

DATE 7/15	SUSPENSE	ENGINEER WVS	LOGGED IN 7/19	TYPE DHC (4431)	FILE NO WVS 1120057199
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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



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.

Print or Type Name

Signature

Regulatory Analyst
 Title

7/16/11
 Date

Matt.ogden@nmtenergy.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 1

84

G-23-23S-36E

Lea

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 14591 Property Code API No. 30-025-09397 Lease Type: ☐ Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Jalmat Tansil Yates 7-Rivers		Eunice 7 Rivers Queen South
Pool Code	79240		24130
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2918'-3506'		3519'-3585'
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: 07/10/2011 Rates: 40mcf/0 BO	Date: Rates:	Date: Rates: 10mcf/2 BO
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 [Signature] TITLE Regulatory Analyst DATE 07/11/2011

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

E-MAIL ADDRESS matt.ogden@meritenergy.com

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 30-025-09397		² Pool Code 24130		³ Pool Name Eunice 7 Rivers Queen South	
⁴ Property Code State A A/C 1		⁵ Property Name			⁶ Well Number 84
⁷ OGRID No. 14591		⁸ Operator Name Merit Energy Company			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
G	23	23S	36E		1980	North	2310	East	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 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="66 987 1047 2002"> <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>[Signature]</i> 07/11/2011 Signature Date Matt Ogden Printed Name 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>	

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

Form C-102

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- 09397		2 Pool Code 79240		3 Pool Name Jalmat: Tan-Yates-7 rtrs (Pro Gas)	
4 Property Code 24669		5 Property Name State "A" A/C 1			6 Well Number 84
7 OGRID No. 162791		8 Operator Name Raptor Resources			9 Elevation

10 Surface Location

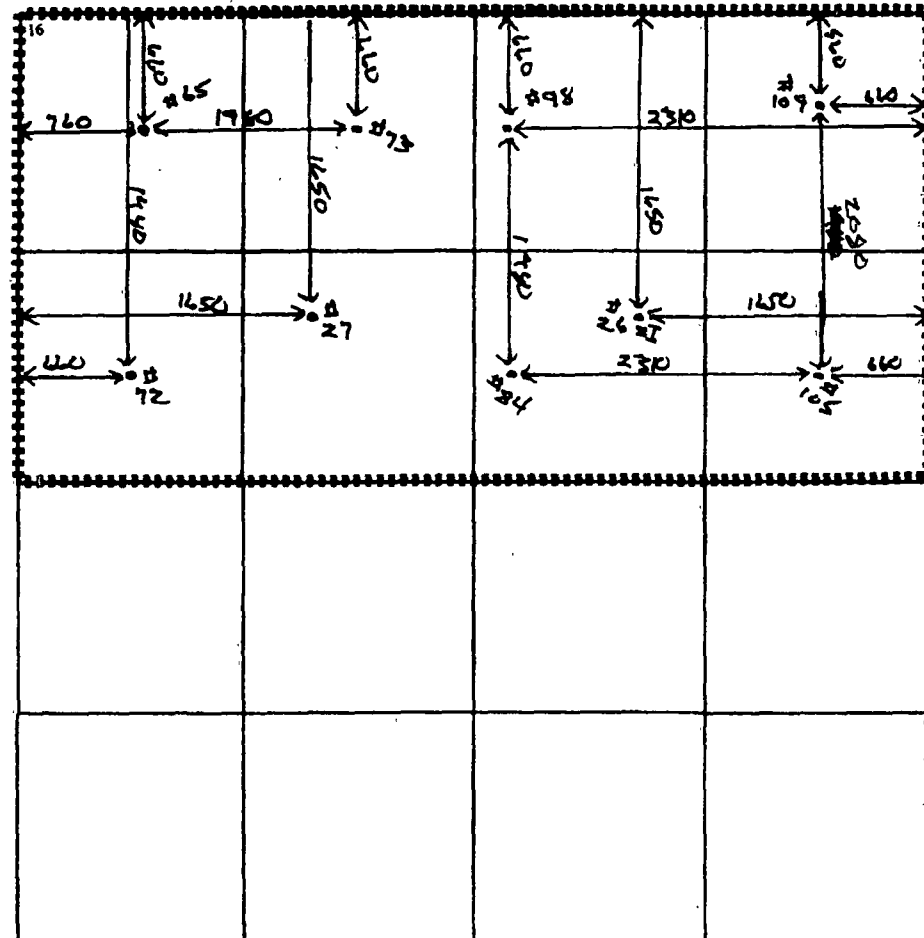
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	23	23S	36E		1980	North	2310	East	Lea

