

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

30-045-28292  
**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>NM - 05791</b>	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>NONE</b>	
2. NAME OF OPERATOR <b>ARCO Oil and Gas Company, a Division of Atlantic Richfield Co.</b>		7. UNIT AGREEMENT NAME <b>-----</b>	
3. ADDRESS OF OPERATOR <b>P.O. Box 1610, Midland, Texas 79702</b>		8. FARM OR LEASE NAME <b>Graham "B" W.N Federal</b>	
4. LOCATION OF WELL (Report clearly and in accordance with any State requirements.) At surface <b>1485' FSL &amp; 1517' FWL (Unit Letter K)</b> At proposed Prod. zone <b>Approximately the same</b>		9. WELL NO. <b>#9</b>	
13. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE <b>approximately 18 miles SE of Blanco, New Mexico</b>		10. FIELD AND POOL, OR WILDCAT <b>Basin-Fruitland Coal Gas Pool</b>	
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any) <b>1123'</b>		11. SEC., T., M., OR BLK. AND SURVEY OR AREA <b>K Sec 3, T27N-R8W</b>	
16. NO. OF ACRES IN LEASE <b>2564 1121.95</b>		12. COUNTY <b>San Juan</b>	
17. NO. OF ACRES ASSIGNED TO THIS WELL <b>320.62 320 W/2</b>		13. STATE <b>NM</b>	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>677'</b>		20. ROTARY OR CABLE TOOLS <b>Rotary</b>	
19. PROPOSED DEPTH <b>2207'</b>		22. APPROX. DATE WORK WILL START <b>Spud 11/90</b>	
21. ELEVATIONS (Show whether GR or KB) <b>5853.0' GR</b>		This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	
23. <b>PROPOSED CASING AND CEMENTING PROGRAM</b>			

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	500'	384 cuft/325 SX
7-7/8"	5-1/2"	15.5#	2207'	478 cuft/300 SX

It is proposed to drill a 12-1/4" hole to 500' using fresh water spud mud. After setting surface casing, the shoe will be drilled out with a 7-7/8" bit, continuing to TD. A low solids, fresh water gel/polymer mud system will be utilized. A water loss of less than 20cc will be maintained 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/CAL/FDC will be run and 5-1/2" production casing will be set and cemented to surface.

Pursuant to the "Onshore Oil and Gas Order #1" attachments are as follows:

1. Certified Location Plat
2. Drilling Plan with attachments
3. Surface Use Plan with attachments

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 Kenneth Gosnell TITLE Regulatory Coordinator DATE 9-14-90  
(This space for Federal or State Use)  
PERMIT NO. RECEIVED APPROVAL DATE AS  
APPROVED BY RECEIVED TITLE DATE  
CONDITIONS OF APPROVAL OCT 1 1990

OIL CON. DIV.  
DIST. 3

NMOCD

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

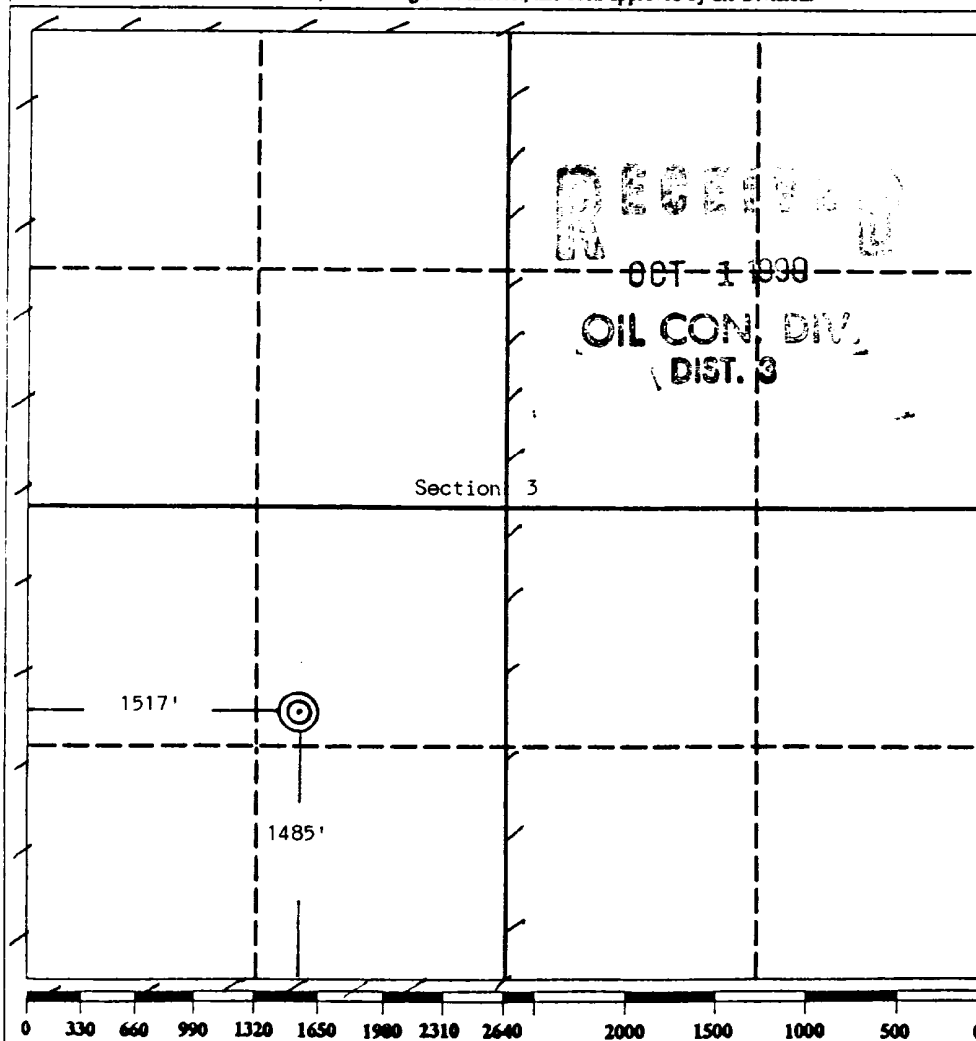
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator ARCO Oil and Gas Company			Lease Graham "B" W.N. Federal		Well No. 9
Unit Letter K	Section 3	Township 27 North	Range 8 West	County San Juan	
Actual Footage Location of Well: 1485 feet from the South line and 1517 feet from the West line					
Ground level Elev. 5853	Producing Formation Fruitland	Pool Basin-Fruitland Coal Gas Pool			Dedicated Acreage: 320.62 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature  
Ken W. Gosnell  
Printed Name  
Ken W. Gosnell  
Position  
Regulatory Coordinator  
Company  
ARCO Oil & Gas Co.  
Date  
9-14-90

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
August 1, 1990  
Signature & Seal of Professional Surveyor  
Edgar L. Risenhoover  
NEW MEXICO  
15979  
Edgar L. Risenhoover  
REGISTERED LAND SURVEYOR

