Form 3160-3 (November 1983) (formerly 9-331C)

Form	approved
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Budget Bureau No. 1004-0136

FEB -6

DATE

		Expires August 31, 1985				
	DE	5. LEASE DESIGNATION AND SERIAL NO.				
	NMSF-079034-A					
APPLICATI	" AF INITIAR ALLOTTEE OR TRIBE NAME					
la TYPE OF WORK:  b. TYPE OF WELL: OIL GAS	DRILL X		Γ	IPLE	7. UNIT AGREEMENT NAME  30-039-26621  8. FARM OR LEASE NAME	
2. NAME OF OPERATOR			20	NE <u>X</u> -	BREECH "A"	
	CAULKINS	OIL COMPANY	A 3	824	9. WELL NO. 136-F	
* ADDRESS OF OPERATOR	P.O. BOX 34	10	FEB 2001		10. FIEED AND POOL, OR WILDCAT	
LOPATION OF WELL (Report from		LD, NM 87413	Ph. (505) 632	-1544	DAKOTA, MESA VERDE	
At surface				-		
At proposed prod. zone	1879' F.S 17	69' F/E (Uni	LI)		Sec. 10-26N-6W	
14 DISTANCE IN MILES AND DIREC	CTION FROM NEAREST TOWN OR	POSTOFFICE*	0/10	***	12. COUNTY OR PARISH 13. STATE	
15. DISTANCE FROM PROPOSED	35 miles southeast				Rio Arriba New Mexico	
LOCATION TO NEAREST PROPERTY	(	11	6. NO. OF ACRES IN LEASE 2400'	17. NO. OF ACE	RES ASSIGNED TO THIS WELL  East 320	
OR LEASE LINE, FT. (Also to marest drig, unit line, if any)		1769'	2400		East 320	
IN. DISTANCE FROM PROPOSED LO TO NEAREST WELL DRILLING, COL		11	PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS	
OR APPLIED FOR, ON THIS LEASE, I		189'	7500' —	ROTARY		
21. FLCV. THIS Socion 18- procedural rev	niew pursuant to 43	CFR 3165.3 (25	41'	<u>-</u>	22 APPROX. DATE WORK WILL START	
23. and appeal pu	SIZE OF CASING	PROPOSED CA	SING AND CEMENTING P	ROGRAM		
12 1'4"	9 5/8"	36#	450°	1	98 sacks (225 cu. ft.) Circ to Sur	
7 7/8"	5 1/2"	15.5# & 17#	7500'—		169 sacks (2035 cu. ft.) Cive to Su	
"B" Ten-Po	follows  on and Elevation Plant  oint Compliance Pro  ut Preventer Schema	gram	BRILLING OF SUBJECT TO SUBJECT TO "GENERAL" "F" Drill Rig "G" Production "H" Acreage I	COMPLIANT REQUIREMENT Layout on Facility So	chematic	
	Point Requirements					
	. Our requirements	MAD	"I" Archaeolo	-		
"D" Multi-	y Maps – Access Ro	nade	412 William -	r:-14 0	es' Pipeline Plat	

TITLE

/s/ Jim Lovato

APPROVED BY

## EXHIBIT "H"

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-10 Revised October 18, 199 Instructions on bac Submit to Appropriate District Offic State Lease - 4 Copie

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Fee Lease - 3 Copie

AMENDED REPOR

District IV 2040 South Pacheco, Santa Fe, NM 87505

<sup>13</sup> Joint or Infill

320

14 Consolidation Code

30-039-2662	VELL LOCATION AND ACREAC / Pool Code / 71599	' Pool Name BASIN DAKOTA
Property Code	<sup>5</sup> Property Name	* Well Number
2455	BREECH "A"	136-F
OGRID No.	Operator Name	
003824	Caułkins Oil Company	

UL or lot no. Section Township Range Lot Ida Feet from the North/South line Feet from the East/West line County J 10 26N 6W 1879' South 1769' East Rio Arriba 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 12 Dedicated Acres

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION LINTIN ALL INTERESTS HAVE BEEN CONSOLIDATED OR A

<sup>15</sup> Order No.

