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NEW MEXICO OIL CONSERVATION COMMISSION  
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APR 25 1975

O.C.C.

ARTESIA, OFFICE

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-3358
7. Unit Agreement Name
8. Farm or Lease Name Nash Unit
9. Well No. 2
10. Field and Pool, or Wildcat Undesignated
12. County Eddy

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>	
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	
2. Name of Operator Mesa Petroleum Co.	
3. Address of Operator 904 Gihls Tower West, Midland, Texas 79701	
4. Location of Well UNIT LETTER <u>E</u> LOCATED <u>1350</u> FEET FROM THE <u>North</u> LINE AND <u>1300</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>18</u> TWP. <u>23S</u> RGE. <u>30E</u> NMPM	

19. Proposed Depth 14,000'	19A. Formation Morrow	20. Rotary or C.T. Rotary
21. Elevations (Show whether D.F., K.I., etc.) 3022 GR	21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor McVay
		22. Approx. Date Work will start July 1, 1975

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	300	350	Circ. to surf.
12½	9 5/8	36	3400	1000	Circ. to surf.
8 3/4	7	23-26	11,100	1800	Circ. to surf.
6	4½	13.5	14,000	325	Top of liner

AMENDED COPY" REPLACES APPLICATION DATED APRIL 18, 1975

Surface hole will be drilled to 300' without BOP's. Below the surface casing, 12" API 3000 psi BOP's will be used to casing shoe depth at 3400'. Salt brine will be used to drill this portion of the hole to prevent unnecessary hole enlargement. After the 9 5/8" casing is set, 10" API 5000 psi BOP's will be used to total depth. Controlled polymer brine mud will be used to drill to total depth. Maximum mud weight required to overbalance formation pressure is anticipated to be 12.2 PPG at approximately 12,100', based on experience gained while drilling the immediate offset well (Nash Unit # 1 - located in Section 13, T23S, R29E). BOP's will be thoroughly tested before penetrating this abnormally pressured section, also 7" casing will have been set at approximately 11,100'. Cement will be circulated to the surface behind the 7" casing, using necessary DV tools.

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 April 24, 1975

(This space for State Use)  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY: