

DATE IN <u>5/16/11</u>	SUSPENSE	ENGINEER <u>WVJ</u>	LOGGED IN <u>5/16/11</u>	TYPE <u>DHC</u>	APP NO. <u>1113655661</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



PTGW
Merit
14591

State A AIC 2 #4

ADMINISTRATIVE APPLICATION CHECKLIST *30-025-08853*

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] 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* *5/12/11*
 Print or Type Name Signature Title Date
Matt.Ogden@meritenergy.com
 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

Merit Energy Company 13727 Noel Rd Ste 500 Dallas, TX 75240
Operator Address
State A A/C 2 4 Unit M - Sect. 9M - T22S - R36E Lea
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 14591 Property Code 24671 API No. 30-025-08853 Lease Type: ☐ Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Jalmat - Tan Yates 7 Rivers		Langlie Mattix - Queen
Pool Code	79240		24130
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3210'-3261'		3618'-3795'
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)	1.3174 BTU		33.6 API / 1.2088 BTU
Producing, Shut-In or New Zone	Producing		SI
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: 03/12/2011 Rates: 25mcf/1bwpd	Date: Rates:	Date: Rates: 4bopd/10mcf
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 75 %	Oil % Gas %	Oil 100 % Gas 25 %

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 Matt Ogden TITLE Regulatory Analyst DATE 05/12/2011
TYPE OR PRINT NAME Matt Ogden TELEPHONE NO. () (972)628-1603
E-MAIL ADDRESS matt.ogden@meritenergy.com

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

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 30-025-08853		2 Pool Code 79240		3 Pool Name Jalmat, TnsI, Yts, 7-Rivers (Pro Gas) (79240)	
4 Property Code 24671		5 Property Name State A A/C 2			6 Well Number 4
7 OGRID No. 162791		8 Operator Name Raptor Resources, Inc.			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
M	9	22S	36E		660	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. <i>Applied for NSL-2872-C (SD)</i>
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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 <i>Bill R. Keathly</i> Signature Bill R. Keathly Printed Name Regulatory Agent - Raptor Title 6-8-99 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	

