

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.  
0560408

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Aztec Federal "14" Fee

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Lea (Devonian)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 14, T-20-S, R-34E

12. COUNTY OR PARISH  
Lea

13. STATE  
New Mexico

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  
 Southwestern Natural Gas, Inc.

3. ADDRESS OF OPERATOR  
 900 Building of the Southwest Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 1980' FSL and 1830' FEL

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 21 miles Northwest, Eunice, New Mexico

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  
 160

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 160

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

19. PROPOSED DEPTH  
 14500

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 3648 GL

22. APPROX. DATE WORK WILL START\*  
 December 1, 1968

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	310'	To circulate
12 1/4"	9 5/8"	38#	5250'	Cement back to base salt
8 3/4"	7"	24#	T.D.	

1. Drill 17 1/2" hole to 310' (Top Anhydrite) Cement 13 3/8, 48# casing to surface, (Circulate)
2. Test casing to 1000 psi for 30 minutes.
3. Drill 12 1/4" hole to 5200'. Cement 9 5/8" casing 38# to 5250' with DV packer above possible loss circulation zones. Two stage cement with sufficient cement on second stage to fill above DV packer to base of salt.
4. Ran temperature survey. Pressure test DV tool to 1000 psi for 30 minutes. Drill out and test 9 5/8" casing to 1000# for 30 minutes.
5. Drill 8 3/4" hole to a Total Depth of approximately 14,500'. Ran and cemented 7" casing 24# with sufficient cement to fill annulus above any producing Horizon.
6. Proper blow-out preventions will be used of sufficient capacity to meet all normal down hole conditions.

NOTIFY USGS IN SUFFICIENT TIME TO  
 WITNESS CEMENTING THE 2 1/2" CASING.

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 F. L. Donald TITLE Chief Geologist DATE 11/21/68

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

ED  
 DEC 8 1968  
 NOT ENGINEER