

**Dynamics on the Microsecond Timescale in Hydrous Silicates
Studied by Solid-State ^2H NMR Spectroscopy**

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Supplementary Information

Figure S1: ^2H static NMR spectra of OD-clinohumite recorded with a quadrupolar echo pulse sequence at (a, b) 298 K and (c, d) 313 K, with a τ interval of (a, c) 50 μs and (b, d) 250 μs , respectively. Spectra were recorded at $B_0 = 9.4$ T with (a) 1808, (b) 1488, (c) 3072 and (d) 1824 transients, using a recycle interval of 30 s.

