

DATE IN 12-6-04	SUSPENSE	ENGINEER Jones	LOGGED IN 12-1-04	TYPE DHC	APP NO. DSEM0434246993
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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

Form C-107A
Revised June 10, 2003

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 81401

Operator Cooper Jal Unit #408 Address P 13 24-S 36-E
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 22351 Property Code 10917 API No. 30-025-32856 Lease Type: ☐ Federal ☐ State ☒ Federal ☐ X

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	JALMAT		LANGLIE MATTIX
Pool Code	33 820		37240
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3046'-3116'		3478'-3726'
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		Shut-In and 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: 12/03/04 Rates: 10/18/260	Date: Rates:	Date: 7/22/96 Rates: 22/18/200
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 12/1/04
TYPE OR PRINT NAME Domingo Carrizales TELEPHONE NO. (432) 550-7580
E-MAIL ADDRESS domingo@sdgresources.com

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

DISTRICT II
P. O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P. O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994

Instructions on back

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Submit to Appropriate District Office

State Lease - 4 copies
Fee Lease - 3 copies

☐ AMENDED REPORT

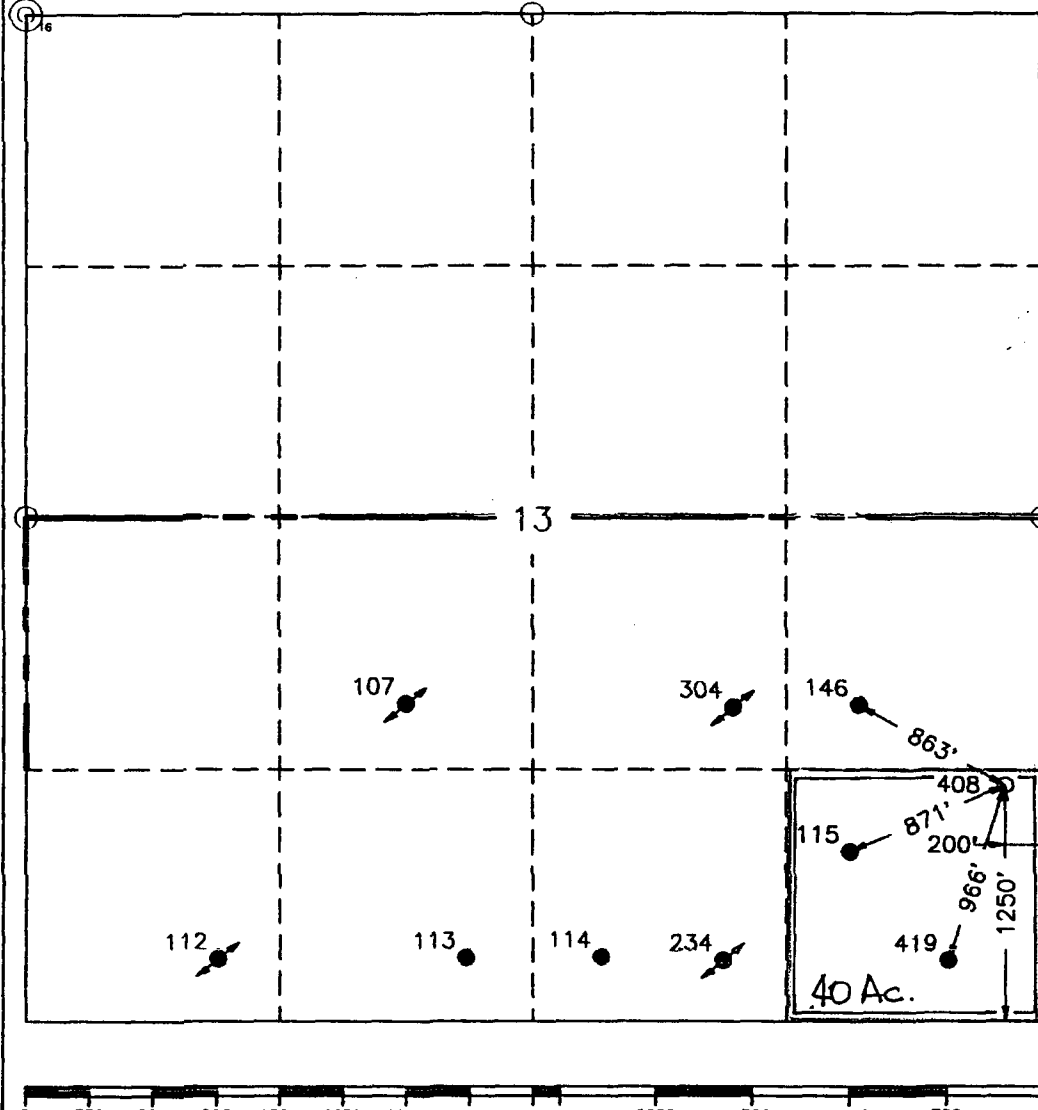
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-32856		² Pool Code 37240 33820		³ Pool Name Jalmat; Langlie Mattix			
⁴ Property Code 10917		⁵ Property Name COOPER JAL UNIT				⁶ Well Number 408	
⁷ UCRID No. 22351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION, INC.				⁹ Elevation 3316	

¹⁰ Surface Location									
¹¹ Ill or lot no.	Section	Township	Range	Int Idn	Feet from the	North/South line	Feet from the	East/West line	¹² County
P	13	24-S	36-E		1250'	South	200'	East	Lea

¹¹ Bottom Hole Location If Different From Surface									
¹¹ Ill or lot no.	Section	Township	Range	Int Idn	Feet from the	North/South line	Feet from the	East/West line	¹² County
¹³ Dedicated Acres 40		¹⁴ Joint or Infill		¹⁵ Consolidation Code		¹⁶ 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.

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
	Signature <i>C. Wade Howard</i>	
	Printed Name C. Wade Howard	
	Position Engineer Technician	
	Company Texaco Expl. & Prod. Inc.	
	Date January 30, 1995	
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 knowledge and belief.		
Date Surveyed January 19, 1995		
Signature & Seal of Professional Surveyor <i>John S. Piper</i>		
Certificate No. 7264 John S. Piper		
Sheet		

○ = Staked Location ● = Producing Well ↗ = Injection Well ↖ = Water Supply Well ✖ = Plugged & Abandon Well
⊙ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found 1/4 Section Corner, 1" Iron Pipe & GLO B.C.

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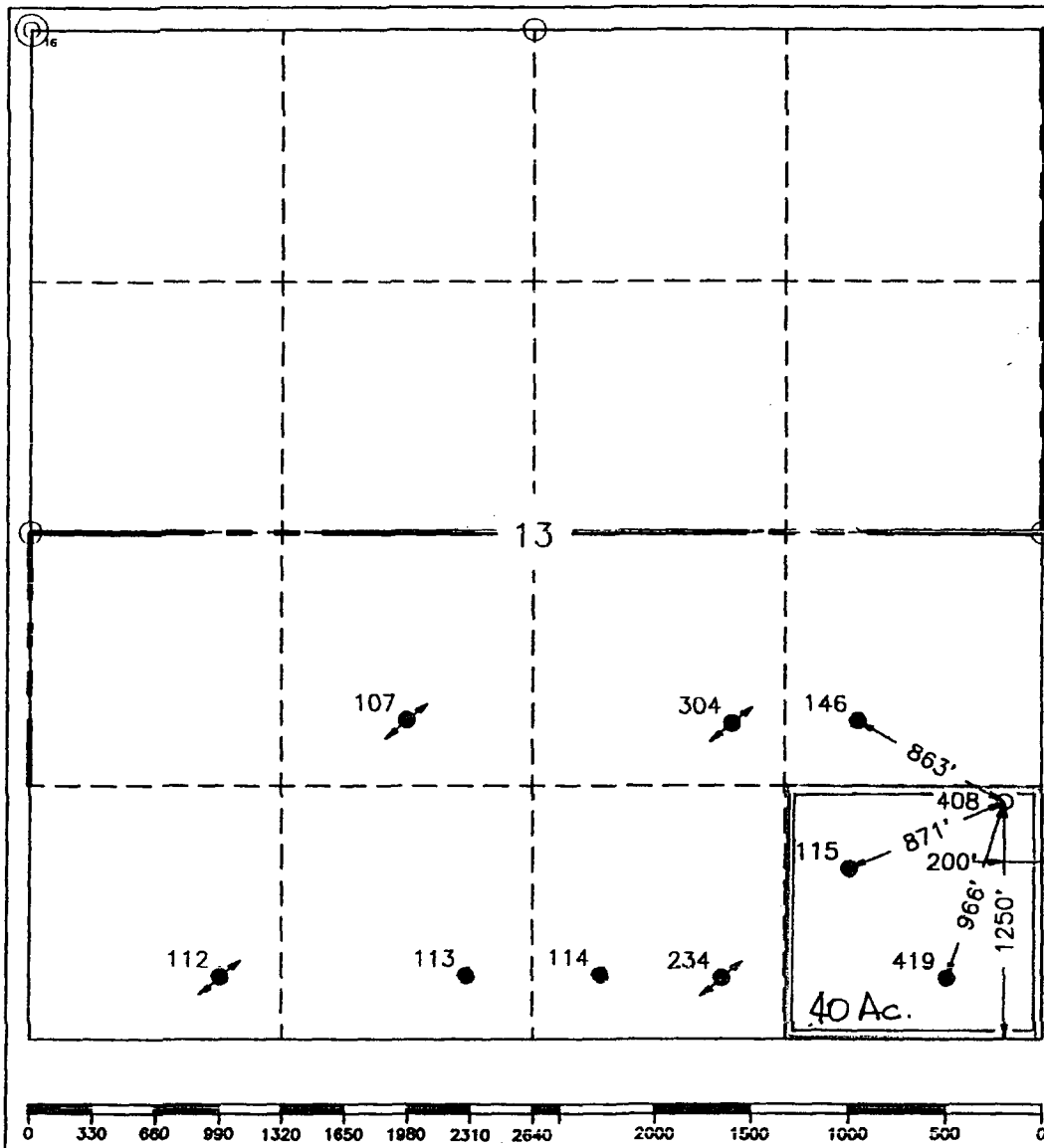
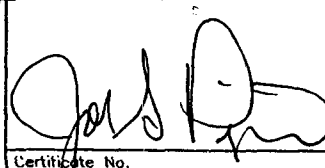
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1/1 or lot no.	Section	Township	Range	1st 1/4	Feet from the	North/South line	Feet from the	East/West line	County
P	13	24-S	36-E		1250'	South	200'	East	Lea

¹¹ Bottom Hole Location If Different From Surface									
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	Printed Name C. Wade Howard
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	Certificate No. 7264 John S. Piper

