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Geochemistry and tectonic implications of the Early Carboniferous Keketuobie intrusion in the West Junggar foldbelt, NW China

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1 **Geochemistry and tectonic implications of the Early Carboniferous Keketuobie**
2 **intrusion in the West Junggar foldbelt, NW China**

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13
14 **Abstract:** The Keketuobie intrusion is situated in the northern part of the West
15 Junggar foldbelt at the southern margin of the Central Asian Orogenic Belt. The
16 intrusion consists of medium- to coarse-grained gabbro, fine-grained gabbro and
17 diorite. Igneous zircons from the medium- to coarse-grained gabbro yielded a
18 LA-ICP-MS U-Pb age of 320.8 ± 5.7 Ma, indicating that the intrusion was emplaced in
19 the Early Carboniferous. The intrusive contact between the medium- to coarse-grained
20 gabbro and the fine-grained gabbro indicates they formed from distinct magma pulses.
21 Magnetite crystals from the fine-grained gabbro have lower V_2O_3 but higher TiO_2 and

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