### **UNITED STATES**

## DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

		. ,	<u> </u>		
1a. Type of Work	5. Lease Number				
DRILL	NM-03547				
1b. Type of Well	6. If Indian, Name of Allottee or Tribe				
GAS					
2. Operator	7. API Number				
CAULKINS OIL COMPANY	30-039-29498				
3. Address & Phone No. of Operator	8. Farm or Lease Na	ame			
c/o ROBERT VERQUE	R	BREECH "F"			
1409 W. Aztec Blvd. #7 Aztec, N.	M. 87410	9. Well Number			
(505) 334-4323		16			
4. Location of Well		10. Filed, Pool, or W	fildcat		
		Basin Dako	ota		
		11. Section, Townsh	ip, & Range, Meridian, or Block		
1900 FNL & 890 FEL		H 33-27N-6W			
14. Distance in Miles from Nearest Town	<del>-</del>	12. County	13. State		
35 miles southeast of Blanco, NM	Post Office.	Rio Arriba	New Mexico		
15. Distance from	16. Acres	in Lease	17. Acres Assigned to Well		
Proposed Location					
To Nearest Property 890'	1600 A	cres	EAST - 320 Acres		
Line or Lease Line					
18. Distance From	19. Propo	sed Depth	20. Rotary or Cable Tools		
Proposed Location	į				
To Nearest Well Drill, 915'	7675'		ROTARY		
Compl., Or Applied					
For on Lease			T.V.		
21. Elevations (DR, RT, GR, Etc.)		22. Approximate D	Date Work Will Start 30 314 23		
6633 GR		SEPTEMBER 4, 2006			
23. Proposed Casing and Cementing Program  EXHIBITS attached as follows			AUG 2006 RECEIVED COMS. DAV		
"A" C-103 & Location and Elevation	Plat	"F" Drill Rig Layout "G" Production Facility Schematic "H" Accrage dedication plat "I" Archaeological Report			
"B" Ten-Point Compliance Program		"G" Production Facility Schematic			
"C" Blowout Preventer Schematic	"H" Acerage dedication plat				
"D" Multi-Point Requirements for AP	"I" Archaeolgical Report				
"E" Vicinity Map - Access Roads	"J" Pipeline Schematic				
24. Signed Robert L. Verquer	Title	Superintendent	Date <u>7-14-06</u>		
Permit No.	V	Approval Date	01./2		
Approved By	Title	MM	Date		

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

V

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 611 South First, Artesia, N.M. 88210

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

H

DISTRICT III

2040 South Pacheco, Santa Fe, NM 87505

33

27-N

6-W

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

☐ AMENDED REPORT

RIO ARRIBA

### WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>1</sup> API Number • Well Number <sup>6</sup>Property Name 16

**NORTH** 

890

**EAST** 

BREECH F OGRID No. Elevation Operator Name 6633 CAULKINS OIL COMPANY <sup>10</sup> Surface Location UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line Range County

