

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-2022

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.

291

10. FIELD AND POOL, OR WILDCAT

Horseshoe Gallup

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

Sec. 23-31N-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 **RECEIVED**

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other **AUG 19 1976**

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 "A" (NE NE)- 50' f/North & 50' f/East lines Sec. 23

At top prod. interval reported below Approx. same

At total depth Approx. same

API #30-015622102

14. PERMIT NO.

Mr. McGrath

DATE ISSUED

6/7/76

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

15. DATE SPUDDED

7/16/76

16. DATE T.D. REACHED

7/20/76

17. DATE COMPL. (Ready to prod.)

8/4/76

18. ELEVATIONS (DF. REB, RT, GR, ETC.)\*

5873' GL; 5884' KB

19. ELEV. CASINGHEAD

5873'

20. TOTAL DEPTH, MD & TVD

1625' MD

21. PLUG, BACK T.D., MD & TVD

1596'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

→

ROTARY TOOLS

0-1625'

CABLE TOOLS

0

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

Lower Gallup - 1555-1563' MD (Perfs)

L. Gallup Fm. 1553-1586'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

I-ES w/ GR; GR-Collar correl.

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"	24#	141' KB	12-1/2"	120 sx Cl. "B", 2% CaCl.	none
5-7/2"	14#	1625' KB	7-7/8"	225 sx total	none

29. LINER RECORD none

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8" CD					2-7/8" CD	1585'	no packer

31. PERFORATION RECORD (Interval, size and number)

1555-1563' - Blue Jet 4" carrier gun, 2 shots per foot

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1555-1563'	2000 gal pad, 38,000 gal gelled wtr w/ 64,000# 20-40 sand 1100 gal water flush

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)		
7/31/76 (Swbg)		Pumping - 2" bore pump, 14 - 64" SPM				Producing		
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROP'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
8/6/76	24 hrs	-	→	53 bbl	TSTM	328 BW	-	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
-	-	→	53 bbl	TSTM	328 bbl	42°		

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

TSTM - Used on Lease

TEST WITNESSED BY

Mr. Ralph Marker

35. LIST OF ATTACHMENTS

Daily Well History; cc of New Mexico Oil Cons. Comm. reports.

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

SIGNED M. E. Brown  
M. E. Brown

TITLE Operations Information, Asst. DATE 8/16/76

\*(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 POROSITY 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

FORMATION TOP BOTTOM DESCRIPTION, CONTENTS, ETC.

L. Gallup 1553 1586' SS, stain & odor, shale lam'ns, gray

**GEOLOGIC MARKERS**

NAME MEAS. DEPTH TOP TRUE VERT. DEPTH

Upper Gallup 1451'  
Lower Gallup 1553'