

DATE IN 7.29.11	SUSPENSE	ENGINEER WVJ	LOGGED IN 7.29.11	TYPE DHC	APP NO 1121054392
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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



PTG-W
 Merit 14591

State A A/c 2nd 27

ADMINISTRATIVE APPLICATION CHECKLIST 30-025-08789

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:

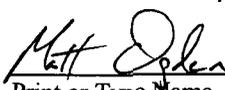
- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

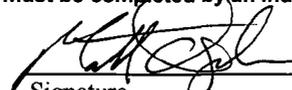
- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 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

7/29/11 _____
 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 27 P-5-22S-36E Lea
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 14591 Property Code API No. 30-025-08789 Lease Type: Federal X 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)	3055'-3355'		3675'-3872'
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: 07/20/2011 Rates: 10mcf/0 bopd	Date: Rates:	Date: Rates: 10mcf/2 bopd
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 % 50 %	Oil Gas % %	Oil Gas 100 % 50 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes X 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 X No

Will commingling decrease the value of production? Yes No X

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 X 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 07/22/2011

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

E-MAIL ADDRESS matt.ogden@meritenergy.com

FORM TOP

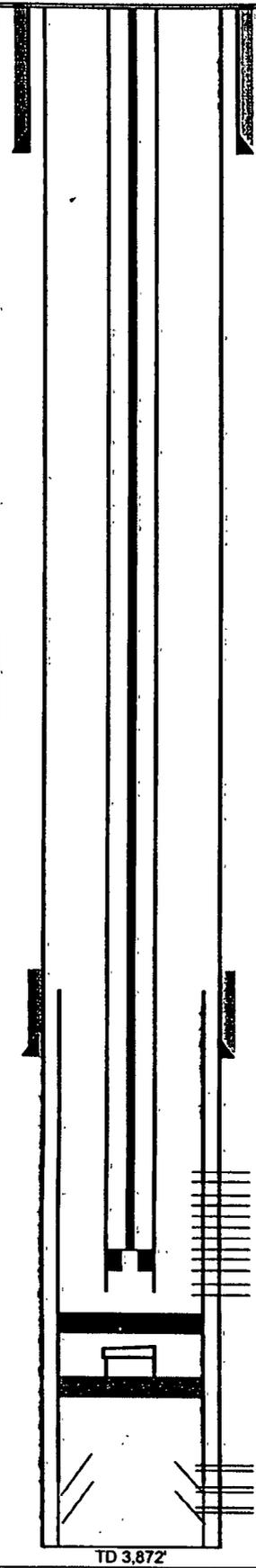
YATES 3,126'

7 RVRS 3,312'

QUEEN 3,693'

3593

TD 3,872'



10" @ 416'
w 200 sx Cmt

LOGS
GRN
CNL

TOC @ 455'
w/75% SF

5 1/2" liner
set @ 3,063-3,725

7" @ 3,089'
w/400 sx Cmt

SELECT PERFS: 14 Holes
3055', 3076', 3110', 3152',
3168', 3178', 3209', 3230',
3243', 3250', 3290', 3296',
3309', 3355'

CIBP @ 3,450' 12/89

Pkr stuck @ 3,495' & tbg cut @ 3,468'

4 1/2" slotted liner
@ 3,675-3,865' w/ 60 sx Cmt

PERFS 3772'-3802' } Queen Sand

ACC-2 #27		
CURRENT WELLBORE DIAGRAM		
MISSION RESOURCES INC		
SU-T-R	5P-22S-36E	API #: 30-025-08789-0000
POOL: JALMAT; TAN-YATES-7 RVRS (OIL)		
CO, ST:	LEA, NEW MEXICO	LAND TYPE: STATE
STATUS:	ACTIVE	ACREAGE 40.12
LATEST RIG WORKOVER:	5/21/1997	
DIAGRAM REVISED:	1/11/2004 BY Robert Lee	

LOG ELEVATION: 3,587' DF
GROUND ELEVATION: 3,578'

	CASING		LINER		TUBING
Hole	13"	8 3/4"			
Pipe	10"	7"	4 1/2"	5 1/2"	2 3/8"
Weight	40#	24#	12.6#	17#	4.7#
Grade					
Thread					
Depth	416'	3,089'	3,675-3,865'	3,063-3,725'	3,428'
Mud wt					

TAN-YATES-7 RVRS ZONE HISTORY

12/23/64 Dual completed w/Queen.
Perforated select 14 holes 3055'-3355'
Acidized 2000 gal acid
Frac w/20,000 gal oil & 20,000# sand 29.7BPM
Ran 2-3/8" prod tubing to 3,428'
Ran 2" x 1-1/16" x 12' pump and rods.
IP 0 BOPD 0 BWPD 1575 MCFD
12/89 Long string packer stuck - cut tbg @ 3,468'.
Set CIBP @ 3,450'. Tbg set @ 3,428'.

OPPORTUNITY

Refrac gas zone w/larger job. Comp in Tan-Yates & very little in 7 Rvrs. RL 1/11/04

QUEEN ZONE HISTORY

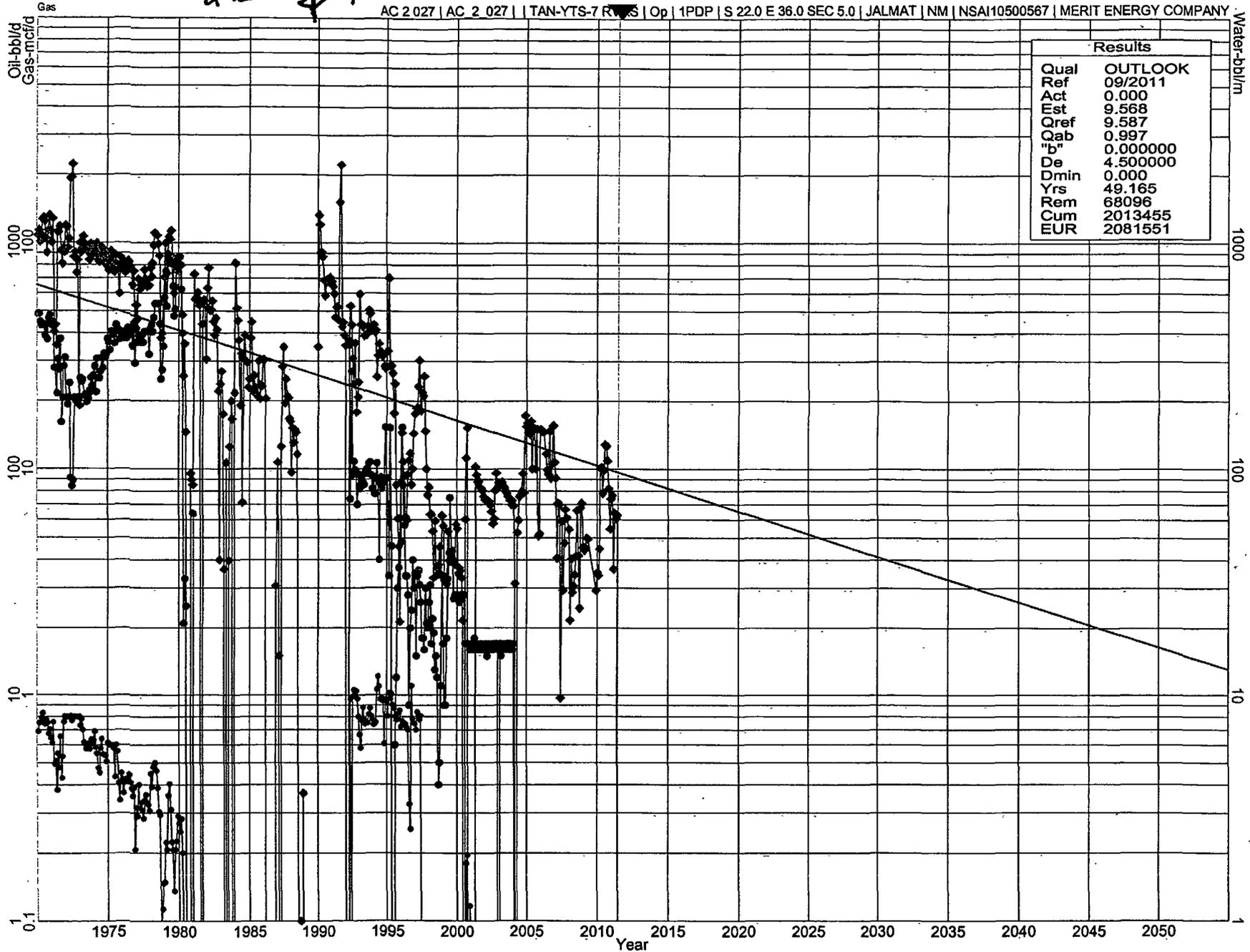
3/23/43 Spud. 4/24/43 Initial Completion
Pool EUNICE; SEVEN RIVERS-QUEEN, SOUTH
Perforated Open hole 3,725-3,872'
Acidized 2000 gal acid
IP 624 BOPD 1166 MCFD Flowing
11/50 Perfed tbg @ 3,814-18' - no increase
4/52 Cleaned out hole to 3,868'. Acidize w/5000 gal
Before work - 20 BO, 1403 MCF
After work - 36 BO
7/62 Clean to TD. Vibro-frac w/ 3 #3 shots @ 3,791-95'. Ran 190' 4-1/2" liner 3,675-3,865'. Slotted @ 3,772-3,803'. Frac w/20,000 gal & 40,000# sand + 500# Adomite.
IP 103 BO, 179 MCFPD
12/64 Dual completion Yates & Queen. Long string set @ 3,520', short string @ 2,964'.

