

DATE IN 3,23,12	SUSPENSE	ENGINEER WVT	LOGGED IN 3,23,12	TYPE DHC 4541	APP NO. 120835 7500
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PTG-W

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -  
1220 South St. Francis Drive, Santa Fe, NM 87505



Merit 14591

State A Ale 1 # 107

**ADMINISTRATIVE APPLICATION CHECKLIST 30-025-20975**

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 \_\_\_\_\_

2-24-235-36E

2012 MAR 22 P 3:42  
RECEIVED OGD

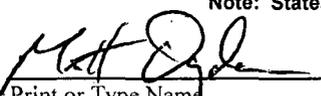
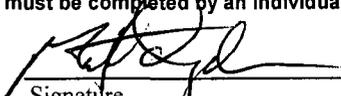
[2] **NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply**

- [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.



 Regulatory Analyst 3/21/12  
 Print or Type Name Signature Title Date  
 matt.ogden@meritenergy.com  
 e-mail Address

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised August 1, 2011

District II  
811 S. First St., Artesia, NM 88210

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

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

APPLICATION FOR DOWNHOLE COMMINGLING

DAE-1459

Merit Energy Company Operator 13727 Noel Rd Ste 500 Dallas, TX 75240 Address

State A A/C 1 Lease 107 Well No. L-24-23S-36E Unit Letter-Section-Township-Range Lea County

OGRID No. 14591 Property Code API No. 30-025-20975 Lease Type: Federal  State  Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Jalmat Tansil Yates 7-Rivers		Janice 7 Rivers Queen So
Pool Code	79240		24130
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2912'-3351'		3424'-3644'
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)	NA		NA
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1.3174		33.6 API/1.2088 BTU
Producing, Shut-In or New Zone	Producing		New Zone
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: 02/26/2012 Rates: 0 BO; 20 MCF	Date: Rates:	Date: Rates: 1 BO; 30MCF
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 40 %	Oil % Gas %	Oil 100 % Gas 60 %

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:

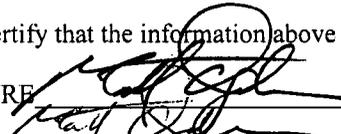
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation 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:

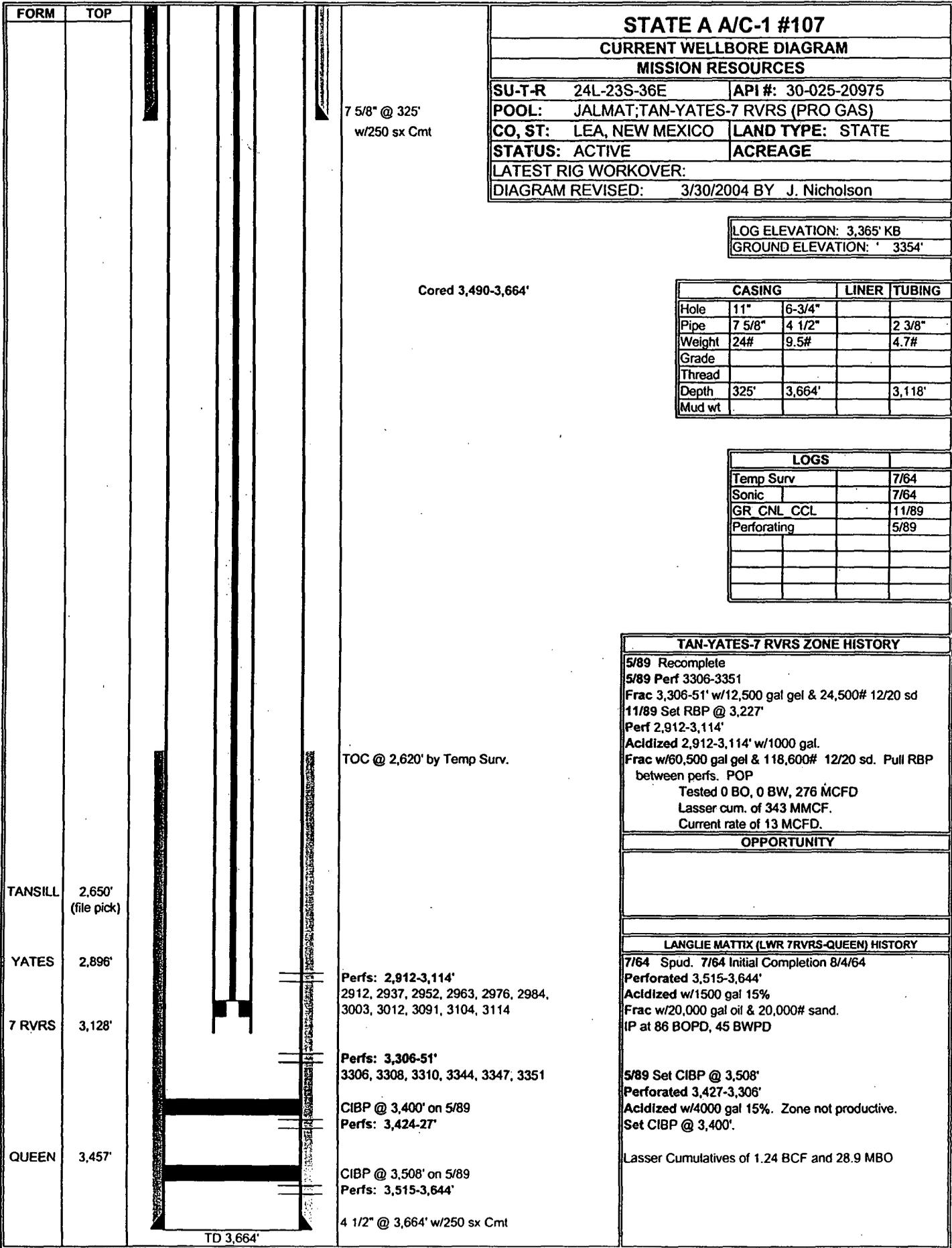
- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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

