Form 3180- . (November 1983) (formely 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR MADE

20-034-27522

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO. SF 078510 **BUREAU OF LAND MANAGEMENT** 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL DEEPEN. OR PLUG BACK NA DRILL X 1a. TYPE OF WORK DEEPEN PLUG BACK 7. UNIT AGREEMENT NAME b. TYPE OF WELL NA GAS X SINGLE MULTIPLE WELL [[X] 8. FARM OR LEASE NAME OTHER ZONE ZONE Jacquez 2. OPERATOR: ARCO Oil and Gas Company 9. WELL NO. A Division of Atlantic Richfield #2 3. ADDRESS: P.O. 1610 FIELD AND POOL, OR WILDCAT CITY: Midland STATE: Texas 4. LOCATION OF WELL (Report clearly and in accordance with any State QTR. QTR. SEC. T. R. AND MERIDIAN At surface 1370' FNL & 1295' FEL OCT 2 6 1989 NE/4 Section 6. T31N - R8W At proposed Prod. zone Approximately the same 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OF CON. DIV. COUNTY OR PARISH 13. STATE Approximatly 11 miles Southwest of Ignacio, Colorado DIST. 3 San Jaun **New Mexico** 18. NO. OF ACRES IN LEASE* NO. OF ACRES AND/OR DRILLING UNIT 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. ASSIGNED TO THIS WELL 328 321.食 (Also to nearest drig. line, if any) 2047.19 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS DRILLING, COMPLETED, 488.5 OR APPLIED FOR, ON THIS LEASE, FT. 3500' Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START DRILLING OPERATIONS AUTHORIZED ARE October 1989 6548' GR SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTO CASING AND CEMENTING PROGRAM his action is subject to tenhalization 23. d appeal, britanilly of the 7433CFR 3165:3 SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPER 500 12-1/4* 8-5/8* 24# 415 7-7/8" 5-1/2* 15.5# 3500 1400 It is proposed to drill a 12-14" hole to 500' using fresh water spud mud. After setting surface casing, the shoe will be drilled out with a 7-7/8" bit, continueing to TD. A low solids, fresh water gel/polymer mud system will be utilized. A water loss of less than 20cc will be maintained to minimize hole heave and a mud weight of 9.5 ppg will be used to balance the 1600 psi Fruitland pore pressure. At TD, open-hole logs consisting of GR/CNL/FDL will be run and 5-1/2" production casing will be set and cemented to surface. Completion opperations will consist of perforating approximately 50' of coal followed by 2 stimulation stages. The first stage will be a 2000 gal acid breakdown, the second will be a hydralic fracture treatment consisting of 150,000 gals of 35 ppt cross-linked gel carrying 214,000# 12/20 mesh sand. After cleanup, gas lift equipment will be run on 2-7/8" production tubing with a retrievable packer set 50' above the top perf. IN THE ABOVE SPACE DISCRIBE 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 dats on surface locations and measured and true vertical depths. Give blowout preventer PERMIT NO. APPROVAL DATE AS AMENDED

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION P.O. BOX 2088

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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