# **UNITED STATES**

# DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEME	JT.

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

204 IDV 01	ान कुल किया	5 l Ni	152	- B - B - C - C - C - C - C - C - C - C		
Ia. Type of Work (知る はい) DRILL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5. Lease Number	NIMA 355A			
Ib. Type of Well	6 If Indian Name of Allottee or Tribe					
GAS		6. If Indian, Name of Allottee or Tribe				
2. Operator	7. API Number	201				
CAULKINS OIL COMPANY	30-039-29432					
3. Address & Phone No. of Operator	8. Farm or Lease Name					
c/o ROBERT VERQUER	BREECH "C"					
1409 W. Aztec Blvd. # 7 Aztec, N. I	9. Well Number					
(505) 334-4323	828					
1. Location of Well		10. Filed, Pool, or W	ildcat			
		Basin Dako				
_			ip, & Rang	je, Meridian, or Block		
1320 FSL & 660' FEL		13-26N-6W		Teas		
14. Distance in Miles from Nearest Town	Post Office	12. County		13. State		
37 miles southeast of Blanco, NM		Rio Arriba	17 ^-	New Mexico		
15. Distance from Proposed Location	16. Acres	m Lease	17. AC	res Assigned to Well		
To Nearest Property 660'	1920 A	ores		SOUTH - 320 Acres		
Line or Lease Line	1920 A	Cies		300 m - 320 Acres		
18. Distance From	19 Propo	sed Depth	20 R	otary or Cable Tools		
Proposed Location	10.11000	ood Dopan	20.10	sary or Gasio roots		
To Nearest Well Drill, 330	7575			ROTARY		
Compl., Or Applied			t.			
For on Lease						
21. Elevations (DR, RT, GR, Etc.)		22. Approximate D	ate Work	Will Start		
6578 GR		Febuary 14	, 2005			
23. Proposed Casing and Cementing Program						
EXHIBITS attached as follows						
"A" C-103 & Location and Elevation I	Plat	"F" Drill Rig Layout				
"B" Ten-Point Compliance Program		"G" Production Faci	-	auc		
"C" Blowout Preventer Schematic		"H" Acerage dedicat				
"D" Multi-Point Requirements for API	J	"I" Archaeolgical Report "J" Land Owner Agreement				
"E" Vicinity Map - Access Roads		3 Land Owner Agr	eement			
24. Signed Robert I Vergoer	Title	Superintendent		Date 2-8-0		
Robert L. Verguer						
			_			
Permit Nd.	_ Approval Date		·			
m/		1-				
Approved By Manlesta	Title	AFM	· · · · · · · · · · · · · · · · · · ·	Date <u></u>		
ect to technical and			DRIL	LING OPERATIONS AUTH		
pursuant to 43 CFR 3165.3 NOTE: THIS FORMAT I	S ISSUED IN LIEU	OF U.S. BLM FORM 31	1 <b>60-3</b> "GEA			
				MARTIN		

This action is su procedural review pursuant to 43 CFR 3165 and appeal pursuant to 43 CFR 3165.4

IJ,.

PERATIONS AUTHORIZED ARE COMPLIANCE WITH ATTACHED

04-359

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Revised June 10, 2003 Submit to Appropriate District Office OIL CONSERVATION DIVISION