1900

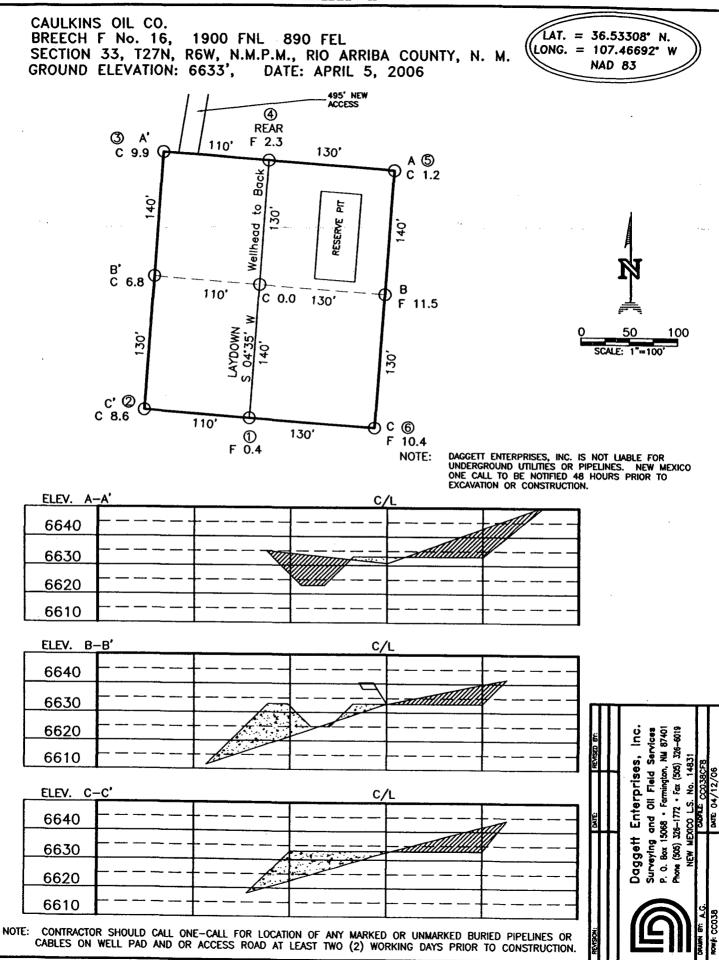
11 Bottom Hole Location If Different From Surface Lot Idn North/South line UL or lot no. Section Township Feet from the East/West line County 16 Order No. Dedicated Acres 19 Joint or Infill M Consolidation Code

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 16

QTR. CORNER FD 3 1/4" B.C. BLM 1955	S 88-735-52 W 5276.9' (M)	QTR. CORNER FD 3 1/4" B.C. BLM 1955	OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
	LAT. 36.53308'N (NAD 83) LONG. 107.46692' W (NAD 83)	QTR. CORNER FD 3 1/4* B.Q. BLM 195\$	Signature  Printed Name  18 SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this pla 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.  APRIL 5. 2006
			Dete of WA VUKO Sign of Superor  14831  Certific Control Superor  14831  Certific Control Superor  14831  Certific Control Superor  10FESSIONAL

# EXHIBIT "A" State of New Mexico Energy, Minerals and Natural Resources Department

	WELL API NO.	WELL APINO. 30-039-29998		
OIL CONSERVATION DIVISION	5. Indicate Type of	5. Indicate Type of Lease		
1220 South St. Frances Dr.	STATE[] F	EE[]		
Santa Fe, New Mexico 87505	THIS FORM 6. State Oil & Gas I	ease No		
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE T FOR PROPOSALS TO DRILL OR TO DEEPEN OR TO PLUG BAC	TO A			
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (I	FORM C-101) NIVINVI-U3	onit Agreement Name		
FOR SUCH PROPOSALS.)	7. Lease Name of U	nit Agreement Name		
	**			
1. Type of Well	8. Well No.			
Oil Well [ ] Gas Well [X] Other [ ]  2. Name of Operator	9. OGRID Number			
Caulkins Oil Company	003824	7. GGRID Number		
3. Address of Operator	Pool Name or Wild			
1409 W. Aztec Blvd., Suite B7, Aztec, NM 87410	BASIN DAK	OTA		
Unit Letter H: 1900' feet from the North line and	890' feet from the West line			
33 Section 27N Township 6W Range	NMPM Rio Arriba County			
10. Elevation (Show	Whether DF,RKB,RT,GR,etc.)			
Did on Dalam and J. Trank A. W. Co. Co.	6633 GR			
Pit or Below-grade Tank Application [X] or Closure []	71000'	>1000'		
Pit type <u>Drilling</u> Depth to Groundwater 100' Distance from nearest i	fresh water well <u>1 mile</u> Distance from	nearest surface water <u>1/2 mile</u>		
Pit Liner thickness: 30 mil Below-grade Tank: Volume	bbls: Construction Material			
NOTICE OF INTENTION TO:		T DEPORT OF		
Perform Remedial Work [] Plug and Abandon []		T REPORT OF: Altering Casing [ ]		
Temporarily Abandon [ ] Change Plans [ ]	Commence Drilling Opns. []	Plug and Abandonment []		
Pull or Alter Casing [ ] Multiple Completion [ ]	Casing Test and Cement Job []	[ ]		
	Casing restand Cement 100 1 1	1		
		[]		
	Other:	[]		
		[]		
Other: Drilling Pit [X]  12. Describe Proposed or Completed Operations		[]		
Other: Drilling Pit [X]  12. Describe Proposed or Completed Operations  Construct new below-grade drilling pit along with location.		[]		
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### **EXHIBIT "B"**

### TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech "F" 16 1900' FNL & 890' FEL, Sec. 33, 27N, 6W Rio Arriba County, New Mexico Lease No. NM-03547

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

2201
2850
3069
4022
5308
7233
7461
7665

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

Substance	Formation	Depth	Pressure	
Water	Alamo	2355	0	
Gas	Fruitland	3060	200	
Gas	Pictured Cliffs	3172	450	
Gas	Chara	4122	500	
Gas	Mesa Verde	5454	1000	
Gas	Dakota	7623	1500	

4. The proposed casing program will be as follows:

Depth	Hole Size	O.D.	Weight	Grade	Type	New/Used
0-350 0-1000	12-1/4 7-7/8	9-5/8 5-1/2	36# 17#	J55 K55	LT&C LT&C	NEW NEW
1000-6675	7-7/8 7-7/8	5-1/2 5-1/2	17# 15.50#	K55	LT&C	NEW
6675-7675	7-7/8	5-1/2	17#	K55	LT&C	NEW

The proposed cement program will be as follows:

Surface:

126 sacks type III with 2% CaCI Circulate Cement and 1/4# per sack cellant

**VOLUME CALCULATIONS** 

YIELD 1.47 350 ft x 0.3132 cu-ft/ft with 70% excess = 186 cu-ft

**PRODUCTION:** 

TOCatloust 100 above

stage tools set at approximately 3675' and 5675'. Surface Csg. Shoe

1st stage Cement through shoe at approx. 7675' with 172 sacks

Type III premium lite FM + 1/4 # /sk cellohane flake followed by 100 sacks Type III neat

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

**VOLUME CALCULATIONS** 

YIELD 2.09 1151 ft x 0.1732 cu-ft/ft with 80% excess = 359 cu-ft YIELD 1.47 849 ft x 0.1732 cu-ft/ft with 0% excess = 147 cu-ft

2nd stage Cement through shoe at approx. 5675' with 172 sacks Type III premium lite FM + 1/4 # /sk cellohane flake

followed by 100 sacks Type III neat

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

**VOLUME CALCULATIONS** 

YIELD 2.09 1151 ft x 0.1732 cu-ft/ft with 80% excess = 359 cu-ft YIELD 1.47 849 ft x 0.1732 cu-ft/ft with 0% excess = 147 cu-ft

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

### TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech "F" 16 1900' FNL & 890' FEL, Sec. 33, 27N, 6W Rio Arriba County, New Mexico Lease No. NM-03547

3rd stage

Cement through shoe at approx. 5675' with 421 sacks Type III premium lite FM + 1/4 # /sk cellohane flake followed by 100 sacks Type III neat + 1% CaCl + 1/4# /sk cellophane flake.

VOLUME CALCULATIONS YIELD 2.09 2826 ft x 0.1732 cu-ft/ft with 80% excess = 881 cu-ft YIELD 1.47 849 ft x 0.1732 cu-ft/ft with 0% excess = 147 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	8cc	9	Lime
350-TD	9.0	34-40		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:

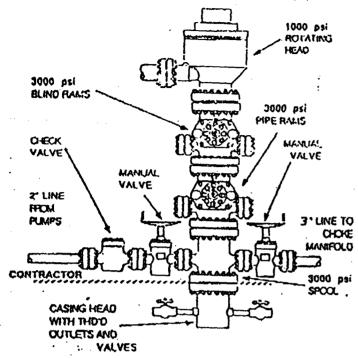
No abnormal pressure, temperatures or hydrogen sulfide gases are anticipated during the course of drilling to TD. The maximum bottom hole pressure to be expected is 1500 psi.

10. Anticipated Starting Date and Duration of the Operations:

The anticipated starting date is set for September 4,2006, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 25 days.

BOP Equipment

3000 pai WP (except floliting head at 1000 psi)



CHOKE WANTEOLD

