

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
Atlantic Richfield Company

3. ADDRESS OF OPERATOR
501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
Unit 'B' - 150' f/North & 1375' f/East lines Sec. 33
At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approx. 3 miles east & 7 miles NE f/Shiprock, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
Approx 55' f/Tr. 20 line

16. NO. OF ACRES IN LEASE
Tr. 19 1815.77

17. NO. OF ACRES ASSIGNED TO THIS WELL
40 acres

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
Approx 791' NE f/well #178

19. PROPOSED DEPTH
1600'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5498' Ground level, ungraded

22. APPROX. DATE WORK WILL START*
7-5-74

5. LEASE DESIGNATION AND SERIAL NO.
14-20-604-1951

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo & Ute Mountain

7. UNIT AGREEMENT NAME
Horseshoe Gallup Unit

8. FARM OR LEASE NAME
Horseshoe Gallup Unit

9. WELL NO.
283

10. FIELD AND POOL, OR WILDCAT
Horseshoe Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 33-31N-16W

12. COUNTY OR PARISH
San Juan

13. STATE
N. Mexico

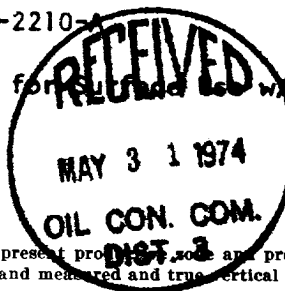
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11-1/2"	7-5/8"	26.4#	120'	120 sx (cement to surface)
6-3/4"	4-1/2"	10.5# & 11.6#	T.D.	250 sx

Propose to drill well to depth sufficient to test the Gallup formation. Est. top of Upper Gallup @ 1400'. Will set 7-5/8" surface casing w/sufficient cement to circulate to surface; will drill 6-3/4" hole to T.D. and log; if productive, set 4-1/2" production casing and cement w/sufficient cement to protect all zones. Productive zones will be perforated, treated if necessary, and well completed.

Re: New Mexico Oil Conservation Commission Order No. R-2210-1

Attachments: Certified Location Plat, Development Plan for surface well, and 7 Point Drilling Plan



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. Give blowout preventer program, if any.

24.

SIGNED [Signature] TITLE Dist. Prod. & Drlg. Supt. DATE May 29, 1974

(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

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 special 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 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 1-1-12
Supersedes C-128
Effective 1-1-65

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

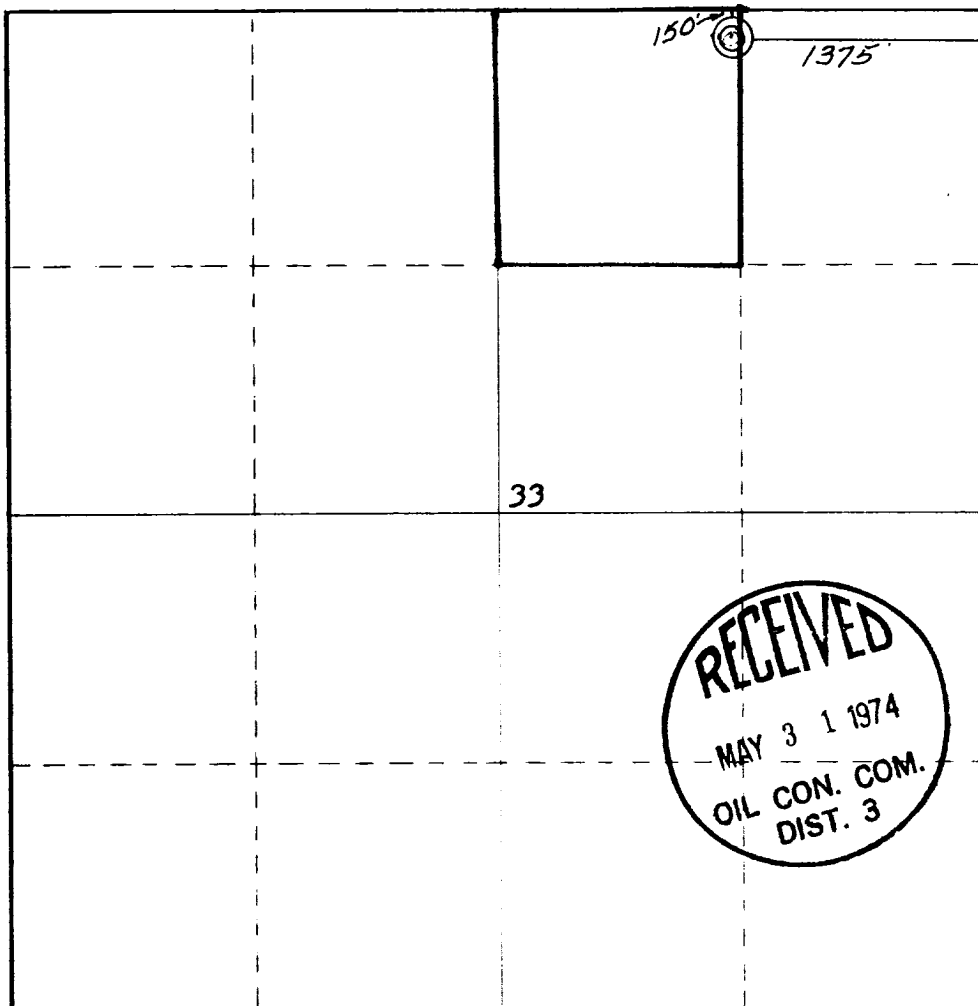
Operator THE ATLANTIC RICHFIELD COMPANY		Lease HORSESHOE GALLUP UNIT		Well No. 283
Unit Letter B	Section 33	Township 31 NORTH	Range 16 WEST	County SAN JUAN
Actual Footage Location of Well:				
150 feet from the NORTH line and		1375 feet from the EAST line		
Ground Level Elev. 5498	Producing Formation Gallup - Oil	Pool Horseshoe Gallup	Estimated Acreage 40 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes" type of consolidation **Unitization**

