

DATE IN 5.16.11	SUSPENSE	ENGINEER WVJ	LOGGED IN 5.16.11	TYPE DHC	APP NO. 1113656869
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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



merit 14591

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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 _____

[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
 Print or Type Name

Matt Ogden
 Signature

Regulatory Analyst
 Title

5/12/11
 Date

mat.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 1 Unit - Sect. 9N - T22S - R36E Lea
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 14591 Property Code 24671 API No. 30-025-08849 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)	3128'-3258'		3698'-3874'
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: 21mcf/1bwpd	Date: Rates:	Date: Rates: 5mcf/1bopd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 0 % 80 %	Oil Gas % %	Oil Gas 100 % 20 %

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

FORM	TOP			STATE A A/C 2 #1	
		CURRENT WELLBORE DIAGRAM			
		RAPTOR RESOURCES INC			
		SU-T-R	9N-22S-36E	API #: 30-025-08849	
		POOL: JALMAT-TAN-YATES-7 RVRS (Pro Gas)			
		CO, ST:	LEA, NM	LAND TYPE: STATE	
		STATUS: ACTIVE		ACREAGE	
		LATEST RIG WORKOVER: 8/25/93			
		DIAGRAM REVISED: 1/29/2004 BY J. Nicholson			
		LOG ELEVATION: DF 3567'			
		GROUND ELEVATION: 3558'			
		CASING		TUBING	
		Hole			
		Pipe	12-1/2"	9-5/8"	7"
		Weight	50#	36#	24#
		Grade			
		Thread			
		Depth	249'	1498'	3294'
		Mud wt			
		Cmt	200 sxs	800 sxs	600 sxs
		LOGS			
		Partial log - Type ?		Not Noted	
		Lane Radioactivity Log			
		Schlumberger Comp. Neutron			
				8/19/93	
		CBL		8/19/93	
		TAN-YATES-7 RVRS ZONE HISTORY			
		Recomplete 8/1993 Set CIBP @ 3600'. Perf 3128-3258' Acid: Acidize w/2000g 15% NEFE Frac: w/ 585 bbls gel foamed w/ 133T CO2 carrying 105,000# 12/20 Test: 8/27/93 pumping 0 BOPD, 246 MCFD, 53 BWPD Production problems include salt rings, scale, iron sulfide.			
		OPPORTUNITY			
		7R zone has not been completed. Potential needs review.			
		QUEEN ZONE HISTORY			
		7/5/35 Spud. 8/29/35 Initial Completion Completed openhole 2,698-3835'. Acid: 6000 g acid. Tested 264 BOPD, 75 MCFD Deepened to 3874' on 2/7/36. Tested at 17 Bbl/hr. Acidized 12/13/50 w/500g 20% mud acid Pre - 14.9 BOPD, 904 BWPD post - 44.6 BOPD; 898 BWPD. Acidized 7/22/52 w/500g 15% acid Pre - 13 BOPD, 173 BWPD Post - 28 BOPD; 751 BWPD. 8/7/56 Water shut-off: Bridge back to 3775' w/pea gravel and lead wool. SOT w/20,000g oil & 20,000# sand. Pre - 0 BOPD, 616 BWPD Post - 47 BOPD; 376 MCFD, 0 BWPD.			

12-1/2" @ 249'
w 200 sx Cmt

9-5/8" @ 1,498" w/800 sxs

TOC @ 2890'
CBL 8/20/93

SELECT PERFS: 8/93
1 SPF
3128, 3132, 3143, 3147, 3152, 3172,
3174, 3177, 3182, 3202, 3205, 3210,
3225, 3230, 3232, 3235, 3247, 3250,
3254, 3258

CIBP @ 3600' 8/93
w/ 2 sxs cmt.

