



PENNZOIL PLACE • P.O. BOX 2967 • HOUSTON, TEXAS 77001 • (713) 236-7878

November 30, 1981

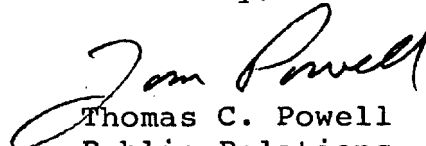
Ms. Cheryl J. Trench
Petroleum Industry Research
Foundation, Inc.
122 East 42nd Street
New York, NY 10168

Dear Ms. Trench:

Attached is Pennzoil's input for your oil and gas exploration activities survey. By way of explanation, our accounting people advise that the breakdown on reserves for 1977-1978 falls during a period where disclosure is not required; we consider these figures proprietary. Figures for net acreage assigned under farm-out agreements (page 3) are not maintained under our accounting computer programs.

We certainly apologize for the delay in returning the survey form. Your request totally got lost between the cracks.

Sincerely,


Thomas C. Powell
Public Relations

Att.

cc: Robert G. Harper
R. J. Howe

NAME OF COMPANY:

PENNZOIL COMPANY

NAME OF INDIVIDUAL CONTACT: E. C. SHIVERS

TELEPHONE:

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

	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	XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXX
B. Revisions of Earlier Estimates	5,119	3,179	(3,606)	*
C. Improved Recovery	2,939	5,032	1,047	*
D. Extensions, Discoveries and Other Additions	3,637	3,574	8,470	*
E. Production	(13,558)	(14,625)	(15,741)	*
F. Net Change Due to Purchases (Sales) of Proved Reserves	534	(68)	(1)	*
G. Total Proved Reserves at December 31	96,804	98,133	101,041	110,87
II. 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	95,050	30,274	(27,166)	*
C. Improved Recovery	-	1,527	-	*
D. Extensions, Discoveries and Other Additions	83,605	83,971	236,633	*
E. Production	(208,742)	(218,188)	(209,842)	*
F. Net Change Due to Purchases (Sales) of Proved Reserves	459	(140)	(3,367)	*
G. Total Proved Reserves at December 31	1,079,145	1,108,773	1,211,329	1,215,07

DIVIDUAL CONTACT: E. C. SHIVERS

natural gas liquids with crude oil and lease condensate figures. Section A of this questionnaire (both developed and undeveloped) analogous to that currently provided in company Annual Report the reserves data consistently with those reports. Section B of this questionnaire form MA-13K, "Annual Survey of Oil and Gas." In filling out Section B, please repeat the 13K to the extent possible. In reporting "Drilling Activity" information for 1976, use a Section C requests data on holdings of oil and gas acreage. See other notes on page 4.

SECTION A TOTAL UNITED STATES, NET COMPANY INTEREST BASIS

1980	1979	1978	1977	1976
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXX	114,202
5,119	3,179	(3,606)	*	*
2,939	5,032	1,047	*	*
3,637	3,574	8,470	*	*
(13,558)	(14,625)	(15,741)	*	*
534	(68)	(1)	*	107,826
96,804	98,133	101,041	110,872	
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXX	1,294,376
95,050	30,274	(27,166)	*	*
-	1,527	-	*	*
83,605	83,971	236,633	*	*
(208,742)	(218,188)	(209,842)	*	*
459	(140)	(3,367)	*	*
1,079,145	1,108,773	1,211,329	1,215,071	1,241,873

681	472	821
981	603	731
74	661	72
05	728	62
81	47	7
61	75	6
-	42	-
-	03	-
5	05	-
5	27	-
74	011	95
64	36	15
961	961	961
07696		
596711		
22152		
71776		
961		

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

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

Form MA-13K

Line Reference	Item #	1977	1976
13	III.A. A. Total Exploration Expenditures		211,136
14	III.A.1. 1. Total drilling and equipping wells		48,218
26	III.B. B. Total Development Expenditures	824	207,146
27	III.B.1. 1. Total drilling and equipping wells	1,899	119,711
		2,723	10

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

Form MA-13K

Line Reference	Item #	1980	
		On-shore	Off-shore
A. Exploration			
1. Dry holes			
60	VI.A.1.a. a. Number of wells	16.0	4.1
61	VI.A.1.b. b. Total footage drilled	153	22
2. Oil wells			
62	VI.A.2.a a. Number of wells	3.2	-
63	VI.A.2.b. b. Total footage drilled	41	-
3. Gas wells			
64	VI.A.3.a. a. Number of wells	4.2	-
65	VI.A.3.b. b. Total footage drilled	33	-
B. Development			
1. Dry holes			
66	VI.B.1.a. a. Number of wells	11.7	1.8
67	VI.B.1.b. b. Total footage drilled	68	21
2. Oil wells			
68	VI.B.2.a. a. Number of wells	176.4	4.8
69	VI.B.2.b. b. Total footage drilled	452	47
3. Gas wells			
70	VI.B.3.a. a. Number of wells	39.6	13.7
71	VI.B.3.b. b. Total footage drilled	218	133

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1977	1976
824	804
1,899	1,599
2,723	2,403
*	*
*	*
*	*

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U.S. OIL AND GAS EXPLORATION SURVEY (CONT'D)

NAME OF COMPANY: PENNZOIL COMPANY

SECTION C

TOTAL UNITED STATES, NET COMPANY INTEREST BASIS

	1980	1979	1978
V. OIL AND GAS ACREAGE, IN THOUSANDS OF ACRES			
A. Net Acreage in which Respondent Holds an Interest			
1. Developed	867	836	829
2. Undeveloped	3,375	3,014	2,554
3. Total	4,242	3,850	3,383
B. Net Acreage Assigned to Another Party Under a Farm-Out Agreement			
1. Developed	*	*	*
2. Undeveloped	*	*	*
3. Total	*	*	*

*DETAIL 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.