

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

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

District III  
1067 Rio Brazos Road, Aztec, NM 87410

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised May 15, 2000

**Oil Conservation Division**

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

APPLICATION TYPE

Single Well

Establish Pre-Approved Pools

EXISTING WELLBORE

X Yes No

OIL CONSERVATION  
DIVISION

**APPLICATION FOR DOWNHOLE COMMINGLING**

Caulkins Oil Company

1409 W. Aztec, Blvd., Suite B7, Aztec NM 87410

Operator

Address

BREECH

307-M

UNIT O - SEC. 13-26N-7W

Rio Arriba

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 003824 Property Code 2454 API No. 30-039-23143 Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Santa Blanco Pictured Cliffs	Otero Chacra	Mesa Verde	Basin Dakota
Pool Code	72439	82329	72319	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2281' - 2362'	3231' - 3323'	4534' - 4756'	6652' - 6818'
Method of Production (Flowing or Artificial Lift)	Flowing	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)	N/A	N/A	N/A	N/A
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1177	1177	1219	1219
Producing, Shut-In or New Zone	Producing	Producing	Producing	Producing
Date and Oil/Gas/Water Rates of Last Production.	Date: 12 month average	Date: 12 month average	Date: 12 month average	Date: 12 month average
(Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Rate: Gas Oil Water 47 0 0 MCF/D Bbl Bbl	Rate: Gas Oil Water 20 0 0 MCF/D Bbl Bbl	Rate: Gas Oil Water 36 .367 .065 MCF/D Bbl Bbl	Rate: Gas Oil Water 121 .357 .065 MCF/D Bbl Bbl
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Gas Oil 21 % 0 %	Gas Oil 9 % 0 %	Gas Oil 16 % 50 %	Gas Oil 54 % 50 %

**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 X No  
Yes No

Are all produced fluids from all commingled zones compatible with each other?

Yes X No

Will commingling decrease the value of production?

Yes No X

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 No

NMOCD Reference Case No. applicable to this well: DHC-2031

**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 Robert L. Verquer TITLE Superintendent DATE June 14, 2005  
TYPE OR PRINT NAME Robert L. Verquer TELEPHONE NO. (505) 334-4323

**LAST 12-MONTHS PRODUCTION  
FOR  
BREECH 307-M**

**DAKOTA**

MONTH	GAS	OIL	WATER	DAYS	GAS DPA	OIL DPA
05/04	4,133	14	2	31	128	0.452
06/04	3,823	10	2	30	122	0.333
07/04	4,103	10	2	31	127	0.323
08/04	3,958	12	2	31	122	0.387
09/04	3,430	6	1	27	122	0.222
10/04	4,573	11	2	31	142	0.355
11/04	3,863	11	2	30	123	0.367
12/04	3,563	8	1	29	118	0.276
01/05	3,883	14	2	31	120	0.452
02/05	3,529	12	2	28	121	0.429
03/05	3,143	10	2	31	96	0.323
04/05	3,457	11	2	30	110	0.367
	<b>45,458</b>	<b>129</b>	<b>22</b>		<b>121</b>	<b>0.357</b>

**MESA VERDE**

MONTH	GAS	OIL	WATER	DAYS	GAS DPA	OIL DPA
05/04	1,268	14	2	31	38	0.452
06/04	1,174	10	2	30	36	0.333
07/04	1,259	10	2	31	38	0.323
08/04	1,216	12	2	31	37	0.387
09/04	1,053	6	1	27	36	0.222
10/04	1,399	11	2	31	42	0.355
11/04	1,186	11	2	30	37	0.367
12/04	1,095	8	1	29	35	0.276
01/05	1,193	14	2	31	36	0.452
02/05	1,084	12	2	28	36	0.429
03/05	972	10	2	31	29	0.323
04/05	1,065	11	2	30	33	0.367
	<b>13,964</b>	<b>129</b>	<b>22</b>		<b>36</b>	<b>0.357</b>

**OTERO CHACRA**

MONTH	GAS	OIL	WATER	DAYS	GAS DPA	OIL DPA
05/04	784	0	0	31	24	0.000
06/04	718	0	0	30	23	0.000
07/04	705	0	0	31	21	0.000
08/04	692	0	0	31	21	0.000
09/04	531	0	0	25	20	0.000
10/04	703	0	0	31	21	0.000
11/04	642	0	0	30	20	0.000
12/04	657	0	0	29	21	0.000
01/05	708	0	0	31	22	0.000
02/05	645	0	0	28	22	0.000
03/05	520	0	0	31	15	0.000
04/05	430	0	0	30	13	0.000
	<b>7,735</b>	<b>0</b>	<b>0</b>		<b>20</b>	<b>0.000</b>