ALLOCATION
OIL 100% QUEEN 25000

GAS 50% YATES-71VRS 10MCFD
50% QUEEN 10MCFD

QUEEN ↗ YATES-71VRS

AC 2.027 | AC 2.027 | TAN-YTS-7 R VRS | Op | 1PDP | S 22.0 E 36.0 SEC 5.0 | JALMAT | NM | NSA10500567 | MERIT ENERGY COMPANY



Results	
Qual	OUTLOOK
Ref	09/2011
Act	0.000
Est	9.568
Qref	9.587
Qab	0.997
"b"	0.000000
De	4.500000
Dmin	0.000
Yrs	49.165
Rem	68096
Cum	2013455
EUR	2081551

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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 30-025-08789		² Pool Code 24130		³ Pool Name Eunice 7 Rivers Queen South	
⁴ Property Code		⁵ Property Name State A A/C 2			⁶ Well Number 27
⁷ OGRID No. 14591		⁸ Operator Name Merit Energy Company			⁹ Elevation

¹⁰ Surface Location

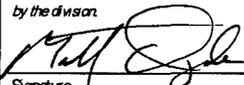
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	22S	36E		660	South	660	East	Lea

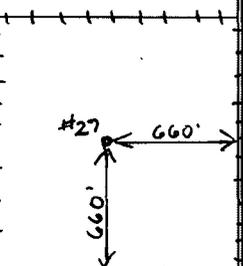
¹¹ Bottom Hole Location If Different From Surface

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.

16				<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> 07/22/2011 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</p> <p>Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>	



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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 October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-08789 ✓	Pool Code 79240	Pool Name JALMAT; TAN-Y-7R (GAS)
Property Code 302433 ✓	Property Name STATE A A/C 2	Well Number 27
OGRID No. 194849 ✓	Operator Name PETROHAWK OPERATING COMPANY	Elevation

