

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

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

At surface

1780' FNL, 330' FNL, Section 34, T-22S, R-28E

At proposed prod. zone

Same

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

3 miles east of Carlsbad, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

330'

(Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*

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

N/A

16. NO. OF ACRES IN LEASE

40

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

19. PROPOSED DEPTH

4100'

20. ROTARY OR CABLE TOOLS

Rotary

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

3089' → 3068' GR

22. APPROX. DATE WORK WILL START*

As soon as possible

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0	450'	373 cu.ft. circulated
7 7/8	4 1/2	10.5	4100'	1261 cu. ft. Circulated

8 5/8" casing will be cemented with 373 cu.ft. Class "C" with 2% Calcium Chloride.

4 1/2" casing to be cemented with sufficient lite cement to circulate to surface
when followed by 262 cu.ft. Class "C" containing 2% Calcium Chloride.

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

Michael R. Burton

TITLE

District Drilling Engineer

DATE

9-29-88

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

Sandra Poretti

TITLE

DATE

10-28-88

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-162
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

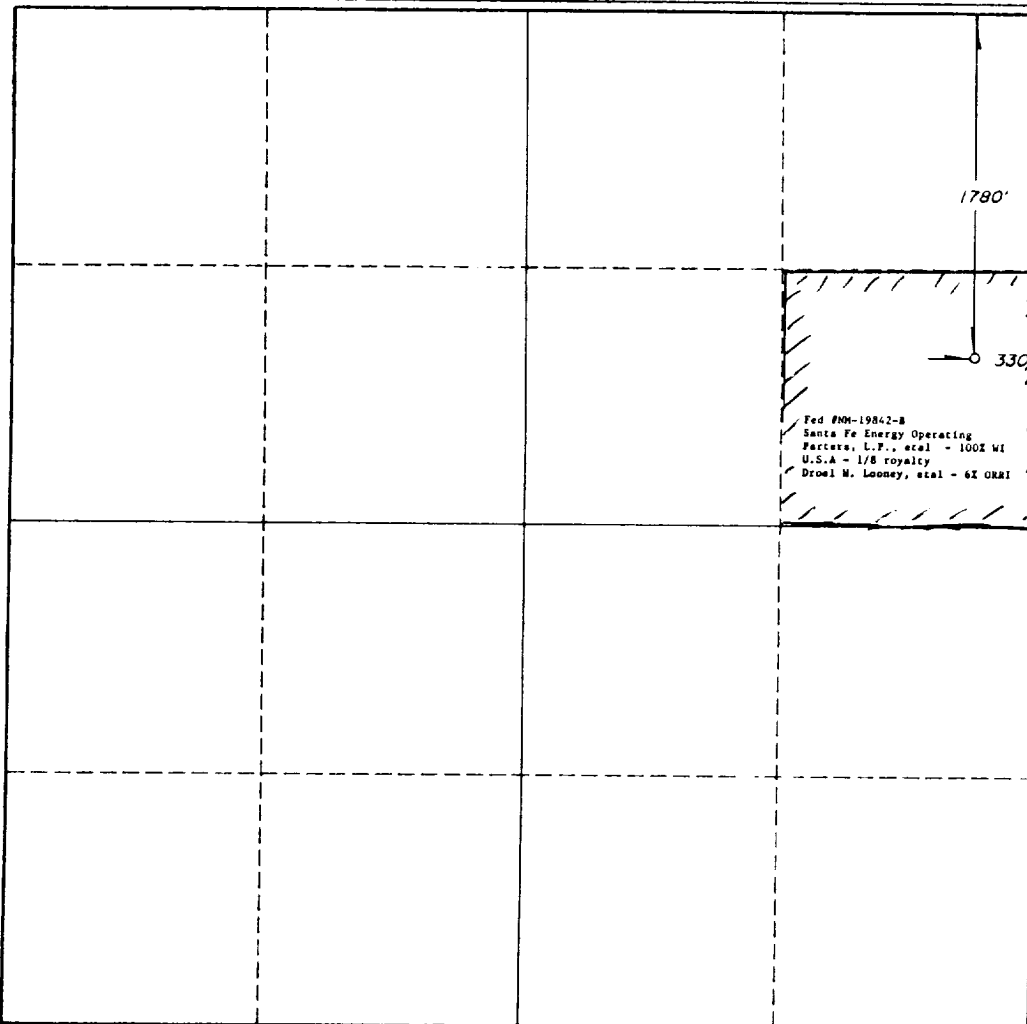
Operator SANTA FE ENRGY OPERATING PARTNERS, L. P.		Lease NORTHEAST LOVING "34" FEDERAL		Well No. 2
Unit Letter H	Section 34	Township 22-S	Range 28-E	County EDDY
Actual Footage Location of Well: 1780 feet from the NORTH line and 330 feet from the EAST line				
Ground Level Elev. 3068'	Producing Formation Delaware	Pool Wildcat DE LAURENCE	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Michael R. Burton

Name
Michael R. Burton
Position
District Drilling Engineer
Company
Santa Fe Energy Operating Partners, L.P.
Date
September 29, 1988

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
SEPTEMBER 15, 1988

Registered Professional Engineer and/or Land Surveyor

Certificate No.

