

IHS DeclinePlus - Production Data Analysis & Reserves Evaluation



Main Features

Unconventional Decline Methods:

In addition to traditional decline, IHS DeclinePlus includes Stretched Exponential, Duong and a Multi-Segment method based on user defined constraints. Generate decline parameters by best-fitting both historical production and forecasts generated by analytical or numerical models.

Type Wells and Analog Performance:

Normalize analog well production to create a Type Well performance profile. Use the clipboard functionality to easily apply profiles to wells with little or no historical production.

Traditional Analysis Methods:

Perform Arps' decline analysis using advanced best fit options, multiple segments, and unique line manipulations. Conduct oil and gas volumetric calculations based on detailed reservoir parameters or mapped hydrocarbon pore volumes. Perform gas or oil material balance on single wells or reservoir groups using volumetric, geo-pressured, connected reservoir, or water drive gas models and volumetric, volatile oil, or geo-mechanical oil models.

Water-Oil-Ratio (WOR) Analysis:

Analyze oil reservoir performance using WOR, WOR+1, water cut or oil cut diagnostics. Generate oil and water rate forecasts based on constant or variable total fluid rate.

Advanced Workflows:

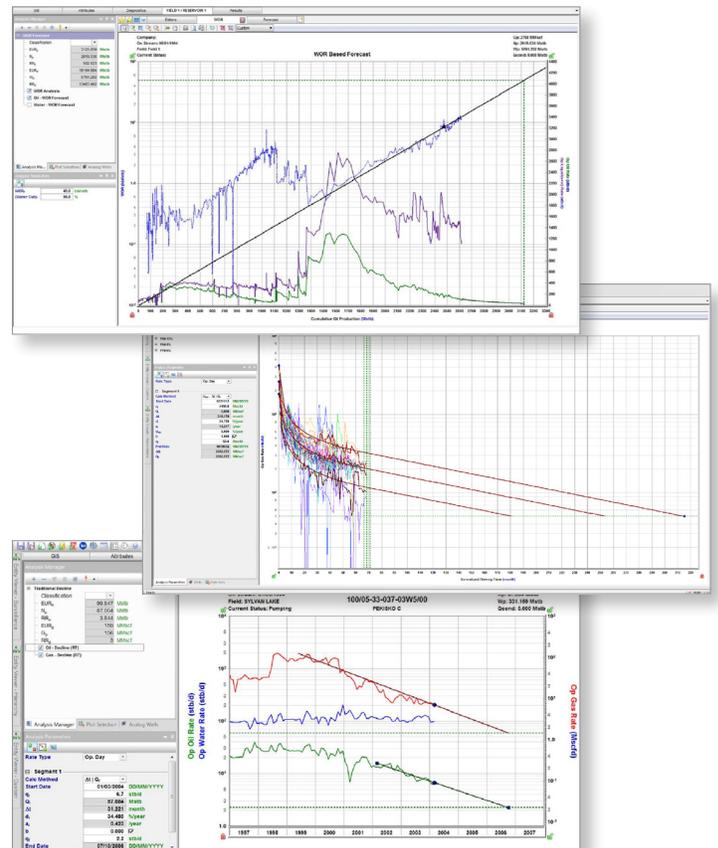
Create analyses that can be independent or can be linked to enforce consistency in results. Develop user defined plot templates with automatically generated analyses. Re-organize the data hierarchy on-the-fly to analyze groups based on an extensive list of parameters. Incorporate IHS RTA into the workflow and compare results from traditional and advanced methods on the same plots.

Consolidations:

Consolidate entity forecasts to group and hierarchy levels based on reserve classification or forecast name. Consolidations update dynamically with changes to well forecasts.

Forecasts Worksheet:

Easily create by-product forecasts using constant or variable ratios. View, copy/paste or export entity forecasts for easy transition into economic software.



Sample plots generated from IHS DeclinePlus

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www.fekete.com | www.ihs.com

Email: fek-info@ihs.com

Tel: 403 213 4200 | 1 800 625 2488

