

**Tenneco Oil
Exploration and Production**
A Tenneco Company

Tenneco Building
P.O. Box 2511
Houston, Texas 77001
(713) 757-2131



*Send study
to Barbara
Short; McBean
no longer there*

October 28, 1981

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

Dear Ms. Trench:

Attached is the Tenneco Oil Company response to your "U.S. Oil and Gas Exploration Survey."

We regret the delay in returning the questionnaire, but we were concerned with compiling the most accurate information possible.

The following are explanatory comments for the various sections of the questionnaire:

Section A, I & II Proved Oil and Gas Reserves (developed and undeveloped).

For the years 1976 and 1977, the reserve numbers appearing in Tenneco's Form 10-K were those which were obtained from the independent consultants, DeGloyer and MacNaughton. We were unable to break down the DeGloyer and MacNaughton developed and undeveloped reserve numbers to the format used in this questionnaire. Tenneco's records showed we compiled only proved developed reserves for those two years and since we could provide the breakdown you requested, we used our proved developed reserve numbers for the 1976 and 1977 data. The proved reserves (developed and undeveloped) for the years 1978-80 were taken from Tenneco's annual reports.

Section B, III & IV

It was found that in the expenditures columns (capitalized and expensed) as well as the physical data for drilling activities we could represent Tenneco's figures more accurately by not using the numbers found in Form MA-13K. More representative information was found in Tenneco's Form 10-K as well as Form EIA-28.

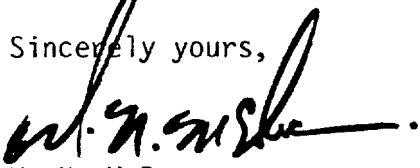
Section C, V B. Oil and Gas Acreage

In the section dealing with net acreage assigned to another party under a Farm-Out Agreement we could only come up with a total for the years 1976-80. There was no break out, but if one was absolutely necessary, the numbers could be shown as undeveloped. These numbers represent acreage where farmout activities actually took place; however, in many cases the well was drilled but the dry hole did not earn.

If, however, this portion of the questionnaire is strictly a net acres assigned basis, then, the numbers would be: 1976 52; 1977 32; 1978 21; 1979 10; 1980 not available.

If you have any questions regarding the material we have submitted, please call Barbara Short at (713) 757-2692.

Sincerely yours,

A handwritten signature in black ink, appearing to read "W. N. McBean", with a long horizontal flourish extending to the right.

W. N. McBean

WNM/BBS/cdh
Attachment

NAME OF COMPANY: Tenneco

NAME OF INDIVIDUAL CONTACT:

TELEPHONE:

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

	1980	1979	1978	1977
I. PROVED CRUDE OIL, CONDENSATE AND NATURAL GAS LIQUIDS RESERVES, DEVELOPED AND UNDEVELOPED, IN THOUSANDS OF BARRELS				
A. Total Proved Reserves at January 1	211,540	223,843	205,714	229,302
B. Revisions of Earlier Estimates	17,245	(8,779)	11,570	(1,718)
C. Improved Recovery	5,577	1,226	1,437	2,598
D. Extensions, Discoveries and Other Additions	23,896	25,676	30,300	22,090
E. Production	(31,547)	(32,409)	(32,288)	(33,820)
F. Net Change Due to Purchases (Sales) of Proved Reserves	(817)	1,813	7,110	20
G. Total Proved Reserves at December 31	225,894	211,370	223,843	218,655
II. PROVED NATURAL GAS RESERVES, DEVELOPED AND UNDEVELOPED, IN MILLIONS OF CUBIC FEET				
A. Total Proved Reserves at January 1	3,319,418	3,189,251	3,423,095	3,825,777
B. Revisions of Earlier Estimates	(20,198)	(54,925)	(192,295)	(136,50)
C. Improved Recovery	131	1,693	518	4
D. Extensions, Discoveries and Other Additions	364,889	432,754	354,526	328,77
E. Production	(407,904)	(411,580)	(399,019)	(401,86)
F. Net Change Due to Purchases (Sales) of Proved Reserves	2,592	9,320	2,426	(1,85)
G. Total Proved Reserves at December 31	3,258,928	3,166,513	3,189,251	3,614,38

TELEPHONE:

insate figures. Section A of this ques-
 at currently provided in company Annual
 reports. Section B of this questionnaire
 illing out Section B, please repeat the
 3 Activity" information for 1976, use a
 page. See other notes on page 4.

NET COMPANY INTEREST BASIS	
1977	1976
229,302	237,150
(1,718)	10,091
2,598	479
22,090	14,464
(33,820)	(32,589)
201	(293)
218,653	229,302
3,825,777	4,024,939
(136,503)	(17,106)
41	413
328,778	237,360
(401,861)	(418,250)
(1,850)	(1,579)
3,614,382	3,825,777

NAME OF COMPANY:

Texas

U.S. OIL

These questions correspond directly to the referenced items in the
 the data previously reported to the Bureau of the Census on that

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

Form MA-13K Reference	Line Item #	1980
III.A.A.	A. Total Exploration Expenditures	502,965
14	III.A.1. 1. Total drilling and equipping wells	109,880
26	III.B. B. Total Development Expenditures	449,790
27	III.B.1. 1. Total drilling and equipping wells	410,942

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
60	VI.A.1.a. 1. Dry holes	14.2	3.
61	VI.A.1.b. a. Number of wells	136	56
62	VI.A.2.a. b. Total footage drilled	3.6	9
63	VI.A.2.b. a. Number of wells	40	9
64	VI.A.3.a. b. Total footage drilled	4.6	7.
65	VI.A.3.b. a. Number of wells	48	89
	B. Development		
66	VI.B.1.a. 1. Dry holes	20.7	6.
67	VI.B.1.b. a. Number of wells	154	75
68	VI.B.2.a. b. Total footage drilled	88.2	3.
69	VI.B.2.b. a. Number of wells	483	31
70	VI.B.3.a. b. Total footage drilled	86.3	14
71	VI.B.3.b. a. Number of wells	717	161

UNITED STATES, NET COMPANY INTEREST BASIS

Firm Name	1978		1977		1976	
	On-shore	Off-shore	On-shore	Off-shore	On-shore	Off-shore
	253,236		117,970		95,669	
	45,876		22,467		14,147	
	202,321		155,551		131,159	
	198,909		155,551		129,954	
	16.7	3.4	7.1	3.7	10	5
	197.2	22.5	61.4	35.9	51	44
	2.3	1.3	.4	1.0	1	N/A
	30.9	26.2	7.2	7.7	11	N/A
	3	6.6	1.7	5.9	N/A	1
	3.1	65.4	16.1	49.6	N/A	15
	26	6.3	15.1	3.3	14	6
	85	55	119	28	102	46
	89	9.4	48.2	11.3	30	10
	428	97	316	115	259	126
	47	16.9	38.0	17.0	30	13
	278	189	346	176	356	153

NAME OF COMPANY: Tenneco

V. OIL AND GAS ACREAGE, IN THOUSANDS

OF ACRES

A. Net Acreage in which Respondent Holds an Interest

1. Developed
2. Undeveloped
3. Total

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

1. Developed
2. Undeveloped
3. Total

	19
	6.5
	6.5

Tenneco

SECTION C

TOTAL UNITED STATES, NET COMPANY INTEREST BASIS

AGE, IN THOUSANDS	1980	1979	1978	1977	1976
in which Respondent					
Interest	660	630	601	603	607
Assigned to	6,295	5,845	4,653	4,417	4,399
Property Under a	6,955	6,475	5,254	5,020	5,006
Agreement					
ded	131	66	171	76	100

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.