Title
SOURCES OF INFORMATION PARALLEL TO FRS REQUIRED INFORMATION FOR OIL AND GAS COMPANIES

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Edward B. Deakin

June 1979
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SOURCES OF INFORMATION PARALLEL TO FRS REQUIRED INFORMATION FOR OIL AND GAS COMPANIES

Edward B. Deakin

Energy and Environment Division
Lawrence Berkeley Laboratory
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June 25, 1979

This work was carried out by Edward B. Deakin, Associate Professor, Graduate School of Business Administration, University of Texas, Austin, Texas, as part of the Lawrence Berkeley Laboratory Energy Information Validation Project.
# TABLE OF CONTENTS

## I. Executive Summary

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
</tbody>
</table>

## II. Introduction

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

## III. Sources of Information Related to Specific FRS Schedules

<table>
<thead>
<tr>
<th>FRS Form Number</th>
<th>Information</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>5110</td>
<td>Consolidating Statement of Income</td>
<td>API, FTC-LB, SEC 10-K</td>
</tr>
<tr>
<td>5111</td>
<td>Research and Development Funding and Development</td>
<td>FTC-LB, NSF RD-1, SEC 10-K</td>
</tr>
<tr>
<td>5112</td>
<td>Reporting Company Analysis of Income Taxes</td>
<td>SEC 10-K</td>
</tr>
<tr>
<td>5113</td>
<td>Reporting Company Analysis of Income Taxes by Segments</td>
<td>IRS 1120, SEC 10-K</td>
</tr>
<tr>
<td>5114</td>
<td>Reporting Company Analysis of U.S. Federal Deferred Income Taxes</td>
<td>SEC 10-K</td>
</tr>
<tr>
<td>5115</td>
<td>Analysis of Other Tax Benefits</td>
<td>IRS 1120, SEC 10-K</td>
</tr>
<tr>
<td>5120</td>
<td>Consolidating Balance Sheet</td>
<td>BOC MA-100, FTC-LB, SEC 10-K</td>
</tr>
<tr>
<td>5121</td>
<td>Investments &amp; Advances to Unconsolidated Affiliates</td>
<td>SEC 10-K, Skinner</td>
</tr>
<tr>
<td>5122</td>
<td>Joint Venture Participation</td>
<td>Bonner &amp; Moore, IRS 1120, Offshore Oil &amp; Gas Devpt: S.C., OPEC, Petr. Revere OK, Skinner</td>
</tr>
<tr>
<td>5130</td>
<td>Consolidating Statements of Sources and Use of Funds</td>
<td>API, SEC 10-K</td>
</tr>
<tr>
<td>5141</td>
<td>Unconsolidated Affiliates Energy R &amp; D</td>
<td>FEA-F701, P124-M</td>
</tr>
<tr>
<td>5142</td>
<td>Consolidated Joint Ventures Energy R &amp; D</td>
<td>FEA-F701, P124-M</td>
</tr>
<tr>
<td>5210</td>
<td>Consolidating Statement of Income Domestic and Foreign Petroleum Segments</td>
<td>FEA-F701, FTC-LB, SEC 10-K</td>
</tr>
<tr>
<td>5211</td>
<td>General Operating Expenses</td>
<td>Bonner &amp; Moore, 124-M-1, FPC-64, P110, SEC 10-K</td>
</tr>
<tr>
<td>5212</td>
<td>Acquisition of Raw Materials &amp; Refined Products</td>
<td>API, Ark. Oil &amp; Gas, BOC MA-100, FEA F701, P110, 124-M-1, P320 Peru, FPC-64, P-328, FPC-1000 Peru, Petr. Rev OK, SEC 10-K</td>
</tr>
<tr>
<td>5213</td>
<td>Disposition of Raw Materials</td>
<td>API, Ark. Oil &amp; Gas, BOC MA-100, FEA 100A, P124-M, P-320, FPC-64, P-328, BOM</td>
</tr>
<tr>
<td>5214</td>
<td>Disposition of Refined Products</td>
<td>BOC MA-100, EIA-8, EIA-9, P-302, P-306, P-314, P-329, FEO-1000 Peru, Petr. Rev OK, SEC 10-K</td>
</tr>
<tr>
<td>5215</td>
<td>Domestic &amp; Foreign Petroleum Segments Primary Transportation Expenses</td>
<td>API, FEA-F701,FPC-11, OPEC SEC 10-K, Petr. Rev. OK</td>
</tr>
<tr>
<td>5220</td>
<td>Selected Consolidating Balance Sheet</td>
<td>BOC MA-100, FTC-LB, SEC 10-K</td>
</tr>
<tr>
<td>5221</td>
<td>Net Property and Other Capitalized Cost Balances</td>
<td>SEC 10-K</td>
</tr>
<tr>
<td>5222</td>
<td>Changes in Net Property &amp; Other Capitalized Cost Balances</td>
<td>BOC MA-100, SEC 10-K</td>
</tr>
<tr>
<td>5223</td>
<td>Exploration, Development and Production Expenditures Capitalized</td>
<td>API, Bonner &amp; Moore, FPC-2, FPC-64, SEC 10-K</td>
</tr>
<tr>
<td>FRS Form Number</td>
<td>Information</td>
<td>Source</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>5243</td>
<td>Domestic Motor Fuel Marketing Statistics</td>
<td>EIA-8, P-302, P-306, SEC 10-K 162</td>
</tr>
<tr>
<td>5245</td>
<td>Petroleum Purchases, Sales and Exchanges</td>
<td>FEA-F701, P124-M, FEO-903 176</td>
</tr>
</tbody>
</table>

### IV. Appendices

**Appendix A:** Part I - Federal Reports Surveyed
Part II - Non Federal Sources of Comparable Data.

**Appendix B:** Outline of Annual Review - Conservation Committee on California Oil Producers

**Appendix C:** Venezuela Petroleum Reports

**Appendix D:** Sources Used by Subcommittees of the API Committee on Reserves for Actual Annual Crude Oil Production Data -- Table III
I. EXECUTIVE SUMMARY

This report identifies other sources of information which contain data similar to the data on FRS schedules. Included are forms and reports of various Federal departments and agencies, state agency data, reports of trade and industry groups plus various non-U.S. sources.

A list of identified information sources is provided together with a notebook which relates data on FRS schedules to the identified alternate sources.
II. INTRODUCTION

This working paper reports on a survey of sources of information that parallel the information required by the comprehensive financial reporting system for the oil and gas related activities of energy companies (FRS).

Since the objectives of this report are to provide a basis for later external verification of data reported on the FRS, attempts were made to draw information from as many diverse sources as possible. In most cases, though, the original sources for the data are the companies themselves. The data reported to various authorities may be subject to audit or they may not be. In this stage of the research effort, no attempt could be made to assess the extent of audits or other validation techniques that may be employed on these information sources.

The results and classifications in this report must be considered preliminary. The process of comparing FRS data with other sources is likely to be a lengthy one. Obviously, the major efforts in this area should start with the recently obtained submissions of FRS reports by the energy companies. From these it will be possible to determine which data are the most relevant and what classifications of forms are most useful. While we have tried to be comprehensive in our survey, especially in regard to Federal sources, the time available to us was limited and we think it likely that some sources have been overlooked. Users of this report should be aware both of the possibility of omissions and of the fact that sources of information related to FRS are still evolving.
The primary sources of data were: (1) the Federal Government; (2) state governmental statistical reports and periodic surveys; (3) trade and industry publications; and (4) non-U.S. data sources. Each of the primary sources of information tended to specialize in the information that was presumed useful for their activities.

Federal government data sources included:

- **Department of Energy** data on sources of crude oil and natural gas, cost and values at various stages of the exploration to marketing phases of oil company operations;
- **Bureau of Census** data on oil and gas exploration activity, the funds spent in exploration and drilling and information on petroleum refining;
- **Bureau of Mines** data on all phases of domestic and foreign extractive operations including certain downstream operations;
- **Internal Revenue Service** comprehensive (but apparently confidential) data on company operations, joint venture activity, company structure including affiliations and reconciliations of tax and financial data;
- **Securities and Exchange Commission** with recently adopted rules that require extensive company disclosure of reserves, operating and line of business data in public filings on Form 10-K;
- **Department of the Interior, Bureau of Land Management** which handles sales of Federal offshore tracts and maintains production and royalty data on these properties;
- **Federal Trade Commission** required line of business data.

State government agencies are primarily concerned with data on drilling and production activities. Most states with large
producing activities gather data on drilling permits issued, well abandonments and production. Production activity is normally obtained as a part of a state's severance tax administration. Annual reports are often prepared showing production and producing wells by field. Sometimes estimates of reserves, production by company, refinery ownership and production statistics are reported as well. On occasion a state agency may conduct a special survey related to energy needs, supplies or facilities. These reports may contain detailed information not usually found in annual statistical reports.

Trade and industry publications are varied both with respect to the information contained therein and the usefulness of the information. In some cases the publication may merely recite information found in other sources. In other cases, industry associations present independent estimates of statistical or operating data.

Foreign governmental units, trade or related organizations also may publish estimates of company operations within their own boundaries or, in some cases, across boundaries. The information may be useful in relating domestic and foreign activities. In many cases the information from non-U.S. sources may be the only data available on certain activities.

Although not surveyed for this report, another source of information parallel to that required by FRS is individual company annual reports. Annual reports for fiscal years ending after December 25, 1979 are expected to be substantially more informative than in the past because of the new SEC disclosure requirements.
Organization of this Report

The main body of the text is designed to relate various sources of data to the related FRS schedules. For each schedule of FRS, a summary page has been prepared showing the line items and column headings for the schedule. Immediately following the schedule summary are pages describing the alternate sources of information that were located and related to that schedule. A description of the alternate information source, the frame or universe represented, the level of availability and the time frame for the data series are presented with a brief description of the comparable data provided by the alternate source.

For ease of reference, two code numbers are placed in the upper right hand corner of each alternate information sheet. The first number represents the level of aggregation for the available data coded as follows:

1  Company data are available
2  Data by identifiable industry subsets only
3  Industry-wide data only
4  Industry estimates based on sample data
5  States or regions within the U.S.
8  Data for the U.S. as a whole or for other entire nations
9  Worldwide data only
?  Level of disaggregation available to DOE is not made clear in source documents

The second number indicates the degree of comparability between the alternate data source and the data on FRS. These are coded as follows:

1  Data should be the same
2  Data may be a subset or otherwise reconcilable to FRS
3  A similar trend should appear in this data when compared to FRS
The relationship between the data and FRS is uncertain. In all cases, the best match between FRS and the data on the available reports will be used for coding. This coding should be viewed as a first estimation of the data relationship.

Appendix A contains two parts. Part I includes the Federal reports surveyed. Part II contains non-Federal sources of comparable data, including that from states, trade and private organizations, and foreign sources.

Appendix B is the Table of Contents for the Conservation Committee on California Oil Producers showing the variety and comprehensiveness of this group's annual report.

Appendix C is reproduced from the Table of Contents on the Venezuelan Petroleum Ministry's Annual Report. The data cover a broad variety of FRS related items for world operations as well as for Venezuelan operations.

Appendix D is a list of the sources of information used by the American Petroleum Institute and the American Gas Association for their estimates of proved reserves in the United States.
III. Sources of Information Related to Specific FRS Schedules

FRS Form 5110: Consolidating Statement of Income

<table>
<thead>
<tr>
<th>OPERATING REVENUES</th>
<th>OPERATING EXPENSES:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GENERAL OPERATING EXPENSES</td>
</tr>
<tr>
<td></td>
<td>DD&amp;A</td>
</tr>
<tr>
<td></td>
<td>VALUATION CHARGES</td>
</tr>
<tr>
<td></td>
<td>GENERAL &amp; ADMINISTRATIVE</td>
</tr>
<tr>
<td></td>
<td>RESEARCH AND DEVELOPMENT (SCH 5111)</td>
</tr>
<tr>
<td></td>
<td>TOTAL OPERATING EXPENSES</td>
</tr>
<tr>
<td></td>
<td>OPERATING INCOME</td>
</tr>
<tr>
<td>OTHER REVENUE &amp; (EXPENSE):</td>
<td></td>
</tr>
<tr>
<td>EQUITY IN EARNINGS OF UNCONSOLIDATED AFFILIATES</td>
<td></td>
</tr>
<tr>
<td>DIVIDEND INCOME FROM COST BASIS</td>
<td></td>
</tr>
<tr>
<td>UNCONSOLIDATED AFFILIATES</td>
<td></td>
</tr>
<tr>
<td>OTHER DIVIDEND &amp; INTEREST INCOME</td>
<td></td>
</tr>
<tr>
<td>GAIN/(LOSS) ON DISPOSITION OF PP&amp;E</td>
<td></td>
</tr>
<tr>
<td>INTEREST EXPENSE &amp; FINANCIAL CHARGES</td>
<td></td>
</tr>
<tr>
<td>MINORITY INTEREST IN INCOME (NET INCOME TAX)</td>
<td></td>
</tr>
<tr>
<td>FOREIGN CURRENCY TRANSLATION EFFECTS</td>
<td></td>
</tr>
<tr>
<td>OTHER REVENUE &amp; (EXPENSE)</td>
<td></td>
</tr>
<tr>
<td>INCOME TAXES (SCH 5112):</td>
<td></td>
</tr>
<tr>
<td>CURRENT</td>
<td></td>
</tr>
<tr>
<td>DEFERRED</td>
<td></td>
</tr>
<tr>
<td>TOTAL INCOME TAX</td>
<td></td>
</tr>
<tr>
<td>TOTAL OTHER REVENUE &amp; (EXPENSE)</td>
<td></td>
</tr>
<tr>
<td>INCOME BEFORE LINES 22.00 &amp; 23.00</td>
<td></td>
</tr>
<tr>
<td>EXTRAORDINARY ITEMS</td>
<td></td>
</tr>
<tr>
<td>CUMULATIVE EFFECT OF ACCOUNTING CHANGES</td>
<td></td>
</tr>
<tr>
<td>NET INCOME</td>
<td></td>
</tr>
</tbody>
</table>

Columns: By major energy source
API

Availability: 2
Comparability: 1

Basic Petroleum Data Book
Section V Financial

Frame: Total data for countries and for some specific regions - e.g. offshore
Available: Industry subsets
Time Frame: Series data back to 1947 in the 1977 edition

Comparable Data

Domestic and foreign net income for the chosen sample of companies.
FTC-LB

Availability: ?
Comparability: 1

Line of Business Form
Schedule IV (A)

Frame: Largest corporations
Available: FTC confidential
Time Frame: Since 1973

Comparable Data

Operating revenues and expenses in line items similar to FRS 5110 and subdivided by lines of business as specified in FTC-LB instructions. Petroleum exploration and development would be one line of business. Petroleum refining/marketing is another line.
FRS From 5110 cont.

SEC Form 10-K (Required) Availability: 1
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling
        securities in excess of $1,000,000 in interstate
        commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optional disc-
           losures go back a number of years

Comparable Data

Operating revenues and expenses in categories similar to those on
FRS 5110 are reported on SEC Form 10-K. Specific disclosures of items
such as research and development or foreign currency translation effects
are not necessarily included on Form 10-K.

Form 10-K requires reporting for total company and certain line
of business disclosures. The line of business categories on 10-K may
not be the same as those on FRS. For example, a company may elect
"Energy" as a line of business thus providing no breakdown by energy
type. Practices vary across companies.
FRS Form 5111: Research & Development Funding and Expenditures

<table>
<thead>
<tr>
<th>SOURCE OF R&amp;D FUNDS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEDERAL GOVERNMENT</td>
</tr>
<tr>
<td>INternal COMPANY</td>
</tr>
<tr>
<td>OTHER SOURCES</td>
</tr>
<tr>
<td>TOTAL SOURCES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>R&amp;D EXPENDITURES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC RESEARCH:</td>
</tr>
<tr>
<td>IN-HOUSE</td>
</tr>
<tr>
<td>CONTRACTED OUT</td>
</tr>
<tr>
<td>APPLIED RESEARCH:</td>
</tr>
<tr>
<td>IN-HOUSE</td>
</tr>
<tr>
<td>CONTRACTED OUT</td>
</tr>
<tr>
<td>DEVELOPMENT:</td>
</tr>
<tr>
<td>IN-HOUSE</td>
</tr>
<tr>
<td>CONTRACTED OUT</td>
</tr>
<tr>
<td>CAPITALIZED EXPENDITURES</td>
</tr>
<tr>
<td>TOTAL R&amp;D EXPENDITURES</td>
</tr>
</tbody>
</table>

| R&D EXPENSE:                    |
| TOTAL R&D EXPENDITURES (LINE 12.00) |
| LESS: CAPITALIZED ITEMS (LINE 11.00) |
| LESS: AMTS. PAID FOR BY OTHERS (NOT INCLUDED IN TOTAL SOURCES LINE 04.00) |
| TOTAL R&D EXPENSE, EXCLUDING DD&A (SCH 5110, LINE 06.00, COL A)                  |
| PLUS DD&A                        |
| TOTAL                            |

Columns: By type of energy, with breakdowns of petroleum and coal.
FRS Form 5111 cont.

FTC-LB

Availability: ?

Comparability: 1

Line of Business Form
Schedule III (C)

Frame: Largest corporations
Available: FTC confidential
Time Frame: Since 1973

Comparable Data

Applied research and development costs separated between federal
government billings and other sources further subdivided by FTC de-
fining lines of business.
Survey of Industrial Research and Development

Frame: All manufacturing companies in SIC Codes 497391, 7392, 7399 and 8911 with 1,000 or more employees
Available: Confidential - Bureau of Census
Time Frame: From 1977

Comparable Data

Sources of R & D Funds

R & D expenditures for Applied or Basic research and by major product groups. Also R & D expenditures on energy by energy source. Data should be similar to sources and uses of R & D funds on FRS 5111, but would be based on Bureau of Census aggregations of companies.
SEC Form 10-K (Optional)  
Availability: 1  
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25-79; optional disclosures go back a number of years

Comparable Data

Research and development outlays are often disclosed in total. Sometimes there are disclosures by lines of business but reporting practice varies widely.
<table>
<thead>
<tr>
<th>INCOME TAXES (AS PER FINANCIAL STATEMENTS):</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRENT PAID OR ACCRUED:</td>
</tr>
<tr>
<td><strong>U.S. FEDERAL, BEFORE INVESTMENT TAX CREDIT</strong></td>
</tr>
<tr>
<td><strong>U.S. FEDERAL INVESTMENT TAX CREDIT</strong></td>
</tr>
<tr>
<td><strong>U.S. STATE &amp; LOCAL INCOME TAXES</strong></td>
</tr>
<tr>
<td>FOREIGN INCOME TAXES:</td>
</tr>
<tr>
<td>CANADA</td>
</tr>
<tr>
<td>OECD EUROPE</td>
</tr>
<tr>
<td>AFRICA</td>
</tr>
<tr>
<td>MIDDLE EAST</td>
</tr>
<tr>
<td>OTHER EASTERN HEMISPHERE</td>
</tr>
<tr>
<td>OTHER WESTERN HEMISPHERE</td>
</tr>
<tr>
<td>TOTAL FOREIGN</td>
</tr>
<tr>
<td>TOTAL CURRENT</td>
</tr>
<tr>
<td>DEFERRED:</td>
</tr>
<tr>
<td><strong>U.S. FEDERAL, BEFORE INVESTMENT TAX CREDIT</strong></td>
</tr>
<tr>
<td><strong>U.S. FEDERAL INVESTMENT TAX CREDIT</strong></td>
</tr>
<tr>
<td><strong>U.S. STATE &amp; LOCAL INCOME TAXES</strong></td>
</tr>
<tr>
<td>FOREIGN</td>
</tr>
<tr>
<td>TOTAL DEFERRED</td>
</tr>
<tr>
<td>TOTAL INCOME TAX EXPENSE</td>
</tr>
</tbody>
</table>

**RECONCILIATION OF ACCRUED U.S. FEDERAL INCOME TAX EXPENSE TO STATUTORY RATE:**

CONSOLIDATED PRETAX INCOME/(LOSS)

LESS: FOREIGN SOURCE INCOME NOT SUBJECT TO U.S. TAX

EQUALS: INCOME SUBJECT TO U.S. TAX

LESS: U.S. STATE & LOCAL INCOME TAXES

LESS: APPLICABLE FOREIGN INCOME TAXES DEDUCTED

EQUALS: PRE-TAX INCOME SUBJECT TO U.S. TAX

ENTER HERE THE COMPUTED 'EXPECTED' TAX PROVISION BASED ON LINE 23.00

INCREASE/(DECREASE) IN TAXES DUE TO:

FOREIGN TAX CREDITS RECOGNIZED

U.S. FEDERAL INVESTMENT TAX CREDIT RECOGNIZED

STATUTORY DEPLETION

OTHER

ACTUAL U.S. FEDERAL TAX PROVISION/(REFUND)

Columns: Total company only.
FRS Form 5112 cont.

