

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

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 & Gas Company, Division of Atlantic Richfield

3. ADDRESS OF OPERATOR
300 N. Pecos, Midland, Texas 79701

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

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ST, GR, etc.)
5653'

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

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

9. WELL NO.
188

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

RECEIVED

OCT 17 1986

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANE

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(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.

RECEIVED
OCT 30 1986
OIL CON. DIV.
DIST. 3

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

SIGNED Shawn Brown

TITLE Production Engineer

DATE 9-25-86

(This space for Federal or State office use)

APPROVED BY [Signature]

TITLE AREA MANAGER

DATE OCT 28 1986

CONDITIONS OF APPROVAL, IF ANY:

STIPULATIONS
ATTACHED

*See Instructions on Reverse Side

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

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

Well Number: 12 Location 2035 From North
Section 33 From East
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/Sak

Total Depth 1637 Plug Back Depth 1525

Type Logs Run IND - ES

Top of Lower Gallup Correlation Point RKB: _____ Datum: _____

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

Cored Intervals 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 14 & stroke length 14 spm 24"

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'

Form 100-1
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT 1
(Other has
verse side)

RECEIVED
close on re-

Budget Bureau No. 42-R1424.

8. LEASE DESIGNATION AND SERIAL NO.

14-20-604-1951

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Havajo-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 B.L. AND
SURVEY OR AREA

Sec. 33-31N-16W

12. COUNTY OR PARISH

San Juan

13. STATE

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

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 DF, RT, GA, 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)

FULL 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
8051 334-6

Date of Test 4-10-86 Operator ARCO

Lease Name & Well NO HGU #188 Location U F 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

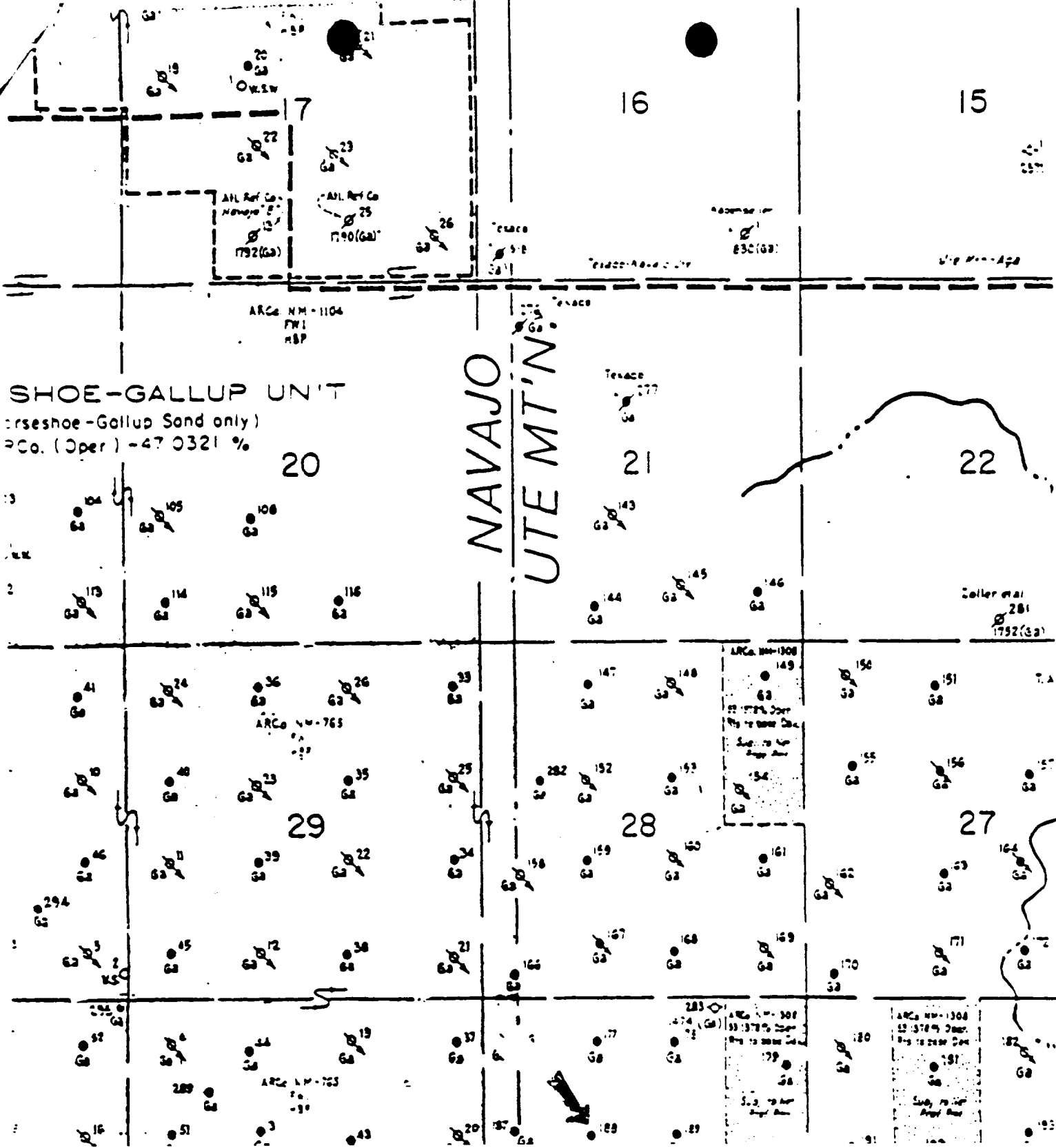
OIL CON. DIV.

BY: B. J. [Signature]

POSITION ENG. [Signature]

WITNESS _____

WITNESS [Signature]



SHOE-GALLUP UNIT
(Shoeshoe-Gallup Sand only)
P.C. (Opel) - 47 0321 %

NAVAJO
UTE MT'N

HORSESHOE GALLUP #188
33-31N-16W
SAN JUAN COUNTY, NEW MEXICO

* PERFORATE AND SQUEEZE ENOUGH CEMENT TO COVER THE SURFACE CASING SHOE WITH 100'; 50' BELOW AND 50' ABOVE. LEAVE A 100' PLUG INSIDE THE PRODUCTION STRING.

* TAG THE PLUG ACROSS THE SURFACE CASING SHOE. A BLM WITNESS MUST BE PRESENT FOR THE TAGGING OF THE PLUG.

* NOTIFY BLM, SAN JUAN RESOURCE AREA, DENNIS CARPENTER, 303-247-4082, AT LEAST 24 HOURS PRIOR TO STARTING PLUGGING OPERATIONS.

* CLEAR ALL EQUIPMENT OFF THE LOCATION, REMOVE DEADMEN, AND REPLACE THE CUT AND FILL AREAS AS CLOSE TO THE ORIGINAL CONTOUR AS POSSIBLE, AND RESEED THE DISTURBED AREA.

* CONTACT T. E. TAYLOR, BIA, 303-565-8471 FOR THE APPROPRIATE SEED MIXTURE.