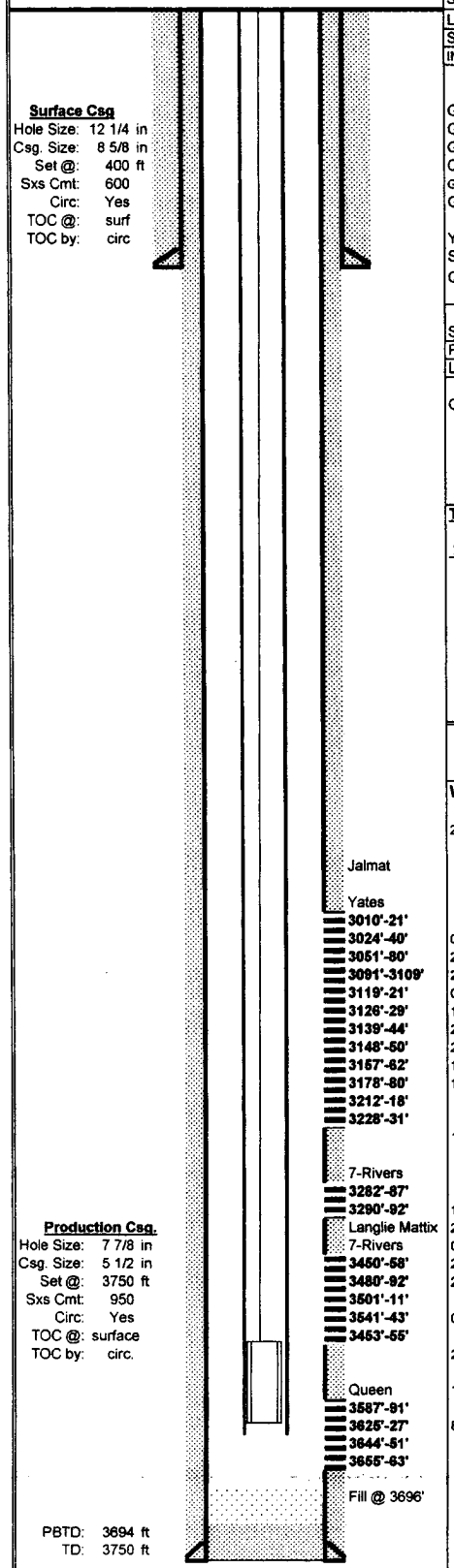
Name *(please print)* **Domingo Carrizales** Title **Sr. Petroleum Engineer**

Signature Domingo Carrizales Date **03/24/2005**

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC



LEASE NAME	**Cooper Jal Unit**		WELL NO. **403**
STATUS:	Active (11-16-98) Oil		API# 30-025-32286
LOCATION:	150 FNL & 100 FWL, Sec 19, T - 24S, R - 37E; Lee County, New Mexico		
SPUD DATE:	11/13/93 TD 3750	KB 3,319'	DF
INT. COMP. DATE:	02/11/94 PBTD 3694	GL 3,308'	

GEOLOGICAL DATA

ELECTRIC LOGS:
GR-DLL-MSFL (11-20-93 Halliburton)
GR-SDL-DSN-CSNG (11-20-93 Halliburton)
GR-FWS (11-20-93 Halliburton)
Computer Analyzed Log (11-20-93 Halliburton)
GR-CCL (11-28-93 Halliburton)
GR-CCL (10-9-97 Schlumberger)

CORES, DST'S or MUD LOGS:
Core 1: 2995 - 3055' (60' recovery)
Core 2: 3055 - 3115' (60' recovery)
Core 3: 3115 - 3175' (60' recovery)
Core 4: 3175 - 3225' (60' recovery)

HYROCARBON BEARING ZONE DEPTH TOPS:
Yates @ 3008'
Seven Rivers @ 3234'
Queen @ 3641'

CASING PROFILE

SURF.	8 5/8" - 24#, WC-50, ST&C set@ 400'. Cmt'd w/250 sxs - circ cmt to surface.
PROD.	5 1/2" - 15.5#, WC-50, LT&C set@ 3750' Cmt'd w/950 sxs - circ cmt to surface.
LINER.	None

CURRENT PERFORATION DATA

CSG. PERFS:
3010 - 21', 3024 - 40', 3051 - 80', 3091 - 3109',
3119 - 21', 3126 - 29', 3139 - 44', 3148 - 50', 3153 - 55',
3157 - 62', 3178 - 80', 3212 - 18', 3228 - 31', 3282 - 87'
& 3290 - 92' w/ 2 spf (222 holes total)

OPEN HOLE :
3450 - 58', 3480 - 92', 3501 - 11', 3541 - 43',
3553 - 55', 3587 - 91', 3625 - 27', 3644 -51'
& 3655 - 63' w/ 2 spf (110 holes total)

TUBING DETAIL 12/17/2004

Length (ft)		Detail
10		KB
2832	90	2 7/8" J-55 6.5# 8rd tubing
3	1	5 1/2" x 2 7/8" TAC
722	24	2 7/8" J-55 6.5# 8rd tubing
32	1	2 7/8" Super Max Blast Joint
1	1	2 1/2" SN
8	1	2 7/8" SS Well Screen
30	1	Perf. Sub. And MAJ
3638		

