

DATE IN 5.16.11	SUSPENSE	ENGINEER WVJ	LOGGED IN 5.16.11	TYPE DHC	APP NO. 1113656508
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PT64

4396

Merit 14591

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 30-025-08856

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

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

DHC-4396

Merit Energy Company 13727 Noel Rd Ste 500 Dallas, TX 75240

Operator Address

State A A/C 2 31 Unit F - Sect. 9F - T22S - R36E Lea

Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 14591 Property Code 24671 API No. 30-025-08856 Lease Type: Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Jalmat - Tan Yates 7 Rivers <i>607</i>		<i>Source 7KVRS QW</i> Langlie Mattix - Queen
Pool Code	79240		24130 <input checked="" type="checkbox"/>
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3128'-3517'		3644'-3668'
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: 50mcf/1bwpd	Date: Rates:	Date: Rates: 1bopd/30mcf
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 50 %	Oil % Gas %	Oil 100 % Gas 50 %

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:

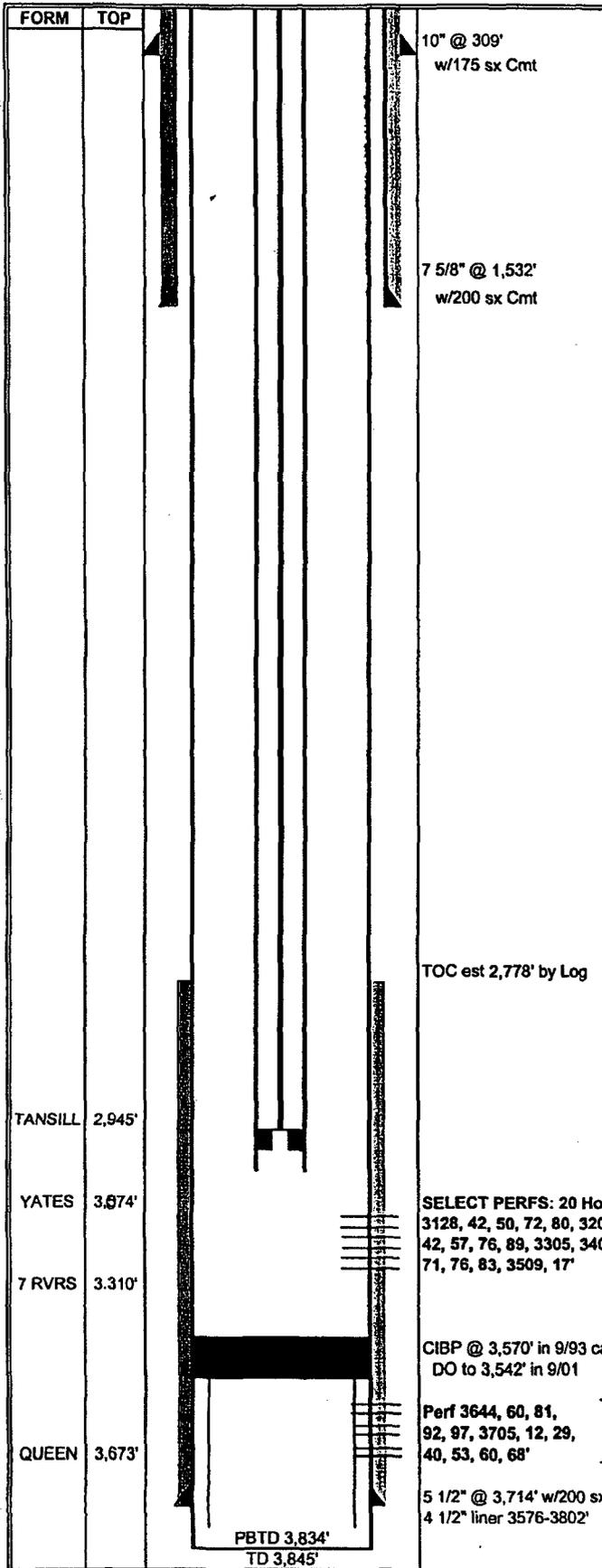
- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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



