

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS COMMISSION
Lawyer DD

Artesia, NM 88210

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

dst

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-029338 - B
2 Name of Operator Mack Energy Corporation	6. If Indian, Allottee or Tribe Name
3 Address and Telephone No. P.O. Box 960, Artesia, NM 88211-0960 (505)748-1288	7. If Unit or CA, Agreement Designation
4 Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 12-T17S-R30E 660 FNL 660 FWL	8. Well Name and No. Harvard Federal #2
	9. API Well No. 30-015-04124
	10. Field and Pool, or Exploratory Area Square Lake GB SA
	11. County or Parish, State Eddy, NM

Unit D

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

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

13 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. Circ hole w/mud laden fluid.
2. Set cmt plug from 3258' to 50' above all perms.
3. Tag plug @ 2721'.
4. Perf csg 50' below base salt (1350')
5. Squeeze perms w/25sx cmt.
6. Tag plug 1250'.
7. Perf csg 50' below top salt (640').
8. Squeeze perms w/ 25sx cmt.
9. Tag plug 540'.
10. Perf csg @ 60'.
11. Squeeze perf w/cmt. Attempt to circ cmt to surface on all csg.
12. Install dry hole marker and clean location.
13. We will need a workover pit on this location.

RECEIVED

MAY - 9 1995

OIL CON. DIV.
DIST. 2

RECEIVED
MAY 20 10 40 AM '95

14. I hereby certify that the foregoing is true and correct

Signed Crisa D. Carter Title Production Clerk Date 4-14-95

(This space for Federal or State office use)

Approved by (ORIG. SGT.) JOE G. LARA Title PETROLEUM ENGINEER Date 5/5/95

Conditions of approval, if any: See attached. Also, @ step #7, perf csg 50' below 16" csg shoe (231').

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

MACK ENERGY CORPORATION

HARVARD FED #2
SEC 12 T17S R30E 660FNL 660FWL

WELL HISTORY

PBTD: 3268'
TD: 3286'
SP Csg: 10" @681' C/w 50sx
LS Csg: 7" @ 2890' C/w 100sx
T SALT: 590
B SALT: 1300
PERFS: 2950-3222

COMPLETION REPORT

WELL REPORT

- 3-20-74 Rigged up. Lay down rods and tbg. Ran in hole w/6 1/4" bit and 6 drill collars.
- 3-21-74 Reamed 80'. Found scale from 2000' to T.D. Cleaned out to 3230'.
- 3-22-74 Cleaned out to 3284'.
- 3-23-74 Ran 497' of 4 1/2" liner from 2771-3268. Cmt w/200sx Class H w/5# salt, 5# sand, 1/2# flocele per sx. Did not get cmt over top of liner. Ran Temp Survey. Found top of cmt at 3000'.
- 3-26-74 Ran tbg in hole. Shut down.
- 4-17-74 Rigged up. Pulled tbg. ran Tie in log. Perfed csg from 2900-01 w/4 shots for squeeze. Squeezed w/50sx Class H cmt.