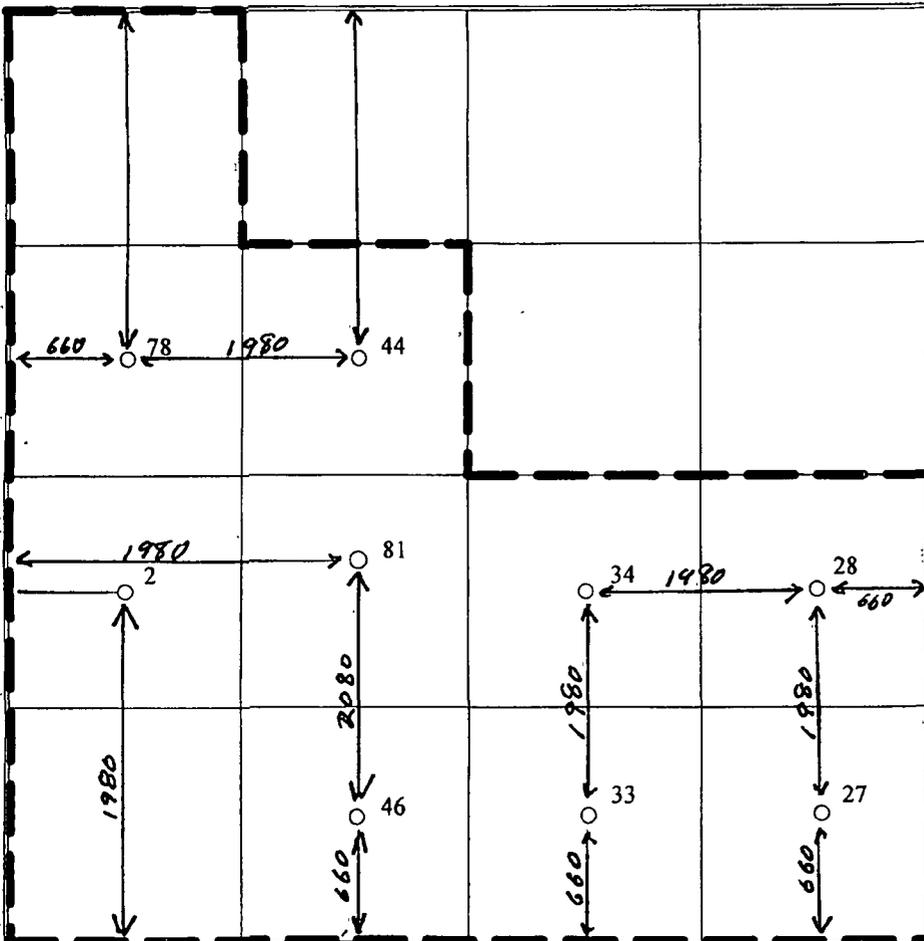
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	22S	36E		660	SOUTH	660	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
					"Dedicated Acres 440.530				
					"Joint or Infill				
					"Consolidation Code				
					"Order No. NSP-1636-C and SD-200804 (dated February 6, 2008)				

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, 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 hereafter entered by the division

Eddie Seay 02/13/2008
Signature Date

Eddie Seay Agent

Printed Name

RECEIVED

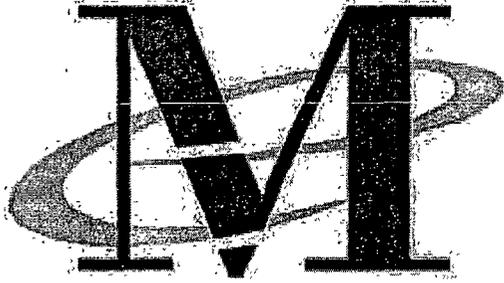
¹⁸ SURVEYOR CERTIFICATION

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 are 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: July 26, 2011
To: New Mexico Oil Conservation Division
Attention: William V Jones P.E.
**RE. Jalmat Field: 4 Commingling Applications
Lea County, New Mexico**

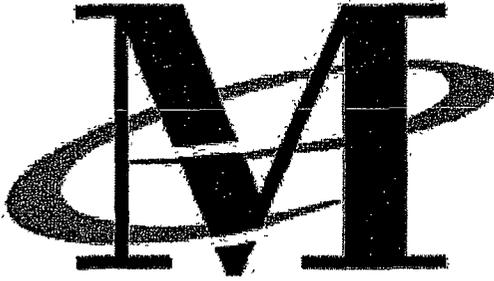
Merit Energy Company has requested approval to commingle the Queen formation (Langlie Mattix Pool) with the Tansill-Yates-Seven Rivers formation (Jalmat Pool).

Commingling the Jalmat Pool with the Langlie Mattix Pool in B8, P5, K9 and L11 of 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 4 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 25, 2011
To: New Mexico Oil Conservation Division
Attention: William V Jones P.E.
RE. **Jalmat Field: AAC-2 #26, 27,67,75 -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