

DEPARTMENT
BUREAU

OUT CARD

104 972

APPLICATION FOR PERM

BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

OCT

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

500 W. Illinois, Suite 500, Midland, TX 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

900' FNL & 1980' FWL, Sec. 9, T-23S, R-31E

At proposed prod. zone

660' FSL & 1980' FWL, Sec. 4, T-23S, R-31E

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

40 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)

660'

18. DISTANCE FROM PROPOSED*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

19. PROPOSED DEPTH

15,000'

20. ROTARY OR CABLE TOOLS

Rotary

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

3346.4' GR

22. APPROX. DATE WORK WILL START*

10-15-90

23.

PROPOSED CASING AND CEMENTING PROGRAM [Secretary's Potash] [Rill-P Potash]

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48.0	600'	1175 cu.ft. <u>circulated</u> WITNESS
12 1/4"	9 5/8"	40.0	4,150'	3892 cu.ft. <u>circulated</u> WITNESS
8 3/4"	7"	26.0	11,800' 12,000'	1200 cu.ft. (see slips)
6	4 1/2"	13.5	12,000' 15,000'	660 cu.ft.

Carlsbad Controlled Water Basin

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 8,000'.

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.

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

Samuel Roberts

TITLE Senior Drilling Engineer

DATE September 28, 1990

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

Tom Huer

TITLE

Acting AREA MANAGER
CARLSBAD RESOURCE AREA

DATE

10-15-90

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED

*See Instructions On Reverse Side

Nos REC'D: 7/20/90