

District I  
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

Form C-101  
May 27, 2004

Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address <b>PETROHAWK OPERATING COMPANY</b> <b>1100 LOUISIANA, SUITE 4400, HOUSTON TEXAS 77002</b>		<sup>2</sup> OGRID Number <b>162791-194849</b>
<sup>4</sup> Property Code <b>24671 302433</b>	<sup>5</sup> Property Name <b>STATE A A/C 2</b>	<sup>3</sup> API Number <b>30- 025-08848</b>
<sup>9</sup> Proposed Pool 1 <b>JALMAT: YATES/SEVEN RIVERS/LANGLIE MATTIX</b>		<sup>6</sup> Well No. <b>40</b>
<sup>10</sup> Proposed Pool 2 <b>Langlie Mottix</b>		

<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>A</b>	<b>9</b>	<b>22S</b>	<b>36E</b>		<b>990</b>	<b>NORTH</b>	<b>990</b>	<b>EAST</b>	<b>LEA</b>

<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
<b>SAME</b>									

Additional Well Location

<sup>11</sup> Work Type Code <b>D &amp; A</b>	<sup>12</sup> Well Type Code <b>G</b>	<sup>13</sup> Cable/Rotary <b>R</b>	<sup>14</sup> Lease Type Code <b>S</b>	<sup>15</sup> Ground Level Elevation <b>+/-3570</b>
<sup>16</sup> Multiple <b>Y</b>	<sup>17</sup> Proposed Depth <b>3810</b>	<sup>18</sup> Formation <b>YATES/RVRS/LANGLIE</b>	<sup>19</sup> Contractor <b>TO BE DETERMINED</b>	<sup>20</sup> Spud Date <b>TO BE DETERMINED</b>
Depth to ground water <b>120 ft</b>		Distance from nearest fresh water well <b>1000 ft</b>		Distance from nearest surface water <b>NA</b>
Pit: Liner: Synthetic <input checked="" type="checkbox"/> <b>12</b> mils thick Clay <input type="checkbox"/> Pit Volume <b>100</b> bbls. Drilling Method: <b>W-O pit</b>				
Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

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

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
<b>12</b>	<b>9-5/8</b>	<b>32.3</b>	<b>345</b>	<b>300</b>	<b>SURFACE</b>
<b>8-3/4</b>	<b>7</b>	<b>20, 23</b>	<b>2982</b>	<b>782</b>	<b>SURFACE</b>

<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.

DEEPEN WELL THRU THE QUEEN; RUN 4-1/2" CSG & CMT. PERF/FRAC YATES/RIVERS/LANGLIE MATTIX AND COMMINGLE  
PLEASE SEE ATTACHED DATA FOR DEEPENING THE WELLBORE;

1. WELL LOCATION & ACREAGE DEDICATION PLAT, FORM C-102
2. PROPOSED WELL PLAN
3. CURRENT AND PROPOSED WELLBORE SCHEMATIC

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐, or an (attached) alternative OCD-approved plan ☐.  
Signature: **EDDY SEAY**

Printed name: **EDDY SEAY**

Title: **REGULATORY CONSULTANT**

E-mail Address: **seay04@leaco.net**

Date:

**January 23, 2008**

Phone:

**505-392-2236**

OIL CONSERVATION DIVISION

Approved by:

**Chris Williams**

Title: **OC DISTRICT SUPERVISOR/GENERAL MANAGER**

Approval Date:

**JAN 28 2008**

Expiration Date:


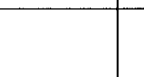

Oil Conservation Division

Conditions of approval: Approval for drilling/workover ONLY--- CANNOT produce Downhole Commingled until DHC is approved in Santa Fe.

Permit Expires 2 years From Approval  
Date Unless Drilling is Underway

**Deepen & Add**

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

16		<p style="text-align: center;"><b>17 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> <span style="float: left; margin-right: 20px;">   Signature </span> <span style="float: right;"> 11/24/2011  Date </span> </p> <p style="text-align: center;"><b>Eddie W Seay Agent</b></p> <p>Printed Name</p>
18		<p style="text-align: center;"><b>18 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>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>Certificate Number</p>

District I  
PO Box 1980, Hobbs, NM 88241-1980

**District II**  
PO Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd. Aztec, NM 87410

**District IV**  
PO Box 2088, Santa Fe, NM 87504-2088

**State of New Mexico**  
**Energy, Minerals & Natural Resources Department**

## OIL CONSERVATION DIVISION

**PO Box 2088  
Santa Fe, NM 87504-2088**

Revised February 21, 19

instructions on ba

**Submit to Appropriate District Office**

**State Lease - 4 Copies**

Fee Lease - 3 Copi

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 08848		2 Pool Code 79240		3 Pool Name Jalmat, TnsI, Yts, 7-Rivers (Pro Gas)	
4 Property Code 302433		5 Property Name State 'A' A/C 2			6 Well Number 40
7 OGRID No. 194849		8 Operator Name PETROHAWK OPERATING CO			9 Elevation

## 10 Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	22S	36E		990	North	990	East	Lea

## || 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
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12 Dedicated Acres 480	13 Joint or Infill	14 Consolidation Code	15 Order No. NSL-2872P(SD)
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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

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature Edwin W. Seay

Printed Name Edwin W. Seay

Title Agent

Date 11/24/2008

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 \_\_\_\_\_



**Lease and Well No:** State A A/C-2 #40  
**Field:** Jalmat Field  
**County:** Lea County, MN  
**API No:** 30-025-08848  
**Date:** 1/22/08

**Clean Out Well, Run Casing, Open Additional Pay and Stimulate the Yates / Seven Rivers and Langlie Mattix.**

**PROCEDURE**

- 1. Move in and rig up workover rig. Load well with clean field salt water. Insure well is dead. POOH with rods and pump.**
- 2. ND tree. NU BOP's. Test to 2000 psi.**
- 3. POOH laying down tubing.**
- 4. TIH with bit, DC's, Jars and workstring to TD at 3459'±. Circulate hole clean. Drill new hole through the Queen to 3910±. Circulate hole clean. POOH. RU casing crew.**
- 5. PU 4-1/2" guide shoe, 1 jt of 4-1/2" liner, float collar and remainder of 4-1/2" casing and RIH to new TD at 3910'±.**
- 6. RU cementing company and cement liner in place. WOC at least 12 hours.**
- 7. TIH with workstring to new TD. Circulate 2% KCL water. Spot 500 gal 15% HCL across perf interval. POOH**
- 8. RU EL. Run CBL. Perforate Yates / Seven Rivers and Langlie Mattix from 3156' to 3700'.**
- 9. RU Pump truck and frac equipment. Spearhead 4000 gal 15% HCL follow by frac job. Force close frac and begin flow back.**
- 10. Check for fill with sandline. Clean out well with notched collar and foam air unit if required.**
- 11. TIH with mud anchor, perf sub, SN and 2-3/8" tubing. Hang off tubing as low as possible.**
- 12. ND BOP's. NU tree. Run rods and pump.**
- 13. Return well to production.**

