

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 well ☒ gas 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, Colorado 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) Unit P,
AT SURFACE: 660' FSL & 660' FEL, Sec. 24
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:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	☐
FRACTURE TREAT	☐
SHOOT OR ACIDIZE	☐
REPAIR WELL	☐
PULL OR ALTER CASING	☐
MULTIPLE COMPLETE	☐
CHANGE ZONES	☐
ABANDON*	☐
(other) X - Convert to	☐

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JUN 1 1983

(NOTE: Report ~~results~~ of multiple completion or ~~long~~
change on Form 9-310.)

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

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OIL CON. DIV.
DIST. 3

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 _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE

NAOCC

*See Instructions on Reverse Side

5. LEASE

14-20-603-2037

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. 109

10. FIELD OR WILDCAT NAME
Horseshoe Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR
AREA
Sec. 24-T31N-R17W

12. COUNTY OR PARISH San Juan	13. STATE New Mexico
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14. API NO.
None Assigned

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5748' GL

Date: January 10, 1983
Subject: Recommended Procedure for Conversion
Horseshoe Gallup Unit #109
From/Location: T. M. Tracey
To/Location: J. G. Bradshaw

Well Data:

Location: 660' FSL, 660' FEL, Section 24-31N-1
San Juan County, New Mexico
Elevation: GL - 5748' KB - 5756'
Casing: 5-1/2" 15.5# J-55 set @ 1571' KB, ce
POZ
Perfs: 1504-1535' ELM (Lower Gallup)
1390-1416' ELM (Upper Gallup)
Tubing: 1 Pump barrel 3-1/2" OD x 2-3/4"
48 jts tbg 3-1/2" 9.2# J-55
RKB to tbg collar

TD: 1575'
PBSD: 1553'

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Procedure:

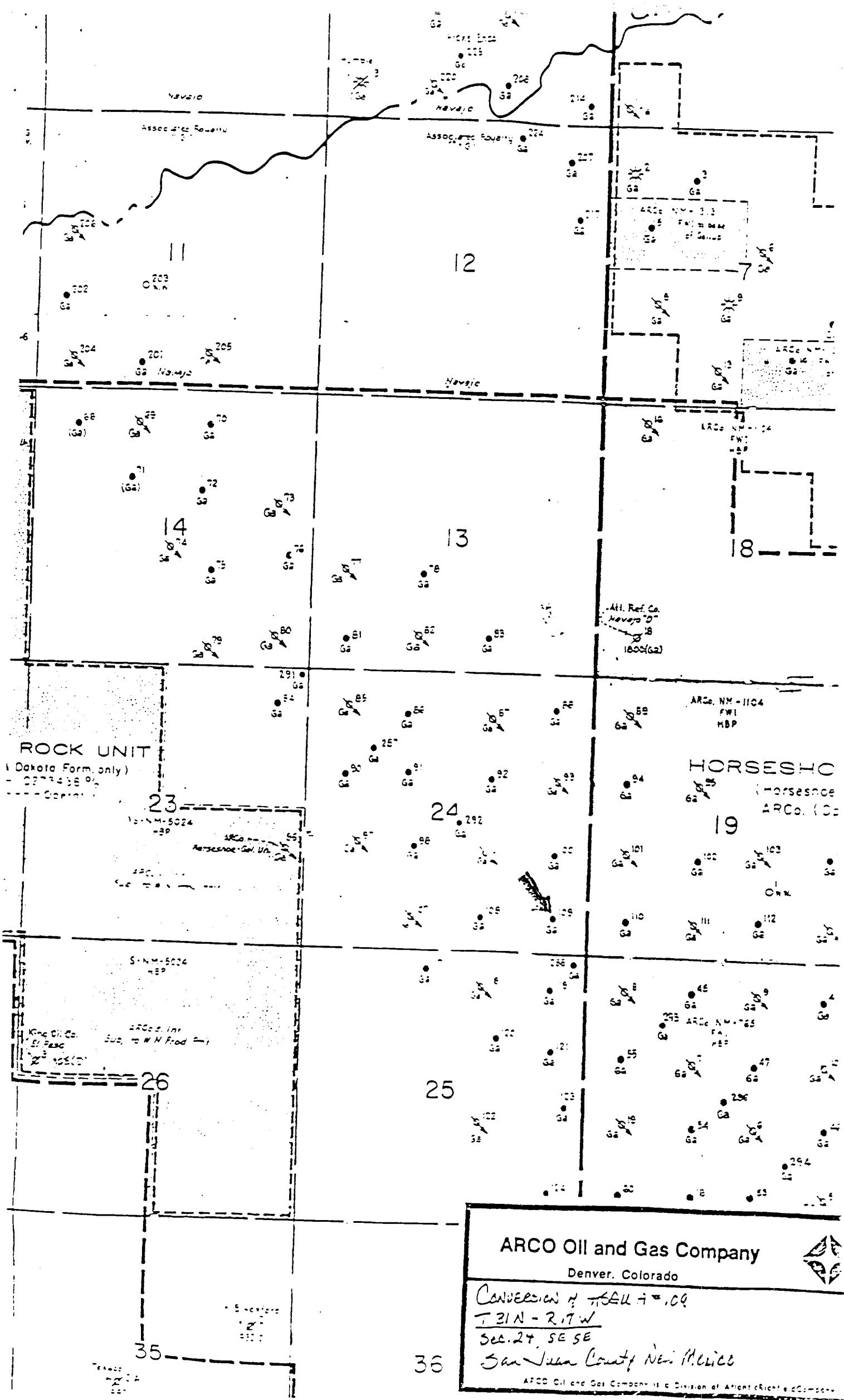
OIL CON. DIV.
DIST. 3

1. MIRU pulling unit.
2. POH and lay down pump and rods, then pull tub w/paraffin, circulate well and flowline w/hot
3. GIH w/tubing and csg. scraper. Clean out to
4. Perf csg opposite Lower Gallup 1510-20' and 1 Gallup 1396-1402' and 1406-1416' ELM 2 JET SE
5. GIH w/tubing and Baker Model 'AD-1' Tension I hydrotesting tubing to 1500 psi. Set packer of Upper Gallup perfs so an effective tracer later.

6. Release pulling unit.
7. Hook-up wellhead, meter, and injection line.
8. Establish an injection rate. If 400 BWPD cannot be obtained after 1-2 weeks, follow Step 9. If 400 BWPD is established, proceed to Step 10.
9. Acidize Upper and Lower Gallup perms 1390-1535' (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 1000 gal, then pump slug of 500 gal w/1.0 ppg Rock Salt (500 lbs total) for diversion, then pump final 1000 gal.
10. Run R/A tracer-Differential temperature survey after rate stabilizes (2 months).

T. M. Tracey

TMT/sh



ARCO Oil and Gas Company

Denver, Colorado

Conversion of *HEU* to *CO*

T 31 N - R 17 W

Sec. 24, SE SE

San Juan County New Mexico

ARCO Oil and Gas Company is a Division of Amoco Oil Company