

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved
Budget Bureau No. 1004-0135
Expires August 31, 1985

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Ute Mountain

7. UNIT AGREEMENT NAME

Horseshoe Gallup Unit

8. FARM OR LEASE NAME

Horseshoe Gallup Unit

9. WELL NO.

149

10. FIELD AND POOL, OR WILDCAT

Horseshoe Gallup

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

Sec. 28-31N-16W

12. COUNTY OR PARISH 13. STATE

San Juan New Mexico

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. OIL WELL ☒ GAS WELL ☐ OTHER ☐
2. NAME OF OPERATOR ARCO Oil and Gas Company, a Division of
Atlantic Richfield Company
3. ADDRESS OF OPERATOR 707- 17th Street,
P.O. Box 5540, Denver, Colorado 80217
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
Unit "A", 530' FNL & 580' FEL, Section 28
(No API # Assigned)
14. PERMIT NO. 15. ELEVATIONS (Show whether OF, RT, GR, etc.)
5676' DF

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PLUG OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and 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.)

ARCO Oil and Gas Company, Operator, proposes to plug and abandon the subject well, as per the attached P & A Procedure.
This producer has reached its economic limit.

RECEIVED
MAY 29 1985
OIL CON. DIV.
DIST. 3

(This is in compliance with the requirements set forth in a letter from the Bureau of Land Management, Durango, Colorado, dated March 13, 1985, copy attached.)

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

SIGNED

Stephen Rose
S.C. Rose / BRS

TITLE Dist. Prod. Supt.

DATE May 8, 1985

(This space for Federal or State office use)

APPROVED BY

Jerry D. Kendrick

TITLE Acting AREA MANAGER

DATE MAY 28 1985

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
San Juan Resource Area
Federal Building
701 Camino del Rio
Durango, Colorado 81301

IN REPLY
REFER TO

3160 (163)

MAR 13 1985

CERTIFIED--RETURN RECEIPT REQUESTED

ARCO Oil and Gas Company
P. O. Box 5540
Denver, Colorado 80217

Re: Horseshoe Gallup Unit Wells
San Juan County, New Mexico
Lease No. 14-20-604-1951

Dear Sir:

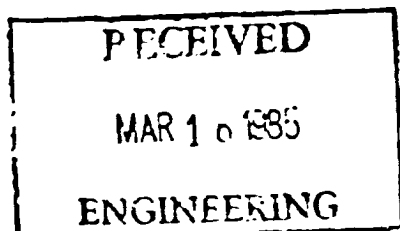
The below mentioned wells have been temporarily abandoned for an extended period of time. Please send to this office five copies of Sundry Notices (Form No. 3160-5) for each well, entitled Notice of Intent to Abandon, within 60 days from receipt of this letter. Plugging operations must commence within 60 days of approval of the Sundry Notices.

Well No. 162, Sec. 27, T.31N., R.16W
Wells No. 149, 160, 169, Sec. 28, T.31N., R.16W.
Wells No. 179, 190, Sec. 33, T.31N., R.16W.
Wells No. 180, 192, 201, 212, 214, Sec. 34, T.31N., R.16W.

If you have any questions, please contact Dennis Carpenter at (303) 247-4082.

Sincerely yours,

David J. Miller
for David J. Miller
Area Manager



RECEIVED
MAR 18 1985
B.L.M. - D.O.

HORSESHOE GALLUP UNIT #149
PLUGGING AND ABANDONMENT PROCEDURE

1. MIRU.
2. POH with production equipment.
3. RIH with tbg open-ended to below the bottom perforation and pump sufficient cement to cover top perforation by 50' inside the casing.
4. POH w/tbg. GIH w/wireline and shoot 3 to 4 holes in production string opposite 150' above top perforation to allow cement squeezing of zone. (This may be necessary since the original cement job may not have covered the Gallup formation by 50'.) Squeeze sufficient cement to place a 100' plug outside the casing. Also, leave a 100' plug inside the casing. If unable to squeeze plug outside the casing, leave a 100' plug inside the casing.
5. POH w/tbg. GIH w/wireline and shoot enough holes in production casing opposite a point 50' below the surface casing shoe to allow squeezing cement.
6. RIH w/tbg open-ended and perform a braden-head squeeze of the perforations. Use sufficient cement for a 100' column behind the casing and a 100' plug inside the casing.
7. POH, cut casing one foot below ground level, place a 30' cement plug inside casing, weld on a steel plate, weld a dry hole marker on the steel plate, fill hole and move off.
8. Rehabilitate location and access road using stipulations supplied by the surface management agency.

NOTE: BOPs will not be needed in most cases because expected reservoir pressure of the Gallup in the area of abandonment is very low. If pressure does exist on any of the subject wells, bleed it off, install BOPs if needed, and commence with above procedure.

HORSESHOE GALLUP #149

CURRENT WELL STATUS

History

The HGU #149 located in San Juan County, New Mexico was drilled to a depth of 1750' and completed as a Gallup oil well in September 1959. This well was shut-in during August 1964 due to an uneconomical operation.

Existing Well Status

Casing:

Surface: 8-5/8", 24#/ft, J-55 ST&C set @ 101' cemented to surface w/100 sx cement.

Production: 5-1/2", 15.5#/ft, J-55 STC set @ 1660' cemented w/100 sx Pozmix.

Tubing: 2-3/8", J-55, EUE 8rd

Packer: None

Perforations: 1578' - 1600' @ 2 SPF within the Gallup formation.

Proposed Plugs: 1st Plug: 1525' - 1625'
2nd Plug: 1325' - 1425'
3rd Plug: 50' - 155'
4th Plug: 0' - 30'

MBS
JEO 5-16-85
JMM 5/17