	NON-STANI	DARD UNIT HAS BEI	EN APPROVED BY T	HE DIVISION
16				<sup>17</sup> OPERATOR CERTIFICATION  I hereby certify that the information contained herein is
		من من المناس	130	true and complete to the best of my knowledge and
				Robert I Verguer Signature
				Printed Name Robert L. Verquer
				Title Superintendent  Date 12-18-00
		12 S	1769	<sup>18</sup> SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by my supervision, and that the same is true and correct to the best of my knowledge and belief.
		1879;		Date of Survey Signature and Seal of Professional Surveyor:
		rijet.		Certificate Number

## EXHIBIT "H"

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1880 Rio Reazos Rd Artes NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

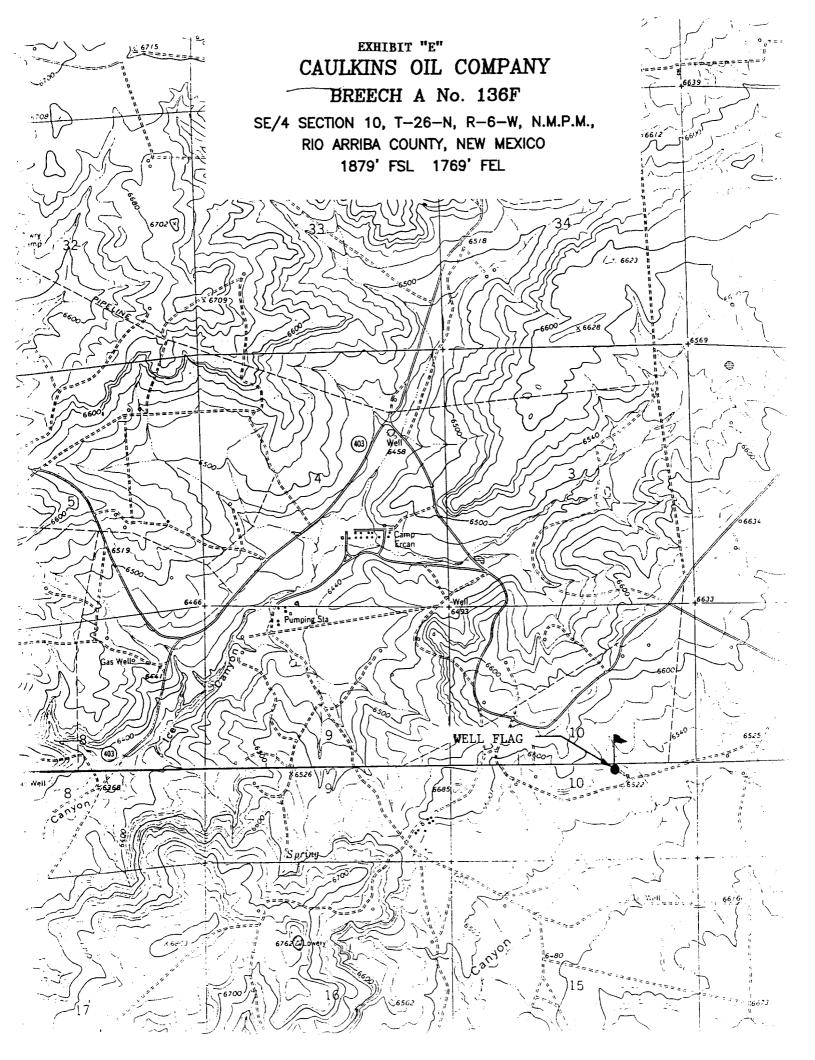
Form C-10 Revised October 18, 199 Instructions on bac Submit to Appropriate District Offic State Lease - 4 Copie

Certificate Number

# OIL CONSERVATION DIVISION 2040 South Pacheco

District IV	ridi, ribice, i		Santa Fe, NM 87505 (2007) 2: 07						Fee Lease - 3 Copie
2040 South Pach	eco, Santa Fe	, NM 87505	t-state					AMENDED REPOR	
		W	ELL L	OCATIO	N AND AC	REAGE DEI	DICATION PI	LAT	
57	API Numbe		İ	<sup>1</sup> Pool Cod			³ Pool		
50-05	1-40	061		72319			BLANCO MI	ESA VERDE	Ε
<sup>4</sup> Property	Code	,			<sup>5</sup> Propert	y Name			* Well Number
245	5				BREEC	'H "A"			136-F
OGRID	No.				" Operato	r Name			*Elevation
0038	24	<u></u>	Caulkins Oil Company				6541 GR		
<del></del>					10 Surface	e Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	e County
J	10	26N	6W		1879'	South	1769'	East	Rio Arriba
			11 B	ottom Ho	ole Location	If Different F	rom Surface	· ·	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	e County
12 Dedicated Acre	es <sup>©</sup> Joint o	or Infill "C	onsolidation	Code 15 Oi	rder 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 17 OPERATOR CERTIFICATION 16 I hereby certify that the information contained herein is true and complete to the best of my knowledge and Signature Printed Name Robert L. Verquer Superintendent 12-18-00 <sup>18</sup>SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by my supervision, and that the same is true and correct to 1769 the best of my knowledge and belief. Date of Survey Signature and Seal of Professional Surveyor: 1879



