

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

11-20-603-2022

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Horseshoe Gallup Unit

8. FARM OR LEASE NAME

Horseshoe Gallup Unit

9. WELL NO.

287

10. FIELD AND POOL, OR WILDCAT

Horseshoe Gallup

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 24-31N-17W

12. COUNTY OR
PARISH

San Juan

13. STATE

New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

Atlantic Richfield Company

3. ADDRESS OF OPERATOR

501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface Unit #1 (SW 1/4) - 1150' S/North & 1250' E/East line

At top prod. interval reported below Sec. 24-31N-17W

Approx same

At total depth Approx same

API #30-045-21923

14. PERMIT NO.

Mr. Neelinger

DATE ISSUED

11/12/75

12. COUNTY OR
PARISH

San Juan

13. STATE

New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
12/4/75	12/7/75	12/24/75	5830' OL, OL-AB 10.5'	5830'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
1622' KB	1508'	-	→	0-1622'	0

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

1537-1563' - Gallup fm.

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction Electrollog, Densilog, Gamma Ray, Cement Bond

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	32	134.15' KB	12-1/4"	100 sx, circ to surf.	none
5-1/2"	11	1621' KB	7-7/8"	225 sx	none

29. LINER RECORD none

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	1580'	none

31. PERFORATION RECORD (Interval, size and number)

1537-1563' 2 jet shots/foot

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1537-1563'	1000 gal mud acid

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or Shutting)
12/21/75	Pumping - 2" bore pump, 12 - 61" SW	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12/30/75	21	-	→	10 bbl	1331	106 bbl	6 -

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
-	-	→	10	1331	106	42

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Used on lease, volume negligible

TEST WITNESSED BY

J. E. Taylor

35. LIST OF ATTACHMENTS

Gamma Ray & Cement Bond log; Daily History

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

W. A. Walther Jr.

TITLE

Dist. Prod. & Drilg. Supt.

DATE

1/5/76

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
L. Gallup	1532'	1562'	Sandstone, gray, stain & odor, shale laminations.	U. Gallup L. Gallup	1124' 1532'	

12/02/75		Rd & loc comp. Prep to MIRT. Coleman Drlg Co - Contr. Loc: 1450' f/N & 1250' f/W lines Section 24-31N-17W, San Juan County, New Mexico. Elev 5830' GL, ung	
12/03/75		MIRT,	
12/04/75	28	Drig. SPUD 12-1/4" hole 4:00 a.m. 12/4/75.	\$ 3,475
12/05/75	140	WOC, nipl'g up. Drld 12-1/4" hole to 140'. Ran 5 jts 8-5/8" OD 32# 8V SH csg set @ 138.45' KB, cmt'd w/100 sx Class 'B' w/2% CaCl, PD 4:15 p.m. 12/4/75. Cm circ gd. Baker guide shoe & 2 Bkr centralizers. Elev. 5830' GL, GL-KB 10.50'.	\$ 5,632
12/06/75	194	Drig. 1/2" @ 90' & 140'. 70 RPM, 10M#. Nipl'd up BOP & Shaffer drlg head. WOC 18 hrs. Att to test csg & BOP & would not hold. Ran WL & found top cmt plug @ 112'. Dropped 2nd plug, pumped 7-1/2 BW, press to 700#, had cellar leak, BOP flange, rep'd leak. Tstd csg & BOP to 800#, held OK. Ran WL & checked 2nd plug @ 111'. Drld out 4 a.m. 12/6/75. Mud 8.8#, 29 vis, 10.2 WL.	\$ 9,681
12/07/75	1110	Drig. 3/4" @ 435', 1" @ 724', 1" @ 1095'. 70 RPM, 30M#. Mud 8.8#, 29 vis, 8.6 WL. B#2, HTC, X3A, 112-573', 461' in 12 hrs. B#3, Smith, S-DT, in @ 573', 537' in 15 hrs.	\$ 19,151
12/08/75	1622	TD - logging. 1-1/2" @ 1366'. Mud 9.1#, 48 vis, 8 WL. Drld to 1622'. Cond'd hole, POH. Ran DIL TD - Surf csg. Finsiing Fm Dens-GR w/cal. B#3, Smith, SDT, 573-1622', 1049' in 28 hrs.	\$ 26,011
12/09/75	1622	TD - WOC. Finished Ind & Comp Density log. Ran 51 jts, 1610.50', 14#, K-55 8r LT&C SH csg set at 1621' RKB, cmt'd w/150 sx HOWCO Lite w/10# gilsonite/sx, followed w/75 sx neat cmt, PD 8:45 p.m. 12/8/75. Mud circ thruout job. Reciprocated pipe during cmt job. 5 centralizers, 20 recip'g scratchers f/1445-1598' Rig rel 11:00 p.m. 12/8/75	\$ 42,811
12/10/75	1622	TD - WOC	\$ 42,811
12/11/75	1622	TD - WOC. Set anchors.	\$ 42,811
12/12/75	1622	TD - WOC	\$ 42,811
12/13/75	1622	TD - WOC	
12/14/75	1622	TD - WOC	
12/15/75	1622	Prep to MI compl. unit	\$ 42,811
12/16/75	1588	PB - Prep to perf. MI & RU Farmington Well Service. Tally & PU 2-7/8" OD EUE tbg, PBTB 1588'KB tbg tally. Displ hole w/1% KCl wtr. Pld tbg. Ran CBL & GR-correl logs, gd bond f/btm to 200' (pld out of fluid & quit logging) SDON 44,3	\$ 46,033
12/17/75	1588	PB - To cont swbg. Swbd dn to 1330'. Perf'd Gallup 1537-63', Dens. log meas., 2 shots/ft w/4" Atlas jet gun. Ran 2-7/8" tbg w/SN. Swbd 6 BLW & 14 B fm W in 4 hrs, swbd dry, no show of oil. SDON. Sli amt gas on well head this a.m.	\$ 46,033
12/18/75	1588	PB - Prep to acidize w/1000 gal mud ac. Swbd 42 BF in 9 hrs, trace oil, some green frothy crud, est 98% wtr. Plg f/btm, 3 pulls/hr, 4-5 bbl/hr. SDON. \$46,61	\$ 46,611
12/19/75	1588	PB - Prep to swab. Yest a.m. FL 150'. Pld tbg. Ran 2-7/8" tbg w/Bkr full bore pkr & 4 jts tail pipe, TP @ 1570', pkr @ 1450'. Spot 1-1/2 bbl mud acid across perfs 1537-63', set pkr, trt'd w/1000 gal mud acid, 3/4 BPM, MP 500# displ w/8 BW. Let soak 2 hrs, flush w/12 add'l BW, Avg TP 300#, AIR 1 BPM, JC 2 p.m. Plc tbg & pkr. Ran 2-7/8" tbg, landed @ 1580'. SN @ 1550'. Total load 79 bbl. SDON	
12/20/75	1588	PB - Swbg. Yest a.m., hole full. Thawed well head. Swbd 61 BF in 8 hrs. Swbd dry in 3 hrs, then swbd 90' Fluid in tbg/hr, est 1% oil, -18 BL, SDON.	\$ 49,983
12/21/75	1588	PB - SD a/c Sunday. CP 100#, after O'nite SI. Swbd 18 BL & 45 BNF in 8 hrs. Plg f/seating nipple, 1% oil, 4% BS&W, 95% wtr.	\$ 50,583
12/22/75	1588	PB - SD a/c Sunday. Prep to swab:	\$ 50,583
12/23/75	1588	PB - Instl'g elec., temp flow line & MI pmpg unit. Swbd 26 BF in 3 hrs & swbd dn, trace oil, 95% wtr, 1% oil, 4% BS&W. Ran 2" bore pump on 7/8" rods. Rig rel 4 p.m. 12/22/75.	\$ 56,483
12/24/75	1588	PB - Prep to lay temp flow line. Set pmpg unit, hooking up elec.	\$ 58,023
12/25/75	1588	PB - Pmpg f/test. Inst temp flow line, conn'd elec. On pump 3:00 p.m. 12/24/75	
12/26/75	1588	PB - Pmpg f/test. Pmp 5 B0, 165 BW in 19 hrs. (3% oil, 97% wtr) 2" pump, 12 - 64" SPM.	\$ 58,023
12/27/75	1588	PB - Pmp 6 B0, 204 BW in 24 hrs f/Gallup perfs 1537-63', 2" bore pmp, 12 - 64" SPM.	\$ 58,023
12/28/75	1588	PB - Pmp 5 B0, 167 BW 24 hrs, 3% oil	\$ 58,023
12/29/75	1588	PB - Pmp 6 B0, 185 BW 24 hrs, 3% oil	\$ 58,023
12/30/75	1588	PB - COMPLETED OIL WELL 12/30/75. Pmpd 10 B0 & 186 BW in 24 hrs f/Gallup perfs 1537-1563', 2" bore pump, 12 - 64" SPM.	