AMEND DHC-659 5/22/01 7

CAULKINS OIL COMPANY

P. O. BOX 340 **BLOOMFIELD, NEW MEXICO 87413** PHONE: 505-632-1544 FAX 505-632-1471

April 30, 2001

State of New Mexico Oil Conservation Division ATTN: Mr. David Catanach 1220 S. St. Francis Drive Santa Fe, NM 87504

Re:

Administrative Approval to Downhole Commingle Breech "F" 45-M, Sec. 35-27N-6W Unit Letter D

Basin Dakota, Blanco Mesa Verde and Otero Chacra Formations

Dear Mr. Catanach:

Caulkins Oil Company requests approval to downhole commingle this well. Well is currently temporarily abandoned in Dakota – Mesa Verde formations with the Chacra producing above retrievable bridge plug. Well was previously commingled in the Dakota – Mesa Verde formations, order # DHC-659.

Please find the enclosed documents for your approval:

- A. Form C-107-A
- B. Form C-102 for each zone
- C. Production data for Dakota, Mesa Verde and Chacra zones
- D. Bottom hole pressure test for Otero Chacra

Robert I Vergue

E. Sundry notice notifying BLM of intention to commingle

If you have any questions or need more information, please contact Robert L. Verquer at (505) 632-1544.

Sincerely,

Robert L. Verquer, Superintendent

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec. NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Conto Eo NIM 07505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Conies

Certificate Number

ui, metet, iti	Santa Fe NIVI X / TIT						ree Lease - 5 Cobies	
o, Santa Fe,	NM 87505							AMENDED REPORT
	W	ELL LO	OCATIO:	N AND ACI	REAGE DEDI	CATION PL	AT	
API Numbe	er		² Pool Code	e	-	³ Pool	Name	
30-039-23638						BASIN D	AKOTA	
Code 5 Pr				5 Property	Name			⁶ Well Number
				BREECI	H "F"	45-M		
No.	* O _F				Name	⁹ Elevation		
003824 Caulkin				Caulkins Oil	Company	6577 GR		
	+-			10 Surface	Location			
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	e County
35	27N	6W		990'	North	990'	West	t Rio Arriba
•		11 B	ottom Ho	le Location	If Different Fr	om Surface		
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	e County
s ¹³ Joint o	or Infill 14 C	onsolidation	Code 15 O	l rder No.				
	API Number-039-236 Code No. 4 Section 35	Section Township 35 Code Township Township Township	Section Township Range 35 27N 6W	WELL LOCATIO	WELL LOCATION AND ACION API Number 2 Pool Code 71599	WELL LOCATION AND ACREAGE DEDI API Number -039-23638 Code Section Township Range Lot Idn Feet from the North/South line Section Township Range Lot Idn Feet from the North/South line 11 Bottom Hole Location If Different Freet from the North/South line Section Township Range Lot Idn Feet from the North/South line	WELL LOCATION AND ACREAGE DEDICATION PL API Number	WELL LOCATION AND ACREAGE DEDICATION PLAT API Number -039-23638 71599 BASIN DAKOTA Code BREECH "F" No. Caulkins Oil Company 10 Surface Location Section Township Range Lot Idn Feet from the 990' North 990' West 11 Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Feet from the East/West line Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line

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 990' true and complete to the best of my knowledge and 990' Signature Printed Name Robert L. Verquer Superintendent April 30, 2001 ¹⁸SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by my supervision, and that the same is true and correct to the best of my knowledge and belief. Date of Survey Signature and Seal of Professional Surveyor:

State of New Mexico

Form C-107-A

Energy, Minerals and Natural Resources Department

New 3-12-96

811 South First St., Artesia, NM 88210

P.O. Box 1980, hobbs, NM 88240

OIL CONSERVATION DIVISION

APPROVAL PROCESS: X Administrative Hearing

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

CAULKINS OIL COMPANY

TYPE OR PRINT NAME

2040 South Pacheco Santa Fe, New Mexico 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

P.O. BOX 340, BLOOMFIELD, NM 87413

EXISTING WELLBORE (YES)

BREECH "F"	45-M	D - SEC. 35-27N-6W	RIO ARRIBA	
LEASE	WELL NO.	UNIT LTR SEC TWP RGE.	COUNTY	
OGRID NO. <u>003824</u> Prope	erty Code <u>2460</u> API NO. <u>30-039</u>	9-23638 Federal	Spacing Unit Lease types: (check 1 or more) X	
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone	
1. Pool Name and Pool Code	OTERO CHACRA	MESA VERDE	BASIN DAKOTA	
2. Top and Bottom of Pay Section (Perforations)	4787' – 4258'	4849' – 5481'	7368' – 7582'	
3. Type of production (Oil or Gas)	Gas	Gas and Condensate	Gas and Condensate	
Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing	
5. Bottomhole Pressure Zones – Artificial Lift: Estimated Current	a. (Current) 578 psia Test date:11-7-00	a.	a.	
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original)	b. 418 surface shut-in	b. 418 surface shut-in	
Oil Gravity (° API) or Gas BTU Content	1204 BTU	1138 BTU	1138 BTU	
7. Producing or Shut-In	Producing	Temporarily Abandoned	Temporarily Abandoned	
Production Marginal? (yes or no)	Yes	Yes	Yes	
* If Shut-In, give date and oil/gas/water rates of last production	Date:	Date: July, 2000	Date: July, 2000	
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Rates:	Gas Oil Water Rates: 24 .20 1.3 MCF/D Bbl Bbl	Gas Oil Water Rates: 159 .23 .76 MCF/D Bbl Bbl	
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: March, 2001 Gas Oil Water Rates: 80 0.0 0.0 MCF/D Bbl Bbl	Date: Rates:	Date: Rates:	
8. Fixed Percentage Allocation Formula - % for each zone	Oil Gas 25 %	Oil Gas 46 % 10 %	Oil Gas 0 %	
If allocation formula is based u with supporting data and/or exp	pon something other than current or pa plaining method and providing rte proje	ast production, or is based upon some ections or other required data.	other method, submit attachments	
10. Are all working, overriding, and	d royalty interests identical in all comn	ningled zones? X	/es No	
If not, have all working, overric	ding, and royalty interests been notified	d by certified mail? XY	es No	
Have all offset operators been g	given written notice of the proposed do	ownhole commingling? X Y	es No	
11. Will cross-flow occur?	X Yes No If yes, are fluid yill the allocation formula be reliable.	ds compatible, will the formations not l X Yes No (If No, attach of	be damaged, will any cross-flowed explanation)	
12. Are all produced fluids from all	l commingled zones compatible with ea	ach other? X Yes	No	
13. Will the value of production be	decreased by commingling?	Yes X No (If Yes, attac	h explanation)	
14. If this well is on, or communitize Management has been notified	zed with, state or federal lands, either t in writing of this application.	the Commissioner of Public Lands or t X Yes No	he United States Bureau of Land	
15. NMOCD Reference Cases of R	ule 303© Exceptions: ORD	DER NO(S). <u>DHC-660, R-7981</u>		
 Production cu For zones with Data to suppo Notification li Notification li 	h zone to be commingled showing its surve for each zone for at least one year. In no production history, estimated product allocation method or formula. It is to fall offset operators. It is of working, overriding, and royalty all statements, data, or documents required.	(If not available, attach explanation.) duction rates and supporting data. interests for uncommon interest cases.		
I hereby certify that the infor	rmation above is true and comp	plete to the best of by knowled	ge and belief.	
SIGNATURE Robert 29	,	PERINTENDENT DATE AP	=	

TELEPHONE NO. (505) 632-1544

ROBERT L. VERQUER

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe NM 87505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

District										
2040 South Pache	co, Santa Fe,	NM 87505							AMENDED REPORT	
		W	ELL LO	OCATIO	N AND AC	REAGE DEDI	CATION PL	ΑT		
1	API Numbe			² Pool Code		³ Pool Name				
30	-039-236	38		71599		BASIN DAKOTA				
⁴ Property	Code				5 Property	Name			⁶ Well Number	
2460)		BREECH "F"						45-M	
⁷ OGRID	No.				8 Operato	r Name	⁹ Elevation			
00382	24	Caulkins Oil Company				6577 GR				
					10 Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	ne County	
D	35	27N	6W		990'	North	990'	Wes	t Rio Arriba	
			¹¹ B	ottom Ho	le Location	If Different Fr	om Surface	•		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	ne County	
12 Dedicated Acre	es ¹³ Joint o	or Infill 14 (Consolidation	Code 15 O	 rder No.		1		1	

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

6		¹⁷ OPERATOR CERTIFICATION
990'		I hereby certify that the information contained herein is
		true and complete to the best of my knowledge and
990'		
		Robort I Verguer
		Signature
		Printed Name Robert L. Verquer
		Title Superintendent
	-	Date April 30, 2001
		¹⁸ SURVEYOR CERTIFICATION
1	l	I hereby certify that the well location shown on this plat
		was plotted from field notes of actual surveys made by my supervision, and that the same is true and correct to
		the best of my knowledge and belief.
		Date of Survey
		Signature and Seal of Professional Surveyor:
	Į.	
	1	
		Certificate Number

