1 . •					DIGW
11.8/1 EN BTA	SUSPENSE	ENGINEER DILB	LOGGED IN 3,16,//	TYPE	APP NO 1107542234
				11919	•
				7 4 70 7	

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505 Merit Engurgy
14591

State A A/C 2 # 5-4

CKLIST 30-025-08841

		ADMINISTRATIVE AP	PLICATION CHECKLIST	30-025-088
Т	HIS CHECKLIST IS N		LICATIONS FOR EXCEPTIONS TO DIVISION RULES A	IND REGULATIONS
Applic	[DHC-Dow [PC-Po	s: ndard Location] [NSP-Non-Standa nhole Commingling] [CTB-Lease ol Commingling] [OLS - Off-Lease [WFX-Waterflood Expansion] [P [SWD-Salt Water Disposal]	at the Division Level in Santa Fe rd Proration Unit] [SD-Simultaneous Ded e Commingling] [PLC-Pool/Lease Comm se Storage] [OLM-Off-Lease Measurem MX-Pressure Maintenance Expansion] [IPI-Injection Pressure Increase] ification] [PPR-Positive Production Res	ningling] ent]
[1]	TYPE OF AF	PPLICATION - Check Those Whic Location - Spacing Unit - Simulta NSL NSP SD		
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measure DHC CTB PLC		
	[C]	Injection - Disposal - Pressure Inc WFX PMX SW	crease - Enhanced Oil Recovery D	
	[D]	Other: Specify		
[2]	NOTIFICAT	ION REQUIRED TO: - Check Th Working, Royalty or Overrid	ose Which Apply, or Does Not Apply ing Royalty Interest Owners	
	[B]	MA Offset Operators, Leaseholde	ers or Surface Owner	
	[C]	NA Application is One Which Re	equires Published Legal Notice	
	[D]	Notification and/or Concurre U.S. Bureau of Land Management - Commis	nt Approval by BLM or SLO sioner of Public Lands, State Land Office	
	[E]	NA For all of the above, Proof of	Notification or Publication is Attached, an	ıd/or,
	[F]	NA Waivers are Attached		
[3]		CURATE AND COMPLETE INF TION INDICATED ABOVE.	FORMATION REQUIRED TO PROCE	SS THE TYPE
	al is accurate at		rmation submitted with this application for ledge. I also understand that no action will are submitted to the Division.	
	Note:	Statement must be completed by an indi-	vidual with managerial and/or supervisory capacit	y.
	e Moon	Lyn Moo	Regulatory Manager	03/02/2011
Print or	r Type Name	Signature	Title	Date
			lynne.moon@meritenergy.	. COM

<u>District</u> I

1625 N. French Drive, Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District IV

District III
1000 Rio Brazos Road, Aziec, NM 87410

1220 S. St. Francis Dr., Santa Fc, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

1220 South St. Francis Dr.

Form C-107A Revised June 10, 2003

Oil Conservation Division

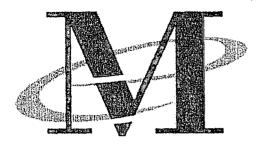
Santa Fe, New Mexico 87505

APPLICATION TYPE X Single Well Establish Pre-Approved Pools

APPLICATION, FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE X Yes ___No

Merit Energy Company		13727 Noel Rd. Suite 500 Dallas, Texas 75240								
Operator State A A/C 2	54 O-08-2	Address 2S-36E	- 4363 Lea							
Lease		r-Section-Township-Range	County							
OGRID No. 14591 Property C	ode 24671 API No. 30-0	025-08841 Lease Type:	FederalXStateFee							
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE							
Pool Name	Jalmat Tansill Yates 7-Rivers	Jalmat Tansill Yates 7-Rivers								
Pool Code	79240		24130							
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3480' - 3666'		3781' - 3863'							
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	Shut-In		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	Date:	Date:	Date:							
estimates and supporting data.)	Rates:20 MCFD; 80 BWPD	Rates:	Rates: 10 BOPD; 20 MCFD; 60 B							
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas							
than current or past production, supporting data or explanation will be required.)	% 50 %	% %	100 % 50 %							
	ADDITIO	NAL DATA								
Are all working, royalty and overriding If not, have all working, royalty and over			Yes X No Yes No							
Are all produced fluids from all comm	ingled zones compatible with each of	other?	Yes X No							
Will commingling decrease the value of	of production?		YesNoX_							
If this well is on, or communitized with or the United States Bureau of Land M			YesX_ No							
NMOCD Reference Case No. applicab	le to this well:									
Production curve for each zone for For zones with no production histo Data to support allocation method Notification list of working, royalt	gled showing its spacing unit and act at least one year. (If not available, ory, estimated production rates and sor formula. The sy and overriding royalty interests for documents required to support com-	attach explanation.) supporting data. or uncommon interest cases.								
	PRE-APPRO	OVED POOLS								
If application is	s to establish Pre-Approved Pools, t	the following additional information w	vill be required:							
List of other orders approving downho List of all operators within the propose Proof that all operators within the prop Bottomhole pressure data.	d Pre-Approved Pools									
I hereby certify that the information	above is true and complete to t	he best of my knowledge and belie	rf.							
SIGNATURE PAR P	NOOT_TITLE_R	Regulatory Manager	_DATE_03/04/2011							
TYPE OR PRINT NAME Lynne M		TELEPHONE NO. () (972)628-1569							
E-MAIL ADDRESS lynne.moor	n@meritenergy.com									



