## Results

<table>
<thead>
<tr>
<th>Primary Parameter that is changed</th>
<th>Match of Pressure</th>
<th>Match of Collection Rates</th>
<th>Cum Oil Released, MMSTB</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOP Diameter = 2 inch</td>
<td>✓</td>
<td>Bad</td>
<td>3.32</td>
</tr>
<tr>
<td>Skin = 50</td>
<td>✓</td>
<td>Bad</td>
<td>3.39</td>
</tr>
<tr>
<td>Permeability = 170 mD</td>
<td>X</td>
<td>Bad</td>
<td>4.14</td>
</tr>
<tr>
<td>Pay thickness = 25 ft</td>
<td>✓</td>
<td>Bad</td>
<td>4.3</td>
</tr>
<tr>
<td>Permeability = 360 mD</td>
<td>✓</td>
<td>Bad-Med.</td>
<td>4.53</td>
</tr>
<tr>
<td>Wellbore Roughness = 0.02 inch</td>
<td>✓</td>
<td>Mediocre</td>
<td>4.7</td>
</tr>
<tr>
<td>Error of hydrostatic pressure = +150 psi</td>
<td>✓</td>
<td>Mediocre</td>
<td>4.85</td>
</tr>
<tr>
<td>Pay thickness = 50 ft</td>
<td>✓</td>
<td>Med.-Good</td>
<td>4.93</td>
</tr>
<tr>
<td>Error of CS pressure = -10 &amp; -30 psi</td>
<td>✓</td>
<td>Good</td>
<td>4.99</td>
</tr>
<tr>
<td>Porosity = 22%</td>
<td>✓</td>
<td>Good</td>
<td>5.00</td>
</tr>
<tr>
<td>Error of CS pressure = +10 &amp; +30 psi</td>
<td>✓</td>
<td>Good</td>
<td>5.03</td>
</tr>
<tr>
<td>Base Case</td>
<td>✓</td>
<td>Good</td>
<td>5.03</td>
</tr>
<tr>
<td>Error of BOP pressure = -10 psi</td>
<td>✓</td>
<td>Good</td>
<td>5.03</td>
</tr>
<tr>
<td>Error of BOP pressure = +74 psi</td>
<td>✓</td>
<td>Good</td>
<td>5.03</td>
</tr>
<tr>
<td>Oil viscosity: high</td>
<td>✓</td>
<td>Good</td>
<td>5.05</td>
</tr>
<tr>
<td>Permeability = 850 mD</td>
<td>✓</td>
<td>Good</td>
<td>5.07</td>
</tr>
<tr>
<td>Oil viscosity: low (0.16 cp)</td>
<td>✓</td>
<td>Good</td>
<td>5.13</td>
</tr>
<tr>
<td>Aquifer: Yes</td>
<td>✓</td>
<td>Good</td>
<td>5.14</td>
</tr>
<tr>
<td>Rock compressibility = 12 μsips</td>
<td>✓</td>
<td>Good</td>
<td>5.15</td>
</tr>
<tr>
<td>Error of hydrostatic pressure = -150 psi</td>
<td>✓</td>
<td>Good</td>
<td>5.27</td>
</tr>
<tr>
<td>Number of reservoir layers = 3</td>
<td>✓</td>
<td>Good-Med.</td>
<td>5.33</td>
</tr>
<tr>
<td>BOP Diameter = 3.5 inch</td>
<td>✓</td>
<td>Good-Med.</td>
<td>5.40</td>
</tr>
<tr>
<td>Skin = 0</td>
<td>✓</td>
<td>Mediocre</td>
<td>5.44</td>
</tr>
<tr>
<td>BOP Diameter = 4 inch</td>
<td>✓</td>
<td>Mediocre</td>
<td>5.59</td>
</tr>
<tr>
<td>Wellbore Roughness = 0.0006 inch</td>
<td>✓</td>
<td>Bad</td>
<td>5.78</td>
</tr>
</tbody>
</table>