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☐ AMENDED REPORT

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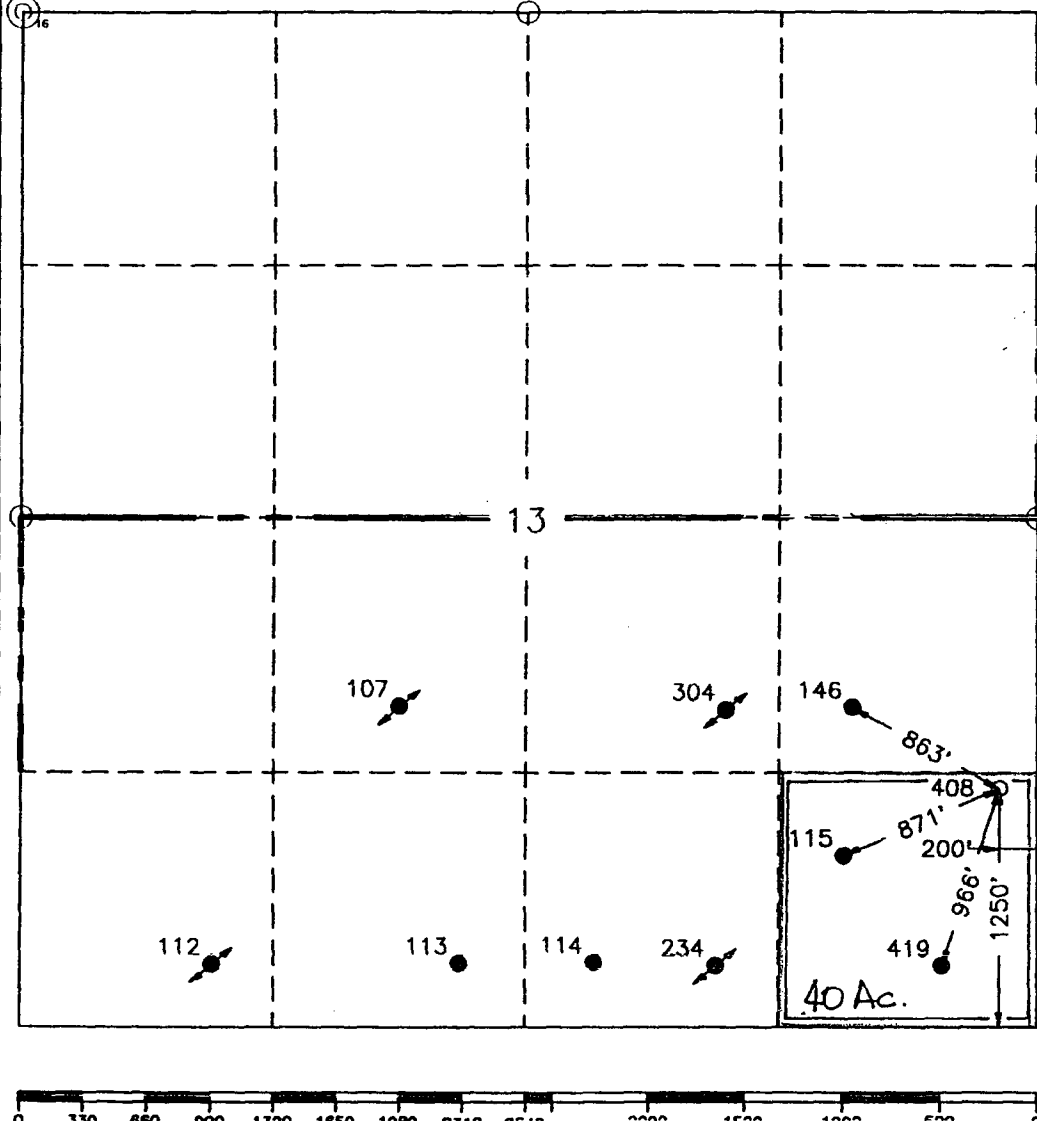
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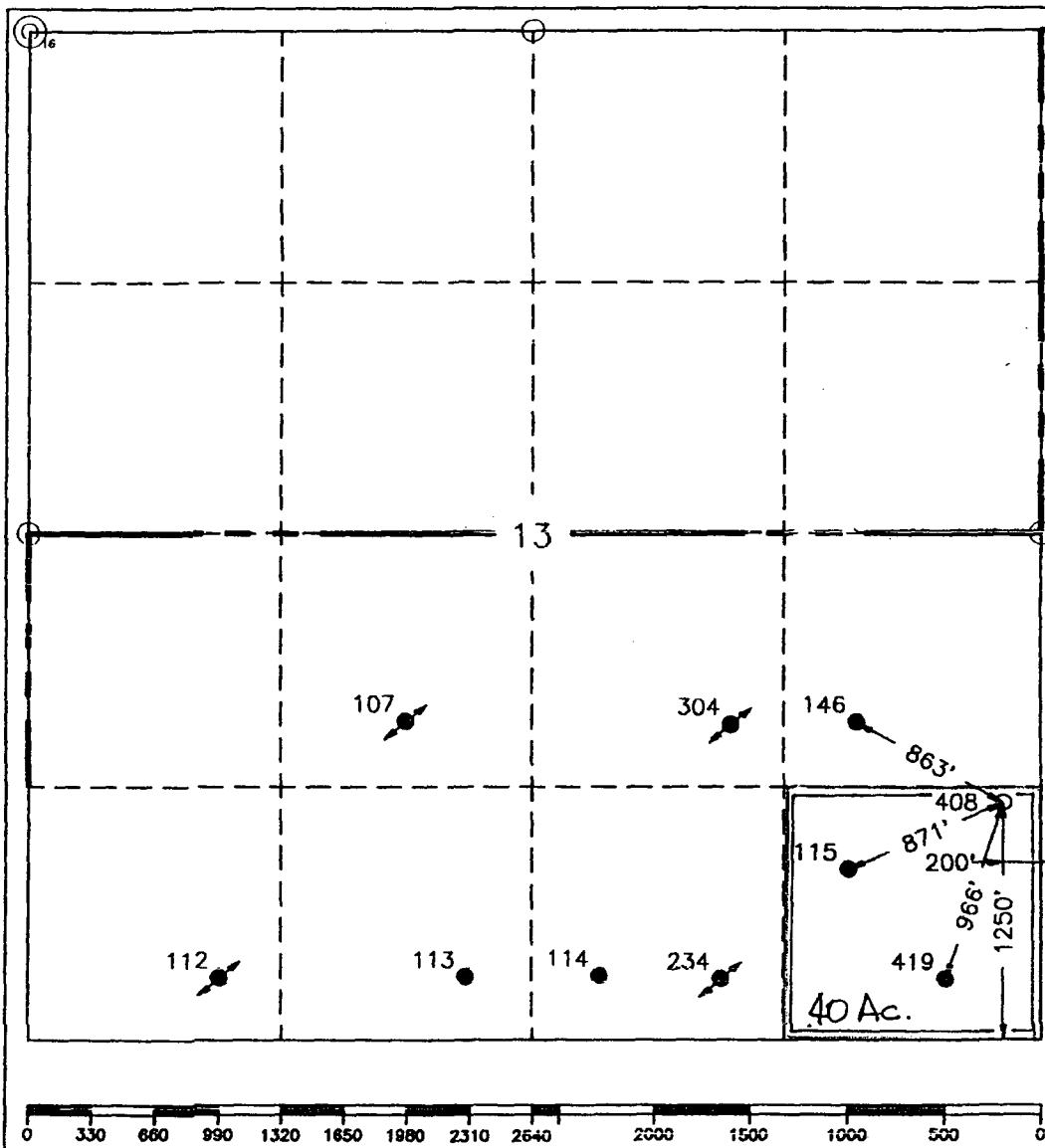
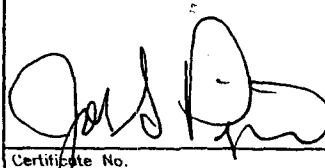
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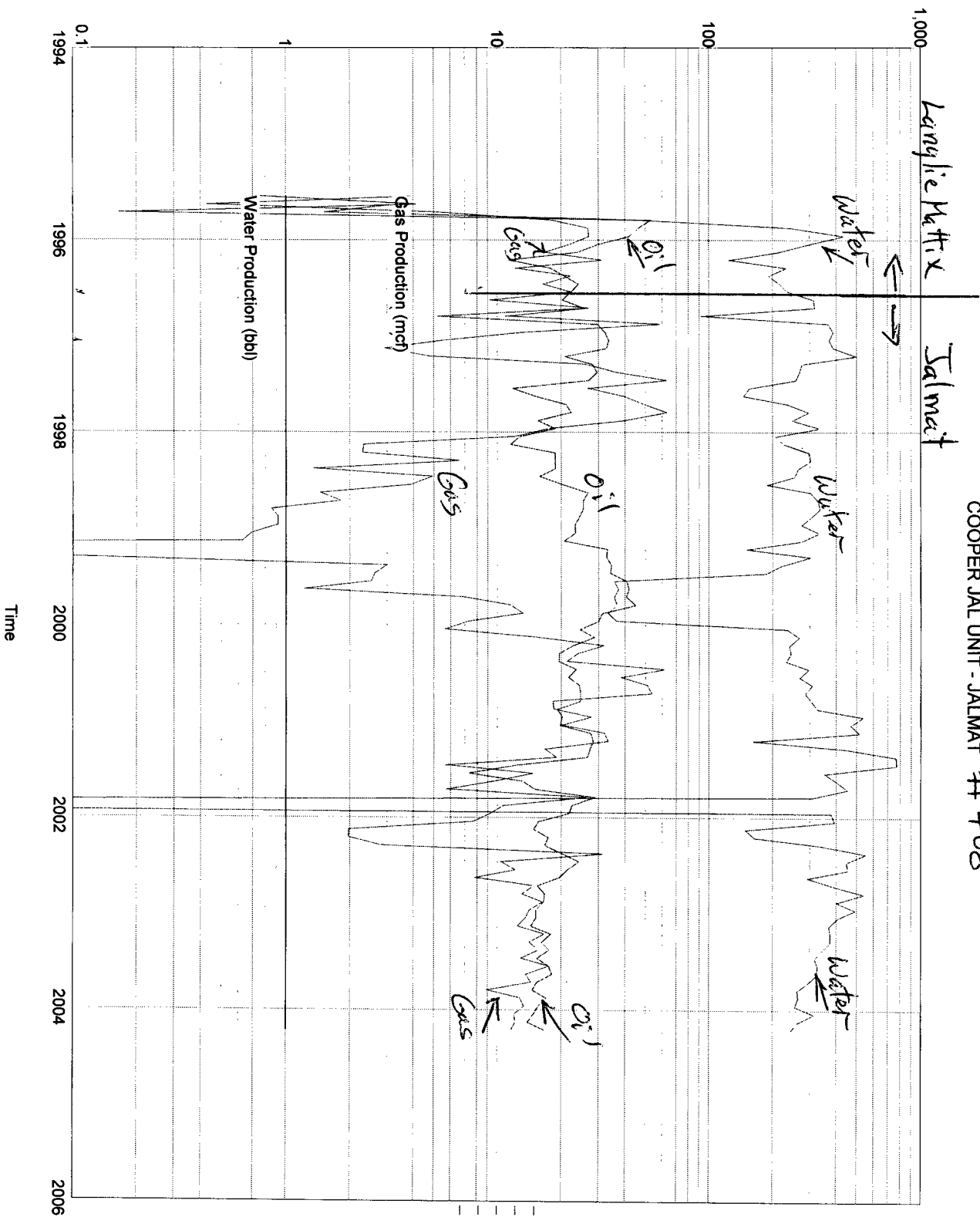
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WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		LEASE NAME		Cooper Jal Unit		WELL NO. 408																																											
<p>Surface Csg</p> <p>Hole Size: 12 1/4 in Csg. Size: 8 5/8 in Set @: 392 ft Sxs Cmt: 250 Circ: Yes TOC @: surf TOC by: circ</p>		STATUS: Active		Oil		API# 30-025-32856																																											
		LOCATION: 1250 FSL & 200 FEL, Sec 13, T - 24S, R - 36E, Lee County, New Mexico																																															
		SPUD DATE: 5/39/95 TD 3800		KB 3,330'		DF																																											
		INT. COMP. DATE: 5/29/1995 PBTD 3725		GL 3,316'																																													
		GEOLOGICAL DATA																																															
<p>TOC @ 465' by TS</p>		<p>ELECTRIC LOGS: DLT-MSFL-CSL (5-8-95 Halliburton) Temperature Survey (8-10-94 Halliburton)</p> <p>SDS-DSN-CSNG (8-9-94 Halliburton)</p> <p>HYDROCARBON BEARING ZONE DEPTH TOPS:</p> <p>Yates: 3,030' 7-Rivers: 3,239' Queen: 3,582'</p>																																															
		CASING PROFILE																																															
		<p>SURF. 8 5/8" - 24#, WC-50, ST&C set @ 392'. Cmt'd w/250 sxs - circ cmt to surface.</p> <p>PROD. 5 1/2" - 15.5#, WC-50, LT&C set @ 3786' Cmt'd w/1300 sxs - TOC @ 465' by Temperature Survey.</p> <p>LINER: None</p>																																															
<p>TOC @ 3725'</p>		CURRENT PERFORATION DATA																																															
		<p>CSG. PERFS:</p> <p>3046 - 54', 3074 - 85', 3146 - 50', 3154 - 56', 3164 - 68', 3284 - 96' w/ 4 spf (224 holes total)</p> <p>3228 - 3236', 3102 - 3116 w/ 4 spf (56 holes)</p>		<p>Isolated below CIBP @ 3400'</p> <p>3478 - 92' w/4 spf (56 holes total)</p>																																													
		OPEN HOLE :																																															
<p>3046'-54'</p> <p>3074'-85'</p> <p>3146'-50'</p> <p>3154'-56'</p> <p>3164'-68'</p> <p>3284'-96'</p> <p>3228'-36'</p> <p>3102'-16'</p> <p>Top of Fill at 3370'</p> <p>TOC @ 3390'</p> <p>CIBP @ 3400'</p> <p>3478 - 92'</p>		TUBING DETAIL 6/4/04		ROD DETAIL 6/4/04																																													
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Detail</th> <th>Length (ft)</th> <th>Detail</th> </tr> </thead> <tbody> <tr> <td>0.00 KB</td> <td></td> <td>22</td> <td>1 22' x 1 1/4" polish rod w/ 7/8" pin</td> </tr> <tr> <td>2927 93</td> <td>2 7/8" 6.5#, J-55, 8rd EUE tbg.