			<u></u>		· · · · · · · · · · · · · · · · · · ·	PTCIL	/	
DATE IN 3-23-10		SE	ENGINEER W.J.	LOGGED IN 3-23-10	TYPE DHC	APP NO. 10	08250	0593
			ABOVE	THIS LINE FOR DIVISION USE ONLY			M&22	Dulling
<b>1</b>	, <del>t</del> aj		JICTDATIVE	APPLICATIO	nn chèch	(I IST	Mam	on #94
		, , , , , , , , , , , , , , , , , , ,					30	-045-23578
	3" PM		WHICH REQUIRE PROCE	/E APPLICATIONS FOR EX SSING AT THE DIVISION L	EVEL IN SANTA FE	SION RULES A	IND REGULAT	17766
[NSL-N	Non-Star	ndard Loc		andard Proration U				$\left( \begin{array}{c} 1 \\ 1 \\ 2 \end{array} \right)$
[Di		nhole Con ol Commi		Lease Commingling] f-Lease Storage]	[PLC-Pool/Le [OLM-Off-Lease			
			terflood Expansion] D-Salt Water Dispos	[PMX-Pressure N sal] [IPI-Injection I				
(E	OR-Qua		anced Oil Recovery		PR-Positive Proc		sponse]	
[1] <b>TYPE</b>				Which Apply for [A				
	[A]	Location		imultaneous Dedicati SD	on			
	Chaok	One Only	y for [B] or [C]					
	[B]	Commi	ngling - Storage - M					
		X DF	IC 🗌 CTB 🗌	PLC PC	OLS 0	OLM		
	[C]			re Increase - Enhanc	^		• .	
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	[D] ·	Other: S	Specify		·			
[2] <b>NOTI</b>				ck Those Which App		ot Apply	,	
	[A]		orking, Royalty or O	verriding Royalty Inf	erest Owners			
	[B]	🗌 Of	fset Operators, Lease	eholders or Surface (	Owner			
	[C]	🗌 Ap	plication is One Wh	ich Requires Publish	ed Legal Notice			
	[D]	No U.S.	tification and/or Con Bureau of Land Management -	ncurrent Approval by Commissioner of Public Lands,	BLM or SLO			
	[E]	<b>F</b> o	r all of the above, Pr	oof of Notification o	r Publication is a	Attached, a	nd/or,	
	[F]	🗌 Wa	aivers 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.

PAUL C. THOMPSON Print or Type Name

Yaul C. Thomps Signature

AGENT Title

3/18/10 Date

PAULO WALSHENG. NET 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

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

District IV

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 \_X\_Single Well No Establish Pre-Approved Pools EXISTING WELLBORE \_X\_Yes \_\_\_No

## APPLICATION FOR DOWNHOLE COMMINGLING

M&G Drilling Co, o	c/o Walsh Engineering, 7415 E. N	Aain St. Farmington, 87402	
Operator		Address	· · · · · · · · · · · · · · · · · · ·
Marron	#94	F 23, T27N, R8W	San Juan
Lease	Well No.	Unit Letter-Section-Township-Range	County

OGRID No.141852\_ Property Code 1660 API No. 30 - 045 - 23578 Lease Type: X\_Federal State Fee

DATA ELEMENT	UPPER ZONE		INTER	MEDI	ATE ZON	E	Ι	LOWER ZONE	
Pool Name	Basin Fruitland Coal							Otero Chacra	
Pool Code	71629							82329	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	1998 - 2123							3084 - 3120	
Method of Production (Flowing or Artificial Lift)	Flowing							Flowing	
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							250 psi	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	NA							1197	
Producing, Shut-In or New Zone	New Zone							Producing	
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: Not Completed Rates:		Date: Rates:					1/1/2010 20 MCFD	
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.)	%	%		%		%		%	0/

## ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes Yes		No No
Are all produced fluids from all commingled zones compatible with each other?	Yes	X	No
Will commingling decrease the value of production?	Yes		NoX
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 Taul C. Thomas -	Agent / Engineer	DATE3/18/10
----------------------------	------------------	-------------

