

4.28.05

DATE IN

SUSPENSE

ENGINEER

Jones

LOGGED IN

4.29.05

TYPE

DHC
3445

APP NO.

psem0511933189

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

e-mail Address

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION TYPE
Yes Single Well
Yes Establish Pre-Approved Pools
EXISTING WELLBORE
Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

SDG Resources P. O. Box 1390 Montrose, CO 81402

Operator Cooper Jal Unit # 141 D Address 30 24-S 37-E Lea

Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 193003 Property Code 10917 API No. 30-025-11292 Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	JALMAT		LANGLIE MATTIX
Pool Code	33820		37240
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2,980'-3,146'		3,410'-3,535'
Method of Production (Flowing or Artificial Lift)	Pumping		
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	35.7 Degree API		35.7 Degree API
Producing, Shut-In or New Zone	Producing		New Zone
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 04/01/05 Rates: 5/4/120	Date: Rates:	Date: 10/04/1993 Rates: 3/5/100
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 94 % Gas 71 %	Oil % Gas %	Oil 6% Gas 29 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes X No
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No

Are all produced fluids from all commingled zones compatible with each other? Yes X No

Will commingling decrease the value of production? Yes No X

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes No X

NMOCD Reference Case No. applicable to this well:

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Domingo Carrizales TITLE Sr. Petroleum Engineer DATE 04/01/05

TYPE OR PRINT NAME Domingo Carrizales TELEPHONE NO. (432) 580-8500

E-MAIL ADDRESS domingo@sdgresources.com

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-025-11292	² Pool Code JALMAT: 03020 011	³ Pool Name JALMAT: Tansill, Yates, 7RVRS
⁴ Property Code 10917	⁵ Property Name Cooper Jal Unit	⁶ Well Number 141
⁷ OGRID No. 193803	⁸ Operator Name SDG Resources L. P. P. O. Box 1390	⁹ Elevation Montrose, CO 81402 3,279' K. B.

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	30	24S	37E		330	NORTH	330	WEST	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

³⁰				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Domingo Carrizales Printed Name Sr. Petroleum Engineer domingo@sdgresources.com Title and E-mail Address 05/09/05 Date
				¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

District I

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☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-025-11292	² Pool Code 37240	³ Pool Name Langlie Mattix: 7RVRS, Queen, Grayburg
⁴ Property Code 10917	⁵ Property Name Cooper Jal Unit	⁶ Well Number 141
⁷ OGRID No. 193003	⁸ Operator Name SDG Resources L. P. P. O. Box 1390 Montrose, CO 81402	⁹ Elevation 3,279' K. B.

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	30	24S	37E		330	NORTH	330	WEST	Lea

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WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC

LEASE NAME

Cooper Jal Unit

WELL NO.

141

STATUS: Active

Oil

API#

30-025-11292

LOCATION: 330 FNL & 330 FWL, Sec 30, T - 24S, R - 37E; Lee County, New Mexico

SPUD DATE: TD 3535 KB 3,292' DF

INT. COMP. DATE: 09/09/55 PBTD 3335 GL 3,279'

GEOLOGICAL DATA

ELECTRIC LOGS:

CORES, DST'S or MUD LOGS:

GR-N from surface - 3535' (9-6-55 Lane Wells)
Temperature Survey (9-1-55 Halliburton)
GR-CCL from 2800 - 3425' (10-5-93 Halliburton)

HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 2980'
Seven Rivers @ 3210'

CASING PROFILE

SURF. 8 5/8" - 24#, J-55 set@ 1140' Cmt'd w/700 sxs - circ cmt to surf.
PROD. 5 1/2" - 14#, J-55 set@ 3410' Cmt'd w/400 sxs - TOC @ 2240' from surface by Temp. Survey.
LINER None

CURRENT PERFORATION DATA

CSG. PERFS:

OPEN HOLE:

2980 - 91', 2994 - 99', 3004 - 11', 3016 - 38', 3410 - 3535'
3042 - 52', 3058 - 62', 3065 - 88', 3090 - 3100' Isolated below CIBP @ 3370'
3112 - 36', 3141 - 46' w/ 2 spf (202 holes total - 0.56 dia., 120 deg phasing)