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

Date:

March 22, 2011

To:

New Mexico Oil Conservation Division

Attention:

William V Jones P.E.

RE.

Jalmat Field: 8 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).

Each of these wells that we are asking to commingle do have "identically owned" (working/royalty/orri) interest from the surface to the base of the Queen formation.

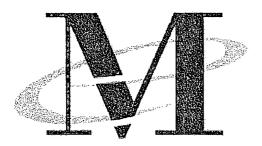
Please let me know if you have any questions

Sincerely,

Matt Van Eaton Associate Landman

matt.vaneaton@meritenergy.com

Phone: 972-628-1557 Fax: 972-628-1885



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

Date:

March 22, 2011

To:

New Mexico Oil Conservation Division

Attention:

William V Jones P.E.

RE.

Jalmat Field: 8 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 8 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 <u>brett.keener@meritenergy.com</u> Phone: 972-628-1592

Fax: 972-682-1892

DISTRICT T 1625 N. French Dr., Hobbs, NM 68240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

EXHIBIT 20

☐ AMENDED REPORT

2040 South Pacheco, Santa Fe, NM 87506 WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-08841	Pool Code 79240	JALMAT: TANSILL-YAT	Name ES-7RIVERS:(GAS)	
Property Code		Property Name STATE A A/C 2		
OGRID No. 194849	Ope PETROHAWK OPERAT	rator Name CING COMPANY	Elevation 3596	

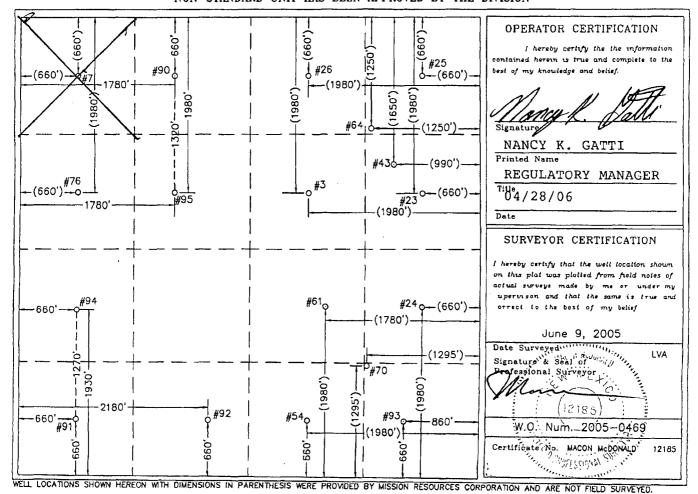
Surface Location

UL or lot N	. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1 0	8	22 S	36 E		660	SOUTH	1980	EAST	LEA

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
SAME									
Dedicated Acres	Joint o	r Infill Co	nsolidation C	ode Ord	ier No.				
600	INF	ILL			5D.	06-13			

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



HEW MEXICO OIL CONSERVATION COMMISSION Reviewd 5/1-57 WELL LOCATION AND ACREAGE DEDICATION PLAT from 150 4 SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE SECTION A Lease Operator Texas Pacific Coal & Oil Co. "A" Account No. 2 Range Township Section Unit Letter Covery 0 8 22 South 36 East Lea Actual Footage Location of Veil: 660 feet from the line and 1980 feet from the Fast South Ground Level Elev bediented Acrenge 3601.1 Acres 35891 1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES who has the right to dritt into and to produce from any pool and to appropriate the production either for himself or for himself and another (65-3-29 (e) NMSA 1935 Comp.) 2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or pube;-3. If the answer to question two is "no," list all the owners and their respective interests below. Owner Land Description SECTION B CERTIFICATION I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and ser of Pr forms Pacific Ceal & Cil Co. Pobrusry 2, 1961 I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes of actual surveys made by me or under my Date 1980 Contificate No 330 660 990 1320 1660 1980 2310 2640 2000 1500 500 1000 N. M. - P.E. & L.S. NO. 676

