

DATE IN 10/14/08	SUSPENSE	ENGINEER WJS	LOGGED IN 10/31/08	TYPE PAC 412	APP NO. PWTJ 0831471577
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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.

Mike Pippin  
 Print or Type Name

*Mike Pippin*  
 Signature

Petroleum Engineer  
 Title

October 28, 2008  
 Date

mike@pippinllc.com  
 e-mail Address

RECEIVED  
 2008 OCT 31 PM 1 00

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**

**LIME ROCK RESOURCES A, L.P.** c/o Mike Pippin LLC (agent), 3104 N. Sullivan, Farmington, NM 87401  
Operator Address

**KERSEY STATE #3** **I SEC. 32 T17S R28E** **DHE-4112**  
Lease Well No. Unit Letter-Section-Township-Range Eddy County

OGRID No. 255333 Property Code 25197 API No. 30-015-35562 Lease Type: ☐ Federal ☒ State ☐ Fee

**THIS IS PART OF THE BLACK HILLS CLEAN-UP PROGRAM**

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	ARTESIA; Queen-Grayburg-San Andres		ARTESIA: Glorieta-Yeso
Pool Code	3230		86830
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2409'-2733'		3632'-3730'
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)	34.8		38.32
Producing, Shut-In or New Zone	Producing		Producing
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: 7/31/08 RATES: 34 BOPD 73 MCF/D	Date: Rates:	Date: 7/31/08 Rates: 12 BOPD 15 MCF/D
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 74% 83%	Oil Gas % %	Oil Gas 26% 17%

**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 Mike Pippin TITLE Petroleum Engineer - Agent DATE October 24, 2008

TYPE OR PRINT NAME Mike Pippin TELEPHONE NO. ( 505 ) 327-4573

E-MAIL ADDRESS rnike@pippinllc.com

LINE ROCK RESOURCES A, L.P.  
KERSEY STATE #3  
Artesia; Glorieta-Yeso & Artesia; Queen-Grayburg-San Andres  
I Section 32 T17S R28E  
10/25/2008  
API#: 30-015-35562

## Commingle Allocation Calculations

During workover operations, the new upper zone: Artesia; Queen-Grayburg-San Andres (3230) was tested separately. The new interval was then tested commingled with the existing lower Artesia; Glorieta-Yeso (96830).

	<u>New Upper Zone</u>	<u>Both Zones Together</u>
Oil (bbls/d)	34	46
Gas (mcf/d)	73	88
Water (bbls/d)	98	178

### OIL

Upper Zone = 34 bopd

Lower Zone =  $46 - 34 = 12$  bopd

$$\% \text{ Upper Zone} = \frac{34}{46} = 74\%$$

$$\% \text{ Lower Zone} = \frac{12}{46} = 26\%$$

### GAS

Upper Zone = 73 mcf/d

Lower Zone =  $88 - 73 = 15$  mcf/d

$$\% \text{ Upper Zone} = \frac{73}{88} = 83\%$$

$$\% \text{ Lower Zone} = \frac{15}{88} = 17\%$$

### WATER

Upper Zone = 98 bwpd

Lower Zone =  $178 - 98 = 80$  bwpd

$$\% \text{ Upper Zone} = \frac{98}{178} = 55\%$$

$$\% \text{ Lower Zone} = \frac{80}{178} = 34\%$$

# KERSEY STATE #3

Current

ARTESIA; Glorieta-Yeso & ARTESIA; Queen-Grayburg-San Andres

(I) Section 32, T-17-S, R-28-E, Eddy County, NM

Today's Date: 10/24/08

Spud: 7/2/07

Completed: 8/7/07

Elevation: 3673' GL

12-1/4" hole

8-5/8" 23# J-55 Csg @ 486'

Cmt w/375 sxs (Circulated cement)

2-7/8" tubing @ 3791'

Grayburg @ 1623'

San Andres @ 1984'

Glorieta @ 3495'

ARTESIA; Queen-Grayburg-San Andres  
Perfs: 2409'-2733'

ARTESIA; Glorieta-Yeso  
Perfs: 3632'-3730'

