

30-025-30643

Form 3160-3
(November 1983)
(formerly 9-331C)

ROSA J. L. DISTRICT

SUB IN TRIPPLICATE
(Other Instructions on
Form Approved)

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

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COMMISSION RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	
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 1980' FSL & 660' FEL of Sec. 14, 18S, 32E At proposed prod. zone		5. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 25 miles NE of Carlsbad, New Mexico	
6. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)		7. NO. OF ACRES IN LEASE	
660'		40	
8. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		9. PROPOSED DEPTH	
1320'		10,200'	
10. ELEVATIONS (Show whether DF, RT, GR, etc.) 3812.7'		11. ROTARY OR CABLE TOOLS Rotary	
12. APPROX. DATE WORK WILL START ASAP		13. COUNTY OR PARISH Lea	
14. STATE NM		15. FIELD AND FOOT OR WILDCAT Querecho Plains upper	
16. BONE SPRING		17. SEC. T., R., M., OR BLK. AND SURVEY OR AREA 14, 18S, 32E	

PROPOSED CASING AND CEMENTING PROGRAM				[CARITAN WTR BASIN]	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
17 1/2	13 3/8	48.0	400+	475 sx	CIRCULATE/WITNESS
12 1/4	8 5/8	24.0	2680+	See below	CIRCULATE
7 7/8	5 1/2	17.0	10200	See below	

Move in drilling rig. Drill 17 1/2" hole to 400'. Run 13 3/8" casing and cement to surface with 475 sx "C" cement w/2% CaCl₂. WOC 6 hours. Nipple up BOP and and test BOP and casing to 600 psi. Drill 12 1/4" hole to 2680' (200' below base of salt). Run 8 5/8" casing and cement with sufficient Cl "C" poz cement w/6% gel, 10% NaCl and 1 lb/sk celloflake followed by 360 sx of "C" cement w/2% CaCl₂ to circulate. Install BOP and test rams and choke to 3000 psi, annular to 1500 psi. Drill 7 7/8" hole to core point in Queen (+3850'). Cut 60' core. Drill 7 7/8" hole to core point in Penrose (+4120'). Cut 40' core. Drill 7 7/8" hole to TD. Run logs. Run 5 1/2" casing and cement with 50/50 poz/"H" cement, 2% gel, 6 lbs/sk NaCl and 0.75% fluid loss additive. Sufficient cement will be used to cover all potentially productive zones.

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 Michael R. Burton TITLE District Drilling Engineer DATE 1-10-89

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Orig. Signed by Richard L. Manus TITLE APPROVAL SUBJECT TO
CONDITION GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED DATE 2-24-89

*See Instructions On Reverse Side

POSTED: BRYAN

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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HOBBS OFFICE**

