

(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

| | | |
|---|--|--|
| 1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER | | 4. LEASE DESIGNATION AND SERIAL NO. 14-20-603-4909 |
| 2. NAME OF OPERATOR ARCO OIL & GAS COMPANY, A Division of Atlantic Richfield. | | 5. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo |
| 3. ADDRESS OF OPERATOR 1816 E. Mojave, Farmington, NM 87401 | | 7. UNIT AGREEMENT NAME Horseshoe Gallup Unit |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface | | 8. FARM OR LEASE NAME Horseshoe Gallup |
| 14. PERMIT NO. 330 FSL, 330 FWL | | 9. WELL NO. 260 |
| 15. ELEVATIONS (Show whether ss, vt, cm, etc.) 5558' (GR) | | 10. FIELD AND POOL, OR WILDCAT Horseshoe Gallup |
| | | 11. SEC., T., R., N., OR S.E. AND SURVEY OR AREA Sec. 2, T30N, R16W |
| | | 12. COUNTY OR PARISH San Juan |
| | | 13. STATE NM |

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
|-------------------------|-------------------------------------|---|--------------------------|
| TEST WATER SHUT-OFF | <input type="checkbox"/> | WATER SHUT-OFF | <input type="checkbox"/> |
| FRACURE TREAT | <input type="checkbox"/> | FRACURE TREATMENT | <input type="checkbox"/> |
| SHOOT OR ACIDIZE | <input type="checkbox"/> | SHOOTING OR ACIDIZING | <input type="checkbox"/> |
| REPAIR WELL | <input type="checkbox"/> | (Other) | <input type="checkbox"/> |
| (Other) | <input type="checkbox"/> | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | <input type="checkbox"/> |
| PCLL OR ALTER CASING | <input type="checkbox"/> | REPAIRING WELL | <input type="checkbox"/> |
| MULTIPLE COMPLETE | <input type="checkbox"/> | ALTERING CASING | <input type="checkbox"/> |
| ABANDON* | <input checked="" type="checkbox"/> | ABANDONMENT* | <input type="checkbox"/> |
| CHANGE PLANS | <input type="checkbox"/> | | |

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well will be plugged upon ARCO receiving Co-Owner approval.
A proposed plugging procedure is attached for your review and approval.
Once plugging is complete, reseeding will be completed per BLM standards.

RECEIVED
SEP 23 1988
OIL CON. DIV.
DIST. 3

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

18. I hereby certify that the foregoing is true and correct

| | | |
|--|------------------------------------|---|
| SIGNED <u>Ben J. Pinn</u> | TITLE <u>Production Supervisor</u> | DATE <u>9-13-88</u> |
| (This space for Federal or State office use) | | |
| APPROVED BY _____ | TITLE _____ | DATE <u>SEP 20 1988</u> |
| CONDITIONS OF APPROVAL, IF ANY: | | <u>James E. Edwards</u> AREA MANAGER |

*See Instructions on Reverse Side

CURRENT WELLBORE CONFIGURATIONSPUDED: 02/02/59UNIT: M SEC: 2 TWSP: 30N RG: 16WCOMPLETED: 03/07/59LOCATION: 330' FSL & 330' FWLGL: 5558' KB: 5566'TUBING:DATE LAST PULLED: 08/03/65

| | |
|-------------------------|----------|
| 48 JTS: 2-3/8" 8RD J-55 | 1493.09' |
| 4 JTS: Pitted 2-3/8" | 123.32' |
| 1 JTS: Good JT 2-3/8" | 31.66' |
| 1 SN: | 1.10' |
| 1 Mad Anchor | 11.55' |
| | 1660.72' |
| | 8.00' |
| | 1668.72' |

SURFACE CASING:3 JTS: 8-5/8" 28# J-55 (108'
SET @ 108' W/103 SX cmt.PRODUCTION CASING5-1/2" 15.5# (1734')
Cmt'd w/100 sx cmt.RODS:DATE LAST PULLED: 03/08/66

