

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 ☐ other ☐
well well

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 F,
AT SURFACE: 1980' FNL & 1980' FWL, Sec.
AT TOP PROD. INTERVAL: Appx. same 32
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

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(NOTE: Report results of multiple completion or
change on Form 9-331-C)

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

(other) X - Convert to Injection well

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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 _____

DATE _____

NAADCC

*See Instructions on Reverse Side

APPROVED

JUN 1983

JAMES F. SIMS
DISTRICT ENGINEER

Date: January 12, 1983

Subject: Recommended Procedure for Conversion
Horseshoe Gallup Unit #3

From/Location: T. M. Tracey

To/Location: J. G. Bradshaw

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Well Data:

Location: 1980' FNL, 1980' FWL, Section 32-31N-16W
San Juan County, New Mexico

Elevation: GL - 5376' KB - 5383'

Casing: 5-1/2" 14# H-40 set @ 1299' KB, cemented w/125 sx Reg. POZ

Perfs: 1235-1262' ELM (Lower Gallup)
1117-1153' ELM (Upper Gallup)

Tubing: 1 jt tbg 2-7/8" 10 Reg J-55 6.4# 29.05
1 SN 2-7/8" 10R Reg API +45
1 Coupling 2-7/8" 10R Reg
1 Swage 3" Reg x 2-7/8" 10R Reg } 2.08
1 Coupling 3" Reg x 3-1/2" O.D.
38 jts tbg 3-1/2" S.L. 9.2# J-55 1183.47
1214.60
RKB to tbg collar 6.00
1220.60

TD: 1300'

PBTD: 1272'

Note: Tight spot in csg @ 606.15' KB. 4-1/16" coupling went through but 4-3/8" would not. Also, csg parted @ 167' from top of tbg head. 2-7/8" tbg went through with one-half turn.

Procedure:

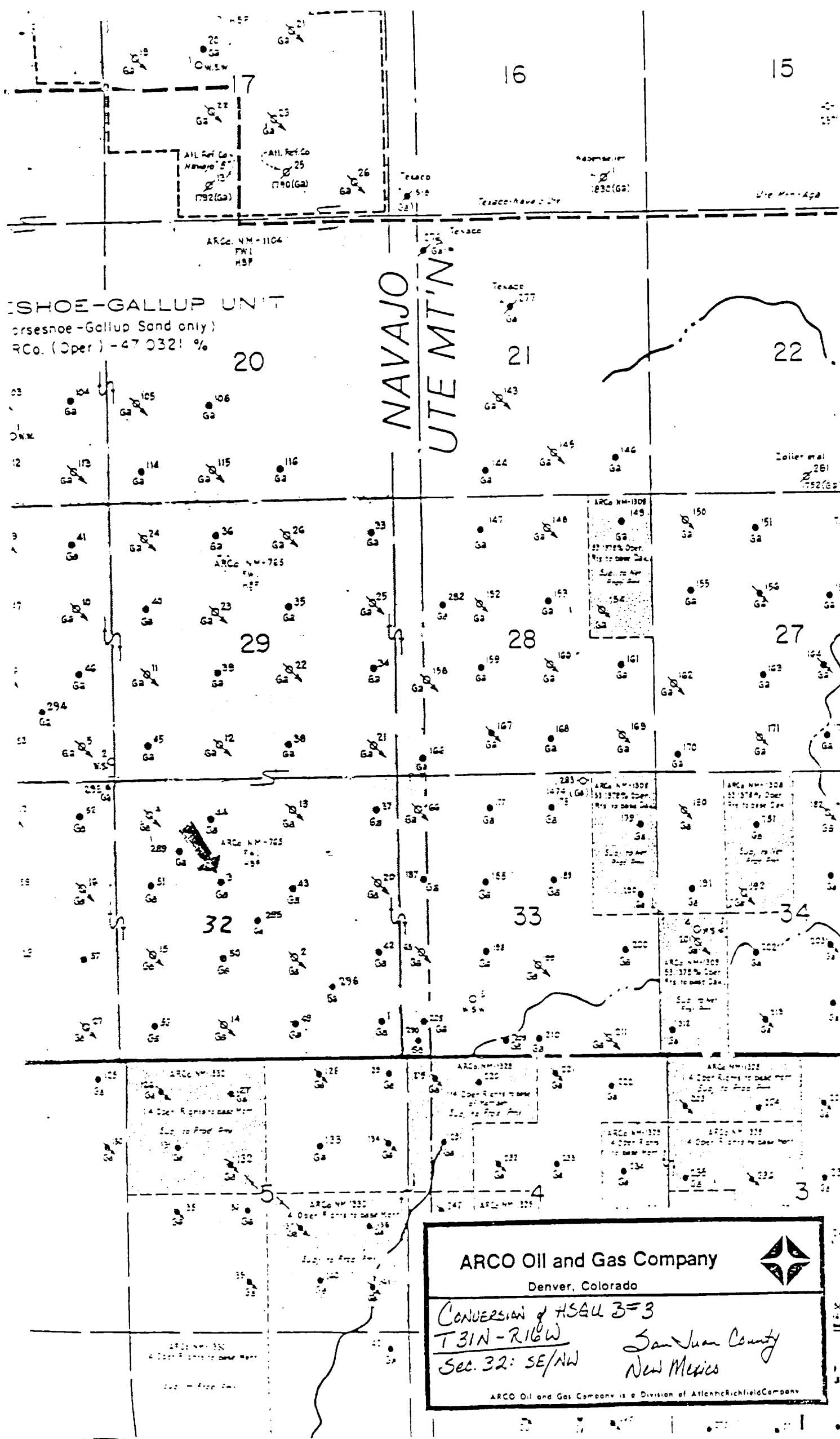
1. MIRU pulling unit.
2. POH and lay down pump and rods, then pull tubing. If pump is stuck w/paraffin, circulate well and flowline w/hot water.
3. GIH w/tubing and csg. scraper. Clean out to PBTD @ 1272' if possible. POH.

Recommended Procedure for Conversion
Horseshoe Gallup Unit #3
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4. GIH w/2-3/8" tubing and Lynes 3"x3/4"x48" Inflatable Production-Injection Packer (P.I.P.), hydrotesting tubing to 1500 psi. Set packer at least 50' above top of Upper Gallup perfs. (Notify Lynes technical specialist at least one week in advance. Lynes Denver contact: Carl Moehr 303-573-8027.)
5. Release pulling unit.
6. Hook-up wellhead, meter, and injection line.
7. Establish an injection rate. If 600 BWPD cannot be obtained after 1-2 weeks, follow Step 8.
8. Acidize Upper and Lower Gallup perfs 1117-1262' (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 1100 gal, then pump slug of 400 gal w/1.0 ppg Rock Salt (400 lbs total) for diversion, then pump final 1000 gal.

T. M. Tracey

TMT/sh



SHOSHOE-GALLUP UNIT
(Shoshoe-Gallup Sand only)
ARCO (Oper) - 47.0321 %

NAVAJO
UTE MOUNTAIN

ARCO Oil and Gas Company
Denver, Colorado



CONVERSION of HSAU 3=3
T31N-R16W
Sec. 32: SE/NW

San Juan County
New Mexico

ARCO Oil and Gas Company is a Division of AtlanticRichfield Company