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 320	13 Joint or Infill	14 Consolidation Code	15 Order No. NSL-3023-A (SD)
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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
Title	4-11-00
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	

Lease & Well No. **State A A/C 1 # 84**
Field Name **Jalmat**
Location **Unit G, Sec. 23, T23S, R36E**

Status **Active**
County & State **Lea County, NM**
API No. **30-025-09397**
Pool Name **Jalmat: Tansill Yates Seven Rivers**

Well Information

Spud: **2/29/1960** Ground Elevation: **3,350'** D.F. Elevation: _____
Completed: _____ KB Elevation: _____ Total Depth: **3,585'**

Pipe Data

Surface						
Hole size	Depth	Size (OD)	Weight	Grade	Sx. Cmt	Comments
	334'	9-5/8"	32.0#		300 sx	Cmnt Circulated
Production						
Hole size	Depth	Size (OD)	Weight	Grade	Sx. Cmt	Comments
	3,529'	7"	20.0#		250 sx	TOC=1980 by Temp Survey

Downhole Tubulars (Top to Btm):

100 jts 2 3/8" SN
32-7/8" rods, 91-3/4" rods, 2"x1 1/16"x12"

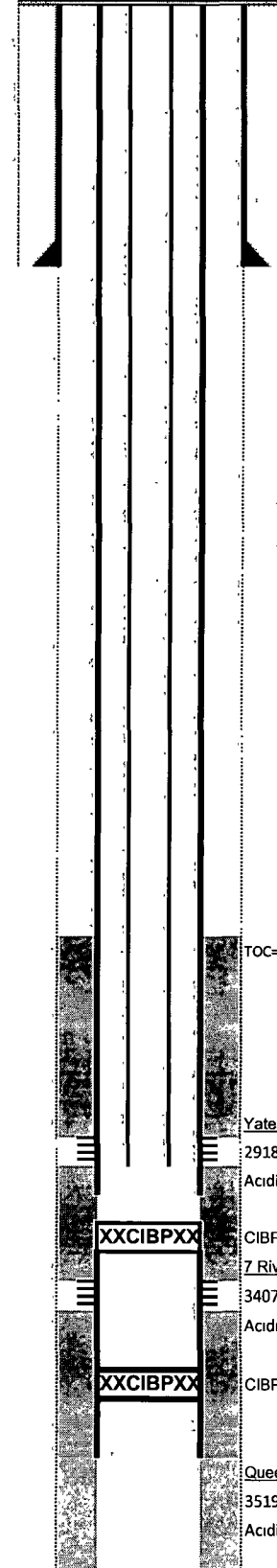
Well History

3/16/1960 Open Hole Frac Queen 3519-3585 (Vibro Frac 3548-51), Frac with 10,000 gals oil 10,000 lbs sand / IP 50 BO
1/12/1971 Set CIBP @ 3520' / Perforate 7Rvrs 3407-3506 / Acidize with 1800 gals, Frac'd w 750 bbls brine 20 bpm @ 1000 psi 30,000 lbs 20/40 // ISIP: 500 ISIP15 200 / IP: 8 BO 195 MCFD
8/8/1990 Tag with B&S @ 3490' / Log / Set 7" CIBP @ 3380' / Perf Yates: 2918 23 25 45 51 70 87 89 3009 27 29 3104 21 23 3322 24 46 48 50 / Acidize and Swab lower perms - Swab dry
