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JAN 1 6 1996 OIL CON. DIV. DIST. 2 I hereby certify that the foregoing is true and correct: Signed <u>Auguman Madonada</u> Title <u>Supervision</u> <u>Dee 1-9-96</u> (This space for formion State office use) (ORIG. SCO.). NOF G. LARA Approved by Conditions of sperved. If any: <u>Sec</u> attached. Conditions of sperved. If any: <u>Sec</u> attached. Conditions of sperved. If any: <u>Sec</u> attached.					
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		WELL NOFederal J-27 #1	
	FORMATIC	DNEddy, NM	<b>PRIDE</b>
	COUNTY	STATE	
		<u>.</u>	RAYMOND MALDONADO SUPERVISOR, P & A OPERATIONS
			BUS. (505)393-9171
			FAX (505)393-3848 MOBILE (505)390-0540
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	13 3/8 28' c	/w 2 yds.	
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		PIPE VOLUMES	HYDROSTATIC PRESSURE
	ERSION FACTORS By TO OBTAIN	$a \cos 45 \times 10^{2}$ in inches = Cu. Ft/Ft	FOR WATER:
Barrels	5.6146 Cubic Feet	0.0407 x I.D. <sup>‡</sup> in inches = Gals./Ft. 0.00097 x I.D. <sup>‡</sup> in inches = Bbls./Ft.	0.434 x Depth in Feet = PSI. FOR OTMER FLUIDS:
Cupic Feet Gallons	7.4806 Gallons 0.1337 Cubic Feet		0.434 x Depth x Sp. Gr. = PSI.
Pounds/gal.	7.4806 Pounds/Cu. Ft.		

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		001404	Mack En	ergy Corporatio	'n	
			WELL NO. Fe	d. J-27 #1		
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			· · · · ·	· · · · ·	SUPERVIS	OR, P & A OPERATIONS
						15)393-9171
						)5)393-3848 (505)390-0540
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	RSION FACTOR			E VOLUMES		DROSTATIC PRESSURE
			0.00545 x LD.	<pre>in inches = Cu. Ft./F in inches = Gals./Ft.</pre>		WATER: x Depth in Feet = PSI.
Barrels Cupic Feet	5.6146 Cubic 7.4806 Gallon		0.040/ X1.D.	in inches = Gais./Ft. in inches = Bols./Ft.		OTHER FLUIDS:
Gallons	0.1337 Cubic	Feet				x Depth x Sp. Gr. = $PSI$ .
Pounds/gal.	7.4806 Pound	s/Cu. Ft.		• • • • • • • • • • • • • • • • • • •		······································

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(Rev. 5/23/94)

## BUREAU OF LAND MANAGEMENT CARLSBAD RESOURCE AREA

## Permanent Abandonment of Wells on Federal Lands

## Conditions of Approval

1. <u>Approval:</u> Plugging operations shall commence within 90 days from the approval date of plugging procedure.

2. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Eddy County call (505)887-6544 ; for wells in Lea County call (505) 393-3612.

3. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. <u>Mud Requirement:</u> Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.

5. <u>Cement Requirement:</u> Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either class "C", for up to 7,500 feet of depth, mixed at 14.8 lbs./gal. with 6.3 gallons of fresh water per sack or class "H", for deeper than 7,500 feet plugs, mixed at 16.4 lbs./gal. with 4.3 gallons of fresh water per sack.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: Well name and number, the name of the operator, the lease serial number, the surveyed location (the quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer; such as metes and bounds).

7. <u>Subsequent Plugging Reporting</u>: Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. Show <u>date</u> well was plugged.

Following the submittal and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval will be developed and furnished to you.