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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.	
LG - 3333	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work			7. Unit Agreement Name		
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>			8. Farm or Lease Name		
DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			State "17"		
2. Name of Operator			9. Well No.		
Southern Union Exploration Company			1		
3. Address of Operator			10. Field and Pool, or Wildcat		
1800 First International Building, Dallas, Texas 75270			Austin (Miss)		
4. Location of Well			12. County		
UNIT LETTER F LOCATED 1980 FEET FROM THE North LINE			Lea		
AND 1980 FEET FROM THE West LINE OF SEC. 17 TWP. 14S RGE. 36E NMPM					
19. Proposed Depth			19A. Formation		20. Rotary or C.T.
13500'			Mississippian		Rotary
21. Elevations (Show whether DF, RT, etc.)		21A. Kind & Status Plug. Bond	21B. Drilling Contractor		22. Approx. Date Work will start
3962.0 G.L.		Blanket	Not contracted		3/1/79

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#	370'	450	Circ.
11"	8-5/8"	24 & 32#	4680'	1000	Circ.
7-7/8"	5-1/2"	17#	13500'	1500	8000'

This is a Mississippian completion attempt at the proposed depth of 13,500'. We propose to set 370 feet of 13-3/8" casing and cement it to the surface, 4680 feet of 8-5/8" intermediate casing cemented to the surface, and, in the event commercial production is found, 5-1/2" casing will be set and cemented with 1500 sacks of cement. Once 13-3/8" casing is run, a blowout preventor consisting of blind rams, pipe rams and hydrill type preventor will be installed and tested to 1000 psi for 30 minutes. When 8-5/8" casing is set, the casing and BOP will be tested to 1500 psi for 30 minutes. The BOP will be tested to 5000 psi at about 10,000 feet. A PVT, flow sensor and pump stroke counter will be used.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES April 12, 1979

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 James D. Ellis Title Chief Petroleum Engineer Date 1/9/79

(This space for State Use)

APPROVED BY John W. Runyan TITLE Geologist DATE JAN 12 1979

CONDITIONS OF APPROVAL, IF ANY:

Prior to producing this well, it will be necessary for you to obtain approval for the non-standard proration unit from the Santa Fe office of the OGD.