

DATE IN <u>10/30/09</u>	SUSPENSE	ENGINEER <u>[Signature]</u>	LOGGED IN <u>10/31/09</u>	TYPE <u>DHC</u> <u>4230</u>	APP NO <u>0930357016</u>
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NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -  
1220 South St. Francis Drive, Santa Fe, NM 87505



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2009 OCT 30 A 11:00

## ADMINISTRATIVE APPLICATION CHECKLIST STATEC Tract 12 #15

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.

Sophie Mackay  
Print or Type Name

[Signature]  
Signature

Engineering Technician  
Title

10/28/2009  
Date

sophie.mackay@apachecorp.com  
e-mail Address



October 28, 2009

Richard Ezeanyim  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Re: Application for Downhole Commingle  
State C Tract 12 #15  
Unit C, Sec 16, T-21S, R-37E  
Penrose Skelly; Grayburg and Hare; San Andres, East Pools  
Lea County, New Mexico

Dear Mr. Ezeanyim,

Enclosed please find an administrative application form (C-107A) and attachments for downhole commingling the Grayburg and San Andres in the State C Tract 12 #15. Apache intends to produce both zones together with an expected rate of 6 BOPD, 208 BWPD, and 103 MCFPD. The ownership (WI, NRI and ORRI) of these pools are identical in this wellbore. Downhole commingling in this manner will offer an economic method of production while protecting against reservoir damage, waste of reserves and violation of correlative rights. This is a State well. The State of New Mexico Commissioner of Public Lands has been sent a copy of this application.

This well was originally completed to the San Andres in 2/2004. It was plugged back to the Grayburg 6/2004. Apache intends to reopen the San Andres and commingle with the existing Grayburg production. Actual tests were used in determining the attached allocation. The attached production curve shows San Andres production from 2/2004 through 5/2004 and Grayburg production from 6/2004 through 8/2009.

If you need additional information or have any questions, please give me a call at (918) 491-4864.

Sincerely,

A handwritten signature in cursive script that reads "Sophie Mackay".

Sophie Mackay  
Engineering Technician

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  
☒ Single Well  
☐ Establish Pre-Approved Pools  
EXISTING WELLBORE  
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

Apache Corporation 6120 S Yale Ave, Suite 1500, Tulsa, OK 74136-4224  
Operator Address  
State C Tract 12 015 C 16 21S 37E Lea  
Lease Well No. Unit Letter-Section-Township-Range County  
OGRID No. 873 Property Code 23113 API No. 30-025-36478 Lease Type: ☐ Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Penrose Skelly; Grayburg		Hare; San Andres, East
Pool Code	50350		96601
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3790' - 3978' (Perf)		4092' - 4160' (Perf)
Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
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)	NA		NA
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1202 BTU		1147 BTU
Producing, Shut-In or New Zone	Producing		Shut In
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: Est Rates: 4 BOPD 108 BWPD 53 MCFPD	Date: Rates:	Date: Est Rates: 2 BOPD 100 BWPD 50 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 67 % 51 %	Oil Gas % %	Oil Gas 33 % 49 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ 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 ☒ No ☐  
Will commingling decrease the value of production? Yes ☐ No ☒  
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 ☐

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 Sophie Mackay TITLE Engineering Technician DATE 10/28/2009

TYPE OR PRINT NAME Sophie Mackay TELEPHONE NO. (918) 491-4864

E-MAIL ADDRESS sophie.mackay@apachecorp.com

District I  
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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 October 12, 2005  
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 30-025-36478		<sup>2</sup> Pool Code 50350		<sup>3</sup> Pool Name Penrose Skelly; Grayburg	
<sup>4</sup> Property Code 23113		<sup>5</sup> Property Name State C Tract 12			<sup>6</sup> Well Number 015
<sup>7</sup> OGRID No. 873		<sup>8</sup> Operator Name Apache Corporation			<sup>9</sup> Elevation 3480' GR

**<sup>10</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
C	16	21S	37E		1240	North	1400	West	Lea

**<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 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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.

