

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
NEW MEXICO 88240

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, TX 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
 990' FNL & 330' FWL, Sec. 15, T-18S, R-32E  
 At proposed prod. zone  
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 7 miles southwest of Maljamar, New Mexico

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 330'

16. NO. OF ACRES IN LEASE  
 40

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 40

18. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 None

19. PROPOSED DEPTH  
 11,000'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 3799' GR

22. APPROX. DATE WORK WILL START\*  
 December 15, 1990

5. LEASE DESIGNATION AND SERIAL NO.  
 NM-40452

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 West Shinnery 15 Federal

9. WELL NO.  
 1

10. FIELD AND POOL, OR WILDCAT  
 North Young Wolfcamp

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 15, T-18S, R-32E

12. COUNTY OR PARISH  
 Lea

13. STATE  
 NM

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"	48.0	400'	400 SX <b>CIRCULATE</b>
12 1/4"	8 5/8"	28.0	2,900'	1,450 SX <b>CIRCULATE</b>
7 7/8"	5 1/2"	17.0	11,000'	See below

Move in drilling rig. Drill 17 1/2" hole to 400'. Run 13 3/8" casing and cement to surface with 400 sx "C" cement w/2% CaCl2 and 1/4 lbs/sx celloflake. WOC 6 hours. Nipple up BOP and test BOP and casing to 600 psi. Drill 12 1/4" hole to 2900'. Run 8 5/8" casing and cement with 1200 sx 35/65 Poz/"C" cement w/6% gel, 10% NaCl and 1 lb/sx celloflake followed by 250 sx of "C" cement w/2% CaCl2. Install BOP and test rams and choke to 5000 psi, annular to 1000 psi. Drill 7 7/8" hole to 11,000'. Run logs. Run 5 1/2" casing and cement with 50/50 Poz/"H" cement, 2% gel, 6 lbs/sx 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 Danell Roberts TITLE Sr. Drilling Engineer DATE October 29, 1990

(This space for Federal or State office use)

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

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 12-3-90

CONDITIONS OF APPROVAL, IF ANY:  
**APPROVAL SUBJECT TO  
 GENERAL REQUIREMENTS AND  
 SPECIAL STIPULATIONS**

**\*See Instructions On Reverse Side**

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.

Submit to Appropriate District Office  
 State Lease - 4 copies  
 Fee Lease - 3 copies

**OIL CONSERVATION DIVISION**

DISTRICT I  
 P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II  
 P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
 1000 Rio Brazos Rd., Aztec, NM 87410