MACK ENERGY CORPORATION

HARVARD FED #2

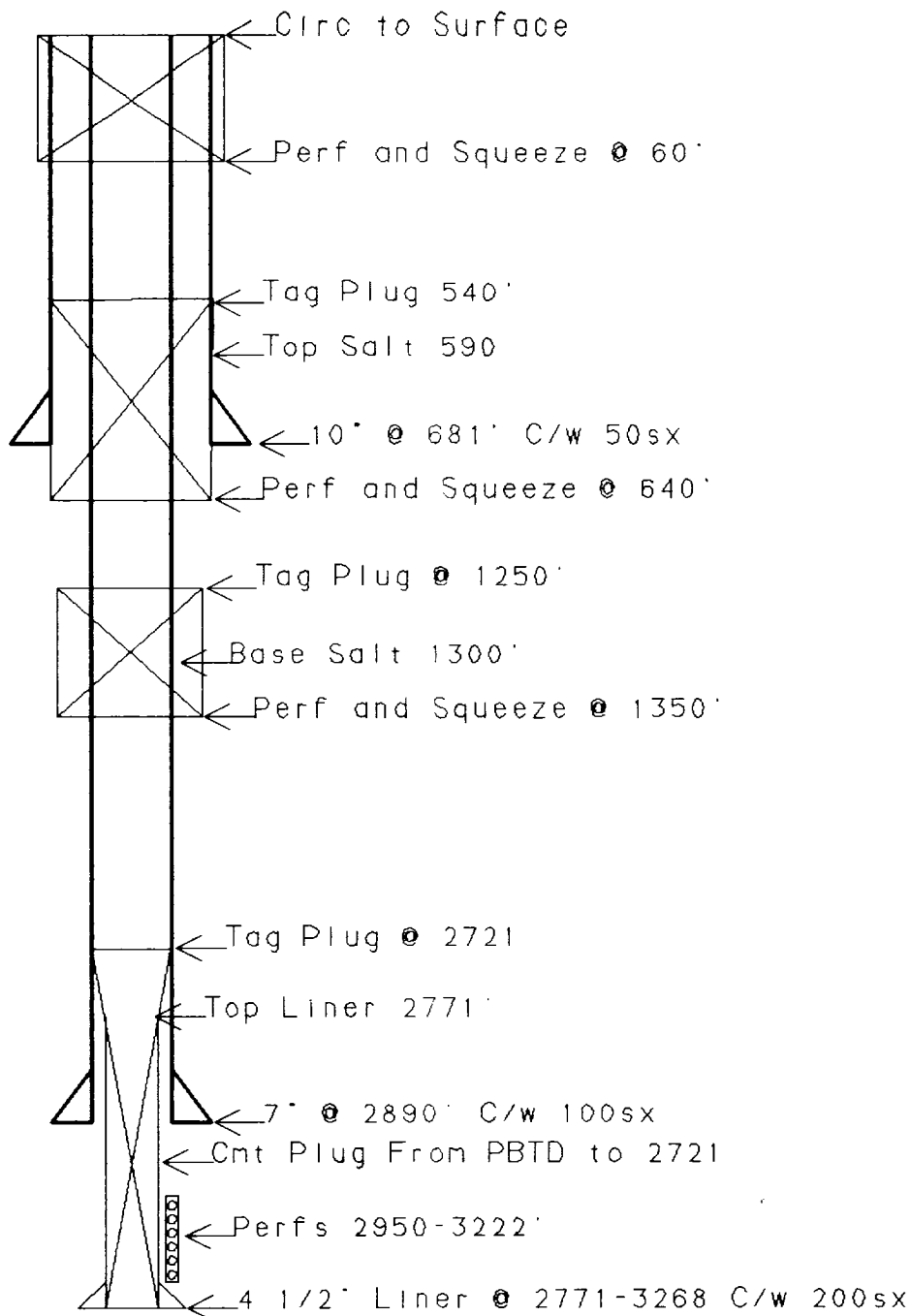
SEC 12 T17S R30E 660FNL 660FWL

4-18-74 Clean out cmt to T.D. Perf csg from 3208-22,3046-60,2950-56.

4-19-74 Acidized perms w/500 gals each. Ran in hole w/pkr and tbg and set at 2856'.

