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NEW MEXICO OIL CONSERVATION COMMISSION  
OCT 19 1981  
O. C. D.  
ARTESIA, OFFICE

30-015-23764  
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.
B-9739-15

# 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 State HL - 2	
2. Name of Operator Tenneco Oil Company ✓		9. Well No. 1Y	
3. Address of Operator 6800 Park Ten Blvd., Suite 200 North, San Antonio, Texas 78213		10. Field and Pool, or Wildcat Und. Turkey Track Morro	
4. Location of Well UNIT LETTER <u>F</u> LOCATED <u>1870</u> FEET FROM THE <u>West</u> LINE AND <u>2090</u> FEET FROM THE <u>North</u> LINE OF SEC. <u>2</u> TWP. <u>19</u> RGE. <u>29</u> NMPM		12. County Eddy	
19. Proposed Depth 11,700'		19A. Formation Morrow	
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) 3392.4 GL	
21A. Kind & Status Plug. Bond Blanket #248-074		21B. Drilling Contractor Parker #34	
22. Approx. Date Work will start October 1, 1981			

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# H-40	300'	305 sxs	Circulated
12 1/4"	9 5/8"	32# K-55	2800'	767 sxs	Circulated
8 1/2"	5 1/2"	17# N-80	11700'	823 sxs	Top at 8000'

- Set 20" Conductor Pipe @ 80' +.
- Drill 17-1/2" hole and set 13 3/8" surface casing to 300' +/- Drill w/FW spud mud and cement w/good returns.
- Log BOP checks in daily drill report. Drill 12 1/4" hole to 2800' +/- w/10 ppg brine. Run 9 5/8" csg to 2800' +/- and cement to surface with 700+ sxs of Class "C".
- Drill 8 1/2" hole to 9180'. Possible DST in Wolfcamp carbonate + 9400'. Increase mud weight to 8.8 - 9.0 w/cut brine. "Mud-up" system as required by hole conditions. Increase mud weight with 10# brine as needed while continuing 8 1/2" hole to top of the Atoka at approximately 10500'.
- Possible DST's in Atoka sand + 10800' and Upper Morrow sand at + 11270'.
- Continue drilling 8 1/2" hole to TD at 11700'. Control water loss at 10cc and keep KCL at 5% to protect the Morrow formation (estimated top of Morrow at 11100').
- Log in accordance with Geological Prognosis and subsequent information.
- Run 5 1/2" production string or P & A.  
Gas is not dedicated.

APPROVAL VALID FOR 180 DAYS  
PERMIT EXPIRES 4-20-82  
UNLESS DRILLING UNDERWAY

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 Arleta Gray Title Production Analyst Date October 15, 1981

(This space for State Use)

APPROVED BY W. A. Gressett TITLE SUPERVISOR, DISTRICT II DATE 10-20-81

CONDITIONS OF APPROVAL, IF ANY: