

# Supplementary Information

## Influence of Temperature on the Adsorption and Diffusion of Heavy

### Oil in Quartz Nanopore: A Molecular Dynamics Study

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**Table S1** Experimental[1] and simulated density of heavy oil

Pressure (MPa)	Experimental density (g/mL, 296 K)	Pressure (MPa)	Simulated density (g/mL, 298 K)
1.99	1.0093	2	0.8929
4.02	1.0101	5	0.8958
6.00	1.0110	10	0.9049
8.00	1.0120	15	0.9063
10.01	1.0129	~	~

## References

1. Nourozieh, H.; Kariznovi, M.; Abedi, J., Density and Viscosity of Athabasca Bitumen Samples at Temperatures Up to 200°C and Pressures Up to 10 MPa. *SPE Reserv. Evaluation Eng.* **2015**, 18, (03), 375-386.