

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

Form approved.  
Budget Bureau No. 1004-0135  
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. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-604-1951
2. NAME OF OPERATOR ARCO Oil & Gas Company, Division of Atlantic Richfield		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo-Ute Mountain
3. ADDRESS OF OPERATOR 300 N. Pecos, Midland, Texas 79701		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  Unit "F", 1025' f/East lines, Section 33		8. FARM OR LEASE NAME Horseshoe Gallup
14. PERMIT NO.		9. WELL NO. 188
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5653'		10. FIELD AND POOL, OR WILDCAT Horseshoe Gallup
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33, T-31N, R-16W
		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"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <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.)

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.)\*

ARCO requests your permission to plug and abandon the subject well. HSGU Well #188 was originally completed in November, 1960 by El Paso Natural Gas Products Company as a Lower Gallup producer. Production from this well declined to an uneconomical rate to operate, and was shut in during May, 1966. At that time, this well was producing approximately 1/2 BOPD. We do not foresee production from this well becoming profitable again in the future and, therefore, recommend permanent plugging and abandonment.

Attached is a P & A Procedure to plug the well.

OCT 09 1986  
OIL CON. DIV.  
DIST. 3

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

SIGNED Glenn Brown TITLE Production Engineer DATE 9-25-86

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

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.
- 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.
- 8) Rehabilitate location and access road using stipulations supplied by the Bureau of Land Management.

WELL COMPLETION FORM  
HORSESHOE-GALLUP FIELD  
San Juan County, New Mexico

*Horseshoe Gallup Unit*  
# 188

ATOR El Paso Natural Gas Products Company  
LEASE NAME: Horseshoe Ute

Well Number: 12 Location 2035 From North  
Section 3280 From East  
Section 33 T 31N R 16W

Elevation RKB: 5658 G.L. 5646  
Date Completed 6-12-59  
Casing depth, size, type, weight 1636 - 5-1/2" (J55 - 15.50)  
Cement record, type, quantity 50 Sax 50/50 Poz - 4% Jell - 1/4# Flocele/Sax  
Total Depth 1637 Plug Back Depth 1525

Type Logs Run IND - ES  
Top of Lower Gallup Correlation Point RKB: \_\_\_\_\_ Datum: \_\_\_\_\_

Producing Horizon, (Upper), (~~Lower~~) (~~Upper~~) (~~Lower~~) Tocito

Cored Intervals From \_\_\_\_\_ To \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_

IFT Data From \_\_\_\_\_ To \_\_\_\_\_  
Original Completion Interval: Perforated x Or, Open Hole \_\_\_\_\_

(Check Appropriate Blank) From 1454 To 1494 With 80  
From \_\_\_\_\_ To \_\_\_\_\_ With \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ With \_\_\_\_\_

Stimulation: (1454 - 1494) 250 gls. MCA - SOF 48,426 gls. - 5000\*  
Interval & Description: \_\_\_\_\_

Initial Potential Flow: Oil \_\_\_\_\_ BOPD Choke \_\_\_\_\_  
GOR \_\_\_\_\_ SCF/BBL Tubing Flowing Press \_\_\_\_\_ PSI  
Oil 101.10 BOPD  
GOR 149 SCF/BBL Pump Size 1 25/32  
Injection Rate & Stroke Length 14 spm 24"  
Speed

WORKOVERS:

Date

WORK PERFORMED AND RESULTS

Current Well Potential: Oil 11.97 BOPD  
(Based on 24 Hrs.) GOR 418 SCF/BBL  
Date of Well Potential: 11/60

Remarks:

1497' of 2" EUE, J55, Tubing - 1-25/32 WB @ 1462'

For (May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT 1  
(Other line  
verse side)

REMARKS  
done on re-

Budget Bureau No. 42-R1424.

14-20-604-1951

6. LEASE DESIGNATION AND SERIAL NO.

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

7. UNIT AGREEMENT NAME  
Horseshoe Gallup Unit

8. FARM OR LEASE NAME  
Horseshoe Gallup

9. WELL NO.  
188

10. FIELD AND POOL, OR WILDCAT  
Horseshoe Gallup

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

12. COUNTY OR PARISH  
San Juan

13. STATE  
New Mexico

1. OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR  
Atlantic Richfield Company

3. ADDRESS OF OPERATOR  
1860 Lincoln Street, Suite 501, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface  
Unit F, 2035' f/North & 3280' f/East lines, Section 33

14. PERMIT NO.  
15. ELEVATIONS (Show whether SF, RT, OR, etc.)  
5653'

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)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Shut In, Extension Request

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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.)

This well was producing approximately 1/2 BOPD and was not economical to operate. The well was shut in May 1966.

This well is in a large Unit which is now under waterflood operations. Future plans are to conduct waterflood and tertiary recovery studies. These studies may result in a revised waterflood plan or in a tertiary recovery program that may require the use of this well in order to recover the maximum amount of oil from this reservoir.

TEMPORARY ABANDONMENT  
EXPIRES

JUN 1 1977



Two copies sent to New Mexico Oil Conservation Commission

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

SIGNED

W. A. Walther, Jr.

TITLE Operations Manager

DATE 6/04/76

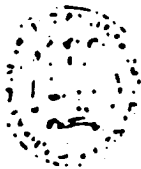
(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

BRUCE KING  
GOVERNOR

LARRY KEHOE  
SECRETARY

BRADENHEAD & PACKER TEST REPORT FOR INJECTION & SWD WELLS  
(Submit 2 copies to above address)  
BRADENHEAD TEST

1000 RIO BRAZIL  
AZTEC, NEW MEX.  
85051 334-6

Date of Test 4-10-86 Operator Arco

Lease Name & Well NO HGU #188 Location U E Sec 33 Twp 31 Rng 16

Tbg Inj. Pressure \_\_\_\_\_ Tbg SI Pressure \_\_\_\_\_ Csg. Pressure \_\_\_\_\_

Intermediate Pres \_\_\_\_\_ Bradenhead Pres 6 Maximum Inj Pressure \_\_\_\_\_

If Bradenhead has pressure, flow to atmosphere for 30 minutes and record casing pressure at 5 minute intervals.

CASING PRESSURE

5 MIN \_\_\_\_\_

10 MIN \_\_\_\_\_

15 MIN \_\_\_\_\_

20 MIN \_\_\_\_\_

25 MIN \_\_\_\_\_

30 MIN \_\_\_\_\_

BRADENHEAD FLOWED

Steady Flow \_\_\_\_\_

Surges \_\_\_\_\_

Down to Nothing \_\_\_\_\_

Nothing ✓

Gas \_\_\_\_\_

Gas & Water \_\_\_\_\_

REMARKS: \_\_\_\_\_

PACKER TEST

If casing has pressure, flow to atmosphere for 30 minutes and record tubing pressure at 5 minute intervals.

TUBING PRESSURE

5 MIN \_\_\_\_\_

10 MIN \_\_\_\_\_

15 MIN \_\_\_\_\_

20 MIN \_\_\_\_\_

25 MIN \_\_\_\_\_

30 MIN \_\_\_\_\_

REMARKS: \_\_\_\_\_

RECEIVED

APR 30 1986

OIL CON. DIV.

BY: B. J. [Signature]

POSITION ENG. [Signature]

WITNESS [Signature]