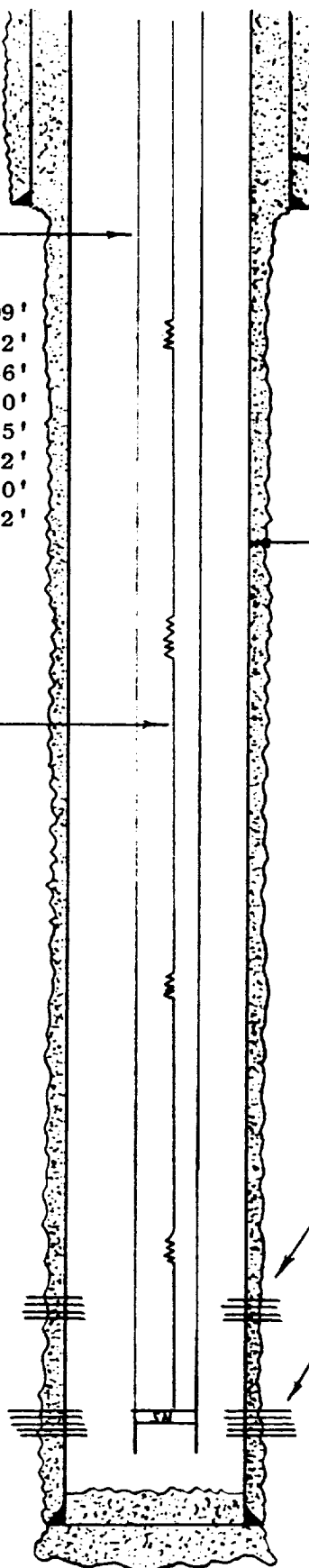
1 POLISHED ROD 1-1/8" X 11'
 1 PONY 5/8" X 6'
 32 RODS 5/8" X 25' w/Crawl Scrapers
 1 PONY 5/8" X 6' w/Huber Scrapers
 33 RODS 5/8" X 25' w/Crawl Scrapers
 1 PONY 5/8" X 6'

PUMP:DATE LAST PULLED: 03/08/66PUMP DEPTH: 1649'2" X 1-1/2" X 8' Insert pump w/top
hold down.PERFORATIONS:

1512'-1558' w/4spf

1644'-1650' w/4spf

PED: _____

TD: 1734'

**HORSESHOE GALLUP UNIT PRODUCING WELLS
PLUGGING AND ABANDONMENT PROCEDURE**

- 1) Move pumping unit off location.
- 2) MIRU. Pull rods and downhole pumping equipment.
- 3) RIH below the bottom perforation w/tbg. open ended. Pump sufficient cement inside casing to cover top perforation by 50'.
- 4) POH w/tbg. GIH w/wireline and perforate casing as specified by New Mexico Oil Commission. Number of shots should be sufficient to allow cement squeeze. POH w/wireline. GIH w/tbg. open ended. Squeeze cement to provide plug inside and outside of casing to surface. *Perf @ 158'*
- 5) POH w/tbg. Cut casing one foot below ground level. Weld a blind flange to casing, and weld a dry hole marker on blind flange. Fill hole and move off.
- 6) Rehabilitate location and access road using stipulations supplied by the Bureau of Land Management.

BUREAU OF LAND MANAGEMENT
1235 La Plata Highway
Farmington, New Mexico 87401
Phone (505) 327-5344

Attachment to Notice of
Intention to Abandon

Re: Permanent Abandonment

Well: 260 Horseshoe Gulch Unit

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal Leases."
2. Bill Blackwell with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 327-5344.
3. Blowout prevention equipment is required.
4. The following modifications to your plugging program are to be made (when applicable):

Office Hours: 7:45 a.m. to 4:30 p.m.

GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON RESOURCE AREA

1. Secure prior approval either on a Sundry Notice (Form 3160-5) or verbally from the Fluids Drilling & Production Section at this office before changing the approved plugging program.

2. Plugging equipment used shall have separate mixing and displacement pumps and a calibrated tank to assure proper displacement of plugs. The Operator is responsible for providing all measuring devices needed to assure proper measurement of materials being used.

3. A proper tank or pit will be used to contain all fluids pumped from the well during plugging operations. Unattended pits are to be fenced.

4. All cement plugs are to be placed through tubing (or drillpipe) and shall be a minimum of 100 feet in length with 50% excess inside casing or 100% excess when plug is set in open hole or squeezed into perforations. 15.6#/gal slurry weight is to be used when using class B neat cement or when CaCl_2 is used. Use the recommended slurry weight of other type cements when they are used (Class C, Pozzolan etc.).

5. Any cement plugs placed when well is not full of fluid, or when well may be taking fluid, (i.e. across perms-unless bridge plug or retainer is used, across bad csg., or fresh water formations) will be tagged (touched) after cement has set to verify proper location.

5a. Testing The first plug below the surface plug shall generally be tested by either tagging the plug with the working pipe string, or pressuring to a minimum pump (surface) pressure of 1000 psig, with no more than a 10 percent drop during a 15-minute period (cased hole only). If the integrity of any other plug is questioned, it must be tested in the same manner. Also, any cement plug which is the only isolating medium for a fresh water interval or a zone containing a valuable mineral deposit should be tested by tagging with the drill string.

6. Mud must be placed between plugs. Plugging mud is to be made up with a minimum of 15 lbs/bbl of sodium bentonite, and a nonfermenting polymer. Minimum consistency of plugging mud must be 9 lbs/gal and with a minimum viscosity of 50 sec/qt. Fresh water is to be utilized for mixing mud.

7. Following the placement of a cement plug, the withdrawal rate for at least the length of the cement plug shall not exceed 30 ft/min, in order to minimize the contamination of the plug.