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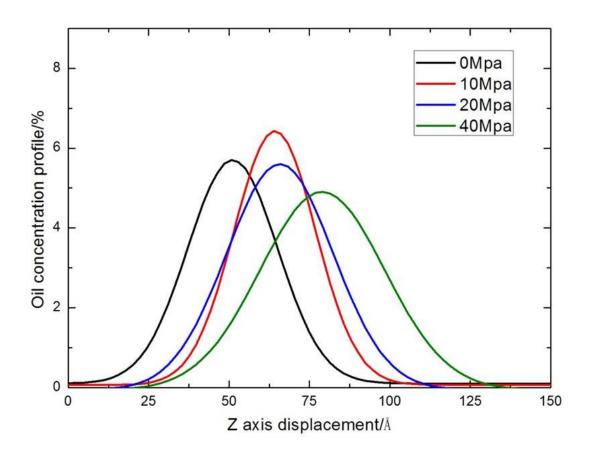


Figure s1. Oil concentration profile in final configuration of N_2 driving oil transport in shale channel with N_2 initial pressure of 0 Mpa, 10 Mpa, 20 Mpa and 40 Mpa.