TUBING DETAIL 2/27/2004

ROD DETAIL 2/27/2004

Length (ft)	Detail	Length (ft)	Detail
2912	90 2 7/8" 6.5#, J-55, 8rd EUE tbg.	26	1 26' x 1 1/4" polish rod w/7/8" pin
3	1 5 1/2" x 2 7/8" TAC	0	1 1 1/4" x 1 1/2" x 14' liner
271	9 2 7/8" 6.5#, J-55, 8rd EUE tbg.	1000	40 1" D steel rods
4	1 2 7/8" perf Sub	1875	75 7/8" D steel rods
1	1 2 7/8" SN	250	10 1 1/2" sinker bars
32	1 3 1/2" Mud Anchor	20	1 2 1/2" x 1 3/4" X 17" RHBC
3222		0	1 1 1/4" x 12' gas anchor
	SN@ 3186' TAC@ 2915'	3171	

TOC @ 2240'
By TS

WELL HISTORY SUMMARY

9-Sep-55 IC Interval: 3410 - 3535' (7 RVRS/Queen OH). Acld'd w/ 500 gals mud acid. Frac'd w/4,000 gals ise oil / 10,000#s sand. IP= 141 bopd, 0 bwpd, & 133.5 Mcf/gpd (flowing)
18-Aug-71 CONVERTED WELL TO INJECTION: C/O to TD @ 3535. Ran 2 3/8" CL tbg & pkr. Set pkr @ 3370. Initiated injection.
28-Sep-74 Replaced 1 jt tbg. Return to injection.
30-Mar-77 Replaced 1 jt tbg. Return to injection.
6-Feb-93 C/O fill 3416 - 3535'. Acld'd w/5,000 gals 15% w/3% mutual solvent in 3 stages using 500# rock salt each for diversion.
4-Oct-93 Set CIBP @ 3370'. Dmp 35' cmt on top of CIBP. PBTD@ 3335'. Perf'd 2980 - 3146' (10 intervals, 2 spf, 202 holes total).
Frac perfs w/41,000 gals 30# X-L gel carrying 183,600#s 12/20 sand & 40,580#s resin coated 12/20 sand. AIR=34.5 bpm, Pmax=1923 psi. ISIP=1380 psi, P15min=1066 psi. C/O sand from 3180 - 3335'. Install tbg, pmp, & rods. Placed well on production.
After WO: 46 bopd, 422 bwpd, & 16 Mcf/gpd.
17-Feb-95 Replaced 1 bad jt tbg. Returned well to production.
9-Oct-95 Change out pmp. Returned well to production.
7-Oct-97 Ran tbg inspection. Replaced 22 jts of tbg. Ran new gas anchor & pmp on rods. Placed well on production.
14-Oct-99 Replaced 1 bad jt tbg. Returned well to production.
27-Mar-00 Change out pmp. Returned well to production.
27-Feb-04 POOH with rods and pump. Tagged at 3282'. POOH with tubing. Hydrotest tubing to 7000# - found hole 3 joints above SN. RIH with pump and rods. PWOP.

2980'-91'
2994'-99'
3004'-11'
3016'-38'
3042'-52'
3058'-62'
3090'-3100'
3112'-36'
3141'-46'

TOC @ 3335'
CIBP @ 3370'

OH Interval
3410 - 3535'

Surface Csg

Hole Size: 11 in
Csg. Size: 8 5/8 in
Set @: 1140 ft
Sxs Cmt: 700
Circ: Yes
TOC @: surf
TOC by: circ

Production Csg.

Hole Size: 7 7/8 in
Csg. Size: 5 1/2 in
Set @: 3410 ft
Sxs Cmt: 400
Circ: No
TOC @: 2240 f / surf.
TOC by: TS

PBTD: 3335 ft
TD: 3535 ft

OH ID: 4 3/4 in

PREPARED BY:

Larry S. Adams

D. Carrizales

UPDATED:

08-Apr-04