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

OII CONSERVATION DIVISION 2040 South Pacheco Santa Fe NM 87505 Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Certificate Number

AMENDED REPORT

		W	ELL LO	OCATIO!	N AND ACF	REAGE DEDI	CATION PL	AT	
API Number 2 Pool Code				;		3 Pool I	Name		
30-039-23638 72319						MESA V	ERDE		
⁴ Property (Code	5 Pt			⁵ Property	Name			⁶ Well Number
2460	1		BREECH "F"				45-M		
OGRID	No.	⁸ Operator Name ⁹ El					⁹ Elevation		
00382	4	Caulkins Oil Company 6577				6577 GR			
					¹⁰ Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	ne County
D	35	27N	6W		990'	North	990'	Wes	t Rio Arriba
			¹¹ Bo	ottom Ho	le Location I	f Different Fro	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	ne County
12 Dedicated Acres	s 13 Joint o	r Infill 14 C	onsolidation	Code 15 Or	rder No.			-	
360	}								

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 990' true and complete to the best of my knowledge and 990' Robert I Verque Robert L. Verquer Printed Name Superintendent April 30, 2001 ¹⁸SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by my supervision, and that the same is true and correct to the best of my knowledge and belief. Date of Survey Signature and Seal of Professional Surveyor:

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1600 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-10
Revised October 18, 199
Instructions on bac
Submit to Appropriate District Offic
State Lease - 4 Copie
Fee Lease - 3 Copie

Signature and Seal of Professional Surveyor:

District IV		. •			Saita 1	. O, 14141	67505				_	- copic
2040 South Pache	co, Santa Fe	, NM 87505] AM	ENDED REPOR
·		_									•	
	API Numb		<u>WELL L</u>		<u> </u>	ACRE	AGE DEDI	<u>ICAT</u>	ION PLA			
	-039-236	_			l Code 329			0	TERO CE			
⁴ Property						roperty Nac	ne		I ERO CI	IACKA		⁶ Well Number
2460				BREECH "F"						į		45-M
[†] OGRID	No.				*O ₁	perator Na	ne					* Elevation
00382	4				Caulkin	s Oil Co	mpany					6577 GR
					10 Sur	face Lo	ocation					
UL or lot no.	Section	Township	Range	Lot Ide	1	I	orth/South line	Feet	from the	East/West I	ine	County
D	35	27N	6W	<u> </u>	990	<u>' </u>	North		990'	We	st	Rio Arriba
			11 B	Sottom	Hole Locat	ion If I	Different Fr	om S	urface			
UL or lot no.	Section	Township	Range	Lot lde	Feet from t	te N	orth/South line	Feet	from the	East/West I	ine	County
12 Dedicated Acre	s 13 Joint	or latitl	Consolidatio	a Code	15 Order No.	<u></u>				<u>. </u>		
990°	9								I hereby certi true and com	fy that the in plete to the b	oformation of m	TIFICATION on contained herein is by knowledge and
								- 1	Title		perinte xember	ndent - 13, 2000
									¹⁸ SUR\ ! hereby certi was plotted fi	EYOR fy that the w	CERT ell locat es of act	TIFICATION ion shown on this plat tual surveys made by is true and correct to
									the best of my		and beli	ef

LAST 12-MONTHS PRODUCTION FOR BREECH F 45-M

DAKOTA

MONTH	GAS	OIL	WATER	DAYS	GAS DPA	OIL DPA
08/99	3,123	4	1	18	174	0.222
09/99	2,299	, 2	0	14	164	0.143
10/99	5,302	1	0	31	171	0.032
11/99	5,160	12	2	30	172	0.400
12/99	4,674	10	2	31	151	0.323
01/00	4,447	12	2	30	148	0.400
02/00	4,388	7	1	29	151	0.241
03/00	4,664	8	1	30	155	0.267
04/00	4,442	10	2	30	148	0.333
05/00	4,030	6	1	31	130	0.194
06/00	3,936	3	0	29	136	0.103
07/00	3,940	4	1	31	127	0.129
	50,405	79	13		152	0.232

MESA VERDE

MONTH	GAS	OIL	WATER	DAYS	GAS DPA	OIL DPA
08/99	497	3	0	18	28	0.167
09/99	367	2	0	14	26	0.143
10/99	844	0	0	31	27	0.000
11/99	821	11	2	30	27	0.367
12/99	750	8	1	31	24	0.258
01/00	714	10	2	30	24	0.333
02/00	704	7	1	29	24	0.241
03/00	747	6	1	30	25	0.200
04/00	714	9	1	30	24	0.300
05/00	654	5	1	31	21	0.161
06/00	636	3	0	29	22	0.103
07/00	640	3	0	31	21	0.097
	8,088	67	9		24	0.198