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

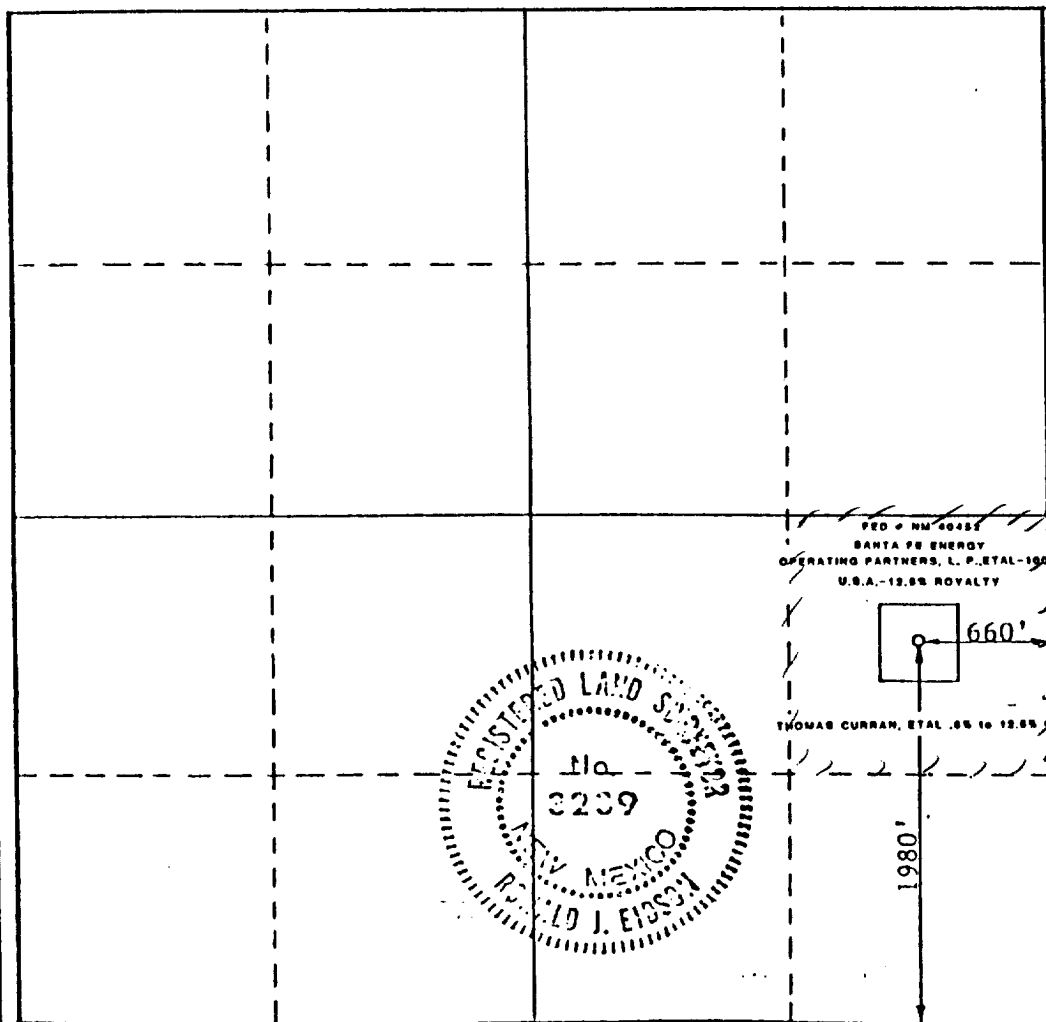
Operator SANTA FE ENERGY OPERATING PARTNERS L.P.			Lease SHINNERY 14 FEDERAL		Well No. 4
Unit Letter I	Section 14	Township 18 SOUTH	Range 32 EAST	County LEA	
Actual Footage Location of Well: 1980 feet from the SOUTH line and 660 feet from the EAST line					
Ground Level Elev. 3812.7'	Producing Formation BONE SPRING		Pool QUECHERO PLAINS		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 One lease

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

1-23-89

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

1-5-89

Registered Professional Engineer and/or Land Surveyor

Ronald J. Eidson

Certificate No. JOHN W. WEST, 676

RONALD J. EIDSON 3239

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APPLICATION FOR DRILLING
SANTA FE ENERGY COMPANY
Shinnery 14 Federal No. 4

In conjunction with form 9-331C, Application to Drill subject well, Santa Fe Energy Company 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:

Rustler	550
Base Salt	2480
Yates	2680
Seven Rivers	3040
Queen	3850
Penrose	4120
Grayburg	4320
Delaware	5250
Bone Spring	6740
TD	10200

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

Water	Water is not expected to be encountered.
Oil or Gas	Yates 2680' - TD

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. Auxilliary Equipment: See Exhibit D.
8. Testing, Logging and Coring Programs:

Logging:

Logging from 2700' - TD:
Dual Laterolog with Gamma Ray
Neutron-Density with Gamma Ray
Computer Process Log over selected intervals

Logging from 2700' - TD:
Sonic

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PROPOSED BOPE AND CHOKE ARRANGEMENT