6689

PROPOSED BOPE AND CHOKE ARRANGEMENT

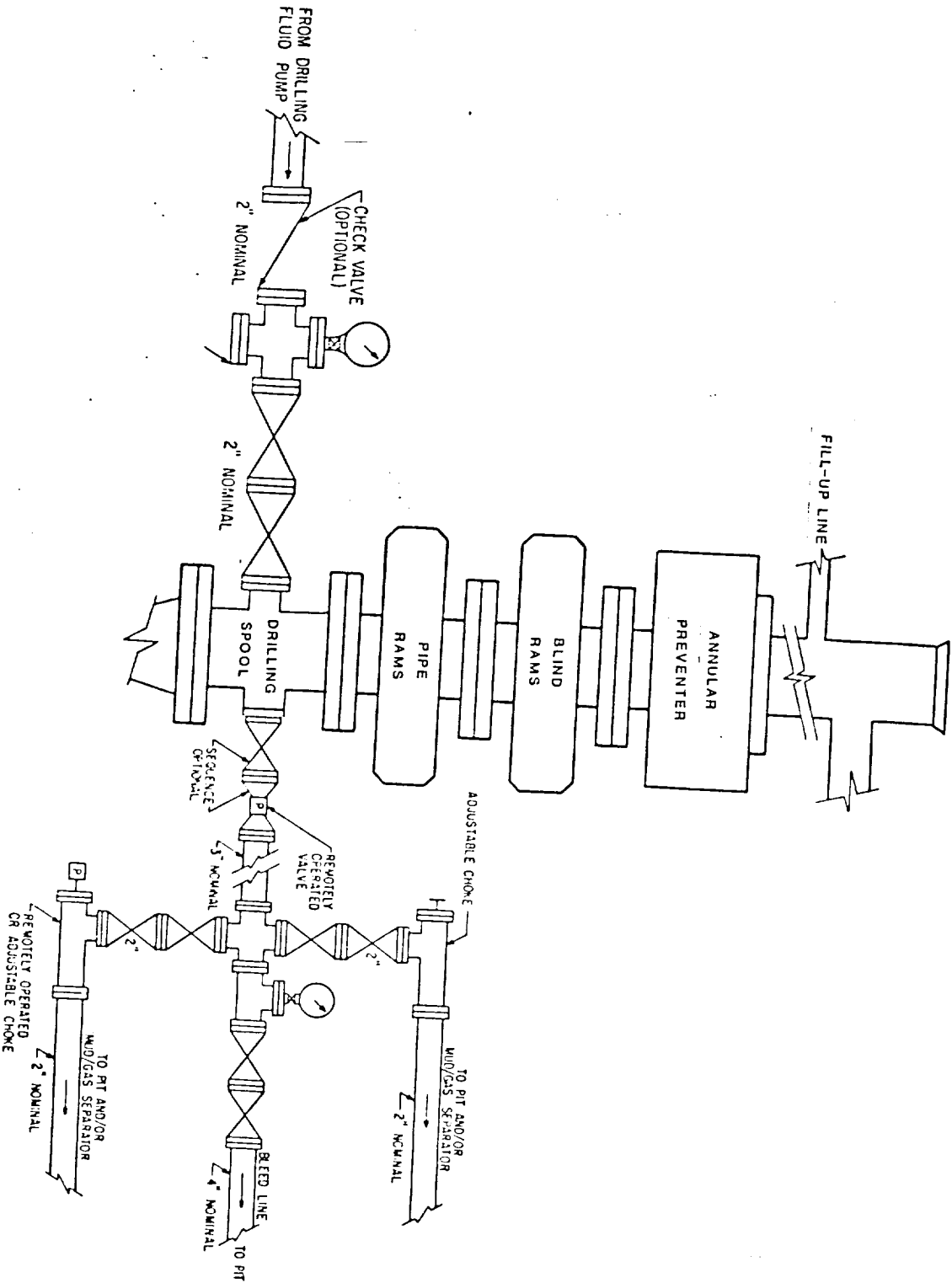


EXHIBIT B

APPLICATION FOR DRILLING
SANTA FE ENERGY OPERATING PARTNERS, L.P.
Northeast Loving 34 Federal No. 2

In conjunction with form 9-331C, Application to Drill subject well, Santa Fe Energy Operating Partners, L.P., submits the following ten items of pertinent information in accordance with BLM requirements.

