

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

*Copy to 87*

5. LEASE DESIGNATION AND SERIAL NO.  
LC-031844

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Fren Oil Company

9. WELL NO.  
18

10. FIELD AND POOL, OR WILDCAT  
~~Field Lake Abo~~

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
19-17S-31E

12. COUNTY OR PARISH  
Eddy

13. STATE  
N.M.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER   
 SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
Atlantic Richfield Company ✓

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3. ADDRESS OF OPERATOR  
P. O. Box 1710, Hobbs, New Mexico 88240

SEP 14 1978

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
1650' FSL & 3530' FEL (Unit letter K)  
 At proposed prod. zone  
as above

O. C. C.  
ARTESIA, OFFICE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL  
40

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

19. PROPOSED DEPTH  
3240'

20. ROTARY OR CABLE TOOLS  
Completion Rig

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
3636' GR

22. APPROX. DATE WORK WILL START\*  
9/11/78

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
No change in casing				
Abo abandonment reported separately on Form 9-331.				
			3000 - 3100	

Propose to recomplate this well in the Grayburg Jackson Queen SA in the following manner:

1. Rig up, run GR-CBL & csg inspection log.
2. If logs determine cmt across Grayburg and Fren zones is OK, then set CIBP @ 3250' & cap w/cmt. If cmt not OK, then perf & cmt w/amt to be determined to cover across Grayburg & Fren zones.
3. Drill out cmt if necessary. Perforate as determined from logs, acidize w/1000 gals 15% HCLNE & put on production.

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U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 [Signature] TITLE Dist. Drlg. Supt. DATE 9/8/78

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE 9-11-78

APPROVED BY [Signature] TITLE ACTING DISTRICT ENGINEER DATE SEP 13 1978

CONDITIONS OF APPROVAL, IF ANY: