

SS diagnostics

Hall plot

Plotting $P(t) = \int_0^t (p_{wf}(\tau) - p_e(\tau)) d\tau$ VS $Q(t) = \int_0^t q_i(\tau) d\tau$

It shows unit slope for [Steady-State flow regime](#):

$$(1) \quad P(t) = J^{-1} Q(t)$$

where

$J = \text{const}$	constant productivity index
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Although it is equally applicable to both producers and injectors, due to pressure data availability in practical cases the hall plot sought the most of its applications for water injectors.

See Also

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

[0D Material Balance @model](#)