23531177

NEW MEXICO OIL CONSERVATION DIVISION

ABOVE THIS LINE FOR DIVISION USE ONLY

- Engineering Bureau -

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Mallon Oil Company

Denver/Colorado ♦ Durango/Colorado ♦ Carlsbad/New Mexico

August 14, 2000

Mr. David Catanach OCD Engineering Division 2040 S. Pacheco Santa Fe, New Mexico 87505

Dear Mr. Catanach

1

Enclosed is Mallon Oil Company's application for approval to down hole commingle the San Jose, Nacimiento and Pictured Cliffs formations in the Jicarilla 30-03-35 No. 3 wellbore.

If any additional information is required please contact me at 970-382-9100. Thank you for your assistance in this matter.

Sincerely,

Terry Lindeman

Operations Superintendent

TGL/gd

Enclosures

Cc: Brian Davis / Bureau of Land Management
Dorothy Jacquez / Oil Conservation Division – Aztec
Thurman Velarde / Jicarilla Oil and Gas
Don Erickson / Mallon Resources
File

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

District II

District III
1000 Rio Brazos Road, Aziec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87505 APPLICATION TYPE

Form C-107A

Revised May 15, 2000

APPLICATION FOR DOWNHOLE COMMINGLING

	Single Well
Establish Pre-App	roved Pools
EXISTING V	VELLBORE
Ves	No

Mallon Oil Company		P. O. Box 2797 Durango, CO 81302	
Operator		•	
Jicarilla 30-03-35	Address 3 B	35 30N 03W	Rio Arriba
Lease		etter-Section-Township-Range	County
		30-039-26114 Lease Type:	•
1 Topes	ty Code <u>00024255</u> ATT NO	_ <u>50-059-20114</u> Lease Type:2	FederalStateFee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Cabresto Canyon; San Jose Ext.	Cabresto Canyon; Nacimiento Ext.	East Blanco; Pictured Cliffs Ext.
Pool Code	96822	96821	72400
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	1330'-1836' San Jose	2433'-2490' Nacimiento	3738'-3802' Pictured Cliffs
Method of Production (Flowing or Artificial Lift)	Flowing	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)	305 psia	640 psia	1250 psia
Oil Gravity or Gas BTU (Degree API or Gas BTU)			
Producing, Shut-In or New Zone Date and Oil/Gas/Water Rates			
of Last Production. (Note: For new zones with no production history,	Date:	Date:	Date:
applicant shall be required to attach production estimates and supporting data.)	Rates:	Rates:	Rates:
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.)	% %	% %	% %
	ADDI	TIONAL DATA	
Are all working, royalty and overrid If not, have all working, royalty and	ling royalty interests identical in a overriding royalty interest owner	all commingled zones? rs been notified by certified mail?	Yes X No Yes No
Are all produced fluids from all con	nmingled zones compatible with o	each other?	Yes <u>X</u> _No
Will commingling decrease the value	e of production?		YesNoX
or the United States Bureau of Land	Management been notified in wi		YesX No
Production curve for each zone For zones with no production hi Data to support allocation meth Notification list of working, roy	ningled showing its spacing unit a for at least one year. (If not avail istory, estimated production rates	and acreage dedication. lable, attach explanation.) and supporting data. ests for uncommon interest cases.	
	PRE-AP	PPROVED POOLS	
If application	n is to establish Pre-Approved Po	ools, the following additional information v	vill be required:
List of other orders approving down List of all operators within the prop Proof that all operators within the p Bottomhole pressure data.	osed Pre-Approved Pools	re provided notice of this application.	
I hereby certify that the informa	tion above is true and comple	te to the best of my knowledge and be	lief.
SIGNATURE	25	E Operations Superintendent	

TELEPHONE NO. (<u>970</u>) <u>382-9100</u>

Gerry G. Lindeman

TYPE OR PRINT NAME_

Mallon Oil Company

Denver/Colorado ♦ Durango/Colorado ♦ Carlsbad/New Mexico

August 14, 2000

Mr. David Catanach
OCD Engineering Division
2040 S. Pacheco
Santa Fe. New Mexico 87505

Dear Mr. Catanach

The following information is intended to be supplemental to Mallon Oil Company's application for approval to down hole commingle the San Jose, Nacimiento, and Pictured Cliffs formations in the Jicarilla 30-03-35 No. 3 wellbore.

In regards to the recent changes of Rule 303.C, the commingling of the Nacimiento, Ojo Alamo, and the Pictured Cliffs meet the criteria of section C. The San Jose should also qualify based on the high fracture pressure that has been noted field wide.

