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Integrated Petrophysical and Reservoir Characterization Workflow to Enhance Permeability and Water Saturation Prediction

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Highlights

1. In this paper the concept of lithofacies was used on actual data from more than 20 carbonate wells to enhance the permeability prediction from well logs
2. Pattern recognition algorithms were used to classify and cluster the data that yielded different lithofacies from the log data
3. Good permeability estimation was obtained after applying the lithofacies classification techniques.
4. Water saturation model was constructed based on the lithofacies identified in different wells.

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