

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

CSF

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

1980' FNL & 660' FWL, Sec. 34, T-23S, R-31E, D.

At proposed prod. zone

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

Twenty five miles East of Loving, New Mexico

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

640

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

15,220'

20. ROTARY OR CABLE TOOLS

N/A

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

GL 3423.7'

KB 3449.7'

22. APPROX. DATE WORK WILL START\*

1-9-90

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	54.5	651	750 SX
12-1/4	9-5/8	40	4320	1900 SX
8-1/2	7	26 & 29	12,000	1450 SX
6	4-1/2	13.5	11,604'-15,220'	525 SX

PROPOSED WORK: Plug back the existing Morrow perfs (14,484-90') by setting a CIBP at 14,430' on WL and dump bailing 50' of cement (Class H Neat) on top. A recompletion attempt will be made in an Atoka carbonate zone from 13,716'-39' by perforating with tubing conveyed guns (Vann type) and if necessary, acidizing with 4500 gals 20% NEFE HCl.

The existing Morrow zone has depleted and is capable of producing only 69 MCFGPD on intermittent flow. Any remedial work such as compression or stimulation cannot be justified based on remaining reserves. The proposed Atoka perfs represent the first zone uphole with commercial potential. A DST over this zone yielded 839 MCFD and indicated a reservoir pressure of 7200 psi.

The BOP's will be hydraulic and have remote controls.

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 C. Robert Winkles TITLE Sr. Production Engineer DATE January 9, 1990

(This space for Federal or State office use)

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

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 1-15-91

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side