

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work <b>DRILL</b>		5. Lease Number <b>NM-03733</b>	
1b. Type of Well <b>GAS</b>		6. If Indian, Name of Allottee or Tribe	
2. Operator <b>CAULKINS OIL COMPANY 3824</b>		7. Unit Agreement Name	
3. Address & Phone No. of Operator <b>c/o ROBERT VERQUER P. O. Box 340, Bloomfield, NM 87413 (505) 632-1544</b>		8. Farm or Lease Name <b>2454 BREECH #377</b>	
		9. Well Number <b>377 30-039-25690</b>	
4. Location of Well <b>1165' FSL &amp; 1025' FWL</b>		10. Filed, Pool, or Wildcat <b>5 Blanco R/Otero Chaco / 82329 72319 5666000 / Basin R 71599 Dakota Mesa Verde, Chaco, Notated Off</b>	
		11. Section, Township, & Range, Meridian, or Block <b>M 23/26N/7W</b>	
14. Distance in Miles from Nearest Town <b>30 miles southeast of Blanco, NM Post Office.</b>		12. County <b>Rio Arriba</b>	13. State <b>New Mexico</b>
15. Distance from Proposed Location To Nearest Property Line or Lease Line <b>1025'</b>	16. Acres in Lease <b>2400 Acres</b>	17. Acres Assigned to Well <b>W - 320 Acres m W 320 / W 320 DK</b>	
18. Distance From Proposed Location To Nearest Well Drill, Compl., Or Applied For on Lease <b>3165'</b>	19. Proposed Depth <b>7550'</b>	20. Rotary or Cable Tools <b>ROTARY</b>	
21. Elevations (DR, RT, GR, Etc.) <b>6917 GR</b>		22. Approximate Date Work Will Start <b>July 1, 1997</b>	
23. Proposed Casing and Cementing Program			
EXHIBITS attached as follows "A" Location and Elevation Plat "B" Ten-Point Compliance Program "C" Blowout Preventer Schematic "D" Multi-Point Requirements for APD "E" Vicinity Map - Access Roads "F" Drill Rig Layout "G" Production Facility Schematic "H" Acreage dedication plat			
24. Signed <b>Robert L. Verquer</b> Robert L. Verquer		Title <b>Superintendent</b>	Date <b>05/12/97</b>

RECEIVED  
JUN 11 1997

OIL CON. DIV.  
DIST. 3

Permit No. \_\_\_\_\_ Approval Date **JUN 05 1997**

Approved By **/S/ Duane W. Spencer** Title \_\_\_\_\_ Date **JUN - 6 1997**

NOTE: THIS FORMAT IS ISSUED IN LIEU OF U.S. BLM FORM 3160-3

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NMOOD

DISTRICT I  
P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

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

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

97 MAY 13 11:10:22

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-25690	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name Basin Dakota 71599 S. Blanco Pictured Cliffs Blanco Mesa Verde 72319 Otero Chara 82329
<sup>4</sup> Property Code 2454	<sup>5</sup> Property Name BREECH	<sup>6</sup> Well Number 377
<sup>7</sup> OGRID No. 3824	<sup>8</sup> Operator Name CAULKINS OIL COMPANY	<sup>9</sup> Elevation 6917