</td> <td>0</td> <td>1 1 1/4" x 1 1/2" x 14' liner</td> </tr> <tr> <td>3 1</td> <td>5 1/2" x 2 7/8" TAC</td> <td>20</td> <td>4 2 - 4', 2 - 6' 1" D pony rods</td> </tr> <tr> <td>372 12</td> <td>2 7/8" 6.5#, J-55, 8rd EUE tbg.</td> <td>1000</td> <td>40 1" D steel rods</td> </tr> <tr> <td>1 1</td> <td>2 7/8" SN</td> <td>975</td> <td>39 7/8" D steel rods</td> </tr> <tr> <td>4 1</td> <td>2 7/8" Perf Sub</td> <td>1150</td> <td>46 3/4" D steel rods</td> </tr> <tr> <td>33 1</td> <td>3 1/2" Mud Anchor</td> <td>125</td> <td>5 1 1/2" sinker bars</td> </tr> <tr> <td>3340 btm</td> <td></td> <td>17</td> <td>1 2 1/2" x 1 3/4" x 17' RHBC rod pump w/o RH release</td> </tr> <tr> <td></td> <td></td> <td>0</td> <td>1 1 1/4" x 16" gas anchor</td> </tr> <tr> <td></td> <td></td> <td>3309</td> <td>btm</td> </tr> </tbody> </table>		Length (ft)	Detail	Length (ft)	Detail	0.00 KB		22	1 22' x 1 1/4" polish rod w/ 7/8" pin	2927 93	2 7/8" 6.5#, J-55, 8rd EUE tbg.	0	1 1 1/4" x 1 1/2" x 14' liner	3 1	5 1/2" x 2 7/8" TAC	20	4 2 - 4', 2 - 6' 1" D pony rods	372 12	2 7/8" 6.5#, J-55, 8rd EUE tbg.	1000	40 1" D steel rods	1 1	2 7/8" SN	975	39 7/8" D steel rods	4 1	2 7/8" Perf Sub	1150	46 3/4" D steel rods	33 1	3 1/2" Mud Anchor	125	5 1 1/2" sinker bars	3340 btm		17	1 2 1/2" x 1 3/4" x 17' RHBC rod pump w/o RH release			0	1 1 1/4" x 16" gas anchor			3309	btm	<p>SN@ 3302" TAC@ 2927"</p>	
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		3309	btm																																														
