UNITED STATES

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

		[6] M	e 10 4	03			
1a. Type of Work	5. Lease Number 0 10 1 23						
DRILL	NM-03551						
1b. Type of Well	6. If Indian, Name of Allottee or Tribe						
GAS		7 ADINI					
2. Operator		7. API Number 30 - 039	- 792	19			
CAULKINS OIL COMPANY							
3. Address & Phone No. of Operator	700	8. Farm or Lease Na					
c/o ROBERT VER			BREECH "E"				
1409 W. Aztec Blvd. # 7 Azte	ec, N. M. 8/410	9. Well Number					
(505) 334-4323	APT 2005	79					
4. Location of Well	0. 2005	15					
	WO OW	Basin Dako					
	S FREEZE TO SE	A s	nip, & Rang	e, Meridian, or Block			
2595 FNL & 1975' FEL	(3) 3)	(2) 1-26N-6W					
14. Distance in Miles from Nearest Town		12. County	./	13. State			
36 miles southeast of Blanco		Rio Arriba		New Mexico			
15. Distance from	16. Acres	in Lease	17. Ac	res Assigned to Well			
Proposed Location				320.49			
To Nearest Property 1975	2560 A	cres		EAST— 320 Acres			
Line or Lease Line				· · · · · · · · · · · · · · · · · · ·			
18. Distance From	19. Propo	sed Depth	20. Ro	otary or Cable Tools			
Proposed Location							
To Nearest Well Drill, 915'	8000.			ROTARY			
Compl., Or Applied							
For on Lease							
21. Elevations (DR, RT, GR, Etc.)		22. Approximate [Date Work V	Will Start			
6970 GR		AUGUST 5	, 2004				
23. Proposed Casing and Cementing Program	m						
EXHIBITS attached as follows							
"A" C-103 & Location and Elev	vation Plat	"F" Drill Rig Layout					
"B" Ten-Point Compliance Pro	ogram	"G" Production Fac	ility Schem	atic			
"C" Blowout Preventer Schem	"H" Acerage dedication plat						
"D" Multi-Point Requirements	"I" Archaeolgical Report						
"E" Vicinity Map - Access Roa	ds						
24. Signed Robert L. Verquer	Title	Superintendent					
Permit No.		Approval Date					
Approved By Manles	Title Title	AFM	·				

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NMOCD

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

This action is subject to technical and procedural review pursuant to 43 CFR 3 and appeal pursuant to 43 CFR 3165.4

ISTRICT I 625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Winerals & Natural Resources Department

