

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                                                                                                                         |                                                                     |                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|
| 1a. TYPE OF WORK<br>DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>                                                                                        |                                                                     | 5. LEASE DESIGNATION AND SERIAL NO.<br>11-20-603-2037                |
| b. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> |                                                                     | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME<br>Navajo                       |
| 2. NAME OF OPERATOR<br>Atlantic Richfield Company                                                                                                                                                                       |                                                                     | 7. UNIT AGREEMENT NAME<br>Horseshoe Gallup Unit                      |
| 3. ADDRESS OF OPERATOR<br>501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203                                                                                                                                |                                                                     | 8. FARM OR LEASE NAME<br>Horseshoe Gallup Unit                       |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)<br>At surface<br>Unit "A" - 200' E/North & 200' E/East lines Sec. 25<br>At proposed prod. zone<br>Approx same              |                                                                     | 9. WELL NO.<br>288                                                   |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*<br>Approx 3 mi east & 10 mi NE of Shiprock, N.M.                                                                                                  |                                                                     | 10. FIELD AND POOL, OR WILDCAT<br>Horseshoe Gallup Unit              |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)<br>200' E/Tr.15 line                                                                              | 16. NO. OF ACRES IN LEASE<br>Tr.15 - 880 Ac.<br>Unit - 13,527.80 Ac | 17. NO. OF ACRES ASSIGNED TO THIS WELL<br>NA - Untitled 40           |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.<br>650' E/#119                                                                                            | 19. PROPOSED DEPTH<br>1650'                                         | 20. ROTARY OR CABLE TOOLS<br>rotary                                  |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>5749' GL                                                                                                                                                              |                                                                     | 22. APPROX. DATE WORK WILL START*<br>When appl rec'd<br>Est. 11/5/75 |

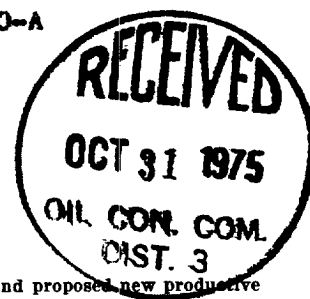
## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT      |
|--------------|----------------|-----------------|---------------|-------------------------|
| 12-1/4"      | 8-5/8"         | 21#             | 120'          | 120 ax (Cst to surface) |
| 7-7/8"       | 5-1/2"         | 11#             | T.D.          | 225 ax                  |

Propose to drill well to depth sufficient to test the Gallup Formation. Est. tops: Upper Gallup 1115', Lower Gallup 1530'. Will set 8-5/8" OD casing at approx 120' and cement to surface; drill 7-7/8" hole to T.D. and log; If productive, set 5-1/2" OD casing with sufficient cement to protect all zones. Productive zone(s) will be perforated, treated if necessary, and well completed.

Re: New Mexico Oil Conservation Commission Order No. 4-2210 and 4-2210-A

Attachments: Certified Location Plat  
Pertinent Drilling Information  
Development Plan For Surface Use w/ Att.



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 W. A. Walther, Jr. TITLE 1st. Prod. & Drlg. Supt. DATE 10/28/75  
(This space for Federal or State office use)

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

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

RECEIVED  
OCT 30 1975

U. S. GEOLOGICAL SURVEY  
WASHINGTON, D. C.

## 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.

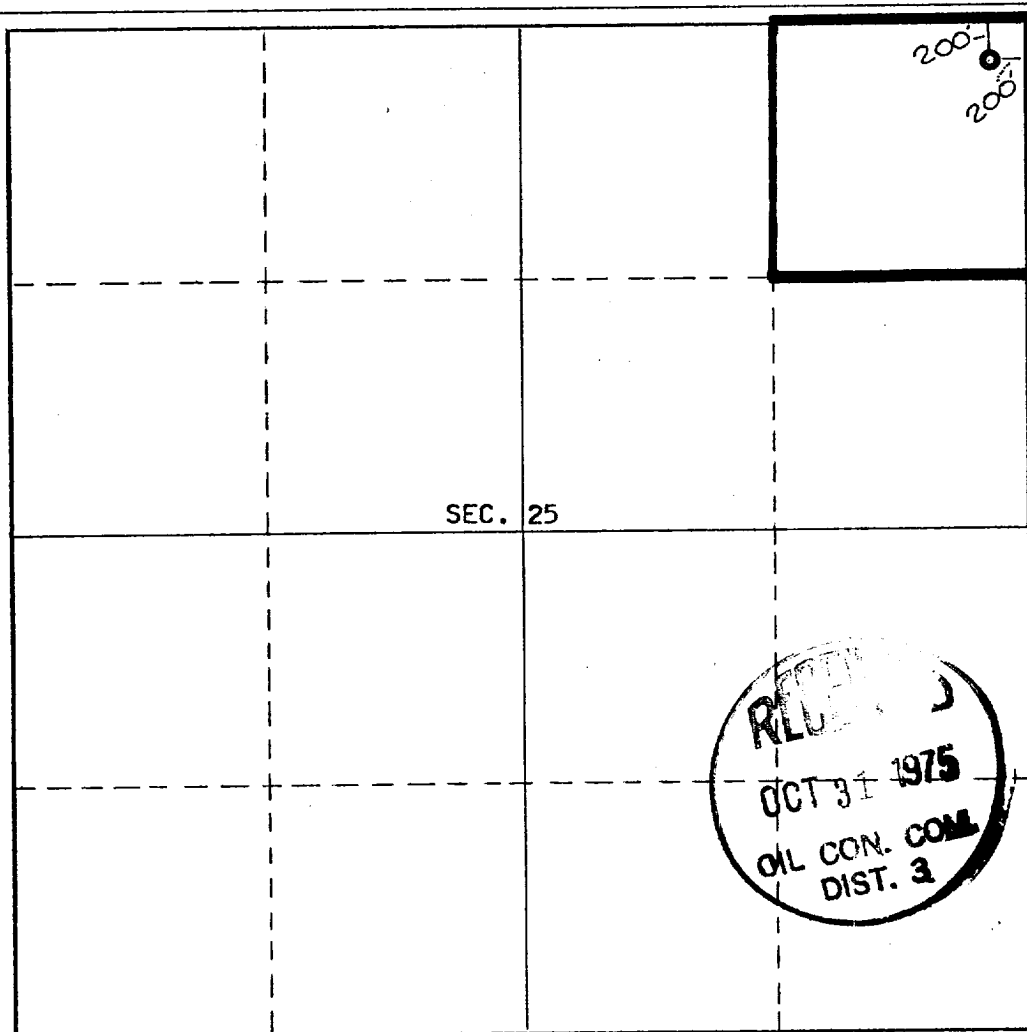
Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**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>Atlantic Richfield Company</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |                                 | Lease<br><b>Horseshoe Gallup Unit</b> |                                                                                              | Well No.<br><b>288</b> |
| Unit Letter<br><b>A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Section<br><b>25</b>                 | Township<br><b>31 North</b>     | Range<br><b>17 West</b>               | County<br><b>San Juan</b>                                                                    |                        |
| Actual Footage Location of Well:<br><div style="display: flex; justify-content: space-between;"> <span><b>200</b> feet from the <b>North</b> line and</span> <span><b>200</b> feet from the <b>East</b> line</span> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                                 |                                       |                                                                                              |                        |
| Ground Level Elev.<br><b>5749</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Producing Formation<br><b>Gallup</b> | Pool<br><b>Horseshoe Gallup</b> |                                       | Dedicated Acreage;<br><b>NA- Unitized</b> <span style="float: right;"><b>40</b> Acres</span> |                        |
| <p>1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</p> <p>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).</p> <p>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?</p> <p><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    If answer is "yes," type of consolidation <u><b>Unitization</b></u></p> <p>If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>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.</p> |                                      |                                 |                                       |                                                                                              |                        |



|                                                                                                                     |                                      |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>CERTIFICATION</b>                                                                                                |                                      |
| I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. |                                      |
| Name                                                                                                                | <i>W. A. Walther, Jr.</i>            |
| Position                                                                                                            | <b>W. A. Walther, Jr.</b>            |
|                                                                                                                     | <b>Dist. Prod. &amp; Drlg. Supt.</b> |
| Company                                                                                                             | <b>ATLANTIC RICHFIELD COMPANY</b>    |
| Date                                                                                                                | <b>Oct. 28, 1975</b>                 |
| <p align="center"> </p>                                                                                             |                                      |
| Date Surveyed                                                                                                       | <b>October 7, 1975</b>               |
| Registered Professional Engineer and/or Land Surveyor                                                               |                                      |
| <i>E. V. Echohawk</i>                                                                                               |                                      |
| Certificate No.                                                                                                     | <b>3602</b>                          |
| <b>E. V. Echohawk LS</b>                                                                                            |                                      |