すりれ



Lease & Well No. State A A/C 2 # 54

Wellbore Diagram

Status Active

		<u>Field Name</u>	Jalmat			County & St	1									
<u>Location</u> 660' FSL 1980' FEL; Unit O, Sec. 08, T22S, R36E								API	No. 30-025-08841							
		-						Pool Na	me .	lalmat: T	ansill \	ates S	Seven Rivers			
													-			
Well Informa	ation								্ৰ উয়া	KMCSE	MS		1			
Spud:	2/12/61	_	d Elevation:			D.F. Elevation:										
Completed:		_ K	B Elevation:		_	Total Depth:				1 1	ŀ					
										1 1	ı					
Pipe Data										1 1						
Surface										1 1						
Hole size	Depth	Size (OD)	Weight	Grade	Sx. Cmt	Comments				1 1						
	299 ft	9-5/8"			300 sx	_				1 1			OCD Tops (MD)		
Production		-								1 1	ı		Tansill	2,967'		
Hole size	Depth	Size (OD)	Weight	Grade	5x. Cmt	Comments		4		1 1			Yates	3,153'		
	3781 ft	7"											7 Rivers	3,357'		
										1 1			Queen	3,711'		
										1 1			San Andres			
Downhole Tu	ıbulars (Top to Btt	m):								1 1	i.		Glorieta			
114 jts 2 3/8"	-									1 1	į		Bone Spring			
144-3/4" rods, 2	" x 1 1/2" x RWTC									1 1			Bone SS			
										1 1			Abo			
										1 1			Wolfcamp			
Well History										1 1			Strawn			
2/28/1961	Stimulate Quee	n formation w/20	0000 gals leas	e oil 500# Ado	nite and 20,000)# Sand			i	1 1			Atoka			
	IP: 338 BOPD,	112 BWPD with	420# ftp						>	1 1	ĺ		,			
4/11/1984	Pump Scale sq	ueeze								1 1						
8/17/1999	Set CIBP @ 37	60' w/10' Cemen	t / Perf 7 Rive	rs: w/2 spf 348	0,82,84, 96, 98	3, 3501, 30, 32, 34,	60, 62, 80, 82			1 1						
	3628, 30, 60, 62	2, 64, 66 // Acidiz	ze and Frac //	IP: 156 MCFD					ł	1 1						
12/2/1999	Replace Pump								1							
1/27/2000	Replace Pump	/ Lwr tubing - tag	@ 3617' / rui	bomb												
	Several W/O to	replace pump ar	nd tbg and roo	ls												
2/24/2003	MJ full of iron s	ulfide														
8/21/2003	RIH w/sand bai	ler from 3660-37	10'													
										1						
				,						1						
15.00	Procedures 🛠								Į	1						
Collect Oil & W	tr Samples Submi	t to X-Chem / MI	RU W/O Rig. I	RU H2S Equipm	ent - Pre-job sft	y mtg / Disc Pwr su	pply Lock/out Tag	g/out								
ND HH; RU Roc	l Equipment; Uns	eat Pump and TO	H with Rods /	ND WH, NU BO	Ps and Test / R	ack Back Tubing				1 1						
NU 6 1/8" Vare	Bit, 6 DCs, Tally	Γbg in Hole, Tag C	CIBP or Fill / RU	J Air Foam Uni	w/Mist Pump /	/ Spot 500 bbl frac t	ank and fill w/2%	KCL	. 1							
RU Flowlines fr	om each csg port	to gas buster tan	k Eliminate ex	cessive bends o	or 90's - sand wi	ill cut out valves and	l flowlines		ı							
Circ well w/Air	& Mist Pump to 3	760'/ Tag CIBP / I	DO CIBP / Coll	ect samples (sa	nd, paraffin, sca	ale) CK returns for C	&G Kill tbg w/2%	KCL ,			-					
RIH to 3863' (N	ote: may have to	trip out and lay d	lown bit-RIH O	pen ended) / C	O Fill; Cir well w	vith Air for minimun	n 2 hrs									
Rack back tubir	g / NU BP, MJ, Pe	rf Sub; Seat Nipp	ole, and RIH w/	TBG w/TAC to	3750 ft			-	1		ı					
and Tbg @ 375.	60' / ND BOPs NU	Tubing Head / R	RU Rod Equipm	ent					.		١,					
PU 12' GA, 40 R	ing PA Plunger Pu	mp, On/Off Tool,	, RIH w/rods, f	S							1					
Clean Location;	RDMO W/O Rig									1	L	Tans	sill-Yates			
Production will	be commingled a	nd allocated						·	₹		F	3480)-3666			
	: Avg Production:								, I			Acid	ize and Frac			
Queen Projecte	d Production: 10	BOPD, 20 MCFD,	60 BWPD						<i>i.</i> .		1					
								-	L							
									X	CIBPX	X	CIBF	⁹ @ 3760			
1									,		1.	7 Rv	rs - Queen Oper	n Hole		
									1		-	3781	L-3863			
									. 1			Acidi	ize&Frac			