### **UNITED STATES**

## Form approved

Budget Bureau No. 1004-0136

Expires August 31, 1985

DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.			
	NMN	NMNM-03554							
APPLICAT	ION FOR PERM	16 FINDIÁN ALLOTTERO	R TRIBLE NAME						
b. TYPE OF WORK- OIL GAS	DRILLx		SINGLE	MULTIPLE	7. UNIT AGREEMENT NAM APT # 30 - C 18. FARM OR LEASE NAME	7. UNIT AGREEMENT NAME APT # 30 - C 39 - Z6 76 4 TO FARM OR LEASE NAME			
	. X OTHER		ZONE X	-ZQNE _	BREE	ECH "C" 🔍			
2 NAME OF OPERATOR				,	9. WELL NO.				
3. ADDRESS OF OPERATOR		OIL COMPAN	JUL 2	no1 -	10 FIELD AND POOL, OR W	689-F			
2875	P.O. BOX 3 BLOOMFII	40 ELD, NM 87413	A	5) 682-1544	١.	BASIN DAKOTA			
4 LOCATION OF WELL (Report los	cation clearly and in accordance with ar		OIL CON		II SEC.T.R.M. OR BLO				
At surface			O DIST	`.\$	SEC 1	2-26N-6W			
At proposed prod. zone		871' F/E (UNIT	1) & C			======================================			
14. DISTANCE IN MILES AND DIR	ECTION FROM NEAREST TOWN OF		735	11	12 COUNTY OR PARISH	13. STATE			
15 DISTANCE FROM PROPOSED*		heast of Blanco N	IM post office	10.1	Rio Arriba  NO. OF ACRES ASSIGNED TO THIS WELL	New Mexico			
LOCATION TO NEAREST PROPER OR LEASE LINE, FT.	TY								
(Also to nearest drlg unit line, if any)		1871'	1760'		South 320 a	South 320 acres			
<ol> <li>DISTANCE FROM PROPOSED :</li> <li>TO NEAREST WELL, DRILLING, O</li> </ol>			19. PROPOSED DEPTH		20 ROTARY OR CAB	LE TOOLS			
OR APPLIED FOR, ON THIS LEASE		1263'	7650'		ROTARY				
21. ELEVATIONS (Show Whether D 6638 GR	F. RT. GR. etc.)			, <b></b>	22. APPROX. DA	ATE WORK WILL START*			
23	0.75		CASING AND CEMEN	TING PROGR					
SIZE OF HOLE 12 1/4"	SIZE OF CASING 9 5/8"	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT				
7 7/8"	5 1/2"	15.5# & 17#		-	142 sacks (197 cu. ft.) Circ- 1152 sacks (2151 cu. ft.) Circ-				
****									
EXHIBITS attached as	s follows tion and Elevation Pl	lot	"E" D-	ill Dia Lavan					
				ill Rig Layou					
	Point Compliance Pro				ility Schematic				
"C" Blow	out Preventer Schem	natic	"H" Ac	"H" Acreage Dedication Plat					
"D" Multi	-Point Requirements	s for APD	"I" Arc	"I" Archaeological Report					
"E" Vicin	ity Maps – Access R	oads.	"J" Wi	"J" Williams Field Services' Pipeline Plat					
procedura	n is to typical commonly I review purcusant to al-pursuant to 43 Cf	) 43 OPA SIGA. <b>3</b>		11.28891.1	10 - 10 - 20 - 3 - 10 - 20 27 - 20 - 20 - 10 - 20 - 20 - 20 - 20 - 20	wyo Mara			
IN ABOVE SPACE DESCRIBE PROPand true vertical depths Give blowout		epen or plug back, give data on pre	sent productive zone and proposed new produ	active zone. If proposal is a	to drill or deepen directionally, give pertinent da	ta on subsurface locations and meas			
SIGNED Robert	+ I Verguer		TITLE <u>SUPE</u>	RINTENDE	NT DATE June	6, 2001			
PERMIT NO.			APPROVAL I		7/11/01				
	let to								
APPROVED BY	/s/ Joel Far	reil	TITLE		DATE				

