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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>		8. Farm or Lease Name Gilmore	
OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		9. Well No. 1	
2. Name of Operator MESA PETROLEUM CO.		10. Field and Pool, or Wildcat Shoe Bar, North, Wolfcamp	
3. Address of Operator BOX 2009, AMARILLO, TEXAS 79105			
4. Location of Well UNIT LETTER M LOCATED 740 FEET FROM THE south LINE AND 740 FEET FROM THE west LINE OF SEC. 7 TWP. 16S RGE. 36E NMPM		12. County LEA	
19. Proposed Depth TD: 11,600		19A. Formation PB to Wolfcamp	
20. Rotary or C.T. rotary			
21. Elevations (Show whether DT, RT, etc.) 3955 GL		21A. Kind & Status Plug. Bond blanket	
21B. Drilling Contractor Robinson		22. Approx. Date Work will start 12/21/73	

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP

Top of Strawn is at 11,360'. DST #3 from 11,374-11,466 indicated Strawn was not commercially productive. OP 5", SI 60", OP 45", SI 90", used 1500' WB. Opened tool with strong blow on 5" pre-flow, blow gradually decreased at end of second flow period. No GTS. Recovered 1500' VSO & GC WB plus 4000' GCSW with scum oil. Sample chamber 1900 cc GC SW with skim of oil - chlorides 29,000 ppm plus 0.8 cfg at 1700 psi. IHH 5036 psi, IFP 1132 psi, ISIP 4175 psi, FFP 2450 psi, FSIP 4990 psi, FHH 5053 psi. Electric logs also indicated zone was wet. A 50 sack cement plug was spotted through drill pipe from 11,246 to 11,398' and completion will be attempted in Wolfcamp.

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 Production Engineer Date 12-27-73

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: