



GeoNeurale

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-Postdoctoral and doctorand training for Geoscientists and Engineers
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Module 3. **Carbonate Petrophysics**

The Lucia classification.
Wellbore proximity sectors on carbonate formations.
Vp-Porosity and parameters controlling Vp.
NMR and porosity partitioning.
Pc curves in the context of Lucia carbonate classification.
Winland R35 in the context of Lucia carbonate classification.
Swirr and flow units in the context of Lucia carbonate classification.
Pc curve, NMR, R35, Ka-PHI: reservoir system quality and performance.
Petrofacies and NMR T2 distribution.
Vuggy porosity.
m structural parametrization: VPR and Brie model.
Porosity partitioning in the m Dual Porosity equation.
The modified Myers model.
m and porosity type.
n exponent, Wettability and NMR porosity typing.

PICKETT PLOT INTERPRETATION.
Effects of petrophysical parameters on the Pickett plot:
Sw, m, Rw, n, BVW, Tau, K.
Buckle/Pickett parallel effects: BVW, Sw, K, m.