

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 1948 49
³ API Number 30- 025-08789		
⁴ Property Code 302433	⁵ Property Name STATE A A/C 2	⁶ Well No. 27
⁹ Proposed Pool 1 JALMAT; TAN-YATES-7RVRS (GAS)		¹⁰ Proposed Pool 2 JALMAT; TAN-YATES-7RVRS AND LANGLEIE MATTIX

⁷ Surface Location

UL or lot no. P	Section 5	Township 22S	Range 36E	Lot. Idn	Feet from the 660	North/South Line SOUTH	Feet from the 660	East/West line EAST	County LEA
---------------------------	---------------------	------------------------	---------------------	----------	-----------------------------	----------------------------------	-----------------------------	-------------------------------	----------------------

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no. SAME	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
------------------------------	---------	----------	-------	----------	---------------	------------------	---------------	----------------	--------

Additional Well Location

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation +/-3578
¹⁶ Multiple Y	¹⁷ Proposed Depth 3872	¹⁸ Formation QUEEN	¹⁹ Contractor TO BE DETERMINED	²⁰ Spud Date TO BE DETERMINED
Depth to ground water +/-120		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner Synthetic <input type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume _____ bbls Drilling Method:				
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
13	8-3/4	40#	416	200	SURFACE
8-3/4	7	24#	3089	400	455

²² 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.

CLEAN OUT WELL; PLUGBACK OPEN ADD'L PAY/STIM TAN-YATES-7RVRS AND LANGLEIE MATTIX

PLEASE SEE ATTACHED DATA:

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

RECEIVED

JAN 30 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 27, 2008**

Phone: **505-392-2236**

OIL CONSERVATION DIVISION

Approved by:

Chris Williams

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

Approval Date: **JAN 21 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

Plugback

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

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, 1994

instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-08789		2 Pool Code 77240	3 Pool Name Jalmat Tansill Yates 7 Rvrs ()
4 Property Code 302433	5 Property Name State A A/C 2		6 Well Number 27
7 OGRID No. 194849	8 Operator Name PETROHAWK OPERATING COMPANY		9 Elevation

10 Surface Location

UL or lot no.	Section	Township	Range	Lot (dn)	Feet from the	North/South line	Feet from the	East/West line	County
P	5	22S	36E		660	South	660	East	Lea

[illegible]

1) 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 46.5	13 Joint or Infill	14 Consolidation Code	15 Order No. NSP-1636-B(L) (SD) Applied For
----------------------------	--------------------	-----------------------	--

440, 50 NSF-1636-B3E78D/Approved For

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

SURVEYOR CERTIFICATION

OR A NON-STANDARD UNIT OF MEASURE

17 OPERATOR CERTIFICATION

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

Signature: Eddie W Seay

Printed Name: EDDIE W SEAY AGENT

Title: 1/29/2008

Date: 1/29/2008

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plan 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: _____

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 30-025-08789		² Pool Code 37240		³ Pool Name LANGLIE MATTIX;7 RIVERS-QUEEN-GRAYBURG	
⁴ Property Code 302433		⁵ Property Name STATE A A/C 2			⁶ Well Number 27
⁷ OGRID No. 194849		⁸ Operator Name PETROHAWK OPERATING COMPANY			⁹ Elevation

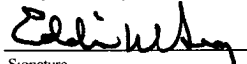
¹⁰ Surface Location

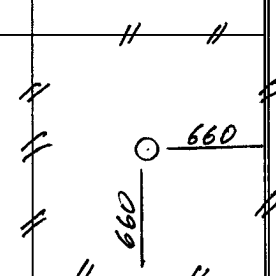
UL or lot no. P	Section 5	Township 22S	Range 36E	Lot Idn	Feet from the 660	North/South line SOUTH	Feet from the 660	East/West line EAST	County LEA
---------------------------	---------------------	------------------------	---------------------	---------	-----------------------------	----------------------------------	-----------------------------	-------------------------------	----------------------

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>  1/29/2008 Signature Date 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	





Lease and Well No: State A A/C-2 #27
Field: Jalmat Field
County: Lea County, MN
API No: 30-025-08789
Date: 1/23/08

Clean Out Well, Open Additional Pay and Stimulate the Tansill / 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 3000 psi.
3. POOH laying down tubing.
4. TIH with bit, DC's and workstring to PBTD at 3450'±. Drill up CIBP.
5. TIH w/ washpipe, Jars and workstring and wash to top of packer @ 3495'±. POOH. TIH w/ overshot and pull 2-3/8" tubing fish. POOH. TIH and burn over packer. Retrieve or push down hole to top of 4-1/2" liner @ 3675'. POOH.
6. RU EL & set CIBP @ 3670'±.
7. TIH with workstring to new PBTD @ 3670'±. Circulate 2% KCL water. Spot 500 gal 15% HCL across perf interval. POOH
8. RU EL. Perforate Yates / Seven Rivers / Langlie Mattix from 3100' to 3660'.
9. TIH w/ 4" tubing w/ 7" treating packer and set @ 3040'.
10. RU Pump truck and frac equipment. Spearhead 4000 gal 15% HCL follow by frac job. Force close frac and begin flow back. Pull 4-1/2" and packer out of hole and lay down.
11. Check for fill with sandline. Clean out well with notched collar and foam air unit if required.
12. TIH with mud anchor, perf sub, SN and 2-3/8" 4.7# J-55 8rd EUE tubing. Hang off tubing as low as possible.
13. ND BOP's. NU tree. Run rods and pump.
14. Return well to production.