R PU

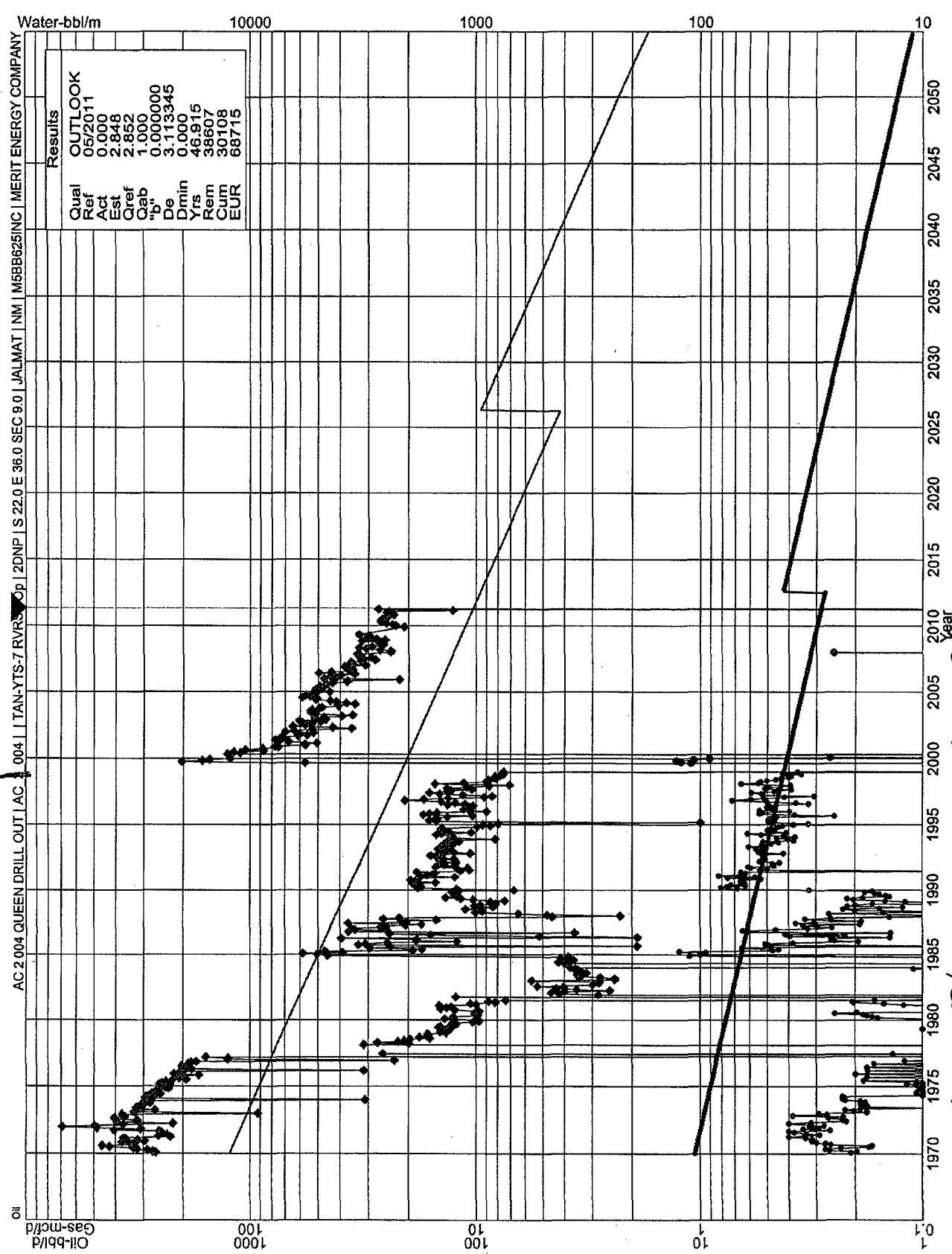
FORM	TOP																																		
		<div style="display: flex; justify-content: space-between;"> <div> <p>12 1/2" @ 235' w/200 sx Cmt, circ</p> <p>9 5/8" @ 1,485' w/600 sx Cmt</p> </div> <div> <p>State AAC-2 #4</p> <p>CURRENT WELLBORE DIAGRAM</p> <p>RAPTOR RESOURCES INC</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SU-T-R</td> <td>9M-22S-36E</td> <td>API #: 30-025-08853-0000</td> </tr> <tr> <td>POOL:</td> <td colspan="2">JALMAT; TAN-YATES-7 RVRS (PRO GAS)</td> </tr> <tr> <td>CO, ST:</td> <td>LEA, NEW MEXICO</td> <td>LAND TYPE: STATE</td> </tr> <tr> <td>STATUS:</td> <td>ACTIVE</td> <td>ACREAGE 40.12</td> </tr> <tr> <td colspan="3">LATEST RIG WORKOVER:</td> </tr> <tr> <td colspan="3">DIAGRAM REVISED: 1/24/2004 BY DL/SJP</td> </tr> </table> </div> </div>	SU-T-R	9M-22S-36E	API #: 30-025-08853-0000	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: 1/24/2004 BY DL/SJP																	
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			<p>Core data in file 3584-3684'</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>CASING</th> <th>LINER</th> <th>TUBING</th> </tr> </thead> <tbody> <tr> <td>Hole</td> <td>15 1/2"</td> <td>11 1/4"</td> <td>8 3/4"</td> </tr> <tr> <td>Pipe</td> <td>12 1/2"</td> <td>9 5/8"</td> <td>7"</td> </tr> <tr> <td>Weight</td> <td>50#</td> <td>36#</td> <td>24#</td> </tr> <tr> <td>Grade</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Thread</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Depth</td> <td>235'</td> <td>1,485'</td> <td>3,625'</td> </tr> <tr> <td>Mud wt</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		CASING	LINER	TUBING	Hole	15 1/2"	11 1/4"	8 3/4"	Pipe	12 1/2"	9 5/8"	7"	Weight	50#	36#	24#	Grade				Thread				Depth	235'	1,485'	3,625'	Mud wt			
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TANSILL	2,964'		<p>TOC est 2,975'</p>																																
YATES	3,134'		<p>TAN-YATES-7 RVRS ZONE HISTORY</p> <p>8/18/99 Recompleted from Queen. Perforated 3210-3261' Acidized 2000 gal 15% acid Ran 3-1/2" work tbg, set pkr at 3,365' Frac w/31,070 gal 40# gel, foamed to 50 quality w/58 tons CO2 w/106,400# 12/20 sand @ 55 BPM avg. Well screened out w/approx 100,000# in formation. Flowed back & cleaned out minor amt of sand fill twice. POP. Ran 2-7/8" prod tubing to 3,278' Ran 2 1/2" x 1 1/2" x 12' pump and rods. IP 0 BOPD, 3 BWPD, 255 MCFD</p>																																
7 RVRS	3,316'		<p>OPPORTUNITY</p> <p>Possibly more pay in 7 Rvrs. 1/27/04 SJP</p>																																
QUEEN	3,715'		<p>QUEEN ZONE HISTORY</p> <p>5/31/37 Spud. 7/29/37 Initial Completion Pool EUNICE; SEVEN RIVERS-QUEEN, SOUTH Perforated OH 3625-3877' IP 110 BOPD, 0 BWPD, 3000 MCFPD Shot 3790-3854' w/260 quarts of Nitro. 9/58 Well had been SI/TA'd for some time. Install PU. 1/65 Clean out to TD. Spot 135 sx cmt plug from TD to 3625'. DO to 3800'. Ran 302' 4 1/2" liner, set @ 3,799'. Cmt w/50 sx. Perf 3618-3778'. Acid w/800 gal 15%. Frac w/40,000 gal & 40,000#. Clean up - IPF 18 BO, 2 BW, 1048 MCFD on 30/64" ch & 180# TP. 11/83 Clean out scale in liner 3741-3799'. Spot 120 gal Xylene & acid perfs w/2000 gal 15%. POP. Production 26 BO, 6 BW, 46 MCF. 3/89 Cut paraffin 8/12/99 Set CIBP @ 3,475'</p>																																
		<p>PBTD 3,465'</p> <p>PBTD 3,795'</p> <p>TD 3,877'</p>	<p>SELECT PERFS: 67 Holes 3210-11, 28-29, 50, 58, 59, 64, 68, 72-74, 93-94, 3303, 13-15, 20-21, 30-31, 37-38, 55-56, 60-61'</p> <p>CIBP @ 3,497' on 8/12/99</p> <p>7" @ 3,625' w/150 sx Cmt</p> <p>3618, 28, 35, 47, 64 75, 81, 3701, 20, 32, 70, 78' } Queen Sand</p> <p>4 1/2" liner 3,497-3,799'</p>																																

Est Queen Para
48000
10 MCFD

Current Para
25 MCFD

← 7RVS - YATES

QUEEN



DIL 100% QUEEN
GAS 25% QUEEN
75% 7RVS - YATES

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1625 N. French Dr., Hobbs, NM 88240
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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

¹ API Number 30-025-08853		² Pool Code 24130		³ Pool Name Eunice 7 Rivers Queen, South	
⁴ Property Code 302433		⁵ Property Name State A A/C 2			⁶ Well Number 4
⁷ OGRID No. 14591		⁸ Operator Name Merit Energy Company			⁹ Elevation 3566'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot 1 dn	Feet from the	North/South line	Feet from the	East/West line	County
M	9	22S	36E	660	S	660	W	Lea	

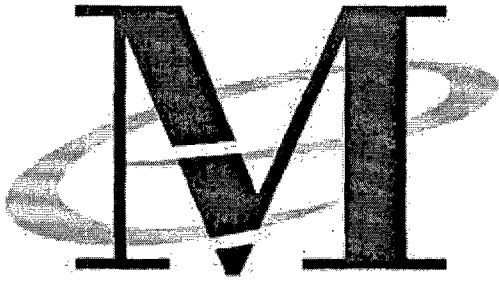
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1 dn	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.
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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.

<div data-bbox="68 976 1055 2000"> <p>16</p> </div>	<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, 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.</p> <p><i>Matt Ogden</i> 05/24/2011 Signature Date</p> <p>Matt Ogden Printed Name</p> <p>matt.ogden@meritenergy.com E-mail Address</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 Signature and Seal of Professional Surveyor:</p>	
	<p>Certificate Number</p>	



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

Date: May 12, 2011
To: New Mexico Oil Conservation Division
Attention: William V Jones P.E.
**RE. Jalmat Field: 12 Commingling Applications
Lea County, New Mexico**

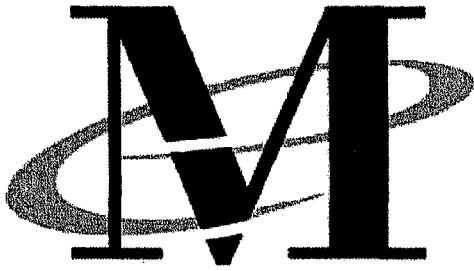
Merit Energy Company has requested approval to commingle the Queen formation (Langlie Mattix Pool) with the Tansill-Yates-Seven Rivers formation (Jalmat Pool).

Commingling the Jalmat Pool with the Langlie Mattix Pool in S 5-9 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 12 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
Phone: 972-628-1592
Fax: 972-682-1892



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

Date: May 12, 2011
To: New Mexico Oil Conservation Division
Attention: William V Jones P.E.
RE. Jalmat Field: State 157 G#2 & G#4, State A A/C 2 #1, State AAC-2 #2, #4, #7, #31,
#34, #46, #47, & #70 Yates-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
Phone: 972-628-1557
Fax: 972-682-1857