SEC Form 10-K (Required)  
Availability: 1  
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce  
Available: By company  
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Under current reporting rules, companies are required to disclose a reconciliation of income taxes to the statutory rate. Moreover, income taxes must be disclosed as current or deferred. However, breakdowns by taxing authority appear at the option of the company. Reports of foreign income taxes by country or region are not usually provided.
FRS Form 5113: Reporting Company Analysis of Income Taxes by Segments

CURRENT TAX DETAIL BY SEGMENTS:

DEFERRED TAX DETAIL BY SEGMENTS:

<table>
<thead>
<tr>
<th>Segment</th>
<th>Foreign Segment</th>
<th>Domestic Segment</th>
<th>Nontraceable</th>
<th>Eliminations</th>
<th>Consolidated</th>
</tr>
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<tbody>
<tr>
<td>Non-Energy Industries (Consolidated)</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Other Energy:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nuclear:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coal:</td>
<td></td>
<td></td>
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<tr>
<td>Petroleum:</td>
<td></td>
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<tr>
<td>Foreign Petroleum:</td>
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<tr>
<td>Domestic Petroleum:</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Domestic &amp; Foreign Petroleum:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Consolidated Company:</td>
<td></td>
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</tr>
</tbody>
</table>

Columns: By Federal (current and deferred), state and local, and foreign
FRS Form 5113 cont.

IRS-1120

Availability: ?
Comparability: 1

U.S. Corporation Tax Returns

Frame: All taxpayers or entities with minimal gross revenues
Available: IRS confidential
Time Frame: Since early 1900's

Comparable Data

Sources of tax benefits, particularly investment tax credits and currently payable taxes are reported in detail on IRS-1120. Credits for foreign taxes should provide a tie-in with foreign tax data. State and local taxes are allowable deductions from Federal taxes and should also be available.

No deferred taxes would be reported except as a reconciliation item.

The extent to which segment detail would be available is not known.
FRO Form 5113 cont.

SEC Form 10-K (Required) 

Availability: 1
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce

Available: By company

Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Aggregate taxes (whether deferred or current) are reported. Investment tax credit is reported. Federal, state and local, and foreign current and deferred taxes are usually reported. However, subdivisions by lines of business are generally not provided.
FRS Form 5114: Reporting Company Analysis of U.S. Federal Deferred Income Taxes

<table>
<thead>
<tr>
<th>NON-ENERGY INDUSTRIES (CONSOLIDATED)</th>
<th>PETROLEUM:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTHER ENERGY:</td>
<td></td>
</tr>
<tr>
<td>FOREIGN SEGMENT</td>
<td>FOREIGN PETROLEUM:</td>
</tr>
<tr>
<td>DOMESTIC SEGMENT</td>
<td>INTERNATIONAL MARINE SEGMENT</td>
</tr>
<tr>
<td>NONTRACEABLE</td>
<td>FOREIGN REFINING/MARKETING SEGMENT</td>
</tr>
<tr>
<td>ELIMINATIONS</td>
<td>FOREIGN PRODUCTION SEGMENT</td>
</tr>
<tr>
<td>CONSOLIDATED</td>
<td>NONTRACEABLE</td>
</tr>
<tr>
<td></td>
<td>ELIMINATIONS</td>
</tr>
<tr>
<td></td>
<td>CONSOLIDATED</td>
</tr>
<tr>
<td>NUCLEAR:</td>
<td>DOMESTIC PETROLEUM:</td>
</tr>
<tr>
<td>FOREIGN SEGMENT</td>
<td>FEDERALLY REGULATED</td>
</tr>
<tr>
<td>DOMESTIC SEGMENT</td>
<td>RINED PRODUCT PIPELINE SEGMENT</td>
</tr>
<tr>
<td>NONTRACEABLE</td>
<td>FEDERALLY REGULATED</td>
</tr>
<tr>
<td>ELIMINATIONS</td>
<td>NATURAL GAS PIPELINE SEGMENT</td>
</tr>
<tr>
<td>CONSOLIDATED</td>
<td>FEDERALLY REGULATED</td>
</tr>
<tr>
<td></td>
<td>CRUDE &amp; LIQUID PIPELINE SEGMENT</td>
</tr>
<tr>
<td></td>
<td>DOMESTIC REFINING/MARKETING SEGMENT</td>
</tr>
<tr>
<td></td>
<td>DOMESTIC PRODUCTION SEGMENT</td>
</tr>
<tr>
<td></td>
<td>NONTRACEABLE</td>
</tr>
<tr>
<td></td>
<td>ELIMINATIONS</td>
</tr>
<tr>
<td></td>
<td>CONSOLIDATED</td>
</tr>
<tr>
<td></td>
<td>DOMESTIC &amp; FOREIGN PETROLEUM:</td>
</tr>
<tr>
<td></td>
<td>NONTRACEABLE</td>
</tr>
<tr>
<td></td>
<td>ELIMINATIONS</td>
</tr>
<tr>
<td></td>
<td>CONSOLIDATED</td>
</tr>
<tr>
<td></td>
<td>CONSOLIDATED COMPANY:</td>
</tr>
<tr>
<td></td>
<td>NONTRACEABLE</td>
</tr>
<tr>
<td></td>
<td>ELIMINATIONS</td>
</tr>
<tr>
<td></td>
<td>CONSOLIDATED</td>
</tr>
</tbody>
</table>

Columns: Sources of deferral: accelerated depreciation, exploration and development, production payments, loss reserves and other.
FRS Form 5114 cont.

SEC Form 10-K (Required)

Availability: 1
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Reconciliation between currently payable taxes and reported tax expense is required on Form 10-K for total company operations. Breakdowns by lines of business are usually not provided.
## Analysis of Other Tax Benefits

### Non-Energy Industries (Consolidated)

### Other Energy

#### Foreign Segment

#### Domestic Segment

#### Nontraceable

#### Eliminations

#### Consolidated

### Nuclear

#### Foreign Segment

#### Domestic Segment

#### Nontraceable

#### Eliminations

#### Consolidated

### Coal

#### Foreign Segment

#### Domestic Segment

#### Nontraceable

#### Eliminations

#### Consolidated

### Petroleum

#### Foreign Petroleum

- International Marine Segment
- Foreign Refining/Marketing Segment
- Foreign Production Segment

#### Domestic Petroleum

- Federally Regulated Refined Product Pipeline Segment
- Federally Regulated Natural Gas Pipeline Segment
- Federally Regulated Crude & Liquid Pipeline Segment

#### Domestic & Foreign Petroleum

- Nontraceable

#### Eliminations

#### Consolidated

### Consolidated Company

- Nontraceable

- Eliminations

- Consolidated

---

**Columns:** Tax credits and excess statutory depletion

22
FRS Form 5115 cont.

IRS-1120

Availability: ?
Comparability: 1

U.S. Corporation Tax Returns

Frame: All taxpayers or entities with minimal gross revenues
Available: IRS confidential
Time Frame: Since early 1900's

Comparable Data

U.S.-reported depletion in excess of cost and investment tax credits should be traceable to the assets which gave rise to these tax benefits. Source of benefit by segment should, therefore, be obtainable.

Some question may arise in tax allocations to segments where a specific segment does not have sufficient income to cover the tax benefits arising from the segment.
FRS Form 5115 cont.

SEC Form 10-K (Required)

Availability: 1

Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce

Available: By company

Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Reconciliation between currently payable taxes, investment tax credits, and depletion in excess of cost is normally reported for the company as a whole. Subdivisions by product line are normally not provided.
FRS Form 5120: Consolidating Balance Sheet

<table>
<thead>
<tr>
<th>Current Assets:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash &amp; Marketable Securities</td>
<td></td>
</tr>
<tr>
<td>Trade Accounts and Notes Receivable</td>
<td></td>
</tr>
<tr>
<td>Inventories:</td>
<td></td>
</tr>
<tr>
<td>Raw Materials &amp; Products</td>
<td></td>
</tr>
<tr>
<td>Materials &amp; Supplies</td>
<td></td>
</tr>
<tr>
<td>Other Current Assets</td>
<td></td>
</tr>
<tr>
<td>Total Current Assets</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-Current Assets:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Property, Plant &amp; Equipment:</td>
<td></td>
</tr>
<tr>
<td>Gross</td>
<td></td>
</tr>
<tr>
<td>Accumulated DD&amp;A</td>
<td></td>
</tr>
<tr>
<td>Net</td>
<td></td>
</tr>
<tr>
<td>Investment &amp; Advances to Unconsolidated Affiliates (SCH 5121)</td>
<td></td>
</tr>
<tr>
<td>Other Non-Current Assets</td>
<td></td>
</tr>
<tr>
<td>Total Non-Current Assets</td>
<td></td>
</tr>
<tr>
<td>Total Assets</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current Liabilities:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Accounts &amp; Notes Payable</td>
<td></td>
</tr>
<tr>
<td>Other Current Liabilities</td>
<td></td>
</tr>
<tr>
<td>Long Term Debt</td>
<td></td>
</tr>
<tr>
<td>Deferred Income Tax Credits</td>
<td></td>
</tr>
<tr>
<td>Other Deferred Credits</td>
<td></td>
</tr>
<tr>
<td>Other Long Term Items</td>
<td></td>
</tr>
<tr>
<td>Minority Interest in Consolidated Affiliates</td>
<td></td>
</tr>
<tr>
<td>Total of Lines 14.00 through 20.00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stockholder's Equity:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Retained Earnings</td>
<td></td>
</tr>
<tr>
<td>Other Equity</td>
<td></td>
</tr>
<tr>
<td>Total Stockholder's Equity</td>
<td></td>
</tr>
<tr>
<td>Total of Lines 21.00 and 24.00</td>
<td></td>
</tr>
</tbody>
</table>

Columns: By energy segment
FRS Form 5120 cont.

BOC MA-100

Availability: 2
Comparability: 1

Annual Survey of Manufacturers

Frame: All manufacturers (petroleum and coal industry)
Available: Public reports by industry
Purchasable reports by industry subsets of no fewer than four companies

Comparable Data

Inventories and original cost of depreciable properties are required.
FRS Form 5120 cont.

FTC-LB

Availability: ?
Comparability: 1

**Line of Business Form**

**Schedule III (B)**

Frame: Largest corporations
Available: FTC confidential
Time Frame: Since 1973

**Comparable Data**

Property, plant and equipment together with related D. D. & A., inventories and total assets are reported by FTC-defined lines of business.
FRS Form 5120 cont.

SEC Form 10-K (Required)  
Availability: 1  
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce  
Available: By company  
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Balance sheet data in categories similar to the line items on FRS 5120 are reported on SEC Form 10-K for the consolidated company. Certain data are reported by line of business (e.g. property, plant and equipment), but most of the line items are not. Moreover, the lines of business reported on Form 10-K may be different from company to company and from those reported on FRS 5120.
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FRS Form 5121: Investments and Advances to Unconsolidated Affiliates

Rows: Names of affiliates

Columns:

<table>
<thead>
<tr>
<th>CODE</th>
<th>BUSINESS/</th>
<th>PERCENT</th>
<th>CONSOL</th>
<th>INVESTMENTS &amp; ADVANCES (BEG BAL)</th>
<th>EQUITY METHOD DIVIDENDS</th>
<th>NEW INVESTMENT &amp; REPAYMENT OF ADVANCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>GEOGRAPHIC CODE</td>
<td>OWNED</td>
<td>METHOD</td>
<td>(END BAL)</td>
<td>EARNINGS</td>
<td>DIVIDENDS</td>
</tr>
<tr>
<td>B</td>
<td>I</td>
<td>J</td>
<td>K</td>
<td>L</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>
FRS Form 5121 cont.

SEC Form 10-K

Availability: 1
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optical disclosures go back a number of years

Comparable Data

Listings of material unconsolidated affiliates are required on Form 10-K when the company has an equity interest in the affiliate. Data on financial aspects of the affiliate are reported separately on occasion, but in general such data are not included.
FRS Form 5121 cont.

Availability: 1
Comparability: 1

Walter Skinner's Yearbook

Frame: World Survey
Available: Varies - some data by company
Time Frame: Since pre-1970

Comparable Data

Names of companies and principal subsidiaries operating in every foreign country.

Names of companies and their major subsidiaries, affiliates and principal owners. Identifies nature of business and locations of operations.

North Sea license holders including joint venture membership.
Schedule A.3.b
FRS Form 5122: Joint Venture Participation

Rows: Names of joint venture participants
Columns:

<table>
<thead>
<tr>
<th>CODE</th>
<th>BUSINESS/GEO CODE</th>
<th>PERCENT PART</th>
<th>CONSOL METHOD CODE</th>
<th>YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
</tr>
</tbody>
</table>

REPORTING COMPANY ACCOUNTS

<table>
<thead>
<tr>
<th>CAPITALIZED EXPENDITURES</th>
<th>EXPENSED EXPENDITURES</th>
<th>REVENUES</th>
<th>ACCUMULATED DD&amp;A</th>
<th>GROSS INVESTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>G</td>
<td>H</td>
<td>I</td>
<td>J</td>
</tr>
</tbody>
</table>

32
FRS Form 5122 cont.

Bid Reports - Bonner & Moore

Frame: All companies participating in Federal offshore bidding
Available: By company
Time Frame: Since 1971

Comparable Data

Lists all joint venture combines bidding on offshore leases.
Shows combine members, ownership interest, bids made and bids won.
U.S. Corporation Tax Return

Frame: All taxpayers or other entities meeting minimum gross revenue requirements
Available: IRS confidential
Time Frame: Since early 1900's

Comparable Data

Joint ventures or other operations which are defined as "controlled" operations must report the names and taxpayer identification numbers of their owners together with the income attributable to each of the owners. Joint venturer returns would also include revenues, expenses, tax D. D. & A., and business code.
Availability: 1
Comparability: 1

Offshore Oil and Gas Development:
Southern California

Frame: Exploration, production, transportation and related operations of companies operating in California.
Available: Extensive details of company operations
Time Frame: Produced for 1977

Comparable Data

Santa Barbara channel leases and estimated reserves.
Existing petroleum and related facilities in Southern California including refineries, onshore treatment and separation facilities, marine terminals, harbors and platforms. Data include capacities, operator name, ownership interests if co-owned and similar information.
Profiles on operators gives information on various companies' participation in offshore tracts, assets of companies employed in California operations, joint ownership arrangements.
FRS Form 5122 cont.

Availability: 1
Comparability: 3 to 1

OPEC Annual Review and Record

Frame: Survey of worldwide petroleum activities
Available: Subdivided by country (in some cases)
Time Frame: Since before 1970

Comparable Data

Tanker rates and estimates of worldwide tanker capacity.
Changes in ownership of foreign oil company joint ventures.
Discoveries, drilling activities, concession agreements and similar events for each member, country and the affected U.S. petroleum company.
FRS Form 5122 cont.

Availability: 1
Comparability: 1

Petroleum Review - Oklahoma

Frame: Various - covers Oklahoma operations. Conducts surveys on various activities
Available: Data usually presented on company activities
Time Frame: Depends on topic

Comparable Data

November 1978 - Comprehensive survey of inland pipelines, Includes ownership, capacity, product, length and similar data.

October 1978 and monthly - North Sea platforms data: ownership, status
Walter Skinner's Yearbook

Frame: World survey
Available: Varies - some data by company
Time Frame: Since pre-1970

Comparable Data

Names of companies and principal subsidiaries operating in every foreign country.
Names of companies and their major subsidiaries affiliates and principal owners. Identifies nature of business and locations of operations.
North Sea license holders including joint venture membership.
Schedule A.4  
FRS Form 5130: Consolidating Statement of Sources and Uses of Funds

<table>
<thead>
<tr>
<th>SOURCES OF FUNDS: FUNDSD PROVIDED BY OPERATIONS:</th>
<th>USES OF FUNDS: ADDITIONS TO PROPERTY, PLANT &amp; EQUIPMENT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>NET INCOME ..................................................</td>
<td>PETROLEUM: PRODUCTION SEGMENT (SCH 5223):</td>
</tr>
<tr>
<td>MINORITY INTEREST IN INCOME .........................</td>
<td>EXPLORATION ................................................................</td>
</tr>
<tr>
<td>DD&amp;A ....................................................................</td>
<td>DEVELOPMENT ................................................................</td>
</tr>
<tr>
<td>VALUATION CHARGES ..........................................</td>
<td>PRODUCTION ................................................................</td>
</tr>
<tr>
<td>DEFERRED INCOME TAXES ....................................</td>
<td>SUPPORT EQUIPMENT &amp; FACILITIES ................................</td>
</tr>
<tr>
<td>RECOGNIZED UNDISTRIBUTED (EARNINGS)/LOSSES OF UNCONSOLIDATED AFFILIATES</td>
<td>REFINING/MARKETING SEGMENT:</td>
</tr>
<tr>
<td>OTHER FUNDS PROVIDED ......................................</td>
<td>REFINING (SCH 5222) ...............................................</td>
</tr>
<tr>
<td>TOTAL FUNDS FROM OPERATIONS ............................</td>
<td>MARKETING (SCH 5222) ...............................................</td>
</tr>
<tr>
<td>DISPOSITION OF PROPERTY, PLANT &amp; EQUIPMENT .......</td>
<td>TRANSPORTATION:</td>
</tr>
<tr>
<td>PROCEEDS FROM: ...............................................</td>
<td>PIPELINE ..................................................................</td>
</tr>
<tr>
<td>LONG TERM DEBT ................................................</td>
<td>MARINE .....................................................................</td>
</tr>
<tr>
<td>EQUITY SECURITIES OFFERINGS ............................</td>
<td>OTHER ......................................................................</td>
</tr>
<tr>
<td>OTHER SOURCES OF FUNDS ....................................</td>
<td>TOTAL TRANSPORTATION (SCH 5222) ...............................</td>
</tr>
<tr>
<td>TOTAL SOURCES OF FUNDS .....................................</td>
<td>TRANSPORTATION SEGMENT (SCH 5222):</td>
</tr>
<tr>
<td>........................................................................</td>
<td>FEDERALLY REGULATED PIPELINES:</td>
</tr>
<tr>
<td>........................................................................</td>
<td>CRUDE/LIQUID ................................................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>NATURAL GAS ............................................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>REFINED PRODUCT .......................................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>INTERNATIONAL MARINE ................................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>TOTAL PETROLEUM .......................................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>COAL (SCH 5320) ........................................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>NUCLEAR (SCH 5420) ....................................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>OTHER ENERGY (SCH 5520) .............................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>NON-ENERGY INDUSTRIES (SCH 5620):</td>
</tr>
<tr>
<td>........................................................................</td>
<td>CHEMICAL INDUSTRY .....................................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>OTHER INDUSTRIES ......................................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>NON-TRACEABLE ASSETS ................................................</td>
</tr>
<tr>
<td>........................................................................</td>
<td>TOTAL ........................................................................</td>
</tr>
<tr>
<td>INVESTMENT &amp; ADVANCES TO UNCONSOLIDATED AFFILIATES:</td>
<td>INVESTMENT IN OTHER NON-CURRENT ASSETS</td>
</tr>
<tr>
<td>PETROLEUM .......................................................</td>
<td>DIVIDENDS TO SHAREHOLDERS ......................................</td>
</tr>
<tr>
<td>COAL .....................................................................</td>
<td>REDUCTION IN LONG TERM DEBT .......................................</td>
</tr>
<tr>
<td>NUCLEAR .............................................................</td>
<td>OTHER USES OF FUNDS ..................................................</td>
</tr>
<tr>
<td>OTHER ENERGY .....................................................</td>
<td>TOTAL USES OF FUNDS ...................................................</td>
</tr>
<tr>
<td>NON-ENERGY INDUSTRIES ......................................</td>
<td>INCREASE/(DECREASE) IN WORKING CAPITAL .....................</td>
</tr>
<tr>
<td>NON-TRACEABLE ..................................................</td>
<td>........................................................................</td>
</tr>
<tr>
<td>TOTAL ..................................................................</td>
<td>........................................................................</td>
</tr>
</tbody>
</table>

Columns: Sources: Total only  
Uses: Geographic breakdowns

39
FRS Form 5130 cont.

API

Availability: 2
Comparability: 1

Basic Petroleum Data Book
Section V Financial

Frame: Total data for countries and for some specific regions - e.g. offshore
Available: Industry subsets
Time Frame: Series data back to 1917 in the 1977 edition

Comparable Data

Sources of funds for the companies included in the Chase Manhattan sample.

Sources and uses of capital by the same group of companies.
FRS From 5130 cont.