BOP Equipment

3000 psi WP (except flotating head at 1000 psi)

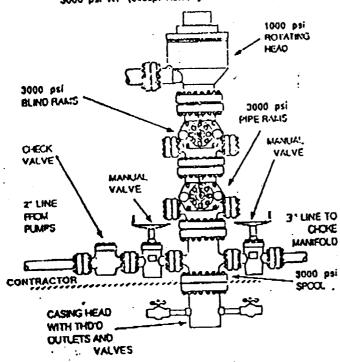
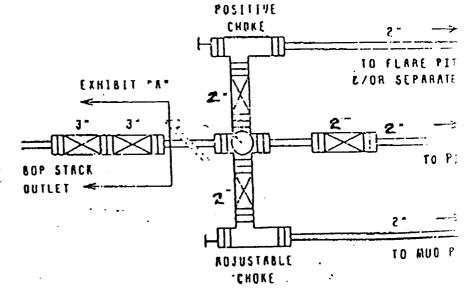


EXHIBIT "B"
CHOKE MANIFOLD



#### EXHIBIT "B"

## TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech "A" 136-F 1879' FSL & 1769' FEL, Sec. 10, 26N, 6W Rio Arriba County, New Mexico Lease No. NM - 079035-A

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

Ojo Alamo	2301'
Picture Cliffs	2975'
Cliff House	4655'
Tocito	6702'
Greenhorn	7106'
Dakota	7324'
TD	7500'

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

Formation	Depth	Pressure
Alamo Pictured Cliffs Cliff House Tocito Dakota	2475' 3082' 4772' 6729' 7462'	0 450 800 1200 1400
	Alamo Pictured Cliffs Cliff House	Alamo 2475' Pictured Cliffs 3082' Cliff House 4772' Tocito 6729'

4. The proposed casing program will be as follows:

Depth	Hole Size	O.D.	Weight	Grade	Type	New/Used
0-450	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
1000-6500	7·7/8	5·1/2	15.50#	K55	LT&C	NEW
6500-7500	7·7/8	5·1/2	17.00#	K55	LT&C	NEW

The proposed cement program will be as follows:

Surface: 198 sacks class H with 1% CaCl and 1/4# per sack cellophane flake.

**VOLUME CALCULATIONS** 

YIELD 1.14 450 ft x 0.3132 cu-ft/ft with 60% excess = 225 cu-ft

**PRODUCTION:** Cement will be run in three stages with

stage tools set at approximately 3500' and 5500'.

1st stage Cement through shoe at approx. 7500' with 221 sacks

class B 35/65 poz + 6% gel (bentonite) + 1/4# /sk cellophane flake followed by 120 sacks class H

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

**VOLUME CALCULATIONS** 

YIELD 1.79 1342 ft x 0.1732 cu-ft/ft with 70% excess = 395 cu-ft YIELD 1.14 658 ft x 0.1732 cu-ft/ft with 20% excess = 137 cu-ft

2nd stage Cement through tool at approx. 5500' with 221 sacks

class B 35/65 poz + 6% gel (bentonite) + 1/4# /sk cellophane flake followed by 120 sacks class H

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

**VOLUME CALCULATIONS** 

YIELD 1.79 1342 ft x 0.1732 cu-ft/ft with 70% excess = 395 cu-ft YIELD 1.14 658 ft x 0.1732 cu-ft/ft with 20% excess = 137 cu-ft

#### EXHIBIT "B"

### TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech "A" 136 F 1879' FSL & 1769' FEL, Sec. 10, 26N, 6W Rio Arriba County, New Mexico Lease No. NM - 079035-A

.3rd stage

Cement through tool at approx. 3500' with 467 sacks class B 35/65 poz + 6% gel (bentonite) + 1/4# /sk cellophane flake followed by 120 sacks class H + 1% CaCl + 1/4# /sk cellophane flake.

**VOLUME CALCULATIONS** 

2842 ft x 0.1732 cu-ft/ft with 70% excess = 837 cu-ft YIELD 1.79 YIELD 1.14 658 ft x 0.1732 cu-ft/ft with 20% excess = 137 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- 450	9.0	50		9	Lime
450-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 March 20, 2001, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 25 days.