APPENDIX

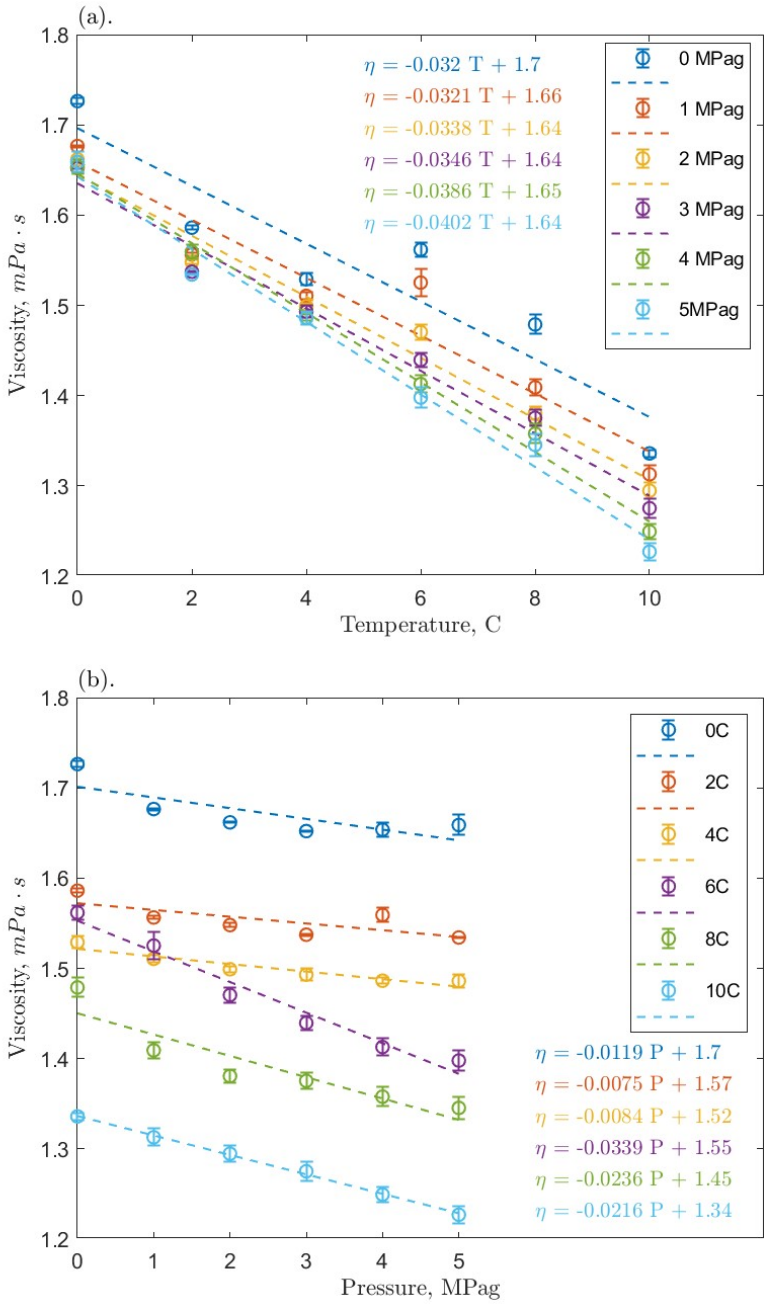


**Figure A1.** Effect on the measured viscosity of the 0.1 ppm O-MWCNT-methane-water system of (a) temperature and (b) pressure; error bars represent the 95% confidence intervals on the measured mean viscosity.

