

## Petrosky–Farshad (1993) bubble point pressure Pb @model

Bubble point pressure	<b>p<sub>b</sub></b>	psia	$p_b = c_1 \cdot \left[ \frac{R_s^{c_2}}{\gamma_g^{c_3}} \cdot 10^X + c_4 \right], X = c_5 T^{c_6} + c_7 \gamma_{API}^{c_8}$ $c_1 = 112.727, c_2 = 0.5774, c_3 = 0.8439, c_4 = -12.340$ $c_5 = 4.561 \cdot 10^{-5}, c_6 = 1.3911, c_7 = -7.916 \cdot 10^{-4}, c_8 = 1.5410$
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where

<i>p</i>	psia	Fluid pressure
<i>T</i>	°F	Initial formation temperature
$\gamma_{API}$	°API	Oil API gravity
$\gamma_o$	frac	Oil specific gravity
$\gamma_g$	frac	Gas specific gravity

## See Also

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

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

## References

Petrosky, G.E., and F.F. Farshad. "Pressure-Volume-Temperature Correlations for Gulf of Mexico Crude Oils." Paper presented at the SPE Annual Technical Conference and Exhibition, Houston, Texas, October 1993. doi: <https://doi.org/10.2118/26644-MS>