

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

30-045-28002

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>SF - 080917</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</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>Atlantic Fruitland 5</b>
4. LOCATION OF WELL (Report clearly and in accordance with any State requirements.) At surface <b>1715' FNL &amp; 1035' FEL (Unit Letter H)</b> At proposed Prod. zone <b>Approximately the same</b>		9. WELL NO. <b>#1</b>
13. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE <b>4 miles NE of Aztec, 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 drig. line, if any) <b>391'</b>	16. NO. OF ACRES IN LEASE <b>2538.18</b>	11. SEC., T., M., OR BLK. AND SURVEY OR AREA <b>H Sec 5, T30N-R10W</b>
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>247'</b>	19. PROPOSED DEPTH <b>3012'</b>	12. COUNTY <b>San Juan</b>
21. ELEVATIONS (Show whether GR or KB) <b>6256' GR</b>		13. STATE <b>NM</b>
22. APPROX. DATE WORK WILL START <b>Spud 7/90</b>		17. NO. OF ACRES ASSIGNED TO THIS WELL <b>322.11-320 N/2</b>
23. PROPOSED CASING AND CEMENTING PROGRAM <b>This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4</b>		20. ROTARY OR CABLE TOOLS <b>Rotary</b>

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	900' 500'	3250 cuft
7-7/8"	5-1/2"	15.5#	3012'	1200 cuft

It is proposed to drill a 12-1/4" hole to 300' 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 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 production 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, and probable preventer program, if any.

24. SIGNED Kent Gossnell 915 688-5672 TITLE Regulatory Coordinator DATE 5-16-90  
(This space for Federal or State Use)

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

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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.

RECEIVED  
JUL 16 1990  
OIL CON. DIV. I  
DIST. 3

APPROVED

JUL 10 1990  
AREA MANAGER

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  
Santa Fe, New Mexico 87504-2088

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

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

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

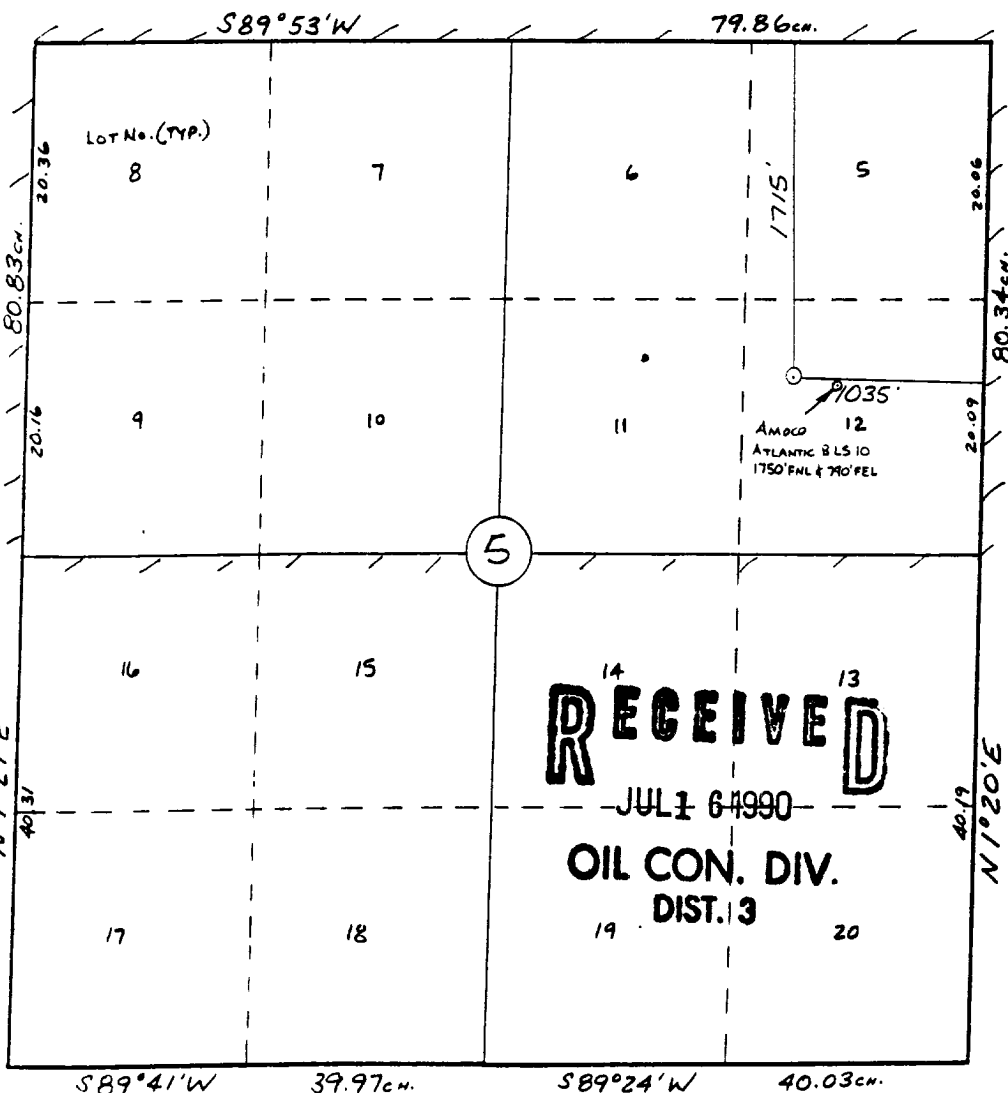
WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator ARCO OIL & GAS COMPANY			Lease ATLANTIC FRUITLAND 5		Well No. 1
Unit Letter H	Section 5	Township 30 N	Range 10 W	County San Juan	
Actual Footage Location of Well: 1715 feet from the North line and 1035 feet from the East line					
Ground level Elev. 6256	Producing Formation Fruitland		Pool Basin-Fruitland Coal Gas Pool		Dedicated Acreage: N/2 320.22-11 320.22 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.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0



OPERATOR CERTIFICATION

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

Signature  
Joe I Talley  
Printed Name  
Joe I Talley  
Position  
Drilling Engineer  
Company  
ARCO Oil & Gas  
Date  
4/23/90

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.

4-16-90

Date Surveyed  
William F. Mahnke II

Signature & Seal of Professional Surveyor  
WILLIAM F. MAHNKE II  
NEW MEXICO  
#8466  
Certified No. 8466  
PROFESSIONAL LAND SURVEYOR

ATLANTIC FRUITLAND 5 #1  
EXHIBIT 4B  
EXISTING ROADS

North  
South

ONE MILE

Arroyo  
Fork

GAS FIELD

ARCO OIL & GAS COMPANY  
ATLANTIC FRUITLAND #5-1  
1715' FNL & 1035' FFL  
Sec. 5, T30N, R10W  
San Juan Co., N.M.

AZTEC QUADRANGLE  
NEW MEXICO-SAN JUAN CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)

ARCO OIL & GAS COMPANY  
ATLANTIC FRUITLAND #5-1  
1715'FNL & 1035'FEL  
Sec.5, T30N, R10W  
San Juan Co., N.M.

AZTEC QUADRANGLE  
NEW MEXICO-SAN JUAN CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)