SIGNATURE  TITLE Regulatory Analyst DATE 02/28/2012

TYPE OR PRINT NAME Matt Ogden TELEPHONE NO. ( ) (972)628-1603

E-MAIL ADDRESS matt.ogden@meritenergy.com



**STATE A A/C-1 #107**  
**CURRENT WELLBORE DIAGRAM**  
**MISSION RESOURCES**

SU-T-R	24L-23S-36E	API #:	30-025-20975
POOL:	JALMAT; TAN-YATES-7 RVRS (PRO GAS)		
CO, ST:	LEA, NEW MEXICO	LAND TYPE:	STATE
STATUS:	ACTIVE	ACREAGE	
LATEST RIG WORKOVER:			
DIAGRAM REVISED: 3/30/2004 BY J. Nicholson			

7 5/8" @ 325'  
w/250 sx Cmt

Cored 3,490-3,664'

LOG ELEVATION: 3,365' KB  
GROUND ELEVATION: 3,354'

	CASING	LINER	TUBING
Hole	11"	6-3/4"	
Pipe	7 5/8"	4 1/2"	2 3/8"
Weight	24#	9.5#	4.7#
Grade			
Thread			
Depth	325'	3,664'	3,118'
Mud wt			

LOGS		
Temp Surv		7/64
Sonic		7/64
GR CNL CCL		11/89
Perforating		5/89

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

5/89 Recomplete  
5/89 Perf 3306-3351  
Frac 3,306-51' w/12,500 gal gel & 24,500# 12/20 sd  
11/89 Set RBP @ 3,227'  
Perf 2,912-3,114'  
Acidized 2,912-3,114' w/1000 gal.  
Frac w/60,500 gal gel & 118,600# 12/20 sd. Pull RBP between perfs. POP  
Tested 0 BO, 0 BW, 276 MCFD  
Lasser cum. of 343 MMCF.  
Current rate of 13 MCFD.

**OPPORTUNITY**

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

7/64 Spud. 7/64 Initial Completion 8/4/64  
Perforated 3,515-3,644'  
Acidized w/1500 gal 15%  
Frac w/20,000 gal oil & 20,000# sand.  
IP at 86 BOPD, 45 BWPD

5/89 Set CIBP @ 3,508'  
Perforated 3,427-3,306'  
Acidized w/4000 gal 15%. Zone not productive.  
Set CIBP @ 3,400'.

