

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK <b>DRILL</b> <b>DEEPEN</b> <b>PLUG BACK</b> <input checked="" type="checkbox"/>		2. LEASE DESIGNATION AND SERIAL NO. <b>N M 03551</b>
3. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		4. IF INDIAN, ALLOTTEE OR TRIBE NAME
5. NAME OF OPERATOR <b>Caulkins Oil Company</b>		6. CUST. AGREEMENT NAME
7. ADDRESS OF OPERATOR <b>P.O. Box 201, Bloomfield, New Mexico</b>		8. FARM OR LEASE NAME <b>Breech "E"</b>
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements *) At surface <b>1820 from the South and 1980 from the East</b> At proposed prod. zone <b>Same</b>		9. WELL NO. <b>587</b>
10. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>30 miles South east of Blanco, New Mexico</b>		10. FIELD AND POOL, OR WILDCAT <b>Blanco Mesa Verde</b>
11. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>470</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 4 26N 6W</b>
12. NO. OF ACRES IN LEASE <b>2240</b>		12. COUNTY OR PARISH <b>Rio Arriba</b>
13. NO. OF ACRES ASSIGNED TO THIS WELL <b>320</b>		13. STATE <b>New Mexico</b>
14. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>470</b>		14. APPROX. DATE WORK WILL START* <b>April 15, 1978</b>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>6440 Gr</b>		

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

## Present Condition:

TD 6687'. 5 1/2" 15.5# J-55 8rd thd casing cemented at 6686' with 500 sacks cement. Top 5160'. Perforated 6652-6652 6 holes per foot. Abandoned as water injection well 5-9-66. Well has been temporary abandoned 5-9-66 to date. July 11, 1975 application to plug back and recompleate Gallup zone was approved. We request this application be canceled. It is now proposed to plug back and recompleate in Mesa Verde zone as follows: Cement plug will be spotted over perforations in 5 1/2" casing up to 6550'. 9# mud will be spotted in 5 1/2" casing 6550 to 5450'. 100' plug will be spotted 5450 to 5350'. 5 1/2" casing will be perforated at 5160', then cemented thru perforations to top of Alamo at 2300'. Mesa Verde zone will be perforated and fractured to stimulate production. Blow out preventor will be used while plugging back, cementing and recompleation. A pit 20 X 20 X 4' deep on existing location will be required to contain frac water while cleaning up and testing. After completion location will be cleaned up, pit covered and disturbed area will be reseeded to within 51' of all facilities with BLM approved seeding program. 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.

SIGNED Charles E. Legue TITLE Superintendent DATE 10-28-77

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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