

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. LC - 067739
2. Name of Operator Mack Energy Corporation	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. Box 1359, Artesia, NM 88211 - 1359 (505) 748-1288	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec. 14 T-17-S R-28-E 990 FSL 330 FWL Unit M	8. Well Name and No. Welch Fed #1
	9. API Well No. 30-015-01368
	10. Field and Pool, or Exploratory Area Red Lake ON - 6B - SA
	11. County or Parish, State Eddy, NM

**CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1. Set 5 1/2 C.I.B.P. at 2100' cap with 35' cement.
2. Load hole with mud.
3. Spot 25 sxs cement across base of salt 480'.
4. Spot 25' sxs cement across top of salt 320'.
5. Spot 50' surface plug. Set P&A marker.

RECEIVED

JAN 8 0 1996

OIL CON. DIV.  
DIST. 2

I hereby certify that the foregoing is true and correct

Signed Raymond M. LARA Title Supervisor Date 1-15-96

(This space for Federal or State office use)

(ORIG. SEC.) JOE G. LARA

PETROLEUM ENGINEER

Approved by See attached. Title See attached. Date 1/26/96

Before

COMPANY Mack Energy Corporation  
LEASE & WELL NO. Welch Fed. #1  
FORMATION \_\_\_\_\_  
COUNTY & STATE Eddy, NM



RAYMOND MALDONADO  
SUPERVISOR, P & A OPERATIONS  
BUS. (505)393-9171  
FAX (505)393-3848  
MOBILE (505)390-0540

Top of salt 270'

Base of salt 430'

Perforation 2172' - 2193'

5 1/2 2263' cmt. with 300 sxs cir. to surface.

#### CONVERSION FACTORS

MULTIPLY	By	TO OBTAIN
Barrels	5.6146	Cubic Feet
Cubic Feet	7.4806	Gallons
Gallons	0.1337	Cubic Feet
Pounds/gal.	7.4806	Pounds/Cu. Ft.

#### PIPE VOLUMES

0.00545 x I.D.<sup>2</sup> in inches = Cu. Ft./Ft.  
0.0407 x I.D.<sup>2</sup> in inches = Gals./Ft.  
0.00097 x I.D.<sup>2</sup> in inches = Bbls./Ft.

#### HYDROSTATIC PRESSURE

FOR WATER:  
0.434 x Depth in Feet = PSI.  
FOR OTHER FLUIDS:  
0.434 x Depth x Sp. Gr. = PSI.

After

Spot 50' COMPANY Mack Energy Corporation.  
Surface plug LEASE & WELL NO. Welch Fed. #1  
FORMATION  
COUNTY & STATE Eddy, NM



RAYMOND MALDONADO  
SUPERVISOR, P & A OPERATIONS  
BUS. (505)393-9171  
FAX (505)393-3848  
MOBILE (505)390-0540

Top of salt 270'  
Spot 25 sxs cement

Base of salt 430'  
Spot 25 sxs cement

Perforations 2172' - 2193  
Set 5 1/2 C.I.B.P. at 2150' cap with 35' cement.

5 1/2 2263' cement with 300 sxs cir to surface.

#### CONVERSION FACTORS

MULTIPLY	By	TO OBTAIN
Barrels	5.6146	Cubic Feet
Cubic Feet	7.4806	Gallons
Gallons	0.1337	Cubic Feet
Pounds/gal.	7.4806	Pounds/Cu. Ft.

#### PIPE VOLUMES

0.00545 x I.D.<sup>2</sup> in inches = Cu. Ft./Ft.  
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#### HYDROSTATIC PRESSURE

FOR WATER:  
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FOR OTHER FLUIDS:  
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BUREAU OF LAND MANAGEMENT  
CARLSBAD RESOURCE AREA

Permanent Abandonment of Wells on Federal Lands

Conditions of Approval

1. Approval: Plugging operations shall commence within 90 days from the approval date of plugging procedure.
2. Notification: 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. Blowout Preventers: 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. Mud Requirement: 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. Cement Requirement: 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. Subsequent Plugging Reporting: 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 date 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.