The field average bottom hole pressures are:

- 1. San Jose Formation **Average Bottom hole Pressure** @ 5600' sea level elevation is **305 psia** and the average BTU content of the gas is 1065.
- 2. Nacimiento Formation Average Bottom hole Pressure @ 4600 sea level elevation is **640 psia** and the average BTU content of the gas is 1063.
- 3. Pictured Cliffs Formation Average Bottom hole Pressure @ 3500 sea level elevation is **1250 psia** and the average BTU content of the gas is 1136.

Based on data obtained form the acid breakdowns performed on the zones in question, in the wellbore of the Jicarilla 30-03-35 No. 3, the following information will show the fracture pressures to be adequate for safely commingling all three zones.

The Pictured Cliffs Formation was perforated from 3738' to 3802' with a total of 36' of perforations. Following the acid breakdown the fracturing pressure at mid-perf calculated to be 2058psi. (0.55 psi / ft).

The **Nacimiento Formation** was perforated at 2433' – 2437', 2526' – 2531', 2538' – 2540', 2545' - 2547' with the mid-perf being 2490'. Following the acid breakdown the fracturing pressure at mid-perf calculated to be 1795 psi. (0.72 psi / ft).

The **San Jose Formation** was perforated at 1330' – 1352', 1359' – 1368', 1642' – 1650', 1670' - 1678', 1798' - 1806', 1828' - 1836', Mid-pef: 1583', Following the acid breakdown the lowest fracturing pressure was found at the perforations 1798' -1836' at mid-perf calculated to be 1391 psi. (0.76 psi / ft).

Flow tests on each zone were conducted for a period of time as to allow 626 -37.8 1029 - 62-2 for stabilization. These results are:

Pictured Cliffs Formation:

626 mcfd, 72 BWPD

Nacimiento Formation: San Jose Formation;

469 mcfd, 84 BWPD

560 mcfd, 12 BWPD

Total

1,655 mcfd, 168 BWPD

The allocation method that was agreed upon between Mallon Oil Company and the Jicarilla Apache Tribe is to use a percentage based on the initial test.

Pictured Cliffs Formation:

626 / 1655 = .3782 (37.82%)

Nacimiento Formation:

469 / 1655 = .2834 (28.34%)

San Jose Formation:

560 / 1655 = .3384 (33.84%)

I hope this information will help expedite the administrative approval for the commingling of the above referenced well. If you should require any additional information concerning this matter please contact me at (907) 382-9100. I appreciate the help and attention you have shown on this matter.

Sincerely,

مسمو Terry Lindernan

Operations Superintendent

DISTRICT II O.D. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Azteo, N.M. 87410

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

Instructions on back ubmit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

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DISTRICT II P.D. Drawer DD; Artesia, N.M. 88211-0719

DISTRICT III 1000 Rio Braxos Rd., Azteo, N.M. 87410

OIL CONSERVATION DIVISION

To the second

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P.O. Box 2088 Santa Fe, NM 87504-2088

☐ AMENDED REPORT

DISTRICT IV PO Box 208

Box 2088, Ban	ta Fe, NM E	:	VELL L	OCATION	N AND AC	REAGE DEDI	CATION P	LAT	
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00024					JICARILLA				3
O13925	•				*Operator				Elevation 7325
					¹⁰ Surface	Location			
UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
B	. 35	30-N	3-W		469'	NORTH	2159'	EAST	RIO ARRIBA
	*	<u>.</u>	11 Botto	om Hole	Location I	f Different Fro	om Surface		
UL or lat no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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DISTRICT H P.O. Drawer DD, Artesia, N.M. 88211-0719

P.O. Drawer DD, Artema, N.M. 88211-0719

1000 Rio Braxos Rd., Azteo, N.M. 87410

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OIL CONSERVATION DIVISION

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-2611		Pool Code Pool Name 96822 Cabresto Canyon; San Jose Ext.								
⁴ Property Code 00024235		Property Name JICARILLA 30-3-35								
*OGRID No. 013925				*Operator			•	Elevation 7325		
	: i			¹⁰ Surface	Location					
L or lot no. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		

RIO ARRIBA 30-N 469' **NORTH** 2159' **EAST** 35 B 11 Bottom Hole Location If Different From Surface North/South line Feet from the Feet from the East/West line UL or lot no. Beatlen Township Lot Idn County Range Dedicated Acres 14 Consolidation Code is Joint or Infill 18 Order No. 160

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

STONE	N 89-41-10	E 5202.50'	SER ALL ROVED DI	FD. MARKED STONE
16		-569	2159'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and beliaf
			1316*	
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				Signature
			.g.	Terrance G. Lindeman Printed Name Operations Superintenden
3.5			* \$228	December 21, 1998
				18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field noise of actual surveys made by me
			8 z	or under my supervision, and that the same is brue and correct to the best of the helia.
				Date of System
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