Jones, William V., EMNRD

From:	Jones, William V., EMNRD
Sent:	Friday, March 14, 2008 9:24 AM
To:	'seay04@leaco.net'
Cc:	Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Williams, Chris, EMNRD; Davidson, Florene, EMNRD; Mull, Donna, EMNRD
Subject:	Petrohawk DHC Applications: Jalmat Gas commingled with Langlie Mattix deeper oil

Hello Eddie:

This is concerning the seven applications you recently submitted on behalf of Petrohawk to downhole commingle this Jalmat gas interval (with its odd shaped spacing units) with the 40 acre oil from the Langlie Mattix Pool and the one to DHC the Jalmat Gas with the South Eunice;7Rivers Queen Pool.

I realize that almost anything has already been done at one time or another here at the OCD - but this particular commingling of Pools is (I believe) new to me, it is a big package of similar commingles, and it triggers my curiosity to see how the reservoir(s) are to be further managed by Petrohawk.

Petrohawk should have its attorney set this package of commingles to an examiner hearing in order to cover:

- 1) a summary of owners in both pools, in each well, and how correlative rights are being protected
- 2) a review of how both reservoirs are doing and how this commingling is necessary to best manage these reservoirs.

Thanks,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448

Z DATE IN	508 SUSPEN	NSE WISCORDS 3508 THC PKUROSO65	5920	15
•		ABOVE THIS LINE FOR DIVISION USE ONLY 3994		
		NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505		
·		ADMINISTRATIVE APPLICATION CHECKLIST		
т	HIS CHECKLIST IS N	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULA WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	TIONS	
Appli	[DHC-Dow [PC-Pc	is: Indard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] Inhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] Inhole Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] Infied Enhanced Oil Recovery Certification] [PPR-Positive Production Response]		
[1]	TYPE OF AI [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD		
	Check [B]	k One Only for [B] or [C] Commingling - Storage - Measurement OHC CTB PLC PC OLS OLM		
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR	2	
	[D]	Other: Specify	2008 MAR	\supset
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	100 T	
	[B]	Offset Operators, Leaseholders or Surface Owner	P	
	[C]	Application is One Which Requires Published Legal Notice		\sim
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	20	
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,		
	[F]	Waivers are Attached.		
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE ATION INDICATED ABOVE.	TYPE	
	al is accurate a	TION: I hereby certify that the information submitted with this application for administ and complete to the best of my knowledge. I also understand that no action will be taken quired information and notifications are submitted to the Division.		S
	Note	: Statement must be completed by an individual with managerial and/or supervisory capacity.		

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Natalie Krueger	Vatalie Kriege	Regulatory Analyst	3/4/08
Print or Type Name	Signature	Title	Date
		nkrueger@cimarex.com	

e-mail Address

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5215 N. O'Connor Blvd Suite 1500 Irving, TX 75039 972-401-3111 (phone) 972-443-6486 (fax)

Cimarex Energy Co. of Colorado

March 4, 2008

New Mexico Oil Conservation Division 1220 S. St. Francis Dr. Santa Fe, NM 87505 Attn: Mr. Will V. Jones

RE: Esmeralda Federal 24 No. 1 24-19S-33E Lea County, New Mexico C-107 A – Application for Downhole Commingling Administrative Checklist

Dear Mr. Jones,

Enclosed is an Administrative Application Checklist for the C-107A I sent yesterday on the proposed DHC of the Esmeralda Federal 24 No. 1 in Lea County, NM. I apologize for the lateness and odd appearance of this checklist. I actually didn't know till today that I needed to submit one.

The fedex delivery notice that I attached is a little cryptic, so I highlighted the part that pertains to this checklist. In the future, I will send copies of C-107As Certified Mail to all affected parties.

If you have any questions or need further information, please call me at 972-443-6489.

