

Pressure Transient

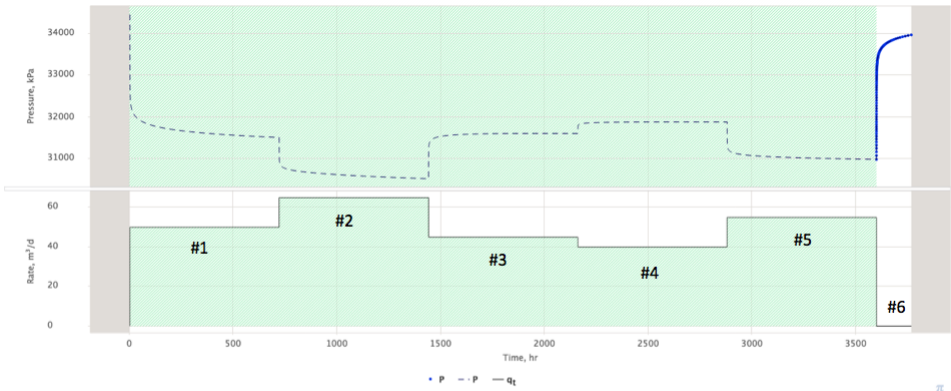
Synonym: [Pressure Transient](#) = [Pressure Transition](#)

[Wellbore](#) and [reservoir](#) pressure transition from one flow regime to another caused by the change in flow rate in the same well (Fig. 1 – Fig. 4) or remote well (Fig. 5 – Fig. 6).

Also called [Unsteady State](#).

Represent the basic data input to [Pressure Transient Analysis](#).

A popular convention for pressure transient data analysis is [PTA Diagnostic Plot](#).

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Fig. 1 – Drawdown pressure transient as response to opening a well for production (#1) and to production rate increase (#2)	Fig. 2 – Build-up pressure transient as response to production rate decrease (#1) and to shutting down the production (#6).
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Fig. 3 – Injection pressure transient as response to opening a well for injection (#1) and to injection rate increase (#2)	Fig. 4 – Fall-off pressure transient as response to injection rate decrease (#1) and to shutting down the injection (#2).

See Also

[Petroleum Industry](#) / [Upstream](#) / [Subsurface E&P Disciplines](#) / [Well Testing](#) / [Pressure Testing](#)

[[Well & Reservoir Surveillance](#)] [[Pressure Diffusion](#)] [[Pressure Transient Analysis \(PTA\)](#)]

