

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

RECEIVED  
Energy, Minerals and Natural Resources Department

AUG 28 2003

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505  
OIL CONSERVATION DIVISION  
APPLICATION FOR DOWNHOLE COMMINGLING

3191

Form C-107A  
Revised June 10, 2003  
APPLICATION TYPE  
Yes ☐ Single Well  
Yes ☐ Establish Pre-Approved Pools  
EXISTING WELLBORE  
☐ X ☐ Yes ☐ No

SDG Resources	P. O. Box 1390	Montrose, CO 81402
Operator	Cooper Jal Unit	#102
Lease	Well No.	Unit Letter-Section-Township-Range
OGRID No.	Property Code	API No. 30-025-11134
		Lease Type: <input type="checkbox"/> Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	JALMAT		LANGLIE MATTIX
Pool Code			
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2912'-3204'		3382'-3737'
Method of Production (Flowing or Artificial Lift)	Pumping		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	New Zone		Re-entry
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: 07/15/03 Rates: 4 BOPD, 90 MCFPD	Date: Rates:	Date: 03/05/03 Rates: 8 BOPD, 10 MCFPD
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 33 % 90 %	Oil Gas % %	Oil Gas 66% 10 %

### 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 08/22/03

TYPE OR PRINT NAME Domingo Carrizales TELEPHONE NO. ( 432 ) 550-7580

E-MAIL ADDRESS domingo@sdgresources.com

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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**

<sup>1</sup> API Number 30-025-11134	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name JALMAT: YATES, 7RVR5
<sup>4</sup> Property Code	<sup>5</sup> Property Name Cooper Jal Unit	<sup>6</sup> Well Number 102
<sup>7</sup> OGRID No.	<sup>8</sup> Operator Name SDG Resources L. P. P. O. Box 1390 Montrose, CO 81402	<sup>9</sup> Elevation 3302' G. L.


<sup>10</sup> Surface Location


UL or lot no. B	Section 18	Township 24S	Range 37E	Lot Idn	Feet from the 660	North/South line North	Feet from the 1980	East/West line East	County Lea
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<sup>11</sup> Bottom Hole Location If Different From Surface

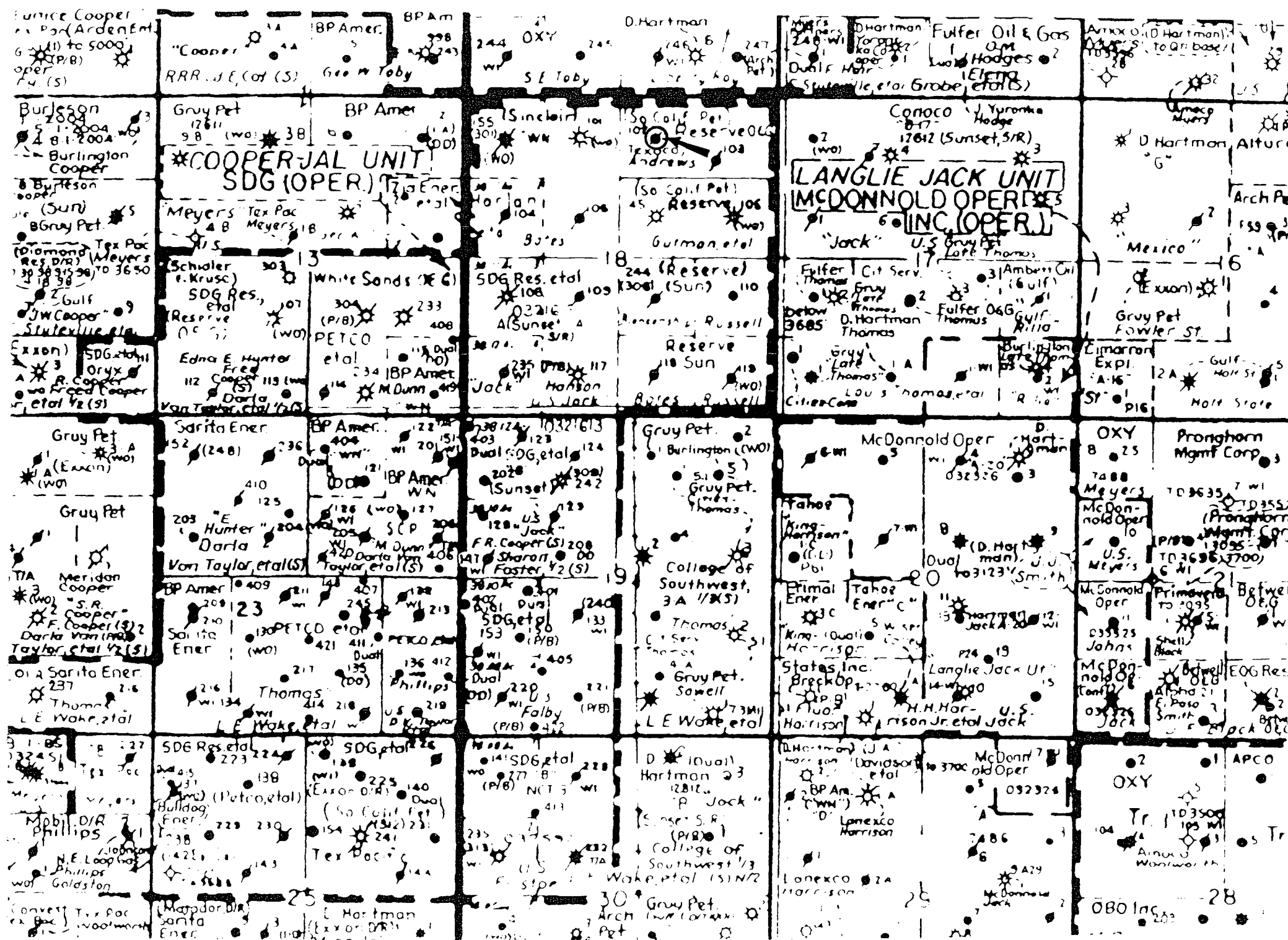
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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