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

1220 South St. Francis Dr. Santa Fe, NM 87505

State Lease - 4 Copies Fee Lease - 3 Copies

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

☐ AMENDED REPORT

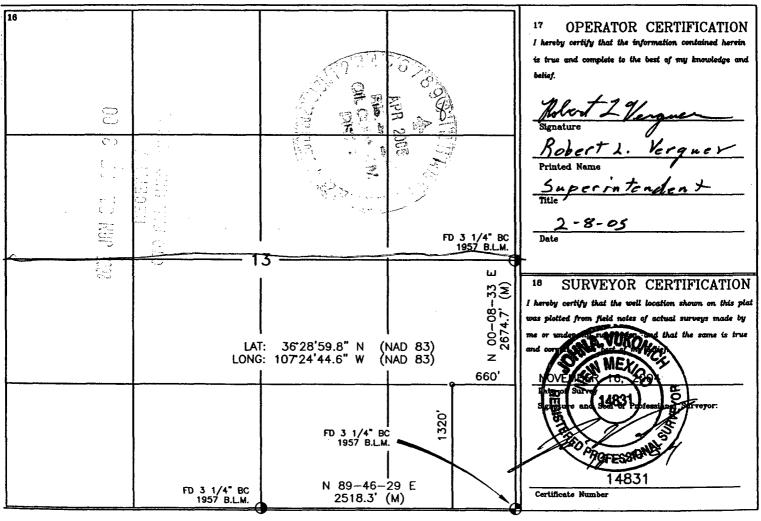
Form C-102

1220 South St. Francis Dr., Santa Fe, NM 87505

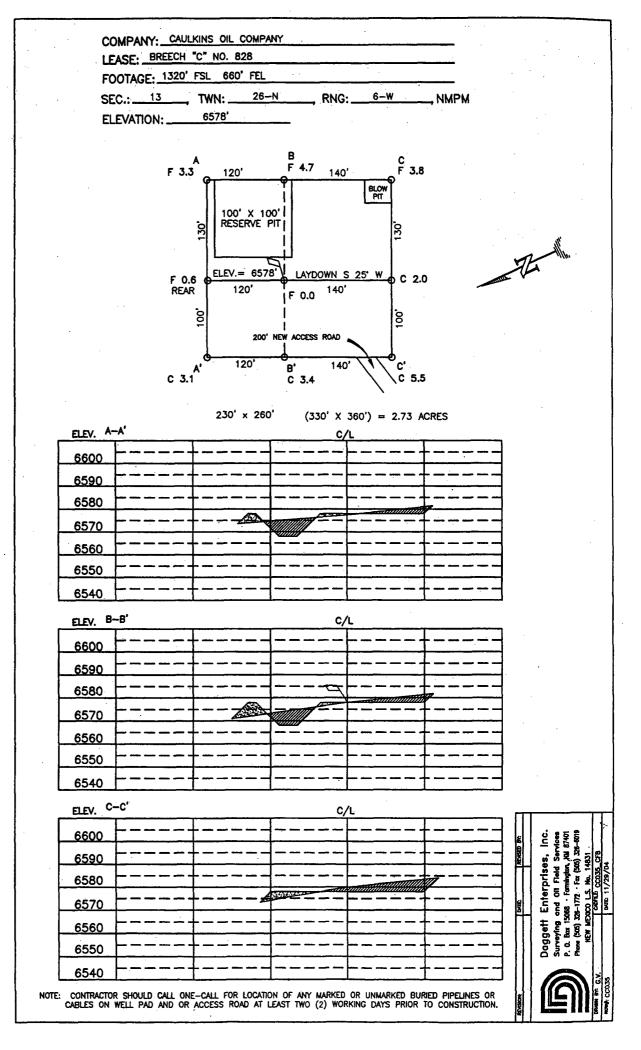
WELL LOCATION AND ACREAGE DEDICATION PLAT									
30-039-29432 Pool Code Basin Palkata									
<sup>4</sup> Property Code <sup>6</sup> Property Name						• We	ll Numl	ber	
3467 BREECH "C" 828									
Operator Name Elevation						n			
38	24		CAULKINS OIL COMPANY					6578	
<sup>10</sup> Surface Location									
UL or lot no.							East/West line		County
Р	13	26-N   6-W   1320   SOUTH   660   EAST   RIO AI						ARRIBA	
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 "Consolidation Code 12 Dedicated Acres <sup>13</sup> Joint or Infill 15 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