This format is in lieu of Bureau of Land Management form 3160-3 tida den en 🕠

DISTRICT | 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

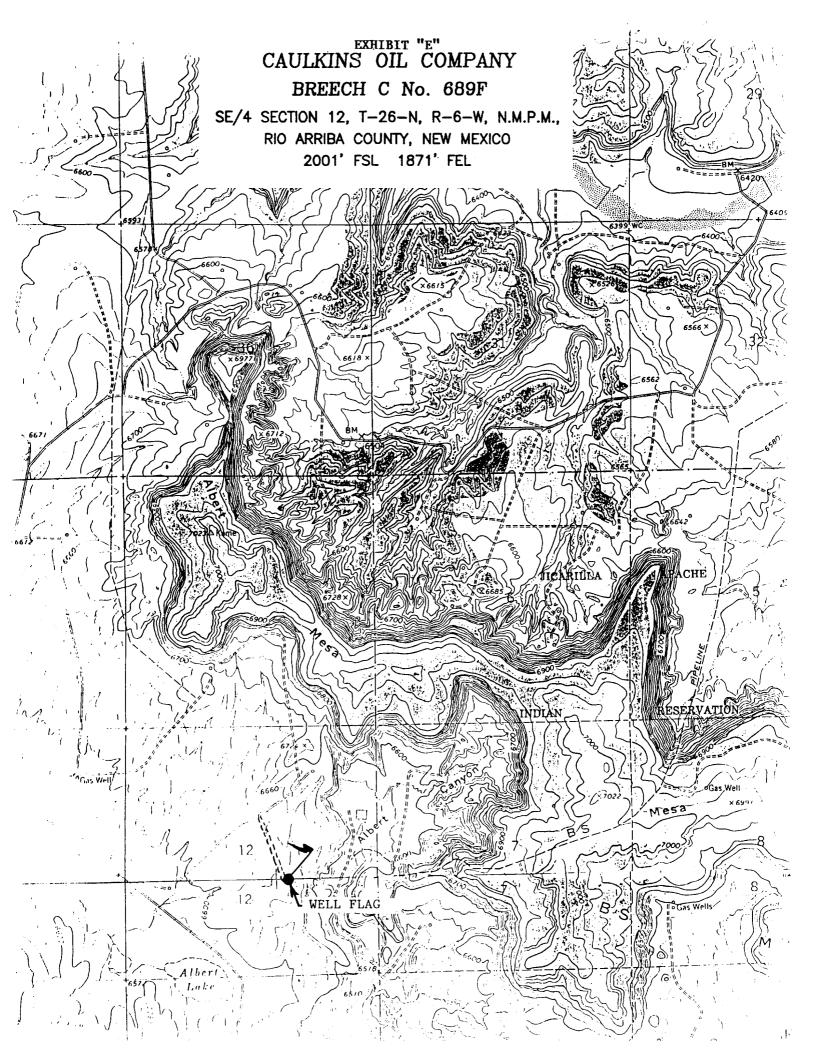
OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV

☐ AMENDED REPORT

2040 South Pache	out out the			OCATIO:	N AND	AC	CREAGE	DEDI	САТ	ION PL	AT		
Z 2 2	Number 7	6769		Pool Code	(1		Ro	Ciai	17.	Pool Name			
Property Co		6764 71599 Bacin Da  Property Name  BREECH C						<u> </u>	*Well Number				
Z824				<del></del>	•Ор-	erator	Name					i	Elevation
5001					10 Sur	face	Locatio	n			<u>,                                     </u>		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/S	outh line		from the	East/Wes		County
	12	26-N	11 Do 11	m Uala	200		If Diffor			1871'	EAS	· I	RIO ARRIBA
UL or lot no.	Section	Township	Range	om Hole	LOCAL		If Differ	ent fro		from the	East/Wes	st line	County
in Dedicated Acre	<u>)</u>		<sup>19</sup> Joint or	Infill	<sup>14</sup> Consolid	iation	Code		15 Ord	er No.			
NO ALLOW.	ABLE W											EEN CO	ONSOLIDATED
16		OR A N	ION-STA	NDARD I	JNIT HA	S B	EEN API	PROVED	BY	THE DIV	ISION		
				12	67	74*		FD B.L.M.	BC	Signatur Robo Printed Sup			of my knowledge and
				776'		7. 36°20	1871' 0'59"N 7'24'59" W	19	00-08-44 E 2671.72'	I hereby cer was plotted	tify that the from field n my superports to the vest i	well location of action of	CTIFICATION  ion shown on this plat  was surveys made by  hat the same is true  RUS  AUTOPPT:
		FD	B.L.M. BC 1957		N	89-34 2646	4-30 W 3.84'	FD B.L.M. 19	킥	Certificate	88	-	



