

November 16, 1981

Cheryl J. Trench
Petroleum Industry Research
Foundation, Inc.
122 East 42nd Street
New York, New York 10168

Re: U.S. Oil and Gas Exploration Survey

Dear Ms. Trench:

In response to J. H. Lichtblau's letter of September 17, 1981, to Mr. Robert O. Anderson, enclosed is Atlantic Richfield Company's completed survey for the years 1976 - 1980.

If you should have any questions, please feel free to call me at (213) 486-1828.

Sincerely,

Sharon K. Mark

Sharon K. Mark
Consolidation Accounting

SKM:sm

Enclosures

U.S. OIL AND GAS EXPLORATION SURVEY

NAME OF COMPANY: Atlantic Richfield Company

NAME OF INDIVIDUAL CONTACT: S. K. MARK

TELEPHONE

Please report all data on a net company interest basis. Include natural gas liquids with crude oil and lease condensate figures. Lease requests data on changes in proved oil and gas reserves (both developed and undeveloped) analogous to that currently produced and to the Securities and Exchange Commission. Please report the reserves data consistently with those reports. Section 1100 directly references selected items of the Bureau of the Census Form MA-13K, "Annual Survey of Oil and Gas." In filling out Section 1100 previously reported to the Bureau of the Census on Form MA-13K to the extent possible. In reporting "Drilling Activity" information consistent with reports on the MA-13K for 1977-1980. Section C requests data on holdings of oil and gas acreage. See other

SECTION A
TOTAL UNITED STATES, NET COMPANY 1

	1980	1979	1978	1977
PROVED CRUDE OIL, CONDENSATE AND NATURAL GAS LIQUIDS RESERVES, DEVELOPED AND UNDEVELOPED, IN THOUSANDS OF BARRELS				
A. Total Proved Reserves at January 1	XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXX
B. Revisions of Earlier Estimates	112	107	66	201
C. Improved Recovery	2	3	-	1
D. Extensions, Discoveries and Other Additions	62	11	116	17
E. Production	204	197	192	14
F. Net Change Due to Purchases (Sales) of Proved Reserves	217	-	167	-
G. Total Proved Reserves at December 31	2,559	2,588	2,781	2,880
PROVED NATURAL GAS RESERVES, DEVELOPED AND UNDEVELOPED, IN MILLIONS OF CUBIC FEET				
A. Total Proved Reserves at January 1	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
B. Revisions of Earlier Estimates	335	244	769	231
C. Improved Recovery	-	2	-	5
D. Extensions, Discoveries and Other Additions	327	480	351	321
E. Production	472	490	502	520
F. Net Change Due to Purchases (Sales) of Proved Reserves	2	-	27	3
G. Total Proved Reserves at December 31	13,546	19,354	13,126	12,500

n/a

NE: (213) 486-1828

Section A of this questionnaire provided in company Annual Report B of this questionnaire. If you have information for 1976, use a separate set of notes on page 4.

INTEREST BASIS	
1976	
Estim. 2,709	
N/A	
N/A	
N/A	
<118>	
-	
2,737	
2,198	
N/A	
N/A	
N/A	
<532>	
-	
12,470	

Not Available.

NAME OF COMPANY: Atlantic Richfield Company

U.S. OIL AND GAS EXPLORATION SURVEY (C)

SECTION B

These questions correspond directly to the referenced items in the Bureau of the Census Form MA-13K. If the data previously reported to the Bureau of the Census on that form, to the extent possible, are not available, please indicate this on the form.

TOTAL UNITED STATES

III. EXPENDITURES, CAPITALIZED AND EXPENSED, IN THOUSANDS OF DOLLARS		1980		1979	
Line Reference	Item #	On-shore	Off-shore	On-shore	Off-shore
13	III.A. A.	1,241,300		758,900	
14	III.A.1. 1.	511,300		313,100	
26	III.B. B.	860,800		482,100	
27	III.B.1. 1.	Estim. 460,800		Estim. 334,200	

IV. DRILLING ACTIVITY: PHYSICAL DATA FOR WELLS COMPLETED DURING THE YEAR, NUMBER OF WELLS AND THOUSANDS OF FEET DRILLED

Form Reference	Line #	Item #	1980		1979	
			On-shore	Off-shore	On-shore	Off-shore
Form MA-13K	60	VI.A.1.a.	27	17	22	11
	61	VI.A.1.b.	237	206	212	143
	62	VI.A.2.a.	5	2	14	1
	63	VI.A.2.b.	34	17	88	14
	64	VI.A.3.a.	11	3	10	1
	65	VI.A.3.b.	130	29	98	8
	66	VI.B.1.a.	22	2	27	1
	67	VI.B.1.b.	130	15	135	9
	68	VI.B.2.a.	348	10	314	13
	69	VI.B.2.b.	1,792	93	1,544	124
	70	VI.B.3.a.	107	12	77	4
	71	VI.B.3.b.	743	74	585	40

US Form MA-13K. Please repeat possible.

UNITED STATES, NET COMPANY INTEREST BASIS

	1978		1977		1976	
	On-shore	Off-shore	On-shore	Off-shore	On-shore	Off-shore
Off-shore						
	448,900		467,800		366,400	
	256,700		239,100		118,900	
	445,900		371,600		441,400	
	255,700		147,400		412,700	
11	21	40	7	1	3	7
143	200	414	49	10	39	44
1	4	3	3	2	1	8
14	81	42	20	23	7	66
1	6	4	2	1	2	-
8	78	36	32	4	27	3
1	22	7	12	5	11	1
9	136	69	73	46	97	12
13	308	13	275	18	157	16
124	1,377	131	1,447	179	763	188
4	72	7	65	6	34	1
40	515	55	480	50	238	11

NET BASIS		
	9761	7761
	8607	9787
	1584	4215
	6221	6321

on your
later

INC.

contact

SECTION C

TOTAL UNITED STATES, NET COMPANY INTEREST BASIS

	1980	1979	1978	1977
AND GAS ACREAGE, IN THOUSANDS ACRES				
Net Acreage in which Respondent Holds an Interest				
1. Developed	1,345	1,275	1,252	1,239
2. Undeveloped	8,228	6,746	5,267	5,124
3. Total	9,573	8,021	6,519	6,363
Net Acreage Assigned to Another Party Under a Farm-Out Agreement				
1. Developed	N/A	N/A	N/A	N/A
2. Undeveloped	N/A	N/A	N/A	N/A
3. Total	91	114	59	63

N/A = NOT AVAILABLE.

If you have any questions concerning this survey, please contact

Cheryl J. Trench
 Petroleum Industry Research Foundation, Inc.
 122 East 42nd Street
 New York, N.Y. 10168
 (212) 867-0052

We welcome comments on the questionnaire or explanatory notes on your responses. Please attach a separate sheet.

Please return completed questionnaire to the address above no later than October 19, 1981.