7" @ 3,698' w 600 sx Cmt

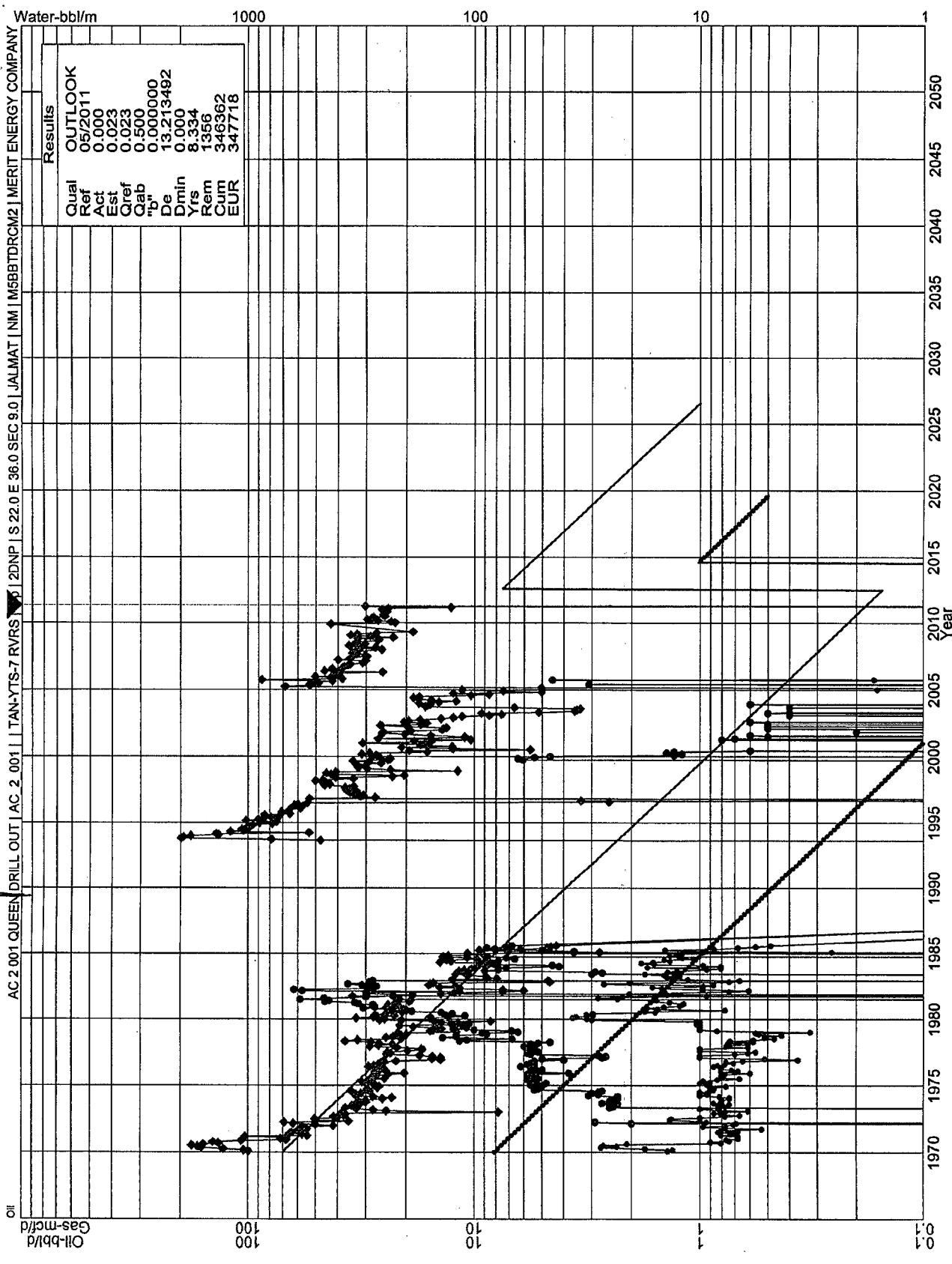
Original TD of 3835'. 8/35
Deepened 2/7/36 to 3874'

Current

Est Queen Prod
1 BOPD
5 MCFD

Current Prod
21 MCFD

Queen
→ 7 RVS-YATES



Allocation OIL 100% QUEEN GAS: 80% 7 RVS-YATES 20% QUEEN

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
Instructions

Submit to Appropriate District
State Lease - 4
Fee Lease - 3

☐ AMENDED R.

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-08847		2 Pool Code 79240	3 Pool Name Jalmat, Tnsi, Yts, 7-Rivers (Pro Gas)	
4 Property Code 24671	5 Property Name State 'A' A/C 2			6 Well Number 1
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
N	9	22S	36E		660	South	1980	West	Lea

