#### **UNITED STATES**

## DEPARTMENT OF THE INTERIOR

**BUREAU OF LAND MANAGEMENT** 

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### APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

		<u> </u>	- 719 BAR 17 FM 2: 0
1a. Type of Work		5. Lease Number	NII 4 00554
DRILL			<b>NM-03554</b> 
1b. Type of Well		6. If Indian, Name of	Allottee or 1 ribe
GAS	3 AMO - SOO.	~_3\ ~_3	
2. Operator		7 API Number	0 27/75
CAULKINS OIL COMPANY		1 N. T. S.	927675
3. Address & Phone No. of Operator		8. Farm or Lease Na	
c/o ROBERT VERQU	<b>₹.℃</b> , ~ %.	BREECH *C	<u> </u>
1409 W. Aztec Blvd. #7 Aztec, N	I. M. 87410	9. Well Number	
(505) 334-4323		303	
4. Location of Well		10. Filed, Pool, or W	
•		Basin Dako	
			ip, & Range, Meridian, or Block
1875 FSL & 1840' FEL		13-26N-6W	1000
14. Distance in Miles from Nearest Town	M D 4 Off	12. County	13. State
37 miles southeast of Blanco, N	<del></del>	Rio Arriba	New Mexico
15. Distance from	16. Acres	in Lease	17. Acres Assigned to Well
Proposed Location			
To Nearest Property 1840'	1920 A	cres	SOUTH - 320 Acres
Line or Lease Line	40.5		OO D Assess Calle Tauta
18. Distance From	19. Propos	sed Depth	20. Rotary or Cable Tools
Proposed Location			
To Nearest Well Drill, 850'	7600		ROTARY
Compl., Or Applied			
For on Lease		00 4	L
21. Elevations (DR, RT, GR, Etc.)		22. Approximate D	
6633 GR	<u> </u>	April 25, 20	104
23. Proposed Casing and Cementing Program			
EVIDITO Machaelan 6-11			
EXHIBITS attached as follows			
"A" Location and Elevation Plat	_	"F" Drill Rig Layout	lit. Cabamatia
"B" Ten-Point Compliance Progran "C" Blowout Preventer Schematic		"G" Production Faci	
"D" Multi-Point Requirements for A	BD.	"H" Acerage dedicat "I" Archaeolgical Re	·
"E" Vicinity Map - Access Roads	u- U	-	•
L Vicinity Map - Access Roads		"J" Land Owner Agro	sement
24. Signed Robert I Vergue	Title	Superintendent	Date 03/16/04
Robert L. Verquer	- 1109	Juperinterident	Date 03/10/04
- Tobote E. Volquei			
Permit No.		_ Approval Date	
Permit No.		_ Approval Date	Date 4-14-

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

OF Air Charles Admical and procedural review pure defit to 43 CFR 3165.3

and appeal pursuant to 43 CFR 3165.4

DIAL NO CPERA SUBJECT TO COM
"GENERAL PEQUE

DEST: NO CPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL PEQUIREMENTS".

### EXHIBIT "H"

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office

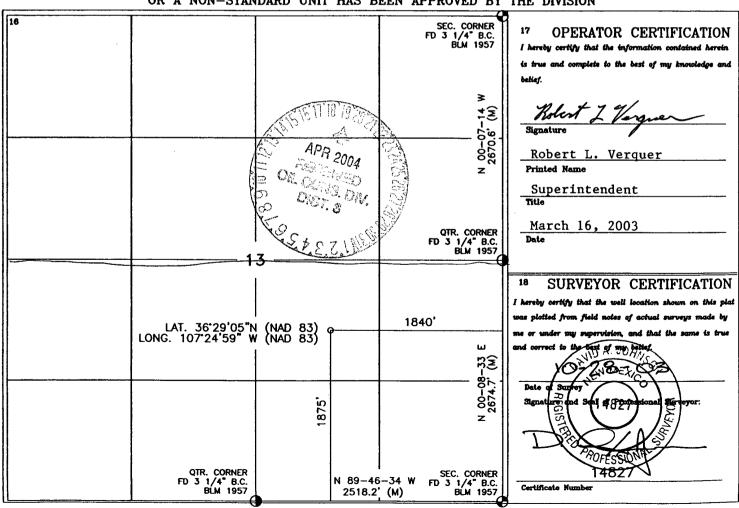
State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT IV 2040 South Pacheco, Senta Fe, NM 87505 ☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