ROD DETAIL 12/17/2004

Length (ft)		Detail
14	1	1 1/4" x 26' PR w/ 7/8" pin
0	1	1 1/4" x 1 1/2" x 14' liner
4	1	7/8" pony rod
16	1	8', 8', 7/8" pony rod
1575	42	1" Fiber Glass Rods
1525	61	7/8" rods
425	17	1 1/2" K-Bars
1	1	21K Sheer Tool
25	1	1 1/2" K-Bar
20	1	2 1/2" x 2" x 20' RWBC Pump
3605		

WELL HISTORY SUMMARY

24-Nov-93	**Initial completion: Perf'd 3450 - 58', 3480 - 92', 3501 - 11', 3541 - 43', 3553 - 55', 3587 - 91', 3625 - 27', 3644'-51', & 3655'-63'** w/ 2 spc. (110 holes total) Frac'd w/29,000 gals XLG 2% KCL carrying 136,000#'s 16/30 brady sand. Pump test 24 hours - 1 BOPD, 114 BWPD, and 24 MCFPD. **Perf'd 3010 - 21', 3024 - 40', 3051 - 80', 3091 - 3109', 3119'-21', 3126'-29', 3139'-44', 3148'-50', 3153'-55', 3157'-62', 3178 - 80', 3212 - 18', 3228 - 31', 3282 - 87' & 3290 - 92'** w/ 2 spf (222 holes total). Frac'd w/43,000 gals XLG 2% KCL carrying 220,000# 12/20/ sand. Pump tst 24 hours - 32 bopd, 183 blwpd, & 11 Mcfgpd. Commingled all perfs - **IP=33 bopd, 267 bwpd, & 23 MCFPD.**
05-Jan-94	NMOCD Potential test: 32 bopd, 183 bwpd, & 11 Mcfgpd
29-Apr-94	Replaced rod pump.
21-May-94	Replaced rod pump.
03-Mar-94	Replaced rod pump. Tst tbg. Good tst.
16-Aug-94	C/O 30' of fill. Replaced rod pump.
21-Jan-95	Repaired rod part - replaced rod pump, 47 - 3/4" boxes, 40 -7/8" boxes, & 36 - 1" boxes. Tst tbg. Good tst.
23-Sep-96	Repaired rod part - replaced rod pump and 6 - 3/4" rods.
10-Oct-97	**Set CIBP @ 3420' & dump'd 35' of cmt on top. TOC @ 3385'.** Repaired rod part - replaced rod pump and ran new string of rods.
12-Nov-98	**Set CIBP @ 2950'** & dump'd 35' of cmt on top. **TOC @ 2915'.** Displaced csg with pkr fluid & tst csg to 550 psi. Good tst. **Well TA'd 11-16-98.**
11-Nov-02	**Re-enter T/A'd Well.** RIH with 4 3/4" bit and 6 - 2 1/2" Drill Collars on 2 7/8" tubing. Tagged cement at 2933'. Test casing to 550# - held. Drilled cement and CIBP at 3048'. Tagged cement of second plug at 3382', drilled cemnt and CIBP at 3421'. **Drilled and pushed CIBP to 3696'** circ. well clean. 2790 bbls of water to complete job. Used 5 gallons Corrosion inhibitor, and ran production equipment. **Status change: T/A'd to producing!**
18-Nov-02	Lay 1150' of 2" poly flowline from CJU #403 to CJU #202 and tie in.
27-Dec-02	POOH with rods and pump. Pump was stucked. POOH with 2 7/8" tubing, Bailed out sand to 3685'. RIH with production string.
08-Jan-03	POOH with rods, pump, and 101 - 2 7/8" tubing. Changed out pump. Placed well on production.
23-May-03	R/P body break 114 rods from surface. Change rd design to reduce rod load & slow down unit spm. Pump was good.
29-Jul-03	POOH with rods, pump, and tubing. Changed out pump. Hydrotest tubing in hole - busted 3 joints. Tagged bottom at 3692', tally out of hole.RIH with pump, rods, and tubing. Added 13 joints to tubing string.
04-Dec-03	POOH and laid down sub pump. RIH with new 114 joints 2 7/8" tubing and tagged at 2704'. Set TAC with 12,000#. RIH with pump and rods. Placed well on production.
26-May-04	POOH with rods and pump. **Tagged fill at 3696'** and tally out of hole. Hydrotest tubing in hole to 7,000#. Set TAC with 16,000#. Rih with pump and rods. Laid down 6 joints due to outside corrosion. Changed out 12 - 7/8" & 18 - 3/4" boxes due to wear. PWOP.
16-Dec-04	POOH with rods without stucked pump. POOH with 2 7/8" tubing. Hydrotest tubing in hole - found 1 split 94th joint. Laid down bott 12 joints due to pits. RIH with production string with Super Max blast joint. PWOP.
8-Jan-05	Unseat pump, pumped 40 bbls water with soap. PWOP.

PREPARED BY: Larry S. Adams D. Carrizales | UPDATED: 07-Feb-05