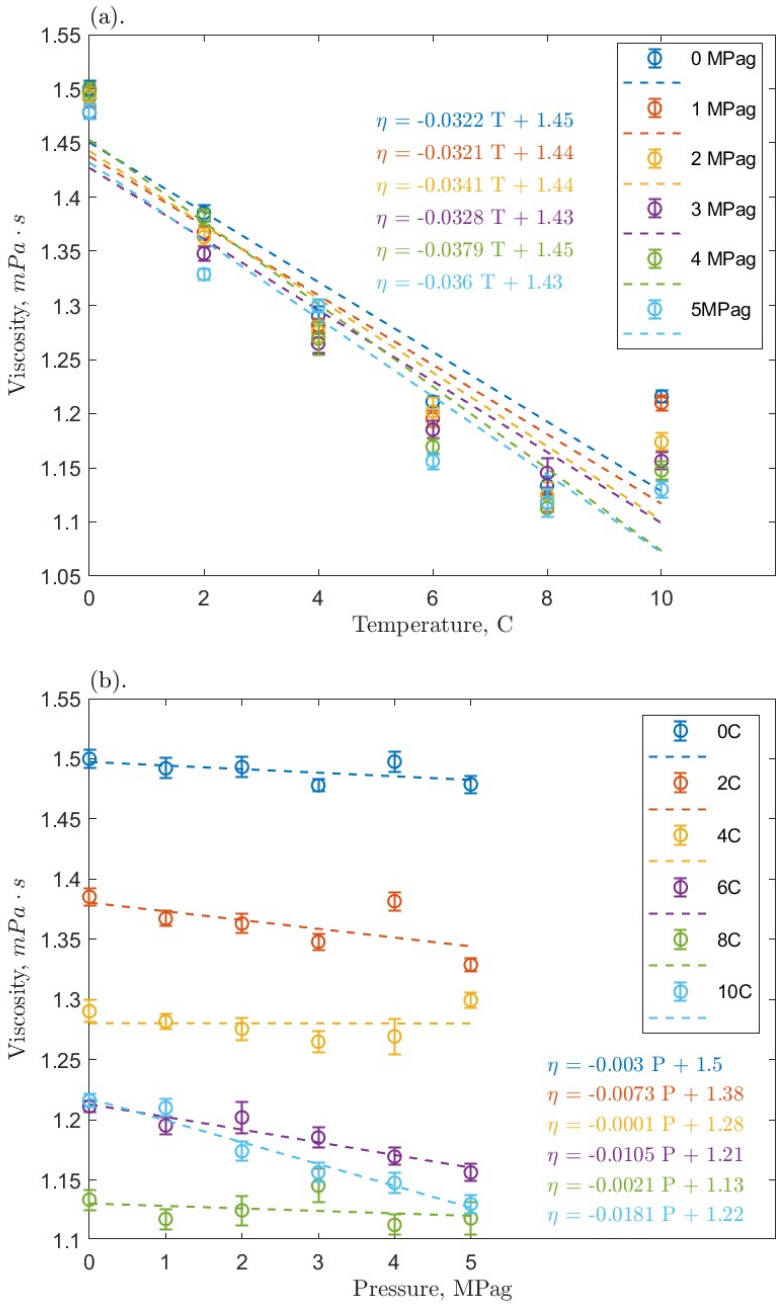


**Figure A2**. Effect on the measured viscosity of the 10 ppm O-MWCNT-methane-water system of (a) temperature and (b) pressure; error bars represent the 95% confidence intervals on the measured mean viscosity.