			טע טער	CHILOI	AND ACI	CDAGL DDDI	CHILON I LA	* 1			
API Number Pool Code						<sup>8</sup> Pool Name					
30-03	9-6	7675	)	71599 Basin Dakota							
<sup>4</sup> Property C				*Property	Name		¹ ¥e	* Well Number			
2457		BREECH C						303			
OGRED No	<b>)</b> .				*Operator	Name		• 1	* Elevation		
003824	į			CAULKINS OIL COMPANY					6633'		
					<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		
J	13	26-N	6-W		1875	SOUTH	1840	EAST	RIO ARRIBA		
			11 Bott	om Hole	Location I	f Different Fro	om Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County		
na Dedicated Acres 320		1	s Joint or	r Infill		<sup>15</sup> Order No.		1			
~ 80 designated											

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



#### **EXHIBIT "B"**

#### TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech "C" 303 1875' FSL & 1840' FEL, Sec. 13, 26N, 6W Rio Arriba County, New Mexico Lease No. NM - 03554

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

Ojo Alamo	2539
Fruitland	2899
Picture Cliffs	3071
Chacra	4059
Point Lookout	5189
Greenhorn	7218
Dakota	7402
TD	7600

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

Substance	Formation	Depth	Pressure	
Water	Alamo	2539	0	
Gas	Fruitland	3065	200	
Gas	Pictured Cliffs	3128	450	
Gas	Chara	4114	500	
Gas	Mesa Verde	5441	1000	
Gas	Dakota	7540	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
1000-6600	7-7/8	5-1/2	15.50#	K55	LT&C	NEW
6600-7600	7-7/8	5-1/2	17#	K55	LT&C	NEW

The proposed cement program will be as follows:

Surface:

163 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 70% excess = 186 cu-ft

PRODUCTION:

Cement will be run in three stages with

stage tools set at approximately 3600' and 5600'.

1st stage

Cement through shoe at approx. 7600' with 233 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 80% excess = 418 cu-ft YIELD 1.14 659 ft x 0.1732 cu-ft/ft with 0% excess = 114 cu-ft

Cement through shee at approx. 5600' with 233 sacks class B 35/65 poz + 6% gel (bentonite) + 1/4# /sk cellophane flake followed by 100 sacks class H 2nd stage

+ 1% CaCl + 1/4# /sk cellophane flake.

**VOLUME CALCULATIONS** 

YIELD 1.79 1341 ft x 0.1732 cu-ft/ft with 80% excess = 418 cu-ft YIELD 1.14 659 ft x 0.1732 cu-ft/ft with 0% excess = 114 cu-ft

#### **EXHIBIT "B"**

### TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech "C" 303 1875' FSL & 1840' FEL, Sec. 13, 26N, 6W Rio Arriba County, New Mexico Lease No. NM - 03554

3rd stage

Cement through tool at approx. 3600' with 512 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 2941 ft x 0.1732 cu-ft/ft with 80% excess = 917 cu-ft
YIELD 1.14 659 ft x 0.1732 cu-ft/ft with 0% excess = 114 cu-ft

5. Operator's Minimum Specifications for Pressure Control:

EXHIBIT "C" is a schematic of a 2M blowout preventer system. The BOP's will be hydraulically tested prior to drilling out from under surface and operational checks will be made daily thereafter and recorded in the drilling tour report. Accessories to BOP will include the following:

- A. 2" minimum kill line and valve.
- B. Choke line and valve
- C. 2 Chokes
- D. Upper kelly cock valve with handle.
- E. Saftey valve and subs to fit all drill strings.
- F. Pressure gauge on choke manifold.
- G. 2" minimum choke line.
- H. Fill-up line above uppermost preventer.
- 6. The type and Characteristics of the Proposed Circulating Mud's:

Mud system will be gel-chemical with adequate stocks of absorbent agents on location to handle possible spills of fuel and oil in the surface. Heavier mud's will be on location to be added if pressure requires.