State AAC-2 #31	
CURRENT WELLBORE DIAGRAM	
RAPTOR RESOURCES INC	
SU-T-R 9F-22S-36E	API #: 30-025-08856
POOL: JALMAT; TAN-YATES-7 RVRS (PRO GAS)	
CO, ST: LEA, NEW MEXICO	LAND TYPE: STATE
STATUS: ACTIVE	ACREAGE 40.12
LATEST RIG WORKOVER: 12/94 P&A job	
DIAGRAM REVISED: 1/28/2004 BY SJP	

LOG ELEVATION: N/R
GROUND ELEVATION: 3,574'

	CASING			LINER	TUBING
Hole	11"	9 7/8"	7 1/4"		
Pipe	10"	7 5/8"	5 1/2"	4 1/2"	2 3/8"
Weight	40#	28.4#	14#		4.7#
Grade					
Thread					
Depth	299'	1,532'	3,714'	3,576-3,802'	3,329'
Mud wt					

TAN-YATES-7 RVRS ZONE HISTORY

9/12/01 Recompleted from Queen.
 Perforated 3128-3517'
 Acidized 1000 gal 15%
 4/03 Ran 3-1/2" work tbg, set pkr at 3,028'
 Frac w/53,429 gal 40# gel, foamed to 65 quality w/345 tons CO₂ w/46,733# 20/40 sand & 238,762# 12/20 sand
 Ran 2-3/8" prod tubing to 3,329'
 Ran 2" x 1 1/2" x 12' pump and rods.
 IP 0 BOPD 3 BWPD 189 MCFD

OPPORTUNITY

Chemical treating program should be reviewed. No evidence of chemical treatment.
 7 Rvrs/Tansill not tstd 1/28/04 SJP

QUEEN ZONE HISTORY

11/31/45 Spud. 11/26/45 Initial Completion
 Pool EUNICE; SEVEN RIVERS-QUEEN, SOUTH
 Perforated pay zone OH 3760-3834'
 IP 120 BOPD, 0 BWPD, 660 MCF
 6/52 Cleaned out 3,805 to TD. Acidized w/5000 gal 15% in 2 stages. Well put on gas lift.
 Before W/O - 3 BO, 28 BW, 1720 MCF
 After W/O - 10 BO, 35 Bw, 482 MCF
 4-6/56 Clean out 3,845' to TD. PB w/pea gravel & lead wool to 3,834'. Acidize w/1000 gal 15%. Frac w/20,000 gal & 20,000#.
 Before W/O - 3 BO, 32 BW, 7 MCF
 After W/O - 47 BO, 0 BW, 469 MCF
 3/65 Clean out 3768-3816'. Run 4 1/2" liner 3802-3576'. Cmt w/100 sx in 2 stgs. Clean out to 3802'. Perf 3644-3768'. Acidize w/2000 gal & 24 BS. Frac w/40,000 gal & 40,000# 20/40.
 Pmp 30 BO, 0 BW, 26 MCF
 Early 80's Lot of pulling jobs. Iron sulfide & calcium carbonate is noted in Tritolite analysis.
 12/1/88 Well SI
 9/93 TA. Set CIBP @ 3,570' & cap w/40' cmt
 12/94 Perf @ 300' & circ cmt up annulus. Cut csg 3' below GL & P&A
 9/01 Drl out plugs to 3,542' & complete in Yates.

7 5/8" @ 1,532'
w/200 sx Cmt

10" @ 309'
w/175 sx Cmt

TOC est 2,778' by Log

SELECT PERFS: 20 Holes
 3128, 42, 50, 72, 80, 3204, 28,
 42, 57, 76, 89, 3305, 3408, 30,
 71, 76, 83, 3509, 17'

