

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

District I
1625 N. French Drive, Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED

Form C-107A
Revised June 10, 2003

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

AUG 29 2005

APPLICATION TYPE

Yes ☐ Single Well

Yes ☐ Establish Pre-Approved Pools

EXISTING WELLBORE

X Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

SDG Resources

P. O. Box 1390

Montrose, CO 81402

Operator

Cooper Jal Unit

115

1

13

24-S

36-E

Lea

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 193003 Property Code 29159 API No. 30-025-09566 Lease Type: Federal State Fee X

| DATA ELEMENT | UPPER ZONE | INTERMEDIATE ZONE | LOWER ZONE |
|--|-----------------------------------|-------------------|--------------------|
| Pool Name | JALMAT | | LANGLIE MATTIX |
| Pool Code | 33020 | | 37240 |
| Top and Bottom of Pay Section (Perforated or Open-Hole Interval) | 3,020'-3,400' | | 3,400'-3,668' |
| 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: 12/20/04 Rates: 8/12/175 | Date: Rates: | Date: Rates: |
| Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.) | Oil Gas 94 % 71 % | Oil Gas % % | Oil Gas 6% 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 8/24/05

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

E-MAIL ADDRESS domingo@sdgresources.com

WELLBORE SCHEMATIC AND HISTORY

| CURRENT COMPLETION SCHEMATIC | | LEASE NAME Cooper Jal Unit | | WELL NO. 115 | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--------------------------|--|-------------|--------|------|--------------------------------------|-----|-----------------------------------|----|---|-----|----------------------------------|------|--------------------|-----|----------------------------|----|-------------------------------|------|-----------------------|------|--|
| <p>Conductor Csg Csg. Size: 13 3/8 in Set @: 30 ft Sxs Cmt: 20 Circ: Yes TOC @: surf TOC by: circ</p> <p>Surface Csg Hole Size: 12 1/4 in Csg. Size: 9 5/8 in Set @: 1182 ft Sxs Cmt: 550 Circ: Yes TOC @: surf TOC by: circ</p> <p>Production Liner Hole Size: 6 1/2 in Csg. Size: 4 1/2 in Top: 2942 Btm: 3668 ft Sxs Cmt: 750 TOC @: TOL TOC by: circ</p> <p>Production Csg Hole Size: 8 3/4 in Csg. Size: 7 in Set @: 3015 ft Sxs Cmt: 300 Circ: No TOC @: 1190 ft // surf TOC by: calc</p> <p>PBTD: 3180 ft TD: 3668 ft</p> | | <p>STATUS: Active Oil</p> <p>LOCATION: 990 FSL & 990 FEL, Sec 13, T - 24S, R - 36E, Lee County, New Mexico</p> <p>SPUD DATE: 05/07/47 TD 3668 KB 3,337' DF</p> <p>INT. COMP. DATE: 05/12/47 PBTD 3180 GL 3,327'</p> | | <p>API# 30-025-09566</p> | | | | | | | | | | | | | | | | | | | | | |
| | | <p>ELECTRIC LOGS: GR-CCL-CBL from 3188 - 2900' (6-27-95 Halliburton) GR-N from 2880 - 3505 (5-6-47 Lane Wells) GR-N from 2880 - 3667 (3-18-75 Apache Services) GR-N (12-16-64 Welex)</p> <p>HYDROCARBON BEARING ZONE DEPTH TOPS: Yates @ 3020' Seven Rivers @ 3246' Queen @ 3670'</p> | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p>CASING PROFILE</p> <p>COND. 13 3/8" - 32# set @ 30'. Cmt'd w/20 sxs - TOC @ surf</p> <p>SURF. 9 5/8" - 36# J-55 set @ 1182' Cmt'd w/550 sxs - circ cmt to surf.