8/10/1990 Set 7" RBP @ 3300' / Acidize remaining perms
8/13/1990 Frac down 2-7/8" 30 bpm @ 3300 psig 2#-9#/gal 20/40 200,000 lbs; 1365 bbls 30# XL
12/17/1990 CO Frac sand with Air / Retrieve 7" RBP - Well flowing gas and sand / CO fill to 3380' 2x
3/1/2005 Tag @ 3357' / Log Well / Perf 3174 76 3207 35 50 78 83 91 3305 12 / Acidize with PPI Tool
Frac down 4-1/2" with Arrowset Pkr Set @ 2761; CO2 Frac 60 bpm @ 2447 psig 2508 sks 12/20 / ISIP: 3037
3/10/2005 CO Fill to 3380' and POP / CUM Costs = 260,000

Procedures

- 1 Collect Oil & Wtr Samples Submit to X-Chem / MIRU W/O Rig. RU H2S Equipment - Pre-job sfty mtg / Disc Pwr supply Lock/out Tag/out
- 2 ND HH; RU Rod Equipment, Unseat Pump and TOH with Rods / ND WH, NU BOPs and Test / Rack Back Tubing
- 3 NU 6 1/8" Varel Bit, 6 DCs, Tally Tbg in Hole, Tag CIBP or Fill / RU Air Foam Unit w/Mist Pump / Spot 500 bbl frac tank and fill w/2% KCL
- 4 RU Flowlines from each csg port to gas buster tank Eliminate excessive bends or 90's - sand will cut out valves and flowlines
- 5 Circ well w/Air & Mist Pump to 3380' / DO CIBP / RIH to 3520 - CO fill with Air / DO CIBP
- 6 RIH to TD / CO Fill / Circ Well Clean for a minimum of 2 hrs
- 7 Rack back tubing / LD DCs / NU BP, MJ, Perf Sub; Seat Nipple, and RIH w/ TBG
- 8 Land Tbg SN @ 3515' / ND BOPs NU Tubing Head / RU Rod Equipment
- 9 PU 12' GA, 40 Ring PA Plunger Pump, On/Off Tool, RIH w/rods, N
- # Clean Location; RDMO W/O Rig

Current Status



OCD Tops (MD)

Tansill	
Yates	2,905'
7 Rivers	3,129'
Queen	3,494'
San Andres	
Glorieta	
Bone Spring	
Bone SS	
Abo	
Wolfcamp	
Strawn	
Atoka	

