

PROPERTY NO. 13461  
P. CODE 83280  
E. DATE 10/6/94  
API NO. 30-025 32694

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3. LEASE DESIGNATION AND SERIAL NO.  
LC-029512-C

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Sinagua 18 Fed Com

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Quail Ridge (Morrow)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 18, T-20S, R-34E

12. COUNTY OR PARISH

Lea

13. STATE

NM

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  
Santa Fe Energy Operating Partners, L.P.

3. ADDRESS OF OPERATOR  
550 W. Texas, Suite 1330, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface (J), 2041 FSL and 2171 FEL, Sec. 18, T-20S, R-34E  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
8 miles NE from Halfway Bar, New Mexico

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any) 1637'

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 402'

21. ELEVATIONS (Show whether DP, RT, GR, etc.)  
3629.0' GR

16. NO. OF ACRES IN LEASE  
40

19. PROPOSED DEPTH  
13,700'

17. NO. OF ACRES ASSIGNED TO THIS WELL  
320

20. ROTARY OR CABLE TOOLS  
Rotary

22. APPROX. DATE WORK WILL START\*  
June 1, 1994

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	94.0	450'	750 sx to circulate
17-1/2"	13-3/8"	68.0	3,300'	2600 sx to circulate
11"	8-5/8"	32.0	5,200'	TOC @ 3100' (200' inside 13-3/8
7-7/8"	5-1/2"	17.0	13,700'	Stage collar @ 10,000'. TOC @ 4800'

We propose to drill to a depth sufficient to test the Morrow formation for gas. If productive, 5-1/2" casing will be cemented at TD. If non-productive, the well will be plugged and abandoned in a manner consistent with Federal Regulations. Specific programs as per Onshore Oil and Gas Order No. 1 are outlined in the following attachments:

Drilling Program

- Exhibit A - Operations Plan
- Exhibit B - BOP and Choke Schematic
- Exhibit C - Drilling Fluids Program
- Exhibit D - Auxiliary Equipment

- Exhibit E - Topo Map of Location
- Exhibit F - Plat Showing Existing Wells
- Exhibit G - Well Site Layout
- H<sub>2</sub>S Drilling Plan

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.

SIGNED Daniel Polito TITLE Div. Drilling Engineer DATE April 24, 1994  
(This space for Federal or State office use)

PERMIT NO. 151 APPROVAL DATE Oct 1994  
APPROVED BY 151 TITLE Asst. Dir. DATE SEP 12 1994  
CONDITIONS OF APPROVAL, IF ANY:

Approval Subject to  
General Regulations and  
Special Regulations

\*See Instructions On Reverse Side