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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"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name Shipp	
2. Name of Operator Mesa Petroleum Co.		9. Well No. 2	
3. Address of Operator 1000 Vaughn Bldg., Midland, TX 79701		10. Field and Pool, or Wildcat Wildcat	
4. Location of Well UNIT LETTER J LOCATED 1980 FEET FROM THE South LINE AND 2130 FEET FROM THE East LINE OF SEC. 11 TWP. - 17 RGE. 37 NMPM		12. County Lea	
19. Proposed Depth ---		19A. Formation Abo	
20. Rotary or C.T. -----		21. Elevations (Show whether DF, RT, etc.) 3757' RKB 3745' GR	
21A. Kind & Status Plug. Bond Blanket		21B. Drilling Contractor ----	
22. Approx. Date Work will start November 15, 1976			

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	420'	375	Circ to surface
12-1/4	9-5/8	40	4,800'	675	2700 by T.S.
8-3/4	5-1/2	15.5-17	11,685'	700	8350 by T.S.

Well was drilled and completed in mid-year, 1972, and is presently completed in the Atoka zone with perfs 11,637'-11,646'. Production averages approximately 1 BO and 15 MCF per day. Well has reached economic limit. Bottom hole pressure run on October 29, 1976, was 764 psi extrapolated to mid point of perfs. Zone had 3,805 original reservoir pressure. Well is located in Humble City Atoka Field.

Strawn perfs from 11,464'-11,468' are open behind tubing. Propose to squeeze Atoka below permanent packer at 11,600'. Will then set cement retainer approximately 11,400' and squeeze Strawn perfs, leaving 5 sx on top of retainer. Perforate Abo selectively from 8,968'-9,139' and test, stimulate if necessary. This well is approximately 1 mile ENE of Petroleum Exploration & Operation Corp's Nicholson 2-0-10-17-37, which produced 871 BO and 945 MCF during August, 1976. This well is located in the Midway, Abo Field.

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 November 2, 1976

(This space for State Use)

APPROVED BY NOV 1976 TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

XC: JLF, MEC, LMC, JWH, 5-NMOCC

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NOV 8 1976

OIL CONSERVATION COMM.
HOBBS, N. M.