Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42 R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: ARCO Oil and Gas Company, Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR: P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1025' FSL & 975' FEL, Section 33
At proposed prod. zone: Approximately same.

5. LEASE DESIGNATION AND SERIAL NO.: SF 078803
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: - - - - -
7. UNIT AGREEMENT NAME: - - - - -
8. FARM OR LEASE NAME: Krause WN Federal
9. WELL NO.: 4E
10. FIELD AND POOL, OR WILDCAT: Basin Dakota
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 33-T28N-R11W
12. COUNTY OR PARISH: San Juan
13. STATE: New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 6 miles south of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 975'
16. NO. OF ACRES IN LEASE: 2560.0
17. NO. OF ACRES ASSIGNED TO THIS WELL: E/320
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 2155'
19. PROPOSED DEPTH: 6630
20. ROTARY OR CABLE TOOLS: Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6013' GL Ungraded
22. APPROX. DATE WORK WILL START*: When approval received.

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"	24#	900	400 sx (cement to surface)
7-7/8"	4-1/2"	10.5#	TD	500 sx

Propose to drill well to a depth sufficient to test the Dakota formation, setting surface casing and if productive setting production casing. If the Dakota formation is productive will perforate, test and treat if necessary.

Pursuant to the provisions of NTL-6 attached are: Certified Location Plat
Drilling Plan with attachment
Surface Use and Operations Plant with attachments.

RECEIVED
APR
U.S. GEOL. SURVEY
FARMINGTON, N. MEX.

APPROVED
AUG 4 1980
OIL CON. COM.
DIST. 3

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.

SIGNED R. Whitley TITLE Operations Manager DATE April 7, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

*See Instructions On Reverse Side