

DATE IN 21 June 07	SUSPENSE	ENGINEER W. Jones	LOGGED IN 28 June 07	TYPE DHC	APP NO PLP0717305733 345733
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ABOVE THIS LINE FOR DIVISION USE ONLY

3913

**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]

RECEIVED

JUN 21 2007

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

- [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.

Eddy W Seay		Agent	6/19/2007
Print or Type Name	Signature	Title	Date
		seay04@leaco.net	
		e-mail Address	

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

PETROHAWK OPERATING COMPANY 1000 LOUISIAN, STE 5600, HOUSTON, TX 77002  
Operator Address  
STATE A A/C-1 29 C-11-23S-36E LEA **DAC-3913**  
Lease Well No Unit Letter-Section-Township-Range County  
OGRID No 194849 Property Code 302432 API No 30-025-09310 Lease Type  Federal  State  Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	JALMAT; TAN-Y-7R GAS		LANGLIE MATTIX; 7R-Q-GB
Pool Code	79240		37240
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2970-3434		3450-3624
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)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)			
Producing, Shut-In or New Zone	NEW ZONE		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.)	Dec 2006 Date 0.0 bopd 27.0mcf/gpd Rates	Date Rates	See attached supporting data Date Rates
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 0 % Gas 29.9 %	Oil % Gas %	Oil 100 % Gas 70.1 %

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 Eddy W Seay TITLE AGENT DATE 6/18/2007  
TYPE OR PRINT NAME Eddy W Seay TELEPHONE NO. (505) 392-2236  
E-MAIL ADDRESS seay04@leaco.net





**STATE A A/C-1 #29**  
**WELLBORE DIAGRAM**  
**PETROHAWK OPERATING CO.**

SU-T-R	11C-23S-36E	API #:	30-025-0931
POOL:	JALMAT; TAN-YATES-7 RVRS (PRO GAS)		
CO, ST:	LEA, NEW MEXICO	LAND TYPE:	STATE
STATUS:	ACTIVE	ACREAGE	40.12
LATEST RIG WORKOVER:			
DIAGRAM REVISED: 5/3/2004 BY ERG			

LOG ELEVATION:	3,448' KB
GROUND ELEVATION:	3,430'

	CASING	LINER	TUBING
Hole			
Pipe	9 5/8"	7"	2 3/8"
Weight	32.3#	20 & 23#	4.7#
Grade			
Thread			
Depth	328'	2,885'	2,980'
Mud wt			

LOGS			

**TAN-YATES-7 RVRS ZONE HISTORY**

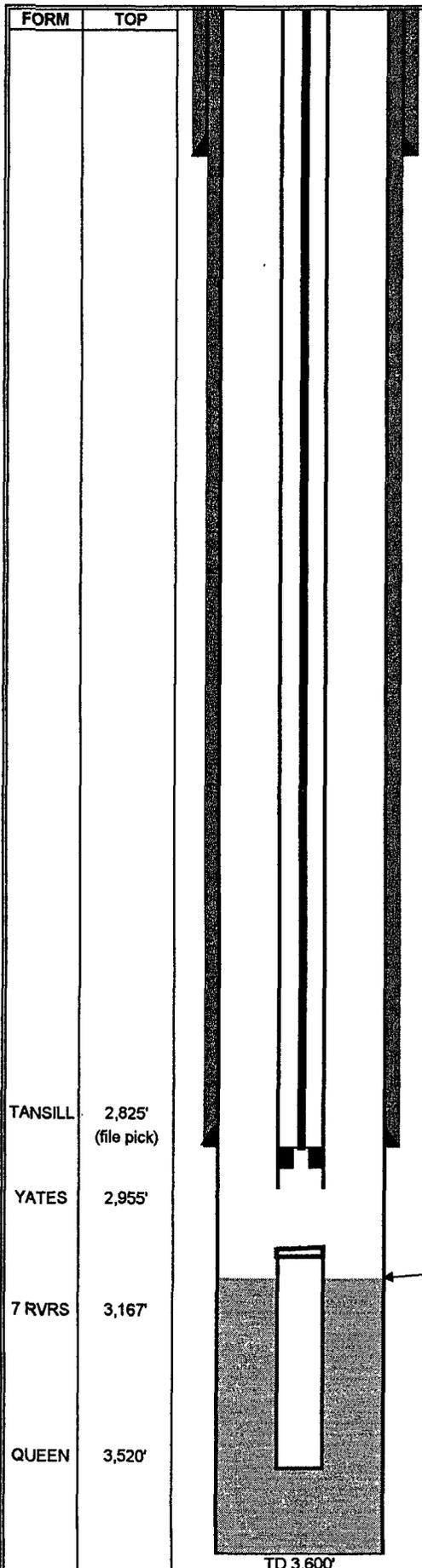
8/51 Spud. 9/51 OH Initial Completion  
 Open hole 2,885-3,600'  
 CAOF 9,500 MCFPD  
 6/77 MIRU. PU could not pull tbq & pkr. Cut tbq & pulled fish. CO to 3,600' & returned well to prod. Tstd 320 MCFPD, 0 BO & 0 BW  
 1/89 Pull tbq to CO OH. Left 522' 2 3/8" 4.7# tbq as Fish. Work fish downhole to 3,018'. CO beside fish to 3,071'.  
 POP

**OPPORTUNITY**

Well has produced 6.6 BCF.  
 Redrill well to frac Yates, etc or perf & frac Yates in offset well #83.

**LANGLIE MATTIX (LWR 7RVRS-QUEEN) HISTORY**

Note: Well originally produced from Yates-7Rvrs & Queen.



9 5/8" @ 328'  
w/342 sx Cmt

7" @ 2,885' w/800 sx Cmt, circ out 300 sx

Top of Fish approx. 3,018'  
Fill CO to 3,071 1/89

Btm of Fish approx. 3,540'

State A A/C-1 # 29  
Supporting Data for Commingling Permit

Petrohawk Operating Company is proposing to clean out well to PBTD at 3600' (fish in hole) and run 4-1/2" casing to allow selective perforating of the Jalmat; Tansill-Yates-Seven Rivers pool and the Seven Rivers and Queen formations of the Langlie Mattix pool.

Proposed Allocation

The proposed allocation is based on the performance of wells offsetting the # 29 well. The State A A/C-1 # 29 is producing only from the Jalmat pool and the State A A/C-1 # 92 produces only from the Langlie Mattix pool.

Date	State A A/C-1 # 29			State A A/C-1 # 92		
	Oil, bbls	Gas, mcf	Water, bbls	Oil, bbls	Gas, mcf	Water, bbls
Aug-06	0	926	0	3	2372	31
Sep-06	0	1031	0	0	2159	30
Oct-06	0	989	0	0	2358	42
Nov-06	0	924	0	20	2174	120
Dec-06	0	838	0	24	1970	31
<b>TOTALS</b>	<b>0</b>	<b>4708</b>	<b>283</b>	<b>47</b>	<b>11033</b>	<b>254</b>
Percent of Combined Total	<b>0.0%</b>	<b>29.9%</b>	<b>0.0%</b>	<b>100%</b>	<b>70.1%</b>	<b>100%</b>