			TED STATE			lley.		
GEOLO AL SURVEY						5. LEANE DENIGNATION AND BEBIAL NO. NM-7951		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						G. IF INDIAN, ALLOTTEE OF TELES NAME		
In. TYPE OF WORK DRIFFL DIKE FATAY DEEPEN I PLUG BACK							7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL GAB WELL OTHER ZONE ZONE ZONE							S. FARM OR LEASE NAME	
2. NAME OF OPERATOR						Leonard Bros.		
TENNECO OIL COMPANY 3. Address of Operator						9. WELL NO #3		
1860 Lincoln St., Suite 1200, Denver, Colorado 80295 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)						10. FIELD AND FOOL. OR WILDCAT		
At surface 1974' FNL and 1976' FEL						Leonard Queen, South 11. BEC., T., B., M., OK BLK.		
At proposed prod. zone							AND SURVEY OR AREA	
Unit G 14. distance in miles and direction from nearest town or post office*							Sec. 13, T26S, R37E 12. COUNTY OR PARISH 13. STATE	
See point 1: B7& C of Surface Use Plan 10. DIBTANCE FROM PROPOSED* 16. NO. OF ACRES IN LEASE 1 17. NO. OF							Lea New Mexico	
LOC. PRO	LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.						D. OF ACRES ASSIGNED THIS WELL AD	
18. DIST	(Also to nearest drig. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION® TO NEAREST WELL, DRILLING, COMPLETED,					20. но	40 DTARY OR CABLE TOOLS	
OR A	OR APPLIED FOR, ON THIS LEASE, FT. 21. ELEVATIONS (Show whether DF, RT, GR, etc.)				3600'		Rotary 22. APPROX. DATE WORK WILL START"	
		3.9' GL					A. ATTROL DALL WORK WILL START	
23. PROPOSED CASING AND CEMENTING PROGRAM								
	SIZE OF HOLE SIZE OF CASING			WEIGHT FER FOOT SETTING DEPTH				
Hole 12	1 <u>5</u> "	<u>13-3/8"</u> 9-5/8"	<u>48#</u> 36#		<u>4091'</u> 4199'		<u>) sacks circulated to surface</u> 10 sacks	
Was	open hole	before plugging	from 4199'		861'.	1	-	
History: This well was known before as the Humble Federal Leonard #2 and was plugged and								
abandoned. The following plugs were set: 50 sacks at the surface; 100 sacks from 4000 - 4200; 195 sacks from 5100'- 5600; 200 sacks from 6500' - 7000' and 90 sacks from 9560' -								
9861'. We propose to drill out the cement plugs to \pm 3600' and test this well as follows:								
1- The geologic name of this surface formation is the Ogallala Lime (Miocene).								
203-	2&3- <u>Formation Tops (Estimated)</u> Salado +1150' Salt							
	Yates +2520' Possible Oil or Gas Producer							
	7 Rivers +2840' Possible Oil or Gas Producer							
Queen <u>+</u> 3390' Oil and Gas Penrose +3485' Oil and Gas								
4- No new casing will be run. Casinghead will be a weld on $9-5/8$ " head w/a 3000 psi rating.								
5-	5- <u>Blowout preventors</u> : Hydraulic, double ram, 10". One set of rams will be provided for each size drill pipe in the hole. One set of blind rams at all times. Fill line will be							
	2", kill line will be 2", choke relief line will be 2" with variable choke. BOP's will							
	be installed, tested and in working order before drilling below second plug and shall							
	be maintained ready for use until drilling operations are completed. BOP's, drills, and tests will be recorded in the drillers logs.							
6-	6- We will use; Drill bits, drill collars, and drill pipe as needed to drill out plugs.							
7-	7- Auxiliary Equipment							
	 a. Kelly cock will be in use at all times. b. Stabbing valve to fit drill pipe will be present on floor at all times. 							
	c. Mud monitoring will be visual.							
	d. Floats at bits. e. Drill string safety valve (s) to fit all pipe in the drill string will be maintained							
2	on the rig floor while drilling operations are in progress.							
8-	8- This well will be pump tested after recovery of any load oil or water. CNL-FDC-GR caliper logs will be taken.							
9-	No [°] abnorm	al pressures or	temperatur	res a	re anticipated.	See	e point #5 for blowout	
10-	prevention equipment.							
10-	0- The drilling of these plugs will take approximately two days. The gas is not dedicated to any purchaser as of this date.							
11-							budding in sufficient time to	
witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life. Prior approval will								
be obtained before appreciably changing drilling program or commencing plugging operation								
plug back work, casing repair work or corrective cementing operations.								
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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.								
24								
BIGNED _ A.A. Myers TI				Div. Production Manager				
(This space for Federal or State office use)							AS AMENDED	
PERMIT NO APPROVAL DATE						JUN 2 8 1977		
						BERNARD MOROZ		
APPROVED BY							TING DISTRICT ENGINEER	

"APPROVAL TO FLARE GRANTED WHILE DRILLING AND TESTING."

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"S аэуіву ІІА

All BOPs, flanges, spools. valves, & lines must be series 900 or 3000 psi working press.

Cioke manifold must be at ground Level and extended out from under substructure.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKNE

Denver, Colorado

