

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPL. E*

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 025604	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Empire Abo Pressure Maintenance Project	
2. NAME OF OPERATOR Atlantic Richfield Company V		7. UNIT AGREEMENT NAME Empire Abo Unit "L"	
3. ADDRESS OF OPERATOR P. O. Box 1710, Hobbs, New Mexico 88240		8. WELL NO. 111	
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		10. FIELD AND POOL, OR WILDCAT Empire Abo	
11. PERMIT NO. OCT 1 1976		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 3-18S-27E	
12. COUNTY OR PARISH Eddy		13. STATE N.M.	
15. DATE SPUDDED 8/9/76		16. DATE T.D. REACHED 8/22/76	
17. DATE COMPL. (Ready to prod.) 9/9/76		19. ELEV. CASINGHEAD 5510' GR	
20. TOTAL DEPTH, MD & TVD 6021'		21. PLUG, BACK T.D., MD & TVD 5984'	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY 0-6021'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5952-5970' Abo Reef		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN GR Neutron, Dual Laterolog w/RXO, Sonic, Comp Neutron Fm Density		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
8-5/8" OD	24#	1000'	11"
5-1/2" OD	14 & 15.5#	6021'	7-7/8"
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
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 9/6/76		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
DATE OF TEST 9/23/76		WELL STATUS (Producing or shut-in) Producing	
HOURS TESTED 24	CHOKE SIZE 32/64"	PROD'N. FOR TEST PERIOD 174	GAS—MCF. 124
WATER—BBL. 3	GAS—OIL RATIO 713:1		
FLOW. TUBING PRESS. 110#	CASING PRESSURE Pkr	CALCULATED 24-HOUR RATE 174	GAS—MCF. 124
WATER—BBL. 3		OIL GRAVITY-API (CORR.) 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			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <i>J. M. Arning</i>		TITLE Dist. Drlg. Supv.	
DATE 9/28/76			

*(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 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: "Sticks 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; COARED 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	5604'	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	5650'	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	5712'	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	5778'	5803'	DST #5. TO @ 7:40 PM 8/25/76. Flwd 3 hrs to pit for clean up. Tstd 1 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.			