TYPE OR PRINT NAME Paul C. Thompson, P.E. TELEPHONE NO. (\_505\_) 327- 4892\_

E-MAIL ADDRESS \_\_\_\_paul@walsheng.net\_

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	•	All distances must be f	rom the outer houndaries of t	he Section.	· · · · · · · · · · · · · · · · · · ·
	AM C. RUS	SSELL	Leose MARRON	(NM-03605)	94
<u> </u>	Seriion 23	Texmiship 27 NORTH	Bange 8 WEST	County SAN JUAN	
/ cruzi Fictage Loca 기 등식 등			1450 (04)	imm the WEST	
	ieet from the Producing	<u>NORTH</u> line and Formation	Foc:		line Dedicates Acreager
<u>5936</u>		Chacra	Largo		160 <u>Arres</u>
1. Optline the	acreage ded	icated to the subject w	ell by colored pencil or	hachure marks on the	plat below.
2. If more that interest and		is dedicated to the wel	l, outline each and iden	tify the ownership the	ereof (both as to working
		f different ownership is 1. unitization, force-pool		ave the interests of	all owners been consoli-
Tes .	No I	f answer is "yes!" type o	f consolidation		
		ne owners and tract desc	riptions which have act	ually been consolidat	ed. (Use reverse side of
	e will be assi	gned to the well until al se)or until a non-standar			
					CERTIFICATION
			1 1 1	tained here	rtify that the information con- in is true and complete to the knowledge and belief.
			   	None None	
1950' -	 		t t	Pesition	am C. Russell
	}				
	i		i i	· · · · · · · · · · · · · · · · · · ·	pendent
	1		l I	May 7	, 1979
				shown on the notes of each under my sources is true son knowledges Date Surveyer 28 A Periotures Fr and Surveyer	pril 1979 dessional Engineer
				James	
	1923 7655	1965 2310 2(40 2000	002 CSN 2321	1	463

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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 October 15,2009 Submit one copy to appropriate District Office

AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> A	PI Number	r .		<sup>2</sup> Pool Code			<sup>3</sup> Pool Name	;		
30-	045-2357	78		71629		Basin Fruitland Coal				
<sup>4</sup> Property C	Code	B.1 8 8			<sup>5</sup> Property N	ame		" We	ll Number	
16600	)				Marron 94					
<sup>7</sup> OGRID N	No.				* Operator N	<sup>8</sup> Operator Name <sup>9</sup> Elevation				
141852	2				M&G Dril	ling		5936' GL		
	L				<sup>10</sup> Surface L	ocation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
F	23	27N	8W		1545	North	1450	West	San Juan	
		•	<sup>11</sup> Bot	tom Hole	e Location If	Different Fron	1 Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
<sup>12</sup> Dedicated Acres 3 ZO W/Z	<sup>13</sup> Joint of	r Infill <sup>14</sup> Co	onsolidation C	Code <sup>15</sup> Ore	ler No.	I				

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			<sup>17</sup> OPERATOR CERTIFICATION
	6 1		I hereby certify that the information contained herein is true and complete to the
	1 1		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
45			bottom hole location or has a right to drill this well at this location pursuant to
<u>15</u>			a contract with an owner of such a mineral or working interest, or to a
			voluntary pooling agreement or a compulsory pooling order heretofore emered
		_	by the division.
			7/18/10
= 1450	и. Э		Signature Date
			Paul C. Thompson, P.E.
			Printed Name
			10
			<sup>18</sup> 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.
			Desi oj my bellej.
			Date of Survey
		1	Signature and Scal of Professional Surveyor:
			Original Survey by James P. Lease (Cert. # 1463)
			on 4/28/79
			) UR 4/20/19
			Certificate Number

### Marron #94 Basin Fruitland Coal Otero Chacra

#### Commingling Application

#### Allocation Formula

The Otero Chacra formation was completed by William C. Russell, Operator on October 30, 1979. The well is producing from perforations from 3084' to 3120'. The current Operator, M&G Drilling Company proposes to re-complete this well bore in the Basin Fruitland Coal formation and down hole commingle the production with the existing Chacra production. The proposed Fruitland Coal perforations are from 1998 to 2123'.

