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# Wettability Restoration of Limestone Cores Using Core Material From the Aqueous Zone

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## Abstract

In the struggle to mimic the wetting state of a limestone reservoir, strongly water wet preserved cores from the aqueous zone have been used. By exposing the cores to the reservoir crude oil and formation water, the authors tried to mimic core properties from the oil leg. Wettability and oil recovery of restored cores were compared, confirming that both wettability and oil recovery depended on the fluids used in the cleaning process. When the preserved cores from the water zone was cleaned mildly and restored to the original state, the wettability was significantly improved. However, the restored cores (reference cores) showed a higher oil recovery than the same restored cores.

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