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**RECEIVED**  
NEW MEXICO OIL CONSERVATION COMMISSION  
**SEP 26 1978**  
**O. C. C.**  
**ARTEBIA, OFFICE**

30-015-22707  
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.	
L-1604-2	

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name Catclaw State	
2. Name of Operator Mesa Petroleum Co ✓		9. Well No. 1	
3. Address of Operator 1000 Vaughn Building/Midland, Texas 79701		10. Field and Pool, or Wildcat Wildcat	
4. Location of Well UNIT LETTER <u>G</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>31</u> TWP. <u>17S</u> RGE. <u>24E</u> NMPM		12. County Eddy	
19. Proposed Depth 4900		19A. Formation Abo	20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 3889 GR	21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor Cactus	22. Approx. Date Work will start 11-5-78

**PROPOSED CASING AND CEMENT PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17½"	13-3/8"	48	200	375	Circ to Surface
12¼"	8-5/8"	24	1700	1000	Circ to Surface
7-7/8"	4-1/2"	10.5-11.6	4900	600	3500

Propose to drill 17½" surface hole to 200' without BOPs, using water and LCM as circulating media. Will cement 13-3/8" to surface, then install 12" API 3000 psi casing flange and rotating head. Will drill 12¼" hole to approximately 1700' using water, light treatment of fresh water gel, and LCM. The 8-5/8" casing will be run and cement circulated to surface. After installing 12" API 3000 x 10" API 3000 casing spool, a double hydraulic 10" API 3000 BOP (pipe and blind rams) will be installed. A 7-7/8" hole will be drilled to total depth of 4900'. Maximum anticipated mud weight will be 8.7 PPG (obtained from records of area wells).

**APPROVAL VALID  
FOR 90 DAYS UNLESS  
DRILLING COMMENCED,**

Operator's gas is dedicated to Northern Natural Gas.

**EXPIRES 12-28-78**

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 Michael P. Houston Title Division Engineer Date September 25, 1978

(This space for State Use)

APPROVED BY N. R. Gressett TITLE SUPERVISOR, DISTRICT II DATE SEP 28 1978

CONDITIONS OF APPROVAL, IF ANY:

Cement must be circulated to

Notify N.M.O.C.C. in sufficient time to witness cementing

surface behind 13 3/8" casing

XC: JLF, JWH, MEC, JBH, NMOCD, FILE, Northern Natural

the 8 5/8" casing