

Several ionic liquids (ILs) were screened with Saudi medium crude oil based on different factors. The ionic liquid concentration, brine salinity, brine composition and reservoir conditions of pressure and temperature were investigated on the chosen ionic liquid- crude oil interfacial tension (IFT). Ionic liquid ability to crack asphaltene chains in crude oil and dynamic adsorption for ionic liquid were also tested. Finally, different flooding scenarios were conducted on Berea sandstone rocks at reservoir conditions to investigate the effectiveness of the chosen ionic liquid in improving oil recovery

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