

ABOVE THIS LINE FOR DIVISION USE ONLY

**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]

[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 \_\_\_\_\_

*Stakeholder #43  
30-025-09236*

- [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.**

Matt Ogden                      Matt Ogden                      Regulatory Analyst                      6/30/11  
 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 June 10, 2003

District II  
1301 W Grand Avenue, 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

Merit Energy Company 13727 Noel Rd Ste 500 Dallas, TX 75240  
Operator Address  
State A A/C 1 43 A-15-22S-36E Lea  
Lease Well No. Unit Letter-Section-Township-Range County  
OGRID No. 14591 Property Code API No. 30-025-09236 Lease Type:  Federal  State  Fee

DHC-4119

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Jalmat Tansil Yates 7-Rivers		Eunice 7 Rivers Queen So
Pool Code	79240		24130
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3153'-3595'		3698'-3778'
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: 06/25/2011 Rates: 0 BO; 40 MCF	Date: Rates:	Date: Rates: 3 BO; 5 MCF
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 90 %	Oil % Gas %	Oil 100 % Gas 10 %

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:

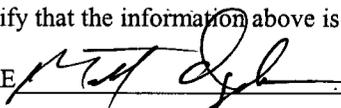
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation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

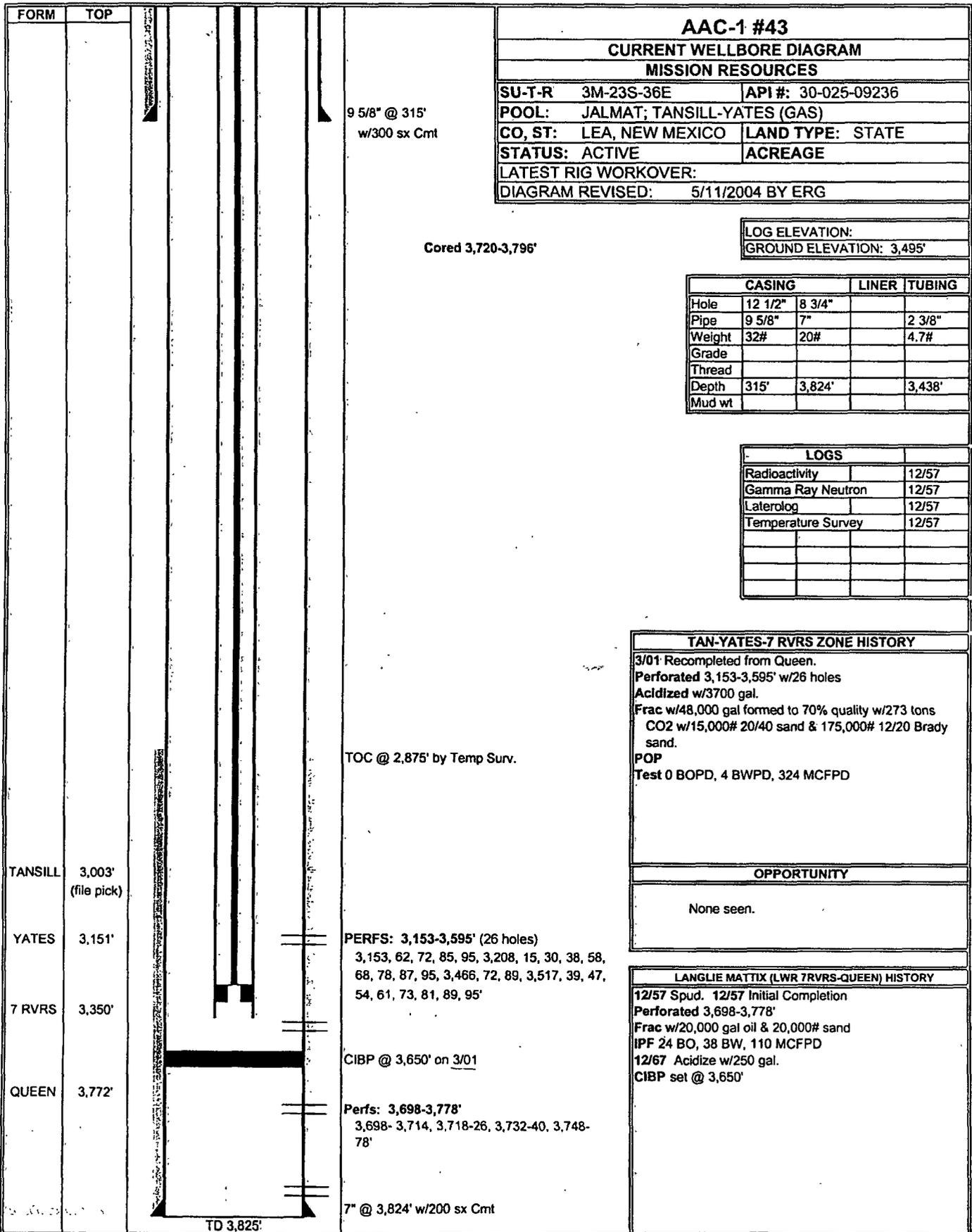
- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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

