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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-65

5A. Indicate Type of Lease  
STATE  FEE

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work  
b. Type of Well DRILL  DEEPEN  PLUG BACK   
OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. Name of Operator  
Mesa Petroleum Co

3. Address of Operator  
1000 Vaughn Bldg., Midland, Texas 79701

4. Location of Well UNIT LETTER D LOCATED 510 FEET FROM THE North LINE  
AND 660 FEET FROM THE West LINE OF SEC. 18 TWP. 16S RGE. 36E NMPM

7. Unit Agreement Name  
8. Farm or Lease Name  
Houston

9. Well No.  
1

10. Field and Part of Well  
~~UNREGULATED~~  
Shoe Bar, North, Strawn

12. County  
Lea

19. Proposed Depth  
11,700

19A. Formation  
Strawn

20. Rotary or C.T.  
Rotary

21. Elevations (Show whether DF, RT, etc.)  
3954' GR

21A. Kind & Status Plug. Bond  
Blanket

21B. Drilling Contractor  
Moranco

22. Approx. Date Work will start  
June 10, 1977

23. 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	400'	425	Circ
12¼"	9-5/8"	36-40	4200'	300	3500'
8-3/4"	4½" or 7"	To be determined	11,700'	Sufficient to cover all pay	

Propose to drill surface hole without blowout preventers. After setting 13-3/8" casing and installing bradenhead, will nipple up 12" API 3000 psi WP BOPs (blind, pipe, and bag). Will drill 12¼" hole to 4200' and run 9-5/8" casing to that depth. After cementing intermediate casing, will nipple up 12" API BOP stack, same as before. Will drill to total depth of 11,700'. Maximum anticipated mud weight is 8.8 PPG, based upon data from offset wells.

Based upon DST and log evaluation, decision will be made to run either 4½" or 7" casing.

**\*\*Cement on the intermediate casing must be brought from the top of the salt or anhydrite to the surface casing. You can do this by either circulating the intermediate casing with cement, or a DV tool at the top of the salt.**

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 June 3, 1977

(This space for State Use)  
Orig. Signed by Les Clements TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY: See Above

XC: JLF, MEC, JWH, 5 NMOCC, Partners, File

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JUN 6 1977

OIL CONSERVATION COMM.  
HOBBS, N. M.