**Date Compiled:** 1 July 1967

**Field Name:** Hawkeye

**Madison Unit**

**Location:** Township 152 North, Range 95, 96 West

**McKenzie County, North Dakota**

**Producing Formation(s)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Age</th>
</tr>
</thead>
<tbody>
<tr>
<td>Madison</td>
<td>Mississippian</td>
</tr>
</tbody>
</table>

**Discovery Well**

<table>
<thead>
<tr>
<th>Name</th>
<th>Amerada #1 Sam Grimestad, Tract 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>SESE 19-T152N-R95W</td>
</tr>
<tr>
<td>Completion date</td>
<td>23 November 1965</td>
</tr>
<tr>
<td>Total Depth</td>
<td>9291'</td>
</tr>
<tr>
<td>K.B.</td>
<td>2444'</td>
</tr>
<tr>
<td>Casing</td>
<td>7&quot; @ 9289' with 1200 Sz</td>
</tr>
<tr>
<td>Completion</td>
<td>Perf. 9229-9269'</td>
</tr>
<tr>
<td>Open Hole</td>
<td></td>
</tr>
<tr>
<td>Acidization</td>
<td>2000 gallons Regular</td>
</tr>
<tr>
<td>Initial Potential Flow</td>
<td>244 BO, 78 BWPD</td>
</tr>
<tr>
<td>Pressures</td>
<td>TP 180#</td>
</tr>
<tr>
<td>Description of trap</td>
<td>Structure with updip permeability barrier</td>
</tr>
</tbody>
</table>

**Reservoir Data**

- **Porosity:** 8.7%
- **Permeability:** 0.3-15, 6 Md
- **Fluid Saturation:**
  - Oil: 10%
  - Water: 37.8%
- **Oil-Water Contact:** North-6600; South-6740
- **Oil Column:** -
- **Gas-Oil Ratio:** 1264:1

**Recovery Data**

- **ultimate primary recovery:** 11,745,000 barrels
- **ultimate secondary recovery:** 23,017,000 barrels

**Production and Marketing**

- **No. of producing wells:** 50
- **No. of abandoned wells:** 0
- **No. of dry holes:** 7
- **No. of shut-in wells:** 0
- **Proved acreage:** 5847

**Initial Pressures**

- **Flow:** -
- **Bottom Hole Shut-in:** 4272#
- **Current Bottom Hole Shut-in:** 2390# (Dec, 63)
- **Reservoir drive mechanism:** Depletion Drive
- **Formation water salinity:** 315, 553 ppm
- **Percent H₂S:** -
- **Gravity and Pour Point:** 40° API
- **Cumulative Production, 1 July 1967:**
  - Oil: 6,961,760 barrels
  - Water: 1,462,643 barrels

**Market outlet:** Pan American Oil Purchasing Co.

**Major operators:** Amerada Petroleum Corporation, Texaco, Incorporated

**Lithology of Reservoir Rock**

- Interbedded limestones and dolomites

**Other formations with oil shows**

- Kibbey Sandstone, Kibbey Limestone, Charles

**Exploration method used to locate discovery well**

- Surface and seismic

**Elevation of surface**

- 2400' average

**Surface formation**

- Tertiary Tongue River

**Oldest stratigraphic horizon penetrated**

- Madison at 9437 feet

**Completion practice**

- Set pipe and selectively perforate. Some open hole completions.

**References:**