Office Office	State of New Me		EXHIBIT "A"	Form C-103	
District 1 ' 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natu	ral Resources	WELL API NO.	May 27, 2004	
District II	OIL CONSERVATION	DIVISION			
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Fran		5. Indicate Type of Lea		
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87		STATE [] FEE [] 6. State Oil & Gas Lease No.		
1220 S. St. Francis Dr., Santa Fe, NM 87505	,		o. State on & Gas Boas		
	ES AND REPORTS ON WELLS	<del></del>	7. Lease Name or Unit	Agreement Name	
(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA PROPOSALS.)			Breech	" <u>C</u> "	
1. Type of Well: Oil Well [ ] C	as Well [X] Other		8. Well Number		
2. Name of Operator Caulkins Oil Company			9. OGRID Number 00382	)Δ	
3. Address of Operator			10. Pool name or Wildo		
1409 W. Aztec Blvd., Suite B7, Azte	c New Mexico 87410		Basin Da	akota	
4. Well Location					
Unit Letter I : 1320'	<del></del>			A '1	
Section 13 Towns	hip 26N Range 6W 11. Elevation (Show whether DR	NMPN RKR RT GR etc		Arriba	
Pit or Below-grade Tank Application ☐ or	6578				
Pit type <u>Drilling</u> Depth to Groundwater	·	well 11/4 mile	Distance from nearest surface v	water 3/4 mile	
	··········	bls; Construction M			
12. Check Ap	ppropriate Box to Indicate N	ature of Notice,	Report or Other Data		
NOTICE OF INT	ENTION TO:	6116	BSEQUENT REPOR	T 0E:	
PERFORM REMEDIAL WORK [ ]		REMEDIAL WOR		RING CASING []	
	CHANGE PLANS []	1	ILLING OPNS.[] PAN		
PULL OR ALTER CASING [ ]	MULTIPLE COMPL []	CASING/CEMEN	IT JOB [ ]		
OTHER: Drilling Pit	[X]	OTHER:		f 1	
13. Describe proposed or comple					
of starting any proposed work or recompletion.	c). SEE RULE 1103. For Multip	le Completions: A	ttach wellbore diagram of	proposed completion	
Construct new below grade drilling pi	along with location.				
Cut and fill diagram attached.					
A liner will be installed in this pit to p	revent ground water contamination	n.			
Construction is scheduled to begin: M	arch 2005				
I hereby certify that the information al	ove is true and complete to the h	act of my knowlede	go and haliaf I for the service	C. AlA	
grade tank has been/will be constructed and					
SIGNATURE Ret 7 %	TITLE !	Superintendent	DATE _ <b>2</b> -:		
Type or print name Robert L. Verq				505-334-4323	
For State Use Only	$\mathcal{D}_{\mathcal{L}}$	FEMILY OIL & GAS	INSPECTOR, DIST. (58	(i) 0	
APPROVED BY:	TITLE_	PER OFF AIR	DA	ER - 8 2005	
Conditions of Approval (if any):	/ 1				



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

## TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech "C" 828 1320' FSL & 660' 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	2454
Fruitland	2757
Picture Cliffs	3009
Chacra	3903
Point Lookout	5158
Greenhorn	7159
Dakota	7345
TD	7575

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

Substance	Formation	Depth	Pressure
Water	Alamo	2550	0
Gas	Fruitland	3005	200
Gas	Pictured Cliffs	3088	450
Gas	Chara	3954	500
Gas	Mesa Verde	5364	1000
Gas	Dakota	7499	1500

4. The proposed casing program will be as follows:

Depth	Hole Size	O.D.	Weight	Grade	Type	New/Used
	12-1/4	9-5/8	36#	J55	LT&C	NEW
0-1000, 575 1000 <del>-5575</del>	-7-7/8	5-1/2	17#	K55	LT&C	NEW
1000 <del>-5575</del>	7-7/8	5-1/2	15.50#	K55	LT&C	NEW
6575-7575	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 3575' and 5575'.

1st stage

Cement through shoe at approx. 7575' 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

2nd stage

Cement through shoe at approx. 5575' 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

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

## TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company
Breech "C" 828
1320' FSL & 660' FEL, Sec. 13, 26N, 6W
Rio Arriba County, New Mexico
Lease No. NM - 03554

3rd stage

Cement through tool at approx. 3575' with 508 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 2916 ft x 0.1732 cu-ft/ft with 80% excess = 909 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

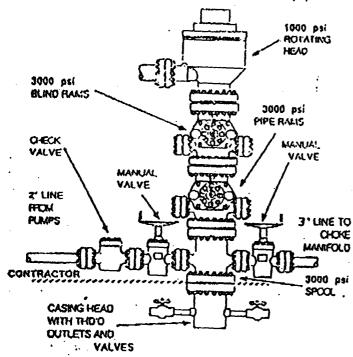
- 7. Auxiliary equipment to be used is as follows:
  - a. Float valve above bit.
  - b. Monitoring of mud system will be visual.
  - c. A sub with a full opening valve will be on the floor when the kelly is not in use.
- 8. Testing, logging and coring will be as follows:
  - a. Cores none will be taken.
  - 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 Febuary 14,2005, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 25 days.

BOP Equipment
3000 psi WP (except flouting head at 1000 psi)



CHOKE MANIFOLD

