

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPL. E\*

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

NM 025604

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Empire Abo Pressure  
Maintenance Project  
S. FARM OR LEASE NAME

Empire Abo Unit "L"

9. WELL NO.

111

10. FIELD AND POOL, OR WILDCAT

Empire Abo

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

3-18S-27E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

19. ELEV. CASINGHEAD

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 V

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 requirements)\*

At surface 2485' FEL & 20' FSL (Unit letter O)

At top prod. interval reported below

At total depth as above

14. PERMIT NO.

OCT 1 1976

15. DATE SPUDDED

8/9/76

16. DATE T.D. REACHED

8/22/76

17. DATE COMPL. (Ready to prod.)

9/9/76

20. TOTAL DEPTH, MD & TVD

6021'

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

5984'

22. IF MULTIPLE COMPL., HOW MANY\*

ARTESIA, NEW MEXICO

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

5952-5970' Abo Reef

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR Neutron, Dual Laterolog w/RXO, Sonic, Comp Neutron Fm Density

25. WAS DIRECTIONAL SURVEY MADE

No

27. WAS WELL COBED

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" OD	24#	1000'	11"	375 SX	
5-1/2" OD	14 & 15.5#	6021'	7-7/8"	1613 SX	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8" OD	5912'	5875'

31. PERFORATION RECORD (Interval, size and number)

5952-5970' = 30 -.48" holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5699-5714'	2000 gals 15% HCL-LSTNE acid
5699-5714'	Cmt squeezed w/130 sx Cl C
5952-5970'	4000 gals 15% HCL-LSTNE
5952-5970'	6000 gals 15% HCL-xylene 50/50

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
9/6/76	Flowing	Producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9/23/76	24	32/64"	→	174	124	3	713:1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
110#	Pkr	→	174	124	3	44.0°	

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

Sold

TEST WITNESSED BY

J. M. Arning

35. LIST OF ATTACHMENTS

Logs as listed in Item 26 above & Inclination Report

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

SIGNED *J. M. Arning*

TITLE Dist. Drlg. Supv.

DATE 9/28/76

# 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 38, 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:** "Seeks General": 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 HOKOTS ZONES:**  
 SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; COARD 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	GEOLOGIC MARKERS	
					MEAS. DEPTH	TRUE VERT. DEPTH
Abo Reef	5542'	5567'	DST #1. TO @ 5:27 AM 8/22/76 w/strong blow gas to surf in 1 1/2 min. Tstd 1 hr, rec 1177 MCFGPD, no fluid, FTP 210#, sep press 90#, 3/4" ck. Closed tool @ 7:22 AM 8/25/76.	Abo Reef	5366'	
Abo Reef	No water cushion	5629'	DST #2. TO w/strong blow, flwd 1 hr to pit for cleanup. Tstd 1 1/2 hrs, rec 13.2 MCFGPD, no fluid.			
Abo Reef	No water cushion	5675'	DST #3. TO @ 12:10 PM 8/25/76. Flwd 1 hr to pit for clean up. Tstd 1 hr, rec 16 MCFGPD w/light spray of oil TSTM, FTP 110#, sep press 95# on 3/4" ck. Closed tool @ 2:30 PM 8/25/76.			
Abo Reef	No water cushion	5737'	DST #4. TO @ 3:35 PM 8/25/76. Flwd 2 hrs to pit for clean up. Tstd 1 hr, rec 257 MCFGPD w/no fluid, FTP 50#, sep press 30# on 3/4" ck. Closed tool @ 6:38 PM 8/25/76.			
Abo Reef	No water cushion	5778'	DST #5. TO @ 7:40 PM 8/25/76. Flwd 3 hrs to pit for clean up. Tstd 1/2 hr, rec 7 MCFGPD w/no fluid, FTP 2#, sep press 0#. Closed tool @ 11:00 PM 8/25/76. RO, rec 2 BO.			