Form C-102 Revised August 15, 2000

ISTRICT II 14 South First, Artesia, N.M. 88210

ISTRICT III 000 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

AMENDED REPORT

40 South Pache	co, Santa	Fe, NM 87505										222 1121 0111
		W]	ELL LO	CATION	I AND	ACR	EAGE DED	CAT	ION PL	AT		
30-0	Number	19119		Pool Code	29		0 .		Pool Name			
									1 Number			
Property Co						Perty No REECH						79
246						rator No						Sevation .
38-					-		COMPANY					5970'
					10 Surf	ace I	ocation					
UL or lot no.	Section	Township	Range	Lot idn	Feet from		North/South line	For	et from the	East/	West line	County
G	1	26-N	6-W		259	5	NORTH	<u> </u>	1975	EAST		RIO ARRIBA
			11 Botto	om Hole	Locati	ion If	Different Fr	om S	Surface			
UL or lot no.	Section	Township	Range	Lot lon	Feet from	the	North/South line	Pe	et from the	Bast/	West line	County
	<u> </u>	<u></u>	18 Joint or	L., 4011	¹⁴ Consolid			1	er No.			
Dedicated Acres	•	1/2	- Joint of	milit	Consond	auon Co	de	J Dora	er No.			
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1,0 1220	-						EN APPROVEI					
			OTR. CORNER	9	l N	9-11-3	1 W SEC. CC	RNER				
		FD	OTR. CORNER 3 1/4" B.C BLM 1955	5		640.65	(M) FD 3 1/4	B.C. 1955	1			RTIFICATION for contained herein
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LOT 4		FÓL	3		LOT 2		LOT 1		belief.			
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	·		·					58.6	Signatur	ne .		
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	- 1								Sup	erini	tende	<u>n+</u>
	1		36"31"00"N			- 1			1			
		LONG. 1	07"25'00" W	(NAD 83)	1	1	•		Date	11-05		
					ļ		1975'		Dan			
							QTR. CX FD 3 1/4	PRINER				
	Ŋ	OTE: Typ	ographic	cal Error	on plat	,	FD 3 1/4 BLM 1	B.C. 1957	I .			RTIFICATION
	- 1	Section	1 NOT	Section :					1			on shown on this plat
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Submit 3 Copies To Appropriate District	State of New Mexic	co EX	CHIBIT "A"	Form C-103			
Office District I	Energy, Minerals and Natural	Resources	Crimi i inilia	May 27, 2004			
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO.				
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION D	IVISION	5. Indicate Type of I	eace			
District III	1220 South St. Francis Dr.		STATE	FEE 🗍			
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 8750)5	6. State Oil & Gas L				
1220 S. St. Francis Dr., Santa Fe, NM							
87505 SUNDRY NOTICE	S AND REPORTS ON WELLS	· · · · · · · · · · · · · · · · · · ·	7. Lease Name or U	nit Agreement Name			
(DO NOT USE THIS FORM FOR PROPOSAL DIFFERENT RESERVOIR. USE "APPLICAT	S TO DRILL OR TO DEEPEN OR PLUG			ch "E"			
PROPOSALS.)	w. II [7] o.l		8. Well Number	CII E			
1. Type of Well: Oil Well Ga	as Well 🔼 Other			79			
2. Name of Operator			9. OGRID Number				
Caulkins Oil Company				3824			
3. Address of Operator			10. Pool name or W	ildcat			
1409 W. Aztec Blvd., Suite B7, Aztec	New Mexico 87410		Basin	Dakota			
4. Well Location		·		-			
Unit Letter G: 2595'	feet from the North line and	d <u>1975'</u>	feet from theEastli	ne			
Section 1 Townsh	ip 26N Range 6W	NMPM	County Rio Ar	тiba			
	11. Elevation (Show whether DR, R. 6970 GR	KB, RT, GR,	etc.)				
Pit or Below-grade Tank Application X or C							
Pit type <u>Drilling</u> Depth to Groundwater_	120' Distance from nearest fresh wate	r well <u>2 1/2 m</u>	ile Distance from nearest su	rface water <u>1/2 mile</u>			
Pit Liner Thickness: mil Belov	v-Grade Tank: Volume: bbls;	Construction	Material:				
	propriate Box to Indicate Nat			nta			
12. Check Ap	propriate box to indicate ivati	uic of Notic	c, Report of Other Da	iia			
NOTICE OF INTE	ENTION TO:	SI	JBSEQUENT REPO	ORT OF:			
	_	REMEDIAL W		TERING CASING 🗌			
				AND A			
PULL OR ALTER CASING		CASING/CEM	ENT JOB				
OTHER: Drilling Pit	TXI C	OTHER:		П			
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date							
). SEE RULE 1103. For Multiple (
Construct new below grade drilling pit	along with location.						
Cut and fill diagram attached.							
No liner will be required for this pit due	e to distance from water sources.						
•							
Construction is scheduled to begin, Ma	rcn 2005						
I hereby certify that the information abo	ove is true and complete to the best	of my knowle	edge and balief I forther				
grade tank has been/will be constructed and cl	losed according to NMOCD guidelines	, a general pern	nit 🔲 or an (attached) alternat	ive OCD-approved plan .			
SIGNATURE Robert L. Verquer Type or print name Robert L. Verquer		ndent D	ATE <u>January 12, 2005</u> Telephone No. 505	_ i-334-4323			
E. C. A. H. C.	1						
For State Use Only	M / / CENTRAL	WI & CAC IN	YSPECTOR, DIST. &#</td><td>APR -8 2005</td></tr><tr><td>APPROVED BY:</td><td>TITLE</td><td>UIL & UAS II</td><td>,-</td><td>ATE 0 2005</td></tr><tr><td colspan=6>Conditions of Approval (if any):</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>				