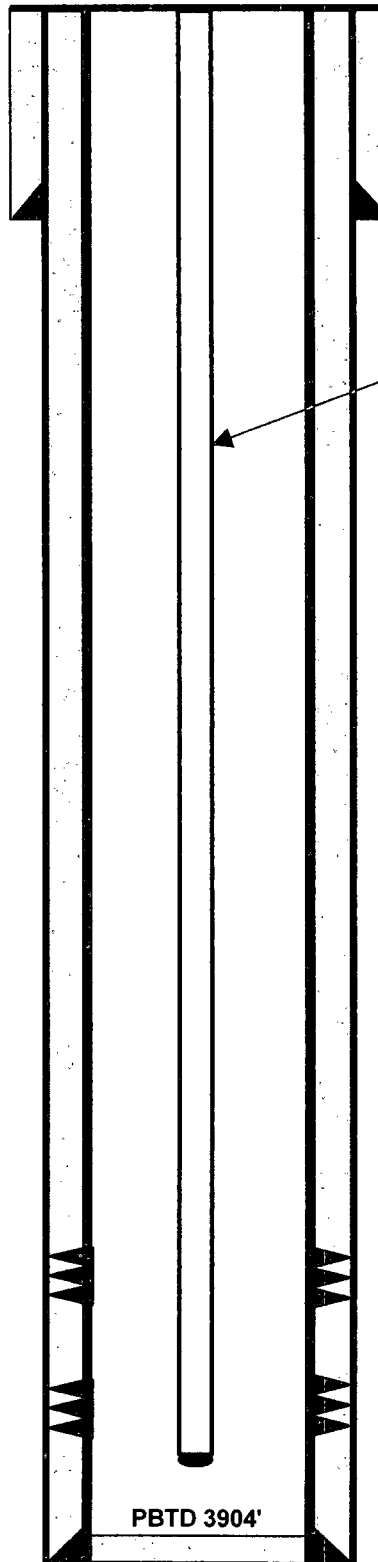
7-7/8" hole

PBTD 3904'

TD 3943'

5-1/2" 15.5# K-55 Csg @ 3943'

Cmt with 950 sx, Circ Cmt



# Rate/Time Graph

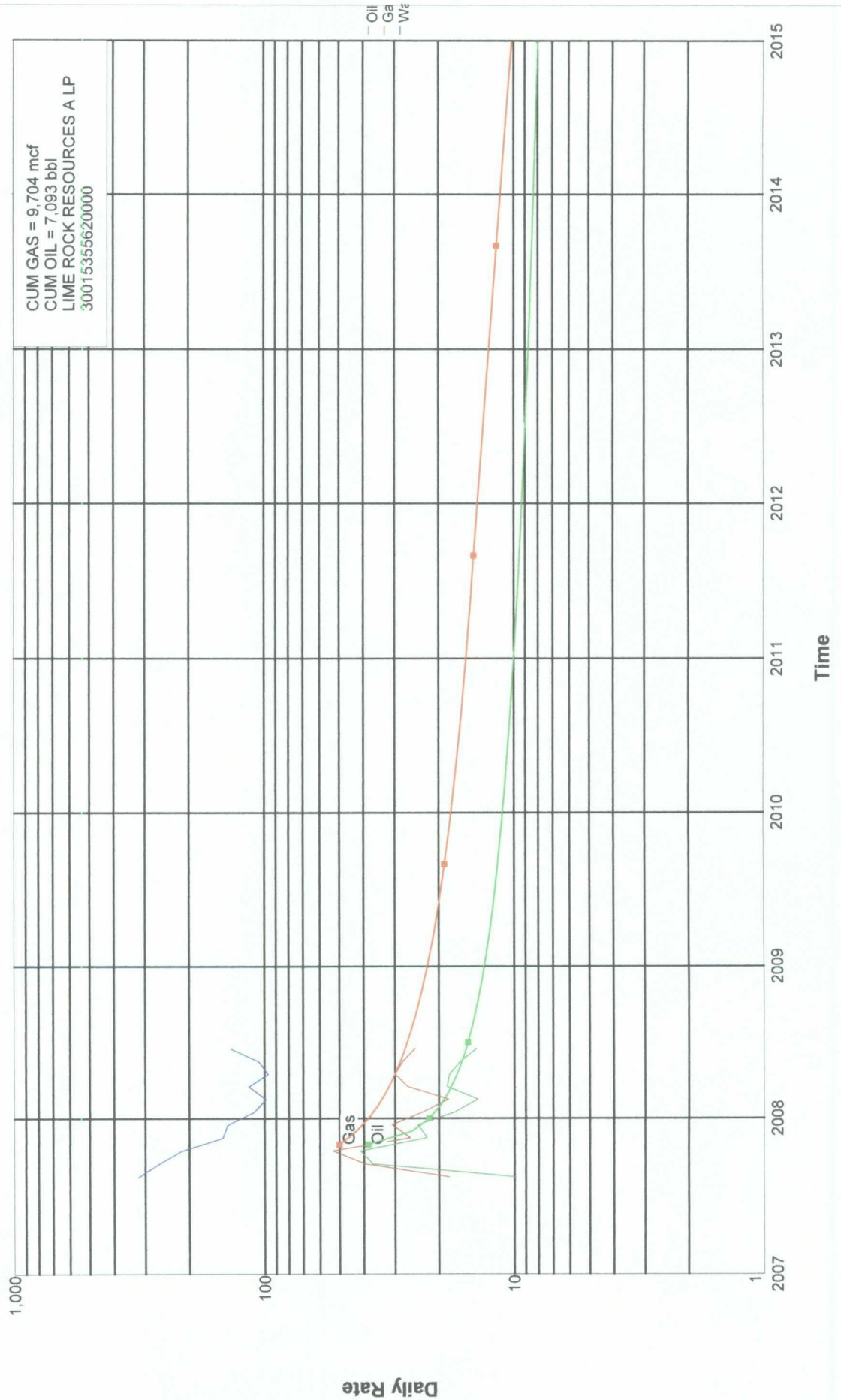
Lease Name: KERSEY STATE (3)  
County, ST: EDDY, NM  
Location: S17 E28 32 SW NE SE