Lasser Cumulatives of 1.24 BCF and 28.9 MBO

TOC @ 2,620' by Temp Surv.

Perfs: 2,912-3,114'  
2912, 2937, 2952, 2963, 2976, 2984,  
3003, 3012, 3091, 3104, 3114

Perfs: 3,306-51'  
3306, 3308, 3310, 3344, 3347, 3351

CIBP @ 3,400' on 5/89  
Perfs: 3,424-27'

CIBP @ 3,508' on 5/89  
Perfs: 3,515-3,644'

4 1/2" @ 3,664' w/250 sx Cmt

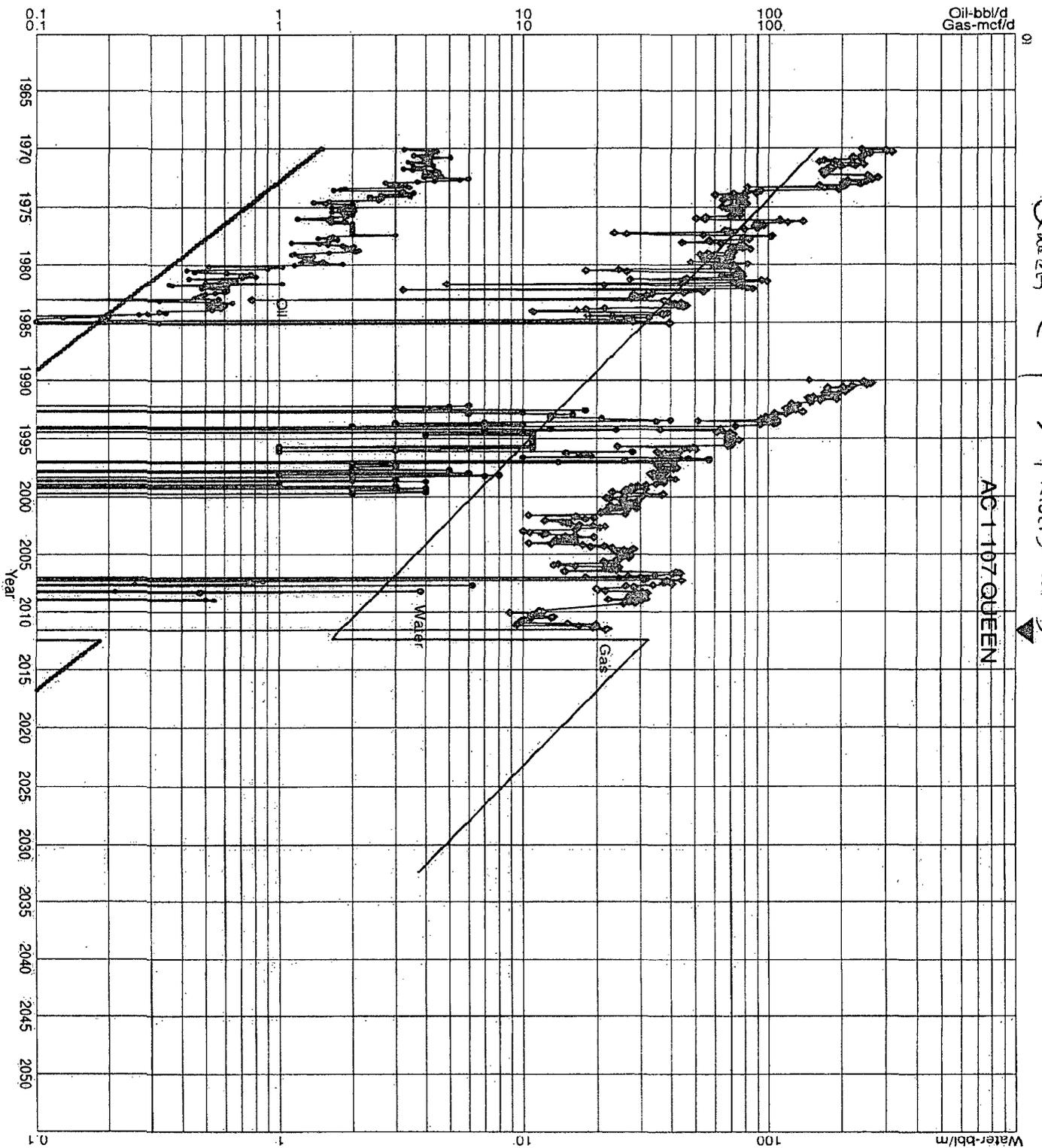
TANSILL 2,650'  
(file pick)