</p> <p>PROD. 7" - 24# J-55 set @ 3015' Cmt'd w/300 sxs - TOC @ 1114', Calc - 80%</p> <p>LINER 4 1/2" - 10.6# H-40 set from 2942' - 3668' Cmt'd w/750 sxs circ out TOL</p> | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p>CURRENT PERFORATION DATA</p> <p>CSG. PERFS: 3046' (2 holes), 76', 3106', 36', & 53 (6 holes total) 3100 - 20' w/4 spf (24 holes) 3221', 23', 25', 27', 37', 39', 41', 95', 97', 99', 3301', & 03' (12 holes total) 3426', 35', 46', 3458 - 68', 3486-96', & 3510 - 18' w/ 1 spf (34 holes)</p> <p>OPEN HOLE:</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>TOC @ 1114' Calc - 80%</p> | | <p>TUBING DETAIL 6/9/04</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Detail</th> </tr> </thead> <tbody> <tr><td>2792</td><td>88 2 7/8" 4.7#, J-55, 8rd EUE tbg.</td></tr> <tr><td>195</td><td>6 2 3/8" 4.7#, J-55, 8rd EUE tbg.</td></tr> <tr><td>3</td><td>1 4 1/2" x 2 3/8" TAC</td></tr> <tr><td>31</td><td>1 2 3/8", 4.7#, J-55 8rd EUE tbg</td></tr> <tr><td>1</td><td>1 2 3/8" OD - S.N.</td></tr> <tr><td>4</td><td>1 2 3/8" x 4 1/2" Perf Sub</td></tr> <tr><td>32</td><td>1 2 3/8" OEMA</td></tr> <tr><td>3058</td><td></td></tr> </tbody> </table> | | | | Length (ft) | Detail | 2792 | 88 2 7/8" 4.7#, J-55, 8rd EUE tbg. | 195 | 6 2 3/8" 4.7#, J-55, 8rd EUE tbg. | 3 | 1 4 1/2" x 2 3/8" TAC | 31 | 1 2 3/8", 4.7#, J-55 8rd EUE tbg | 1 | 1 2 3/8" OD - S.N. | 4 | 1 2 3/8" x 4 1/2" Perf Sub | 32 | 1 2 3/8" OEMA | 3058 | | | |
| Length (ft) | Detail | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3058 | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>SN @ 3031' TAC @ 2997'</p> | | <p>ROD DETAIL 6/9/2004</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Detail</th> </tr> </thead> <tbody> <tr><td>16</td><td>1 Polish Rod 1 1/4" x 22' w/7/8" Pin</td></tr> <tr><td>0</td><td>1 1 1/4" x 1 1/2" x 12' liner</td></tr> <tr><td>24</td><td>2 3-2", 1-4", 1-6", 1-8" - 7/8" pony rods</td></tr> <tr><td>875</td><td>35 35- 7/8" rods</td></tr> <tr><td>1900</td><td>76 76- 3/4" rods</td></tr> <tr><td>200</td><td>8 8 - 1 1/2" sinker bars</td></tr> <tr><td>16</td><td>1 2" x 1 1/2" x 16" RWBC Pump</td></tr> <tr><td>0</td><td>1 1" x 12" gas anchor</td></tr> <tr><td>3031</td><td></td></tr> </tbody> </table> | | | | Length (ft) | Detail | 16 | 1 Polish Rod 1 1/4" x 22' w/7/8" Pin | 0 | 1 1 1/4" x 1 1/2" x 12' liner | 24 | 2 3-2", 1-4", 1-6", 1-8" - 7/8" pony rods | 875 | 35 35- 7/8" rods | 1900 | 76 76- 3/4" rods | 200 | 8 8 - 1 1/2" sinker bars | 16 | 1 2" x 1 1/2" x 16" RWBC Pump | 0 | 1 1" x 12" gas anchor | 3031 | |
| Length (ft) | Detail | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 1 Polish Rod 1 1/4" x 22' w/7/8" Pin | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 1 1/4" x 1 1/2" x 12' liner | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 2 3-2", 1-4", 1-6", 1-8" - 7/8" pony rods | | | | | | | | | | | | | | | | | | | | | | | | |
| 875 | 35 35- 7/8" rods | | | | | | | | | | | | | | | | | | | | | | | | |
| 1900 | 76 76- 3/4" rods | | | | | | | | | | | | | | | | | | | | | | | | |
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| 0 | 1 1" x 12" gas anchor | | | | | | | | | | | | | | | | | | | | | | | | |
| 3031 | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>WELL HISTORY SUMMARY</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>12-May-47 Initial completion interval: 3015 - 3505': IP=145 bopd, 0 bwpp; GOR=4000 (flowing), ISIP=1175 psi. C/O and Frac w/ 10,000 gals is oil & 10,000#s sand w/ 500 gals diverter. AIR=21 bpm @ 700 psi. IP=140 bopd @ FTP=60 psi. (after load recovery)</p> <p>23-Mar-55 C/O 235' of fill and deepened to 3662'. After WO: 5 bopd & 0.5 bopd</p> <p>28-Jul-73 C/O fill from 3456 - 3668'. Set 4 1/2", 10.6#, H-40 liner from 2942-3668'. Cmt'd w/ 750 sxs class "H" cmt. Had to drtg cmt from 1138-3668'. Test TOL to 1100 psi. OK. Perf'd w/1 spf 3426', 35', 46', 3458-68', 3486-96', & 3510-18' (34 holes total)</p> <p>17-Mar-75 Acid'd perfs w/2,500 gals 15% HCL & 45 ball sealers. Frac'd w/40,000 gals trid wtr, 30,000#s 20/40 sand, 10,000#s 10/20 sand, & 30 ball sealers. AIR=20 bpm @ 2400 psi. Tagged sand @ 3560'. Did not C/O sand.