SEC Form 10-K (Required)  
Availability: 1  
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce  
Available: By company  
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

A statement with line items similar to those on FRS 5130 is required, although subdivisions by segment are generally not reported. Breakdowns by geographic area are rarely, if ever, reported.
### PETROLEUM EXPLORATION, DEVELOPMENT, & PRODUCTION:

#### NET NUMBER OF WELLS COMPLETED:
- **Oil**
- **Gas**
- **Dry**

#### NET WORKING INTEREST PRODUCTION:
- **Crude & Condensate (MB)**
- **Natural Gas (MMCF)**
- **Natural Gas Liquids (MB)**

#### NET PROVED RESERVES (END OF PERIOD):
- **Crude & Condensate (MB)**
- **Natural Gas (MMCF)**
- **Natural Gas Liquids (MB)**

### PETROLEUM REFINING/MARKETING:

#### NUMBER OF REFINERIES

#### CAPACITY (MBD)

#### RUNS TO STILLS (MBD)

### PETROLEUM SHIPMENTS:

**Raw Material From Reporting Company:**
- **Crude & Condensate (MB)**
- **Natural Gas (MMCF)**
- **Plant Products (MB)**

**Raw Material To Reporting Company:**
- **Crude & Condensate (MB)**
- **Natural Gas (MMCF)**
- **Plant Products (MB)**

**Refined Products From Reporting Company (MB)**

**Refined Products To Reporting Company (MB)**

### COAL:
- **Reserves (M Tons)**
- **Production (M Tons)**

### NUCLEAR:
- **Reserves (M LBS)**
- **Mined Production Of Yellowcake (M LBS)**
- **Sales Of Processed Ore (M LBS)**

### MARINE TRANSPORTATION:
- **Number Of Tankers (Own, Lease, Charter)**
- **Capacity (MDWT)**

### PIPELINES:
- **Crude/Liquid Shipments (MB):**
  - For Reporting Company's Account
  - For Other Co-Owners
  - For Third Parties
  - Total

- **Natural Gas Shipments (MMCF):**
  - For Reporting Company's Account
  - For Other Co-Owners
  - For Third Parties
  - Total

- **Refined Product Shipments (MB):**
  - For Reporting Company's Account
  - For Other Co-Owners
  - For Third Parties
  - Total

### ENERGY RESEARCH & DEVELOPMENT:
- **Expenditures**
- **Predominant Type Code (See Instructions)**

**Columns:** Percent ownership, operating statistics
Transfer Pricing Report

Schedules C and (D): Imported Crude Obtained Through Exchanges (and Purchases)

Frame: Refiners importing 500,000 bbls crude/month or importing any quantity through an affiliated entity
Available: FEA Confidential
Time Frame: 1977-

Comparable Data

Identifies shipments of crude by tanker. Activity might be traceable to tankers owned by unconsolidated affiliates to confirm information on FRS 5141.
Domestic Crude Oil Purchasers Report
Schedules C & D

Universe: 250 crude oil purchasers
Available: By company

Comparable Data

Crude oil purchases by tier in both dollars and quantities by producer/operator. If producer/operators are unconsolidated affiliates it should be possible to trace reported production of an unconsolidated affiliate on FRS 5141 to reported purchases on FEA-P124-M. Reconciliation may be required for sales to third parties.
<table>
<thead>
<tr>
<th>JOINT VENTURE (FROM SCHEDULE 5122)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NAMES OF CO-VENTURERS (10% OR MORE)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PETROLEUM EXPLORATION, DEVELOPMENT, &amp; PRODUCTION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>NET NUMBER OF WELLS COMPLETED:</td>
</tr>
<tr>
<td>- OIL</td>
</tr>
<tr>
<td>- GAS</td>
</tr>
<tr>
<td>- DRY</td>
</tr>
</tbody>
</table>

| NET WORKING INTEREST PRODUCTION:                 |
| - CRUDE & CONDENSATE (MB)                        |
| - NATURAL GAS (MMCF)                             |
| - NATURAL GAS LIQUIDS (MB)                       |

| NET PROVED RESERVES (END OF PERIOD):             |
| - CRUDE & CONDENSATE (MB)                        |
| - NATURAL GAS (MMCF)                             |
| - NATURAL GAS LIQUIDS (MB)                       |

<table>
<thead>
<tr>
<th>PETROLEUM REFINING/MARKETING:</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUMBER OF REFINERIES</td>
</tr>
<tr>
<td>CAPACITY (MBD)</td>
</tr>
<tr>
<td>RUNS TO STILLS (MBD)</td>
</tr>
</tbody>
</table>

| PETROLEUM SHIPMENTS:                             |
| RAW MATERIAL FROM REPORTING COMPANY:             |
| - CRUDE & CONDENSATE (MB)                        |
| - NATURAL GAS (MMCF)                             |
| - PLANT PRODUCTS (MB)                            |
| RAW MATERIAL TO REPORTING COMPANY:               |
| - CRUDE & CONDENSATE (MB)                        |
| - NATURAL GAS (MMCF)                             |
| - PLANT PRODUCTS (MB)                            |
| Refined products from reporting company (MB)     |
| Refined products to reporting company (MB)       |

| COAL:                                            |
| - RESERVES (M TONS)                              |
| - PRODUCTION (M TONS)                            |

| NUCLEAR:                                         |
| - RESERVES (M TONS)                              |
| - MINED PRODUCTION OF YELLOWCAKE (M TONS)        |
| - SALES OF PROCESSED ORE (M TONS)                |

| MARINE TRANSPORTATION:                           |
| NUMBER OF TANKERS (OWN, LEASE, CHARTER)          |
| CAPACITY (MDWT)                                  |

| PIPELINES:                                       |
| CRUDE/LIQUID SHIPMENTS (MB):                     |
| - FOR REPORTING COMPANY'S ACCOUNT                 |
| - FOR OTHER CO-VENTURERS                         |
| - FOR THIRD PARTIES                              |
| - TOTAL                                         |

| NATURAL GAS SHIPMENTS (MMCF):                    |
| - FOR REPORTING COMPANY'S ACCOUNT                 |
| - FOR OTHER CO-VENTURERS                         |
| - FOR THIRD PARTIES                              |
| - TOTAL                                         |

| Refined product shipments (MB):                  |
| - FOR REPORTING COMPANY'S ACCOUNT                 |
| - FOR OTHER CO-VENTURERS                         |
| - FOR THIRD PARTIES                              |
| - TOTAL                                         |

| ENERGY RESEARCH & DEVELOPMENT:                   |
| EXPENDITURES                                     |
| PREDOMINANT TYPE CODE (SEE INSTRUCTIONS)         |

Columns: Percent owned, Operating statistics
FRS Form 5142 cont.

FEA-F701

Transfer Pricing Report

Schedules C and (D): Imported Crude Obtained Through Exchanges (and Purchases)

Frame: Refiners importing 500,000 bbls crude/month or importing any quantity through an affiliated entity
Available: FEA Confidential
Time Frame: 1977-

Comparable Data

Identifies shipments of crude by tanker. Activity might be traceable to tankers owned by consolidated joint ventures to confirm data on FRS 5142.
FRS Form 5142 cont.

FEA-P124-M

Availability: 1
Comparability: 2

Domestic Crude Oil Purchasers Report
Schedules C & D

Universe: 250 crude oil purchasers
Available: By company

Comparable Data

Crude oil purchases by tier in both dollars and quantities by producer/operator. If producer/operators are consolidated joint ventures it should be possible to trace reported production on FRS 5142 to reported purchases on FEA P124-M. Reconciliation may be required to account for sales to third parties and for shares of other joint interest owners.
### Schedule B.2

**FRS Form 5210: Consolidating Statement of Income**

**Domestic and Foreign Petroleum Segments**

<table>
<thead>
<tr>
<th>OPERATING REVENUES:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RAW MATERIALS</td>
<td></td>
</tr>
<tr>
<td>(SCH 5213, LINES 09.00, 17.00, 31.00 &amp; 37.00)</td>
<td></td>
</tr>
<tr>
<td>Refined Products (SCH 5214, LINES 20.00 &amp; 27.00)</td>
<td></td>
</tr>
<tr>
<td>TRANSPORTATION</td>
<td></td>
</tr>
<tr>
<td>MANAGEMENT FEES AND PROCESSING REVENUES</td>
<td></td>
</tr>
<tr>
<td>Royalty Income <em>(not used)</em></td>
<td></td>
</tr>
<tr>
<td>CONSUMER EXCISE TAXES:</td>
<td></td>
</tr>
<tr>
<td>Collection</td>
<td></td>
</tr>
<tr>
<td>Deduction (if excluded from Line 10.00)</td>
<td></td>
</tr>
<tr>
<td>OTHER</td>
<td></td>
</tr>
<tr>
<td>TOTAL OPERATING REVENUES</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OPERATING EXPENSES:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL OPERATING EXPENSES (SCH 5211)</td>
<td></td>
</tr>
<tr>
<td>DD&amp;A (SCH 5222)</td>
<td></td>
</tr>
<tr>
<td>VALUATION CHARGES (SCH 5222)</td>
<td></td>
</tr>
<tr>
<td>GENERAL &amp; ADMINISTRATIVE</td>
<td></td>
</tr>
<tr>
<td>RESEARCH &amp; DEVELOPMENT</td>
<td></td>
</tr>
<tr>
<td>TOTAL OPERATING EXPENSES</td>
<td></td>
</tr>
<tr>
<td>OPERATING INCOME</td>
<td></td>
</tr>
</tbody>
</table>

| OTHER REVENUE & (EXPENSE): |  |
| EQUITY IN EARNINGS OF UNCONSOLIDATED AFFILIATES |  |
| DIVIDEND INCOME FROM COST BASIS |  |
| UNCONSOLIDATED AFFILIATES       |  |
| GAIN/(LOSS) ON DISPOSITION OF PP&E |  |
| MINORITY INTEREST IN INCOME (NET OF INCOME TAX) |  |
| FOREIGN CURRENCY TRANSLATION EFFECTS |  |
| INCOME TAXES:                 |  |
| CURRENT                        |  |
| DEFERRED                       |  |
| TOTAL INCOME TAX               |  |
| TOTAL OTHER REVENUE & (EXPENSE) |  |
| INCOME BEFORE LINES 28.00 & 29.00 |  |
| EXTRAORDINARY ITEMS            |  |
| CUMULATIVE EFFECT OF ACCOUNTING CHANGES |  |
| CONTRIBUTION TO NET INCOME    |  |

Columns: Domestic and Foreign, by petroleum segment
Transfer Pricing Report
Schedules B, C, P

Frame: Refiners importing 500,000 bbls crude/month or importing any quantity through an affiliated entity
Available: FEA Confidential
Time Frame: 1977-

Comparable Data

Purchase price of crude obtained from foreign sources together with quantities should appear as revenues to foreign producing segments and as acquisition costs of raw materials for domestic refining segments. Transportation costs should correspond to revenues for International Marine segment for intracorporate transportation.
FRS Form 5210 cont.

FTC-LB

Availability: 1
Comparability: 1

Line of Business Forms
Schedules IV (A) and III (A)

Frame: Largest corporations
Available: FTC confidential
Time Frame: Since 1973

Comparable Data

Requires operating revenues and expenses for domestic lines of business in line items or totals similar to FRS 5210.
Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Certain income contributions are reported by line of business on Form 10-K although companies usually do not provide the detailed breakdown of foreign and domestic segments, nor is the "petroleum" segment usually subdivided for reporting purposes.
## Schedule B.2.a
FRS Form 5211: General Operating Expenses - Petroleum Production & Refining/Marketing Segments

### Domestic Production Segment:

**Exploration:**
- Acquisition of Unproved Acreage
- Drilling & Equipping of Wells:
  - Dry Holes
  - Oil Wells
  - Gas Wells
  - Work-in-Progress Adjustment
  - Total
- Lease Rents
- Geological & Geophysical
- Test Hole Contributions
- Land Department, Leasing & Scouting
- Other
- Total Exploration

**Development:**
- Drilling & Equipping of Wells:
  - Dry Holes
  - Oil Wells
  - Gas Wells
  - Work-in-Progress Adjustment
  - Total Drilling & Equipping of Wells
- Lease Equipment
- Lease (Acquisition of Proved Acreage)
- Other
- Total Development

**Production (Lifting):**
- Well Operations, Maintenance & Workovers:
  - Primary Recovery Programs
  - Improved Recovery Programs:
    - STATUTORY TERTIARY
    - OTHER IMPROVED RECOVERY
    - Total
  - Gas Processing Facilities
  - Ad Valorem Taxes
  - Severance Taxes
  - Other
  - Total Production (Lifting)
- Total of Lines 12.00, 21.00 & 30.00
- Less: DD&A of Support Equipment and Facilities
- Natural Gas & Plant Products - Natural Gas
- Purchases and Inventory Change
- Selling and Related Expenses
- Total Domestic Production Segment
- General Operating Expenses
  - (SCH 5210, LINE 11.00, COL I)

### Domestic Refining/Marketing Segment:

**Raw Materials:**
- Raw Material Purchases
  - (SCH 5212, LINE 05.00, COL A)
- Raw Material Transportation
  - (SCH 5215, LINE 19.00)
- Raw Material Exchange Differentials
- Changes in Raw Material Inventories
- Other Raw Material Supply Expense
- Total Raw Material Supply Expense
- Less: Raw Materials Input to Refining
- Net Raw Material Supply (Line 41.00 Minus 42.00)

**Refined Products:**
- Raw Materials Input to Refining (Line 42.00)
- Credit Amt of Raw Materials Used as Refinery Fuel
- DOE Crude Entitlements
- Other Refining Operating Expenses
- Refined Product Purchases
  - (SCH 5212, LINE 05.00, COL F)
- Refined Product Exchange Differentials
- Changes in Refined Product Inventories
- Refined Product Transportation
  - (SCH 5215, LINE 20.00)
- Other Refined Product Supply Expenses
- Total (Lines 44.00 Thru 53.00)

### Domestic Refining/Marketing Segment:

**Marketing:**
- Purchases of Other Products (Include TBA)
- Changes in Other Product Inventories
  - (Include TBA)
- Advertising
- DOE Residual Fuel Entitlements
  - Consumer Excise Taxes
  - Other Marketing Expenses:
    - Credit Card Operating Expenses
    - Company-Operated (Salaried)
    - Retail Outlet Operating Expenses
    - Other Marketing Expenses
  - Total Marketing Expenses (Lines 55.00 Thru 62.00)
- Expense of Transportation Services for Others
  - (SCH 5215, LINE 21.00)
- Total Domestic Refining/Marketing Segment
- General Operating Expenses
  - (SCH 5210, LINE 11.00, COL J)

Columns: Domestic by Alaska and Lower 48, offshore and onshore; Foreign by geographic region
FOREIGN PRODUCTION SEGMENT:

EXPLORATION:
- DRILLING & EQUIPPING OF WELLS
- GEOLOGICAL & GEOPHYSICAL
- OTHER EXPLORATION EXPENSES
- TOTAL EXPLORATION EXPENSES

DEVELOPMENT:
- LEASE EQUIPMENT
- DRILLING & EQUIPPING OF WELLS
- OTHER DEVELOPMENT EXPENSES
- TOTAL DEVELOPMENT EXPENSES

PRODUCTION (LIFTING):
- ROYALTY EXPENSES
- TAXES OTHER THAN INCOME TAXES
- OTHER PRODUCTION (LIFTING) EXPENSES
- TOTAL PRODUCTION (LIFTING) EXPENSES
- TOTAL OF LINES 69.00, 73.00, & 77.00
- LESS: DD&A OF SUPPORT EQUIPMENT AND FACILITIES

NATURAL GAS & PLANT PRODUCTS: NATURAL GAS LIQUIDS
- PURCHASES AND INVENTORY CHANGE
- SELLING & RELATED EXPENSES
- TOTAL (LINES 80.00 PLUS 81.00)
- TOTAL FOREIGN PRODUCTION SEGMENT
- GENERAL OPERATING EXPENSES
(SEC 5210, LINE 11.00, COL Q)

FOREIGN REFINING/MARKETING SEGMENT
(SEE SCHEDULE 5210, LINE 11.00, COL R)

EXPLORATION:
- DRILLING & EQUIPPING OF WELLS
- GEOLOGICAL & GEOPHYSICAL
- OTHER EXPLORATION EXPENSES
- TOTAL EXPLORATION EXPENSES

DEVELOPMENT:
- LEASE EQUIPMENT
- DRILLING & EQUIPPING OF WELLS
- OTHER DEVELOPMENT EXPENSES
- TOTAL DEVELOPMENT EXPENSES

PRODUCTION (LIFTING):
- ROYALTY EXPENSES
- TAXES OTHER THAN INCOME TAXES
- OTHER PRODUCTION (LIFTING) EXPENSES
- TOTAL PRODUCTION (LIFTING) EXPENSES
- TOTAL OF LINES 69.00, 73.00, & 77.00
- LESS: DD&A OF SUPPORT EQUIPMENT AND FACILITIES

NATURAL GAS & PLANT PRODUCTS: NATURAL GAS LIQUIDS:
- PURCHASES AND INVENTORY CHANGE
- SELLING & RELATED EXPENSES
- TOTAL (LINES 80.00 PLUS 81.00)
- TOTAL FOREIGN PRODUCTION SEGMENT
- GENERAL OPERATING EXPENSES
(SCH 5210, LINE 11.00, COL Q)
Bid Reports - Bonner & Moore

Frame: All companies participating in Federal offshore lease sales
Available: By company
Time Frame: Since 1971 or prior

Comparable Data

Lease report covers payments for offshore tracts by company and for each lease sale.
FRS Form 5211 cont.

FEA 124-M-1

Availability: 1
Comparability: 3

Domestic Crude Oil Purchasers Report
Schedule B: Summary of Transactions

Frame: Universe of 250 purchasers
Available: By company

Corresponding Data

Dollar value of Raw Materials purchases on FRS 5211.
Dollar value of First Purchases on FEA 124-M-1.
Report of Producer Expenditures
and Revenues

Population: Universe of Natural Gas Companies with interstate gas \( \geq 250 \) MMCF/Year
Available: By company
Time Frame: Some data from 1970, most from 1974

Comparable Data

Lists expenditures for Exploration Development and Production. Will tend to conform closely with FRS 5211 on production expenditures. May be reconcilable with FRS 5212 and 5213. Separates Lower 48 from Alaska. Domestic data only.
FRS Form 5211 cont.

P-110

Availability: 1
Comparability: 1

Refinery Cost Pass Through

Frame: All refiners
Available: FEA, confidential

Comparable Data

Costs of crude oil purchased on P-110 should tie in with costs of raw materials on FRS 5211. The total is, however, subdivided differently on each form.
FRS Form 5211 cont.

SEC Form 10-K (Required)

Availability: 1
Comparability: 4

**Annual Report of Corporations**

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce

Available: By company

Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

**Comparable Data**

 Costs of exploration, production and development must be disclosed in the year incurred. These data are similar to the line items on FRS 5211 but are not exactly the same. FRS 5211 required those costs which are expensed while 10-K requires specific disclosure of all costs incurred whether expensed or capitalized. Breakdowns by foreign and domestic categories may be required depending on company operations.
FRS Form 5111 cont.

SEC Form 10-K (Optional)  

Availability: 1  
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce  
Available: By company  
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Volume data on refinery runs and related costs are often included in company 10-K filings or stockholder reports.
### Schedule B.2.b

**FRS Form 5212: Acquisitions of Raw Material and Refined Products: Petroleum Refining/Marketing Segments**

<table>
<thead>
<tr>
<th>Description</th>
<th>Domestic Refining/Marketing Segment: Cost of Purchases From:</th>
<th>Domestic Refining/Marketing Segment: Volumes (MB &amp; MMCF) Purchased From:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Domestic Production Segment</td>
<td>Foreign Refining/Marketing Segment (Trading)</td>
</tr>
<tr>
<td></td>
<td>...........................................</td>
<td>...........................................</td>
</tr>
<tr>
<td></td>
<td>Foreign Refining/Marketing Segment (Trading)</td>
<td>...........................................</td>
</tr>
<tr>
<td></td>
<td>...........................................</td>
<td>...........................................</td>
</tr>
<tr>
<td></td>
<td>...........................................</td>
<td>...........................................</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Foreign Refining/Marketing Segment: Volumes (MB &amp; MMCF) Purchased From:</th>
<th>Foreign Refining/Marketing Segment:</th>
<th>Foreign Production Segment</th>
<th>Foreign Refining/Marketing Segment (Trading)</th>
<th>Foreign Unconsolidated Affiliates</th>
<th>Foreign Unaffiliated Third Parties: Foreign Governments (Open Market)</th>
<th>Other</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foreign Production Segment</td>
<td>Foreign Refining/Marketing Segment (Trading)</td>
<td>Foreign Unconsolidated Affiliates</td>
<td>Foreign Unaffiliated Third Parties:</td>
<td>Foreign Governments (Open Market)</td>
<td>Other</td>
<td>Total</td>
<td>Total Volumes Purchased</td>
</tr>
<tr>
<td></td>
<td>...........................................</td>
<td>...........................................</td>
<td>...........................................</td>
<td>...........................................</td>
<td>...........................................</td>
<td>...........................................</td>
<td>...........................................</td>
<td>...........................................</td>
</tr>
</tbody>
</table>

**Columns:** by product classification
API
Availability: 9
Comparability: 2

Basic Petroleum Data Book
Section IX  Imports

Frame: Total data for countries and for some specific regions - e.g. offshore
Available: Industry subsets
Time Frame: Series date back to 1947 in the 1977 edition

Comparable Data

Imports of crude petroleum and certain fuels, semifinished and finished products by: (1) country of origin and (2) P.A.D. district.
Arkansas Oil and Gas Commission
Annual Report

Frame: Plants operating in Arkansas
Available: Totals for the state
Time Frame: Since 1930

Comparable Data

Intake of gas by source for gas plants. Crude runs to stills for Arkansas refineries.
Annual Survey of Manufacturers

Frame: All manufacturers (petroleum and coal = 1 industry)
Available: Public reports by industry
Purchasable reports by industry subsets of no fewer than four companies

Comparable Data

Costs of materials, supplies and parts consumed, costs of fuel consumed and other costs of manufacturing are reported on MA-100. There may be a relationship to costs reported for refining (the major "manufacturing" activity in an integrated petroleum operation).
Transfer Pricing Report

Schedules C and (D): Imported Crude Petroleum
 Obtained Through Exchanges (and by Purchases)

Frame: Refiners importing 500,000 bbls crude/month or importing any quantity through an affiliated entity
Available: FEA Confidential
Time Frame: 1977-

Comparable Data

Reports cost and volume data for imported crude oil. Also contains schedules on costs of equity and buy back oil together with related transportation and other expenses. Volumes should be reconcilable to raw materials acquisitions on FRS 5212.
Transfer Pricing Report
Schedule D: Summary of Foreign Crude Trading
Activity by Country of Crude Origin

Frame: Refiners importing 500,000 bbls crude/month or importing any quantity through an affiliated entity
Available: FEA Confidential
Time Frame: 1977-

Comparable Data

Covers dispositions of foreign crude to U.S. affiliates, non-U.S. affiliates, other sales and exchanges. Data should be reconcilable to reported crude volumes of sales by foreign segments and acquisitions of foreign crude by U.S. affiliates.
Comparability: 1

Frame: 
Available: FLA, confidential

Comparable Data

Total costs of purchases should tie in to P-110. However, P-110 requests data classified as to whether it is controlled price or uncontrolled for domestic crude and a separate line for imported crude. These data should be reconcilable to the cost data on FRS 5212.