#### EXHIBIT "B"

#### TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company
Breech \*C\* 689-F
2001' FSL & 1871' FEL, Sec. 12, 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	2555'
Picture Cliffs	3123'
Cliff House	4812'
Tocito	6854'
Greenhorn	7258'
Dakota	7430'
TD	7650'
	,

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

Substance	Formation	Depth	Pressure
Water	Alamo	2680'	0
Gas	Pictured Cliffs	3197'	450
Gas	Cliff House	4854'	800
Gas	Tocito	6878'	1200
Gas	Dakota	7624'	1400

4. The proposed casing program will be as follows:

Depth	Hole Size	O.D.	Weight	Grade	Туре	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
1000-6650	7-7/8	5·1/2	15.50#	K55	LT&C	NEW
6650-7650	7-7/8	5·1/2	17.00#	K55	LT&C	NEW

The proposed cement program will be as follows:

Surface:

142 sacks Type III with 1% CaCl and 1/4# per sack cellophane flake.

**VOLUME CALCULATIONS** 

YIELD 1.39 350 ft x 0.3132 cu-ft/ft with 80% excess = 197 cu-ft

PRODUCTION:

Cement will be run in three stages with

stage tools set at approximately 3650' and 5650'.

1st stage

Cement through shoe at approx. 7650' with 191 sacks Type III 35/65 poz + 6% gel (bentonite) + 1/4# /sk cellophane flake followed by 115 sacks Type III + 1% CaCl + 1/4# /sk cellophane flake.

**VOLUME CALCULATIONS** 

YIELD 2.07 1342 ft x 0.1732 cu-ft/ft with 70% excess = 395 cu-ft
YIELD 1.39 1342 ft x 0.1732 cu-ft/ft with 40% excess = 160 cu-ft

2nd stage Cement through shoe at approx. 5650' with 191 sacks

Type III 35/65 poz + 6% gel (bentonite) + 1/4# /sk cellophane flake followed by 115 sacks Type III

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

**VOLUME CALCULATIONS** 

YIELD 2.07 1342 ft x 0.1732 cu-ft/ft with 70% excess = 395 cu-ft YIELD 1.39 658 ft x 0.1732 cu-ft/ft with 40% excess = 160 cu-ft

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

#### TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech "C" 689 F 2001' FSL & 1871' FEL, Sec. 12, 26N, 6W Rio Arriba County, New Mexico Lease No. NM - 03554

·3rd stage

Cement through shoe at approx. 3650' with 425 sacks Type III 35/65 poz + 6% gel (bentonite) + 1/4# /sk cellophane flake followed by 115 sacks Type III + 1% CaCl + 1/4# /sk cellophane flake.

**VOLUME CALCULATIONS** 2992 ft x 0.1732 cu-ft/ft with 70% excess = 881 cu-ft YIELD 2.07 YIELD 1.39 658 ft x 0.1732 cu-ft/ft with 40% excess = 160 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 following:

- A. 2° minimum kill line and valve.B. Choke line and valve.C. 2 chokes

- D. Upper kelly cock valve with handle available.
- E. Safety valve and subs to fit all drill strings.
- F. Pressure gauge on choke manifold.
- G. 2" minimum choke line.
- H. Fill-up line above the 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 on 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	34-60	8cc	9	Chemicals

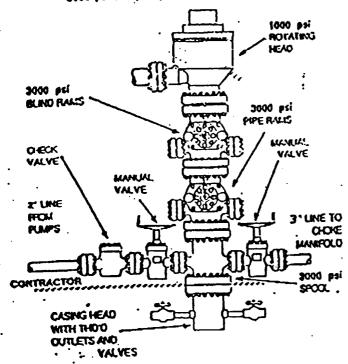
- 7. Auxiliary equipment to be used is as follows:
  - a. Float valve above bit.
  - b. Monitoring of mud system will be visual.
  - c. A sub with a full opening valve will be on the floor when the kelly is not in use.
- 8. Testing, logging and coring will be as follows:
  - a. Cores none will be taken.
  - b. Drill stem tests none anticipated.
  - c. Logging IEG and FDC from 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 July 20, 2001, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 25 days.

BOP Equipment at 1000 psq and at 1000 psq



EXHIGIT "B"
CHOKE MANIFOLD