</p> <p>22-Mar-75 Installed new Bethlehem 228D Pumping Unit</p> <p>10-Apr-75 C/O sand from 3507 - 67' (60') After WO: 41 bopd & 123 bwpp</p> <p>23-Jun-75 C/O sand from 3545 - 3663'. After WO: 56 bopd & 114 bwpp</p> <p>02-May-78 Set RBP @ 3370'. Perf'd 3221-3303 (12 holes) & acid'd w/3,000 gals 15% HCL & 12 ball sealers. AIR=3 bpm @ 1475 psi. React'd w/1,000 gals 15% HCL followed by 2,000 gals mud acid w/Musol "A" solvent. AIR=2 1/2 bpm @ 800 psi. Reset RBP @ 3181'. Perf'd 3046 - 3153' (6 holes). Acid'd w/2,000 gals 15% HCL & 4 ball sealers. AIR=3 bpm @ 800 psi. React'd w/1,000 gals 15% HCL followed by 2,000 gals mud acid w/Musol "A" solvent. POOH w/ RBP. Placed well on production. Before WO: 32 bopd & 131 bwpp. After WO: 61 bopd & 206 bwpp</p> <p>17-Mar-86 C/O fill 3480 - 3662.</p> <p>22-Dec-87 Tag fill @ 3632'.</p> <p>27-Jun-95 Set 4 1/2" CIBP @ 3200' and dmp 20" cmt on top. Ran CBL-GR-CCL from 3188-2900'. Perf'd (Jalmit) 3100'-20' w/3 1/8" gun, 120 deg phasing & 4 spf. Set pkr @ 2921' & acid'd perfs w/2,100 gals 15% NEFE acid dropping 120 - 7/8" RCN ball sealers. AIR=8 bpm @ 1050 psi. No ball action. ISIP=520 psi. P5min=vacuum. Frac perfs using 53,836 gals gelled 2% KCl carrying 224,160#s 12/20 brady sand. AIR=40 bpm. PM=3270 - 2421 psi. ISIP=1094 psi. C/O sand w/bailer from 2960 - 3136'. Ran prod equip. Placed well on production. Avg Prod = 38 bopd & 82 bwpp over 20 day period. Tagged TD 3098' & POOH. Left 6' of 3 1/2" Mud Anchor in hole w/ TOF @ 3098' by tbg tally. Wash over and recover 4' of orange peel MA. Test 99 Jts 2 3/8" tubing in hole. SN at 3155.5', TAC @ 2696.55'.</p> <p>09-Jan-01 Changed out insert pump.</p> <p>27-Dec-01 Pulled tubing - 90 Jts. Ran with 87 Jts of tubing. Changed out pump.</p> <p>21-Feb-02 Pulled stucked pump, tubing string, & TAC. Ran 96 Jts. 2 3/8" tubing.</p> <p>30-Sep-02 Replaced bad rod boxes and pump. Installed rod guides.</p> <p>08-Nov-02 Pull rods, pump, and tubing string. Found 4 pitted 3/4" rods. Hydrotest tubing in hole. Change out pump.</p> <p>30-May-03 Parted 3/4" rod (body break) 42 rods from surface. Laid down 6 - 3/4" rods due to pitting. Changed out pump; PWOP.</p> <p>16-Dec-03 POOH with rods and pump. Tagged at 3070', tally out of hole. Bailed from 3070' to 3092'. Could not make any more hole - recovered scale, iron sulfide, and pieces of tbg. RIH with tubing, plunger, and rods. PWOP.</p> <p>11-Mar-04 Parted 3/4" rod (body break) 63 rods from surface. Changed out parted rod and pump. PWOP.</p> <p>12-May-04 Parted 3/4" rod (body break) 111 rods down. POOH with rod and plunger, laid down 39 - 3/4" pitted rods. POOH with tubing. RIH with 2 3/8" and 2 7/8" tapered string tubing. RIH with pump and rods. PWOP.</p> <p>08-Jun-04</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>3046' & 3076'</p> <p>3100'-3120'</p> <p>3136' & 3153'</p> <p>TOC @ 3180'</p> <p>CIBP @ 3200'</p> <p>3221'</p> <p>3303'</p> <p>3426'-3446'</p> <p>3458'-3468'</p> <p>3486'-3496'</p> <p>3510' - 3518'</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>PREPARED BY: Larry Adams D. Carrizales</p> <p>UPDATED: 6/15/2004</p> | | | | | | | | | | | | | | | | | | | | | | | | | |