Volumes are reported on P-110 by domestic (controlled or uncontrolled) and foreign. Breakdowns by source of raw materials are not provided although totals should be reconcilable.

Data are only provided on crude oil. A separate schedule is provided for natural gas processors.
FEA 124-M-1

Availability: 1
Comparability: 3

Domestic Crude Oil Purchasers Report
Schedule C: First Purchaser Producer Report

Frame: Universe of 250 Purchasers of Crude
Available: By company

Comparable Data: Crude Oil Only

Materials purchases by supplier (i.e. domestic production segment, foreign segments, unconsolidated affiliates and domestic unaffiliated third parties) in dollars and quantities on Form FRS 5212.

Materials purchases by producer and by tier on FEA P124-M in dollars and quantities.
FRS Form 5212 cont.

FEA-P320

Availability: ?
Comparability: 1

Refinery Report

Frame: All refineries in the U.S. and Puerto Rico
Available: FEA, confidential

Comparable Data

Reports volumes of crude oil received by each refinery by transportation method (i.e. pipeline, tanker, etc.) both domestic and foreign. Should correspond to total volumes purchased (domestic and foreign) on FRS 5212.

Covers refinery receipts of products of natural gas plants which may be related to raw materials headings on natural gas plant products - FRS 5212.

Also reports foreign crude oil receipts by country of origin.
FRS Form 5212 cont.

Availability: 4
Comparability: 1

Peru - Annual Report of Petroleum Statistics

Frame: Companies operating in Peru
Available: Most data reported by company
Time Frame: Pre 1960

Comparable Data

Import and export data by company.
### Schedule B.2.c
FRS Form 5213: Disposition of Raw Materials

#### Foreign Production Segment:

**Sales Calculation:**
- Total Value of Production and Purchases
- Less: Amounts Used in Production
- Raw Material Inventory Changes
- Foreign Production Segment Sales

**Sales Breakdown (Sales To):**
- Foreign Refining/Marketing Segment
- Other Foreign Segments
- Unconsolidated Affiliates
- Third Parties
- Total (SCH 5210, Line 01.00, COL Q)

**Foreign Refining/Marketing Segment:**

**Sales to:**
- Domestic Refining/Marketing (SCH 5212, Line 02.00)
- Foreign Chemical Segment
- Other Foreign Segments
- Unconsolidated Foreign Affiliates
- Foreign Unaffiliated Third Parties
- Total (SCH 5210, Line 01.00, COL R)

**Internal Use and Input (Cost):**
- Refineries
- Other (Including Transportation Cost Centers)
- Total

**Total (Line 37.00 plus 40.00)**

#### Domestic Dispositions:

**Domestic Production Segment:**

**Sales Calculation:**
- Total Value of Production and Purchases
- Less: Amounts Used in Production
- Raw Material Inventory Changes
- Domestic Production Segment Sales

**Sales Breakdown (Sales To):**
- Domestic Refining/Marketing Segment
- Other Domestic Segments
- Unconsolidated Affiliates
- Third Parties
- Total (SCH 5210, Line 01.00, COL I)

**Domestic Refining/Marketing Segment:**

**Sales to:**
- Foreign Refining/Marketing (SCH 5212, Line 12.00)
- Domestic Chemical Segment
- Domestic Production Segment
- Other Domestic Segments
- Unconsolidated Domestic Affiliates:
  - Domestic Petroleum Industry
  - Other Domestic Industries
- Domestic Unaffiliated Third Parties
- Total (SCH 5210, Line 01.00, COL J)

**Internal Use and Input (Cost):**
- Own Domestic Refineries
- Other Refineries (For Own Account)
- Other (Including Transportation Cost Centers)
- Total

**Total (Line 17.00 plus 21.00)**

**Columns:** By product type

---

70
API

Availability: 8
Comparability: 1

Basic Petroleum Data Book
Section VI Prices

Frame: Total data for countries and for some specific regions - e.g. offshore
Available: Industry subsets
Time Frame: Series date back to 1947 in the 1977 edition

Comparable Data

Wellhead prices of crude oil and natural gas by state and for key foreign areas.
Basic Petroleum Data Book
Section X  Exports

Frame: Total data for countries and for some specific regions - e.g. offshore

Available: Industry subsets
Time Frame: Series date back to 1947 in the 1977 edition

Comparable Data

U.S. exports of crude oil and refined products of leading countries. Exports from certain major producing areas of the world to consuming areas.
Arkansas Oil and Gas Commission
Annual Report

Frame: Plants operating in Arkansas
Available: Statewide totals
Time Frame: Since 1930

Comparable Data

Volumes of dispositions of gas including internal use and manufactured quantities of gas plant products.
BOC MA-100

Availability: 2
Comparability: 3

Annual Survey of Manufacturers

Frame: All manufacturers
Available: Public reports by industry
Purchasable reports by industry subsets of no fewer than four companies

Comparable Data

Quantities and values of products sold by produce are required on Form MA-100-K. Products that are the same as refiners outputs should be reconcilable to data on FRS 5213.
FRS Form 5213 cont.

FEA-100A

Availability: 1
Comparability: 3

Producers and Wholesale Purchaser Reseller
Report for Propane and Butane

Frame: Producer/Supplier
Available: FEA
Time Frame: 1974

Comparable Data

Volumes of gas plant production and other production of butanes and other plant products.
FRS Form 5213 cont.
FEA-P124-M

Availability: 1
Comparability: 3

Domestic Crude Oil First Purchasers Report
Schedules C & D

Frame: Universe of 250 crude oil purchasers
Available: By company

Comparable Data

Crude oil purchases by producer/operator may cover purchases from domestic production segment on FRS 5213 for crude oil. FEA-P124 has purchase data by supplier, by tier and by state.
FRS Form 5213 cont.

FEA-P320

<table>
<thead>
<tr>
<th>Availability:</th>
<th>?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparability:</td>
<td>2</td>
</tr>
</tbody>
</table>

Refrinery Report

Frame: All refineries in the U.S. and Puerto Rico
Available: FEA, confidential

Comparable Data

Volumes of shipments of refinery products by product including shipments of crude and other raw materials from the refinery are reported on this form. When aggregated across refineries owned by a company, the dispositions of raw materials, adjusted for internal transfers, should correspond to the data on FRS 5213.
Production, Revenue, Royalty and Productivity Data

Population: Universe of Natural gas companies with interstate gas ≥250 MMCF/Year
Available: By company
Time Frame: 1974 on

Comparable Data

Revenue from the sale of gas and liquids should correspond to related data on FRS 5213 although different transfer pricing assumptions may result in differences in the data reported on each form.

Separates Lower 48 from Alaska

Domestic only
FRS Form 5213 cont.

P-328

Availability: 1
Comparability: 2

Foreign Crude Oil Cost Report

Frame: Acquirers of at least 100M bpd of crude
Available: FEA
Time Frame: 1976 on

Comparable Data

Volumes and costs of production of 16 crude oils in foreign countries.
FRS Form 5213 cont.

U. S. Bureau of Mines
Availability: 3
Comparability: 1

Minerals Yearbook

Frame: Oil and gas producing, transportation and refining companies
Available: Reports based on various geographic breakdowns
Time Frame: Since Pre 1960

Comparability Data

U.S. and foreign production. Exports and imports of crude oil and natural gas liquids value of crude at the wellhead. Imports by product. Further detailed by month and by PAD district.

Posted per barrel price by grade, at primary producing districts with dates of price changes.
FRS Form 5213 cont.

U.S. Bureau of Mines

Availability: 3
Comparability: 1

Minerals Yearbook

Frame: Oil and gas producing, transportation and refining companies
Available: Reports based on various geographic breakdowns
Time Frame: Since Pre 1960

Comparable Data

Receipts of crude oil by source by state. Refinery fuel use of crude receipts.

Percentage yield of refinery products from crude oil.

Refinery inputs and outputs by product. Annual and by month.

Refinery output and motor gasoline consumption by state.
## FRS Form 5214: Disposition of Refined Products

**DOMESTIC DISPOSITIONS:**

**DOMESTIC INTRA-COMPANY SALES:**
- FOREIGN REFINING/MARKETING SEGMENT
- DOMESTIC CHEMICAL SEGMENT
- INTERNATIONAL MARINE SEGMENT
- DOMESTIC PRODUCTION SEGMENT
- OTHER DOMESTIC SEGMENTS
- TOTAL DOMESTIC INTRA-COMPANY SALES

**DOMESTIC THIRD-PARTY SALES:**

**WHOLESALE-RESELLERS:**
- BRANDED:
  - RACK
  - TANK WAGON
  - OTHER
- UNBRANDED:
  - RACK
  - TANK WAGON
  - OTHER
- TOTAL

**ULTIMATE CONSUMPTION:**

**RETAIL OUTLETS:**
- COMPANY OUTLETS
- OTHER OUTLETS
- OTHER, INCLUDING INDUSTRIAL AND COMMERCIAL

**DOMESTIC UNCONSOLIDATED AFFILIATES:**
- CHEMICAL INDUSTRY
- OTHER DOMESTIC INDUSTRIES
- TOTAL DOMESTIC THIRD-PARTY SALES

**TOTAL (SCH 5210, LINE 02.00, COL J)**

**FOREIGN DISPOSITIONS:**

**FOREIGN INTRA-COMPANY SALES:**
- DOMESTIC REFINING/MARKETING SEGMENT
- OTHER FOREIGN SEGMENTS
- TOTAL FOREIGN INTRA-COMPANY SALES

**FOREIGN THIRD-PARTY SALES:**
- FOREIGN UNCONSOLIDATED AFFILIATES
- OTHER FOREIGN THIRD-PARTY SALES
- TOTAL FOREIGN THIRD-PARTY SALES

**TOTAL (SCH 5210, LINE 02.00, COL R)**

Columns: Domestic by-products, Foreign totals only.
FRS Form 5214 cont.

BOC MA-100

Availability: 2
Comparability: 3

Annual Survey of Manufacturers

Frame: All manufacturers (petroleum and coal = 1 industry)
Available: Public reports by industry
Purchasable reports by industry subsets of no fewer than four companies

Comparable Data

Sales and volume data on individual products are required. These data should be reconcilable to the disposition data on FRS Form 5214.
FRS Form 5214 cont.
EIA-8
Availability: 4
Comparability: 3

Retail Motor Fuels Service Station Survey

Frame: Retail service stations
Available: EIA
Time Frame: 1978-?

Comparable Data

Volume and revenue of sales of gasoline and diesel fuels by retail gasoline service stations. Also, purchase costs and volumes for gasolines and diesel fuel.

Should have similar trends to reported FRS 5214 volumes and dollar values for these products.
FRS Form 5214 cont.

EIA-9

Availability: 4
Comparability: 4

No. 2 Heating Oil Supply/Price Monitoring Report

Frame: Sample of refiners, retailers and resellers
Available: FEA

Comparable Data

Volume sales and prices for No. 2 heating oil to ultimate consumers and others. Would be a part of dispositions of refined products but would probably not be reconcilable to FRS 5214 without other data.
FRS Form 5214 cont.

FEA P-302

Availability: 1
Comparability: 1

Refiner/Importer
Monthly Report of Petroleum Product Distribution

Frame: N/A
Available: By company

Comparable Data

Provides volumes of sales of gasolines, distillate and residual fuels to branded dealers, unbranded dealers, independent marketers and others. Some of the data would appear directly comparable to FRS 5214. Other data (e.g. by rack, tank wagon, or other) would not be available, although totals for categories may be obtained.
FRS Form 5214 cont.

FEA P-306

Availability: 1
Comparability: 1

Petroleum Industry Report for Product Prices

Frame: Refiners and Gas Processors; Retailers and Resellers with revenues from covered products of more than $50 million
Available: FEA confidential
Time Frame: Since 1975 or 1976

Comparable Data

Volumes and values of refined products sold by product. Totals should tie in with similar totals on FRS 5214. Product totals should also be similar to FRS 5214. Data by type of purchaser are not available on P-306.
FRS Form 5214 cont.

FEA P-314

Availability: 1
Comparability: 1

Monthly Survey of Distillate and Residual Fuel Oil Sales to Ultimate Consumers

Frame: Sample data
Available: FEA confidential
Time Frame: Since 1975

Comparable Data

Sales volumes of distillate and residual fuels to ultimate consumers by state. Volume data across all states should tie in with sales to ultimate consumers for these products on FRS 5214.
Distillate Import Monitoring Report

Frame: Importers as defined
Available: FEA
Time Frame: 1977

Comparable Data

Acquisition costs and volumes for No. 1 and No. 2 Heating oil and kerosene. Data may be reconcilable to foreign dispositions and/or may provide information on unit prices and costs for foreign/domestic transfers.
FRS Form 5214 cont.

FEO-1000  
Availability: 1  
Comparability: 1

Prime Suppliers Monthly Report

Frame: All suppliers  
Available:  
Time Frame: Mandatory allocation program

Comparable Data

Volumes of deliveries of product by product type.
Peru - Annual Report of Petroleum Statistics

Frame: Companies operating in Peru
Available: Most data reported by company
Time Frame: Pre 1960

Comparable Data

Marketing volume data by product and by company.
Petroleum Review - Oklahoma

Frame: Varies - covers Oklahoma operations. Conducts surveys on various activities
Available: Data usually presented on company activities
Time Frame: Depends on topic

Comparable Data

March 1978 - Oklahoma petroleum retail outlets by company.
FRS Form 5214 cont.

SEC Form 10-K (Optional)

Availability: 1
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Sales data by the marketing segment may be reported in volume and value terms in categories similar to those on FRS 5214. However, the company has the option of disclosure as well as disclosure format.
FRS Form 5215

Domestic & Foreign Petroleum Segments
Primary Transportation Expenses
TOTAL DOMESTIC PRIMARY TRANSPORTATION EXPENSE BY SOURCE:

INTERNAL SEGMENT SERVICE TRANSPORTATION:
- MARINE OPERATIONS
- (OTHER THAN INTERNATIONAL MARINE SEGMENT)
- PIPELINE OPERATIONS (OTHER THAN FEDERALLY REGULATED PIPELINE SEGMENT)
- OTHER TRANSPORTATION OPERATIONS

TOTAL TRANSPORTATION OPERATIONS

CHARGES FROM SEGMENTS:
- AMOUNTS CHARGED BY INTERNATIONAL MARINE SEGMENT
- AMOUNTS CHARGED BY FEDERALLY REGULATED PIPELINE SEGMENT

TOTAL

CHARGES BY UNCONSOLIDATED AFFILIATES:
- MARINE AFFILIATES
- PIPELINE AFFILIATES
- OTHER AFFILIATES

TOTAL

PURCHASES FROM THIRD PARTIES:
- MARINE
- PIPELINE
- OTHER

TOTAL

TOTAL DOMESTIC TRANSPORTATION EXPENSE (EQUAL TO LINE 22.00)

TOTAL DOMESTIC PRIMARY TRANSPORTATION EXPENSE BY APPLICATION:

FOR OWN USE:
- RAW MATERIAL TRANSPORTATION:
  - CRUDE
  - CONDENSATE
  - OTHER RAW MATERIALS
  - TOTAL (SCH 5211, LINE 37.00)
- REFINED PRODUCT TRANSPORTATION
  (SCH 5211, LINE 52.00)
- FOR OTHERS (SCH 5211, LINE 62.00)

TOTAL DOMESTIC TRANSPORTATION EXPENSE (EQUAL TO LINE 16.00)

AMOUNTS CHARGED BY INTERNATIONAL MARINE SEGMENT TO FOREIGN REFINING/MARKETING SEGMENT

Columns: Totals only
Basic Petroleum Data Book
Section XII Transportation

Frame: Total data for countries and for some specific regions - e.g. offshore
Available: Industry subsets
Time Frame: Series date back to 1947 in the 1977 edition

Comparable Data

Mileage of pipelines by crude and product truck lines and gathering lines. Gas utility pipeline mileage by: distribution, transmission and field definitions.

U.S. and world tanker fleet in number of vessels and gross and deadweight tons.
Transfer Pricing Report
Schedules B and C

Frame: Refiners importing 500,000 bbls crude/month or importing any quantity through an affiliated entity
Available: FEA Confidential
Time Frame: 1977 -

Comparable Data

Transportation costs for imported crude obtained by purchase or exchange is listed for each shipment of crude received and further itemized by vessel. Domestic transportation expense for imported crude may be related to charges levied either by the company's own international marine division or through charges by other international marine transportation companies.

Tanker receipts of crude oil in M barrels may be obtained from Schedules B and C which should correspond in trend to tanker shipment data on FRS 5215.
FRS Form 5215 cont.

FPC-11

Availability: 1
Comparability: 3

National Gas Pipeline Company
Monthly Statement

Frame: Federally regulated pipelines - intersect with FRS respondents is only partial
Available: By company

Comparable Data

It is not clear that the data on this schedule are comparable to data on FRS 5215. FPC-11 is primarily designed for pipelines with public utility operations. The intersect with FRS data appears slight.
FRS Form 5215 cont.

Availability: 9
Comparability: 3

OPEC Annual Review and Record

Frame: Survey of worldwide petroleum activities
Available: Subdivided by country (in some cases)
Time Frame: Since before 1970

Comparable Data

Tanker rates and estimates of worldwide tanker capacity.
Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Companies may disclose transportation statistics similar to those required on FRS Form 5215. The disclosure is at the option of the company so the exact format and degree of correlation with FRS may only be determined by reference to company reports, 10-K.
FRS Form 5215 cont.

Availability: 1
Comparability: 2

Petroleum Review - Oklahoma

Frame: Varies - covers Oklahoma operations. Conducts surveys on various activities
Available: Data usually presented on company activities
Time Frame: Depends on topic

Comparable Data

June 1978 Survey of marine operation profits for major companies
SELECTED CURRENT ASSETS:
  TRADE ACCOUNTS AND NOTES RECEIVABLE ............
INVENTORIES:
  RAW MATERIALS & PRODUCTS ................................
  MATERIALS & SUPPLIES ......................................
NON-CURRENT ASSETS:
PROPERTY PLANT & EQUIPMENT (SCH 5221):
  GROSS ................................................................
  ACCUMULATED DD&A ............................................
  NET ..................................................................
INVESTMENT & ADVANCES TO UNCONSOLIDATED AFFILIATES .................................................................
OTHER NON-CURRENT ASSETS ...................................
TOTAL NON-CURRENT ASSETS .....................................

Columns: Domestic v. Foreign, by petroleum segments

102
FRS Form 5220 cont.

BOC MA-100

Availability: 2
Comparability: 3

Annual Survey of Manufacturers

Frame: All manufacturers (Petroleum & Coal operations = 1 industry)
Available: Public reports by industry
Purchaseable reports by industry subsets of no fewer than four companies

Comparable Data

Gross book value of property plant and equipment for petroleum and coal operations taken together are reported.
FRS Form 5220 cont.

FTC-LB

Availability: ?
Comparability: 1

Line of Business Form
Schedule III (B)

Frame: Largest corporations
Available: FTC confidential
Time Frame: Since 1973

Comparable Data

Inventories and property, plant and equipment and related DD&A data are required by FTC lines of business.
FRS Form 5220 cont.

