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5A. Indicate Type of Lease  
STATE ☒ REC ☐

5. State Oil & Gas Lease No.  
NM-1351

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work  
b. Type of Well  
OIL WELL ☒ GAS WELL ☐ OTHER ☐  
SINGLE ZONE ☒ MULTIPLE ZONE ☐  
2. Name of Operator  
Southern Union Exploration Company  
3. Address of Operator  
1201 Elm Street, Suite 1800 Dallas, Texas 75270  
4. Location of Well  
UNIT LETTER J LOCATED 1650 FEET FROM THE South LINE  
AND 1650 FEET FROM THE East LINE OF SEC. 33 TWP. 16S RCF. 33E NMPH  
15. Proposed Depth  
13,100'  
15A. Formation  
Morrow  
16. Elevation (Show whether DT, RL, etc.)  
4204.4' GR  
21A. Kind & Status Plug. Bond  
Blanket  
21B. Drilling Contractor  
22. Approx. Date Work will start  
7/14/86

7. Unit Agreement Name

8. Form or Lease Name  
SNM 33-16-33

9. Well No.  
2

10. Field and Pool, or Wildcat  
Sanmal Penn

12. County  
Lea

23. PROPOSED CASING AND CEMENT PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
|--------------|----------------|-----------------|---------------|-----------------|----------|
| 17 1/2"      | 13 3/8"        | 48              | 371'          | 375             | Surface  |
| 12 1/4"      | 8 5/8"         | 24 and 32       | 4300'         | 700             | Surface  |
| 7 7/8"       | 5 1/2"         | 17 and 20       | 13,100'       | 950             | 12       |

1. RIH and set CIBP at <sup>12,900</sup>12,200'. Dump bail <sup>35'</sup>2 sks. of cement on CIBP.
2. RIH and perforate Canyon Formation from 12,074' - 89' and 12,098' - 110'.
3. Acidize with 2,500 gallons of 15% Hcl.
4. Swab test well.
5. If well is economical, put well to pump.

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed D. W. Lave Title Drilling & Production Engineer Date 7/7/86

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT SUPERVISOR TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

JUL 8 1986