

Flowing Material Balance Analysis = FMB

Specific type of [Production Analysis \(PA\)](#) workflow based on correlation between single-well or multi-well [production /injection history](#) and [BHP](#).

The key assumption of [FMB](#) is a [pseudo-steady state](#) correlation between [cumulative offtakes/intakes](#) and [BHP](#) dynamics.

It does not require new data acquisition at well site and makes use of existing dynamic data records.

There are two major engines of [MatBal](#) analysis:

MatBal Pressure @model
Formation pressure model only

Objectives

Check if the field is under volume-constrained production (PSS)
Assess drainage volume
Assess reservoir compressibility
Check if water and gas propagation match uniform sweep model
Verify oil/gas FVF

See Also

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

[[FMB Pressure @model](#)] [[Material Balance Flow @model](#)]

[[Material Balance Analysis \(MatBal\)](#)]