

Productivity Diagnostics

A group of methods assessing the [productivity index \(J\)](#) of a [well](#).

The direct methods (called [J-plots](#)) assume that both [drain-area formation pressure](#) and [bottomhole pressure](#) data is available, at least in select time moments:

Unweighted J-plot	t-weighted J-plot	q-weighted J-plot	Hall Plot
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Comprehensive comparison of various [J-plots](#) can be found [here](#).

In case the [drain-area formation pressure](#) is not available the value of [Productivity Index](#) can be estimated from:

IPR	PTA	RTA	DCV	CRM
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See Also

[Petroleum Industry](#) / [Upstream](#) / [Production](#) / [Subsurface Production](#) / [Field Study & Modelling](#) / [Production Analysis](#)

[[J-plots](#)] [[t-weighted J-plot](#)] [[q-weighted J-plot](#)] [[Hall Plot](#)]

[[Inflow Performance Relationship \(IPR\)](#)] [[Pressure Transient Analysis \(PTA\)](#)] [[Rate Transient Analysis \(RTA\)](#)] [[Pressure Deconvolution \(DCV\)](#)] [[Capacitance Resistance Model \(CRM\)](#)]