Down hole commingling will prevent the drilling of an additional well bore for the Fruitland Coal well and will allow the Chacra formation to produce longer since it is only capable of marginal production.

Based on offsetting Fruitland coal wells, it is anticipated that both zones will have similar bottom hole pressures. Also, neither zone produces a significant amount of water and neither zone produces any liquid hydrocarbons. Neither zone is fluid sensitive and the fluids from the two zones are compatible.

Since the Chacra formation has been producing for many years, M&G Drilling proposes to allocate the first 20 MCFD (current production rate) to the Chacra formation with the remainder to be allocated to the Basin Fruitland Coal. The Chacra production rate will be recalculated once per year using the current decline rate of 4.76%. Please refer to the attached production graph for the Marron #94 Chacra.

MARRON - OTERO	Gas Curve: Segment 1: 5/1/1993 - Start Rate: End Rate:	Hyp Exponent: Goodness of Fit: Fit Grade:	Sconomic Limit. 12/2037 Economic Life. 336 mo Future Net Revenue: \$334,930 Present Worth: \$162,448 Rate of Returm >100 % Returm on Invest: 0.00 Payout Date: n/a Oil at Effective Date: 0 bbl Coll at Economic Limit: 0 bbl Rem Oil decline): 0 bbl	Ult Oil (Decline): 0 bbl Oil Decline at Eff Date: 0.00 % Cum Oil at Eff Date: 0.00 % Gas at Effective Date: 621 mcf Gas at Effective Date: 621 mcf Rem Gas (Decline): 114,080 mcf 	Water at Effective Date: 27 bbl Water at Economic Limit: 3,154 bbl Rem Water (Decline): 221,436 bbl Ult Water (Decline): 221,791 bbl Water Decline at Eff Date: -18.61 % Cum Water at Eff Date: 354 bbl	<ul> <li>Inj at Effective Date: 0 bbl</li> <li>Inj at Economic Limit: 0 bbl</li> <li>Rem Inj (Decline): 0 bbl</li> <li>Ult inj (Decline): 0 bbl</li> <li>Inj Decline at Eff Date: 0.00 %</li> </ul>	2016 2020
	MARRON - OTERO		20 MCFD				1996 2000 2004 2008 2012

Date: 3/18/2010 Time: 8:51 AM

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Project: c:\program files\ihs energy\powertools v9.0\projects\m&g puds.mdb

Rate/Time Graph

BU SUNDR Do not use th abandoned we	M, 87402 , R., M., or Survey Description)	GEMENT S ON WELLS drill or reenter an for such proposals.		FORM APPROVED OMB No. 1004-0135 Expires Jnovember 30, 2000 5. Lease Serial No. NMNM 03605 6. If Indian, Allottee or Tribe Name 7. If Unit or CA/Agreement, Name and/or No. 8. Well Name and No. Marron #94 9. API Well No. 30-045-23578 10. Field and Pool, or Exploratory Area Otero Chacra and Basin Ft Coal 11. County or Parish, State		
	· · · ·			San Juan County, NM		
12. CHECK A	PPROPRIATE BOX(ES) TO I	NDICATE NATURE O	F NOTICE. REPO			
TYPE OF SUBMISSION			E OF ACTION			
M&G Drilling proposes to re-co	mplete this well bore in the on. M&G Drilling has appl review.	Basin Fruitland Coal	Reclamatio Recomplete Temporarily Water Disp starting date of an measured and true BLM/BIA. Require or recompletion in nts, including reclar formation and co	y Abandon Other		
Name (Printed/Typed)		Title		Arest		
Paul C. Th	Date		Agent			
	om for the second secon			ch 18, 2010		
Approved by		E FOR FEDERAL OR ST		Date		
Conditions of approval, if any, are attached certify that the applicant holds legal or ed which would entitle the applicant to cond	uitable title to those rights in the successful operations thereon.	ubject lease vingly and willfully to m	ake to any depart diction.	tment or agency of the United States any		