Sahara

FEATURES

Available since version 3.2.217

interfaces

Type-curve analysis

This window, which can be accessed from Tools > Type-curve analysis, allows declining production data using other models than that of Arps. Each one of these represents an ideal-geometry reservoir in one of the two possible production states: pseudo-steady and transient.

Input data

Well and reservoir data must be input by the user in the **Parameters** tab table in order to completely define the model. On this tab the user may also find calculation results, such as drainage area, reserves, expected ultimate recovery, etc.

Data	
Wellbore diameter	5.50 in
Gas viscosity [cp]	0.0267
Net Thickness	30.00 m
Original Pressure	220.0 kg/cm²
Bottom hole flowing pressure	70.0 kg/cm²
Final pressure	40.0 kg/cm²
Compressibility	1.40e-04 1/PSI
Porosity	0.200 fr.
Gas saturation	0.350 fr.
Recovery factor	0.842 fr.
Min. rate	1000.0 m³/d
Gas	
Specific gravity	1.000 [air=1]
N2	0.000 fr.
CO2	0.000 fr.
H2S	0.000 fr.
Bottom hole temperature	65.0 °C
Forecast	
Wellhead pressure	60.0 kg/cm²
Results	
Drainage radius [m]	782.77
Efective radius [m]	0.78
Area [ac]	475.66
Permeability [mD]	1.5
Skin factor	-2.4165
OGIP [MMm³]	1026
EUR [MMm³]	864
Reserves [MMm³]	423

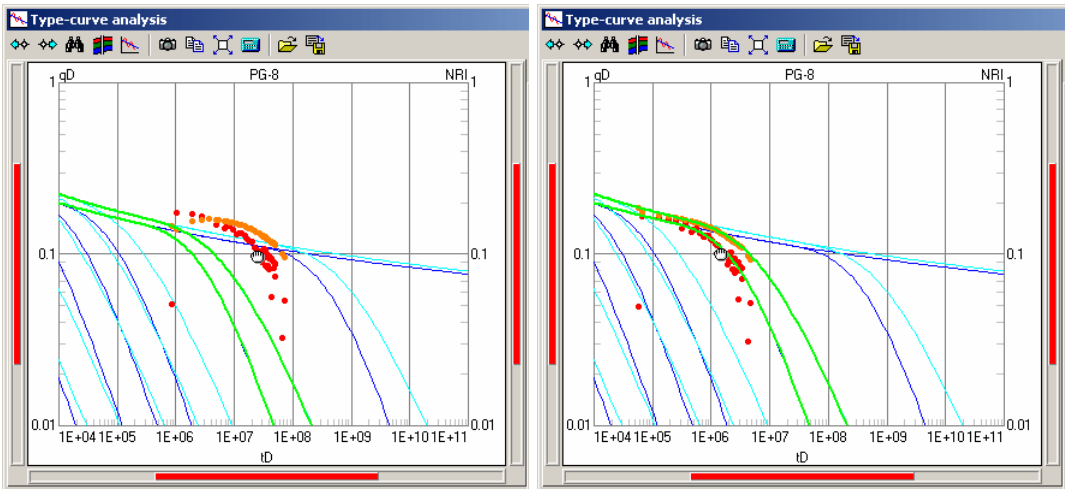
Models

The module handles both gas and oil productions. Included models are:

- Fetkovich
- Agarwal-Gardner
- Palacio-Blansingame
- NPI
- Corrêa

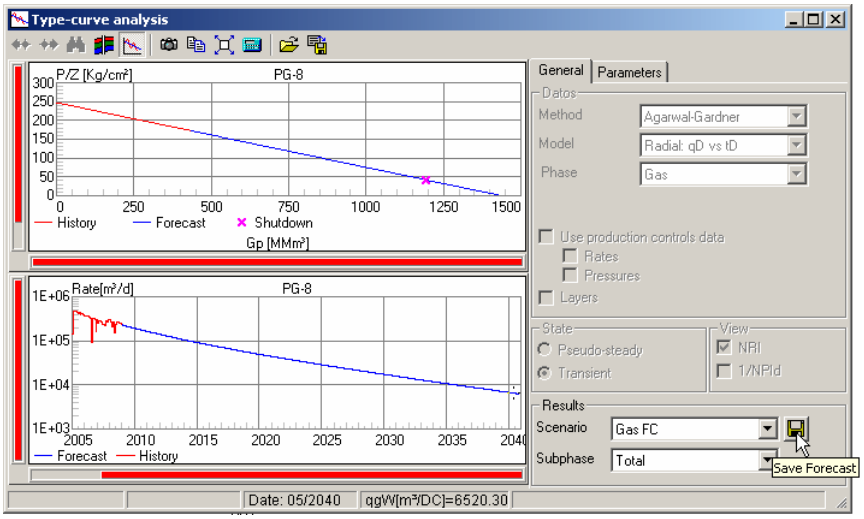
Data matching

Production data are plotted in the foreground and then must be dragged and dropped to match one of the type curves; results are automatically updated in the **Parameters** tab.



Forecast

Once the matching process is finished, the user may save the forecast to any given scenario and subphase.



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