SEC Form 10-K (Required)  
Availability: 1  
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Property plant and equipment by segments will normally be reported on SEC Form 10-K for the petroleum segment. Breakdowns within petroleum are usually not available. Inventories may be reported for the petroleum segment.
## Schedule B.3.a
FRS Form 5221: Net Property and Other Capitalized Cost Balances
Domestic & Foreign Petroleum Segments

### Production Segment:

<table>
<thead>
<tr>
<th>MINERAL INTEREST IN PROPERTIES:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PROVED</td>
<td></td>
</tr>
<tr>
<td>UNPROVED</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WELLS, EQUIPMENT &amp; FACILITIES:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GAS PROCESSING FACILITIES</td>
<td></td>
</tr>
<tr>
<td>OTHER</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SUPPORT EQUIPMENT &amp; FACILITIES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UNCOMPLETED WELLS, EQUIPMENT &amp; FACILITIES</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL**

### Refining/Marketing Segment:

<table>
<thead>
<tr>
<th>REFINING:</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>MARKETING:</th>
<th></th>
</tr>
</thead>
</table>

**TRANSPORTATION:**

<table>
<thead>
<tr>
<th>PIPELINE:</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>MARINE:</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>OTHER:</th>
<th></th>
</tr>
</thead>
</table>

**TOTAL**

### Federally Regulated Pipelines:

<table>
<thead>
<tr>
<th>CRUDE/LIQUID</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>NATURAL GAS:</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>REFINED PRODUCT:</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>INTERNATIONAL MARINE:</th>
<th></th>
</tr>
</thead>
</table>

**TOTAL (SCH 5221, LINE 06.00)**

---

Columns: Domestic by Alaska and Lower 48, onshore and offshore; Foreign by geographical region

106
FRS Form 5221 cont.

SEC Form 10-K (Required) Availability: 1
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Production segment capitalized cost balances by line items similar to FRS 5221. Further breakdown by domestic and foreign segments may be available depending upon the characteristics of the specific company's operations.
### Schedule B.3.b
FRS Form 5222: Changes in Net Property and Other Capitalized Cost Balances
Domestic and Foreign Petroleum Segments

<table>
<thead>
<tr>
<th>Domestic Production Segment:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Interests in Properties:</td>
<td></td>
</tr>
<tr>
<td>Proved</td>
<td></td>
</tr>
<tr>
<td>Unproved</td>
<td></td>
</tr>
<tr>
<td>Wells, Equipment &amp; Facilities:</td>
<td></td>
</tr>
<tr>
<td>Gas Processing Facilities</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Support Equipment &amp; Facilities</td>
<td></td>
</tr>
<tr>
<td>Uncompleted Wells, Equipment &amp; Facilities</td>
<td></td>
</tr>
<tr>
<td>Total Domestic Production Segment</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Domestic Refining/Marketing Segment:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Refining (SCH 5130) (Note 1, Below)</td>
<td></td>
</tr>
<tr>
<td>Marketing (SCH 5130) (Note 2, Below)</td>
<td></td>
</tr>
<tr>
<td>Transportation (SCH 5130)</td>
<td></td>
</tr>
<tr>
<td>Total Domestic Refining/Marketing Segment</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Federally Regulated Pipelines (SCH 5130):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude/Liquid</td>
<td></td>
</tr>
<tr>
<td>Natural Gas</td>
<td></td>
</tr>
<tr>
<td>Refined Product</td>
<td></td>
</tr>
<tr>
<td>Note 1: Breakdown of Line 08.00 Above:</td>
<td></td>
</tr>
<tr>
<td>Refinery Refurbishment &amp; Expansion</td>
<td></td>
</tr>
<tr>
<td>New Refinery Construction</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Total (Must Equal Line 08.00, Col B)</td>
<td></td>
</tr>
<tr>
<td>Note 2: Breakdown of Line 09.00 Above:</td>
<td></td>
</tr>
<tr>
<td>Retail Outlet Refurbishment &amp; Expansion</td>
<td></td>
</tr>
<tr>
<td>New Retail Outlet Construction</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Total (Must Equal Line 09.00, Col B)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Foreign Production Segment:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Interests in Properties:</td>
<td></td>
</tr>
<tr>
<td>Proved</td>
<td></td>
</tr>
<tr>
<td>Unproved</td>
<td></td>
</tr>
<tr>
<td>Wells, Equipment &amp; Facilities:</td>
<td></td>
</tr>
<tr>
<td>Gas Processing Facilities</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Support Equipment &amp; Facilities</td>
<td></td>
</tr>
<tr>
<td>Uncompleted Wells, Equipment &amp; Facilities</td>
<td></td>
</tr>
<tr>
<td>Total Foreign Production Segment</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Foreign Refining/Marketing Segment:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Refining (SCH 5130)</td>
<td></td>
</tr>
<tr>
<td>Marketing (SCH 5130)</td>
<td></td>
</tr>
<tr>
<td>Transportation (SCH 5130)</td>
<td></td>
</tr>
<tr>
<td>Total Refining/Marketing Segment</td>
<td></td>
</tr>
<tr>
<td>International Marine Segment (SCH 5130)</td>
<td></td>
</tr>
</tbody>
</table>

Columns: Domestic by Alaska and Lower 48, onshore and offshore; Foreign by geographic region

108
**Annual Survey of Manufacturers**

Frame: All manufacturers (Petroleum and Coal = 1 industry)
Available: Public reports by industry

Purchasable reports by industry subsets of no fewer than four companies

**Comparable Data**

Capital expenditures for petroleum and coal operations taken together are reported. Data should be reconcilable to additions to property plant and equipment with further data from coal operations.
FRS Form 5222 cont.

SEC Form 10-K

**Availability:** 1
**Comparability:** 1

**Annual Report of Corporations**

**Frame:** All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce

**Available:** By company

**Time Frame:** Required disclosures beginning 12/25/79; optional disclosures go back a number of years

**Comparable Data**

Changes in net property for both domestic and foreign properties must be reported in SEC Form 10-K, if material. Breakdowns of cost balances similar to the line items on FRS 5222 are required.
**EXPLORATION:**

- **ACQUISITION OF UNPROVED ACREAGE**
- **DRILLING & EQUIPPING OF WELLS:**
  - DRY HOLES
  - OIL WELLS
  - GAS WELLS
  - WORK-IN-PROGRESS ADJUSTMENT
  - TOTAL
- **LEASE RENTS**
- **GEOLOGICAL & GEOPHYSICAL**
- **TEST HOLE CONTRIBUTIONS**
- **LAND DEPARTMENT, LEASING & SCOUTING**
- **OTHER, INCLUDING DIRECT OVERHEAD**
- **TOTAL EXPLORATION (SCH 5130)**

**DEVELOPMENT:**

- **DRILLING & EQUIPPING OF WELLS:**
  - DRY HOLES
  - OIL WELLS
  - GAS WELLS
  - WORK-IN-PROGRESS ADJUSTMENT
  - TOTAL DRILLING & EQUIPPING OF WELLS
- **LEASE EQUIPMENT:**
  - PRIMARY RECOVERY PROGRAMS
  - IMPROVED RECOVERY PROGRAMS:
    - STATUTORY TERTIARY
    - OTHER IMPROVED RECOVERY
  - TOTAL LEASE EQUIPMENT
- **GAS PROCESSING FACILITIES**
- **ACQUISITION OF PROVED ACREAGE**
- **OTHER INCLUDING DIRECT OVERHEAD**
- **TOTAL DEVELOPMENT (SCH 5130)**

**PRODUCTION (SCH 5130)**

**SUPPORT EQUIPMENT & FACILITIES (SCH 5130)**

**TOTAL (SCH 5222, NES 07.00 & 29.00, COL B)**

---

**Columns:** Domestic by Alaska and Lower 48, offshore and onshore; Foreign by geographic region
Basic Petroleum Data Book
Section III Exploration and Development

Frame: Total data for countries and for some specific regions - e.g. offshore
Available: Industry subsets
Time Frame: Series date back to 1947 in the 1977 edition

Comparable Data

Costs of drilling - aggregate and by footage for various types of wells and for onshore and offshore wells.
API

Availability:  2
Comparability:  2

Basic Petroleum Data Book
Section V  Financial

Frame:  Total data for countries and for some specific regions - e.g. offshore
Available:  Industry subsets
Time Frame:  Series date back to 1974 in the 1977 edition

Comparable Data

Worldwide capital and exploration expenditures for the industry.
Domestic vs. foreign expenditures.
Exploration and development expenditure for the case group of companies.
FRS Form 5223 cont.

Availability: 1
Comparability: 3

Bid Reports - Bonner & Moore

Frame: All companies participating in Federal offshore lease sales
Available: By company
Time Frame: Since 1971

Comparable Data

Expenditures for acquisition of federal offshore acreage.
FRS Form 5223 cont.

FPC-2

Availability: 1
Comparability: 1

Annual Report for Natural Gas Companies

Frame: Natural gas companies (producers, retailers, utilities)
Available: FERC
Time Frame: Since 1961

Comparable Data

Exploration and development expenses and abandoned leases costs.
Costs of hydrocarbon reserves and changes therein.
FRS Form 5223 cont.

FPC-64 - Schedule 1

Report of Producer Expenditures & Revenues

Population: Universe
Natural Gas Companies
with interstate gas \( \geq 250 \) mmcf/Year
Available: By company
Time Frame: Some data from 1970
Most only from 1974

Comparable Data

Lists expenditures for exploration, development and production. Should tend to conform closely to FRS 5223 for capitalized development costs. Should be reconcilable to FRS 5223, FRS 5221 and FRS 5222 for exploration data. Certain production data may be directly related to FRS 5223.

Separates Lower 48 from Alaska
Domestic only
FRS Form 5223 cont.

SEC Form 10-K (Required)

Availability: 1
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Capitalized costs incurred in exploration, development and production are required as on Form FRS 5223.

Breakdowns by domestic and foreign operations may be required depending on company operations or may be disclosed at the option of the company.
Schedule G.1
FRS Form 5241: Petroleum Exploration, Development, and Production Statistics

<table>
<thead>
<tr>
<th>ACREAGE (THOUSANDS OF ACRES):</th>
<th>DRILLING (THOUSANDS OF FEET):</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROSS ACREAGE:</td>
<td>GROSS DRILLING FOOTAGE:</td>
</tr>
<tr>
<td>DEVELOPED</td>
<td>EXPLORATORY WELLS:</td>
</tr>
<tr>
<td>UNDEVELOPED</td>
<td>OIL</td>
</tr>
<tr>
<td>NET ACREAGE:</td>
<td>DEVELOPMENT WELLS:</td>
</tr>
<tr>
<td>DEVELOPED</td>
<td>OIL</td>
</tr>
<tr>
<td>UNDEVELOPED</td>
<td>DRY</td>
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<td>DEVELOPMENT WELLS COMPLETED DURING PERIOD:</td>
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<td>IN-PROGRESS WELLS AT END OF PERIOD:</td>
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<td>DEVELOPMENT</td>
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Columns: Domestic by Alaska and Lower 48, offshore and onshore; Foreign by geographic region
FRS Form 5241: Continued

<table>
<thead>
<tr>
<th>WORKING INTEREST PRODUCTION:</th>
<th>NET WORKING INTEREST CRUDE OIL &amp; CONDENSATE PRODUCTION (MB) BY RECOVERY METHOD:</th>
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<tr>
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<td>COMPANY-OPERATED PROPERTIES:</td>
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<td>PRIMARY RECOVERY OPERATIONS</td>
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<td>NET WORKING INTEREST CRUDE OIL &amp; CONDENSATE PRODUCTION (MB) BY TIER:</td>
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<td>COMPANY OPERATED:</td>
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<td>OTHER</td>
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<td></td>
<td>OPERATED BY OTHERS:</td>
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<td>UPPER TIER</td>
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<td>LOWER TIER</td>
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<td>WORLD PRICE:</td>
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<tr>
<td></td>
<td>STRIPPER</td>
</tr>
<tr>
<td></td>
<td>OTHER</td>
</tr>
</tbody>
</table>

| WORKING INTEREST PRODUCTION: |  |
|-----------------------------|  |
| GROSS:                      |  |
| CRUDE OIL & CONDENSATE (MB) |  |
| NATURAL GAS (MMCF)          |  |
| NATURAL GAS LIQUIDS (MB)    |  |
| NET:                        |  |
| CRUDE OIL & CONDENSATE (MB) |  |
| NATURAL GAS (MMCF)          |  |
| NATURAL GAS LIQUIDS:        |  |
| LEASEHOLD PRODUCTION (MB)   |  |
| CONTRACT PRODUCTION (MB)    |  |
| GROSS COMPANY-OPERATED PRODUCTION: |  |
| OWN WORKING INTEREST:       |  |
| CRUDE OIL & CONDENSATE (MB) |  |
| NATURAL GAS (MMCF)          |  |
| NATURAL GAS LIQUIDS (MB)    |  |
| WORKING INTERESTS OF OTHERS:|  |
| CRUDE OIL & CONDENSATE (MB) |  |
| NATURAL GAS (MMCF)          |  |
| NATURAL GAS LIQUIDS (MB)    |  |
| NON-WORKING INTEREST (ROYALTY) PRODUCTION: |  |
| CRUDE OIL & CONDENSATE (MB) |  |
| NATURAL GAS (MMCF)          |  |
| NATURAL GAS LIQUIDS (MB)    |  |
| LONG-TERM FOREIGN GOVERNMENT AGREEMENTS: |  |
| CRUDE OIL & CONDENSATE (MB) |  |
| NATURAL GAS (MMCF)          |  |
| NATURAL GAS LIQUIDS (MB)    |  |
Alberta Energy Resources Conservation Board
Summary of Energy Resources
and Reservoir Performance Charts

Frame: Fields in Alberta
Available: By company
Time Frame: Since 1962

Comparable Data

Performance data by pool, number of producing wells, production and cumulative production. Also, drilling statistics, ownership of oil and gas fields, oil projects, and gas projects. Apparently confidentiality of company data is severely restricted so that substantial data on oil and gas drilling and operations are in the public domain.
Basic Petroleum Data Book
Sections III Exploration and Drilling;
IV Production

Frame: Total data for countries and for some specific regions - e.g. offshore
Available: Industry subsets
Time Frame: Series date back to 1947 in the 1977 edition

Comparable Data

Well drilling activity by type of well.
Estimated new field discovery quantities of recoverable reserves.
Drilling footage by type of well.
Well completions by major geographic areas and by countries within those regions.
U.S. producing wells by state.
Worldwide production by major geographic areas and by 20 major producing countries.
U.S. crude oil production by state.
U.S. stripper production.
API/AAPG/CPA Reserves Report

Frame: Survey of fields in the U.S. and Canada
Available: Data by state and, in some cases, by producing regions within states
Time Frame: Since 1946

Comparable Data

Oil, gas and natural gas liquid production by state.
Arkansas Oil & Gas Commission
Annual Report

Frame: Producing, exploration and refining activities in Arkansas
Available: Statewide report contains data on production by field
Time Frame: Data series back to 1930

Comparable Data

Number of wells drilled in the state and successful vs. dry wells.
Enhanced recovery projects.
Estimated oil and gas reserves.
Current year and cumulative production as well as number of wells in each field in the state.
Bid Reports - Bonner & Moore

Frame: All companies participating in Federal offshore base sales
Available: By company
Time Frame: Since 1971

Comparable Data

Acreage acquired in Federal offshore sales (gross and net interest shown).
California: Annual Report of the State Supervisor of Oil and Gas

Frame: Production and exploration activities in California
Available: Some data by field, county, operator
Time Frame: Since 1914

Comparable Data

Productive acreage, wells, completions and abandonment, annual and cumulative production by field.

Oil production of the fifty largest oil producers in California.
FRS Form 5241 cont.

Availability: 4
Comparability: 1

California Division of Oil & Gas
Monthly Oil & Gas Production Report

Frame: Producing fields in California and offshore
Available: Data by field
Time Frame: Pre 1960

Comparable Data

Production quantities of oil, natural gas and condensate.
Number of producing wells and wells currently drilled or completed.
Colorado Oil & Gas Conservation Commission

Frame: Companies exploring for or producing oil or gas in Colorado
Available: By lease; some data by company
Time Frame: Since pre 1950

Comparable Data

Oil and gas production of the fifty largest producers in Colorado.
Oil and gas production, number of producing wells and cumulative production by field and by operator.
Identification of exploratory wells for each field.
Transfer Pricing Report

Schedule E - Summary of Foreign Crude Trading
Activity by Country of Crude Origin

Frame: Refiners importing 500,000 bbls crude/month or importing
any quantity through an affiliated entity
Available: FEA Confidential
Time Frame: 1977

Comparable Data

Receipts of equity and buyback crude by foreign country may tie back
to FRS 5241 data on foreign production of crude oil.
FRS Form 5241 cont.

FEA - P-124M

Availability: 1
Comperability: 3

Domestic Crude Oil Purchasers Report
Schedules C & D

Frame: Universe of 250 purchasers of crude
Available: By company

Comparable Data - Crude Oil

Net working interest crude and condensate production by tier may be reconcilable with purchases from company production segments. Accounting for exchanges may be necessary to effect reconciliation.
Foreign Crude Oil Cost Report

Frame: All acquirers of 100 bpd or more crude oil
Available: FEA
Time Frame: Since 1976

Comparable Data

Volumes of exports from company's own production or purchases from others. Exports of company's own production should be reconcilable to exports after accounting for volumes in storage.
FRS Form 5241 cont.

FPC-2  
Availability:  1
Comparability:  1

Annual Report for Natural Gas Companies

Frame:  Natural gas companies (producers, retailers, utilities)
Available:  FERC
Time Frame:  Since 1961

Comparable Data

Reserve quantities and changes in reserve quantities.
Number of gas and oil wells.
Gas production statistics.
Exploration and Development Activity

Population:  
Universe  
Natural Gas Companies  
with interstage gas $\geq 250$ cf/Year  
Domestic

Available:  
By Company

Time Frame:  
1970 - 1973 (Lower 48)  
1974 - all

Comparable Data

Lists drilling statistics covering number of wells and footage by development and exploration and whether oil, gas or dry wells all on a net basis.

Should correspond with domestic data on FRS 5241 with the possibility of adjustment for wells in progress.

Productive and non-productive acreage data should be reconcilable to net undeveloped and developed acreage.

Separates Lower 48 from Alaska.

Domestic data only.
FRS Form 5241 cont.

FPC-64 - Schedule 3

Availability: 1
Comparability: 1

Production, Revenue, Royalty
and Productivity Data

Population: Universe
Natural gas producers
with interstate sales ≥ 250 mmcf/Year

Available: By company
Time Frame: 1974 on for most data

Comparable Data

Net working interest production and revenue for gas, lease
condensate and crude oil.

Gas data should be similar to data on FRS 5241 for company net
working interest production.

Liquids data should be reconcilable to company working interest
production.

Separates Lower 48 from Alaska.

Domestic only.
FRS Form 5241 cont.

Availability: 4
Comparability: 1

Illinois Petroleum

Frame: Operations in Illinois Oil & Gas Fields
Available: By field
Time Frame: Since pre 1949

Comparable Data

Drilling statistics by type of well and by field. New acreage, field revivals and abandonments, production by field. Cumulative production by field.
Kansas Geological Survey
Oil and Gas Production in Kansas

Frame: All producing fields in Kansas
Available: By field and by producing zones
Time Frame: Since at least 1944

Comparable Data

Number of producing wells, producing acreage, production volumes and wells abandoned during the year for each field in the state.
FRS Form 5241 cont.

U.S. Bureau of Mines

Availability: 3
Comparability: 1

Minerals Yearbook

Frame: Oil and gas producing, transportation and refining companies
Available: Reports based on various geographic breakdowns
Time Frame: Since Pre 1960

Comparable Data

U.S. offshore leases and bonus paid. Producing oil wells (Table 10) and well completions by well type (Table 9). Production in leading fields, by state and by month (Table 11).
Montana: Oil and Gas Annual Review

Frame: Exploration, production and refining data for Montana operations
Available: Data by field and in some cases by company
Time Frame: Since 1956

Comparable Data

Production, cumulative production, current drilling activity, acreage and number of wells for each field in the state. Average prices for oil production by field. Gas wells, oil wells, and dry wells are reported on a summary basis for five years.
National Stripper Well Survey

Frame: Stripper well data from various state agencies or other sources
Available: By state
Time Frame: Since 1968 at least

Comparable Data

Number of stripper wells, annual production from stripper wells, stripper well abandonments reserves represented by stripper production including primary and secondary recovery.
Oil and Gas in Australia

Frame: Oil and gas operations in Australia
Available: Some data by company, most by field or by country
Time Frame: 1965, 1970 and 1976

Comparable Data

Production, exploration, refining and marketing statistics for Australia. Data are relatively sketchy. Identification of specific refineries, capacities and ownership is provided.
OPEC Annual Review and Record

Frame: Survey of worldwide petroleum activities
Available: Subdivided by country (in some cases)
Time Frame: Since before 1970

Comparable Data

OPEC crude oil production by country.
Discoveries, drilling activities, concession agreements and similar events for each member country and the affected U.S. petroleum company.
FRS Form 5241 cont.

Availability: 4
Comparability: 1

Pacific Oil World
Annual Review

Frame: Reported discoveries in California, Alaska
Available: Details of discoveries by field
Time Frame: ?

Comparable Data

New field discoveries with maps, drilling data, operator and owner names.
Peru - Annual Report of Petroleum Statistics

Frame: Companies operating in Peru
Available: Most data reported by company
Time Frame: Pre 1960

Comparable Data

Production of oil and gas in Peru, by field, and by company.
Distribution of natural gas and production of natural gasoline and natural gas liquids by company.
FRS Form 5241 cont.

SEC Form 10-K (Required)  
Availability: 1  
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79 optional disclosures go back a number of years

Comparable Data

Net working interest production for liquids and natural gas by domestic and foreign areas is required by FASB Standard 19.

Gross and net wells, drilling footage, and acreage by geographic area similar to the categories in FRS 5241 are required by SEC Release 33-5967 [17 CFR Part 229].

Wells drilled must be further subdivided into exploratory and development wells as defined in SEC Release 33-5967.

