

Petrosky–Farshad (1995) undersaturated oil viscosity o @model

Undersaturated oil viscosity	o	cp	p > p _b	$\mu_o(p,T) = \mu_{ob} + c_5 \cdot (p - p_b) \cdot 10^4$ $A = c_1 + c_2 \cdot \log(\mu_{ob}) + c_3 \cdot [\log(\mu_{ob})]^2 + c_4 \cdot [\log(\mu_{ob})]^3$ $c_1 = -1.0146, c_2 = 1.3322, c_3 = -0.4876, c_4 = -1.15036, c_5 = 1.3449 \cdot 10^{-3}$
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where

μ_{ob}	cp	oil viscosity at bubble point pressure p _b
p	psia	Fluid pressure
p_b	psia	Bubble point pressure

See Also

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

[[Petrosky–Farshad \(1993 - 1995\) oil correlations](#)]

References

Petrosky, G.E., and F.F. Farshad. "Viscosity Correlations for Gulf of Mexico Crude Oils." Paper presented at the SPE Production Operations Symposium, Oklahoma City, Oklahoma, April 1995. doi: <https://doi.org/10.2118/29468-MS>