

Diagenesis and Mineralogy Of Nahr Bin Umr Formation (Albian) in Suba Oil Field – Southern Iraq

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Abstract

Mineralogy and diagenesis of Nahr Bin Umr Formation sandstone in Suba oil field were studied by microscopic examination of 96 thin sections and X- ray diffraction technique. The mineralogical study revealed that quartz form the dominant clastic minerals. whereas, kaolinite form the essential clay minerals which demonstrate the long distant of transportation and the multi cycles of sedimentation . Compaction, pressure solution, cementation, replacement, and dissolution, form the main outstanding diagenesis processes. The first three processes causing the formation damage, while the last two processes enhance the reservoir properties.