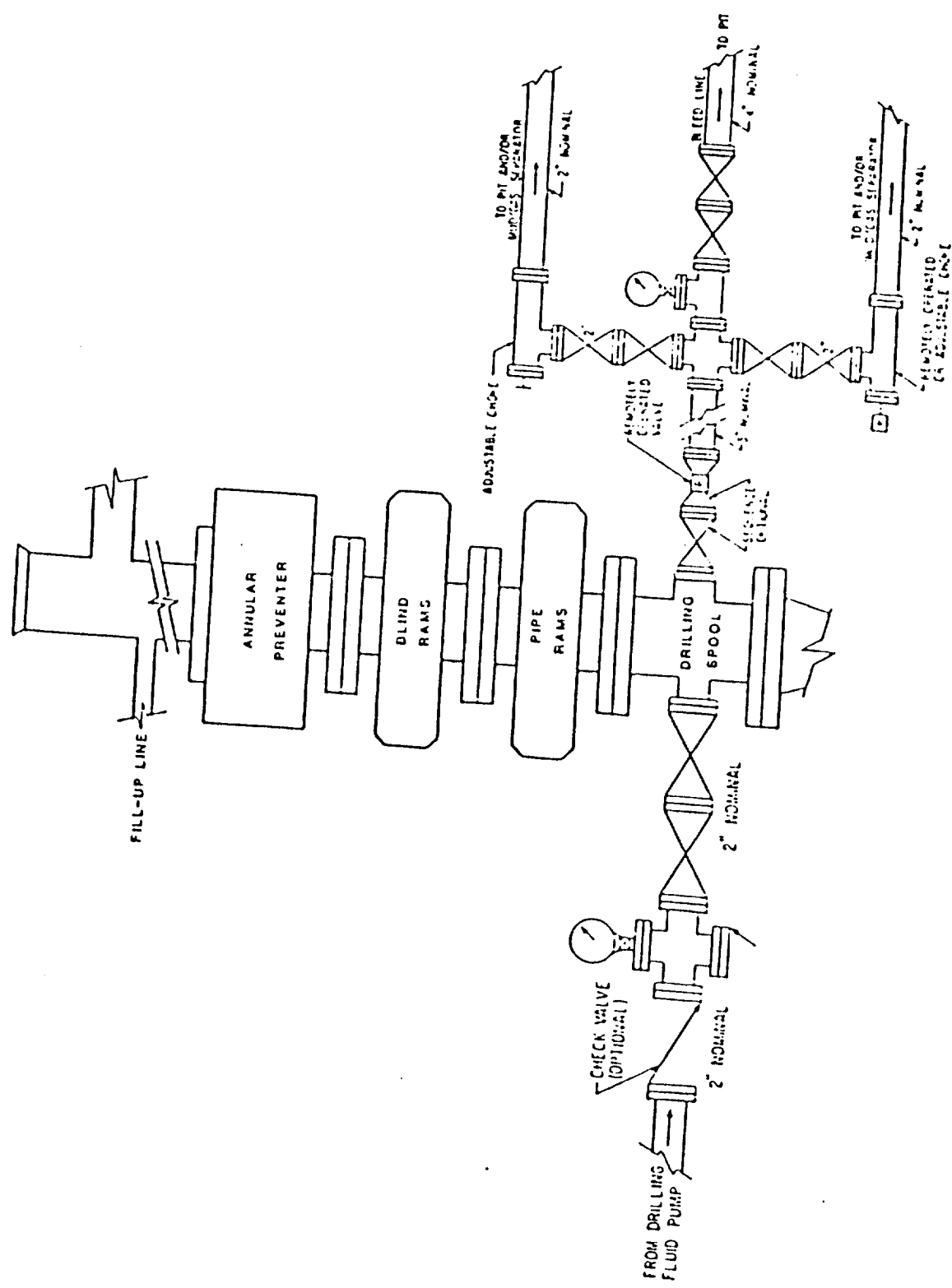


EXHIBIT B

SANTA FE ENERGY OPERATING PARTNERS, LP.
SHINERY 14 FED NO. 4
SEC 14, T 18 S, R 32 E

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ELF
Rec'd 8/24/89