Sincerely,

Datahi

Natalie Krueger Regulatory Analyst

zfarris@cimarex.com

Natalie Krueger

From:	TrackingUpdates@fedex.com
Sent:	Tuesday, March 04, 2008 2:01 PM
То:	Natalie Krueger
Subject:	FedEx Shipment 792015631260 Delivered

This tracking update has been requested by:

Company Name:	Cimarex Energy Co.
Name:	Natalie Krueger
E-mail:	nkrueger@cimarex.com
Message:	NOT DHC, C107A, SR RE Esmer 24 1, SR Add Perfs Grynb 11 3, 31604 & SR RC Mesc 30 2 BS, 31604 Bear Bryant Sdtrk

Our records: Indicate that the following shipment has been delivered:

Ship (P/U) date:	Mar 3, 2008
Delivery date:	Mar 4, 2008 12:56 PM
Sign for by:	M. POWELL
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Priority Overnight
Packaging type:	FedEx Pak
Number of pieces:	ï
Weight:	1.00 lb.
Special handling/Services:	Deliver Weekday
Tracking number: 792015631	260
Shipper Information	Recipient Information
Natalie Krueger	Betty Hill.
Cimarex Energy Co.	Bureau of Land Managem
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Cimarex Energy Co.	Bureau of Land Management
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tracking results and fedex.com's terms of use, go to fedex.com.

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FedEx Ship Manager® Logout Help Prepare Shipment Ship History My Lists Reports My Profile **Your Shipment Details** Natalie Krueger From: FedEx Pak Package type: Cimarex Energy Co. give to scheduled courier at my Pickup/Drop Off: 600 East Las Colineas Blvd location Ste 1100 Weight: 1 LBS Irving, TX 75039 **Dimensions:** 0 x 0 x 0 in US **Declared value:** 0 USD 4694202723 Shipper account number: 75233647 Bill transportation to: 75233647 To: **Betty Hill** Bureau of Land Management Courtesy rate quote:* 20.939999 620 East Greene Street **Discounted variable %** Carlsbad, NM 88220 Cod amount US **Special services:** 505-234-5972 **Shipment Purpose:** Shipment type: Express 792015631260 Tracking no: Commercial/Residential Status: Commercial Ship date: Mar 03 2008 Service type: **Priority Overnight** Return to History

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RECEIVED

2008 MAR 4 PM 12 30

5215 N. O'Connor Blvd Suite 1500 Irving, TX 75039 972-401-3111 (phone) 972-443-6486 (fax)

Cimarex Energy Co. of Colorado

March 3, 2008

New Mexico Oil Conservation Division 1220 S. St. Francis Dr. Santa Fe, NM 87505 Attn: Mr. Will V. Jones

RE: Esmeralda Federal 24 No. 1 24-19S-33E Lea County, New Mexico C-107 A – Application for Downhole Commingling

Dear Mr. Jones,

Enclosed is an original Form C-107-A (Application for Downhole Commingling) for the well mentioned above.

The Esmeralda Federal 24 No. 1 was drilled by Matador. Surface and intermediate casing were set and then, in 09-98, the well was plugged. In 02-08, Cimarex re-entered the well, logged, and set production casing to 13118.' Our geologist's analysis of the logs indicates 2 possible pay intervals: *Gem; Strawn* from 12174'-12187' and *Tonto; Wolfcamp* from 11204'-11212.'

Cimarex would perf Strawn, frac Strawn, perform well test, set CBP over Strawn, perf Wolfcamp, acidize Wolfcamp, perform well test, remove CBP, and DHC. The 2 well tests will be used to establish production percentages for each zone.

It is anticipated that the reservoir pressure from these two zones will be compatible and the resulting volumes would not warrant a casing/tubing dual completion.

All royalty, overriding royalty, and working interest owners are identical in the two zones, and will not be harmed by a Strawn/Wolfcamp commingling.

If you have any questions or need further information, please call me at 972-443-6489.

