

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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,  
~~Division of Atlantic Richfield Company~~

## 3. ADDRESS OF OPERATOR

Suite 501, 1860 Lincoln Street  
Denver, Colorado 80295

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

At surface

2150' FSL & 1050' FWL Section 5 (NW SW) (Unit L)  
At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

See attached NTL-6

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST 4230' f/lse line  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

2611.20

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT. approx. 1000'  
f/well in SW/4

## 19. PROPOSED DEPTH

7475'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.) Sec. 5

6741' GL (Ungraded)

## 22. APPROX. DATE WORK WILL START\*

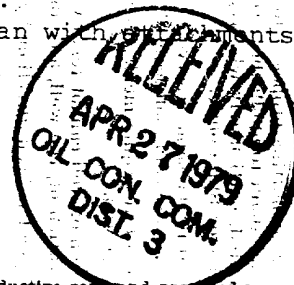
When approved application  
rec'd. approx. May 26, 1979

## 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" OD      | 24#             | 300'          | 300 sx. (cement to surface) |
| 7-7/8"       | 5-1/2" OD      | 15.5 & 17#      | T. D.         | 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 both the Dakota and Gallup Formations are productive, will perforate, test and treat if necessary and commingle production from the Dakota and Gallup Formations.

Fursuant to NTL-6, attached are: Certified Location Plat.  
Drilling Plan with attachment.  
Surface Use and Operations 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

TITLE Operations Manager

DATE April 24, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

RECEIVED

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APR 26 1979

U. S. GEOLOGICAL SURVEY  
DENVER, COLO.

\*See Instructions On Reverse Side

## Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

|                                                                                                                                                                                                               |                                             |                                            |                                        |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------|----------------------------------------|-----------------------------|
| Operator<br><b>ARCO OIL and GAS COMPANY *</b>                                                                                                                                                                 |                                             | Lease<br><b>JICARILLA CONTRACT #111</b>    |                                        | Well No.<br><b>103</b>      |
| Unit Letter<br><b>L</b>                                                                                                                                                                                       | Section<br><b>5</b>                         | Township<br><b>24 NORTH</b>                | Range<br><b>4 WEST</b>                 | County<br><b>RIO ARriba</b> |
| Actual Footage Location of Well:<br><div style="display: flex; justify-content: space-between;"> <span>2150 feet from the <b>SOUTH</b> line and</span> <span>980 feet from the <b>WEST</b> line</span> </div> |                                             |                                            |                                        |                             |
| Ground Level Elev.<br><b>6745</b>                                                                                                                                                                             | Producing Formation<br><b>Gallup-Dakota</b> | Pool<br><b>West Lindrith Gallup-Dakota</b> | Dedicated Acreage:<br><b>160</b> 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).  

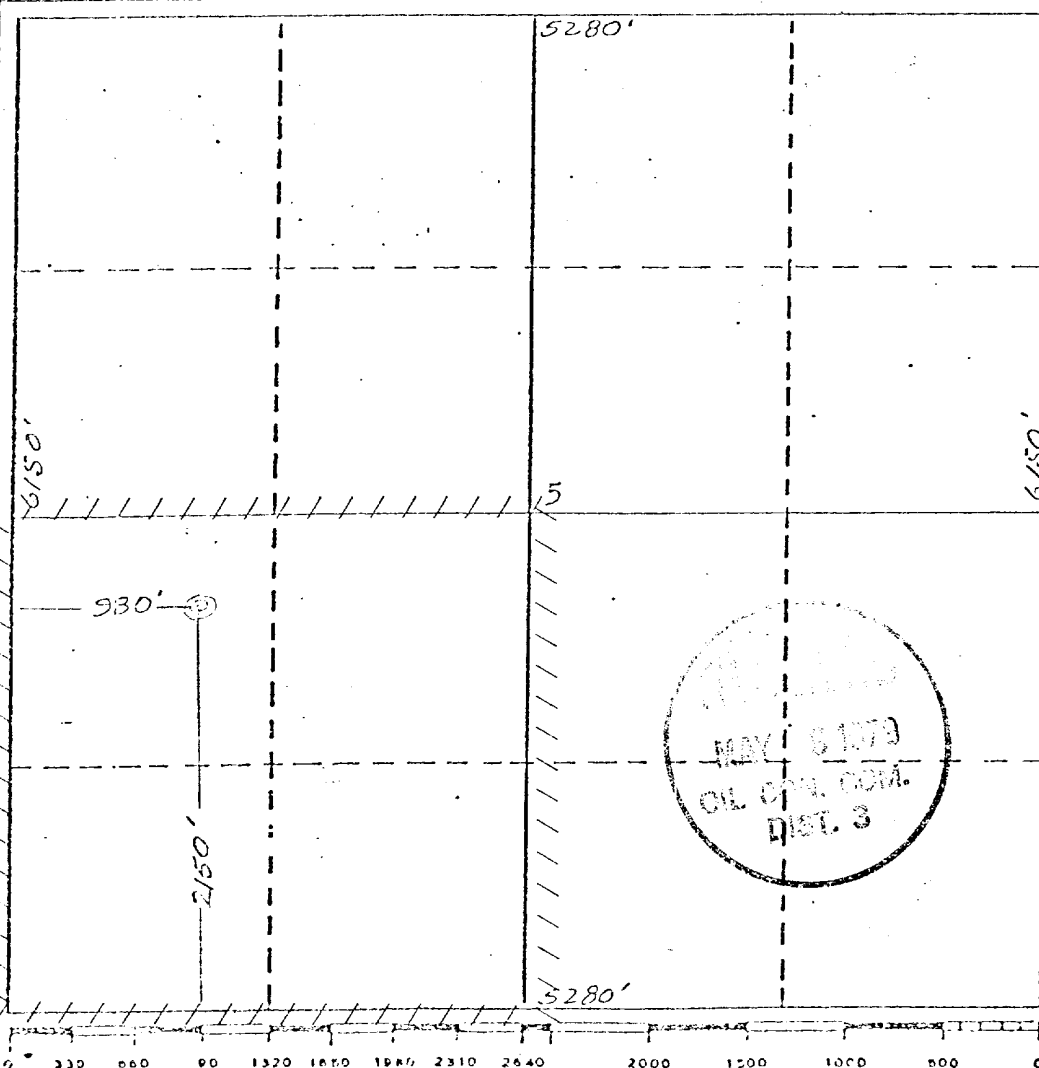
N/A
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?  

N/A

☐ 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 interests, has been approved by the Commission.

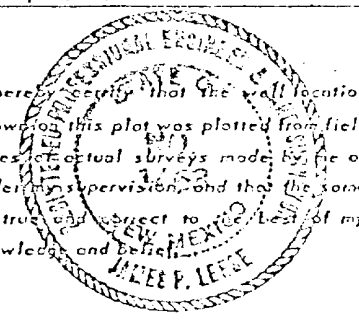


**CERTIFICATION**

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

Name W.A. Walther, Jr.  
 Position Operations Manager  
 Company ARCO Oil and Gas Company  
 Division of Atlantic Richfield  
 Date May 7, 1979

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 20 April 1979  
 Registered Professional Engineer and/or Land Surveyor  
James P. Leese

Certificate No. **1463**

