

VirtuWell - Wellbore Optimization

Main Features

Wellbore / Sandface Deliverability:

Evaluate both sandface and wellhead deliverability curves for both oil and gas wells producing water and/or condensate. Determine sandface deliverability from sandface or wellhead test data.

Advance Forecasting:

VirtuWell allows the user to create multiple wellhead forecast scenarios for an Analytical Model including future wellbore configurations within the Harmony™ interface based on RTA analytical models. The IPR can be viewed for any of the scenarios being forecasted at any point in time. This provides opportunity to investigate how the reservoir is depleting and identify any uplift potential.

Tubing Performance:

Assess fluid-carrying capacity of wellbores and determine effects on deliverability with changes to wellbore configurations in both gas and oil wells.

Wellbore Modeling:

Calculate wellhead to sandface or sandface to wellhead pressure traverse for wellbores of arbitrary geometry. Perform hydrates detection along the well at given flowing conditions for gas wells. Detailed pressure loss computations and fluid properties are readily accessible.

Wellbore Schematics:

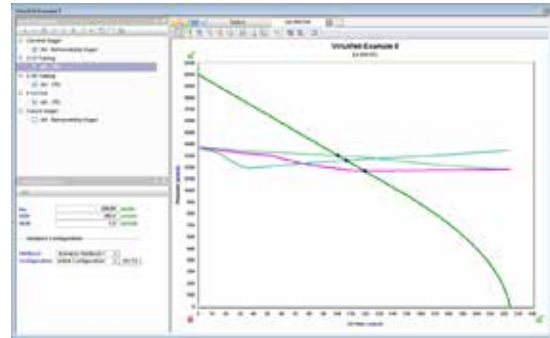
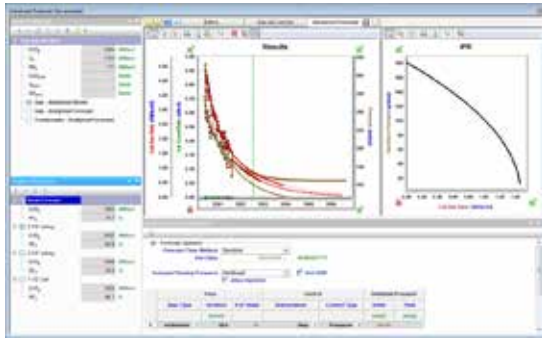
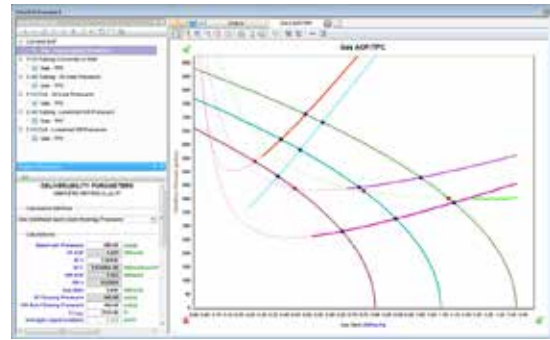
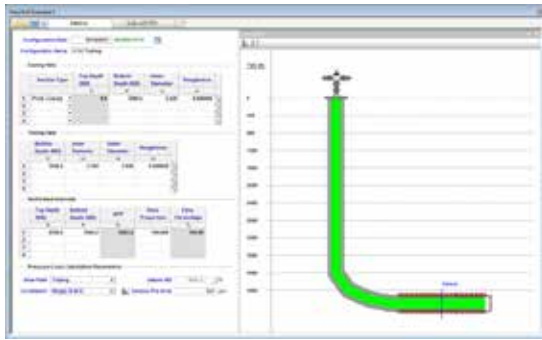
Semi-scale graphical depiction of wellbore configuration and geometry.

Reservoir Model:

Predict initial deliverability from gas reservoirs above the dew point in conjunction with analysis using the Vogel model to support oil reservoir deliverability.

Liquid Lift:

Determine minimum flow rate for liquid lift to avoid fallback and load-up in gas wells. Liquid loading alerts are integrated directly within the forecast plots. This allows for quick identification and comparison of each scenario to predict when the well will begin to load up and when artificial lift may be required.



Sample plots generated from IHS VirtuWell

Request a free trial now!

For more information www.ihsmarkit.com/energyengineering

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