

PCT Interpretation Workflow

	Action
1	Synchronize BHP gauges
2	Stack BHP data with wavelet filter
3	De-tidal the BHP
4	Calculate total sandface flowrate (see also below)
5	Correct the flowrates
6	Create multi-well history plot
7	Analyze data and trim the irrelevant data
8	Decompose DTR/CTR
9	Assess apparent transmissibility / diffusivity
10	Perform numerical tests and compare with PCT DTR/CTR

Multi-layer specifics

	Action	Mathematics	Comments
1	Assess total sandface flowrate : q_t across the pulsing unit (from QZI log) bottom-hole pressure p_{wf} formation pressure p_e		Assuming that recent PLT is available, both flowing and shut-in survey
2	Calculate productivity index	(1) $J = \frac{q_t}{p_e - p_{wf}}$	
3	Calculate pulsing flowrate history across target formation during PCT	(2) $q_t(t) = J \cdot (p_e - p_{wf}(t))$	Assuming that formation pressure did not change much between PLT and PCT survey

See Also

[Petroleum Industry](#) / [Upstream](#) / [Subsurface E&P Disciplines](#) / [Well testing](#) / [PCT](#)

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