

Drawdown survey = DD

Pressure transient survey in producer during the pressure fall period caused by opening well for production or increasing its production rate

(see Fig. 1).

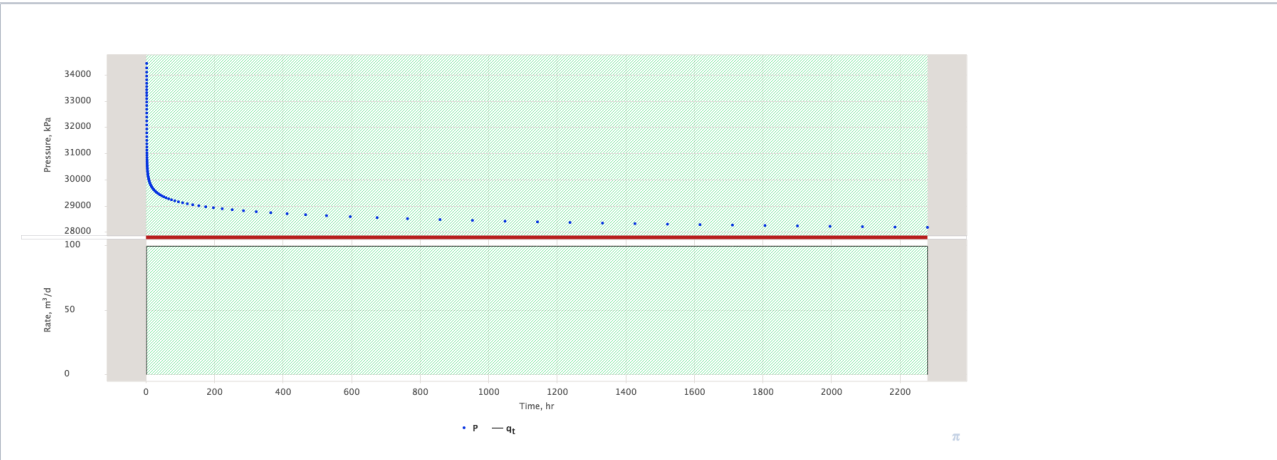


Fig 1. Drawdown pressure decline (blue dots) for 2,300 hrs after opening the well for production at 100 m³/d.

Interpretation

Interpretation of DD is based on:

- visual analysis of PTA diagnostic plot (see Fig. 1)
- selecting pressure diffusion model from PTA Type Library
- fitting selected parameters of pressure diffusion model to pressure gauge data records (see Fig. 2)

blocked URL	blocked URL
Fig. 1. PTA Diagnostic Plot for vertical well in single-layer homogeneous reservoir with impermeable circle boundary (PSS). Gauge pressure is in blue and log-derivative is in red.	Fig. 2. Pressure diffusion model fitting to pressure gauge data. Gauge pressure is in blue and log-derivative is in red.

See Also

Petroleum Industry / Upstream / Subsurface E&P Disciplines / Well Testing / Pressure Testing / Pressure Transient Analysis (PTA)

[Pressure Transient Analysis (PTA)][Pressure Build-Up (PBU) = Build-Up Survey (BUS)][Injection survey]