

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE*
(Other Instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

dst

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL Gas Well OTHER SINGLE ZONE MULTIPLE ZONE

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 OR WELL (Report location clearly and in accordance with any state requirement.)*
 At surface **330 FSL 990 FWL**
 At proposed prod. zone **330 FSL 990 FWL**

5. LEASE DESIGNATION AND SERIAL NO.
LC-029342-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARMOR LEASE NAME, WELL NO
Federal X #4

9. API WELL NO
30-015-04248

10. FIELD AND POOL, OR WILDCAT
Grayburg Jcksn, SR, QN, GB, SA

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 21-T17S-R30E

12. COUNTY OR PARISH 13. STATE
Eddy NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
1/4 miles South of Loco Hills, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **330**

16. NO. OF ACRES IN LEASE **120**

17. NO OF ACRES IN LEASE TO THIS WELL **40**

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT. **660**

19. PROPOSED DEPTH **4900**

20. ROTARY OR CABLE TOOLS **Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3633 DF

22. APPROX. DATE WORK WILL START*
5/1/97

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24	525	50
7 7/8	7	20	1774	50
6 1/8	4 1/2, J-55	11.6	4900	Circ

Mack Energy Proposes to deepen well from PBSD of 1850' to 4900', Log well and run 4 1/2 J-55 liner from 4900' to Surface and cement liner from 4900' to 2000'. Perf liner and test for commercial production. Mack Energy requests a ~~workover~~ *reserve well* pit for this proposed work.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths Give blowout preventer program, if any.

24. SIGNED *Cecilia D. Carter* TITLE Production Clerk DATE 1/29/97

(This space for Federal or State office use)
 PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY (ORIG. SGD.) ARMANDO A. LOPEZ TITLE **PETROLEUM ENGINEER** DATE 2/4/97

*See Instructions On Reverse Side