

Glaso (1980) saturated oil formation factor Bo @model

Saturated oil formation volume factor	B _o	psia	p p _b	$B_o(p,T) = 1.0 + 10^A, \quad A = c_1 + c_2 \log_{10} B_{ob}^* + c_3 (\log_{10} B_{ob}^*)^2$ $B_{ob}^* = R_s(p,T) \left(\frac{\gamma_g}{\gamma_o} \right)^{c_4} + c_5 T$ $c_1 = -6.58511, \ c_2 = 2.91329, \ c_3 = -0.27683, \ c_4 = 0.526, \ c_5 = 0.968$
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where

p	psia	Fluid pressure
T	°F	Initial formation temperature
γ _{API}	°API	Oil API gravity
γ _o	frac	Oil specific gravity
γ _g	frac	Gas specific gravity
R _s	scf/stb	Solution Gas Oil Ratio

See Also

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

[[Glaso \(1980\) oil correlations](#)]

References

Glaso, Oistein. "Generalized Pressure-Volume-Temperature Correlations." J Pet Technol 32 (1980): 785–795. doi: <https://doi.org/10.2118/8016-PA>