

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ OTHER

SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

ARCO Oil and Gas Company, a Division of Atlantic Richfield Co.

3. ADDRESS OF OPERATOR

P.O. Box 1610, Midland, Texas 79702

4. LOCATION OF WELL (Report clearly and in accordance with any State requirements.)

At surface 2230' FNL & 1350' FEL (Unit letter G)

At proposed Prod. zone Approximately the same

5. LEASE DESIGNATION AND SERIAL NO.

SF - 078480

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NONE

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hammond W.N Federal

9. WELL NO.

#12

10. FIELD AND POOL, OR WILDCAT

Basin-Fruitland Coal Gas

11. SEC., T., M., OR BLK.  
AND SURVEY OR AREA

G Sec 35, T27N-R8W

12. COUNTY

San Juan

13. STATE

NM

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. line, if any)

1290'

16. NO. OF ACRES IN LEASE

2580 1280

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320, E/2

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL,  
DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

455'

19. PROPOSED DEPTH

2911'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether GR or KB)

6083.0' GR

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4

22. APPROX. DATE WORK WILL START

Spud 11/90

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#             | 500'          | 384 cuft/325 SX    |
| 7-7/8"       | 5-1/2"         | 15.5# vb vl     | 2911'         | 631 cuft/385 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 Ken W. Sosnell TITLE Regulatory Coordinator DATE 9-14-90  
(This space for Federal or State Use)

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

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

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

OCT 9 1990

NMCOIL CON. DIV.

\*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

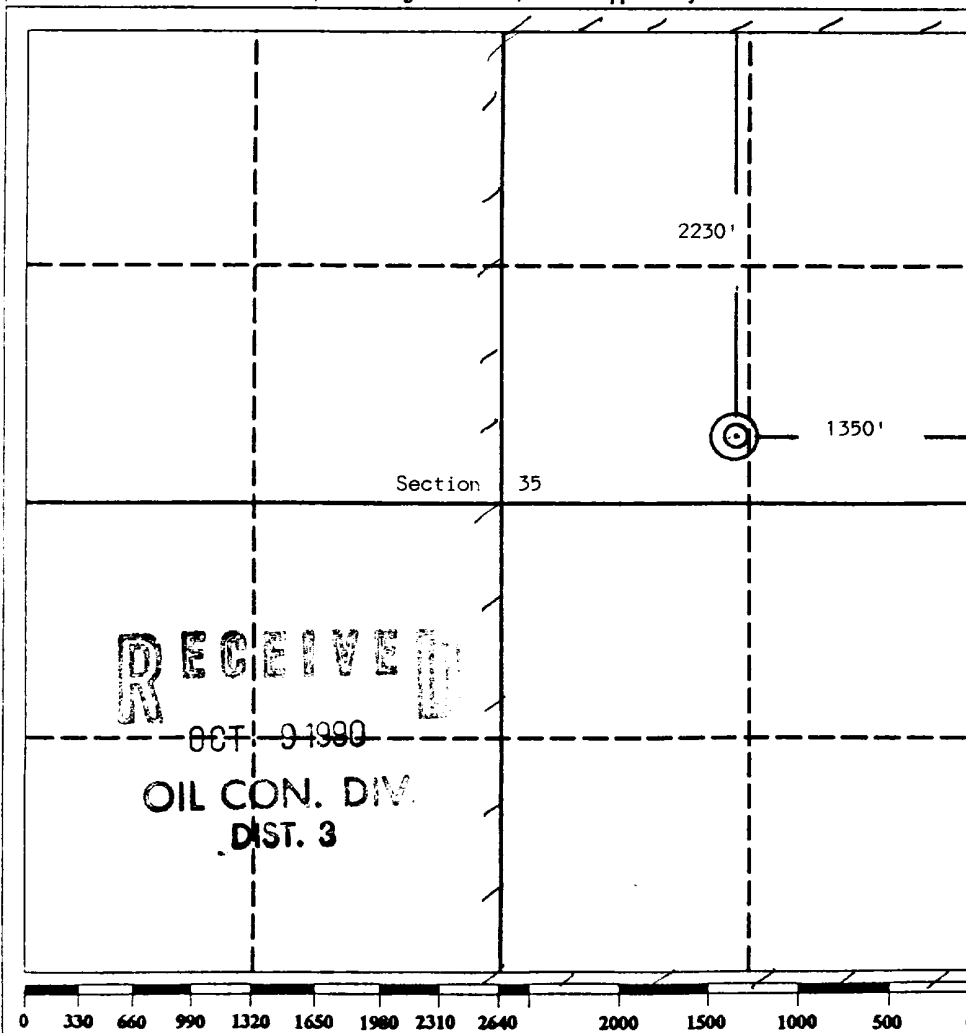
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|  |                                  |                              |                             |                                 |                |
|--|----------------------------------|------------------------------|-----------------------------|---------------------------------|----------------|
| Operator<br>ARCO Oil and Gas company   |                                  |                              | Lease<br>Hammond WN Federal |                                 | Well No.<br>12 |
| Unit Letter<br>G   | Section<br>35                    | Township<br>27 North         | Range<br>8 West             | County<br>NM PM San Juan        |                |
| Actual Footage Location of Well:<br>2230 feet from the North line and 1350 feet from the East line |                                  |                              |                             |                                 |                |
| Ground level Elev.<br>6083   | Producing Formation<br>Fruitland | Pool<br>Basin-Fruitland Coal |                             | Dedicated Acreage:<br>320 Acres |                |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. 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 8, 1990

Signature & Seal of  
Professional Surveyor

EDGAR L. RISENHOOVER  
NEW MEXICO  
5979  
Certified Professional Surveyor  
Edgar L. Risenhoover

ARCO Hammond W.N FED #12  
Exhibit 4A  
Existing Roads

