(other)

DEPARTMENT OF THE INTERIOR JAN 1 " 19	83 / 14-20-604-1951
GEOLOGICAL SURVEY GRAND JUNCTION	a Zakin ka kanana marata na Tajaa Makaa
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME Horseshoe Gallup Unit
reservoir. Use Form 3-331-0 for such proposais	a. FARM OR LEASE NAME Horseshoe Gallup Unit
1. on — gas — other Injection	9. WELL NO.
2. NAME OF OPERATOR ARCO Oil and Gas Co., a privision of Atlantic Richfield Company	194 10. FELD OP WILDOAT NAME
3. ADDRESS OF OPERATOR 707 - 17th Street, P.O. Box 5540, Denver, Colo. 30217	Horseshoe Gallup
4. LOCATION OF WELL (REPORT LOCATION CLEARLY, See space 17 below.) Unit H,	AREA Sec. 34-31M-16M
AT SURFACE: 1990' FNL & 645', FEL, Sec. 34' AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	San Juan New Memico
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.	14. APLNO. None Assigned
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 5472' GR
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*	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state ail 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.)*

\$11-1-82 This notice supercedes our Sundry Notices dated August 31, 1982, on the subject well.

ARCO now proposes to plug and abandon this well, as per the attached revised P & A Procedure.

(This is in compliance with the requirements as set forth in a memorandum dated September 30, 1981, and a subsequent letter of April 26, 1982 , both from the State of New Mexico, Energy and Minerals Department, Oil Conservation Division(copies attached to our August 31, 1982 Sundry Notice).

Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	Docember 30
SIGNED Stephen Kase Most TITLE Dist. Prod. Supt. OATS	_November 1, 1982
Original Signed - Scott L. Ellis JOHN L. PRICE APPROVED BY	DENISTE N
CONDITIONS OF APPROVAL IF ANY:	
I Tay glay () surface casing shoe	JAN 1 71983

*See Instructions on Reverse Side

OIL CON. DIV. DIST. 3

HORSESHOE GALLUP UNIT INJECTION WELLS PLUGGING AND ABANDONMENT PROCEDURE (REVISED)

- 1. MIRU.
- 2. Release packer and pull tubing and packer out of hole.
- 3. RIH with tbg open-ended to below the bottom perforation and pump sufficient cement to cover top perforation by 50' inside the casing.
- 4. POH w/tbg. GIH w/wireline and shoot enough holes in production string opposite 150' above top perforation to allow cement squeezing of zone. (This may be necessary since the original cement job may not have covered the Gallup formation by 50'). Squeeze sufficient cement to place a 100' plug outside the casing. Also, leave a 100' plug inside the casing. If unable to squeeze plug outside the casing, leave a 100' plug inside the casing.
- 5. POH w/tbg. GIH w/wireline and shoot enough holes in production casing opposite a point 50' below the surface casing shoe to allow squeezing cement.
- 6. RIH w/tbg open-ended and perform a braden-head squeeze of the perforations. Use sufficient cement for a 100' column behind the casing and a 100' plug inside the casing.
- 7. POH, cut casing one foot below ground level, place a 30' cement plug inside casing, weld on a blind flange, weld a dry hole marker on the blind flange, fill hole and move off.
- 8. Rehabilitate location and access road using stipulations supplied by the surface management agency.

NOTE: BOP's will not be needed in most cases because expected reservoir pressure of the Gallup in the area of abandonment is very low. (Estimated at less than 250 - 300 psi bottom-hole.) If pressure does exist on any of the subject wells, bleed it off, install BOP's if needed, and commence with above procedure.

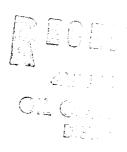


TABLE I

Horeshoe Gallup Thit Federal Lease No. 14-08-001-8200 San Juan County, New Mexico.

list of Wells

	₩o.		
3.	No.	103	R
4.	Nc.	105	A
5.	No.	113	A
			_
	He.	126	-
7.	No.	130	C
€.	No.	132	C
9.	No.	135	C
10.	No.	137	C
11.	No.	139	C
12.	No.	141	C
13.	No.	143	D
14.	No.	145	D
15.	No.	148	\mathcal{D}
16.	No.	150	D
17.	No.	152	\mathcal{D}
18.	No.	154	D
19.	No.	156	D
20.	- -!io-	-160	-

			•
21.	No.	215	2
	-}ic.	162	-0-
23.	No.	154	D
-24	No.	-169 -	-)-
25.	No.	171	D
26.	No.	173	D
27.	No.	175	D
-38	NO.	130-	
29.	No.	182	O
30.	No.	184	9
31.	No.	186	٥
-32:-	No.	192	-D -
33.	No.	194	D
34.	No.	196	D
35.	-No.	-201	-0-
36.	No.	203	D
37.	No.	205	D
38.	No.	207	D
39.	No.	213	Q
40.	No.	217	D

	41.	No.	223	2
	42.	νο.	225	2
(Stite)	43.	No.	227	D
	44.	No.	229	D
	45.	No.	238	D
(state)	46.	No.	240	D
	47.	No.	248	D
	48.	No.	250	D
	49.	No.	259	D
•	50.	No.	261	C
	51.	No.	263	<u>C</u>
	52.	No.	269	C
	53.	No.	274	C
	54.	No.	275	C
	55.	No.	73	Ą
	-56.	No.	199	D
	-57 .	No.	-211-	 D
) [3.5]) [3.5]				