

Shale hydrocarbon potential of talang akar and lemat/lahat formations in south and central Palembang sub-basin / Julikah, Sriwijaya, Jonathan S., Panuju

Julikah, author

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Abstrak

ABSTRACT

South and Central Palembang Sub-basins have shale hydrocarbon which are considerably promising in the Talang Akar and Lemat/Lahat Formations. Seismic interpretation results shows potential of shale hydrocarbon scattered in several areas around the Rukam-1, Kemang-1, Singa-1 and Tepus-1 wells. Generally, thermal modeling results indicate early maturity of oil on the value of $R_o = 0.6\%$ at about 2000m depth (h), the oil generation value $R_o = (0.7-0.9)\%$ at between (2200 - 3100)m depth and the oil generation R_o values between (0.9-1.2)% at a depth between (3100-3500m, Talang Akar and Lahat/Lemat Formations have a shallow marine depositional environment with Type II/III kerogen and lacustrine with Type III kerogen respectively. Based on advanced seismic data processing (seismic attributes and spectral decomposition) these areas are expected to have $TOC > 2\%$. The calculation (P-50) of potential unconventional oil and gas resources at Talang Akar and Lahat/Lemat Formations is estimated to be fairly large (up to 4200 MMBOE)

(Author)