

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.  
14-20-603-734

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"/>	2. NAME OF OPERATOR ARCO Oil and Gas Company, Div. of Atlantic Richfield Company	3. ADDRESS OF OPERATOR 707-17th Street, P.O. Box 5540, Denver, CO 80217	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Unit M, 312' FSL & 323' FWL, Sec. 33	5. UNIT AGREEMENT NAME Horseshoe Gallup Unit	6. FARM OR LEASE NAME Horseshoe Gallup Unit	7. WELL NO. 290	8. FIELD AND POOL, OR WILDCAT Horseshoe Gallup	9. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33-31N-16W	10. COUNTY OR PARISH San Juan	11. STATE N.M.
14. PERMIT NO. API#30-045-21926	15. ELEVATIONS (Show whether of FSL or FWL) 5331' GR		16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA							

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <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 Gallup 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 03 1985

OIL CON. DIV.  
DIST. 3

ACCEPTED FOR RECORD

JAN - 3 1985

FARMINGTON RESOURCE AREA

BY: *[Signature]*

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

SIGNED Stephen Rose / S.R.

TITLE District Prod. Sup't.

DATE Dec. 15, 1984

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

NMOCC

Lease or Unit	Well no.
Horseshoe Gallup Unit, "B"	290

2/24/83

MI RU PU. POOH rods & pump & 39 jts. 2 7/8" EUE 8R tbg.  
No signs of scale.

PU 4 3/4" OD bit & Baker model C-3, size 12B csg. scraper.  
RIH to PBTD at 1260'.

RU Nowsco and circulated hole. Returns mostly water w/  
iron sulfide. Pumped total of 80 bbls; got clean returns.  
Broke circ. & POOH. LD bit & scraper.

RU Welex 4" guns & RIH. Perf'd Lower Gallup f/ 1206'-42'  
w/ 2 jet SPF.  
POOH, RD.

Pumped 40 bbls water w/ 55 gal. S-271 scale inhib. w/  
Nowsco unit. Displaced into perfs 1206'-42' w/125 bbls.  
water. Pumped 3-4 bpm at 350-400 psi. SI 30 min, then  
bled pressure.

PU Baker model C size 45B RBP on tbg. RIH to 1160' and  
set. POOH to 1135'. Tested plug & csg to 1280 psi w/  
Nowsco unit, Spotted 500 gal. 15% HCI w/2gal. NAI-161  
inhib., 1/2 gal. NNE-257 surfactant, 10# NIS-546 iron seq.  
POOH.

RU Welex 4' guns & RIH. Perf'd Upper Gallup f/ 1114'-38'  
w/2 jet SPF. POOH, RD.

Displaced acid into perfs 1114'-38' w/28 bbls. water.  
Pumped 3 bpm at 300 psi. SFN.

2/25/83

RU Nowsco & broke down formation w/24 bbls. 2% KCl water,  
pumped 21 bpm at 300 psi. SD pumping for 2 min, ISIP 100  
PSI. Frac'd down 5 1/2" csg. w/ 10,000 gal. cross-linked  
20#/1000 gal. and 27,800# 10/20 sand. Pumped as per  
fluid schedule:

<u>BBLS.</u>	<u>PROP.</u>	<u>PROP.</u> <u>CONC.</u>	<u>RATE</u>	<u>PRESS.</u>
48	Pad	- - -	22.5 bpm	580 psi
17	10/20	1 ppg	22.5 "	570 "
19	"	2 "	22.5 "	540 "
24	"	3 "	22.3 "	530 "
59	"	4 "	22.0 "	490 "
59	"	5 "	21.8 "	520 "
27	Flush	---	22.4 "	520 "

SD pumping. ISIP-300 psi.

After 5 min	230 "
10 "	210 "
15 "	200 "

RD Nowsco. Will allow gel to break overnight. SFN.

2/26/83

Bled csg., flowed a few gallons water. PU Baker size 3-5/8" Depck hydrostatic tubing bailer & RIH, tagged sand at 1100', CO to 1160', POOH to 1100'. Waited approx. 2 min. RIH again to 1160', could not detect fill-in. Latched & pulled Baker Model C, size 45B RBP. POOH. LD hyd. bailer & RBP.

Prepared to run pumping equipment. RIH w/ tbg. to 1200', tagged soft fill-in.

PU Baker hyd. tbg. bailer and RIH. CO to PBTD at 1260'. POOH. LD hyd. bailer.

Ran tbg. as follows:

1 jt. 2 7/8" EUE 8R J-55 6.5#	16.70
1 S.N. 2 7/8" EUE 8R	1.10
38 jts. 2 7/8" EUE 8R J-55 6.5#	1180.94
1 pup jt. 2 7/8" EUE 8R	8.10
1 jt. 2 7/8" EUE 8R	31.07
	<u>1237.91</u>

2/26/83

	1237.91
RKB to THF	9.00
	<u>1246.91</u>

Ran rebuilt pump on same rod string:

- 1-2½ x 2 x 12 RWAC pump
- 48 7/8" x 25' plain rods
- 1-7/8" x 6' pony
- 1-7/8" x 8'
- 1-1½ x 16' P.R. w/ liner

Spaced pump and resumed pumping. RD PU.

Well back on production, 2/26/83.

Well Test 3/17/83: 21 BO, 288 BW, 24 hr. test.

FINAL REPORT