SIGNATURE  TITLE Regulatory Analyst DATE 06/28/2011

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

E-MAIL ADDRESS matt.ogden@meritenergy.com



**AAC-1 #43**

**CURRENT WELLBORE DIAGRAM**

**MISSION RESOURCES**

<b>SU-T-R</b>	3M-23S-36E	<b>API #:</b> 30-025-09236
<b>POOL:</b>	JALMAT; TANSILL-YATES (GAS)	
<b>CO, ST:</b>	LEA, NEW MEXICO	<b>LAND TYPE:</b> STATE
<b>STATUS:</b>	ACTIVE	<b>ACREAGE</b>
<b>LATEST RIG WORKOVER:</b>		
<b>DIAGRAM REVISED:</b> 5/11/2004 BY ERG		

Cored 3,720-3,796'

**LOG ELEVATION:**  
**GROUND ELEVATION:** 3,495'

	CASING	LINER	TUBING
Hole	12 1/2"	8 3/4"	
Pipe	9 5/8"	7"	2 3/8"
Weight	32#	20#	4.7#
Grade			
Thread			
Depth	315'	3,824'	3,438'
Mud wt			

LOGS	
Radioactivity	12/57
Gamma Ray Neutron	12/57
Laterolog	12/57
Temperature Survey	12/57

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

3/01 Recompleted from Queen.  
 Perforated 3,153-3,595' w/26 holes  
 Acidized w/3700 gal.  
 Frac w/48,000 gal formed to 70% quality w/273 tons  
 CO2 w/15,000# 20/40 sand & 175,000# 12/20 Brady sand.  
**POP**  
 Test 0 BOPD, 4 BWPD, 324 MCFPD

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**OPPORTUNITY**

None seen.

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

12/57 Spud. 12/57 Initial Completion  
 Perforated 3,698-3,778'  
 Frac w/20,000 gal oil & 20,000# sand  
 IPF 24 BO, 38 BW, 110 MCFPD  
 12/67 Acidize w/250 gal.  
 CIBP set @ 3,650'

9 5/8" @ 315'  
 w/300 sx Cmt

TOC @ 2,875' by Temp Surv.

**PERFS: 3,153-3,595' (26 holes)**  
 3,153, 62, 72, 85, 95, 3,208, 15, 30, 38, 58,  
 68, 78, 87, 95, 3,466, 72, 89, 3,517, 39, 47,  
 54, 61, 73, 81, 89, 95'

CIBP @ 3,650' on 3/01

**Perfs: 3,698-3,778'**  
 3,698- 3,714, 3,718-26, 3,732-40, 3,748-  
 78'

7" @ 3,824' w/200 sx Cmt

TANSILL 3,003'  
 (file pick)

YATES 3,151'

7 RVRS 3,350'

QUEEN 3,772'

TD 3,825'