			CHACRA			
MONTH	GAS	OIL	WATER	DAYS	GAS DPA	OIL DPA
11/00	159	0	0	2	80	0.000
12/00	3,106	0	0	30	104	0.000
01/01	1,467	0	0	31	47	0.000
02/01	2,438	0	0	27	90	0.000
	7,170	0	0		80	0.000

Company: Caulkins Oil Company

Field:

Well: Breech No. F-45-1

Engineer: Neil Tefteller

Gauge Type: Amerada

Gauge Range: 0-2700 Gauge Depth: 4720 ft

Serial No.: 55170

Tubing: 2 3/8 TO

Tubing: Casing:

TO TO

Perfs.:

Shut-in BHP

Shut-in Time 168 hrs

578 @ 4720 ft

Shut-in BHT 135 F @ 4720 ft Shut-in WHT 0 F

County:

Date:

State:

Well Type:

Shut-in WHP 509 Casing CSGP 505

[Tefteller Incorporated]

Rio Arriba

11/7/2000

Test Type: Static Gradient

Status: Shut in

File Name: 50535

Oil Level

H2O Level

New Mexico

#	MD	TVD	PRESSURE	PSI/ft
1	0	0	509.00	
2	1000	1000	523.00	0.014
3	2000	2000	536.00	0.013
4	3000	3000	551 .00	0.015
5	4000	4000	567.00	0.016
6	4320	4320	572.00	0.016
7	4520	4520	575.00	0.015
8	4720	4720	578.00	0.015

SN @ 4720'

CSGP 505 1000 2000 Caulkins Oil Company
Breech No. F-45-M
Rio Arriba County, New Mexico
FEST DATE 11/7/00
File No. 2-50535-P 3000 (feet) 4000 DEPTH Ò Ò Ö 5000 6000 7000 PRESSURE (psia) 300 700 800

UNITED STATES NMNM-03547 DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** 6. If Indian, Allottee or Tribe Name SUNDRY NOTICES AND REPORTS ON WELLS 7. Unit Agreement Name (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals) 8. Well Name and No. 1. Oil Well [] Gas Well [] Other [] **GAS WELL** BREECH "F" 45-M 9. API Well No. 2. Name of Operator: 30-039-23638-00C1 Caulkins Oil Company 3. Address of Operator: 10. Field and Pool, Exploratory Area (505) 632-1544 P.O. Box 340, Bloomfield, NM 87413 DAKOTA, MESA VERDE, CHACRA 4. Location of Well (Footage, Sec., Twp., Rge.) 11. Country or Parish, State 990' F/N 990' F/W SEC. 35-27N-6W Rio Arriba Co., New Mexico 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION [X] Notice of Intent [] Abandonment [] Change of Plans []Recompletion [] New Construction [] Plugging Back [] Non-Routine Fracturing [] Subsequent Report [] Water Shut-Off Casing Repair [] Final Abandonment Notice [] Altering Casing [] Conversion to Injection 1 Other Commingle Well [] Dispose Water 17. Describe Proposed or Completed Operations: 3-23-01 We request approval to downhole commingle this well by the following procedure. T.I.H. and latch onto retrievable bridge plug set at 4815'. T.O.H. with 2 3/8" Otero Chacra production tubing from 4720' with retrievable bridge plug. T.I.H. with 2 3/8" production tubing, clean out to PBTD with air package. Land tubing on doughnut at approximately 7560'. Oil Conservation Division Order #R-11363. Basin Dakota (71599), Mesa Verde (72319) and Otero Chacra (82329) Perforations: Dakota (7368' - 7582'), Mesa Verde (4849' - 5481') and Otero Chacra (4258' - 4787') Allocations Dakota Mesa Verde Chacra Oil 54% 46% 0% Gas 59% 10% 31% (continued on page 2

NOTE: The format is issued in lieu of U.S. BLM Form 3160-5								
18. I HEREBY CERTIFY THE FOREGOING IS TRUE	AND CORRECT							
SIGNED: Robert L. VERQUER	TITLE: <u>Superintendent</u>	DATE: March 23, 2001	41 MAIN					
APPROVED BY:CONDITIONS OF APPROVAL, IF ANY	_TITLE:	_DATE:	· · · · · · · · · · · · · · · · · · ·					

Caulkins Oil Company BLM Sundry Notice Breech "F" 45-M March 23, 2001 Page 2

Please see attached 12 month production history.

Commingling will not reduce the production value in this well.

No new surface will be disturbed, location area will be cleaned up when workover operations are completed.

Estimated starting date, as soon as rig is available.

New Mexico Oil Conservation Division has been notified of this commingling procedure.