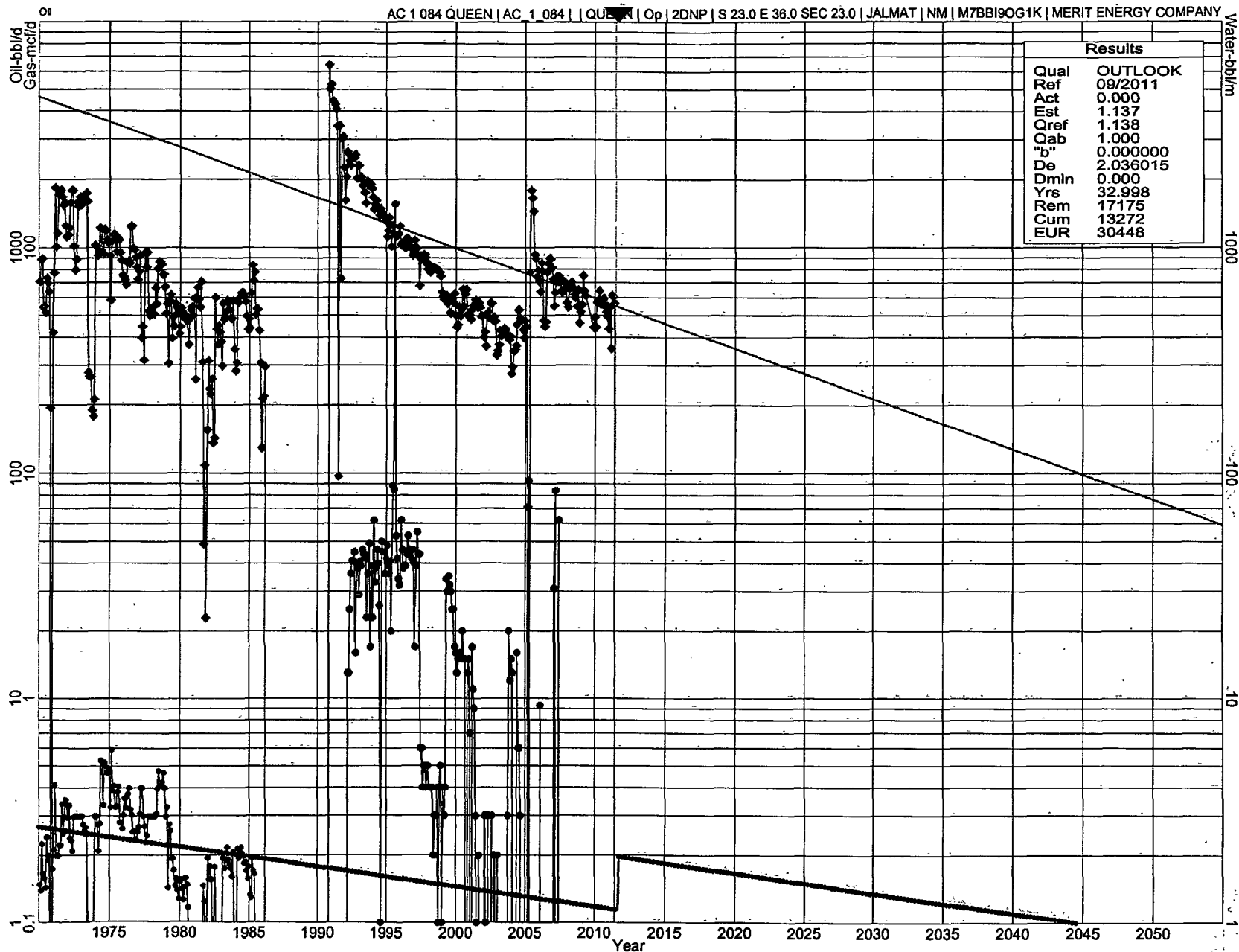
PBTD 3380

Allocation

OIL 100% QUEEN ZBOPD

GAS

20% QUEEN 10MCFD
80% JAMES-TLIES 50MCFD





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

Date: July 11, 2011
To: New Mexico Oil Conservation Division
Attention: William V Jones P.E.
RE. Jalmat Field: 3 Commingling Applications
Lea County, New Mexico

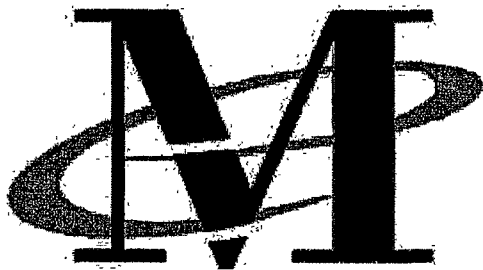
Merit Energy Company has requested approval to commingle the Queen formation (Langlie Mattix Pool) with the Tansill-Yates-Seven Rivers formation (Jalmat Pool).

Commingling the Jalmat Pool with the Langlie Mattix Pool in G 15/23 T22S R36E and B 15 T23S 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 3 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: July 13, 2011
To: New Mexico Oil Conservation Division
Attention: William V Jones P.E.
RE. Jalmat Field: AAC-1 #84 -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