011120 311120 1900	14-20-603-734	
DEPARTMENT OF THE INTERIOR COM.		
DEPARTMENT OF THE INTERIOR COM. GEOLOGICAL SURVEY COM. 3	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
GEOLOGICAL SURVEY CON. 3	Navajo	
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME	
(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.)	Horseshoe Gallup Unit	
reservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME	
1. oil gas other	Horseshoe Gallup Unit	
	9. WELL NO. 295	
2. NAME OF OPERATOR ARCO Oil and Gas Co., Div.	10. FIELD OR WILDCAT NAME	
of Atlantic Richfield Company 3 ADDRESS OF OPERATOR 80217	Horseshoe Gallup	
3. ADDRESS OF OPERATOR 80217 17-17th St., P.O. Box 5540, Denver, Co.	11. SEC., T., R., M., OR BLK. AND SURVEY OR	
	AREA	
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) Unit "A" (NE NE)	Sec. 31-31N-16W	
AT SURFACE: 50' FNL & 50' FEL, Sec. 31	12. COUNTY OR PARISH 13. STATE	
AT TOP PROD. INTERVAL: Appx. same	San Juan New Mexico	
AT TOTAL DEPTH: Appx. same	14. API NO.	
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	30-045-22100	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)	
	5430' GL; 5441' KB	
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:		
TEST WATER SHUT-OFF		
FRACTURE TREAT BHOOT OR ACIDIZE BRECEIV		
REPAIR WELL	(NOTE: Report results of multiple completion or zone change on Form 9–330.)	
PULL OR ALTER CASING	change on Form 9–330.)	
MULTIPLE COMPLETE	0.10.151	
CHANGE ZONES U. S. CEOLOGICAL ARANDON* FARMINGTON,		
ABANDON* (other) Add'l. Compl. of Upper Gallup and	Stimilation of Present Lower	
(other) Add 1: Comp1: Of opper dariup and t	Gallup Perfs.	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly sta	te all pertinent details, and give pertinent dates.	
including estimated date of starting any proposed work. If well is measured and true vertical depths for all markers and zones pertine	directionally drilled, give subsurface locations and	
Well #295 was completed in August, 1976		
and initially tested 109 BOPD and 109 B	NPD from the Lower Gallup form.	
Production declined dramatically to 3 Bo		
has remained at that level since. We be		
damage of the Lower Gallup zone. Repers		
this zone should correct this damage and reasonable production rate and decline.	d restore the Lower Garrup to a	
The Upper Gallup sand has never been con	mnleted in this well Well logs	
indicate 38' of potentially productive		
We propose to perforate and frac the Up		
present Lower Gallup perforations in the		
posed workover procedure for this work.	13 "C11. Accounted 15 the pro-	
bosed motivoict brocedure for cura motive		
Subsurface Safety Valve: Manu. and Type	Set @ Ft.	
18. I hereby certify that the foregoing is true and correct	•	
	C Tanuary 20 1002	
SIGNED	Supt. DATE January 20, 1982	
S DDROVED space for Federal or State	office use)	
APPROVED BY TITLE TITLE	DATE	
CONDITIONS OF APPROPRIES BE (NOT: 1982		
ForJAMES F. SIMS NMOCC		
The state of the s		

DISTRICT ENGINEER

e Instructions on Reverse Side

WORKOVER PROCEDURE - HSGU #295

- MIRU. Pull rods, pump, and tbg. Clean out hole to PBTD w/casing scraper.
- 2) Run Gamma Ray-CCL correlation log. Perf csg opposite Lower Gallup f/1272-82' ELM w/2 JET SPF. Pump 500 gal 7-1/2% HCL into perfs.
- 3) Set drillable bridge plug @ 1260'+ w/wireline. Perf csg opposite Upper Gallup f/1160-98' ELM w/2 JET SPF.
- 4) Run temperature survey. Test casing to 2000 psi.
- 5) Run tubing and circulate hole w/10% KCL water and spot 250 gallons 7-1/2% HCL acid across Upper Gallup perforated zone. Pull tubing and rig up to frac down 5-1/2" casing.
- 6) Frac down 5-1/2" casing at 15 BPM at approximately 1000 psi using 14,000 gallons pre-gelled Mini-Max II fluid and 42,000 pounds 20/40 sand. Frac water to contain: 1% KCL, 1 gal/1000 Aquaflow, 1 gal/2000 Claymaster III clay stabilizer, and appropriate gel breakers.

Gals	<u>Bbls</u>	Prop	Prop Conc	Fluid
2000	48			Pad-Mini-Max II
1000	24	20/40	1 ppg	Mini-Max II .
2000	48	20/40	2 ppg	Mini-Max II
2000	48	20/40	3 ppg	Mini-Max II
4000	96	20/40	4 ppg	Mini-Max II
3000	72 ⁻	20/40	5 ppg	Mini-Max II
5000	119		Flush	1% KCL water

- 7) Run temperature survey immediately after frac job, and then 2 hours later.
- 8) Allow sufficient time for gel to break. Swab test Upper Gallup.
- 9) Drill out bridge plug, run pumping equipment, put well on test. (Upper and Lower Gallup commingled production.)

WELL DATA - HSGU #295

Location: 50' FNL and 50' FEL, Sec. 31-31N-R16W

San Juan County, New Mexico

Elevation: GL - 5430' KB - 5441'

Log measured from KB

5-1/2" 14# K-55 set @ 1340' KB, cemented w/150 sx Casing:

Howco light and 75 sx neat.

Perfs: 1274-82' ELM (Lower Gallup)

Tubing: 2-7/8" EUE, 8R, J-55, 6.5# 1 Jt. 30.66

1 SN 2-7/8" EUE, 8R 1.10 40 Jts. 2-7/8" EUE, 8R, J-55, 6.5# 1254.20

RKB to top of tbg. head 1294.46

Bottom of tbg. @

TD: 1340'

PBTD: 13161

Orginally Completed 8/20/76