**PICTURED CLIFFS**

MONTH	GAS	OIL	WATER	DAYS	GAS DPA	OIL DPA
05/04	1,856	0	0	31	56	0.000
06/04	1,702	0	0	30	53	0.000
07/04	1,673	0	0	31	50	0.000
08/04	1,641	0	0	31	49	0.000
09/04	1,261	0	0	25	46	0.000
10/04	1,668	0	0	31	50	0.000
11/04	1,525	0	0	30	47	0.000
12/04	1,560	0	0	29	50	0.000
01/05	1,679	0	0	31	50	0.000
02/05	1,530	0	0	28	51	0.000
03/05	1,242	0	0	31	36	0.000
04/05	1,031	0	0	30	30	0.000
	<b>18,368</b>	<b>0</b>	<b>0</b>		<b>47</b>	<b>0.000</b>

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 &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Drive  
Santa Fe, NM 87504

Form C-102

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies



AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-039-23143</b>	<sup>2</sup> Pool Code <b>72439</b>	<sup>3</sup> Pool Name <b>PICTURED CLIFFS</b>
<sup>4</sup> Property Code <b>2454</b>	<sup>5</sup> Property Name <b>BREECH</b>	<sup>6</sup> Well Number <b>307-M</b>
<sup>7</sup> OGRID No. <b>003824</b>	<sup>8</sup> Operator Name <b>Caulkins Oil Company</b>	<sup>9</sup> Elevation <b>6164 GR</b>

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	13	26N	7W		1120'	South	1520'	East	Rio Arriba

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres <b>160</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.

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

<sup>16</sup> 	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief   Signature Printed Name <b>Robert L. Verquer</b> Title <b>Superintendent</b> Date <b>May 20, 2005</b>		
	<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 knowledge and belief. Date of Survey Signature and Seal of Professional Surveyor:		
	Certificate Number		

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2040 South Pacheco, Santa Fe, NM 87505



AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-039-23143</b>	<sup>2</sup> Pool Code <b>82329</b>	<sup>3</sup> Pool Name <b>OTERO CHACRA</b>
<sup>4</sup> Property Code <b>2454</b>	<sup>5</sup> Property Name <b>BREECH</b>	<sup>6</sup> Well Number <b>307-M</b>
<sup>7</sup> OGRID No. <b>003824</b>	<sup>8</sup> Operator Name <b>Caulkins Oil Company</b>	<sup>9</sup> Elevation <b>6164 GR</b>

<sup>10</sup> Surface Location

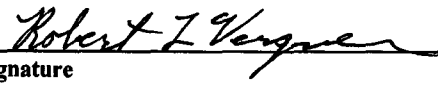
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	13	26N	7W		1120'	South	1520'	East	Rio Arriba

<sup>11</sup> 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

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	Breech 307  1140'⊙  790'		Breech 307-M 1120'	

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AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-039-23143</b>	<sup>2</sup> Pool Code <b>72319</b>	<sup>3</sup> Pool Name <b>MESA VERDE</b>
<sup>4</sup> Property Code <b>2454</b>	<sup>5</sup> Property Name <b>BREECH</b>	<sup>6</sup> Well Number <b>307-M</b>
<sup>7</sup> OGRID No. <b>003824</b>	<sup>8</sup> Operator Name <b>Caulkins Oil Company</b>	<sup>9</sup> Elevation <b>6164 GR</b>

<sup>10</sup> Surface Location


UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	13	26N	7W		1120	South	1520'	East	Rio Arriba

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.

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	Breech 307		Breech 307-M	
	1140'⊙		1120'	
	790'			
				Certificate Number

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☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-039-23143</b>	<sup>2</sup> Pool Code <b>71599</b>	<sup>3</sup> Pool Name <b>BASIN DAKOTA</b>
<sup>4</sup> Property Code <b>2454</b>	<sup>5</sup> Property Name <b>BREECH</b>	<sup>6</sup> Well Number <b>307-M</b>
<sup>7</sup> OGRID No. <b>003824</b>	<sup>8</sup> Operator Name <b>Caulkins Oil Company</b>	<sup>9</sup> Elevation <b>6164 GR</b>

<sup>10</sup> Surface Location


UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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	Breech 307		Breech 307-M	
	1140'⊙		1120'	
	790'			

NEW MEXICO OIL CONSERVATION DIVISION  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners  
 [B] ☐ Offset Operators, Leaseholders or Surface Owner  
 [C] ☐ Application is One Which Requires Published Legal Notice  
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,  
 [F] ☐ Waivers 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.

Print or Type Name \_\_\_\_\_ Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 e-mail Address \_\_\_\_\_