CIBP @ 3,570' in 9/93 cap w/cmt
 DO to 3,542' in 9/01

Perf 3644, 60, 81, 92, 97, 3705, 12, 29, 40, 53, 60, 68' } Queen Sand

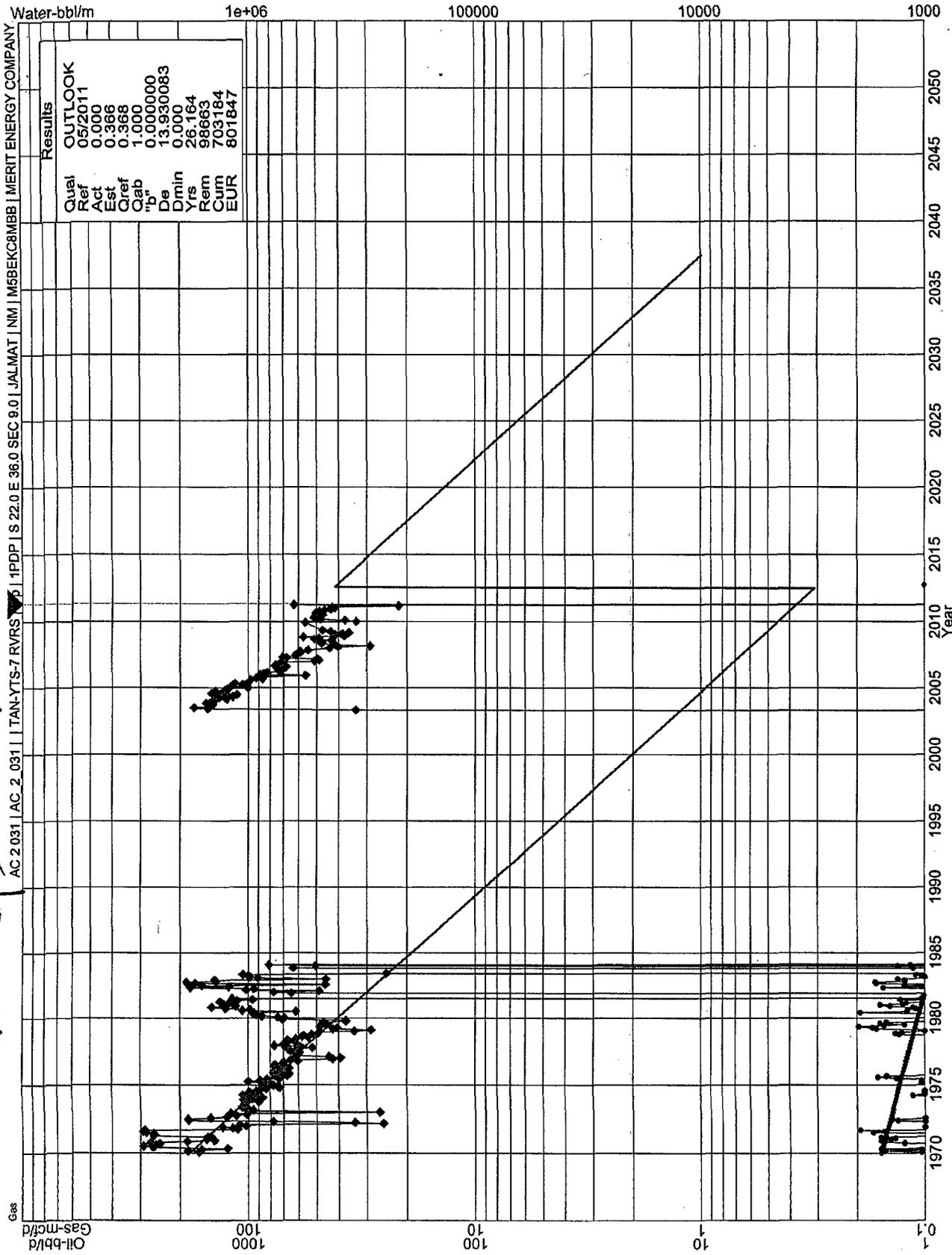
5 1/2" @ 3,714' w/200 sx Cmt
 4 1/2" liner 3576-3802'

PBTD 3,834'
TD 3,845'

Est here here
1899D
30MCFD

Current here
50MCFD

QUEEN
7 TRKS - YARS



OIL 100% QUEEN
GAS 50% QUEEN
50% TRKS - YARS

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

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 Revised 1-1-89

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
 All Distances must be from the outer boundaries of the section

