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NEW MEXICO OIL CONSERVATION COMMISSION

Form O-191  
Revised 11-65

5A. Indicate type of Lease
STATE <u>NM</u> FILE <u>11</u>
5. State Oil & Gas Lease No.
<u>B-1732</u>
7. Unit Agreement Name
8. Form or Lease Name
<u>Harry Leonard (NCT-C)</u>
9. Well No.
<u>16</u>
10. Field and Pool, or Wildcat
<u>Drinkard</u>
12. County
<u>Lea</u>

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK			
1a. Type of Work			
b. Type of Well DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/>			
OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			
2. Name of Operator			
<u>Gulf Oil Corporation</u>			
3. Address of Operator			
<u>Box 670, Hobbs, New Mexico 88240</u>			
4. Location of Well			
UNIT LETTER <u>K</u> LOCATED <u>1980</u> FEET FROM THE <u>South</u> LINE			
AND <u>2240'</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>36</u> TWP. <u>21-S</u> RGE. <u>36-E</u> NMPM			
19. Proposed Depth			
<u>6800'</u>			
19A. Formation			
<u>Drinkard</u>			
20. History or C.C.E.			
<u>Reverse Unit</u>			
21. Elevations (Show whether DE, RT, etc.)			
<u>3519' GL</u>			
21A. Kind & Status Plug. Bond			
<u>Blanket</u>			
21B. Drilling Contractor			
22. Approx. Date work will start			
<u>March 15, 1976</u>			

PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11"	8-5/8"	24#	1220'	350 sacks (Circulated)	
7-7/8"	5-1/2"	14#	5900'	735 sacks (TOO at 1800').	

Plans have been made to squeeze Blinbry perforations 5576' to 5802' with approximately 75 sacks of cement. WOC 18 hours. Test squeezed perforations with 500#, 30 minutes. Drill 4-3/4" hole from 5900' to approximately 6800'. Run 4" 11.34# K-55 liner and set bottom at 6800' and top at approximately 5830'. Cement liner with 150 sacks of cement. WOC 24 hours. Clean out and test liner with 1000#, 30 minutes. Perforate Drinkard zone in liner with 4, 1/2" JHPF in the approximate interval 6575' to 6750'. Run treating equipment and treat new perforations with 2,000 gallons of 15% NE acid and frac with 30,000 gallons of gel brine containing 0 to 2# SPG. Pull treating equipment. Run 4" packer and 2-3/8" tubing. Set packer at approximately 5875'. Swab and clean up and place well on production.

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 C.R. Kerschman Title Project Petroleum Engineer Date March 12, 1976  
(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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MAR 12 1976

OIL CONSERVATION COMM.  
HOBBS, N. M.