1. The geologic surface formation is sand.
2. The estimated tops of geologic markers are as follows:

Delaware	2742'
Cherry Canyon	3880'
TD	4100'

3. The estimated depth at which water, oil, or gas formations are expected to be encountered:

Water	Water is not expected to be encountered.
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Oil or Gas	Cherry Canyon - 3880-4100'
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4. Proposed casing program: See Form 9-331C and Exhibit A.
5. Pressure control Equipment: See Form 9-331C and Exhibit B.
6. Drilling Fluid Program: See Exhibit C.
7. Auxiliary Equipment: See Exhibit D.
8. Testing, Logging and Coring Programs:

Drill Stem Test (all DST's to be justified by a valid show of oil or gas):

Cherry Canyon	3880-4100'
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Logging:

Logging from 4100' - TD:
Dual Laterolog with Gamma Ray
Neutron-Density with Gamma Ray
Computer Process Log over selected intervals

Application for Drilling
Northeast Loving 34 Federal No. 2
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9. Abnormally high pressured zones are not expected at this location.
10. Starting Date: As soon as possible.

Michael R. Burton
9-29-88

MRB:dw-792
Attachments

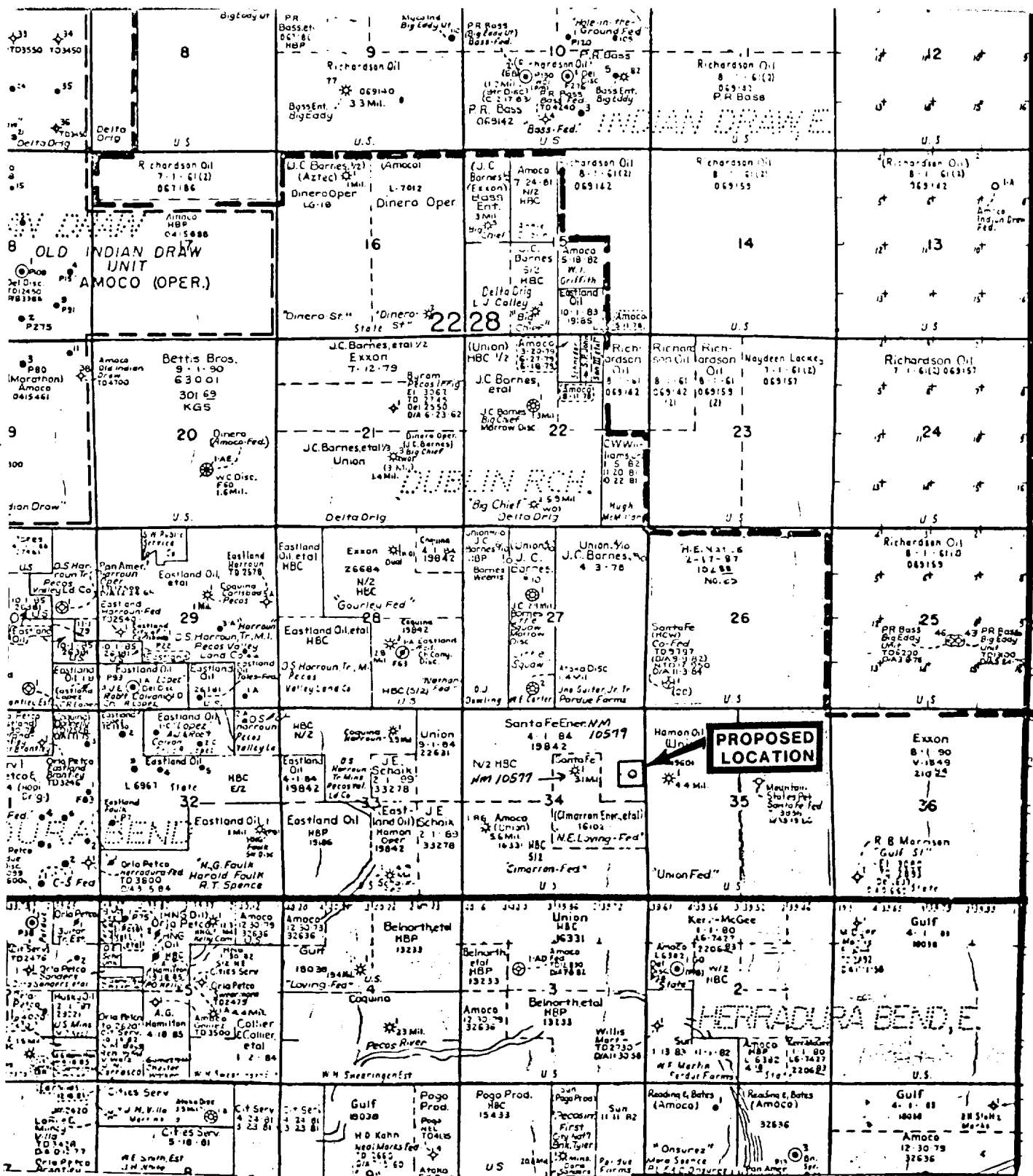


EXHIBIT G
WELL SITE LAYOUT

SANTA FE ENERGY OPERATING PARTNERS, LP.
NORTHEAST LOVING "34" FEDERAL No. 2
1980" FNL, 330' FEL SECTION 34, T 22 S, R 28 E
EDDY CO., NEW MEXICO