<sup>16</sup>				<sup>17</sup> 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 08/22/03 Date
				<sup>18</sup> 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

16					<b>17 OPERATOR CERTIFICATION</b> 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 08/22/03 Date 18 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
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CURRENT COMPLETION SCHEMATIC		LEASE NAME		Cooper Jal Unit		WELL NO. 102			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Surface Casg</b>  Hole Size: 17 1/2 in  Csg. Size: 13 3/8 in  Set @: 66 ft  Sxs Cmt: 70  Circ: Yes  TOC @: surf  TOC by: circ</p> <p><b>Intermediate Casg</b>  Hole Size: 12 1/4 in  Csg. Size: 8 5/8 in  Set @: 1240 ft  Sxs Cmt: 250  Circ: No  TOC @: 690 ft f / surf.  TOC by: calc.</p> <p><b>Production Casg.</b>  Hole Size: 7 7/8 in  Csg. Size: 5 1/2 in  Set @: 3462 ft  Sxs Cmt: 200  Circ: No  TOC @: 2410 ft f / surf  TOC by: calc.</p> <p>PBTD: 3580 ft  TD: 3580 ft</p> </div> <div style="width: 50%;"> <p>cmt plug 300' - surf.</p> <p>9.5 ppg gel brine</p> <p>TOC @ 690' by calc.</p> <p>TOC @ 1135'</p> <p>perf 6 holes @ 1450'</p> <p>9.5 ppg gel brine</p> <p>TOC @ 2410' By Calc.</p> <p>cmt plug 2970 - 2700'</p> <p>9.5 ppg gel brine</p> <p>25 sxs cmt CIBP @ 3400'</p> <p>OH Interval 3462 - 3580'</p> <p>OH ID: ## in</p> </div> </div>		<p>STATUS: P&amp;A'd (2-28-00) Oil</p> <p>LOCATION: 660 FNL &amp; 1980 FEL, Sec 18, T - 24S, R - 37E; Lee County, New Mexico</p> <p>SPUD DATE: TD 3580 KB 3,312' DF</p> <p>INT. COMP. DATE: 09/05/45 PBTD 3580 GL 3,302'</p>		<p><b>ELECTRIC LOGS:</b> NONE LISTED or IN FILE</p> <p><b>HYDROCARBON BEARING ZONE DEPTH TOPS:</b> Yates @ 2920' Seven Rivers @ 3150' Langille Matbr @ 3462'</p> <p><b>CASING PROFILE</b>  SURF. 13 3/8" - 48#, H-40 set @ 66' Cmt'd w/70 sxs - circ cmt to surf.  INTR. 8 5/8" - 22.7#, H-40 set @ 1240' Cmt'd w/250 sxs - TOC calc. @ 690' from surf.  PROD. 5 1/2" - 14#, J-55 set @ 3462' Cmt'd w/100 sxs - TOC calc. @ 2410' from surf.</p> <p><b>CURRENT PERFORATION DATA</b>  CSG. PERFS: OPEN HOLE: 3462 - 3580'</p>		<p><b>TUBING DETAIL</b></p> <p><b>ROD DETAIL</b></p>		<p><b>WELL HISTORY SUMMARY</b></p> <p>Sep-45 Initial completion interval: 3462 - 3558' (Queen OH). IP = 62 bopd, 0 bwpd, 0 Mcf (flowing)</p> <p>Jul-49 Deepened to 3580' and shot OH w/ 160 qts nitro.</p> <p>Oct-52 Frac w/ 3,000 gals oil &amp; 3,000#s sand. Pmax=6200 psi</p> <p>Jan-58 C/O fill from 3497 - 3577'. After WO: 18 bopd</p> <p>Sep-69 C/O fill from 3562 - 3580'.</p> <p>Sep-88 C/O w 4 3/4" bit - bridge f/3488 - 98', &amp; OH fill f/3524 - 80'. Before WO: 5.6 bopd /201 bwpd &amp; 12 Mcfgpd After WO: 35.7 bopd, 222.4 bwpd, &amp; 21.2 Mcfgpd: GOR=593, API gvt=36.7</p> <p>Feb-00 TOOH &amp; LD rods, pmp, &amp; 2 3/8" tbg. Set CIBP w/ WL @3400'. Spot 25 sxs cmt on CIBP. Spot 40 sxs cmt from 2970 - 2700'. Perf'd 6 shots @1450'. Set pkr @ 1000' &amp; cmt sqz 60 sxs into perfs. ISIP=200 psi. WOC. Tag TOC @ 1135'. Spot 15 sxs cmt from 300' - surf. Installed Dry hole marker &amp; cleaned location. NMOC notified - well P&amp;A'd 2-28-2000</p>	



