

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-38584
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR DIETRICH EXPLORATION COMPANY, INC. (Named changed to DIETRICH RESOURCES CORPORATION, effective May 15, 1981)		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 410 Seventeenth Street, #2450 Denver, Colorado 80202		8. FARM OR LEASE NAME Federal 26
4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations) At surface 1,650' From the West Line, 1,650' From the North Line At proposed prod. zone Same		9. WELL NO. 20-22
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 1 mile southeast of Counselor		10. FIFID AND POOL, OR WILDCAT Wildcat Gallup
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1,650'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA F Sec 26-T23N-R6W
16. NO. OF ACRES IN LEASE, N. M. 1,280		12. COUNTY OR PARISH Sandoval
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		13. STATE New Mexico
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None		14. PROPOSED DEPTH 6,654'
19. PROPOSED DEPTH 6,654'		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7,040' Ground; 7,052' KB		22. APPROX. DATE WORK WILL START* June 1, 1981

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	23.00#	293' KB	200 sacks, circulated
7-7/8"	4-1/2"	10.50#	6,652'	464 sacks, first stage
				350 sacks, second stage

* See Form 9-331 of December 12, 1980 for details prior to this plug back.

Plans are to clean well out to 5,700' (PBTD), mix and spot 3 sacks of cement on top of bridge plug at 5,700', using wire-line dump bailer.

USGS contacted - will require another plug
between CIP at 5,700' + top Dakota part
at 6,240' @ 1-15-82 Ken Townsend @ USGS



4. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive one. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout reventer program, if any.

SIGNED Ray F. Dietrich Ray F. Dietrich TITLE President DATE January 4, 1982
(This space for Federal or State office use)

PERMIT NO. APPROVED APPROVAL DATE 1/8/82
APPROVED BY James F. Sims TITLE NMOCC DATE 1/8/82
CONDITIONS OF APPROVAL, IF ANY: 1/8/82
James F. Sims
DISTRICT ENGINEER
*See Instructions On Reverse Side