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## **Supporting information**

## **Figure content**

Figure S1 Comparison of the predicted CO<sub>2</sub>-oil MMP under pure CO<sub>2</sub> between this work and references.

Figure S2 Comparison of the predicted CO<sub>2</sub>-oil MMP under  $x_{CO_2} < 0.5$  between this work and references.

Figure S3 Comparison of the predicted CO<sub>2</sub>-oil MMP under  $x_{CO_2>0.5}$  between this work and references.



Figure S1 Comparison of the predicted CO<sub>2</sub>-oil MMP under pure CO<sub>2</sub> between this work and references (•, this work;  $\bigstar$ , Li et al.; \*, Shokir;  $\circ$ , Emera and Sarma;  $\times$ ,

GlasØ; +, Alston et al.)



Figure S2 Comparison of the predicted CO<sub>2</sub>-oil MMP under  $x_{CO_2} < 0.5$  between this work and references (•, this work; \*, Shokir;  $\circ$ , Emera and Sarma; ×, Sebastian et al.; +, Alston et al.)



Figure S3 Comparison of the predicted CO<sub>2</sub>-oil MMP under  $x_{CO_2}>0.5$  between this work and references (•, this work; \*, Shokir;  $\circ$ , Emera and Sarma;  $\times$ , Sebastian et al.;

+, Alston et al.)