In-progress drilling activity must be disclosed as of the report date.
Texas Railroad Commission Annual Report

Frame: Exploration, production, transportation and refining activities in Texas
Available: By Texas RR Commission District
Time Frame: Since before 1960

Comparable Data

Annual production of gas, oil and natural gas liquids by county, number of well completions, drilling activity including oil and gas discoveries and dry wells by district.
**Schedule G.2**  
**FRS Form 5242: Petroleum Refining Statistics**

| **NUMBER OF REFINERIES:** |  | **OF OTHERS** |  |
|---------------------------|-------------------|-------------------|
| WHOLLY OWNED |  | AT OTHERS' REFINERIES (FOR OWN ACCOUNT): |  |
| PARTIALLY OWNED |  | MOTOR GASOLINE: |  |
| TOTAL |  | LEADED |  |
|  |  | UNLEADED |  |
|  |  | TOTAL |  |
|  |  | DISTILLATE FUELS |  |
|  |  | RESIDUAL FUELS |  |
|  |  | OTHER REFINED PRODUCTS |  |
|  |  | TOTAL |  |

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<tr>
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<th><strong>TOTAL (LINES 14.00, 21.00 &amp; 28.00):</strong></th>
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<td>AT OWN REFINERIES (FOR OWN ACCOUNT):</td>
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<tr>
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<td>MOTOR GASOLINE:</td>
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<td>FOR OTHERS</td>
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<tr>
<td>BY OTHER REFINERIES</td>
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<tr>
<td>TOTAL</td>
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<td>TOTAL</td>
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<td>DISTILLATE FUELS</td>
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<td>OTHER REFINED PRODUCTS</td>
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<td>AT OWN REFINERIES (FOR OTHERS):</td>
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<td>MOTOR GASOLINE:</td>
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<td>TOTAL</td>
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<td>DISTILLATE FUELS</td>
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<tr>
<td>OTHER REFINED PRODUCTS</td>
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<tr>
<td>TOTAL</td>
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</tbody>
</table>

| **TOTAL REFINERY OUTPUT (MBD):** |  |  |
| AT OWN REFINERIES (FOR OWN ACCOUNT): |  |  |
| MOTOR GASOLINE: |  |  |
| LEADED |  |  |
| UNLEADED |  |  |
| TOTAL |  |  |
| DISTILLATE FUELS |  |  |
| RESIDUAL FUELS |  |  |
| OTHER REFINED PRODUCTS |  |  |
| TOTAL |  |  |
|  |  |  |
| AT OWN REFINERIES (FOR OTHERS): |  |  |
| MOTOR GASOLINE: |  |  |
| LEADED |  |  |
| UNLEADED |  |  |
| TOTAL |  |  |
| DISTILLATE FUELS |  |  |
| RESIDUAL FUELS |  |  |
| OTHER REFINED PRODUCTS |  |  |
| TOTAL |  |  |

| **CAPACITY (MBD):** |  |  |
| CAPACITY AT BEGINNING OF PERIOD |  |  |
| NEW REFINERIES |  |  |
| ADDITIONS TO EXISTING REFINERIES |  |  |
| PURCHASE OF CAPACITY EXISTING REFINERIES |  |  |
| REDUCTION OF CAPACITY |  |  |
| SALE |  |  |
| OTHER |  |  |
| CAPACITY AT END OF PERIOD |  |  |
| ANNOUNCED FUTURE CAPACITY CHANGES (WITHIN 5 YEARS): |  |  |
| NEW REFINERIES |  |  |
| ADDITIONS TO EXISTING REFINERIES |  |  |
| PURCHASE OF CAPACITY EXISTING REFINERIES |  |  |
| REDUCTIONS OF CAPACITY |  |  |

Columns: by geographic region
Alberta Energy Resources Conservation Board
Gas Plant Statistics

Frame: Gas plant in Alberta
Available: Data by plant
Time Frame: Since 1961

Comparable Data

Location, operator, capacity, plant inputs and yields of plant products for each gas plant in Alberta.
FRS Form 5242 cont.

API

Availability: 2
Comparability: 2

Basic Petroleum Data Book

Frame: Total data for countries and for some specific regions - e.g. offshore
Available: Industry subsets
Time Frame: Series date back to 1947 in the 1977 edition

Comparable Data

Refinery capacity by major world regions and crude runs - worldwide and U.S. refinery capacity by number, capacity and operating status.
U.S. crude runs by P.A.D. district and by domestic or foreign crude.
Colorado Oil and Gas Conservation Commission

Frame: Companies exploring for or producing oil or gas in Colorado
Available: By lease; some data by company
Time Frame: Since pre 1950

Comparable Data

Gas plant intake volumes and quantities of output.
CRUDE OIL ALLOCATION PROGRAM REFINER QUARTERLY REPORT

Frame: Every refiner
Available:
Time Frame: Since 1975

Comparable Data

For each refinery, data on crude runs to stills, for company account and for the account of others and operable capacity. Requires domestic data only.
Old Oil Entitlements Program
Refiners Monthly Report

Frame: All refiners
Available: 
Time Frame: 1976

Comparable Data

Crude runs to stills volume and cost data by sources (domestic or foreign) and by tier.
FRS Form 5242 cont.

FEA P-306

Availability: 1
Comparability: 2

**Refiner/Importer**
**Report by Petroleum Product Distribution**

Frame: N/A
Available: Inputs are public

**Comparable Data**

Volumes of sales of distillate and residual fuel oil, aviation gasoline, jet fuel and motor gasolines to marketers are provided. Data covers domestic sales only. The data would most likely need to be reconciled to conform to FRS 5242.
FRS Form 5242 cont.

FEA-P320

Availability: 1
Comparability: 1

Refinery Report

Frame: All refineries in the U.S. and Puerto Rico
Available: FEA, confidential

Comparable Data

Domestic refinery receipts in total, rather than by crude owner, should correspond to total receipts on FRS 5242.

Domestic refinery output by products in classifications similar to those on FRS 5242 are also provided. Aggregating data across all company owned refineries should support the data in 5242.

Capacity data for the beginning of each month are also reported.
Availability: 1
Comparability: 1

HPI Construction Boxscore

Frame: All processing plant and refinery construction in progress
Available: Data by plant. Plant operator and partners identified.
Time Frame: Semi-annual since pre 1970

Comparable Data

Refinery and gas plant construction, site identification, plant type, capacity, estimated cost, ownership, status, expected completion date.
FRS Form 5242 cont.

Montana Oil and Gas Annual Report

Frame: Refineries in Montana
Available: By company
Time Frame: Since 1956

Comparable Data

Barrels of crude oil refined in Montana by company. Includes imports of oil from other states as well as from Canada.
Offshore Oil and Gas Development
Southern California

Frame: Exploration, production, transportation and related operations of companies operating in California
Available: Extensive details of company operations
Time Frame: Produced for 1977

Comparable Data

Existing petroleum and related facilities in Southern California including refineries, onshore treatment and separation facilities, marine terminals, harbors and platforms. Data include capacities, operator name, ownership interest if co-owned and similar information.
Oil and Gas in Australia

Frame: Oil and gas operations in Australia
Available: By country
Time Frame: 1965, 1970 and 1976

Comparable Data

Production, exploration, refinery and marketing statistics for Australia. Data are relatively sketchy. Identification of specific refineries, capacities and ownership is provided.
FRS Form 5242 cont.

Availability: 9
Comparability: 1

OPEC Annual Review and Record

Frame: Survey of worldwide petroleum activities
Available: Subdivided by country (in some cases)
Time Frame: Since before 1970

Comparable Data

Estimates of refinery capacity and capital investments in the U.S., elsewhere in the world and by OPEC member country.
FRS Form 5242 cont.

Availability: 1
Comparability: 1

Peru - Annual Report of Petroleum Statistics

Frame: Companies operating in Peru
Available: Most data reported by company
Time Frame: Pre 1960

Comparable Data

Refinery production statistics and crude run data. Refinery capacity by refinery.
FRS Form 5242 cont.

SEC Form 10-K (Optional)

Availability: 1
Comparability: 1

Annual Report of Corporation

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79 optional disclosures go back a number of years

Comparable Data

Refinery operating data by line item and by geographic area may be reported in SEC Form 10-K and/or annual reports to stockholders. Reporting is, however, optional as is the reporting format.
Texas Railroad Commission Annual Report

Frame: Exploration, production, transportation and refining activities in Texas
Available: By Texas R.R. Commission District
Time Frame: Since before 1960

Comparable Data

Disposition of casinghead gas.
Numbers of gasoline plants, capacity, location and operator name.

Numbers of refineries, location, capacity and operator name.

Refinery runs to stills and blends by month.
Pipeline company reports of gas exported.
Gas plant receipts and production by product.
Comparable Data

Names of companies and principal subsidiaries operating in every foreign country.

Names of companies and their major subsidiaries affiliates and principal owners. Identifies nature of business and locations of operations.

North Sea license holders including joint venture membership.

Refinery capacity and product consumption by country.
<table>
<thead>
<tr>
<th>RETAIL MOTOR FUEL SALES THROUGH:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTLETS/COMMISSION AGENTS</td>
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<tr>
<td>LESSEE DEALERS</td>
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<tr>
<td>OPEN DEALERS</td>
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<table>
<thead>
<tr>
<th>ACQUISITIONS AND DISPOSITIONS OF RETAIL OUTLETS</th>
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<tbody>
<tr>
<td>OWNED BY OR UNDER LEASE TO REPORTING COMPANY:</td>
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<tr>
<td>NUMBER AT BEGINNING OF PERIOD</td>
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<tr>
<td>ACTIVITY DURING THE PERIOD:</td>
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<td>NEW CONSTRUCTION</td>
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<td>PURCHASES OF EXISTING OUTLETS</td>
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<td>SALES OF EXISTING OUTLETS</td>
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<td>NEWLY LEASED OUTLETS</td>
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<td>EXPIRED LEASES NOT RENEWED</td>
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<tr>
<td>NET RECLASSIFICATIONS</td>
</tr>
<tr>
<td>NUMBER AT END OF PERIOD</td>
</tr>
</tbody>
</table>

Columns: By size of outlet and active v. inactive
FRS Form 5243 cont.

EIA-8

Availability: 4
Comparability: 3

Retailer Motor Fuels Service Station Survey

Frame: Retail service stations
Available: EIA confidential
Time Frame: 1978 (?)

Comparable Data

Volume sales of gasoline and diesel fuels should follow similar trends to reported volumes on FRS 5243.
Petroleum Industry Report
for Product Prices

Frame: Refiners and gas processors; retailers and resellers with revenues from covered products of more than $50 million
Available: FEA confidential
Time Frame: 1975 or 1976

Comparable Data

Volumes of product sold by product. Trends should be similar to the total annual volume data on FRS 5243.
FRS Form 5243 cont.

FEA P-306

Availability: 1
Comparability: 1

Refiner/Importer Monthly Report
of Petroleum Product Distribution

Frame: Not disclosed
Available: By company
Time Frame: Since 1975 or 1976

Comparable Data

Provides data on sales to retail outlets by state. Information on number of retailers and volumes of sales are reported in categories similar to those on FRS 5243.

Data on outlets sold is not given directly but may be inferred from month-to-month changes in reported data.
Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Data on numbers of retail outlets, types of outlets and volume sales may be reported in Form 10-K depending on company policy. Disclosure format is also at the option of the company.
Schedule G.4
FRS Form 5244: Petroleum Transportation Statistics

<table>
<thead>
<tr>
<th>MARINE:</th>
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<tbody>
<tr>
<td>TANKERS:</td>
<td>CONSOLIDATED PIPELINES (100 PERCENT OWNED):</td>
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<td>OWNED (INCLUDING CAPITALIZED LEASES)</td>
<td>MILEAGE:</td>
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<tr>
<td></td>
<td>CRUDE/LIQUID ........................................</td>
</tr>
<tr>
<td></td>
<td>NATURAL GAS ..........................................</td>
</tr>
<tr>
<td></td>
<td>REFINED PRODUCT ......................................</td>
</tr>
<tr>
<td>CHARTERED/LEASED:</td>
<td>CAPACITY:</td>
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<tr>
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<td>CRUDE/LIQUID (MBD) ..................................</td>
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<tr>
<td></td>
<td>NATURAL GAS (MMCF/DAY) ................................</td>
</tr>
<tr>
<td></td>
<td>REFINED PRODUCT (MBD) ................................</td>
</tr>
<tr>
<td>TOTAL:</td>
<td>VOLUME TRANSPORTED FOR OWN ACCOUNT:</td>
</tr>
<tr>
<td></td>
<td>CRUDE/LIQUID (MB) ....................................</td>
</tr>
<tr>
<td></td>
<td>NATURAL GAS (MMCF) ...................................</td>
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<td>VLCC:</td>
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<td>REFINED PRODUCT (MBD) ................................</td>
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<td>SPECIALTY (LPG/LNG):</td>
<td>NET CAPACITY:</td>
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<td>CRUDE/LIQUID (MBD) ..................................</td>
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<td></td>
<td>NATURAL GAS (MMCF/DAY) ................................</td>
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<td></td>
<td>REFINED PRODUCT (MBD) ................................</td>
</tr>
<tr>
<td>OTHER TANKERS:</td>
<td>VOLUME TRANSPORTED FOR OWN ACCOUNT:</td>
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<tr>
<td></td>
<td>CRUDE/LIQUID (MB) ....................................</td>
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<td></td>
<td>NATURAL GAS (MMCF) ...................................</td>
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<td></td>
<td>REFINED PRODUCT (MB) ..................................</td>
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<td>TOTAL:</td>
<td>VOLUME TRANSPORTED FOR OTHERS:</td>
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<tr>
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<td>CRUDE/LIQUID (MB) ....................................</td>
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<td>NATURAL GAS (MMCF) ...................................</td>
</tr>
<tr>
<td></td>
<td>REFINED PRODUCT (MB) ..................................</td>
</tr>
</tbody>
</table>

Columns: Tankers: capacity; Pipelines: by regulated and nonregulated
Pipeline Products Report

Frame: All product pipelines
Available: FEA
Time Frame: Since 1976

Comparable Data

Volumes of products transported. The volumes are not subdivided by ownership of product nor into interstate/intrastate classification.
Transfer Pricing Report
Schedules B and (C): Imported Crude Obtained by Purchase (and by Exchange)

Frame: Refiners importing 500,000 bbls crude/month or importing any quantity through an affiliated entity
Available: Confidential by FEA
Time Frame: 1977-

Comparable Data

Petroleum receipts by vessel for imported crude should be reconcilable to tanker shipments on FRS 5244.
Transfer Pricing Report
Schedule D: Foreign Crude Petroleum Sales and Purchases Loaded During the Month

Frame: Refiners importing 500,000 bbls crude/month or importing any quantity through an affiliated entity

Available: Confidential by FEA
Time Frame: 1977-

Comparable Data

Shipments of crude from one country to another are reported in terms of total quantities. These shipments may be related to tanker shipment data on FRS 5244.
Minerals Yearbook

Frame: Oil and gas producing, transportation and refining companies
Available: Reports based on various geographic breakdowns
Time Frame: Since Pre 1960

Comparable Data

Receipts of crude by refineries in each state by transportation method - both domestic and foreign.

Inter PAP district movement of crude oil, unfinished and finished products by month for tankers, barges and pipeline.

Pipeline tariff rates.
Offshore Oil and Gas Development
Southern California

Frame: Exploration, production, transportation and related operations of companies operating in California
Available: Extensive details of company operations
Time Frame: Produced for 1977

Comparable Data

Existing petroleum and related facilities in Southern California including refineries, onshore treatment and separation facilities, marine terminals, harbors and platforms. Data include capacities, operator name, ownership interests if co-owned and similar information.
Petroleum Review - Oklahoma

Frame: Varies - covers Oklahoma operations. Conducts surveys on various activities
Available: Data usually presented on company activities
Time Frame: Depends on topic

Comparable Data

November 1978 - Comprehensive survey of inland pipelines. Includes ownership, capacity, product, length and similar data.

February 1978 - Transportation statistics for refined products.

June 1978 - Survey of marine operations profits for major companies.
FRS Form 5244 cont.

SEC Form 10-K (Optional)  
Availability: 1  
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce  
Available: By company  
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Data on petroleum transportation may be disclosed in corporate reports and may be in a format similar to that in FRS Form 5244. Examination of company financial reports on Form 10-K is required to determine if this disclosure has been made for a specific company.
FRS Form 5244 cont.

Availability: 4
Comparability: 2

Walter Skinner's Yearbook

Frame: World survey
Available: Varies - some data by companies
Time Frame: Since pre 1970

Comparable Data

Tanker tonnage by country.
## Schedule G.5
### FRS Form 5245: Petroleum Purchases, Sales and Exchanges

<table>
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<th>EXCHANGES WITH:</th>
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<td><strong>GROUP I COMPANIES:</strong></td>
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<td>PRODUCT FOR PRODUCT .....................................</td>
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<td><strong>GROUP II COMPANIES:</strong></td>
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<td>CRUDE FOR CRUDE ...........................................</td>
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<td>PRODUCT FOR PRODUCT .....................................</td>
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<td>PRODUCT FOR PRODUCT .....................................</td>
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<td><strong>TOTAL</strong> ..................................................</td>
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<table>
<thead>
<tr>
<th>PURCHASE/SALE AGREEMENTS WITH:</th>
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<tr>
<td><strong>GROUP I COMPANIES:</strong></td>
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<td>CRUDE FOR CRUDE ...........................................</td>
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<td>CRUDE FOR PRODUCT ........................................</td>
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<td>PRODUCT FOR PRODUCT ..............</td>
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<td><strong>GROUP II COMPANIES:</strong></td>
</tr>
<tr>
<td>CRUDE FOR CRUDE ...........................................</td>
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<td>CRUDE FOR PRODUCT ........................................</td>
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<td>PRODUCT FOR PRODUCT ..............</td>
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<tr>
<td><strong>OTHERS:</strong></td>
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<td>CRUDE FOR CRUDE ...........................................</td>
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<table>
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</tr>
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<td>PRODUCT ..............................................</td>
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<td><strong>GROUP II COMPANIES:</strong></td>
</tr>
<tr>
<td>CRUDE .................................................</td>
</tr>
<tr>
<td>PRODUCT ..............................................</td>
</tr>
</tbody>
</table>

Columns: barrels exchanged; for purchases also prices paid
Transfer Pricing Report

Schedule C: Imported Crude Petroleum Obtained Through Exchanges

Frame: Refiners importing 500,000 bbls crude/month or importing any quantity through an affiliated entity
Available: Confidential by FEA
Time Frame: 1977

Comparable Data

Exchanges and other transfers of foreign crude in both volumes and dollars. May be related to exchanges reported on FRS although not broken down by company.
FRS Form 5245 cont.

FEA-P124-M

Availability: 1
Comparability: 2

**Domestic Crude Oil First Purchasers**
*Report - Producers Report*
*Other Purchaser/Sellers*

Frame: All producers of crude oil

Schedule C:
Reports the producer/operator for all purchases of crude oil.
The first-purchaser quantity and dollars of reported receipts should be reconcilable to total receipts on Schedule C.

Schedule D:
Other sales and exchanges on this schedule should be reconcilable to the exchanges called for in Page 1 of FRS 5245 with respect to quantities. Dollar amounts may be reconcilable with data on Page 2 of FRS 5245 in conjunction with Schedule C data.
Domestic Crude Oil Purchasers Report

Schedule D: Other Purchases, Additions, Sales Exchanges and REDuctions

Frame: 250 crude oil purchasers
Available: By company

Comparable Data

Exchanges of crude for crude or product by tier in both quantities and dollars are reported by individual purchaser/seller for each respondent. Data on FRS 5245 should be traceable to FEA-P124-M. Exchanges on FRS are grouped by type of company so that reclassifications would be required to reconcile the two reports.
Refiner Report of Buy/Sell
Crude Oil Transactions

Frame: All refiners
Available: FEA
Time Frame: Part of mandatory allocation program

Comparable Data

Volume purchases and sales of crude by or to refiners.
### Schedule G.6
FRS Form 5246: Proved Petroleum Reserves

<table>
<thead>
<tr>
<th>CRUDE AND CONDENSATE RESERVES (MB):</th>
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<tr>
<td><strong>NET WORKING INTEREST RESERVES:</strong></td>
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| BEGINNING OF PERIOD

<table>
<thead>
<tr>
<th>CHANGES DUE TO:</th>
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<tbody>
<tr>
<td>REVISIONS OF PREVIOUS ESTIMATES</td>
</tr>
<tr>
<td>IMPROVED RECOVERY (SEE LINE 13.00, BELOW)</td>
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<tr>
<td>PURCHASES OF MINERALS-IN-PLACE</td>
</tr>
<tr>
<td>EXTENSIONS, DISCOVERIES, OTHER ADDITIONS</td>
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<tr>
<td>PRODUCTION</td>
</tr>
<tr>
<td>SALES OF MINERALS-IN-PLACE</td>
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<table>
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</thead>
<tbody>
<tr>
<td>GROSS WORKING INTEREST RESERVES</td>
</tr>
<tr>
<td>NON-WORKING INTEREST (ROYALTY) RESERVES</td>
</tr>
<tr>
<td>PROPORTIONAL INTEREST IN INVESTEE RESERVES</td>
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<td>FOREIGN ACCESS</td>
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<table>
<thead>
<tr>
<th>NATURAL GAS RESERVES (MMCF):</th>
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<td><strong>NET WORKING INTEREST RESERVES:</strong></td>
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| BEGINNING OF PERIOD

<table>
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<tr>
<th>CHANGES DUE TO:</th>
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<tr>
<td>REVISIONS OF PREVIOUS ESTIMATES</td>
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<td>IMPROVED RECOVERY</td>
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<td>PURCHASES OF MINERALS-IN-PLACE</td>
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<td>EXTENSIONS, DISCOVERIES, OTHER ADDITIONS</td>
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<td>PRODUCTION</td>
</tr>
<tr>
<td>SALES OF MINERALS-IN-PLACE</td>
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</thead>
<tbody>
<tr>
<td>GROSS WORKING INTEREST RESERVES</td>
</tr>
<tr>
<td>NON-WORKING INTEREST (ROYALTY) RESERVES</td>
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| BEGINNING OF PERIOD

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<tr>
<td>REVISIONS OF PREVIOUS ESTIMATES</td>
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<td>GROSS WORKING INTEREST RESERVES</td>
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<td>NON-WORKING INTEREST (ROYALTY) RESERVES</td>
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<table>
<thead>
<tr>
<th>NATURAL GAS LIQUID CONTRACT RESERVES (MB):</th>
</tr>
</thead>
</table>

Columns: Domestic by Alaska and Lower 48, offshore and onshore; Foreign by geographic region.
Alberta Energy Resources Conservation Board
Summary of Energy Reserves and Reservoir Performance Charts

Frame: Fields in Alberta
Time Frame: Since 1962

Comparable Data

Estimates of proved reserves, performance data by pool, number of producing wells, production and cumulative production. Also, gas fields, oil projects, and gas projects. Apparently confidentiality of company data is severely restricted so that substantial data on oil and gas drilling and operations is in the public domain.
API
Availability: 9
Comparability: 2

Basic Petroleum Data Book

Frame: Total data for countries and for some specific regions - e.g. offshore
Available: Industry subsets
Time Frame: Series data back to 1947 in the 1977 edition

Comparable Data

Estimated proved reserves for the U.S., Canada and other geographic regions of the world.
Proved reserve estimates of the twenty largest producing nations.
API/AAPG/CPA Reserves Report

Frame: Survey of fields in the U.S. and Canada
Available: Data by state and, in some cases, by producing regions within states
Time Frame: Since 1946

Comparable Data

Proved reserves and changes in proved reserves by state for oil, natural gas and condensate.

