

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OIL CONS COMMISSION

Lawer DD

Artesia, NM 88210

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

LC-029338-B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Harvard Federal #4

9. API Well No.

30-015-04118

10. Field and Pool, or Exploratory Area

Square Lake GB SA

11. County or Parish, State

Eddy, NM

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

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Mack Energy Corporation

3. Address and Telephone No.

P.O. Box 960, Artesia, NM 88211-0960 (505)748-1288

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 11-T17S-R30E  
1980 FNL 330 FEL

Unit H

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ 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. Spot cmt plug from PBTD to 2662'.
2. Tag plug 2662'.
3. Circ hole w/mud laden fluid.
4. Perf csg 50' below base salt (1310').
5. Squeeze perfs w/25sx cmt.
6. Tag plug @ 1210'.
7. Perf csg 50' below 10" shoe (708').
8. Squeeze perfs w/25sx cmt.
9. Tag plug 515'.
10. Perf csg @ 60'.
11. Squeeze perfs w/cmt. Attempt to circ all csg to surface.
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

APR 20 10 40 AM '95

RECEIVED

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

Signed Crissa D. Carter

Title Production Clerk

Date 4-14-95

(This space for Federal or State office use)

(ORIG. SCD.) JOE G. LARA

Approved by  
Conditions of approval, if any: See attached

Title PETROLEUM ENGINEER

Date 5/5/95

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.

\*See Instruction on Reverse Side

# MACK ENERGY CORPORATION

HARVARD #4

SEC 11 T17S R30E 1980FNL 330FEL

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## WELL HISTORY

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ELEV: 3765  
PBTD: 3214'  
TD: 3225  
SP Csg: 10" @658' C/w 50sx  
INT. Csg: 7" @ 2800' C/w 100sx  
LS Csg: 4 1/2" liner @ 2712-3214  
T SALT: 565'  
B SALT: 1260'  
PERFS: 2896-3174

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## COMPLETION REPORT

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## WELL REPORT

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3-13-74 Rigged up. Laid down rods. tag bottom and pull tubing. Bottom  
@ 3217'

3-14-74 Ran Logs

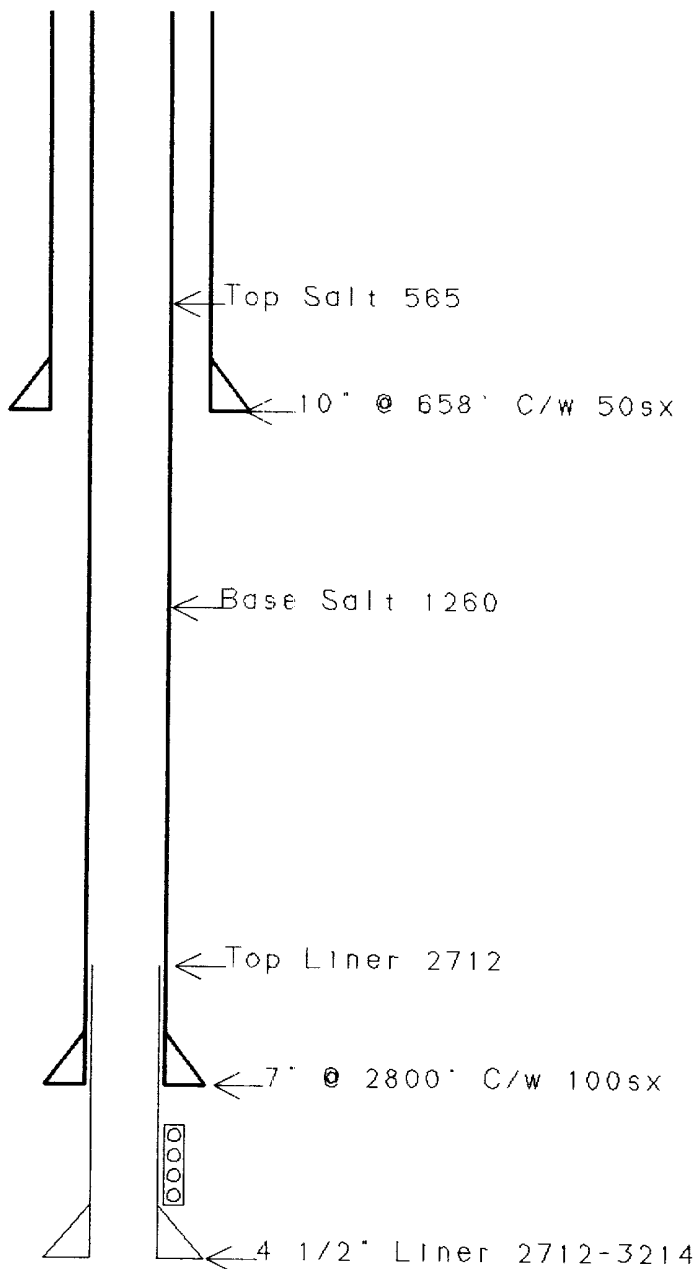
3-18-74 Clean out to 3220'

