

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

¹ Operator Name and Address PETROHAWK OPERATING COMPANY 1100 LOUISIANA, SUITE 4400, HOUSTON TEXAS 77002		² OGRID Number 194849
⁴ Property Code 24669 302431		³ API Number 30- 025-09341
⁵ Property Name STATE A A/C 1		⁶ Well No. 20
⁹ Proposed Pool 1 JALMAT: YATES/SEVEN RIVERS/LANGLIE MATTIX		¹⁰ Proposed Pool 2 Langlie Mattix

⁷ 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	13	23S	36E		660	NORTH	1980	WEST	LEA

⁸ 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
SAME									

Additional Well Location

¹¹ Work Type Code D 4 A	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation +/-3382
¹⁶ Multiple Y	¹⁷ Proposed Depth 3740	¹⁸ Formation YATES/RVRS/LANGLIE	¹⁹ Contractor TO BE DETERMINED	²⁰ Spud Date TO BE DETERMINED
Depth to ground water 120 ft		Distance from nearest fresh water well 1000 +		Distance from nearest surface water NA
Pit: Liner: Synthetic <input type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume 100 bbls Drilling Method: Work over pit				
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"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17	13-3/8	48	255	250	SURFACE
11	8-5/8	28	2852	250	1878

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and propose the 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; 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

RECEIVED

JAN 25 2008

HOBBS OCD

²³ 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 + Aaa

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 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

¹ API Number 30-025-09341	² Pool Code 37240	³ Pool Name LANGLIE MATTIX;7 RIVERS-QUEEN-GRAYGURG
⁴ Property Code 302432	⁵ Property Name STATE A A/C-1	
⁷ OGRID No. 194849	⁸ Operator Name PETROHAWK OPERATING COMPANY	
		⁶ Well Number 20
		⁹ Elevation

¹⁰ Surface Location

UL or lot no. C	Section 13	Township 23S	Range 36E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 1980	East/West line WEST	County LEA
---------------------------	----------------------	------------------------	---------------------	---------	-----------------------------	----------------------------------	------------------------------	-------------------------------	----------------------

¹¹ 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
¹² Dedicated Acres 40 ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ 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.

¹⁶	¹⁷ OPERATOR CERTIFICATION <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> Signature <u>Eddie W Seay</u> Date <u>1/24/2008</u> Eddie W Seay Agent Printed Name	
	¹⁸ SURVEYOR CERTIFICATION <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
1625 N. French Dr., Hobbs. NM 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Revised February 21, 1994

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

OIL CONSERVATION DIVISION

instructions on back

District III
1000 Rio Brazos Rd. Aztec, NM 87410

PO Box 2088
Santa Fe, NM 87504-2088

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 09341		2 Pool Code 79240		3 Pool Name Jalmat Tansill Yates 7 Rvrs (Pro Gas)	
4 Property Code 302432		5 Property Name State A A/C 1			6 Well Number 20
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
C	13	23S	36E		660	North	1980	West	Lea

11 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

12 Dedicated Acres 640	13 Joint or Infill	14 Consolidation Code	15 Order No. NSL-2730-D (SD)
---------------------------	--------------------	-----------------------	---------------------------------

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 data-bbox="178 972 1085 1858"> </div>	<div data-bbox="1085 972 1528 1858"> <p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p>Signature: <i>Eddie W. Seay</i></p> <p>Printed Name: <u>Eddie W Seay</u></p> <p>Title: <u>Agent</u></p> <p>Date: <u>1/24/2008</u></p> <p>18 SURVEYOR CERTIFICATION</p> <p>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</p> <p>Signature and Seal of Professional Surveyor</p> <p>Certificate Number</p> </div>



Lease and Well No: State A A/C-1 #20
Field: Jalmat Field
County: Lea County, MN
API No: 30-025-09341
Date: 1/21/08

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 3231'±. Circulate hole clean. Drill new hole through the Queen to 3740'±. 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 3740'±.
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 2950' to 3530'.
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 2-7/8" tubing. Hang off tubing as low as possible.
12. ND BOP's. NU tree. Run rods and pump.
13. Return well to production.

