

Well Testing = WT

@wikipedia

Part of [Well & Reservoir Surveillance](#) and one of the [Subsurface E&P Disciplines](#), related to measuring well [volumetric flow rate](#) and [wellbore pressure](#) in one or few selected wells and analysing pressure-rate correlation.

Unlike [production analysis](#) which normally covers a time period from few months to many years, [well tests](#) are rather short and normally take from few hours to few weeks.

The quantitative interpretation is based on:

- [pressure diffusion model](#) with a purpose of [dynamic reservoir properties](#) analysis
- [well completion](#) model with a purpose of [Leak Detection](#)

There are different ways to classify the [well tests](#).

One way is to split [well tests](#) into two major categories:

Pressure Tests	Flowrate Tests
DST – Drill Stem Test	SBT – Separator Bulk Test
WFT – Wireline Formation Test	Surface Multiphase Flowmeter
SGS – Static Gradient Survey	Downhole Multiphase Flowmeter
PTA – Pressure Transient Analysis	

The other way is to split [well tests](#) by the location where the measurements are taken and the well completion status:

Surface Well Tests	Subsurface Well Tests	
	Open-Hole Well Tests	Cased-Hole Well Tests
Surface Flowmeter	DST – Drill Stem Test	Downhole Flowmeter
SBT – Separator Bulk Test	WFT – Wireline Formation Test	SGS – Static Gradient Survey
		PTA – Pressure Transient Analysis

Third way is to split [well tests](#) by number of wells involved:

Single-Well Tests	Multi-Well Tests
Flowrate Testing	PIST – Pressure Interference Step Test (as version of PTA)
SGS – Static Gradient Survey	PICT – Pressure Interference Pulse Test (as version of PTA)
DST – Drill Stem Test	

WFT – Wireline Formation Test	
Drawdown Test (DD) (as version of PTA)	
Injection Test (INS) (as version of PTA)	
Build-up Test (BUS) (as version of PTA)	
Fall off Test (FOS) (as version of PTA)	
MRST – Multirate Step Test (as version of PTA)	
SPT – Self-Pulse Test (as version of PTA)	

See Also

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

[[Well & Reservoir Surveillance](#)]

Reference

[SPE](#) – John P. Spivey and W. John Lee, Applied Well Test Interpretation, SPE Textbook Series Vol. 13, 2013

[Fekete](#) – Reference Materials