<sup>10</sup> Surface Location

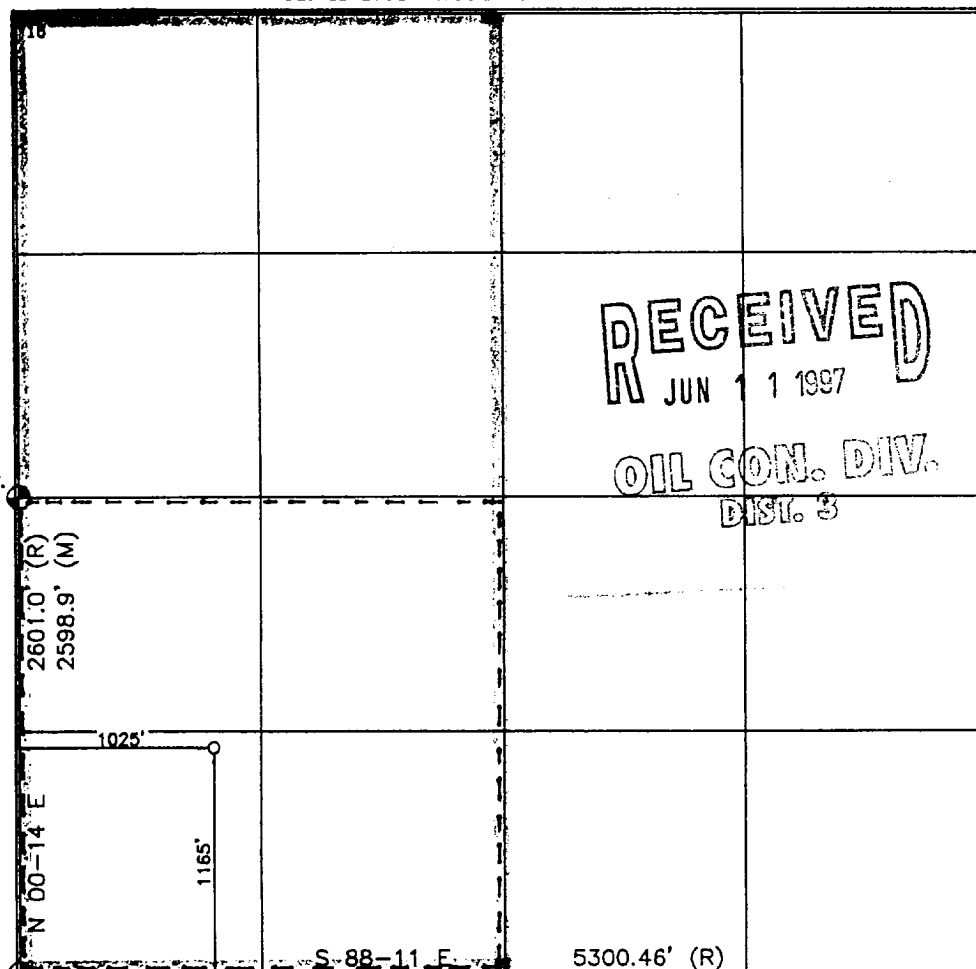
UL or lot no. M	Section 23	Township 26N	Range 7W	Lot Idn	Feet from the 1165	North/South line SOUTH	Feet from the 1025	East/West line WEST	County RIO ARRIBA
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<sup>11</sup> Bottom Hole Location If Different From Surface

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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<sup>12</sup> Dedicated Acres 320/320 160/160	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Robert L. Verquer</i> Signature Robert L. Verquer Printed Name Superintendent Title May 5, 1997 Date</p>
	<p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>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.</p> <p>APR 16 1997 Date of Survey Signature and Seal of Registered Professional Land Surveyor 8894 Certificate Number</p>

# EXHIBIT B

## TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company  
Breach #377  
1165' FSL & 1025' FWL, Sec. 23, 26N, 7W  
Rio Arriba County, New Mexico  
Lease No. NM - 03733

1. The Geological Surface Formation is : San Jose.
2. The Estimated Tops of Important Geological Markers:

Ojo Alamo	2380
Fruitland	2935
Picture Cliffs	3045
Chara	3915
Point Lookout	5340
Greenhorn	7230
Dakota	7420
TD	7550

3. Estimated Depths and pressures of Anticipated Water, Oil, Gas or Minerals:

Substance	Formation	Depth	Pressure
Water	Alamo	2503	0
Gas	Fruitland	3038	200
Gas	Pictured Cliffs	3075	450
Gas	Chara	4027	500
Gas	Mesa Verde	5405	1000
Gas	Dakota	7525	1500

4. The proposed casing program will be as follows:

Depth	Hole Size	O.D.	Weight	Grade	Type	New/Used
0-350	12-1/4	9-5/8	36#	J55	LT&C	NEW
0-1000	7-7/8	5-1/2	17#	K55	LT&C	NEW
1000-6550	7-7/8	5-1/2	15.5#	K55	LT&C	NEW
6550-7550	7-7/8	5-1/2	17#	K55	LT&C	NEW

The proposed cement program will be as follows:

**Surface:** 225 sacks class B with 2% CaCl  
and 1/4# per sack cellophane flake.

**PRODUCTION:** Cement will be run in three stages with  
stage tools set at approximately 3550' and 5550'.

1st stage	Cement thru shoe at approx. 7550' with 250 sacks 35/65 lite poz + 6% bentonite + 5# /sk kolite + 1/4# /sk cellophane flake followed by 100 sacks class B + 1% CaCl + 1/4# /sk cellophane flake.
2nd stage	Cement thru tool at approx. 5550' with 250 sacks 35/65 lite poz + 6% bentonite + 5# /sk kolite + 1/4# /sk cellophane flake followed by 100 sacks class B + 1% CaCl + 1/4# /sk cellophane flake.
3rd stage	Cement thru tool at approx. 3550' with 450 sacks 35/65 lite poz + 6% bentonite + 5# /sk kolite + 1/4# /sk cellophane flake followed by 100 sacks class B + 1% CaCl + 1/4# /sk cellophane flake.

NOTE: Cement volume will be based on information from  
open hole logs and will be calculated TD to surface  
plus 10%.

