

Bw water FVF McCain correlation @model

(1)	$B_w = (1 + \Delta V_{wp}) \cdot (1 - \Delta V_{wT})$
Petroleum field units	
(2)	$\Delta V_{wp} = -1.0001 \cdot 10^{-2} + 1.33391 \cdot 10^{-4} \cdot T + 5.50654 \cdot 10^{-7} \cdot T^2$
(3)	$\Delta V_{wT} = -1.95301 \cdot 10^{-9} \cdot p \cdot T - 1.72834 \cdot 10^{-13} \cdot p^2 \cdot T - 3.58922 \cdot 10^{-7} \cdot p - 2.25341 \cdot 10^{-10} \cdot p^2$
(4)	$T < 260^\circ F, \quad p < 5,000 \text{ psi}$

See Also

[Petroleum Industry](#) / [Upstream](#) / [Petroleum Engineering](#) / [Subsurface E&P Disciplines](#) / [Reservoir Engineering \(RE\)](#) / [PVT correlations](#) / [PVT Water correlations](#)

Reference

1. McCain, W.D. Jr.: McCain, W.D. Jr. 1990. The Properties of Petroleum Fluids, second edition. Tulsa, Oklahoma: PennWell Books.
2. McCain Jr., W.D. 1991. Reservoir-Fluid Property Correlations-State of the Art (includes associated papers 23583 and 23594). SPE Res Eng 6 (2): 266-272. SPE-18571-PA. <http://dx.doi.org/10.2118/18571-PA>

Attachments

[Bw.xlsx](#)