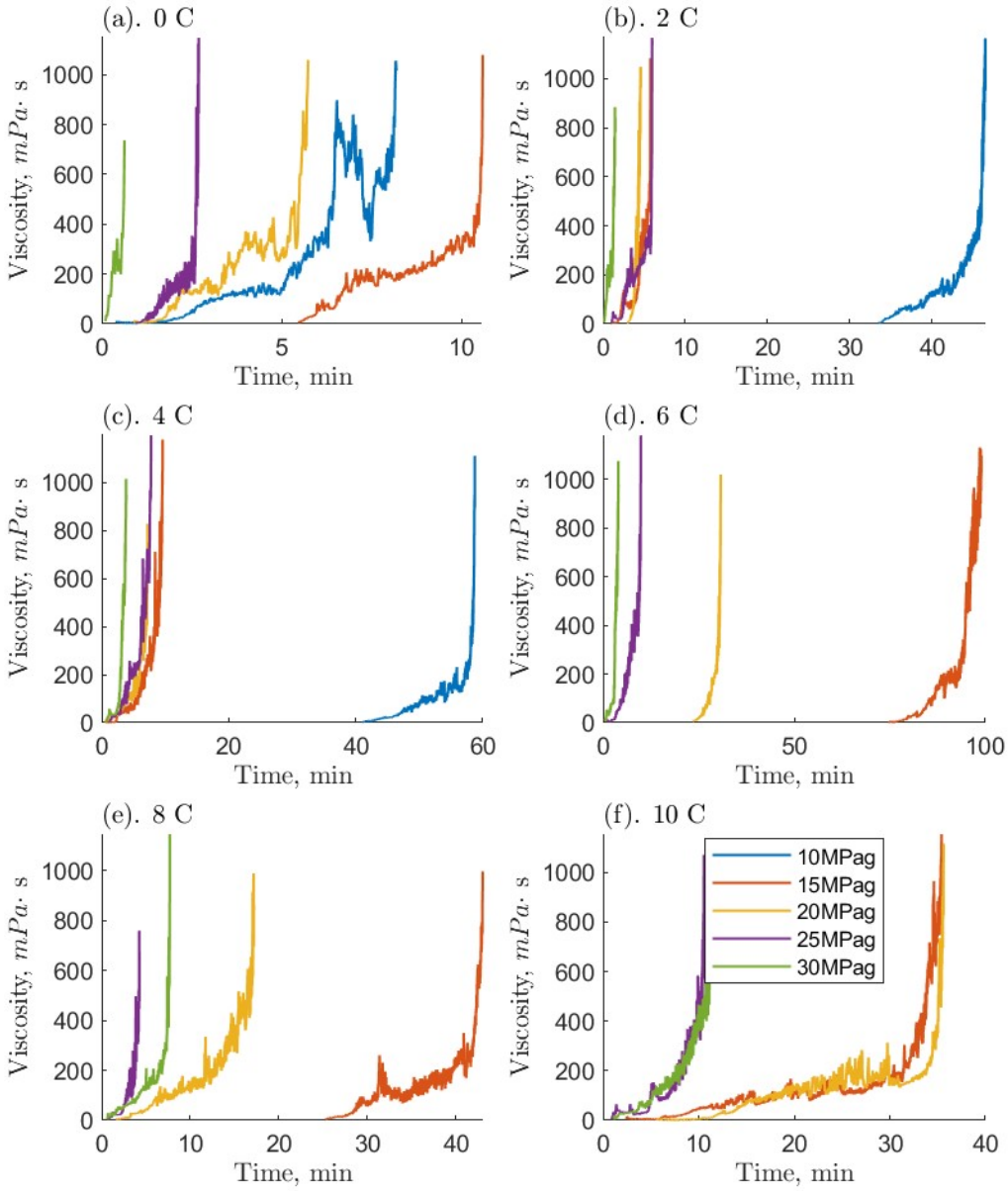


**Figure A3.** Measured temporal viscosities of the 0.1 ppm O-MWCNT-methane-water systems where hydrate formation occurred. Each subpanel (a-f) separates runs by temperature and contains isobaric viscosity time series starting at the onset of hydrate formation.

