

JTI PRODUCTION FORECASTING SOFTWARE

ProCone®

“The profitability software for evaluating reservoir performance!”

Quick, Practical Tools for:

- **Single-Well Rate Forecasts**
- **Reserve Estimates**
- **History-Matching**
- **Performance Analysis**

For water or gas CONING overtime

- Vertical and Horizontal Wells
- Oil column underlain by water, or overlain by gas
- Gas underlain by water

ProCone® will help you answer these questions:

- What rate should I produce a new gas well to avoid pulling in water?
- If I drill a horizontal well, how much more can I produce water-free over a vertical well? How much do rates and reserves increase with greater well length?
- As the water table rises over time, how much should I reduce the rate to avoid water production?
- When will water break through to my oil well? After breakthrough, how fast will water cut increase with time?
- What is the vertical permeability, based on time to water breakthrough?

Proven and Improved through years of use in JTI Projects Worldwide

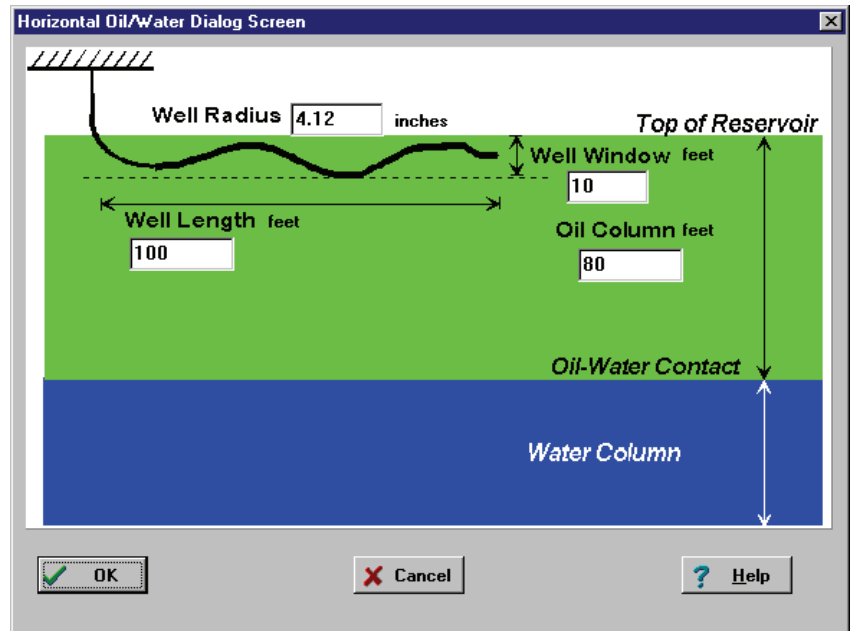
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JTI SOFTWARE: METHODS AND FEATURES

ProCone® uses analytical methods for fast execution and easy data requirements. It allows the engineer to compare many scenarios quickly. ProCone® is useful as a stand-alone evaluation tool, or a screening tool prior to numerical simulation studies. “**Sensitivity**” features show the effect of variables or unknowns on rates and reserves in graphical form. ProCone® has **history-matching** features to graphically compare calculated and actual rates, enabling estimation of reservoir properties (e.g. horizontal or vertical permeability, drainage areas, etc.) from production history. ProCone® uses **Oilfield (U.S.) or Metric units**, and is available in stand-alone or network versions.

ProCone® is a reservoir engineering tool for coning/creeping analysis. ProCone® provides quick, straightforward performance analysis of oil reservoirs with gas caps or aquifers, or gas reservoirs with bottom water. It handles **both vertical and horizontal wells, producing oil or gas**. ProCone® includes 41 analytical coning correlations for critical rate, time to water breakthrough, and post-breakthrough water-cut performance.



Features of **ProCone®** include:

- Critical and post-breakthrough rates are forecast over time using a volumetric calculation of fluid contact positions.
- The plots generated depend on the type of forecast being made. For example, for post-water-breakthrough analysis, 7 plots are shown (e.g. oil rate vs. time, water cut vs. time, water cut vs. cum oil, etc.). Tabular output includes rates, cumulatives, water cut, recovery factor (all vs. time) and other results depending on the case.
- A “.csv” file is automatically generated with each run, for use directly in spreadsheets such as Excel, or for importing into economics programs.
- Sensitivity feature shows multiple forecasts based on a range of almost any input parameter, as shown at right for permeability.

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