Water formation volume factor = Bw

Formation Volume Factor (FVF) for water:

(1) $$B_w(p,T) = \frac{\rho_w^\circ}{\rho_w} = \frac{V_w}{V_{Ww}^\circ} = \frac{q_w}{q_{Ww}}$$

The popular model for predicting Bw as a function of temperature and pressure is given by McCain Bw correlation.

The value of Bw is usually below 1.0.

See Also

Petroleum Industry / Upstream / Subsurface E&P Disciplines / Fluid (PVT) Analysis / Dynamic fluid properties

[Formation Volume Factor (FVF)][Oil formation volume factor (Bo)][Gas formation volume factor (Bg)]

[McCain Bw correlation]

Attachments

Bw.xlsx