

Water phase pressure = pw

Reservoir pressure of the water phase p_w :

3-phase Oil + Gas + Water fluid model	(1) $p_w = p + \frac{1}{3}(-2P_{cow} + P_{cog})$
2-phase Oil + Water fluid model	(2) $p_w = p - \frac{1}{2} P_{cow}$
2-phase Gas + Water fluid model	(3) $p_w = p - \frac{1}{2} P_{cgw}$

where

p	Average phase pressure
P_{cog}	Oil-Gas capillary pressure
P_{cow}	Oil-Water capillary pressure
P_{cgw}	Gas-Water capillary pressure

See also

[Natural Science](#) / [Physics](#) / [Fluid Dynamics](#) / [Percolation](#) / [Phase pressure](#)

[[Capillary pressure](#)] [[Average phase pressure](#)] [[Oil phase pressure](#)][[Gas phase pressure](#)][[Water phase pressure](#)]