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.



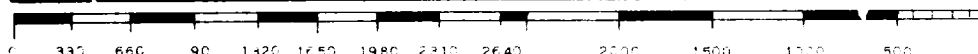
CERTIFICATION

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

W. A. Walther, Jr.
Name
W. A. Walther, Jr.
Position
Dist. Prod. & Dril. Supt.
Company
Atlantic Richfield Company
Date
May 29, 1974

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.

James P. Lease
Date
8 April 1974
Name
James P. Lease
Number
1463



7 POINT DRILLING PLAN

Horseshoe Gallup Unit - Well #283

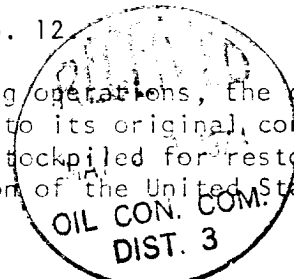
1. Surface Casing: 7-5/8" OD, 26.4#, K-55, LT&C, N, 120'
2. Casing Head: 7-5/8" x 10", Ser. 600 (2000# WP, 4000# T) Oct C-22, or
4-1/2" x 10" (2-2" 10" pipe) or 4-1/2" x 10" pipe
3. Intermediate Casing: None
4. Blowout Preventers: Type - Ram Type
Series - Ser. 600 (2000# WP, 4000# T) or greater
No. of Rams - Two; one blind ram and one pipe ram for
4-1/2" OD drill pipe. No other size drill
pipe is anticipated to be used.
Manufacturer - Cameron or Shaffer, hydraulic operated
Fill, kill and choke line will be 2000# WP, or greater,
connected below rams on BOP
Blowout Equipment will be pressure tested to 500 psi be-
fore drilling out of casing and operational
check will be made daily
5. Auxilliary Equipment: Kelly cock
Drilling Head - Shaffer Type 50, or equivalent
Sub with full opening valve on floor for use when
Kelly not in hole
6. Anticipated Bottom Hole or Maximum Expected Pressure: 800#
7. Drilling Fluid: Surface - Water & gel w/lime to maintain clean hole for
running casing
Below Surface - Water w/necessary gel and chemicals to main-
tain drillable hole. 9.0# ppg, viscosity
as required, 10# water loss, LCM if required

