GSA Data Repository Item 2020084


Data Repository

**Figure DR1.** Basaltic sill in the Shexing Formation. Cross-cutting relationship and Chilled margins indicate that these basaltic rocks are intrusive rather than volcanic.

**Table DR1.** Youngest detrital-zircon U–Pb ages of sandstone samples from the Shexing Formation.

**Table DR2.** Stratigraphic data for calculation of tectonic subsidence.

**Table DR3.** Petrographic composition of sandstones from the Shexing Formation.

**Table DR4.** U–Pb ages of detrital zircons from sandstones of the Shexing Formation.

**Table DR5.** Hf isotopic data of detrital zircons from sandstones of the Shexing Formation.
A Basaltic sill
B Shexing Formation

B Chilled margin
Baked sediments