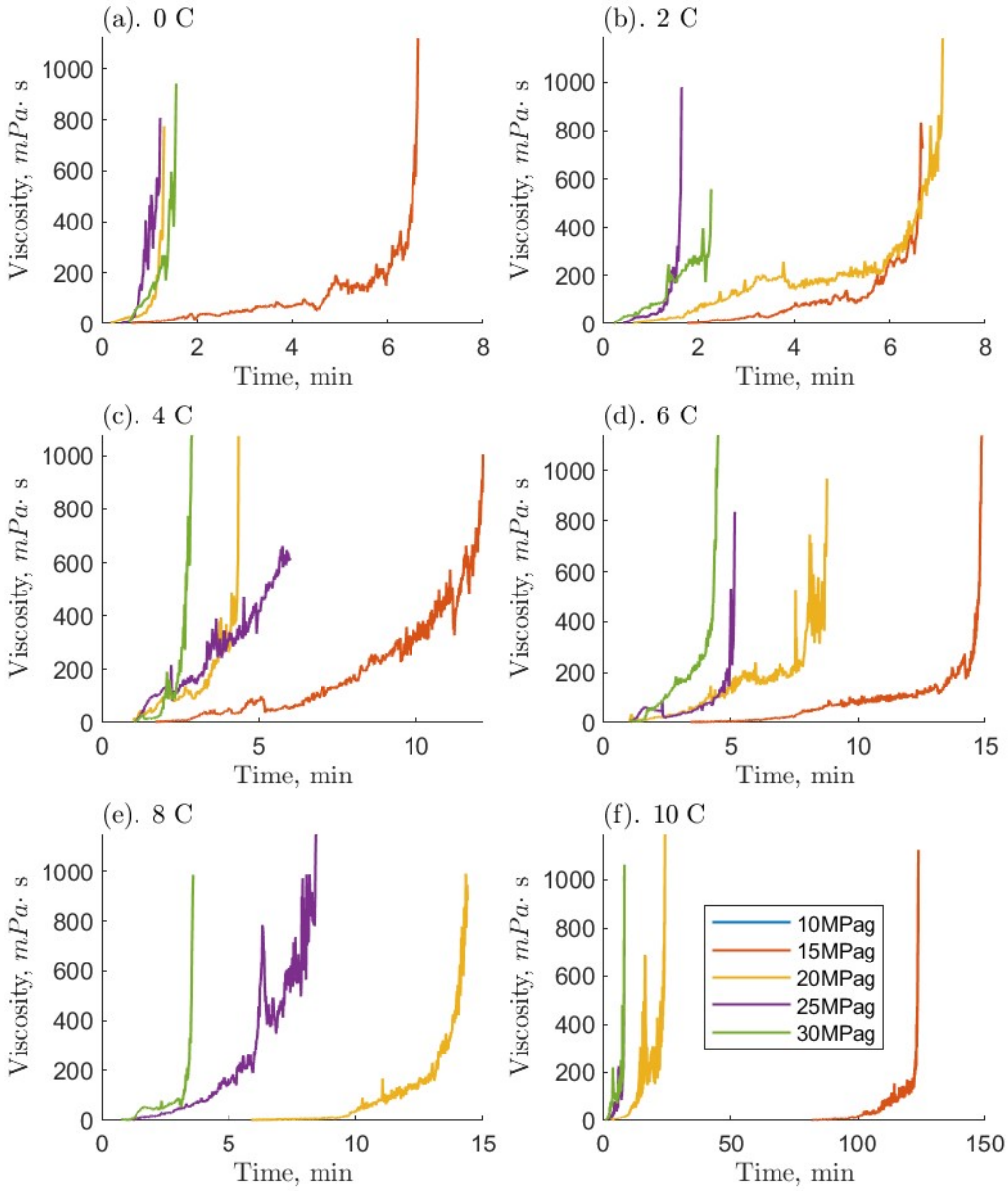


**Figure A4.** Measured temporal viscosities of the 10 ppm O-MWCNT-methane-water systems where hydrate formation occurred. Each subpanel (a-f) separates runs by temperature and contains isobaric viscosity time series starting at the onset of hydrate formation.

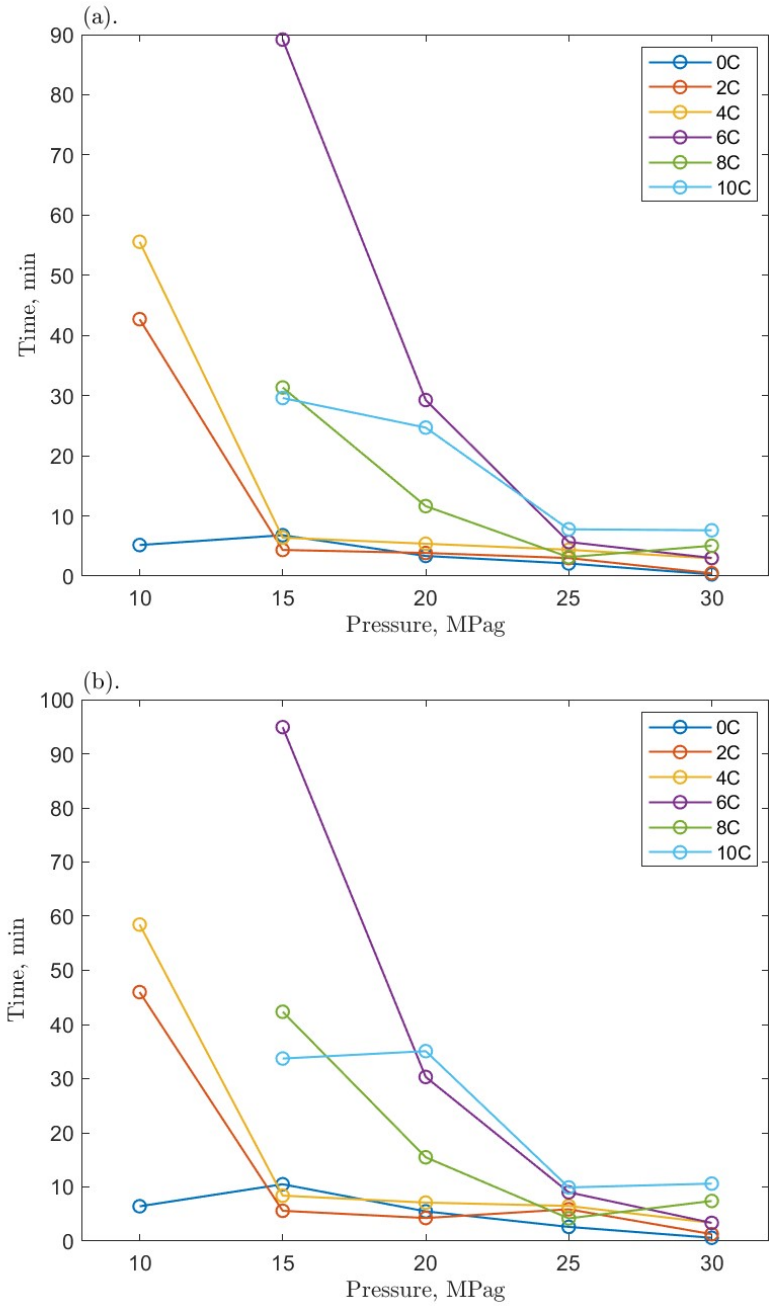


**Figure A5.** The time required for the 0.1 ppm O-MWCNT-methane-water system to reach (a) 200 mPa·s and (b) 500 mPa·s from the onset of hydrate formation at various pressures.

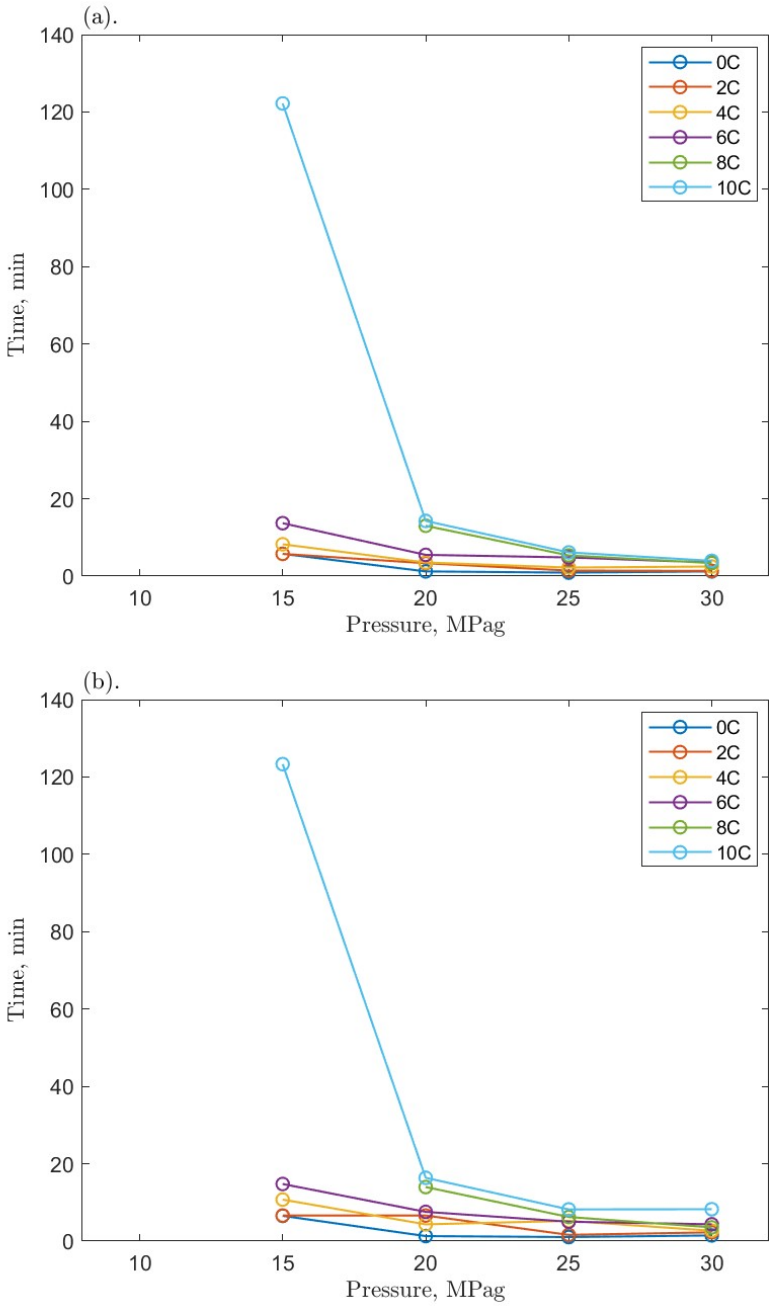


**Figure A6.** The time required for the 10 ppm O-MWCNT-methane-water system to reach (a) 200 mPa·s and (b) 500 mPa·s from the onset of hydrate formation at various pressures.