



100 Matsonford Road  
Radnor, Pennsylvania 19087

October 21, 1981

Mr. John H. Lichtblau  
President  
Petroleum Industry Research Foundation, Inc.  
122 East 42nd Street  
New York, NY 10168

Dear Mr. Lichtblau:

In reference to your letter to Mr. T. A. Burtis, Chairman of the Board of Sun Co. regarding the U.S. Oil & Gas Exploration Survey, please find our response as you have requested.

If you desire any further information on this subject, please contact Allen Freeman, Sun Production Co., Dallas, TX .

Sincerely,

A handwritten signature in cursive script that reads "J. E. Roberts".

J. E. Roberts

/rmm

Enclosures

cc: A. Freeman

NAME OF COMPANY:

SUN, INC.

NAME OF INDIVIDUAL CONTACT:

ALLEN FREEMAN

TELEPHONE:

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

SECTION A

TOTAL UNITED STATES, NET COMPANY INTEREST

	1980	1979	1978	1977
1. PROVED CRUDE OIL, CONDENSATE AND NATURAL GAS LIQUIDS RESERVES, DEVELOPED AND UNDEVELOPED, IN MILLIONS OF BARRELS	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
A. Total Proved Reserves at January 1	9	(12)	(28)	12
B. Revisions of Earlier Estimates	7	1	2	1
C. Improved Recovery	18	18	16	7
D. Extensions, Discoveries and Other Additions	(75)	(75)	(82)	(88)
E. Production				
F. Net Change Due to Purchases (Sales) of Proved Reserves	126	1	6	13
G. Total Proved Reserves at December 31	751	666	733	819
II. PROVED NATURAL GAS RESERVES, DEVELOPED AND UNDEVELOPED, IN BILLIONS OF CUBIC FEET	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
A. Total Proved Reserves at January 1	68	(75)	(257)	9
B. Revisions of Earlier Estimates	4	2	1	3
C. Improved Recovery	208	135	352	172
D. Extensions, Discoveries and Other Additions	(384)	(398)	(384)	(420)
E. Production				
F. Net Change Due to Purchases (Sales) of Proved Reserves	333	25	50	39
G. Total Proved Reserves at December 31	3,424	3,195	3,506	3,744

Section A of this questionnaire in company Annual Report, please repeat the information for 1976, use a separate page 4.

Reference	1976
895	
41	
2	
21	
(93)	
8	
874	
4,057	
(75)	
1	
357	
(444)	
45	
3,941	

TOTAL DOMESTIC U.S. SUN, INC.

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.

III. EXPENDITURES, CAPITALIZED AND EXPENSED, IN THOUSANDS OF DOLLARS:

Form MA-13K Reference	Line	Item #	A. Total Exploration Expenditures	1980	1979
	13	III.A.	1. Total drilling and equipping wells	527,363	152,202
	14	III.A.1.	1. Total drilling and equipping wells	141,863	58,729
	26	III.B.	B. Total Development Expenditures	2,616,978	280,917
	27	III.B.1.	1. Total drilling and equipping wells	239,560	196,497

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

Form MA-13K Reference	Line	Item #	A. Exploration	1980		1979	
			1. Dry holes	On-shore	Off-shore	On-shore	Off-shore
	60	VI.A.1.a.	a. Number of wells	51.80	3.00	24.00	2.00
	61	VI.A.1.b.	b. Total footage drilled	428	35	271	9
	62	VI.A.2.a.	2. Oil wells	8.50	0.70	3.00	1.00
	63	VI.A.2.b.	a. Number of wells	74	10	27	8
	64	VI.A.2.b.	b. Total footage drilled	11.60	0.60	6.00	0.30
	65	VI.A.3.a.	3. Gas wells	11.60	0.60	6.00	0.30
	66	VI.A.3.a.	a. Number of wells	204	7	62	2
	67	VI.A.3.b.	b. Total footage drilled	36.60	4.50	42.00	1.00
	68	VI.B.1.a.	1. Dry holes	215	42	205	11
	69	VI.B.1.b.	a. Number of wells	285.30	9.70	261.00	4.00
	70	VI.B.2.a.	2. Oil wells	1401	77	1037	44
	71	VI.B.2.b.	b. Total footage drilled	78.50	8.40	75.00	5.00
	71	VI.B.3.a.	3. Gas wells	632	77	478	22
			a. Number of wells				
			b. Total footage drilled				

Please repeat

NET COMPANY INTEREST BASIS

1978	1977	1976
Off-shore	On-shore	Off-shore
47,718	86,948	129,752
53,784	30,703	25,789
65,629	266,901	188,291
15,254	139,132	66,540
2.43	14.78	22.41
32	147	126
0.40	1.95	3.40
5	20	26
0.30	9.89	3.41
4	85	40
0.96	26.09	7.83
15	147	66
2.04	205.64	163.90
38	958	831
3.04	74.36	22.67
38	592	230
3.04	9.05	9.01
38	88	68

NAME OF COMPANY: TOTAL DOMESTIC U.S. SUN, INC.

U.S. OIL AND GAS

V. OIL AND GAS ACREAGE, IN THOUSANDS

OF ACRES

A. Net Acreage in which Respondent Holds an Interest

1. Developed 2,084
2. Undeveloped 7,822
3. Total 9,906

B. Net Acreage Assigned to Another Party Under a Farm-Out Agreement

1. Developed 15
2. Undeveloped 15
3. Total 15

1980

If you have any q

We welcome comments responses. Please a

Please return comp t

SECTION C

TOTAL UNITED STATES, NET COMPANY INTEREST BASIS

Which Respondent Interest	E, IN THOUSANDS				
	1980	1979	1978	1977	1976
2,084	1,595	1,679	1,481	1,361	
7,822	3,647	2,826	2,342	2,788	
9,906	5,242	4,505	3,823	4,149	
-	-	-	-	-	-
15	5	615	44	11	
15	5	615	44	11	

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.