

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 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: 2035' FNL & 3280' FEL, Sec. 33
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* ☐
(other) X- Convert to Injection Well

SUBSEQUENT REPORT OF:

RECEIVED

JUN 1 1983

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

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

1983

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 as well as Well Data
information).

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

RECEIVED

AUG 5 - 1983

OIL CON. DIV. 1

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 Judith A. Lutz TITLE Act. Area Manager DATE 7/29/83
CONDITIONS OF APPROVAL, IF ANY:

Operations will be confined
to original well pad

NMOCC

Need C108

Date: January 10, 1983

Subject: Recommended Procedure for Conversion
Horseshoe Gallup Unit #188

From/Location: T. M. Tracey

To/Location: J. G. Bradshaw

Well Data:

Location: 2035' FNL, 3280' FEL, Section 33-31N-16W
San Juan County, New Mexico

Elevation: GL - 5651' KB - 5658'

Casing: 5-1/2" 15.5# J-55 set @ 1636' KB, cemented w/50 sx Reg

Perfs: 1454-1494' ELM

Tubing:	47 jts 2-3/8" 4.7# J-55 8rd EUE	1480.69
	Bull Plug	.67
	Perforated Nipple	2.70
	Pump Working Bbl	6.59
		1490.65
	RKB to tbg collar	6.00
		1496.65

TD: 1637'

Note: Well currently shut-in.

PBTD: 1525'

Procedure:

1. MIRU pulling unit.
2. POH and lay down pump and rods, then pull tubing. If pump is set w/paraffin, circulate well and flowline w/hot water.
3. GIH w/tubing and csg. scraper. Clean out to PBTD @ 1525'. 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 of Upper Gallup perfs so an effective tracer survey can be run.
5. Release pulling unit.
6. Hook-up wellhead, meter, and injection line.

RECEIVED
AUG 15 - 1983

OIL

7. Establish an injection rate. If 300 BWPD cannot be obtained after 1-2 weeks, follow Step 8. If 300 BWPD is established, proceed to Step 9.
8. Acidize Gallup perms 1454-1494' (overall) down tbg w/1500 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 650 gal, then pump slug of 200 gal w/1.0 ppg Rock Salt (200 lbs total) for diversion, then pump final 650 gal.
9. Run R/A tracer - Differential temperature survey after rate stabilizes (2 months).

T. M. Tracey

TMT/sh

U.S. DEPARTMENT OF ENERGY
OIL AND GAS TECHNOLOGY
LABORATORY

JAN 10 1983

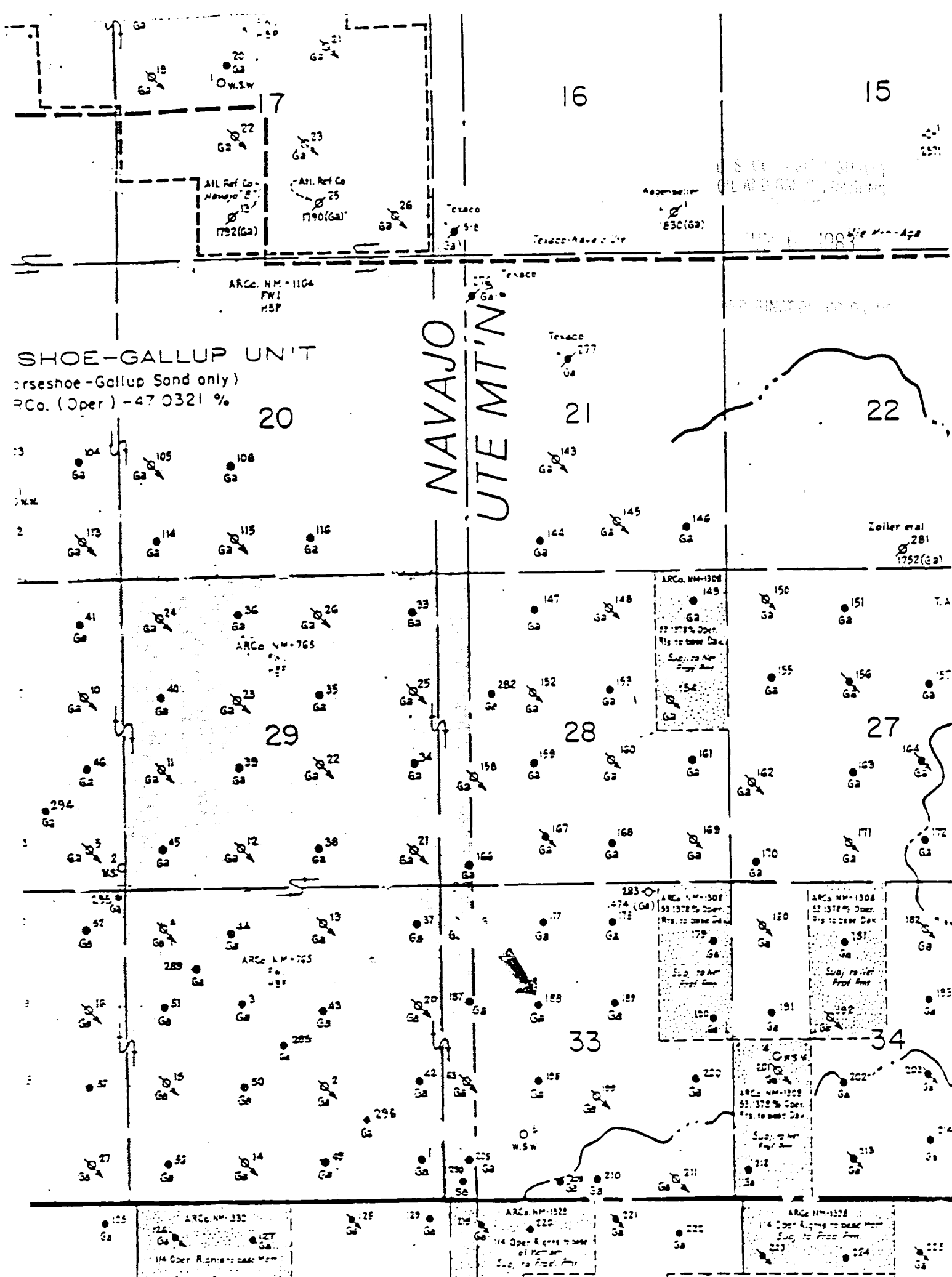
THE UNIVERSITY OF TEXAS AT AUSTIN

RECEIVED

JAN 10 1983

1000

1000



14-20-604-1951
No. 188 Horseshoe Gallup Unit
SE NW 33-31N-16W ST. NM

5253 DF
5646 GL

Manco

75/8 26.4 # @ 179
W/150 4' Cnt Circ
6 3/4 hole

Top Cnt 870
Temp Survey

T/Gallup 1234

Sanastec 1600

2 3/4 # @ 1496 Rods & pump stuck?

= Perf 1454-1494
F/48426 0.1 # 50000 # ad-bulk⁴⁰

PB 1525

5 1/2 15.5 # @ 1636
25 sq Root & 25 sq P.O.

TD 1637

RECEIVED
AUG 5 - 1983
OIL CON. DIV.
DIST. 3

CAD 7/29/83