WELL HISTORY SUMMARY																																																	
<p>20-May-95 Initial completion: Perfd 3478 - 92'. Acdd'd perfs w/2,000 gals & Frac'd w/35,000 gals XLG 2% KCL carrying 115,536#s sand. Pump tst 24 hours - 1 bo, 19 blw, & 4 Mcfg. Perfd 3102 - 3116 w/ 4 spf (56 holes) Acdd'd perfs w/3,000 gals & Frac'd w/43,000 gals XLG 2% KCL carrying 200,000#s sand. Commingled all perfs - IP=68 bopd, 155 blw, & 17 Mcfgpd.</p> <p>18-Sep-95 Changed out pump & tst tbg to 500 psi. Good tst.</p> <p>15-Apr-96 Changed out pump, 14 - 1" rod boxes, 38 - 3/4" rod boxes, 27 - 7/8" rod boxes, 14 - 1" rod boxes, & 3 - 1" rods.</p> <p>22-Jul-96 Set CIBP @ 3400' & dump 10' cmt on top. PBTD=3390'. Perfd 3046 - 54', 3074 - 85', 3146 - 50', 3154 - 56', 3164 - 68', 3228 - 3236' & 3284 - 96' w/ 4 spf (224 holes total) Acdd'd perfs w/4,000 gals 15% NEFE HCL dropping 320 7/8" RCN ball sealers. AIR=10 bpm @ 1600 psi. ISIP=vacuum. After WO: 25 bopd, 201 bwpd, & 5 Mcfgpd</p> <p>06-Aug-97 C/O fill from 3335 - 3386' (51'). Changed out all rod boxes and rod pump.</p> <p>05-Jan-00 Changed out rod pump.</p> <p>16-Aug-01 Changed out MA, 15 - 3/4" rod boxes, 10 - 7/8" rod boxes, 10 - 1" rod boxes, and pump.</p> <p>24-May-02 Pull sticking pump. Changed out pump.</p> <p>05-Sep-02 Tally out of hole with tubing string. The bottom 5 jts pitted (bugs), hole on 5 fifth jt above SN. Hydrotest tubing in hole. Change pump & worm rod boxes.