Sincerely,

ZenoForis

zfarris@cimarex.com

Zeno Farris Mgr Operations Administration

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District I. 1625 N. French Drive, Hobbs, NM 88240

District II 1301 W. Grand Avenue, Artesia, NM 88210

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

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

APPLICATION TYPE

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

<u>X</u>Single Well Establish Pre-Approved Pools EXISTING WELLBORE

X Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

Cimarex Energy Co. of Colorado	5215 N. O'Co	nnor Blvd., Suite 1500; Irving,	TX=75039
Operator		dress	
Esmeralda Federal 24	001 K-2	24-195-33E DAS	-311
Lease		Section-Township-Range	County
			county
OGRID No. <u>162683</u> Property C	ode API No3	80-025-2793 Lease Type:	X Federal State Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
	UNVES.		UND-12
Pool Name	Tonto; Wolfcamp		Gem; Strawn
Pool Code	59500		96244
Top and Bottom of Pay Section (Perforated or Open-I-fole Interval)	11204'-11212'		12174'-12187'
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)	Within 150% of bottom perfs		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	Est 52.0°		Est 46.8°
Producing, Shut-In or New Zone	New Zone		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: To be supplied Rates:	Date: Rates:	Date: To be supplied Rates:
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	Oil Gas	Oil Gas

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	X	No	
Are all produced fluids from all commingled zones compatible with each other?	Yes	<u>X</u>	No	- <u></u>
Will commingling decrease the value of production?	Yes		No	<u>X</u>
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.				
<u>PRE-APPROVED POOLS</u>				

 Approved Pools, the following a dditional 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 con	plete to the best	of my knowledge ar	nd belief.
	(i	2			

SIGNATURE Zer	0(7	any	TITLE	Manager Operations Administration	DATE_	February 26, 2008
		р ·				

 TYPE OR PRINT NAME
 Zeno Farris
 TELEPHONE NO.
 (972) 443-6489

E-MAIL ADDRESS zfarris@cimarex.com

DISTRICT I 1625 N. Prench Dr., Hobbs, NM 68240 DISTRICT II

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1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV 1220 S. SL. Francis Dr., Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

□ AMENDED REPORT

			WELL LO	CATION	I AND ACRE	AGE DEDICATI	ON PLAT			
API	Number		i	Pool Code		<u> </u>	Pool Name			
				96244						
Property C	Code			5014	Property Na			Well N	Well Number	
OGRID No				E SMI	Operator Na		,	Eleva	tian	
16268			CIM		•	OF COLORADO	า	365		
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DISTRICT I 1825 N. Prench Dr., Habba, NM 88240 DISTRICT II

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1301 W. Grand Avenue, Ariesia, NM 88210

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

DISTRICT IV 1220 S. SL Francis Dr., Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fcc Lease - 3 Copies

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 07505

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT										
API Number				Pool Code	I	Pool Name	Pool Name			
							onto; Wolfcan	nto; Wolfcamp		
Property Code				CONC	Property N		Well Number 1			
OGRID No.			ESMERALDA FEDERAL "24" Operator Name				·····	Elevation		
162683		CIMAREX ENERGY CO. OF COLORADO				า	3654'			
Surface Location										
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
к	24	19 S	33 E		1650	SOUTH	1980	WEST	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	
Dedicated Acres	s Joint c	or Infill Co	nsolidation (L Code Or	der No.		<u> </u>	1		
40 DHC Pending										
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										
							OPERATOR CERTIFICATION			
							I hereby certify that the information contained herein is true and complete to			
							the best of my	the best of my knowledge and bellef, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a wohuntary pooling agreement or a compulsory pooling order heretofore entered by		
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							owner of such			
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							Signature	Signature Date		
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							Printed Name			
							SURVEYOR CERTIFICATION			
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	-					I hereby certify that the well location shown on this plat was plotted from field notes of				
				SURFACE LOC Lot - N32*38'3			actual surveys made by me or und		under my	
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