

Standing (1942) saturated oil formation volume factor Bo(p) @model

Saturated oil formation volume factor	B _o	bbl /stb	p p _b	$B_o(p,T) = c_1 + c_2 \cdot \left[R_s(p,T) \left(\frac{\gamma_g}{\gamma_o} \right)^{c_4} + c_3 T \right]^{c_5}$ $c_1 = 0.972 \text{ , } c_2 = 1.47 \cdot 10^{-4} \text{ , } c_3 = 1.25 \text{ , } c_4 = 0.5 \text{ , } c_5 = 1.175$
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where

Location		California
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

See Also

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

[[Standing \(1942\) oil correlations](#)]

References

[Standing, Marshall B., and Donald L. Katz. "Density of Natural Gases." Trans. 146 \(1942\): 140–149, doi.org/10.2118/942140-G](#)