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State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
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Form C-101  
Revised June 10, 2003

Submit to appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address SDG Resources L. P. P. O. Box 1390 Montrose, CO 81401		<sup>2</sup> OGRID Number
		<sup>3</sup> API Number 30 - 025-11134
<sup>3</sup> Property Code	<sup>5</sup> Property Name Cooper Jal Unit	<sup>6</sup> Well No. 102

<sup>7</sup> Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	18	24S	37E		660	North	1980	East	Lea

<sup>8</sup> Proposed 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

<sup>9</sup> Proposed Pool 1	<sup>10</sup> Proposed Pool 2
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<sup>11</sup> Work Type Code E	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code State	<sup>15</sup> Ground Level Elevation 3302' G. L.
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 3898'	<sup>18</sup> Formation Queen	<sup>19</sup> Contractor Eastern Oil Well Service	<sup>20</sup> Spud Date 11/18/02

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.

Describe the blowout prevention program, if any. Use additional sheets if necessary.

1. Re-enter P&A well. Use Sentinel Manual BOP rated at 5,000 psig.
2. Drill out cement plugs and CIBP @ 3400'.
3. Deepen from Queen from 3580' to 3898'. Acidize and fracture stimulate the open hole (3462'-3737').
4. Perforate LANGLIE MATTIX and JALMAT. Acidize and fracture stimulate 7 Rivers and Yates zones.
5. Down hole commingle Jalmat and Langlie Mattix zones.

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

*Domingo Carrizales*

Printed name: Domingo Carrizales

Title: Sr. Petroleum Engineer

E-mail Address: [domingo@sdgresources.com](mailto:domingo@sdgresources.com)

Date: 08/22/03

Phone: 432-550-7580

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

Lease Name: COOPER JAL UNIT  
County, State: LEA, NM  
Operator: CHEVRON U S A INCORPORATED  
Field: LANGLEIE-MATTIX  
Reservoir: SEVEN RVR QN GRBG  
Location: 18 24S 37E C NW NE

COOPER JAL UNIT - LANGLEIE-MATTIX

Cooper Jal Unit #102