1220 S. St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

| | | | | |
|----|--|--|--|---|
| 13 | | | | <p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Domingo Carrizales</u></p> <p>Signature</p> <p><u>Domingo Carrizales</u></p> <p>Printed Name</p> <p>Sr. Petroleum Engineer <u>domingo@sdgresources.com</u></p> <p>Title and E-mail Address</p> <p><u>8/24/05</u></p> <p>Date</p> |
| | | | | <p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> |
| | | | | <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> |
| | | | | <p>Certificate Number</p> |

990'

900'

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

Fee Lease - 3 Copies

☐ AMENDED REPORT

| | | | |
|---|---|---|--|
| ¹ API Number 30-025-09566 | ² Pool Code 33020 | ³ Pool Name JALMAT: Tansill, YATES, 7RVRS | |
| ⁴ Property Code 10917 | ⁵ Property Name Cooper Jal Unit | | ⁶ Well Number 115 |
| ⁷ OGRID No. 193003 | ⁸ Operator Name SDG Resources L. P. P. O. Box 1390 Montrose, CO 81402 | | ⁹ Elevation 3,327' K. B. |

| | | | | | | | | | |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| I | 13 | 24S | 36E | | 900 | SOUTH | 990 | EAST | Lea |

| 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. |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|

| | | | | |
|----|--|--|--|--|
| 13 | | | | <div data-bbox="1057 970 1510 1005"><p>17 OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p><p><u>Domingo Carrizales</u> Signature</p><p>Domingo Carrizales Printed Name</p><p>Sr. Petroleum Engineer domingo@sdgresources.com Title and E-mail Address</p><p>8/24/05 Date</p></div> |
| | | | | <div data-bbox="1057 1476 1510 1696"><p>18 SURVEYOR CERTIFICATION</p><p>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.</p></div> <div data-bbox="1057 1703 1510 1938"><p>Date of Survey</p><p>Signature and Seal of Professional Surveyor:</p><p>Certificate Number</p></div> |

Lease Name: COOPER JAL UNIT
 County, State: LEA, NM
 Operator: SDG RESOURCES LIMITED PARTNERSHIP
 Field: JALMAT
 Reservoir: TANSILL-YATES-SEVEN
 Location: 13 24S 36E

CSU # 115
 COOPER JAL UNIT - JALMAT

