#### **UNITED STATES**

## DEPARTMENT OF THE INTERIOR

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APPLICATION FOR PERMIT	TO DRILL, DEEPEN, OI	R PLUG BACK		- 1.12:03 T	
1a. Type of Work	THE STATE OF THE S	5. Lease Number	U.J.		
DRILL			NM-03733	the state of the state of	
1b. Type of Well  GAS  D	ECEIVE	6. If Indian, Name of All	ottee or Tribe		
2. Operator  CAULKINS OIL COMPANY 3824	[JUL 2 7 1998 ]	7. Unit Agreement Nan	ne 30-C	39-2592	
3. Address & Phone No. of Operator	7 00	8. Farm or Lease Nam	е .		
c/o ROBERT VERQUE	L CON. DIV	BREECH	2454		
P. O. Box 340, Bloomfield, NM 8741	3 DIST. 3	9. Well Number			
(505) 632-1544		812-M			
4. Location of Well	10. Filed, Pool, or Wildo	cat			
		7/599 Basin Dako	ta - Blanco M	Mesa Verde 723/	
		11. Section, Township,	& Range, Mer	idian, or Block	
1475 FNL & 1850' FWL		18-26N-6W			
14. Distance in Miles from Nearest Town		12. County		13. State	
30 miles southeast of Blanco, NM P	ost Office.	Rio Arriba	<del></del>	New Mexico	
15. Distance from	16. Acres in l	_ease	17. Acres	Assigned to Well	
Proposed Location				W/2 321.2	
To Nearest Property 1475'	eres		West - 320 Acres		
Line or Lease Line			<b></b>	321.2	
18. Distance From	19. Proposed	Depth	20. Rota	ry or Cable Tools	
Proposed Location					
To Nearest Well Drill, 25'	7070'			ROTARY	
Compl., Or Applied This action is subject to t For on Lease procedural review pursual	ni to 43 CER SIER S				
21. Elevations (DR, RT, GR, Etc.) appeal pursuant to 43	3 CFR 3165.4.	22. Approximate Data	e Work Will St	art	
6212' GR		September 1, 1998			
23. Proposed Casing and Cementing Program .		DRILLING OPERAT	PLIANCE W	ORIZED ARE	
EXHIBITS attached as follows		"GENERAL REQUI	REMENTS"		
"A" Location and Elevation Plat		"F" Drill Rig Layout			
"B" Ten-Point Compliance Program		"G" Production Facility Schematic			
"C" Blowout Preventer Schematic		"H" Acerage dedication plat			
"D" Multi-Point Requirements for APD		"I" Archaeolgical Repor	t		
"E" Vicinity Map - Access Roads					
24. Signed Robert I Verguer	Title	Superintendent		Date <u>05/14/98</u>	
Robert L. Verquer			<u></u>		
Permit No.		Approval Date		124/98	
Approved By	° Title			/24/98 Date 7/24/98	

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



#### EXHIBIT "B"

### TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech 812-M 1475' FNL & 1850' FWL, Sec. 18, 26N, 6W Rio Arriba County, New Mexico Lease No. NM - 03733

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

Ojo Alamo	1802'
Picture Cliffs	2486'
Chacra	3376'
Point Lookout	4755'
Greenhorn	6654'
Dakota	6772'
TD	7070'

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

Substance	Formation	Depth	Pressure	
Water	Alamo	1928'	0	
Gas	Pictured Cliffs	2556'	450	
Gas	Chara	3446'	500	
Gas	Mesa Verde	4910'	1000	
Gas	Dakota	7070'	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	36.00#	J55	LT&C	NEW
0-1000	7-7/8	5-1/2	17.00#	K55	LT&C	NEW
1000-6070	7-7/8	5-1/2	15.50#	K55	LT&C	NEW
6070-7070	7-7/8	5-1/2	17.00#	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 3070' and 5070'.

1st stage

Cement through shoe at approx. 7070' with 208 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. 5070' with 208 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

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

# State of New Mexico Theorem. Minerals & Natural Resources Departm

Form C-102 Revised Febuary 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., Aztec, N.M. 87410

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

### OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, NM 87504-2068 1111 19 Fill2: 39

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

·			METIT T		IN AND AC	REAGE DED	ICATION P	LAT		
l .	Number	7		Pool Code		<sup>a</sup> Pool Name				
		25925	<u> </u>	72319		Blanco Mesa Verde				
*Property C	ode			Property Name Well Number					Well Number	
2454					BREEC	CH			812M	
OGRID No	D.				*Operator				• Elevation	
3824					CAULKINS	OIL CO.			6212'	
					10 Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
F	18	26-N	6W		1475	NORTH	1850	WEST	Rio Arril	
			11 Botto	om Hole	Location I	f Different Fro	om Surface	1	<u>-</u>	
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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1000 Rio Brazos Rd., Aztec, N.M. 87410

### OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe. NM 87504—2088 ...... 19 10112: 39

Date of Survey

Certificate Number

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_	Number	Pool Code Pool Name				ic			
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<sup>4</sup> Property C	ode				_	ty Name			Well Number
2454			BREECH 81						812M
OGRID N	o.				-	or Name			Elevation
3824					CAULKINS	OIL CO.			6212'
					10 Surfac	e Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the		Feet from the	East/West li	ne County
F	18	26-N	6-W		1475	NORTH	1850	WEST	Rio Arrib
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