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

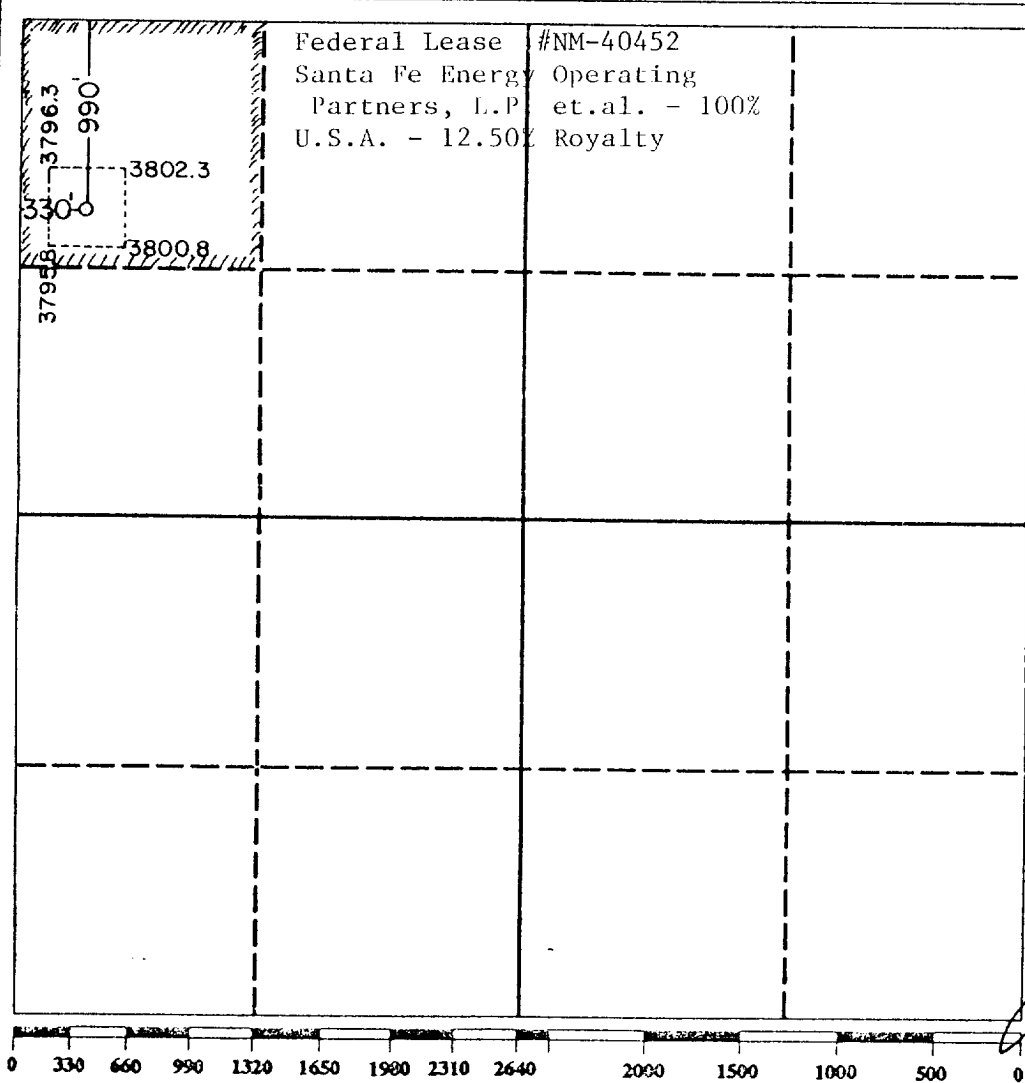
Operator SANTA FE ENERGY OPERATING PARTNERS LP			Lease West Shinnery 15 Federal		Well No. 1
Unit Letter D	Section 15	Township 18 South	Range 32 East	County Lea	
Actual Footage Location of Well: 990 feet from the North line and 330 feet from the West line					
Ground level Elev. 3799.3	Producing Formation Wolfcamp		Pool North Young Wolfcamp	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

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

Signature: *Darrell Roberts*

Printed Name: Darrell Roberts

Position: Senior Drilling Engineer

Company: Santa Fe Energy Operating Partners, L.P.

Date: 10-29-90

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**SURVEYOR CERTIFICATION**

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: October 16, 1990

Signature & Seal of Professional Surveyor: *Ronald J. Eidson*

Certificate No. JOHN W. WEST, 676  
 RONALD J. EIDSON, 3289

125630

APPLICATION FOR DRILLING  
SANTA FE ENERGY OPERATING PARTNERS, L.P.  
West Shinnery "15" Federal No. 1

In conjunction with Form 3160-3, Application to Drill subject well, Santa Fe Energy Operating Partner, 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:

Rustler	1,125'
Base Salt	2,450'
Yates	2,700'
Seven Rivers	3,050'
Queen	3,800'
Grayburg	4,420'
Delaware	5,200'
Bone Spring	6,600'
1st Bone Spring Sand	8,125'
1st Carbonate	8,375'
2nd Sand	8,775'
2nd Carbonate	9,370'
3rd Sand	9,500'
Wolfcamp	9,800'
Penn Shale	10,840'
Total Depth	11,000'

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	Grayburg 4,420' - TD

4. Proposed Casing Program: See Form 3160-3 and Exhibit A.
5. Pressure Control Equipment: See Form 3160-3 and Exhibit B.
6. Drilling Fluid Program: See Exhibit C.
7. Auxiliary Equipment: See Exhibit D.
8. Testing, Logging and Coring Programs:

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

Wolfcamp	10,400 - 10,850'
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PROPOSED BOPE AND CHOKE ARRANGEMENT

