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**RECEIVED**  
 NEW MEXICO OIL CONSERVATION COMMISSION  
 NOV 14 1978

Form C-101  
 Revised 1-1-65

**O. C. C.**  
*Amended application* ARTERIA, OFFICE

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 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 type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator Mesa Petroleum Co. ✓		8. Farm or Lease Name Catclaw State
3. Address of Operator 1000 Vaughn Building Midland, Texas 79701		9. Well No. 1
4. Location of Well UNIT LETTER G LOCATED 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE OF SEC. 31 TWP. 17S RGE. 24E NMPM		10. Field and Pool, or Wildcat x Wildcat - Atoka
		12. County Eddy
		19. Proposed Depth 7600'
		19A. Formation Atoka
		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 11-19-78

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	200	375	Circ to surface
12 1/4"	8 5/8"	24	1700	1000	Circ to surface
7 7/8"	4 1/2"	10.5-11.6	7600	775	3500'

Propose to drill 17 1/2" 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 11" 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 7600'. Maximum anticipated mud weight will be 9.2 PPG based on offset wells.

Operator's gas is dedicated to Northern Natural Gas.

*Approved by*  
*Steve Douglas*  
 11-13-78  
 Amended Application  
 EXPIRED 2-16-79

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 Steve Douglas Title Engineer Date 11-13-78

(This space for State Use)

APPROVED BY W. A. Gressett TITLE SUPERVISOR, DISTRICT II DATE NOV 16 1978

CONDITIONS OF APPROVAL, IF ANY:

XC: JLF, MEC, JWH, FILE, NMOC, WI OWNERS, JBH

Cement must be circulated to

surface behind 13 3/8" & 8 5/8" casing

8 5/8"