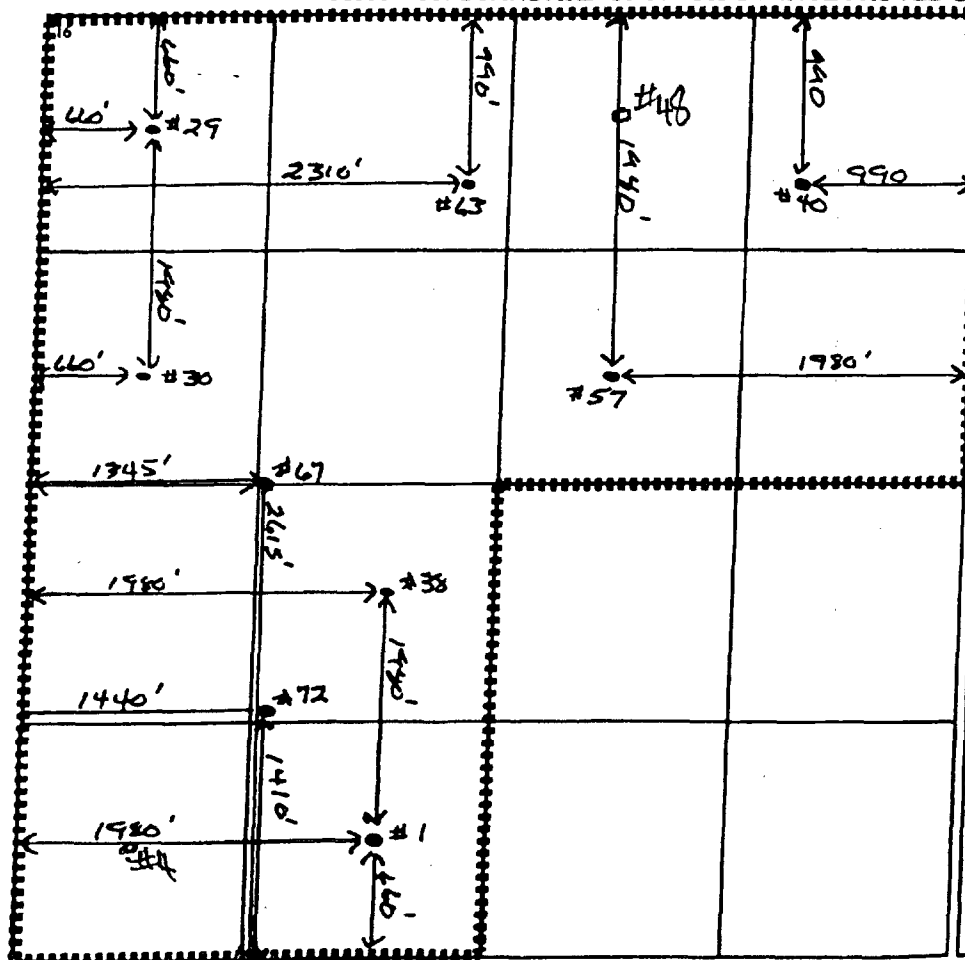
11 Bottom Hole Location If Different From Surface

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.
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Applied 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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained here 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

10-4-99
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 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 July 16, 2010
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-08849	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 1
⁷ OGRID No. 14591	⁸ Operator Name Merit Energy Company	⁹ Elevation 3558'

¹⁰ Surface Location

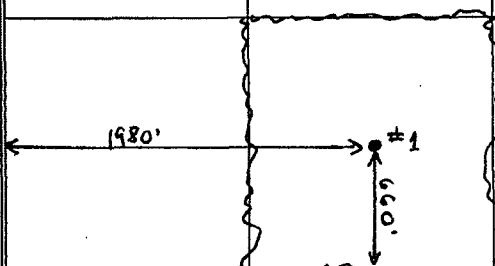
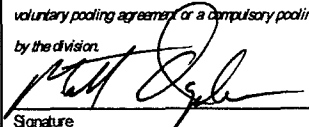
UL or lot no.	Section	Township	Range	Lot 1 dn	Feet from the	North/South line	Feet from the	East/West line	County
N	9	22S	36E		660	S	1980	W	Lea

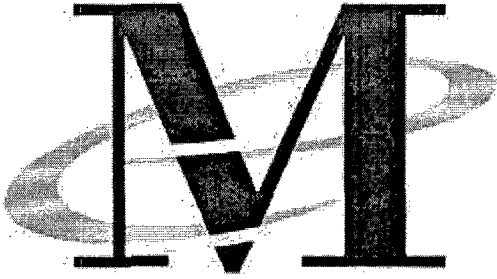
¹¹ Bottom Hole Location If Different From Surface

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>16</div> 	<div>¹⁷ OPERATOR CERTIFICATION 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.  Signature Date 05/24/2011 Printed Name Matt Ogden E-mail Address matt.ogden@meritenergy.com</div> <div>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</div>



*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**

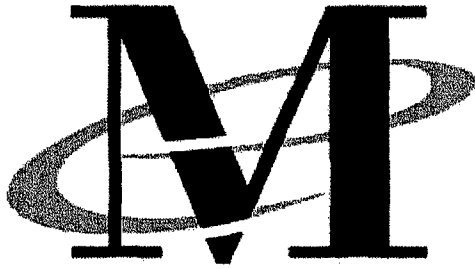
Merit Energy Company has requested approval to commingle the Queen formation (Langlie Mattix Pool) with the Tansill-Yates-Seven Rivers formation (Jalmat Pool).

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