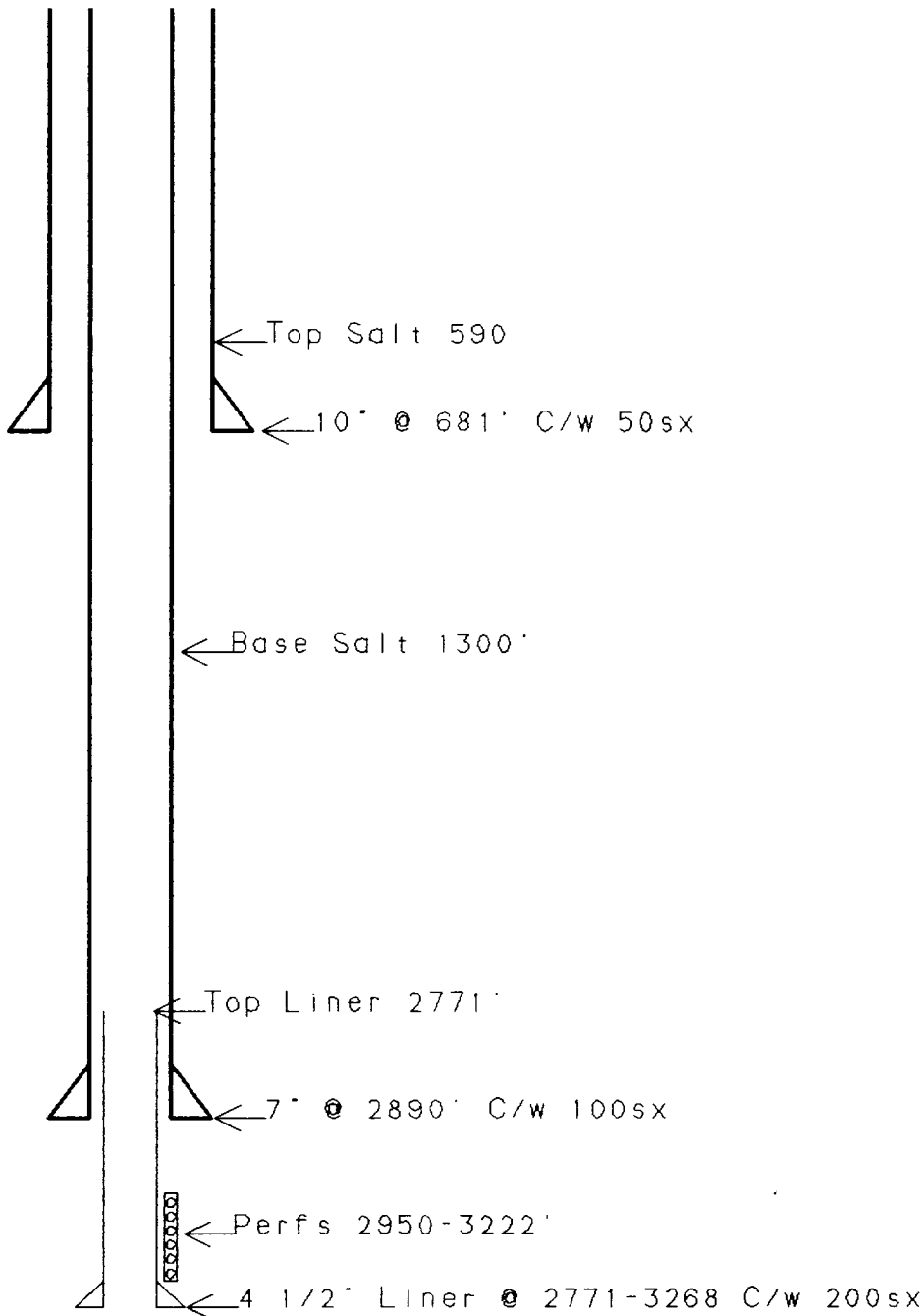
3-31-95 PROPOSE TO PLUG AND ABANDON AS FOLLOWS:

- 1 Circ hole w/mud laden fluid
- 2 Set cmt plug from 3258 to 50' above all perms
- 3 Tag plug @ 2721'
- 4 Perf csg 50' below base salt. (1350')
- 5 Squeeze perms w/25sx cmt
- 6 Tag plug 1250'
- 7 Perf csg 50' below top salt (640')
- 8 Squeeze perms w/25sx cmt
- 9 Tag plug 540'
- 10 Perf csg @ 60'
- 11 Squeeze perf w/cmt. Attempt to Circ cmt to surface on all csg.
- 12 Install dry hole marker and clean location
- 13 We will need a workover pit on this location



MACK ENERGY CORPORATION
 WELL DIAGRAM
 HARVARD FEDERAL #2
 SEC 12 T17S R30E
 660FNL 660FWL

WELL DIAGRAM AFTER
 PREPARE BY
 ROBERT CHASE



MACK ENERGY CORPORATION
 WELL DIAGRAM
 HARVARD FEDERAL #2
 SEC 12 T17S R30E
 660FNL 660FWL

WELL DIAGRAM BEFORE
 PREPARE BY
 ROBERT CHASE

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.