عنوان مقاله:

A New Correlation for Prediction of Undersaturated Light Oil Viscosity

محل انتشار:

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خلاصه مقاله:

Viscosity is one of the most important governing parameters of the fluid flow, either in the porous media or in pipelines. Whenever laboratory data are obtained, efforts are made to find a best-fit correlation, because demand for mathematical equation of fluid flow for reservoir simulation, pressure traverse calculation and so on compel the person to use empirical and semi-empirical correlations to find viscosity at various points of the flow path (along which T, P, Rs and other parameters may vary). This paper reviews the most widely used oil viscosity correlations and proposes a new correlation to predict undersaturated light oil viscosity based on experimental data and computer manipulations

کلمات کلیدی:

viscosity; undersaturated, saturated and dead oil; API gravity

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