

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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  
 AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR  
 P.O. DRAWER A LEVELLAND, TX 79336

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface 2310' FNL & 1980' FWL (Unit F, Sec.33)  
 At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.  
 LC 031736-b

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Gillully "B" Federal

9. WELL NO.  
 22

10. FIELD AND POOL, OR WILDCAT  
 Drinkard-Wildcat

11. SEC., T., R. M., OR BLK. AND SURVEY OR AREA  
 33-20-37

12. COUNTY OR PARISH 13. STATE  
 Lea NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 7 miles south of Monument, New Mexico

15. 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 360  
 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 7000'  
 20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 3540.5 GR  
 22. APPROX. DATE WORK WILL START\*  
 November 1, 1978

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#	1300'	Circ. to surface
12 1/4"	8-5/8"	24#	3200'	Circ. to surface
7-7/8"	5 1/2"	14#	7000'	Tie back to 8-5/8" casing

After reaching TD, logs will be run and all formations evaluated. Perforate and/or stimulate as necessary in attempting commercial production.

MUD 0'-1300' Native mud & fresh water  
 1300'-3200' Native mud & brine water  
 3200'-TD 7000' Brine water, native mud & sufficient commercial mud to maintain good hole conditions.

**DRILLING OPERATIONS AUTHORIZED ARE  
 SUBJECT TO COMPLIANCE WITH ATTACHED  
 "GENERAL REQUIREMENTS"**

BOP program attached.  
 Archaeological reconnaissance attached.

Gas dedicated to Northern Natural Gas Company.

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 D.R. Couch TITLE Admin. Analyst (SG) DATE 10-23-78

(This space for Federal or State office use)

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

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

- CONDITIONS OF APPROVAL, IF ANY:
- 0+5 - USGS-Hobbs
  - 1 - Reg. 0
  - 1 - Suspense
  - 1 - RC

\*See Instructions On Reverse Side