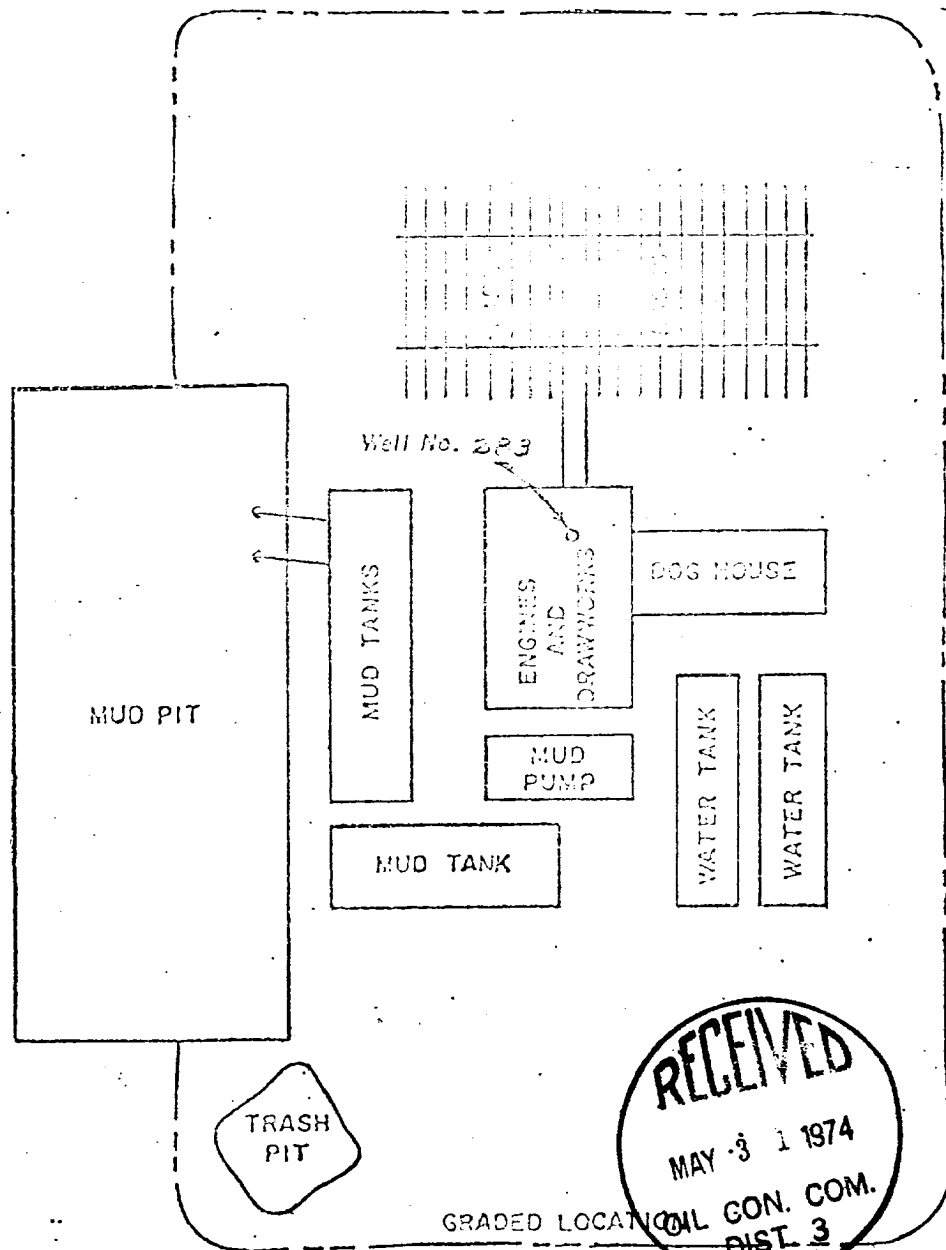
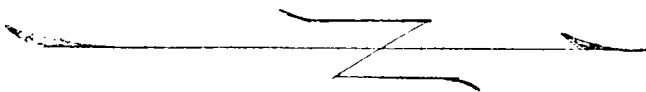


12 POINT - DEVELOPMENT PLAN FOR SURFACE USE

Horseshoe Gallup Unit - Well # 283

1. Existing Roads: Attached are the Chimney Rock (1934), Heifer Point (1963) and Waterflow (1963) topographic maps, and a Unit Area "Road Detail" map.
2. Planned Access Roads: The main access road extends northeastward from a "turn-off" from Highway 550, approximately 3 miles east from Shiprock, New Mexico. This road is marked in "red" on the attached Chimney Rock topographic map to the south line of Section 31-31N-16W. From this point, please refer to the attached "Road Detail". Road construction will be kept to a minimum and will consist of only roads from existing lease roads to the proposed location. Roads to be constructed are highlighted in "yellow" on the "Road Detail" map.
3. Existing Wells: All known wells are shown on both the "Road Detail" and "Line Detail" maps.
4. Lateral Roads to Well Locations: Lateral roads from existing lease roads to proposed locations are shown on the "Road Detail" map, highlighted in "yellow".
5. Location of Tank Batteries and Flow Lines: The attached "Line Detail" map shows the location of existing tank batteries, flow lines and injection lines. Proposed location and flow lines are marked in "yellow".
6. Location and Type of Water Supply: Water supply for drilling will be from Water Supply Well #2-W (Green on "Line Detail" map). Water for cementing operations will be from ditch at turnoff of access road from Highway 550 (Green on topography map).
7. Methods for Handling Waste Disposal: Cuttings to be disposed of in reserve pit, a burn pit to be used for disposal of trash, garbage, etc., and covered on cleanup of location.
8. Location of Camps: None.
9. Location of Airstrips: None.
10. Rig Layout: Per the attached drawing. Also see No. 12.
11. Restoration of Surface: Upon completion of drilling operations, the disturbed surface area will be restored as near as practical to its original contours. If sufficient top soil is encountered, it will be stockpiled for restoration of surface. Restoration will be to the satisfaction of the United States Geological Survey.
12. Slope on this location is from north to south and a cut on the north side, some fill on the south side, will be required. The surface is rocky with some top soil. Vegetation is primarily "bunch" grass, no trees and very little sage brush. The surrounding area is comparable and any disturbance to wildlife will be only temporary. With the restoration of surface, surface damage will be minimal.





RECEIVED
MAY 31 1974
OIL CON. COM.
DIST. 3

Accus
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