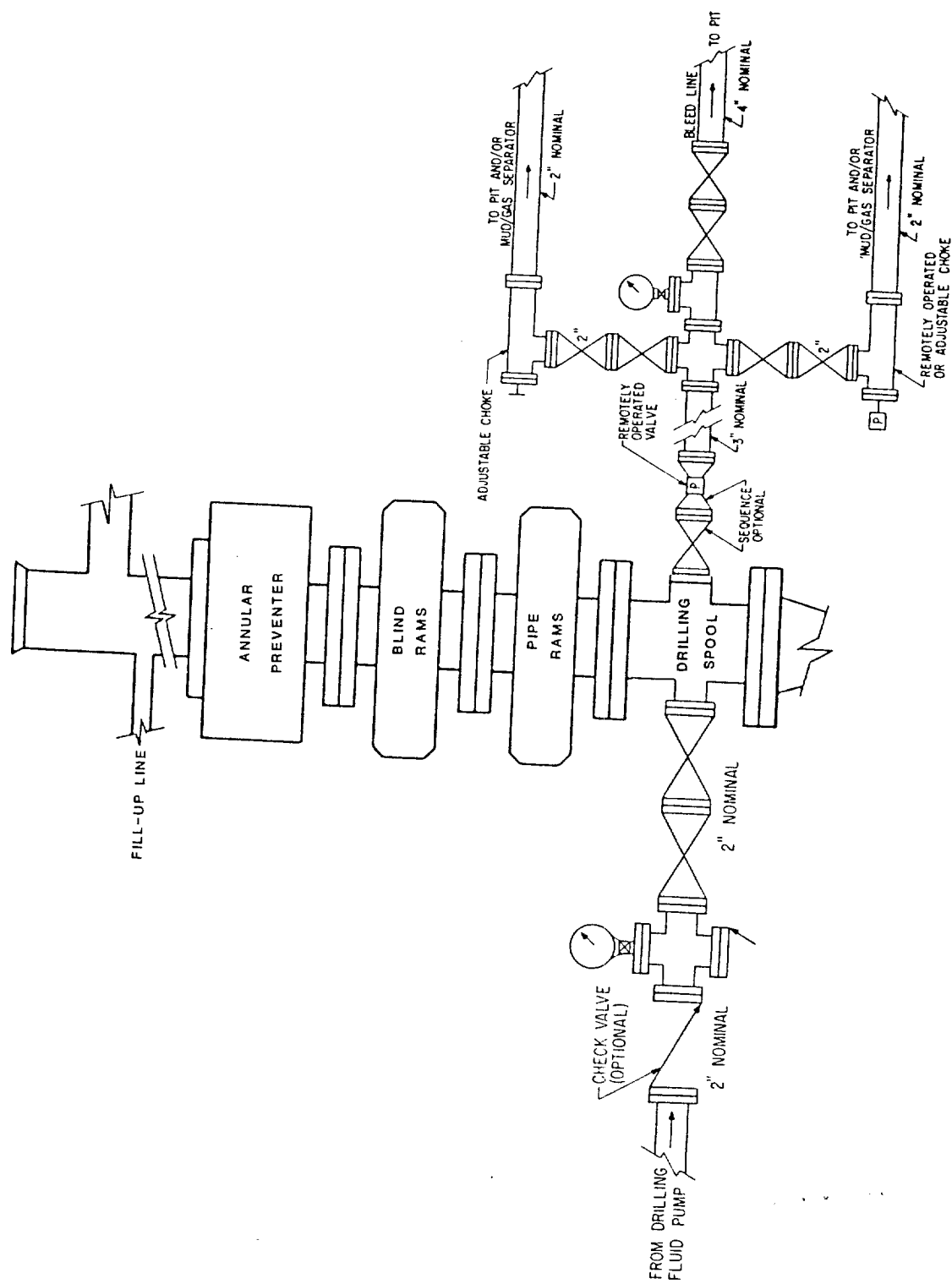


EXHIBIT B

SANTA FE ENERGY OPERATING PARTNERS, L.P.  
 WEST SHINNEY "15" FED #1  
 990' FNL & 330' FWL SEC 15, T 18 S, R 32 E  
 LEA CO., NEW MEXICO