

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☒ gas ☐
well well other

2. NAME OF OPERATOR ARCO Oil and Gas Co., Div.
of Atlantic Richfield Company

3. ADDRESS OF OPERATOR 707 - 17th St., P. O.
Box 5540, Denver, Colo. 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17
below.) Unit P,
AT SURFACE: 660' FSL & 417' FEL, Sec. 32
AT TOP PROD. INTERVAL: Appx. same
AT TOTAL DEPTH: Appx. same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,
REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT OF:

(other) ☒ - Convert to Injection Well

RECEIVED

JUN 1 1983

(NOTE: Report results of multiple completion or zone
change on Form 9-330.)

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

5. LEASE
14-20-603-734

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
Horseshoe Gallup Unit

8. FARM OR LEASE NAME
Horseshoe Gallup

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Horseshoe Gallup

11. SEC., T., R., M. OR BLK. AND SURVEY OR
AREA
Sec. 32-T31N-R16W

12. COUNTY OR PARISH 13. STATE
San Juan New Mexico

14. API NO.
None Assigned

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5331.6' GL

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 desires to convert the subject well to a Water Injection well.
(See attached procedure for conversion; also, Well Data information.)

Note: This well is within the Horseshoe Gallup Unit and does not
offset any other production within a one-mile radius.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Stephen Rose TITLE Dist. Prod. Supt. DATE May 25, 1983
S. C. Rose

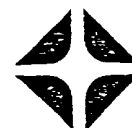
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

NMOCC

*See Instructions on Reverse Side

APPROVED
JUN 2 1983
JAMES F. SIMS
DISTRICT ENGINEER



Date: January 10, 1983

Subject: Recommended Procedure for Conversion
Horseshoe Gallup Unit #1

From/Location: T. M. Tracey

To/Location: J. G. Bradshaw

Well Data:

Location: 660' FSL, 417' FEL, Section 32-31N-16W
San Juan County, New Mexico

Elevation: GL - 5332' KB - 5340'

Casing: 5-1/2" 14# J-55 set @ 1285' KB, cemented w/150 sx Reg. POZ

Perfs: 1192-1233' ELM (Lower Gallup)
1091-1094', 1099-1128' ELM (Upper Gallup)

Tubing:	1 - 3-1/2" x 2-3/4" tbg liner pump	18.60
	39 jts 3-1/2" Buttress tbg 9.2# J-55	1214.48
		<u>1233.08</u>
	RKB to tbg collar	6.00
		<u>1239.08</u>

TD: 1285'

PBTD: 1252'

Procedure:

1. MIRU pulling unit.
2. POH and lay down pump and rods, then pull tubing. If pump is stuck w/paraffin, circulate well and flowline w/hot water.
3. GIH w/tubing and csg. scraper. Clean out to PBTD @ 1252'. POH.
4. GIH w/tubing and Baker Model 'AD-1' Tension Packer (or equivalent), hydrotesting tubing to 1500 psi. Set packer at least 50' above top of Upper Gallup perfs so an effective tracer survey can be run later.
5. Release pulling unit.
6. Hook-up wellhead, meter, and injection line.

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Horseshoe Gallup Unit #1
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7. Establish an injection rate. If 600 BWPD cannot be obtained after 1-2 weeks, follow Step 8. If 600 BWPD is established, proceed to Step 9.
8. Acidize Upper and Lower Gallup perms 1091-1233' (overall) down tbg w/2500 gal 15% HCl @ 1 to 1-1/2 BPM. Acid to contain 2 gal/1000 gal corrosion inhibitor, 5 gal/1000 gal non-emulsifier (Dowell W52 or equivalent), and 100 lb/1000 gal iron sequestering agent. Pump first 1,000 gal, then pump slug of 500 gal w/1.0 ppg Rock Salt (500 lbs total) for diversion, then pump final 1000 gal.
9. Run R/A tracer - Differential temperature survey after rate stabilizes (2 months).

T. M. Tracey

TMT/sh

SHOE-GALLUP UNIT
 (Shoshone-Gallup Sand only)
 Co. (Oper.) - 47.0321 %

NAVAJO
 UTE MT'N

ARCO Oil and Gas Company
 Denver, Colorado

CONVERSION of HSAU 3#1
 T31N - R16W
 Sec. 32: SE/SE

San Juan County
New Mexico

ARCO Oil and Gas Company is a Division of Atlantic Richfield Company

