

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL		5. Lease Number NM-03381	
1b. Type of Well GAS		6. If Indian, Name of Allottee or Tribe	
2. Operator CAULKINS OIL COMPANY		7. Unit Agreement Name	
3. Address & Phone No. of Operator c/o ROBERT VERQUER P. O. Box 340, Bloomfield, NM 87413 (505) 632-1544		8. Farm or Lease Name BREECH "B"	
4. Location of Well 1800 FSL & 1150' FWL		9. Well Number 30-039-25839	
14. Distance in Miles from Nearest Town 30 miles southeast of Blanco, NM Post Office.		10. Filed, Pool, or Wildcat Basin Dakota - Blanco Mesa Verde	
15. Distance from Proposed Location To Nearest Property Line or Lease Line 1490'		11. Section, Township, & Range, Meridian, or Block L 14-26N-7W	
16. Acres in Lease 1120 Acres		12. County Rio Arriba	
17. Acres Assigned to Well SW - 160 Acres		13. State New Mexico	
18. Distance From Proposed Location To Nearest Well Drill, Compl., Or Applied For on Lease 190'		19. Proposed Depth 6830'	
20. Rotary or Cable Tools ROTARY		21. Elevations (DR, RT, GR, Etc.) 6124 GR	
22. Proposed Casing and Cementing Program		Approximate Date Work Will Start May 1, 1998	

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

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

- "F" Drill Rig Layout
- "G" Production Facility Schematic
- "H" Acreage dedication plat
- "I" Archaeological Report

24. Signed Robert L. Verquer Title Superintendent Date 02/20/98

Permit No. _____ Approval Date APR 22 1998
Approved By /s/ Duane W. Spencer Title _____ Date APR 22 1998

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

1R-10964 @

NMOC

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

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

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

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

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

OIL CONSERVATION DIVISION

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-25839	Pool Code 72319/41599	Pool Name Blanco M / Basin Dakota
Property Code 2456	Property Name BREECH B	Well Number 781
GRID No. 3824	Operator Name CAULKINS OIL CO.	Elevation 6124'

10 Surface Location

UL or lot no. L	Section 14	Township 26-N	Range 7-W	Lot Idn	Feet from the 1800	North/South line SOUTH	Feet from the 1150	East/West line WEST	County SAN JUAN
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11 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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Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No. R-10964
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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

18	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Robert L. Verquer Printed Name Robert L. Verquer Title Superintendent Date February 20, 1998
18 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. Date of Survey 10-1-98 Signature and Seal of Professional Surveyor ROY A. RUSH 8894 Certificate Number 8894	

EXHIBIT "B"

EXHIBIT "B"

TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company
 Breech "B" 781
 1800' FSL & 1150' FWL, Sec. 14, 26N, 7W
 Rio Arriba County, New Mexico
 Lease No. NM - 03381

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

Ojo Alamo	1542
Fruitland	2061
Picture Cliffs	2282
Chacra	3173
Point Lookout	4568
Greenhorn	6504
Dakota	6654
TD	6830

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

Substance	Formation	Depth	Pressure
Water	Alamo	1632	0
Gas	Fruitland	2276	200
Gas	Pictured Cliffs	2350	450
Gas	Chara	3273	500
Gas	Mesa Verde	4808	1000
Gas	Dakota	6800	1500

- 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
1000-6830	7-7/8	5-1/2	15.5#	K55	LT&C	NEW
5830-6830	7-7/8	5-1/2	17#	K55	LT&C	NEW

The proposed cement program will be as follows:

Surface: 154 sacks class H with 1% CaCl
 and 1/4# per sack cellophane flake.

VOLUME CALCULATIONS

YIELD 1.14 350 ft x 0.3132 cu-ft/ft with 60% excess = 175 cu-ft

PRODUCTION:

Cement will be run in three stages with
 stage tools set at approximately 2830' and 4830'.

1st stage Cement through shoe at approx. 6830' with 207 sacks
 class B 35/65 poz + 6% gel [bentonite] + 1/4# /sk
 cellophane flake followed by 100 sacks class H
 + 1% CaCl + 1/4# /sk cellophane flake.

VOLUME CALCULATIONS

YIELD 1.79 1341 ft x 0.1732 cu-ft/ft with 60% excess = 372 cu-ft
 YIELD 1.14 659 ft x 0.1732 cu-ft/ft with 0% excess = 114 cu-ft

2nd stage Cement through tool at approx. 4830' with 207 sacks
 class B 35/65 poz + 6% gel [bentonite] + 1/4# /sk
 cellophane flake followed by 100 sacks class H
 + 1% CaCl + 1/4# /sk cellophane flake.

VOLUME CALCULATIONS

YIELD 1.79 1341 ft x 0.1732 cu-ft/ft with 60% excess = 372 cu-ft
 YIELD 1.14 659 ft x 0.1732 cu-ft/ft with 0% excess = 114 cu-ft

EXHIBIT "E"

To Blanco