Project: C:\Program Files\IHS Energy\PowerTools v8.0\Projects\LIMEROCK.mdb

Operator: LIME ROCK RESOURCES A LP  
Field Name: ARTESIA

Date: 10/27/2008  
Time: 10:23 AM

## KERSEY STATE - 3 GLORIETA YESO S17 E28 32 SW NE SE 08/2007



**District I**  
1625 N. French Dr., Hobbs, NM 88240

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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 30-015-35562	<sup>2</sup> Pool Code 3230	<sup>3</sup> Pool Name Artesia; Queen-Grayburg-San Andres
<sup>4</sup> Property Code 25197	<sup>5</sup> Property Name <b>KERSEY STATE</b>	<sup>6</sup> Well Number <b>3</b>
<sup>7</sup> OGRID No. 255333	<sup>8</sup> Operator Name <b>LIME ROCK RESOURCES A, L.P.</b>	<sup>9</sup> Elevation 3673' GL

<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
I	32	17-S	28-E		1650'	SOUTH	990'	EAST	EDDY

<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; width: 100%; height: 100%;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">32</div> <div style="position: absolute; top: 60%; left: 40%;">LAT:N32.78829</div> <div style="position: absolute; top: 62%; left: 40%;">LONG:W104.19255</div> <div style="position: absolute; top: 70%; left: 55%;">990'</div> <div style="position: absolute; top: 80%; left: 50%;">1650'</div> </div>	<p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p><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></p> <p style="text-align: right;">10/24/08</p> <p>Signature _____ Date _____</p> <p><u>Mike Pippin</u> Printed Name</p>
	<p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p><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></p> <p>7/10/06</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: Dan R. Reddy</p>
	<p>5412</p> <p>Certificate Number</p>

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## State of New Mexico

Energy, Minerals &amp; 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

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<div style="text-align: center; font-size: 2em;">32</div>	<div style="text-align: center;">LAT:N32.78829 LONG:W104.19255</div>	<div style="text-align: center;">990'</div>	<div style="text-align: center;">1650'</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="text-align: right;">10/24/08</div> <div style="display: flex; justify-content: space-between;"> <div>Signature</div> <div>Date</div> </div> <div>Mike Pippin</div> <div>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> <div style="text-align: right;">7/10/06</div> <div style="display: flex; justify-content: space-between;"> <div>Date of Survey</div> <div>Signature and Seal of Professional Surveyor:</div> </div> <div style="text-align: right;">Dan R. Reddy</div>
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