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NEW MEXICO OIL CONSERVATION COMMISSION

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30-015-22543

Form C-101  
Revised 1-1-65

MAY - 3 1978

O. C. C.  
ARTESIA, OFFICE

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.	
647-368	

## 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"/>		Empire South Deep Unit	
2. Name of Operator		8. Term of Lease Name	
Amoco Production Company ✓		Empire South Deep Unit	
3. Address of Operator		9. Well No.	
P.O. Drawer A, Levelland, Texas 79336		19	
4. Location of Well		10. Field and Pool, or Unit	
UNIT LETTER <u>AH</u> LOCATED <u>2280</u> FEET FROM THE <u>North</u> LINE		Mad. South Empire Morrow	
AND <u>660</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>36</u> TWP. <u>17-5</u> RGE. <u>28-E</u> NADP			
		12. County	
		Eddy	
		13. Proposed Depth	
		11,200	
		14A. Formation	
		Morrow	
		14B. Kind of Rotary	
		Rotary	
21. Elevations (show whether DF, KI, etc.)		21B. Drilling Contractor	
3677.2 GR		NA	
21A. Kind & Status Plug. Bond		22. Approx. Date Work will start	
Blanket-On File		5-15-78	

## 23. 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#	* 400500	Circulate	Surface
12 1/4"	8 5/8"	24#	2900	Circulate	Surface
7 7/8"	5 1/2"	15.5#, 17#	11,200	Tie back to 8 5/8"	

Propose to drill and equip Morrow well. After reaching TD and evaluating logs, perforate and stimulate as necessary in attempting commercial completion.

Mud program: 0-<sup>500</sup>400' Native mud and water  
<sup>500</sup>400'-2900' Native mud and brine water  
2900'-11,200' Commercial mud and cut brine water to maintain good hole conditions.

BOP program attached.  
Gas is not committed.

APPROVAL VALID  
FOR 90 DAYS UNLESS  
DRILLING COMMENCED,

EXPIRES 8-11-78

\* If water flow is encountered in intermediate hole  
a DV tool may be required to cement 8 5/8"

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 Ray W. Cox Title Administrative Supervisor Date 5-2-78

(This space for State Use)

APPROVED BY W. A. Gressett TITLE SUPERVISOR, DISTRICT II DATE MAY 11 1978

CONDITIONS OF APPROVAL, IF ANY: \* As noted  
0+4-NMOCC-Art; 1-Div; 1-Susp; 1-RC; 20-Partners

Cement must be circulated to  
surface behind 13 3/8" & 8 5/8" casing