YATES 2,896'

7 RVRS 3,128'

QUEEN 3,457'

TD 3,664'



Queen ← → 7 Rivers Rates

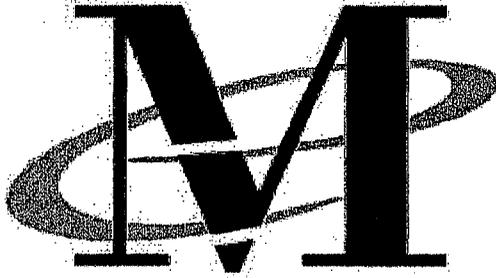
Current Prod. 20 MCFD

Est. Current Prod. 30 MCFD  
1/2 BOPD

Oil-bbl/d	OUTLOOK12
Qual=	6/2012
Ref=	10507
Cum=	452
Rem=	10959
EUR=	19.997
Yrs=	0:2
Qref=	13.167844
De=	0.000
Dmin=	0.000000
b=	0.000000
Qab=	0.0
Gas-mcf/d	OUTLOOK12
Qual=	6/2012
Ref=	939440
Cum=	96849
Rem=	1036289
EUR=	19.997
Yrs=	32.4
Qref=	10.254923
De=	0.000
Dmin=	0.000000
b=	0.000000
Qab=	3.7
Water-bbl/m	6/2012
Ref=	980
Cum=	

Allocation

60% Queen  
Gas: 40% 7 Rivers Rates  
Oil: 100% Queen



*Merit Energy Company  
13727 Noel Road, Suite 500  
Dallas, TX 75240*

Date: February 23, 2012  
To: New Mexico Oil Conservation Division  
Attention: William V Jones P.E.  
RE. **Jalmat Field: AC-1 #50,52,54,57,60,66,71,72,74,80,81, 107 & AC-2 #29-Queen  
Commingling  
Lea County, New Mexico**

Merit Energy Company has requested approval to commingle the Yates formation ( Jalmat Pool) with the Queen formation (Langlie-Mattix) .

This well that we are asking to commingle does have "identically owned" (working/royalty/orri) interest from the surface to the base of the queen formation.

Please let me know if you have any questions

Sincerely,

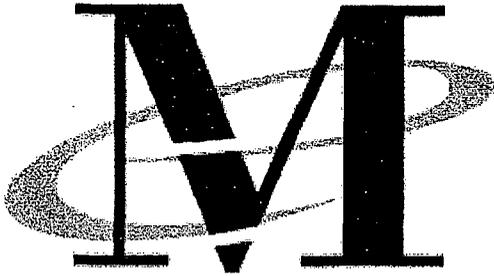
Matt Van Eaton

Associate Landman

[matt.vaneaton@meritenergy.com](mailto:matt.vaneaton@meritenergy.com)

Phone: 972-628-1557

Fax: 972-682-1857



*Merit Energy Company  
13727 Noel Road, Suite 500  
Dallas, TX 75240*

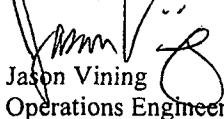
Date: February 23, 2012  
To: New Mexico Oil Conservation Division  
Attention: William V Jones P.E.  
**RE: Jalmat Field: 13 Commingling Applications  
Lea County, New Mexico**

Merit Energy Company has requested approval to commingle the Queen formation (Langlie Mattix Pool) with the Tansill-Yates-Seven Rivers formation (Jalmat Pool).

All of these wells are located in Lea County, C Sec 10, B-D-E-G-M Sec 13, G Sec 15, E- Sec 23, I-K-L-O- Sec 24 T23S R36E and D Sec 9 T22S R36E. Commingling the Jalmat Pool with the Langlie Mattix Pool is in the interest of both royalty owners and the conservation, and it will extend the life of each well and optimize recovery from both Pools. The 13 well's commercial value will be extended 20 years based on estimated reserves from the Queen formation, and will ultimately allow uncommercial Jalmat Pool reserves to be recovered via production from the Queen. The Queen Completions are uneconomic if it is required by the NMOCD to seal off the Jalmat Pool from the Langlie Mattix Pool. Operationally, fluid samples will be collected before and after commingling. Scale inhibitors will be continuously pumped during operations. The fluid level will be maintained below the Jalmat pool both to optimize production and reduce any scaling tendencies.

Please let me know if you have any questions.

Sincerely,



Jason Vining  
Operations Engineer  
jason.vining@meritenergy.com  
Phone: 972-628-1606  
Fax: 972-682-1906



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

1 API Number 30-025-20975		2 Pool Code 79240		3 Pool Name Jalmat Tansill Yates 7 Rvrs (Pro Gas)	
4 Property Code 24669		5 Property Name State A A/C I			6 Well Number 107
7 OGRID No. 162791		8 Operator Name Raptor Resources			9 Elevation.

10 Surface Location

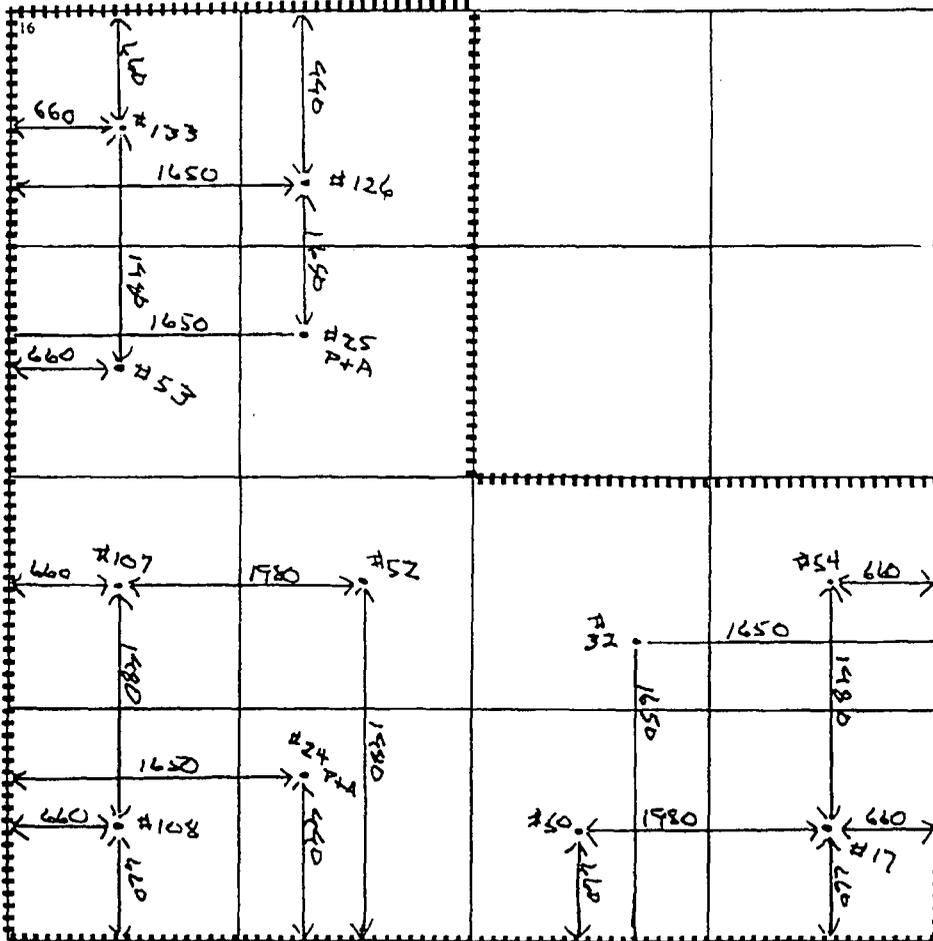
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	24	23S	36E		1980	South	660	West	Lea

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 480	13 Joint or Infill	14 Consolidation Code	15 Order No. R-11590	Applied For
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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

*Bill R. Keathly*  
Signature

Bill R. Keathly  
Printed Name

Regulatory Agent  
Title

8-2-01  
Date

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