

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

LEASE DESIGNATION AND SERIAL NO.

14-20-603-2037

IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

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 "APPLICATION FOR PERMIT—" for such proposals.

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME Horseshoe Gallup Unit
2. NAME OF OPERATOR ARCO Oil and Gas Company, Div. of Atlantic Richfield Company	8. FARM OR LEASE NAME Horseshoe Gallup Unit
3. ADDRESS OF OPERATOR 707-17th Street, P.O. Box 5540, Denver, CO 80217	9. WELL NO. 288
4. LOCATION OF WELL. Report location clearly and in accordance with any State requirements. (See also space 17 below.) At surface	10. FIELD AND POOL, OR WILDCAT Horseshoe Gallup
Unit A, 200' FNL & 200' FEL, Sec. 25	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 25-31N-17W
14. PERMIT NO. API#30-045-21924	15. ELEVATIONS (Show whether OF, RT, OR, etc.) 5749' GR
	12. COUNTY OR PARISH San Juan
	13. STATE N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Workover (see below*)</u> <input checked="" type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.\*

\*Stimulate present Lower Gallup perfs and additionally complete  
Upper Gallup Sand

Completed stimulation of present Lower Gallup perfs and additionally completed the Upper Gallups Sand as per our Sundry Notice, and workover procedure dated 11-19-82, and approved by the BLM on 12-14-82. Tested and returned well to production.

(See attached daily workover report for details.)

RECEIVED  
JAN 04 1985  
OIL CON. DIV.  
DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED

Stephen Rose  
S. C. Rose

TITLE District Prod. Sup't.

DATE DEC 15, 1984 ACCEPTED FOR RECORD

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

JAN 07 1985

CONDITIONS OF APPROVAL, IF ANY:

FARMINGTON RESOURCE AREA

BY

\*See Instructions on Reverse Side

NMOCC

Lease or Unit	Well no.
Horseshoe Gallup Unit, "A"	288

1 of 2

3/03/83

MI RU PU. POOH 7/8" rods and 2½ x 2 x 12 pump. POOH 48 jts. 2 7/8" EUE 8R tbg. Found a lot of calcium carbonate scale on pump, rods, and tbg.

PU 4 3/4" OD bit and Baker Model C-3, size 45B csg. scraper, RIH to 1220', tagged fill in. RU Nowsco, began circulating, CO to 1577' KB (records show PBDT at 1566'). Pumped total of 160 bbls. water, returns mostly water w/ iron sulfide. Broke circ. POOH to 1542'. Spotted 500 gal. 15% HCl w/ 2 gal. NA1-161 inhib., ½ gal. NNE-257 surfactant, 10#NIS-546 iron seq. POOH.

RU Welex 4" guns & RIH. Perf'd Lower Gallup f/ 1532'-42' w/ 2 jet SPF. POOH, RD.

Displaced acid into perms w/ 12 bbls. water. Max. pressure 700 psi, averaged 600 psi, 5bpm. SFN.

3/04/83

Bled csg, flowed only a few gallons water. RIH w/ S.N. on end of tbg. to 1441'. RU swab tools & RIH, began swabbing. Swabbed back approx. 70 bbls. water and acid. Started swabbing back clean oil. POOH swab tools, RD. POOH tbg.

RU Nowsco, pumped 40 bbls. water w/ 55 gal S-271 scale inhib., rate of 2.5-3.0 bpm at 300 psi. Displaced into formation w/ 125 bbls. water, 4.5-5.5 bpm at 750-800 psi. SI 30 min. Opened & bled csg, flowed back approx. 30 bbls. water.

PU Baker model C, size 45B RBP & RIH on tbg. to 1468' and set. POOH to 1441' Pressure tested to 1200 psi w/ Nowsco, held OK. Bled tbg & csg. POOH.

RU Welex 4" guns & RIH. Perf'd Upper Gallup f/ 1410'-32' w/ 2 jet SPF. POOH, RD.

RIH tbg to 1441' & SFN. Heavy rains & very muddy, will have to wait for weather to clear before continuing.

3/07/83

Weather clear, roads dry. MI RU frac equipment. RU Nowsco, Spotted 500 gal. 15% HCl w/ 2 gal. NA1-161 inhib., ½ gal. NNE-257 surfactant, 10# NIS-54G iron seq. POOH.

3/07/83

2 of 2

Broke down formation w/ 44 bbls. 2% KCI water. Max. pressure 1575 psi. Established avg. rate of 20.1 bpm at 1000 psi. SD pumping. ISIP 350 psi. Frac'd down 5½" csg. w/ 8,000 gal. cross-linked 20#/1000 gal gel and 21,200# 10/20 sand.  
Pumped as per fluid schedule:

BBLs.	Prop.	Prop CONC.	RATE	PRESS.
48	Pad	- -	21.7 bpm	800 psi
17	10/20	1 ppg	21.2"	780 "
19	"	2 "	21.1"	770 "
21	"	3 "	21.0	750 "
43	"	4 "	20.5"	750 "
43	"	5 "	20.5"	730 "
30	Flush	--	22.1"	780 "

SD pumping.	ISIP	580 psi.
After 5 min	530	"
" 10 "	490	"
" 15 "	450	"

RD Newsco, will allow gel to break overnight. SFN.

3/08/83

Bled csg., flowed approx. 5 bbls water. PU Baker 3-5/8" Depck hydrostatic tubing bailer & RIH, tagged sand at 1436'. CO to RBP at 1468', latched RBP and POOH. LD RBP and retrieving head. RIH w/ hyd. bailer to 1576', CO to 1577'. POOH. LD hyd. bailer.  
Ran tbg. as follows:

1 jt 2 7/8" EUE 8R	15.00
1 S.N. 2 7/8" EUE 8R	1.10
47 jts. 2 7/8" EUE 8R J-55	
6.5#	1471.72
1 pup 2 7/8" EUE 8R	4.00
	1491.82
RKB to THF	9.00
	1500.82

Ran rebuilt pump on same rod string:

1 2½ x 2 x 12 RWAC
57 rods 7/8" x 25" plain
2 " 7/8" x 6' "

3/08/83

2 rods 7/8" x 4'  
1 P.R. 1-¼" x 16' w/ liner.  
Spaced pump & resumed pumping.  
RD MO PU.

Well back on production, 3/8/83.

Well test 4/17/83; 25 BO, 235 BW, 24 hr. test.

FINAL REPORT.