Note: The attached Appendix A from the API, et al Report gives the sources of information used by the API Reserves Committee in deriving their estimates.
Arkansas Oil and Gas Commission
Annual Report

Frame: Exploration, producting and refining operations in Arkansas
Available: For the state as a whole
Time Frame: Since 1930

Comparable Date

Proved reserve estimates for the state.
California: Annual Report of the State Supervisor of Oil and Gas

Frame: Production and exploration activities in California
Available: Some data by field, county, operator
Time Frame: Since 1914

Comparable Data

Estimated oil and gas reserves by field for each field in the state.
Natural Gas Companies Annual Report of Proved Reserves

Frame: Natural gas companies as defined
Available: FERC, public
Time Frame: 1974 - 1976

Comparable Data

Proved reserves of natural gas
Production, Revenue, Royalty and Productivity Data

Population: Universe
Natural gas producers
with interstate sales ≥250 mmcf/Year

Available: By company
Time Frame: Lower 48: 1965 on
Alaska: 1974 on

Comparable Data

Changes in reserves of associated gas may be related to changes in gas reserves on FRS 5246 although non-associated gas is apparently not included in FPC-64 - Schedule 3.
FRS Form 5246 cont.

Availability: 4
Comparability: 1

**Illinois Petroleum**

Frame: Operations in Illinois Oil and Gas Fields
Available: By field
Time Frame: Since pre 1949

**Comparable Data**

Reserve estimates for each field in Illinois.
FRS Form 5246 cont.

U.S. Bureau of Mines

Minerals Yearbook

Frame: Oil and gas producing, transportation and refining companies
Available: Reports based on various geographic breakdowns
Time Frame: Since Pre 1960

Comparable Data

Reserve estimates for the largest U.S. oil fields.
FRS Form 5246 cont.

Availability: 3
Comparability: 3

**National Stripper Well Survey**

Frame: Stripper well data from various state agencies or other sources
Available: By state
Time Frame: Since 1968 at least

**Comparable Data**

Reserves represented by stripper production including reserves attributable to primary and secondary recovery.
FRS Form 5246 cont.

Availability: 1
Comparability: 1

Offshore Oil and Gas Development
Southern California

Frame: Exploration, production, transportation and related operations of companies operating in California
Available: Extensive details of company operations
Time Frame: Produced for 1977

Comparable Data

Santa Barbara channel bases and estimated reserves.
OPEC Annual Review and Record

Frame: Survey of worldwide petroleum activities
Available: Subdivided by country (in some cases)
Time Frame: Since before 1970

Comparable Data

Estimates of worldwide proved oil and gas reserves by country.
FRS Form 5246 cont.

SEC Form 10-K

Availability: 1
Comparability: 1

Annual Report of Corporations

Frame: All publicly held corporations trading or selling securities in excess of $1,000,000 in interstate commerce
Available: By company
Time Frame: Required disclosures beginning 12/25/79; optional disclosures go back a number of years

Comparable Data

Reserve quantities and changes in such quantities in categories identical to those on FRS 5246 are required for both oil and gas. Subdivisions for total U.S. and for defined foreign areas are required. Breakdowns on this dimension may not be the same as those on FRS 5246.
Texas Railroad Commission Annual Report

Frame: Exploration, production, transportation and refining activities in Texas
Available: By Texas RR Commission District
Time Frame: Since before 1960

Comparable Data

Estimates of proved oil and gas reserves.
IV. APPENDICES

Appendix A - Part I

Federal Reports Surveyed

Bureau of the Census (BOC)
Form: MA-100; Annual Survey of Manufacturers

Bureau of Mines (BOM)
Minerals Year Book
International Petroleum Quarterly

Federal Trade Commission (FTC)
Form: LB; Line of Business Form

Internal Revenue Service (IRS)
Forms: 1120, 1120-S; U.S. Corporation Tax Return

National Science Foundation (NSF)
Form: RD-1; Survey of Industrial Research and Development

Securities and Exchange Commission (SEC)
Form: 10-K (Required and Optional); Annual Report of Corporations
Department of Energy (DOE)

Energy Information Administration (EIA)
Forms: EIA-8, EIA-9

formerly Federal Energy Administration (FEA) - now EIA or ERA

Federal Power Commission (FPC)
Forms: 2, 11, 40, 64
Other Federal Reports not covered

Bureau of the Census (BOC)

Form: MA-13K; Annual Survey of Oil and Gas

Parallel information between the above report and FRS is not covered here but is surveyed in the following EIA report:


Census of Wholesale Trade (SIC Major Groups 50 to 51)

Form: CB-50L; Petroleum Business, Bulk Stations, Terminals

Census of Manufacturing

Forms: MC-29A; Petroleum Products
       MC-29B; Asphalt and Tar Roofing, Siding and Paving Products

Census of Mineral Industries

Forms: MC-13A; Oil and Gas Field Operations
       MC-(Tx); Oil and Gas Field Operations - Texas
       MC-(La); Oil and Gas Field Operations - Louisiana
       MC-(Ca); Oil and Gas Field Operations - California
       MC-(NM); Oil and Gas Field Operations - New Mexico
       MC-13B; Natural Gas Liquids
       MC-13C; Oil and Gas Field Services

Census of Retail Trade (SIC Major Groups 52 to 59)

Forms: CB-55D; Gasoline Service Stations, Other Automotive
       CB-59E; Fuel
Appendix A - Part II

Non-Federal Sources of Comparable Data
(Sources included in main text denoted by asterisk)

States

Alaska

Annual Report; Mines & Petroleum Bulletin
Division of Mines & Minerals
Department of Natural Resources
Box 1391
Juneau, AK

Alaska Pipeline Commission - Annual Report
12th Floor, The MacKay Building
338 Denali Street
Anchorage, AK 99501

Arkansas

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(Contents listed in Appendix D)
Appendix B: Outline of Annual Review
Conservation Committee of California Oil Producers

OUTLINE OF CONTENTS

GENERAL STATISTICS AND REVIEW

SUMMARY AND GENERAL COMMENTS ON 1975 ACTIVITIES

I. CRUDE OIL PRODUCTION
   A. Production Comparisons
      (1) State Average
      (2) Ten Fields of Largest Production
      (3) Yearly California and U. S. Production
      (4) Comparison of Production between Major and Independent Companies
      (5) Change in Productive Well Count
      (6) Crude Reserves
   B. Changes in Field Oil Production
      (1) Fields with Largest Increases in Production from 1974 to 1975
      (2) Fields with Largest Decreases in Production (12 months interval)
   C. Crude Imports (includes Total Supply - District V)
   D. California Offshore Production
   E. Production and Number of Wells Compared by Gravity Groups
   F. Distribution of Production According to Well Size
   G. Observance of Committee Recommendations
   H. Decline in Production
   I. Shut-in Production
   J. Long Term Oil Production Trend

II. CONSERVATION
   A. Field Engineering Committees
   B. Maximum Efficient Rate and Pool Classification
   C. Problems Acted Upon
      (1) Maximum Efficient Rates
      (2) Pool Classifications
         (a) Changes from Class I to Class II
         (b) Changes from Class III to Class II
      (3) New Fields, New Pools and New Development Listed and Classified
   D. Intrapool Distribution Formulae
   E. State Division of Oil and Gas Approval of Committee Recommendations
   F. Injection Projects
      (1) Gas and/or Water Injection Projects
         (a) Gas Injection Projects
         (b) Water Injection Projects
         (c) Summary of gas and/or water injection projects
            1. Gas and Water Injection Projects included in 1975
               a. New and Resumed Gas Injection Projects
               b. New and Resumed Water Injection Projects
            2. Gas and Water Injection Projects suspended in 1975
               a. Gas Injection Projects
               b. Water Injection Projects
   G. LPG Injection
   H. Heavy Oil Recovery
      (1) Well Stimulation
      (2) Thermal Methods
   I. Natural Gas
      (1) Underground Storage Projects
   J. Unitized Operations in California
   K. Conservation Committee
      (1) Organization
      (2) Officers
      (3) Meetings
      (4) Engineering Board
      (5) Administration
      (6) Fiscal Affairs
      (7) Office Matters
      (8) Publications
APPENDIX B (continued)

OUTLINE OF CONTENTS

GENERAL STATISTICS AND REVIEW (cont'd)

III. GEOLOGICAL
   A. Geological Formation Charts
   B. Index to Oil Field Correlation Charts
   C. Correlation Charts by Districts by Pools

IV. OIL DEVELOPMENT AND NEW COMPLETIONS
   A. General
   B. Development Drilling
   C. Annual Development Drilling and Production in New Fields and Pools
      Discovered since January 1946 - Comparative Study

V. EXPLORATORY DRILLING
   A. General
   B. Federal O.C.S. Leases
   C. New Discoveries
   D. Exploratory Drilling Statistics
   E. Six Individual New Oil Field and Pool Discoveries during 1975 with
      Maps and Completion Data

VI. NATURAL GAS SITUATION
   A. Gas Reserves
   B. Development and Exploration in Dry Gas Fields
      (1) Development
      (2) Exploration
   C. Injected Gas and Field Use
   D. Production
      (1) Oil Field Gas Production
      (2) Dry Gas Production
   E. Utilization
   F. Natural Gas Imports from Out-of-State and Canada
   G. Natural Gas from the Federal Offshore Area
   H. Four Individual New Gas Field and Formation Discoveries during 1975
      with Maps and Completion Data
GENERAL STATISTICS AND REVIEW

Southern California Oil and Gas Fields

I. CRUDE OIL PRODUCTION

1. California Crude Oil Production
2. California Annual Crude Oil Production - By Years
3. California Annual Crude Oil Production - By Regions
4. California Annual Plant Condensate Production
5. California Total - Crude Oil - Monthly - 1975
6. California Total - Condensate - Monthly - 1975
7. Annual Comparison - Production and Drilling
9. Number of Producing Wells and Crude Oil Production - Years 1974 and 1975
10. Ten Fields of Largest Production - Table
11. Yearly California and U.S. Production - Table
12. California Production - 7 Major Oil Companies and - Independent Oil Companies
13. California Production - 7 Major Oil Companies
14. Total Operations - California Crude Oil Production - Majors and Independents - Yearly
15. Participation in Unit Operations
16. List of Unit Operations and Joint Operations included in Tables VIII and IX for 1973
17. Change in Productive Well Count - Yearly - Table
18. Status of California Oil Wells - Year End - Table
19. Proven Reserves - January 1, 1975 - U.S. and California (Prior Years)
20. Producing Oil Wells and Crude Reserves - U.S. and California
21. New Oil Reserves Discovered and Developed vs. Number of Oil Wells Completed
22. Proven Crude Reserves per Well: Ratio of New Reserves added to Number of New Oil Wells Completed - and - Ratio of Reserves to Production - California
23. Change in Crude Production for Three Producing Regions
24. Fields with Largest Increases in Production
25. Fields with Largest Decreases in Production
26. Foreign Imports - Crude Oil & Finished Products - U.S. Bureau of Mines - District V
27. State of California Offshore Production - Year 1975 and Cumulative
28. District V Production as Percentage of Total Petroleum Supply
29. Petroleum Supply - District No. Five - By Years
30. Petroleum Supply - District V - By Months
31. Foreign Petroleum Imports into District V
32. Receipts from Other Districts in U.S. - District V
33. Petroleum Supply - District V
34. Annual Production - Light and Heavy Crude - Table
35. Gravity Distribution of Crude Production in California - January 1976
36. Volume of Crude Produced in California by Gravities
37. Number of Wells Classified According to Size - December 1975
38. Distribution of California Production and Wells according to Group of Wells by Rates - December 1975
39. Number of Producing wells by Oil Fields According to Size - B/D per Well Groups - California - December 1975
40. Annual Totals of Scheduled Pools - Table
41. Record of Scheduled Pools - Monthly
42. Scheduled Production vs. Actual Production
43. Comparison of Per Cent Decline - Table
44. California - Annual to Cumulative Crude Production Ratio - Reserves and Ultimate
45. California Crude Oil Production - California - 75 years
46. California Cumulative Oil Production On-Shore - Rate/Cumulative Ratio
47. California Crude Oil Production - Rate/Cumulative Ratio

II. CONSERVATION

1. Number of Pool MER Studies Made - January 1946 through December 1975
2. Classification of Class I Pools as of January 1976 - Table
3. Historical Classification of Pools - Annual Comparison - Table
4. Annual Count of Changes in Pool Classification - Table
5. Active Gas and Water Injection Projects - December 1975 - by Regions
6. Oil, Gas, and Water Injection Operations Summary - Tables
7. Gas Injection Projects - December 1975 - Table
8. Water Injection Projects - December 1975 - Table
9. California - Principal Fields - Thermal Increase in Crude Production
10. California Thermal Stimulation (incl. In-Situ)
11. Steam and Hot Water Injection Statistics - 1975 (includes cyclic and flood projects)
12. California Water Injection
13. Water Injection Projects Active and Suspended - 1975
15. Calendar of Meeting Dates
16. Contribution Rate Changes - January 1936 to December 31, 1975
17. Diagrammatic Organization - Chart
APPENDIX B (continued)

INDEX OF TABLES AND CHARTS

GENERAL STATISTICS AND REVIEW (cont'd)

III. GEOLOGICAL

A. Geological Formation Charts
   - Generalized Stratigraphic Table - California - by Frank B. Carter
   - Sacramento Valley - Cenozoic and Mesozoic (Gas Fields) - by Eugene F. Reid
   - Ventura Basin - by W. H. Holman
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B. Index to Oil Field Correlation Charts

C. Correlation Charts
   (a) Oil Fields
      - San Joaquin Valley Region
         - Westside - North Area
         - Westside - Border Area
         - North Central
         - South Central - West Area
         - South Central - East Area
         - Eastside and Southeast
      - Guyama Group
      - Coastal Region
         - Northern Counties
         - Salinas Valley District
         - Santa Maria and San Luis Obispo Districts
         - Ventura Basin - Western Part
         - Ventura Basin - Eastern Part
      - Los Angeles Region
         - Sacramento Valley Region
   (b) Gas Fields
      - Northern Coastal Area
      - Southern Valley Region
      - Northern and Western San Joaquin Valley
      - Northern Valley Region

OIL DEVELOPMENTS AND NEW COMPLETIONS

1. Completed Well Footage - Table
2. Areal Distribution of New Well Completions - by Regions - Table
3. Annual New Well Completions in California Compared to U.S. - Table
4. Light and Heavy Crude - New Wells Completed Monthly 1975 and Initial Rates - Table
5. Number of New Well Completions Divided Between Light and Heavy Crude - Table
6. Fields with Most Active Drilling - 1975 - Table
7. California New Development - Annual Fields
8. Number of Oil Wall Completions, and Producing Wells - Major and Larger Independent Companies - 1974 vs. 1975
9. California Oil Well Completions and Initial Rates - Monthly
10. California - New Wall Completions and Initial Rates
11. California - Well Completions - Oil and Gas Fields
12. Newly Discovered Oil Fields and/or Pools Grouped by Year of Discovery for 30 years - 1946 vs. 1975, Inclusive
13. California Production of Newly Discovered Fields and Pools by Yearly Groups
14. Newly Discovered Fields and Pools for 30 years - Number of Wells Producing at December
15. Newly Discovered Fields and Pools for 30 years - Production B/D at December
17. New Wells Drilled and Initial Production in Newly Discovered Fields and Pools - Groups 1946-1975, inclusive - By Years
18. Drilling and Production for New Field and Pool Discoveries and Old Pools Accumulated since 1946
19. New Fields and Pools Discovered since 1946 with December 1975 Production over 2000,000 B/D
20. California - New Oil Field and Pool Discoveries found after January 1, 1946 - Production and Drilling
22. New Well Completions and Initial Production - 1974 and 1975
GENERAL STATISTICS AND REVIEW (cont'd)

EXPLORATION AND OIL DISCOVERIES

State Tideland Oil and Gas Leases - by State Lands Commission
California - Santa Barbara Channel
Exploratory Drilling Statistics - 1965 through 1975 - Table
Exploratory and Development Drilling - Table
New Field Wildcats - U. S. and California - Yearly
Exploratory Wells and Footage - U. S. and California - Yearly
Exploratory Dry Holes Drilled vs. New Finds - California and U. S. - Oil and Gas Wells
Summary of Exploratory Well Completions by all Operators in California In 1975
Geothermal prospecting Area from Canada to Mexico - 1975
Location of 1975 Exploratory Wells in Southern Part of California - Map
Location of 1975 Exploratory Wells in Northern Part of California - Map
California Additions to Oil Reserves vs. Production - 1960 to 1975, Inclusive - Chart
California Trends in Exploratory Drilling & Additions to Oil Reserves - 1960 to 1975
Distribution of Dry Hole Footage - By Operators
Distribution of Dry Hole Footage and Number of Wells - By District and County
New Oil Fields and Pools Discovered during 1975
California Oil Field and Pool Names - January 1, 1976

NATURAL GAS SITUATION

Northern California Dry Gas Fields
Natural Gas Reserves - Table
Ultimate Gas Recovery - Table
Injected Gas and Field Use - Table
Percentage of Total Net Residue Withdrawals from Formation - Table
Natural Gas Used for Repressuring and/or Pressure Maintenance in Oil Fields
Yearly Natural Gas Production Statistics
Net Cumulative Oilwell Gas Withdrawals from Formation
Summary of Dry Gas Production
Imports of Out-of-State Gas into California
Natural Gas Production and Utilization - All Classifications
Natural Gas Summary
Natural Gas Withdrawals and Utilization
Oil Well Gas Production and Disposition
Oil Well Gas Production and Disposition - State Total
Production and Distribution of California Natural Gas
New Dry Gas Discoveries in California - 1975
California Gas Field and Pool Names - January 1 1976
Gas Production from Dry Gas Fields - Year 1975
APPENDIX C: Venezuela Petroleum Reports

PETROLEO Y OTROS DATOS ESTADISTICOS

INDEX

I GENERALITIES, LAWS, DECREES, REGULATIONS, RESOLUTIONS.

II PETROLEUM AND THE ECONOMY.