# MACK ENERGY CORPORATION

HARVARD #4

SEC 11 T17S R30E 1980FNL 330FEL

- 3-30-74 Ran 13 Jts 4 1/2" liner (502) from 2717-3219. Cmt w/100sx  
Class H w/5# salt, 5# sand 3# floccile per sack. TOC BY SURVEY  
2975'.
- 4-10-74 Perfed csg at 2850 and squeezed liner w/50sx Cmt.
- 4-11-74 Drilled out cmt.
- 4-12-74 Perforated csg at 3172-74, 3164-68, 2996-3002, 2904-06, 2896-2900.  
Treated each zone w/500 gals acid. Ran in hole w/johnston 101-s  
tension pkr set at 2800' w/10 pts. Put well back on production.
- 4-11-95 PROPOSE TO PLUG AND ABANDON AS FOLLOWS:
- 1 Spot Cmt Plug From PBTD to 2662'
  - 2 Tag Plug 2662'
  - 3 Circ Hole w/Mud laden fluid.
  - 4 Perf Csg 50' below base salt (1310)
  - 5 Squeeze perfs w/25sx Cmt
  - 6 Tag plug @ 1210
  - 7 Perf csg 50' below 10" shoe (708')
  - 8 Squeeze perfs w/25sx cmt
  - 9 Tag Plug 515'
  - 10 Perf Csg @60'
  - 11 Squeeze perfs w/cmt. Attempt to circ all csg to surface.
  - 12 Install dry hole marker and clean location
  - 13 We will need a workover pit <sup>on</sup> and this location.



MACK ENERGY CORPORATION

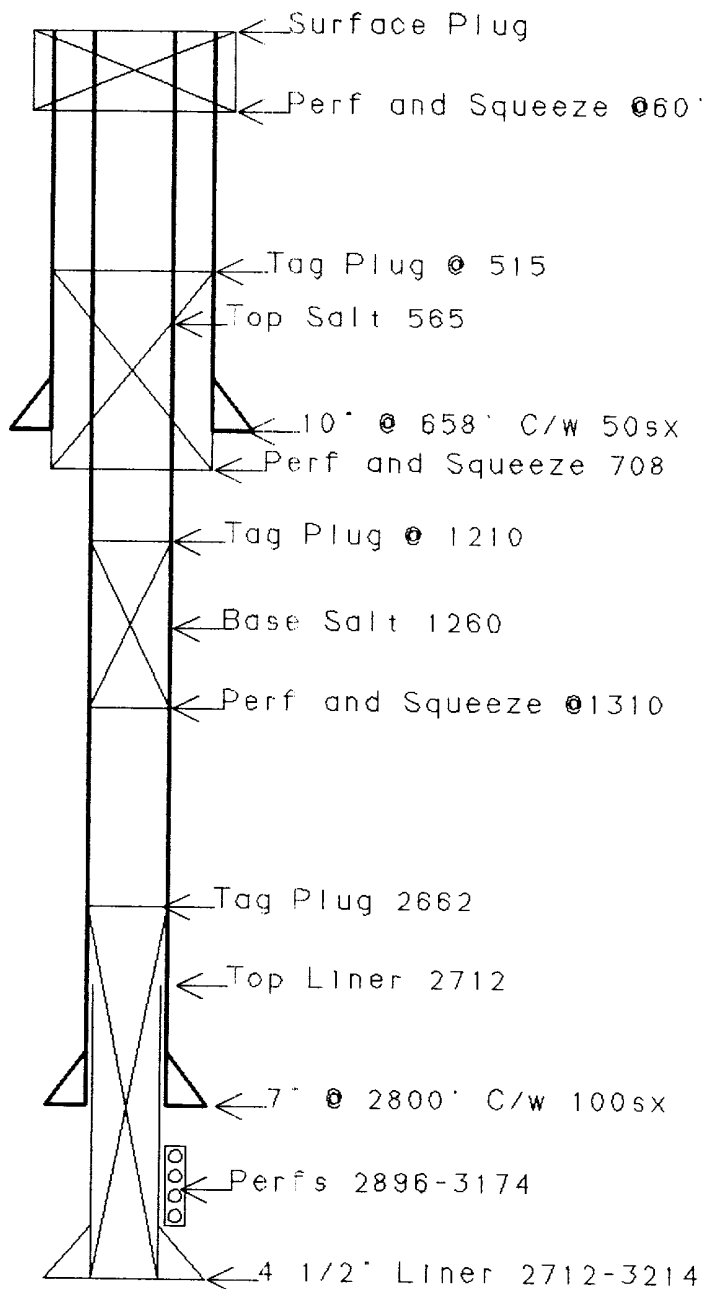
WELL DIAGRAM

HARVARD FEDERAL #4

SEC 11 T17S R30E

1980FNL 330FEL

WELL DIAGRAM BEFORE  
PREPARE BY  
ROBERT CHASE



MACK ENERGY CORPORATION  
 WELL DIAGRAM  
 HARVARD FEDERAL #4  
 SEC 11 T17S R30E  
 1980FNL 330FEL

WELL DIAGRAM AFTER  
 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.