Interval	Mud Wt	Vis	Fluid Loss	Ph	Additives
0- 350	9.0	50		9	Lime
350-TD	9.0	34-40	8cc	9	Chemicals

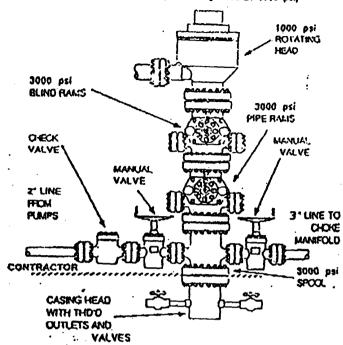
- 7. Auxiliary equipment to be used is as follows:
  - a. Float valve above bit.
  - b. Monitoring of mud system will be visual.
  - c. A sub with a full opening valve will be on the floor when the kelly is not in use.
- 8. Testing, logging and coring will be as follows:
  - a. Cores none will be taken.
  - b. Drill stem tests none anticipated.
  - c. Logging Cased hole Gas Spectrum Log bottom of surface pipe to TD.
- 9. Anticipated Abnormal Pressures and Temperatures:

No abnormal pressure, temperatures or hydrogen sulfide gases are anticipated during the course of drilling to TD. The maximum bottom hole pressure to be expected is 1500 psi.

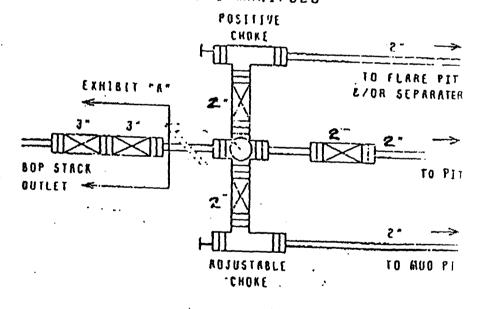
10. Anticipated Starting Date and Duration of the Operations:

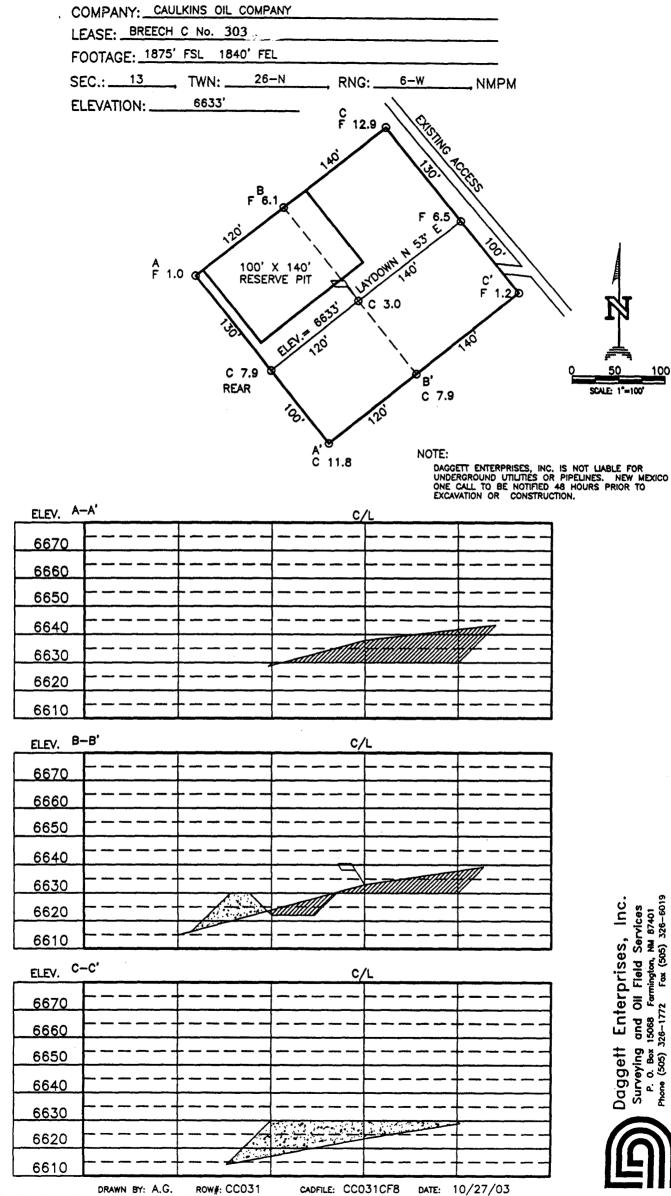
The anticipated starting date is set for April 25,2004, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 25 days.

800 Equipment
3000 psi WP (except Rotath phead at 1000 psi)



# EXHIBIT "B"





Daggett Enterprises, Inc. Surveying and Oil Field Services P. 0. Box 15068 Farmington, NM 87401 Phone (505) 326-1772 Fox (505) 326-6019