Well File       OCD File

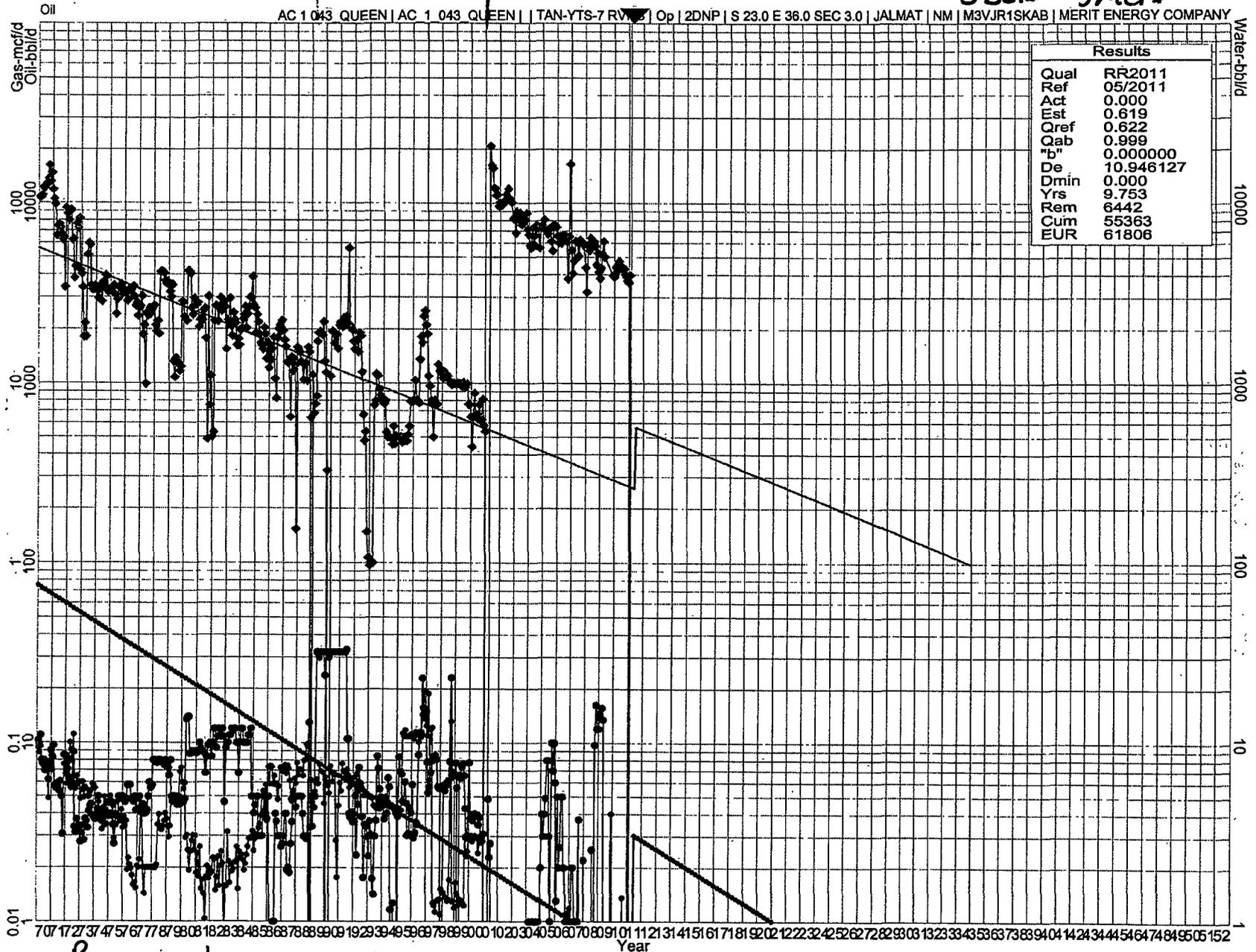
Current

QUEEN

TRINITY YATES

Current Production  
40 MCFD 0 BOPD  
Est QUEEN Prod.  
3 BOPD 5 MCFD

AC 1 043 QUEEN | AC 1 043 QUEEN | TAN-YTS-7 R/V | Op | 2DNP | S 23.0 E 36.0 SEC 3.0 | JALMAT | NM | M3VJR1SKAB | MERIT ENERGY COMPANY



Est QUEEN Production

ALLOCATION

OIL 100% QUEEN

GAS: 10% QUEEN

90% TRINITY YATES

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 July 16, 2010  
Submit one copy to appropriate  
District Office  
 AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-09236		<sup>2</sup> Pool Code 24130		<sup>3</sup> Pool Name Eunice 7 Rivers Queen South	
<sup>4</sup> Property Code		<sup>5</sup> Property Name State A A/C 1			<sup>6</sup> Well Number 43
<sup>7</sup> OGRID No. 14591		<sup>8</sup> Operator Name Merit Energy Company			<sup>9</sup> Elevation

<sup>10</sup> Surface Location

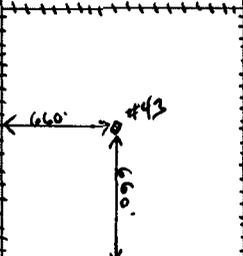
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	3	22S	36E		660	South	660	West	Lea

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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.

16				<p><b><sup>17</sup> 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> 06/28/2011 Signature Date</p> <p>Matt Ogden Printed Name</p> <p>matt.ogden@meritenergy.com E-mail Address</p>	
				<p><b><sup>18</sup> 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>	
				Certificate Number	

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

Form  
 Revised February 2000  
 Instructions  
 Submit to Appropriate District  
 State Lease - 4  
 Fee Lease - 3

AMENDED RETURN

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-09236</b>		2 Pool Code <b>79240</b>		3 Pool Name <b>Jalmat, Tnsi, Yts, 7-Rivers (Pro Gas)</b>	
4 Property Code <b>24669</b>		5 Property Name <b>State 'A' A/C I</b>			6 Well Number <b>43</b>
7 OGRID No. <b>162791</b>		8 Operator Name <b>Raptor Resources, Inc,</b>			9 Elevation