<div style="position: relative; height: 100px;"> <span style="position: absolute; top: 0; left: 0;">16</span> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);"> 1240' </div> <div style="position: absolute; bottom: 0; left: 0;"> 1400' </div> </div>	<b><sup>17</sup> OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <div style="display: flex; justify-content: space-between;"> <div> <i>S. Mackay</i>  Signature </div> <div> 10/28/2009  Date </div> </div> <div> Sophie Mackay  Printed Name </div>		
	<b><sup>18</sup> SURVEYOR CERTIFICATION</b> <i>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.</i>		
	Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number		

District I  
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State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
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Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
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☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-36478		<sup>2</sup> Pool Code 96601		<sup>3</sup> Pool Name Hare; San Andres, East	
<sup>4</sup> Property Code 23113		<sup>5</sup> Property Name State C Tract 12			<sup>6</sup> Well Number 015
<sup>7</sup> OGRID No. 873		<sup>8</sup> Operator Name Apache Corporation			<sup>9</sup> Elevation 3480' GR

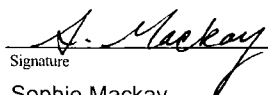
<sup>10</sup> Surface Location

UL or lot no. C	Section 16	Township 21S	Range 37E	Lot Idn	Feet from the 1240	North/South line North	Feet from the 1400	East/West line West	County Lea
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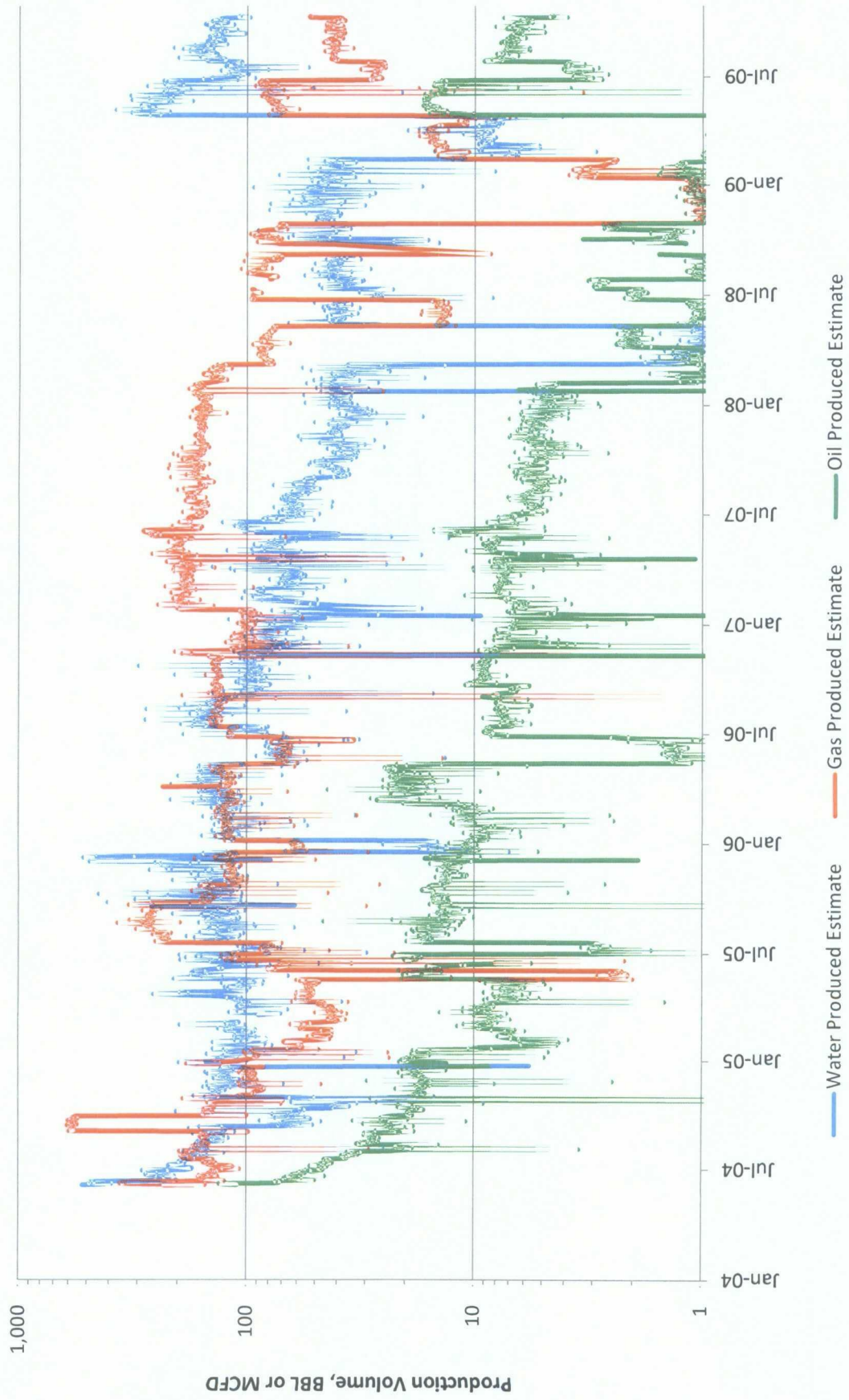
<sup>11</sup> Bottom Hole Location If Different From Surface