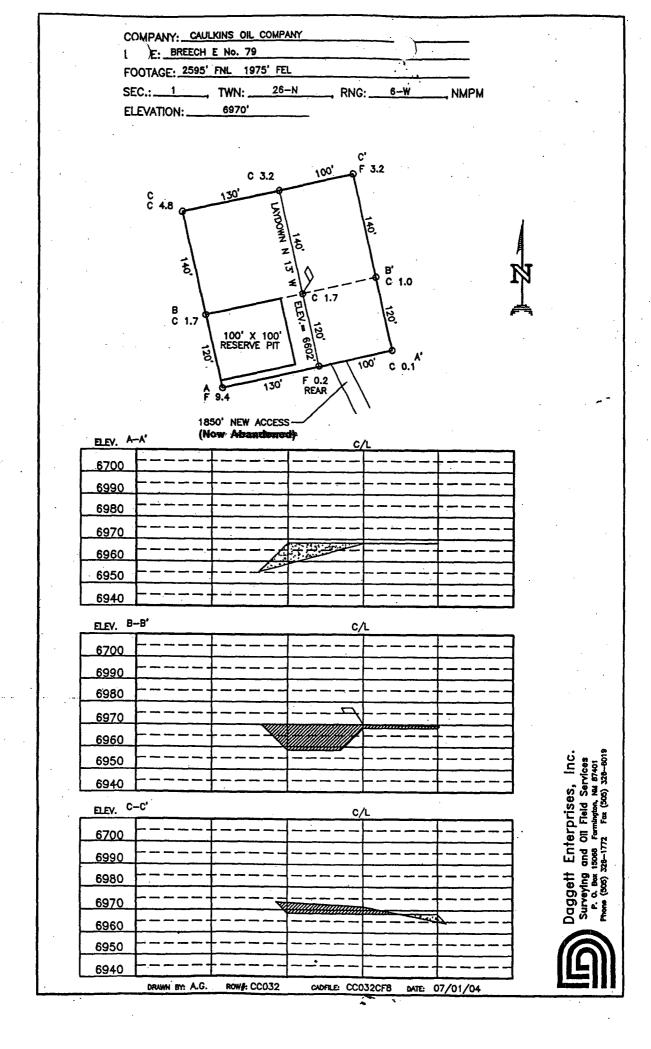


EXHIBIT "B"

TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech "E" 79 2595' FNL & 1975' FEL, Sec. 1, 26N, 6W Rio Arriba County, New Mexico Lease No. NM - 03551

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

Ojo Alamo	2658
Fruitland	3207
Picture Cliffs	3509
Point Lookout	5710
Greenhorn	7670
Dakota	7843
TD	8000

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

Substance	Formation	Depth	Pressure	
Water	Alamo	2816	0	
Gas	Fruitland	3458	200	
Gas	Pictured Cliffs	3532	450	
Gas	Mesa Verde	6026	1200	
Gas	Dakota	7981	1700	

4. The proposed casing program will be as follows:

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

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 4000' and 6000'.

1st stage

Cement through shoe at approx. 8000' 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. 6000' 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 "E" 79
2595' FNL & 1975' FEL, Sec. 1, 26N, 6W
Rio Arriba County, New Mexico
Lease No. NM - 03551

3rd stage

Cement through tool at approx. 4000' with 582 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 3341 ft x 0.1732 cu-ft/ft with 80% excess = 1042 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 1700 psi.

10. Anticipated Starting Date and Duration of the Operations:

The anticipated starting date is set for August 5,2005, 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 flottling head at 1000 psi)

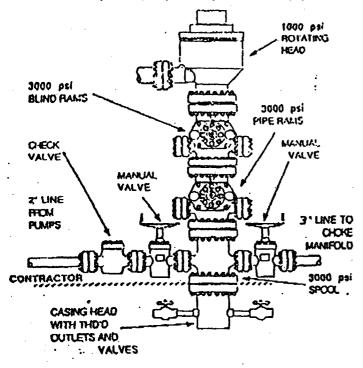


EXHIBIT "B"

