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摘要:

分布于新疆伊犁盆地北缘尼勒克北于赞一带的下石炭统阿克沙克组, 下部为砾岩、砂砾岩、岩屑砂岩, 上部以生物碎屑灰岩、泥晶灰岩和鲕粒灰岩为主, 夹钙泥质粉砂岩, 富含早石炭世腕足、珊瑚、菊石、苔藓虫、层孔虫等化石, 厚度大于345m, 属滨海相浅滩亚相; 上部为砾岩、含砾粗砂岩、岩屑砂岩等粗碎屑岩, 厚度大于751m, 海相腕足、珊瑚、层孔虫等化石丰富, 属浅海相沉积。此次新确立的三角洲相建造与前人所述本组在伊宁地区均属浅海相沉积建造显著有别。结合区域资料, 认为该组为弧前深海半深海相沉积, 在中部阿吾拉勒北坡为弧后浅海相沉积, 而盆地北缘的于赞一带则为典型的扇三角洲相沉积。此次新确立的三角洲相建造与前人所述本组在伊宁地区均属浅海相沉积建造显著有别。结合区域资料, 认为该组为弧前深海半深海相沉积, 在中部阿吾拉勒北坡为弧后浅海相沉积, 而盆地北缘的于赞一带则为典型的扇三角洲相沉积。此次新确立的三角洲相建造与前人所述本组在伊宁地区均属浅海相沉积建造显著有别。结合区域资料, 认为该组为弧前深海半深海相沉积, 在中部阿吾拉勒北坡为弧后浅海相沉积, 而盆地北缘的于赞一带则为典型的扇三角洲相沉积。

关键词: [阿克沙克组](#) [扇三角洲相](#) [尼勒克北](#) [伊宁地块](#) [西天山](#)

Discovery of fan delta sedimentary environment and its significance in Lower Carboniferous Akeshake formation in Yuzan area, the northern of Nileke, western Tianshan Mountains [Download](#)

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Abstract:

The Lower Carboniferous Akeshake formation in the Nileke North Yuzan area of northern margin of the Tianshan Mountains is divided into three main sections: the lower section consists of conglomerate, sandy conglomerate and lithic sandstone, which have a thickness of more than 345m, which belongs to fan delta facies. The central section consists of micrite and oolitic limestone intercalated with relatively small amounts of calcium argillaceous rocks, various kinds of marine fossils of the Early Carboniferous, such as brachiopods, corals, ammonites, stromatoporoids, and have a thickness of 182.97m, which belongs to shallow subfacies of littoral facies. The upper section is a succession of coarse-grained elastic rocks, belonging to fan delta facies, mainly composed of pebbly sandstone and lithic sandstone, and have a thickness of more than 751m, in which marine brachiopods, corals, ammonites coexist with terrestrial plant fossils. The delta-facies construction of the new established is different from the shallow marine facies sedimentary construction that the predecessor referred to in the area. Combination of regional data confirm that the Lower Carboniferous in the southern Yining Basin is bathyal facies and in the central of Awulale mountains is back-arc shallow marine facies, however, the Lower Carboniferous in the northern margin of Yining Basin is typical delta facies. This new discovery confirms the Early Carboniferous paleogeography and palaeotectonic pattern in Yining Basin.

Keywords: [Akeshake Formation](#) [fan delta facies](#) [the northern Nileke](#) [Yining block](#) [western Tianshan](#)