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 40		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

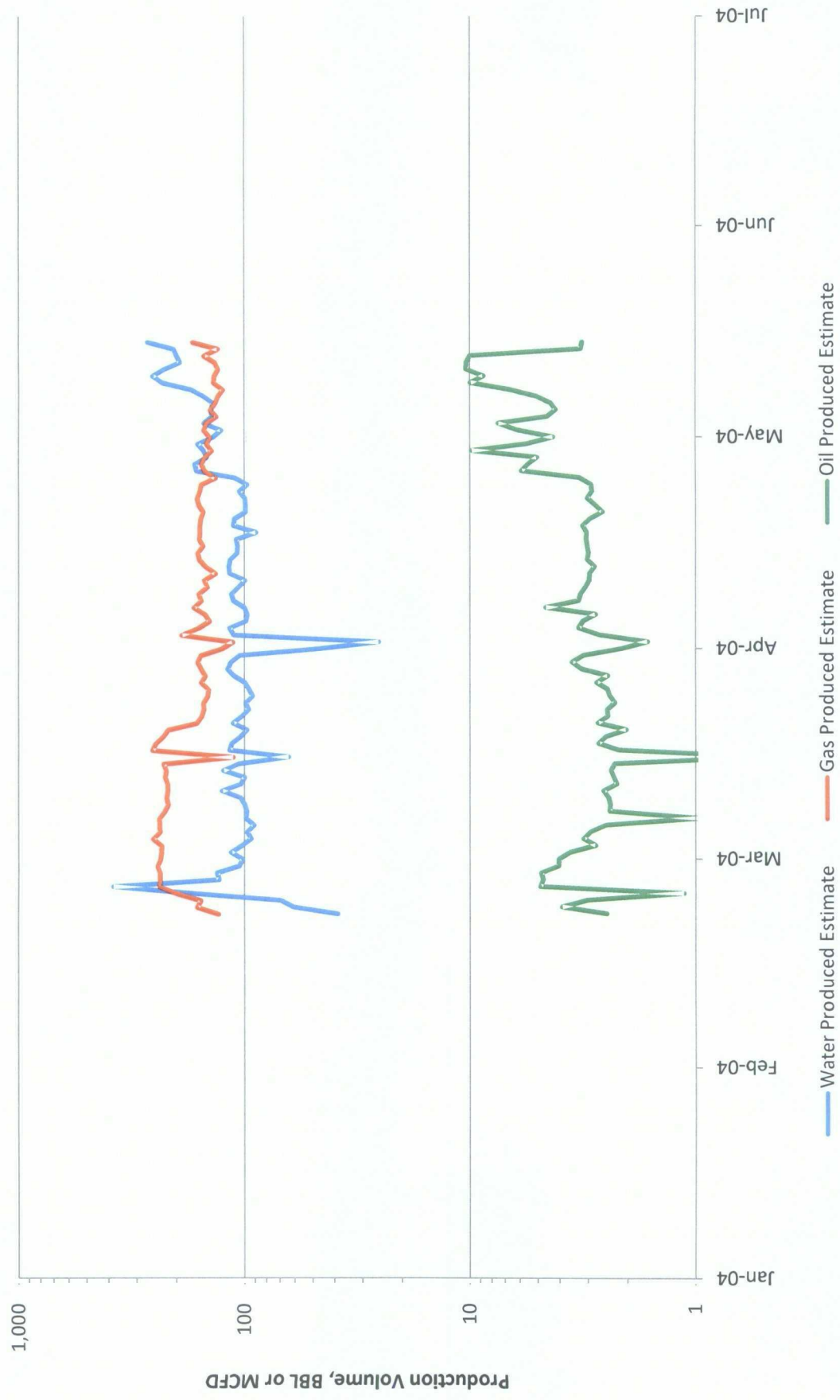
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<div style="position: relative; height: 400px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black;"></div> <div style="position: absolute; top: 10%; left: 10%; width: 10%; height: 10%; border: 1px solid black; text-align: center;">1240'</div> <div style="position: absolute; top: 50%; left: 10%; width: 10%; height: 10%; border: 1px solid black; text-align: center;">1400'</div> </div>	<p><sup>17</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p style="text-align: right;">  10/28/2009              Signature Date              Sophie Mackay              Printed Name           </p>		
	<p><sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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 Signature and Seal of Professional Surveyor:</p>		
	<p>Certificate Number</p>		

