

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

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SUBMIT TO PUBLICATION*

(See instructions on reverse side)

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

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
P. O. Box 1710, Hobbs, New Mexico 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State or Federal laws)
At surface 1300' FNL & 1220' FWL (Unit letter D)
At top prod. interval reported below as above
At total depth as above

14. PERMIT NO. _____ **DATE ISSUED** SEP 27 1977

5. LEASE DESIGNATION AND SERIAL NO.
NM 025604

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Empire Abo Pressure Maintenance Project

8. FARM OR LEASE NAME
Empire Abo Unit "M"

9. WELL NO.
901

10. FIELD AND POOL, OR WILDCAT
Empire Abo

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
10-18S-27E

12. COUNTY OR PARISH Eddy **13. STATE** N.M.

15. DATE SPUDDED 7/17/77 **16. DATE T.D. REACHED** 8/2/77 **17. DATE COMPL. (Ready to prod.)** 9/18/77 **18. ELEVATIONS (DF, REB, BT, GR, ETC.)*** 3507.7' GR **19. ELEV. CASINGHEAD**

20. TOTAL DEPTH, MD & TVD 6106' **21. PLUG, BACK T.D., MD & TVD** _____ **22. IF MULTIPLE COMPL., HOW MANY*** _____ **23. INTERVALS DRILLED BY** ROTARY TOOLS 0-6106' CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5766-5784' Abo Reef **25. WAS DIRECTIONAL SURVEY MADE** No

26. TYPE ELECTRIC AND OTHER LOGS RUN
FDC w/Caliper, GR-N, CBL-VD, DLL w/RXO & Caliper, GR-CNL

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8" OD	24#	1000'	11"	300 SX	
5-1/2" OD	14#	6106'	7-7/8"	1295 SX	

29. LINER RECORD **30. TUBING RECORD**

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8" OD	5698'	5669'

31. PERFORATION RECORD (Interval, size and number)
5766-5784' (36 - .45" holes) 2 JSPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5766-5784' 500	gals LC, 500 gals 10# CaCl wtr,
2000	gal 60/40 15% HCL/xylyene, 500 gal
lse	crude
5766-5784' 300	gal 15% HCL-NE acid w/iron seq.

33. PRODUCTION

DATE FIRST PRODUCTION 8/15/77 **PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)** Pumping - 2" x 1 1/2" x 18' rod pump **WELL STATUS (Producing or shut-in)** Prod

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9/18/77	24		→	131	80	15	610:1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
		→	131	80	15	44°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold **TEST WITNESSED BY** N. H. Truitt

35. LIST OF ATTACHMENTS
Logs as listed in Item 25 above & Inclination Report.

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

SIGNED _____ TITLE Dist. Drlg. Supt. DATE 9/20/77

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

RECEIVED
SEP 23 1977
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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 23: "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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP		
					MEAS. DEPTH	TRUE VERT. DEPTH	
				38.	GEOLOGIC MARKERS		
				Abo Reef	5410'		