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准噶尔盆地侏罗统八道湾组震积岩的发现及其研究意义 [点此下载全文](#)

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摘要:

准噶尔盆地是中—新生代陆内拗陷盆地与海西期前陆盆地相叠加的大型复合叠合盆地。自石炭纪以来的多次构造叠加作用形成了准噶尔盆地西北缘的前陆冲断带, 盆地基底长期剧烈的构造活动控制和影响着下侏罗统八道湾组的沉积作用。笔者等通过岩芯分析, 首次在该盆地侏罗统八道湾组不同层位的地层中识别出微褶皱层、地裂缝、阶梯状正断层、液化砂岩构造和震积角砾岩等典型的震积地质记录, 说明早侏罗世研究区有频繁而强烈的地震活动, 这些地震活动与燕山运动有关。克乌断裂带在印支期以后仍处于频繁而强烈活动状态, 具有同沉积活动性质, 震积岩沿克乌断裂带发育, 显然受克乌断裂同沉积活动控制, 该断裂不断逆冲造成断层下盘的研究区基底持续沉降, 是震积构造迅速被掩埋并得以大量保存在地层记录中的重要原因。

关键词: [震积岩](#) [侏罗系](#) [燕山运动](#) [前陆盆地](#) [准噶尔盆地](#)

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Abstract:

Junggar basin is regarded as a large scale composite basin superimposed by intracontinental basin of Meso—Cenozoic and foreland basin of Hercynian. Multiple superimposing formed the fold—thrust zone in the northwestern Junggar foreland basin since Carboniferous. Long and severe tectogenesis of the basement control and impact the sediment of the Lower Jurassic Badaowan Formation. By analysis of core, micro corrugated lamination, earthquake rima, micro fractures, vibration liquefaction, earthquake breccias and other typical structures of seismites were first time identified from the Badaowan Formation. The seismites of the Badaowan Formation indicated that there were intense and frequent earthquakes in Junggar Basin in Early Jurassic which related to Yanshanian movement. The Kewu fault is a syn sedimentary fault because it moved strongly and frequently after Indosinian movement stage. Seismites developed along the Kewu faults suggested that it dominated by the syndepositional movement of the faults. The upper plate of the Kewu fault thrust in Junggar Basin that located the lower plate unceasingly and made the study area basement descending consecutively. The descending of basement is the most important cause of the seismites structures were buried quickly and conserved abundantly.

Keywords: [seismites](#) [Jurassic](#) [Yanshanian movement](#) [foreland basin](#) [Junggar basin](#)

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