Oil and development, 1971-1975
Contribution of the Petroleum Sector to Gross National Product, 1968-1975
Gross National Product and Exports, 1965-1975
Ordinary Fiscal Income, 1965-1975
Ordinary Fiscal Income, 1960-1975 (Graph)
Sectorial and Factorial distribution of National Income, 1973-1975
Gross National Product by Economic Activities, 1968-1975
Volume of Exports, 1965-1975
Value of Exports, 1965-1975 (Graph)
Value of Exports, 1965-1975
Volume and Value Imports, 1965-1975
Distribution of direct foreign exchange income, 1965-1975
Average value and retained value of petroleum and iron exports, 1968-1975
Summary of international transactions, 1969-1975
International transactions: Petroleum sector, 1965-1975
Foreign investment by economic sectors, 1968-1975
Energy and development, 1965-1975

III OIL IN VENEZUELA

A. GENERAL ACTIVITIES

Development of the oil activities, 1917-1975
Development of the oil activities, 1965-1975 (Graph)
Statistics of refined products in the country, 1965-1975
Statistics of refined products in the country, by products, 1965-1975
Petroleum statistics, 1965-1975

B. CONCESSIONS AND EXPLORATION

Sedimentary basins, (Map)
Proven areas in relation to the total concessions and assigned areas, 1965-1975
Concessions and assigned areas of hydrocarbons, 1955-1975, (Graph)
Proven areas in relation to the total concessions and assigned areas by company, 1975
Concession areas and assigned exploration areas of hydrocarbons by company, 1965-1975
Exploration and exploratory drilling, 1965-1975
Expiration of concessions active, by company, at 31-12-1975
Expiration of concessions active, by states, at 31-12-1975

C. DRILLING

Completed wells by type, 1965-1975
Completed wells by type, Maracaibo Jurisdiction, 1965-1975
Completed wells by type, Barcelona Jurisdiction, 1965-1975
Completed wells by type, Maturin Jurisdiction, 1965-1975
Completed wells by type, Barinas Jurisdiction, 1965-1975
Reconditioned wells, suspended and drilling, 1965-1975
General State of crude oil wells, end of year, 31-12-1965-1975
Oil and gas wells in production, by jurisdiction, end of year, 31-12-1965-1975
General state of gas and injection wells, end of year, 31-12-1965-1975
Cost and average drilling depth of completed wells, by type, 1965-1975

D. RESERVES AND PRODUCTION

Proven crude oil reserves, 1965-1975
Cumulative production and crude oil reserves, 1917-1975
Production and reserves of crude oil, 1960-1975 (Graph)
Crude oil production, 1917-1975
Crude oil production, 1960-1975 (Graph)
Crude oil production by month, 1965-1975
Crude oil production by month, 1972-1975 (Graph)
APPENDIX C (continued)

D. RESERVES AND PRODUCTION.

- Quarterly crude oil production, 1965-1975
- Crude oil production by quarter, 1965-1975
- Crude oil production by company, 1965-1975
- Crude oil production by major companies, 1950-1975 (Graph)
- Crude oil production by states, 1965-1975
- Crude oil production by basins, 1965-1975
- Crude oil production by major fields (Maracaibo Basin), 1965-1975
- Crude oil production by major field (Eastern Basin), 1965-1975
- Crude oil production by field (Apuire and Falcon Basins), 1965-1975
- Crude oil production by gravity, 1965-1975
- Crude oil production by gravity ranges, 1965-1975
- Production of liquid hydrocarbons, 1965-1975
- Balance of crude oil by jurisdiction, end of year, 31-12-1975

E. REFINING.

- Refineries and oil basins, 1975 (Map)
- Refining capacity by companies, end of year, 31-12-1965-1975 (Operation Day)
- Refining capacity by company, end of year, 31-12-1965-1975 (Calendar Day)
- Crude runs to stills and product output, 1965-1975
- Refining capacity and crude runs to stills, 1955-1975 (Graph)
- Crude runs to stills by refineries, 1965-1975
- Crude runs to stills by month, 1965-1975
- Percent of refinery yield, 1965-1975

F. INTERNAL CONSUMPTION.

- Total internal consumption of refined products, by sectors, 1965-1975
- Total internal consumption of refined products, by products, 1965-1975
- Total internal consumption of refined products, 1965-1975 (Graph)
- Participation in internal consumption of refined products, by company, 1965-1975
- Total internal consumption of refined products, excluding bunkers, 1965-1975
- Total internal consumption of refined products, excluding bunkers, by month, 1965-1975
- Internal consumption in the industry and domestic use of refined products, 1965-1975
- Internal consumption in the industry and domestic use of refined products, 1965-1975 (Graph)
- Internal consumption of the refined product, by the oil industry, 1965-1975
- Internal consumption by the oil industry and domestic use of refined products, according to economic activity, 1975
- Refined products, for bunker, 1965-1975
- Internal consumption of motor gasoline, refined in the country, 1965-1975
- Internal consumption of motor gasoline, refined in the country, 1972-1975 (Graph)
- Total internal consumption per capita of refined products, 1965-1975
- Tax revenue from internal consumption of refined products, 1965-1975
- Local sales of refined products, 1965-1975

G. EXPORTS.

From Venezuela:

- Direct exports of crude oil and refined products, 1965-1975
- Direct exports of crude oil and refined products, 1960-1975 (Graph)
- Direct exports of crude oil and refined products, by month, 1965-1975
- Direct exports of crude oil and refined products, by country, 1965-1975 (Graph)
- Direct exports of refined products, by country, 1965-1975
- Direct exports of crude oil and refined products, by country, 1965-1975
- Direct exports of refined products, by country, 1965-1975 (Continued)
- Direct exports of refined products, by country, 1965-1975
- Direct exports of fuel oil, by country, 1965-1975
- Direct exports of products derived from gas, 1965-1975
- Direct exports of products derived from gas, by country, 1965-1975
- Direct exports of crude oil, by gravity ranges, 1965-1975
- Direct exports of crude oil, by country, 1965-1975
- Direct exports of crude oil, by country, 1965-1975

From Aruba and Curacao:

- Exports of crude oil and refined products, 1965-1975
- Exports of refined products, by country, 1965-1975
APPENDIX C (continued)

N. STORAGE AND TRANSPORT.

Storage capacity for crude oil and refined products, end of year, 1965-1975
Crude oil stocks, by company end of each month, 1975
Refined products stocks, by refinery end of each month, 1975
Major pipelines, by company, 1975
Major gaslines, by company, 1975
Major pipelines and gaslines, 1975 (Map)

I. GAS.

Proven gas reserves, 1965-1975
Production and utilization of natural gas, 1965-1975
Production and utilization of natural gas, 1965-1975 (Graph)
Production and utilization of natural gas, by jurisdiction, 1975
Gas injection plants, end of year, 1965-1975
Operating gas injection plants, end of year, 1975
Natural gas processing plants, 1975

J. SOCIAL ASPECTS OF OIL INDUSTRY.

Average employment in the oil industry, 1965-1975
Employment and earnings in the oil industry, 1965-1975
Other benefits at employees of the oil industry, 1965-1975
Contributions of the oil industry to education, 1965-1975
Contributions of the oil industry to health and social welfare, 1965-1975
Investments of the oil industry in housing construction and other social services, 1965-1975

K. FINANCE.

Hydrocarbons indicators, 1970-1975
Financial summary of the oil industry, 1965-1975
Income and expense statement of the oil industry, 1965-1975
Distribution of income per barrel, 1965-1975
Distribution of income per barrel, 1960-1975 (Graph)
Return on net fixed assets of the oil industry, 1965-1975
Assets, liabilities and equity shareholders', 1965-1975
Current Assets, 1965-1975
Cumulative investment in fixed assets by departments, 1965-1975
New investment in fixed assets by departments, 1965-1975
Working capital, 1965-1975
Sources and uses of funds, 1965-1975
Fiscal income and its relation to net profits, 1965-1975
Oil Production and its fiscal value, taxes, levied on the oil industry, 1965-1975
Taxes levied on hydrocarbons: income tax customs duties and other taxes, 1965-1975
Exports, production and unit value of crude oil, 1965-1975
Average realization and fiscal prices, 1965-1975
Average realization and fiscal prices, of exports, 1970-1975 (Graph)
Freight premium applicable to export values, 1971-1975
Exchange rate of Bolívares per Dollar and effective income rate, 1964-1975

L. REVERSION.

Amount of the indemnities to be paid to the concessionaire in accordance with the Organic Law that reserves to the state the Hydrocarbons Industry and its Commerce, 31-12, 1975
Amount of the indemnities to be paid to the concessionaire in accordance with the Organic Law that reserves to the state the Hydrocarbons Industry and its Commerce, and method of payment, 31-12, 1975.
Amount of the indemnities to be paid in accordance with the Organic Law that reserves to the state the Hydrocarbons Industry and its Commerce, to those persons who have entered into joint property operational agreements, 31-12, 1975.
Amount of the indemnities to be paid in accordance with the Organic Law that reserves to the state the Hydrocarbons Industry and its Commerce, to those persons who have entered into joint property operational agreements, and method of payment, 31-12, 1975.
Guarantee fund of Hydrocarbons concessionaires in accordance with article 19 of the Organic Law that reserves to the state the Hydrocarbons Industry and its Commerce, 31-12, 1975.
Guarantee fund of the persons who have entered into joint property operational agreements or of participation with the Hydrocarbons concessionaires, 31-12, 1975.
IV. PETROLEUM IN THE WORLD.

A. GENERAL ACTIVITIES:

Completed wells, by country, 1965-1975
Crude oil reserves, by country, 1965-1975
Crude oil reserves, 1965-1975 (Graph)
Natural gas reserves, by country, 1969-1975
Cumulative production of crude oil by regions, 1857-1975
Cumulative production and crude oil reserves by regions, 1857-1975 (Graph)
Crude oil production by country, 1965-1975
World crude oil production, 1975 (Graph)
Natural gas production, by country, 1969-1975
Refining capacity of crude oil by country, end of year, 1965-1975
Refining products output, by country, 1965-1975
Supply and demand of liquid hydrocarbons by regions, 1965-1975
Movement of crude oil and refined products, 1973
Western Hemisphere: Movement of crude oil and refined products, 1950-1975 (Graph)
Exports of crude oil and refined products by main countries, 1967-1975
O.P.E.P.: Production and net export of crude oil, 1975 (Graph)
Western Hemisphere: Imports of crude oil and refined products from O.P.E.P., 1967-1975
Europe: Imports of crude oil and refined products from O.P.E.P., 1967-1975
Europe: Imports of crude oil by country of origin, 1974
Europe: Imports of main refined by products, 1969-1975

B. PRICES:

Average crude oil posted prices FOB, by major countries, 1965-1975
World: Average posted prices FOB of refined products, 1965-1975
Amsterdam and Rotterdam: Minimal average barge prices quoted for gasoline and gas oil, 1965-1975
United States: Average posted price for crude oil and refined products, 1965-1975
United States: Average posted price for residual fuel oil in the port of New York, 1965-1975
West Germany: Average crude oil import price, by major sources of supply, 1965-1975
Italy: Average crude oil import price, by major sources of supply, 1965-1975
United Kingdom: Average crude oil import price, by major sources of supply, 1965-1975

C. TRANSPORT:

Breakdown of the world tanker fleet, by flag, end of year, 1965-1975
Breakdown of the world tanker fleet, by owners, end of year, 1965-1975
Breakdown of the world tanker fleet, by size and main owners, end of year, 1965-1975
World: Breakdown of the number of tankers by size and principal owners, end of year, 1965-1975
Percentage distribution of the world tanker fleet by main owners, 1965-1975 (Graph)
Worldscale rates, at the beginning of each year, 1973-1975
Variation of the tanker freight rates in relation to Intascale, 1973-1975

V. PRODUCTION AND CONSUMPTION OF ENERGY IN THE WORLD.

Energy production by sources, 1963-1973
Energy production by sources, 1963-1973 (Graph)
Venezuela: Energy production, 1965-1975
Energy consumption by sources, 1963-1973
Energy consumption by regions, 1963-1973
Energy consumption per capita, by regions, 1963-1973
Venezuela: Energy consumption, 1965-1975

IV. PETROCHEMICAL PRODUCTS.

Gross production, by plants, 1965-1975
Total volume of sales, by type of market, 1965-1975
Volume of sales of fertilizers, by regions, 1966-1975
Volume of nutrients in sales of fertilizers, 1965-1975
APPENDIX D

SOURCES USED BY SUBCOMMITTEES OF THE API COMMITTEE ON RESERVES FOR ACTUAL ANNUAL CRUDE OIL PRODUCTION DATA – TABLE III

ALABAMA
Oil and Gas Board reports.

ALASKA
Prior to August 1969, the basic source of production data was a monthly publication entitled “Mines and Petroleum Bulletin” published by the Division of Mines and Minerals of the Department of Natural Resources. Adjustments of production of prior years were made in compliance with the annual reports entitled “State of Alaska, Department of Natural Resources, Division of Mines and Minerals, Report For The Year.” Reports so entitled were published for the years up to and including 1967. Beginning with the bulletin published for August 1969, and continuing to date, the basic source of production data has been a monthly publication entitled “State of Alaska, Department of Natural Resources, Division of Oil and Gas Bulletin,” published by the Division of Oil and Gas, 3001 Porcupine Drive, Anchorage, Alaska 99504. Adjustments of production of prior years has been made in compliance with the annual reports entitled “State of Alaska, Department of Natural Resources, Division of Oil and Gas, Report For The Year”. Reports of this title have been published to date beginning with the report for year 1968. These reports are published by the Division of Oil and Gas, 3001 Porcupine Drive, Anchorage, Alaska 99504.

ARIZONA
Oil and Gas Conservation Commission, State of Arizona.

ARKANSAS
Oil and Gas Commission's Annual Oil and Gas Report adjusted to exclude condensate.

CALIFORNIA
Conservation Committee of California Oil Producers production records prepared for the State of Ca., Department of Conservation, Division of Oil and Gas, which are published in "Annual Review, California Oil and Gas Production" by the Conservation Committee.

COLORADO
The pre-1966 source of final annual production used in Table III was the historical record of petroleum produced in the United States as compiled by the Bureau of Mines. Some adjustments were made to the data to conform with the subcommittee's cumulative totals; however, they were very minor. The subcommittee's cumulative totals were compiled from the state report, "Colorado Oil and Gas Statistics," and individual company information. Since 1966, the subcommittee has used the "Colorado Oil and Gas Statistics" annual report, published by the Colorado Oil and Gas Commission. The current year's production is partly estimated each year from Petroleum Information, Inc. monthly production source books. It is then corrected to actual production the following year in Table III, using the "Colorado Oil and Gas Statistics" annual report.

FLORIDA
Oil producing companies operating in the state as tabulated by subcommittee members by field.

ILLINOIS

INDIANA

KANSAS
1973–1976 Petroleum Information, Inc. reports (less estimated lease condensate production.)

KENTUCKY

LOUISIANA (North)
To August 1937 – Louisiana Department of Conservation reports.
From August 1, 1937 to January 1, 1952, condensate was included in state reports. Crude petroleum was obtained by deducting production from known condensate fields.
1952–1970 Louisiana Department of Conservation Annual Oil and Gas Reports.
1974–1976 Petroleum Information, Inc. and Dwight's Production Reports (in absence of the Louisiana Department of Conservation Annual Oil and Gas Report.)
NEW MEXICO (Northwest)
The pre-1966 source of final annual production used in Table III was the historical record of petroleum produced in the United States as compiled by the Bureau of Mines. Some adjustments were made to the data to conform with the subcommittee's cumulative totals; however, they were very minor. The subcommittee's cumulative totals were compiled from the New Mexico Oil and Gas Engineering Committee Annual Report (Volume II). Since 1966, the subcommittee has used the annual production report of the New Mexico Oil and Gas Engineering Committee (Volume II).

NEW YORK
Production is compiled from data gathered from the National Transit Company and the Bradford District Pennsylvania Oil Producers Association supplied by pipelines and purchasers gathering crude oil throughout the state.

NORTH DAKOTA
"Official Production Statistics, North Dakota Geological Survey".

OHIO
Data obtained from the Ohio Oil & Gas Association, Newark, Ohio, who obtained the information from the pipeline companies and other companies purchasing oil in the state.

OKLAHOMA
1889-1918 U.S. Geological Survey, Mineral Resources of the U.S.
1973-1976 Petroleum Information, Inc. reports (less estimated lease condensate production).

PENNSYLVANIA
Production is compiled from data gathered from the National Transit Company and the Bradford District Pennsylvania Oil Producers Association supplied by pipelines and purchasers gathering crude oil throughout the state, and the Pennsylvania Geological Survey.

SOUTH DAKOTA
1966-1976 "Production Figures Cumulative for Year, South Dakota Geological Survey".

TENNESSEE
Pre-1969 South Kentucky Purchasing, and Citizens Gas Company.

TEXAS - Districts 1 and 2
(a) Annual Report of the Oil and Gas Division by the Railroad Commission of Texas.
(b) Annual Source Book of Petroleum Statistics — Crude and Casinghead Gas by Petroleum Information, Inc.
(c) Various company records.
(d) International Oil and Gas Development — Part 2 — Production by International Oil Scouts Association.
(e) The Oil & Gas Fields of Southwest Texas District 1 (1955) by Five Star Oil Report.
Actual production figures were obtained from source (a).
Cumulative production for all fields which are still producing have been obtained from one of the sources (a), (b), or (c).
Cumulative production for some abandoned fields have been obtained from sources (d), and (e).

TEXAS - District 3
Pre-1969 Various oil and gas producing companies' records and the Railroad Commission of Texas reports.
1974-1976 Production Information Reports.

TEXAS - District 4
Pre-1969 Primary sources of all production data are either the Railroad Commission of Texas annual reports or Petroleum Information (Lockwood) Service. There are some exceptions in the case of extremely old fields where the subcommittee relied on company records where these are believed to be more accurate.
1969-1972 Annual Report, Oil & Gas Division, the Railroad Commission of Texas.
APPENDIX D (continued)

LOUISIANA (South)
1954-1970 Annual Oil and Gas Reports, Department of Conservation, State of Louisiana.
NOTE: Adjustments were required for differentiation of natural gas liquids from crude oil when necessary in early years where state records show combined totals and small adjustments were made to compensate for boundary irregularities between North and South Louisiana.

MICHIGAN
Pre-1920 Michigan subcommittee.
1964-1974 Michigan Geology Survey Division, DNR, Annual Statistical Summary 2, 4, 6, 8, 10, and 22.

MISSISSIPPI
Mississippi Oil and Gas Board Bulletins and Annual Reports, oil pools only.

MISSOURI
Pre-1920–

MONTANA
Pre-1920–
1922–1927 Oil and Gas Conservation Commission.
1970–1976 Department of Natural Resources and Conservation, Oil & Gas Conservation Division.

NEBRASKA
The pre-1966 source of final annual production used in Table III was the historical record of petroleum produced in the United States as compiled by the Bureau of Mines. Some adjustments were made to the data to conform with the subcommittee's cumulative totals; however, they were very minor. The subcommittee's cumulative totals were compiled from state data and individual company information. 1966–1972 The subcommittee has used the annual production from the Nebraska Activity Summary published by the Oil and Gas Conservation Commission.

NEVADA
Nevada Bureau of Mines and Geology.
1975 Nevada Oil and Gas Conservation Commission.
1976 Department of Conservation and Natural Resources, Division of Mineral Resources.

NEW MEXICO (Southeast)
1922–1948 Bulletin No. 18 titled "The Oil and Gas Resources of New Mexico, 2nd Edition," School of Mines and various reports of the New Mexico Oil and Gas Engineering Committee.
1961–1968 Correction of production made by subcommittee members utilizing the annual report of the New Mexico Oil and Gas Engineering Committee.
1976 New Mexico Oil and Gas Engineering Committee Annual Report.
APPENDIX D (continued)

TEXAS — Districts 5 and 6
- Pre-1940 Annual production by field was taken from Bess Mason Reports, oil company private records, and from the Annual Reports of the Railroad Commission of Texas.
- 1940-1976 Annual Report of the Oil and Gas Division, the Railroad Commission of Texas.

TEXAS — District 7-B
- Pre-1940 Field production data was developed using company records and private sources.
- 1940-1966 Annual reports of the Oil & Gas Division of the Railroad Commission of Texas. All data prior to 1967 was reconciled in a special study on cumulative production conducted by API in 1967.
- 1967-1976 Field production data from Petroleum Information, Inc. cross checked with annual reports of the Oil & Gas Division of the Railroad Commission of Texas.

TEXAS — District 7-C
Cumulative production through 1968 taken from annual reports of the Oil & Gas Division of the Railroad Commission of Texas.
- 1969 Reports of Petroleum Information, Inc.
- 1970 Petroleum Information Reports corrected for fields previously listed as District 7-C and now carried in other Railroad Commission District.
- 1971 Petroleum Information, Inc. annual report.
- 1972 Railroad Commission of Texas Annual Production by Active Fields.
- 1973 Petroleum Information, Inc. annual report.
- 1974-1975 Railroad Commission of Texas Annual Production by Active Fields.
- 1976 Petroleum Information, Inc. annual report.

TEXAS — Districts 8 and 8-A
Primary source is “Source Book of Petroleum Statistics” of Petroleum Information, Inc. (formerly Lockwood). This data source follows the same nomenclature used by the Oil & Gas Division of the Railroad Commission of Texas and obtains the production data from that commission, and is more accurate and more readily available than any other annual production statistics source with which the subcommittee is familiar. For fields discovered prior to the initial issue of the Petroleum Information report (1945), the subcommittee’s record of cumulative production was used. The cumulatives for these fields have been established primarily from major producing company records. For fields discovered subsequent to 1945, Petroleum Information, Inc. cumulatives were used and a check made with the Annual Report of the Oil & Gas Division of the Railroad Commission of Texas. The latter report is also used for obtaining cumulatives of fields abandoned prior to 1945. These production data sources are considered to be reliable.

TEXAS — District 9
- Pre-1940 Field production data was developed using company records and private sources.
- 1940-1966 Annual reports of the Oil & Gas Division of the Railroad Commission of Texas. All data prior to 1967 was reconciled in a special study on cumulative production conducted by API in 1967.
- 1967-1973 Data reported by Petroleum Information, Inc. cross checked with annual reports of the Oil & Gas Division of the Railroad Commission of Texas.

TEXAS — District 10
- Pre-1940 Field production data was developed using company records and private sources.
- 1940-1966 Annual reports of the Oil & Gas Division of the Railroad Commission of Texas. All data prior to 1967 was reconciled in a special study on cumulative production conducted by API in 1967.
- 1967-1973 Data reported by Petroleum Information, Inc. cross checked with annual reports of the Oil & Gas Division of the Railroad Commission of Texas.
- 1974 Petroleum Information, Inc. plus company records for pre-1940.

UTAH
- Pre-1966 Historical record of petroleum produced in the United States as compiled by the Bureau of Mines. Some adjustments were made to the data to conform with the subcommittee’s cumulative totals; however, they were minor. The subcommittee’s cumulative totals were compiled from the Monthly Oil & Gas Production Report published by the Utah Oil & Gas Conservation Commission and individual company information.
- 1966-1969 The subcommittee has used the year-to-date production reported in the December issue of the above report for actual annual production.
- 1970-1976 Utah Oil & Gas Conservation Commission Production Reports.

VIRGINIA
Department of Labor and Industry, Division of Mines and Quarries, Oil & Gas Section, Big Stone Gap, Va.

WEST VIRGINIA
- West Virginia Business Index and crude oil purchasers.

WYOMING
- 1966-1976 “Oil Production—Wyoming, by Producers and Fields,” as shown by tax returns filed with the State Board of Equalization, adjusted for natural gas liquids.
This report was done with support from the Department of Energy. Any conclusions or opinions expressed in this report represent solely those of the author(s) and not necessarily those of The Regents of the University of California, the Lawrence Berkeley Laboratory or the Department of Energy.

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