# State C Tract 12 #15 (Grayburg)



## State C Tract 12 #15 (San Andres)



State C Tract 12 #15				
Production		BOPD	BWPD	MCF/D
Initial Production	Grayburg (7-5-04)	52	196	122
	San Andres (3-7-04)	6	104	220
Current Production	Grayburg	4	108	53
	San Andres	0	0	0
Expected Production	Grayburg	4	108	53
	San Andres	2	100	50
	Total Well	6	208	103
Allocation		Oil	Water	Gas
Current Allocation	Grayburg	100%	100%	100%
	San Andres	0%	0%	0%
Expected Allocation	Grayburg	67%	52%	51%
	San Andres	33%	48%	49%



From: Origin ID: TULA (918) 491-4968  
Amber Cooke

6120 S. Yale Ave  
Suite 1500  
Tulsa, OK 74136



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**Pete Martinez**

**SLO: Commissioner of Public Lands**  
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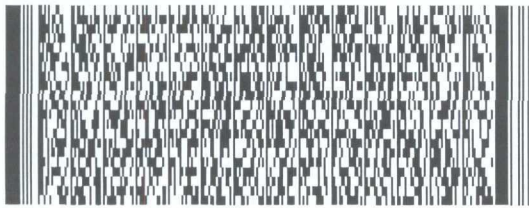
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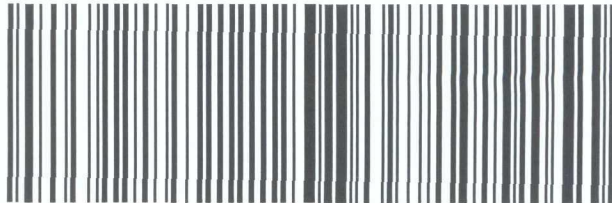
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