Middle Time Response = MTR

The initial time interval of the pressure transient during which bottom-hole pressure is dominated by boundary-free reservoir flow, for example IARF (see MTR at **Fig. 1**)

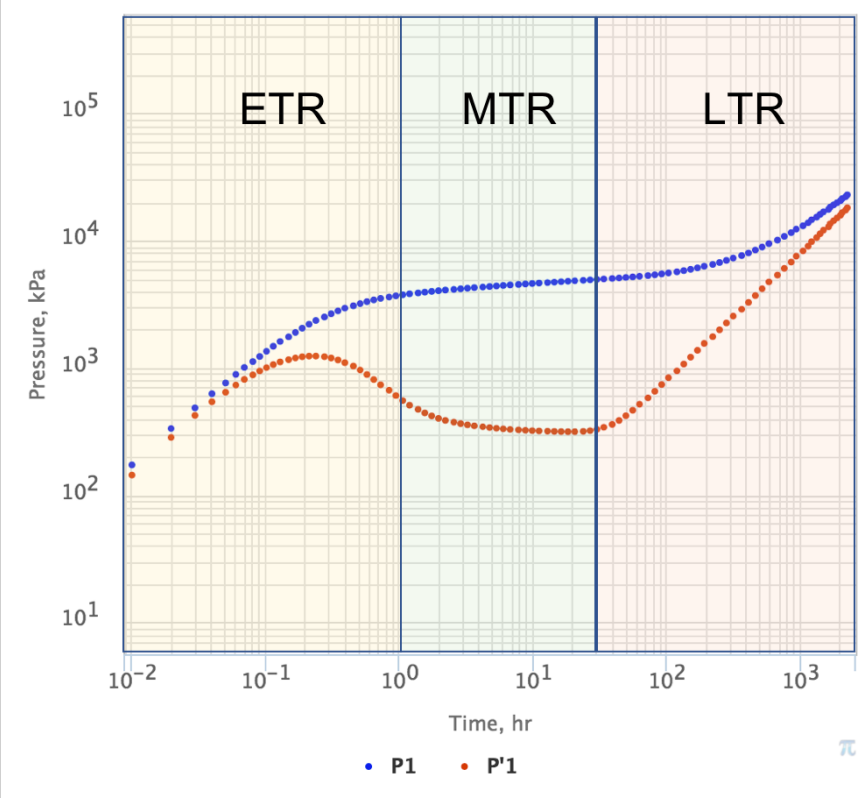

Fig. 1. PTA Diagnostic Plot with ETR, MTR and LTR time zones.

Pressure drop is in blue and log-derivative is in red.

In small-volume reservoirs with high permeability the LTR may occur immediately after the ETR.

In some cases the wellbore storage and well-reservoir contact may extend ETR all the way up to LTR.

In these case the MTR may not be observed on PTA Diagnostic Plot.

See Also

Petroleum Industry / Upstream / Subsurface E&P Disciplines / Well Testing / Pressure Testing / Pressure Transient Analysis (PTA) / PTA Diagnostic Plot

[Well & Reservoir Surveillance] [Pressure Diffusion] [Infinite-acting radial flow (IARF)] [ETR] [LTR]