</p> <p>02-Jan-03 Pulled tubing string. Hydrotest tubing in hole below slips, busted 8 jts. Change out pump.</p> <p>04-Sep-03 POOH with rods, pump, and tubing. Hydrotest tubing in hole - top joint had rod wear. RIH with rods and pump. Replaced 13 - 3/4", 12 - 7/8", and 7 - 1". Placed well on production.</p> <p>26-Nov-03 POOH with rods, pump, and laid down tubing string. RIH with new 2 7/8" tubing, pump, and rods. Placed well on production. Changed out 26 - 1" boxes, 15 - 7/8" boxes, and 10 - 3/4" boxes due to wear.</p> <p>21-Apr-04 Parted 2nd 1 1/4" K-Bar (box break) above pump. POOH with rods and pump. RIH with pump and rods. PWOP.</p> <p>02-Jun-04 POOH with rods and pump. Scanalog tubing out of hole. Laid down 5 blue, 65 green, and 31 red band joints. RIH with new 2 7/8" tubing, tagged fill at 3370'. RIH with pump and rods. Upsized pump from 1 3/4" to 2". PWOP.</p>																																																	
<p>Production Csg.</p> <p>Hole Size: 7 7/8 in Csg. Size: 5 1/2 in Set @: 3786 ft Sxs Cmt: 1300 Circ: Yes TOC @: 465 ft f/surf. TOC by: TS</p>		<p>PBTD: 3725 ft TD: 3800 ft</p>																																															
PREPARED BY:		Larry S. Adams		D. Carrizales		UPDATED: 01-Dec-04																																											

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

COOPER JAL UNIT - JALMAT # 408



- Oil Production (bb) Daily
 - Gas Production (mcf) Daily
 - Water Production (bb) Daily
 - Injection Production Daily
 - Historical Well Counts