

RECEIVED  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK  
a. TYPE OF WELL  
DRILL ☒ DEEPEN ☐ PLUG BACK ☐  
b. TYPE OF WELL  
GAS ☐ OIL ☐ OTHER ☒ SINGLE ZONE ☐ MULTIPLE ZONE ☐  
2. NAME OF OPERATOR  
Santa Fe Energy Operating Partners, L.P.  
3. ADDRESS OF OPERATOR  
550 W. Texas, Suite 1330, Midland, TX 79701  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface  
1980' FWL & 1980' FNL, Section 27, T-21S, R-32E  
At proposed prod. zone  
Same  
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
36 miles NW of Jal, NM  
15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)  
1980'  
16. NO. OF ACRES IN LEASE  
320  
17. NO. OF ACRES ASSIGNED  
TO THIS WELL  
320  
18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.  
N/A  
19. PROPOSED DEPTH  
14,800'  
20. ROTARY OR CABLE TOOLS  
Rotary  
21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
3698' GR  
Capitan Controlled Water Basin  
22. APPROX. DATE WORK WILL START\*  
12-01-90

5. LEASE DESIGNATION AND SERIAL NO.  
NM-1982 22810  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Bilbrey 27A Federal  
9. WELL NO.  
1  
10. FIELD AND POOL, OR WILDCAT  
Und. Bilbrey Morrow  
11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
Sec. 27, T-21S, R-32E  
12. COUNTY OR PARISH  
Lea  
13. STATE  
NM

23. PROPOSED CASING AND CEMENTING PROGRAM R-111-P Potash Secretary's Potash

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48.0	650'	1175 cu.ft. circulated
12 1/4"	9 5/8"	40.0	4,600'	3892 cu.ft. circulated
8 3/4"	7"	26.0 & 29.0	12,000'	1200 cu.ft.
6"	4 1/2"	13.5	11,700-14,800'	600 cu.ft.

13 3/8" casing will be cemented with sufficient Class "C" cement containing 4% gel, 1/4#/sk cellofane flakes to circulate to surface when followed by 330 cu.ft. of Class "C" with 2% Calcium Chloride.

9 5/8" casing to be cemented with sufficient lite cement to circulate to surface when followed by 262 cu.ft. Class "C" containing 2% Calcium Chloride.

7" casing to be cemented with 50/50 Class "H" Poz containing 6# salt per sack and 0.6% fluid loss reducer to bring cement to 8000'.

4 1/2" casing to be cemented with sufficient Class "H" cement containing 0.6% fluid loss reducer, 0.4% friction reducer, 0.6% gas block agent and 5#/sk KCl to fill to 300' above liner top. All cement to weigh at least 1 ppg more than mud weight used to drill the interval. ACCORDING TO API SPECIFICATIONS.

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 Danell Roberts TITLE Senior Drilling Engineer DATE 11-19-90

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 12.5.90

CONDITIONS OF APPROVAL, IF ANY:  
APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS

\*See Instructions On Reverse Side