<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Crude Oil</th>
<th>Condensate</th>
<th>Natural Gas</th>
<th>Natural Gas Liquids</th>
<th>Total Natural Gas Reserves</th>
</tr>
</thead>
<tbody>
<tr>
<td>1977</td>
<td>2,900</td>
<td>1,200</td>
<td>2,700</td>
<td>400</td>
<td>6,800</td>
</tr>
<tr>
<td>1978</td>
<td>3,000</td>
<td>1,300</td>
<td>2,800</td>
<td>450</td>
<td>7,500</td>
</tr>
<tr>
<td>1979</td>
<td>3,100</td>
<td>1,400</td>
<td>2,900</td>
<td>500</td>
<td>7,900</td>
</tr>
</tbody>
</table>

**SECTION A**

Total United States, Net Company Interests

**SECTION B**

- **Net Change due to Revisions of Earlier Estimates**: In billions of cubic feet
- **New Proved Reserves**: Developed and Undeveloped
- **Improved Recovery**: In thousands of barrels, developing and undeployed

**SECTION C**

- **Net Change due to Purchases (sales) of Production**: A. Total Proved Reserves at December 31
- **Extractions, Discoveries, and Other Additions**: D. Revisions of Earlier Estimates
- **Improved Recovery**: B. Revisions of Earlier Estimates
- **Revisions of Earlier Estimates**: C. Improved Recovery

**SECTION D**

- **Net Change due to Sales of Production**: E. Production
- **Net Change due to Revisions of Earlier Estimates**: F. Production
- **Extractions, Discoveries, and Other Additions**: D. Revisions of Earlier Estimates
- **Improved Recovery**: B. Revisions of Earlier Estimates

**SECTION E**

- **Net Change due to Sales of Production**: E. Production
- **Net Change due to Revisions of Earlier Estimates**: F. Production
- **Extractions, Discoveries, and Other Additions**: D. Revisions of Earlier Estimates
- **Improved Recovery**: B. Revisions of Earlier Estimates

**SECTION F**

- **Net Change due to Revisions of Earlier Estimates**: In billions of cubic feet
- **New Proved Reserves**: Developed and Undeveloped
- **Improved Recovery**: In thousands of barrels, developing and undeployed

**SECTION G**

- **Net Change due to Sales of Production**: E. Production
- **Net Change due to Revisions of Earlier Estimates**: F. Production
- **Extractions, Discoveries, and Other Additions**: D. Revisions of Earlier Estimates
- **Improved Recovery**: B. Revisions of Earlier Estimates

**SECTION H**

- **Net Change due to Sales of Production**: E. Production
- **Net Change due to Revisions of Earlier Estimates**: F. Production
- **Extractions, Discoveries, and Other Additions**: D. Revisions of Earlier Estimates
- **Improved Recovery**: B. Revisions of Earlier Estimates

**SECTION I**

- **Net Change due to Sales of Production**: E. Production
- **Net Change due to Revisions of Earlier Estimates**: F. Production
- **Extractions, Discoveries, and Other Additions**: D. Revisions of Earlier Estimates
- **Improved Recovery**: B. Revisions of Earlier Estimates

**SECTION J**

- **Net Change due to Sales of Production**: E. Production
- **Net Change due to Revisions of Earlier Estimates**: F. Production
- **Extractions, Discoveries, and Other Additions**: D. Revisions of Earlier Estimates
- **Improved Recovery**: B. Revisions of Earlier Estimates

**SECTION K**

- **Net Change due to Sales of Production**: E. Production
- **Net Change due to Revisions of Earlier Estimates**: F. Production
- **Extractions, Discoveries, and Other Additions**: D. Revisions of Earlier Estimates
- **Improved Recovery**: B. Revisions of Earlier Estimates

**SECTION L**

- **Net Change due to Sales of Production**: E. Production
- **Net Change due to Revisions of Earlier Estimates**: F. Production
- **Extractions, Discoveries, and Other Additions**: D. Revisions of Earlier Estimates
- **Improved Recovery**: B. Revisions of Earlier Estimates
<table>
<thead>
<tr>
<th>Line Item #</th>
<th>A. Exploration Reference Form MA-13K</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Dry Holes</td>
<td>1,650</td>
</tr>
<tr>
<td>1. Total Number of Wells</td>
<td>2,000</td>
</tr>
<tr>
<td>1. Total Footage Drilled</td>
<td>1,450</td>
</tr>
<tr>
<td>2. Oil Wells</td>
<td>1,400</td>
</tr>
<tr>
<td>3. Gas Wells</td>
<td>100</td>
</tr>
<tr>
<td>4. Total Development Expenditures</td>
<td>1,300</td>
</tr>
<tr>
<td>5. Total Drilling and Equipping Wells</td>
<td>1,100</td>
</tr>
<tr>
<td>6. Total Footage Drilled</td>
<td>1,000</td>
</tr>
<tr>
<td>7. Total Number of Wells</td>
<td>1,000</td>
</tr>
</tbody>
</table>

**IV. DRILLING ACTIVITY: PHYSICAL DATA FOR WELLS COMPLETED DURING THE YEAR**

**NAME OF COMPANY: MURPHY OIL CORPORATION**

**TOTAL**

**SPECIAL INSTRUCTIONS**

See other notes on page 4. If "in" or "on" page 4, use a "f" in the appropriate section of this questionnaire. This section is self-explanatory. The figures. Section A of this form and the accompanying information for this year's report are not applicable to the bureau of the census on that form, to the extent that this form does not correspond directly to the questions corresponding to the referenced items in the Bureau of the Census questionnaires. Section B of this form is self-explanatory. The figures. Section A of this form and the accompanying information for this year's report are not applicable to the Bureau of the Census on that form, to the extent that this form does not correspond directly to the questions corresponding to the referenced items in the Bureau of the Census questionnaires.
<table>
<thead>
<tr>
<th>Time</th>
<th>Score</th>
<th>Score</th>
<th>Score</th>
<th>Score</th>
<th>Score</th>
<th>Score</th>
<th>Score</th>
<th>Score</th>
<th>Score</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

**TOTAL UNITED STATES NET COMPANY INTEREST BASIS**

Please repeat...
Please return completed questionnaire to the address above no later than October 19, 1991.

Responses, please attach a separate sheet.

We welcome comments on the questionnaire or explanatory notes on your work.

Petro/Chem Industry Research Foundation, Inc.

[Address]

If you have any questions concerning this survey, please contact

<table>
<thead>
<tr>
<th>Year</th>
<th>Increase</th>
<th>Decrease</th>
<th>Increase</th>
<th>Decrease</th>
<th>Increase</th>
<th>Decrease</th>
</tr>
</thead>
<tbody>
<tr>
<td>1975</td>
<td>74</td>
<td>84</td>
<td>69</td>
<td>57</td>
<td>50</td>
<td>20</td>
</tr>
<tr>
<td>1974</td>
<td>75</td>
<td>54</td>
<td>72</td>
<td>55</td>
<td>55</td>
<td>24</td>
</tr>
<tr>
<td>1973</td>
<td>54</td>
<td>68</td>
<td>75</td>
<td>55</td>
<td>55</td>
<td>24</td>
</tr>
<tr>
<td>1972</td>
<td>58</td>
<td>69</td>
<td>77</td>
<td>61</td>
<td>55</td>
<td>24</td>
</tr>
</tbody>
</table>

Increase, Decrease.

Total United States, net company interest basis.

SECTION C

NURSE OIL CORPORATION

U.S. Oil and Gas Exploration Survey (Cont'd)