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NE. MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

SEP 11 1969

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.	
E-1731	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
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 checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		New Mexico "CU" State Gas	
2. Name of Operator		8. Farm or Lease Name	
TEXACO, INC.		Com.	
3. Address of Operator		9. Well No.	
P. O. BOX 3109 Midland, Texas 79701		1	
4. Location of Well UNIT LETTER F LOCATED 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE OF SEC. 31 TWP. 20-S RGE. 36-E NMPM		10. Field and Pool, or Wildcat Osudo - Morrow Gas	
		12. County Lea	
		19. Proposed Depth 11,500'	
		19A. Formation Morrow	
		20. Rotary or C.T. Rotary	
21. Elevations (show whether DE, RT, etc.) NOT AVAILABLE		21A. Kind & Status Plug. Bond \$10,000 Blanket	
		21B. Drilling Contractor Unknown	
		22. Approx. Date Work will start At Once	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
13 3/4"	11 3/4"	42#, 23.72#	350'	* 260	350% to circulate
10 5/8"	8 5/8"	32#, 36#	5,400'	** 500	150% to tie back to base of salt
7 5/8"	4 1/2"	13/5#, 11.6#	11,500'	*** 1150	150% to tie back

- * Cement with 260 SxClass "C" w/1/4#/Sx Flocele, 14.8#/gal., 2% CaCl. (350% to circulate) cement must circulate
- ** Cement with 300 Sx TLW w/7.5#/Sx Salt, 12.44#/gal. followed by 200 Sx Class "C" w/10#/Sx Salt, 14.8#/gal. (150% to tie back to base of Salt)
- ** Cement with 800 Sx TLW w/5#/Sx Gilsonite, 12#/gal. followed by 350 Sx Class "C" 10#/Sx Salt, 14.8#/gal. Proceed cement with mud flush. (150% to tie back.) Cement Co. to run lab test w/samples of Cmt. & Wtr. to be used prior to cementing at 11,500'. Pump plug w/500 gal. Formic Acid followed by prepared brine.

COMPLETION PROGRAM

1. Selectively perforate Morrow pay w/2 JSPI with a differential toward well bore.
2. Test Natural. 3. Only if necessary: Acidize w/2000 gal. mud acid plus 2% Alcohol, & CO₂

FORMATION TOPS EXPECTED

Base Salt	3500'	Strawn	10,500'
Base of Capitan RF	5340'	Morrow	11,147'
Lone Spring	7750'	Upper Mississippian	11,455'
Wolfcamp Lime	10,335'	Total Depth	11,500'

1134

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 FLOWLINE PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

September 8, 1969

Signed [Signature] Title Division Civil Engineer Date September 8, 1969

(This space for State Use)

SUPERVISOR DISTRICT

APPROVED BY [Signature] TITLE DATE SEP 10 1969

CONDITIONS OF APPROVAL, IF ANY:

12-10-69