

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

SUBMIT IN DUPLICATE*

(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 Water Injection										5. LEASE DESIGNATION AND SERIAL NO. NM-2938	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____										6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Atlantic Richfield Company										7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 1978, Roswell, New Mexico 88201										8. FARM OR LEASE NAME Panco Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 2310' FNL, 2310' FWL Section 23 At top prod. interval reported below At total depth										9. WELL NO. 4	
14. PERMIT NO. _____ DATE ISSUED 10-21-69										10. FIELD AND POOL, OR WILDCAT Shugart-Queen	
15. DATE SPUDDED 11-7-69 16. DATE T.D. REACHED 11-16-69 17. DATE COMPL. (Ready to prod) 11-23-69 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3682' GR										11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 23, T18S, R31E	
20. TOTAL DEPTH, MD & TVD 3535'		21. PLUG, BACK T.D., MD & TVD 3493'		22. IF MULTIPLE COMPL. HOW MANY _____		23. INTERVALS DRILLED BY ROTARY TOOLS		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3449-3459' Queen (WIW)		25. WAS DIRECTIONAL SURVEY MADE No	
						0-3535'				27. WAS WELL CORED No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray-Neutron											
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#		814.41'		12-1/4"		400 sx Class "C"		None	
5-1/2"		15.5#		3529.00'		7-7/8"		300 sx Class "C" near		None	
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"	3396'	3396'				
31. PERFORATION RECORD (Interval, size and number) 3449-3459 w/two 1/2" JSPF						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)						AMOUNT AND KIND OF MATERIAL USED					
3449-3459						1000 gal 15% LSTNE HCl acid					
						10,000 gal fresh water &					
						15,000# 20/40 sand					
33. PRODUCTION											
DATE FIRST PRODUCTION -- WIW		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						WELL STATUS (Producing or shut-in)			
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)								TEST WITNESSED BY			
35. LIST OF ATTACHMENTS GR-N log & Deviation Survey											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records											
SIGNED P.D. Stitches				TITLE Dist. Drlg. Supervisor				DATE 12-2-69			

*(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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
GR-N log & Deviation Survey				Anhydrite	712	
				Salado Salt	900	
				Yates	2263	
				Queen	3417	

DONNELLY DRILLING CO., Inc. N. M. O. C. C. COPY-
OIL WELL DRILLING CONTRACTORS
P. O. BOX 433

ARTESIA, NEW MEXICO 88210
November 18, 1969

Atlantic Richfield Company
P. O. Box 1978
Roswell, New Mexico 88201

Attention: Mr. O. D. Bretches

Panco Federal No. 4 Well
2310' FNL, 2310' FNL, Section 23, T18 S, R31E, Eddy County, New Mexico

Deviation Record

<u>Test No.</u>	<u>Depth</u>	<u>Degree Off</u>
1	427'	1/4
2	720'	3/4
3	1350'	1
4	1693'	1 1/2
5	2340'	1 1/4
6	2650'	1 1/4
7	3057'	1/2
8	3530'	1

The undersigned hereby certifies that he is an authorized representative of the drilling contractor, Donnelly Drilling Co., Inc. who drilled the above described well and that he conducted deviation tests and obtained the results set out above.

Donnelly Drilling Co., Inc.

by T. H. Donnelly
T. H. Donnelly, President

Subscribed and sworn to before me this 17th day of November 1969.

LOUIS C. BAKER, NOTARY PUBLIC
MY COMMISSION EXPIRES APRIL 2, 1970

Louis C. Baker
Notary Public