UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

Γ	5. LEASE					
	14-20-603-734					
ľ	6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
١.	Navajo					
	7. UNIT AGREEMENT NAME					
1.	Horseshoe Gallup Unit					
	8. FARM OR LEASE NAME					
	Horseshoe Gallup Unit					
	9. WELL NO.					
1	53					
10. FIELD OR WILDCAT NAME						
-	Horseshoe Gallup					
	11. SEC., T., R., M., OR BLK. AND SURVEY OR					
	AREA					
	30-31N-16W					
,	12 COUNTY OR PARISH 13. STATE					
	San Juan New Mexico					
	14. API NO.					

Not Assigned

GL; 5479'

15. ELEVATIONS (SHOW DF. KDB, AND WD)

(NOTE: Report results of multiple completion or zone

ewer Gallup Sands

change on Form 9-330)

5472.21

(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 ges well 🗵 well other 2. NAME OF OPERATOR ARCO Oil and Gas Co. Div of Atlantic Richfield Company 80217 3. ADDRESS OF OPERATOR 717-17th St., P.O.Box 5540, Denver, CO 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 helow. AT SURFACE: C SW SE 660' FSL & 1980' FEL AT TOP PROD. INTERVAL ADDX. same Sec. 30 AT TOTAL DEPTH: ADDX. 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

PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES

(other)x Reperforate

REPAIR WELL

ABANDON*

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.)*

MAR 30 1802

U. S. CIULGGICAL SURVEY (
FARMINGTON, N. BL.)

SUBSEQUENT REPORT OF:

Well #53 was completed in May, 1959 as a producer and initially tested 132 BOPD from the Upper and Lower Gallup sands. The last test on this well indicated production of approximately 1 BOPD and 10 BWPD from the two sands. The well is presently shut-in. This well has a significant history of scale problems since water injection started in 1963. This is probably the reason for the suppressed production of this well relative to performance of offset wells with similar net pay thicknesses. It is evident that the present perforations (1183-1211' and 1284-1318') are practically plugged off and that any small treatment will not open them.

Therefore, we recommend that both Gallup zones be re-perforated, acidized, and treated with scale inhibitor (as per the workover procedure attached) in order to regain lost production.

	Subsurface Safety Valve: 1	vianu, and Type			_ Set @ Ft
	18. I hereby certify that t	ne foregoing is true and		\ /	SEPFILED
	SIGNED W. A. A. WENE	TO PORT TO SEE		DATENET	KLULIVE
	FIF &	DE COULT	pace for Federal or State office use) ! TITLE	DATE	MAY 3 1982
	CONDITIONS OF APPROVAL				OIL CON. CT
AS.	A INTERVITED I	MES F. SIMS RICT ENGINEER	NMOCd)		Distro

*See Instructions on Reverse Side

HORSESHOE GALLUP UNIT WELL #53 SAN JUAN COUNTY, NEW MEXICO

Well Data:

Location: 660' FSL, 1980' FEL, Sec. 30-30N-16W

San Juan County, New Mexico

Elevation: GL 5472', KB 5479'

Log measured from KB

Casing: 4-1/2" 9.5# set @ 1371' RKB, cemented w/150 sx

Diamix

Perfs: 1183-1211', 1284-1318' ELM

Tubina: 1 jt tbg 2-7/8" 10R NU 3-55 6.44 14.25

1 SN 2-7/8" 10R

44 jts tbg 2-7/8" 10R NU 3-55 6.4€ 1267.021 1282.371

RKB to tbg collar 6.00 1288.37'

T.D.: 13761

PBTD: 1339'

> There is a leak in the casing somewhere between 540! Note:

and 835'. There is also a tight spot at

approximately 1140'. A 3-1/2" sand pump has passed

through it.

workover * Casing leak must be repaired before well is produced. Notify this office by Sundry Notice of intent on plans to repair casing. Procedure:

MIRU. POH w/tbg, rods and pump. Note what kind of scale is present.

- GIH w/perforating gun and perf opposite 4-1/2" csq w/2 jet SPF from 1284-1308' RKB and 1183-99' RKB. Use premium quality deep penetrating charges.
- GIH w/work string and packer. Set packer @ 1100' RKB. Pump 5000 gal 15% HCl. Acid to contain iron sequestering agent, surfactant and corrosion inhibitor.
- Wait one hour, then swab back acid.
- With packer again @ 1100' RKB, pump 100 bbls water mixed w/110 gals S-271 ARCO scale inhibitor. Flush w/20 bbls water.
- POH w/packer. Shut-in overnight. 6.
- RIH w/production tbg, rods and pump. Space pump and resume normal pumping operations. Put well on test.



1.101