10 Surface Location

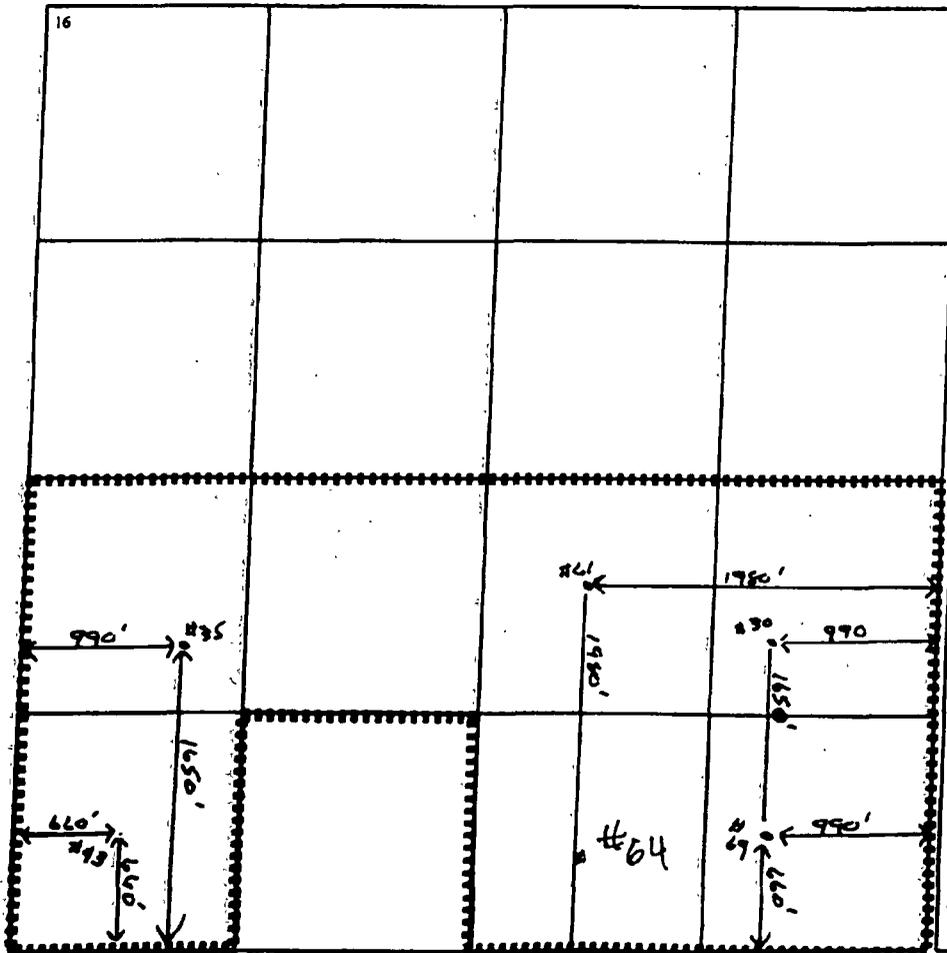
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>M</b>	<b>3</b>	<b>23S</b>	<b>36E</b>		<b>660</b>	<b>South</b>	<b>660</b>	<b>West</b>	<b>Lea</b>

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 <b>230</b> <del>300</del>	13 Joint or Infill	14 Consolidation Code	15 Order No. <b>NSP-1809(L)(SD)</b>
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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 - Raptor  
 Title

Date of Survey

Disc

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by 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



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

Date: June 30, 2011  
To: New Mexico Oil Conservation Division  
Attention: William V Jones P.E.  
**RE. Jalmat Field: 6 Commingling Applications**  
**Lea County, New Mexico**

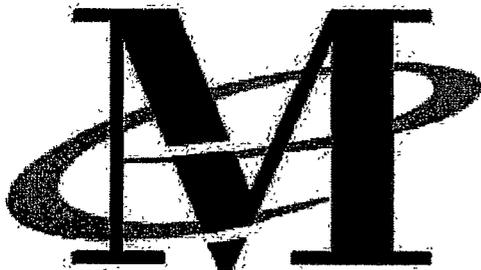
Merit Energy Company has requested approval to commingle the Queen formation (Langlie Mattix Pool) with the Tansill-Yates-Seven Rivers formation (Jalmat Pool).

Commingling the Jalmat Pool with the Langlie Mattix Pool in A 15, D 23, O 3, and C 23 T22S R36E in Lea County is in the interest of both royalty owners and the conservation. Commingling will extend the life of each well and optimize recovery from Both Pools. The 6 well's commercial value will be extended 30 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,

Brett Keener  
Operations Engineer  
[brett.keener@meritenergy.com](mailto:brett.keener@meritenergy.com)  
Phone: 972-628-1592  
Fax: 972-682-1892



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

Date: June 27, 2011  
To: New Mexico Oil Conservation Division  
Attention: William V Jones P.E.  
RE. **Jalmat Field: AAC-1 #43, 61,64,65,73,90 -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