

Homogenous Reservoir

Subsurface reservoir with properties staying constant across the reservoir volume:

Mobility	Effective porosity	Total compressibility	Effective formation thickness
$M(\mathbf{r}) = M = \text{const}$	$\phi(\mathbf{r}) = \phi = \text{const}$	$c_t(\mathbf{r}) = c_t = \text{const}$	$h(\mathbf{r}) = h = \text{const}$

There are no [homogenous reservoir](#) in real life but the concept plays important academic role and also has a good number of practical applications to characterize the distributed field properties with some average value.

See also

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