FORM	TOP																																										
		ACC-2 #27 CURRENT WELLBORE DIAGRAM Mission Resources																																									
		SU-T-R 5P-22S-36E API #: 30-025-08789-0000 POOL: JALMAT; TAN-YATES-7 RVRS (OIL) CO, ST: LEA, NEW MEXICO LAND TYPE: STATE STATUS: ACTIVE ACREAGE 40.12 LATEST RIG WORKOVER: 5/21/1997 DIAGRAM REVISED: 1/11/2004 BY Robert Lee																																									
		LOG ELEVATION: 3,587' DF GROUND ELEVATION: 3,578'																																									
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">CASING</th> <th colspan="2">LINER</th> <th>TUBING</th> </tr> </thead> <tbody> <tr> <td>Hole</td> <td>13"</td> <td>8 3/4"</td> <td></td> <td></td> </tr> <tr> <td>Pipe</td> <td>10"</td> <td>7"</td> <td>4 1/2"</td> <td>5 1/2"</td> </tr> <tr> <td>Weight</td> <td>40#</td> <td>24#</td> <td>12.6#</td> <td>17#</td> </tr> <tr> <td>Grade</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Thread</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Depth</td> <td>418'</td> <td>3,089'</td> <td>3,675-3,865'</td> <td>3,063-3,725'</td> </tr> <tr> <td>Mud wt</td> <td></td> <td></td> <td></td> <td>3,428'</td> </tr> </tbody> </table>		CASING		LINER		TUBING	Hole	13"	8 3/4"			Pipe	10"	7"	4 1/2"	5 1/2"	Weight	40#	24#	12.6#	17#	Grade					Thread					Depth	418'	3,089'	3,675-3,865'	3,063-3,725'	Mud wt				3,428'
CASING		LINER		TUBING																																							
Hole	13"	8 3/4"																																									
Pipe	10"	7"	4 1/2"	5 1/2"																																							
Weight	40#	24#	12.6#	17#																																							
Grade																																											
Thread																																											
Depth	418'	3,089'	3,675-3,865'	3,063-3,725'																																							
Mud wt				3,428'																																							
		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>10" @ 418' w 200 sx Cmt</p> <p>LOGS GRN CNL</p> <p>TOC @ 455' w/75% SF</p> </div> <div style="width: 50%;"> <p>5 1/2" liner set @ 3,083-3,725</p> <p>7" @ 3,089' w/400 sx Cmt</p> </div> </div>																																									
		<p>TAN-YATES-7 RVRS ZONE HISTORY</p> <p>12/23/84 Dual completed w/Queen. Perforated select 14 holes 3055'-3355' Acidized 2000 gal acid Frac w/20,000 gal oil & 20,000# sand 29.7BPM Ran 2-3/8" prod tubing to 3,428' Ran 2" x 1-1/16" x 12' pump and rods. IP 0 BOPD 0 BWPD 1575 MCFD 12/89 Long string packer stuck - cut tbg @ 3,468' Set CIBP @ 3,450'. Tbg set @ 3,428'.</p> <p>OPPORTUNITY</p> <p>Relrac gas zone w/larger job. Comp in Tan-Yates & very little in 7 RVrs. RL 1/11/04</p>																																									
		<p>QUEEN ZONE HISTORY</p> <p>3/23/43 Spud. 4/24/43 Initial Completion Pool EUNICE; SEVEN RIVERS-QUEEN, SOUTH Perforated Open hole 3,089-3,872' Acidized 2000 gal acid IP 624 BOPD 1166 MCFD Flowing 11/50 Perfed tbg @ 3,814-18' - no increase 4/52 Cleaned out hole to 3,868'. Acidize w/5000 gal Before work - 20 BO, 1403 MCF After work - 38 BO 7/62 Clean to TD. Vibro-frac w/ 3 #3 shots @ 3,791-95'. Ran 190' 4-1/2" liner 3,675-3,865'. Slotted @ 3,772-3,803'. Frac w/20,000 gal & 40,000# sand + 500# Adomite. IP 103 BO, 179 MCFPD 12/64 Dual completion Yates & Queen. Long string set @ 3,520', short string @ 2,964'.</p>																																									
YATES	3,126'	<div style="display: flex; align-items: center;"> <div style="margin-left: 10px;"> <p>SELECT PERFS: 14 Holes 3055', 3076', 3110', 3152', 3168', 3178', 3209', 3230', 3243', 3250', 3290', 3296', 3309', 3356'</p> <p>CIBP @ 3,450' 12/89</p> <p>Pkr stuck @ 3,495' & tbg cut @ 3,468'</p> <p>4 1/2" slotted liner @ 3,875-3,865' w/ 60 sx Cmt</p> <p>PERFS 3772'-3802' } Queen Sand</p> </div> </div>																																									
7 RVRS	3,312'																																										
QUEEN	3,693'																																										
		TD 3,872'																																									