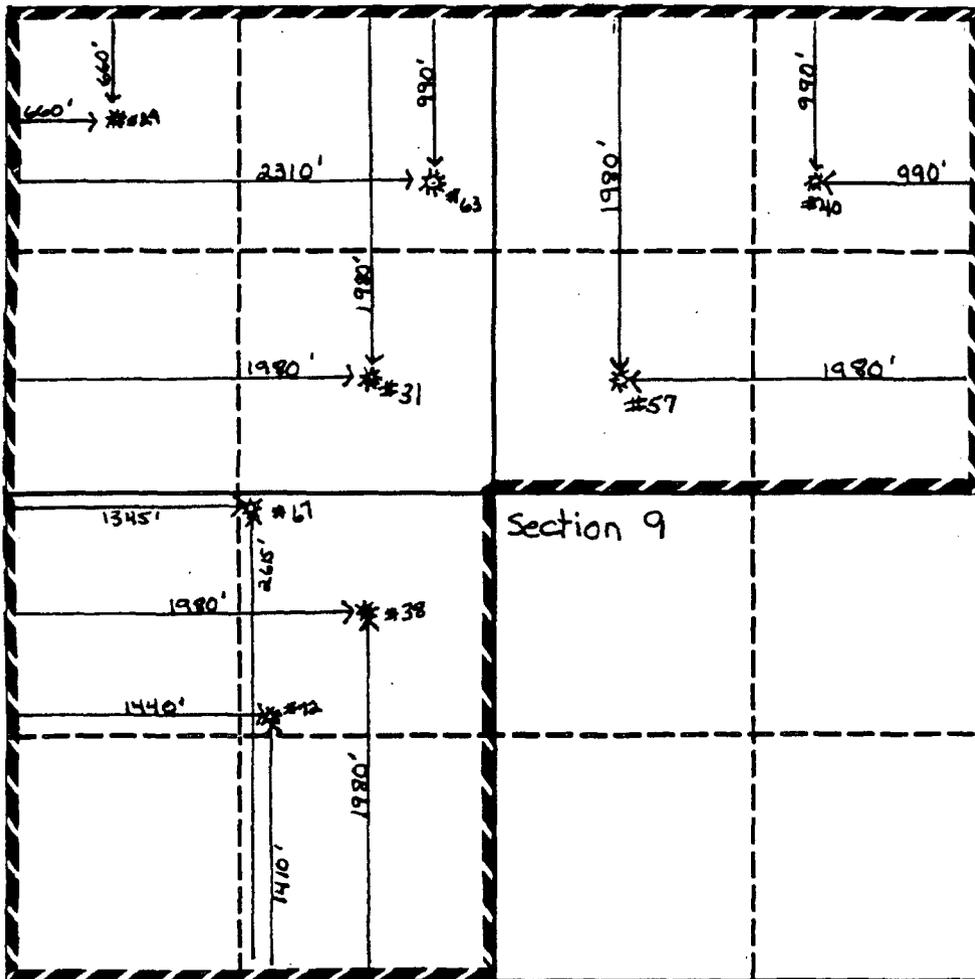
Operator Clayton Williams Energy, Inc.			Lease State A AC 2		Well No. 31
Unit Letter F	Section 9	Township 22S	Range 36E	County NMPM	Lea
Actual Footage Location of Well:					
1980 feet from the North line and		1980 feet from the West line			
Ground level Elev. DF - 3573'	Producing Formation Yates		Pool Jalmat Tansill Yates 7 Rvrs	Dedicated Acreage: 480 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

Yes No If answer is "yes" type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Robin S. McCarley

Printed Name
 Robin S. McCarley

Position
 Production Analyst

Company
 Clayton Williams Energy, Inc.

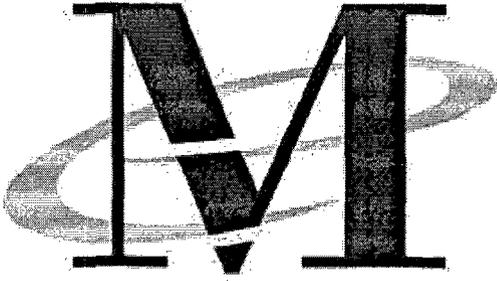
Date
 08/24/93

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 knowledge and belief.

Date Surveyed

Signature & Seal of Professional Surveyor

Certificate No.



*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**

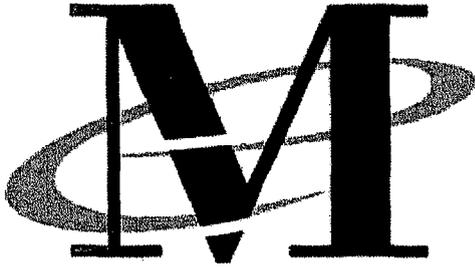
Merit Energy Company has requested approval to commingle the Queen formation (Langlie Mattix Pool) with the Tansill-Yates-Seven Rivers formation (Jalmat Pool).

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