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塔里木盆地巴楚地区石炭系层序地层学特征

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摘要: 对岩芯进行观察与描述, 对测井曲线与岩性的岩-电关系进行对比, 对地震反射特征进行研究, 并采用层序地层学对连井剖面进行对比。研究表明: 研究区石炭纪地层内反映海平面变化的地层旋回性十分清楚; 按层序划分的基本原则, 在石炭纪地层中可识别出6个层序边界, 相应地划分出5个层序, 其中至少有2个I型层序; 在I型层序内部, 低位体系域发育较差, 主要为侵蚀沟谷充填体系及山前的扇体系; 海侵体系域以碳酸盐岩沉积为主; 而高位体系域则表现为西南以碳酸盐岩为主, 向东北则逐渐过渡为广泛的碎屑潮坪或沼泽; 自生屑灰岩段沉积时开始, 巴楚地区西南缘构造沉降速率明显加快, 沉积厚度加大, 碳酸盐岩的含量也相应增加。

关键字: 层序地层; 层序边界; 石炭系; 巴楚地区

Sequence stratigraphy of Carboniferous at Bachu area, Tarim Basin

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Abstract: Based on the detailed observation and description of the rock cores, the contrast of rock-electricity relation between logging curve and lithology, and the study of seismic reflect character were carried out. Combining the observation of outcrop section and test analysis, Carboniferous stratum cycles that reflect sea level change were studied. Sequences correlation of wells tie was made. The results show that the Carboniferous stratum cycles are significantly clear in the study area. According to the basic laws of sequence dividing, six sequence boundaries can be recognized, accordingly, five sequences can be divided in Carboniferous stratum, and at least two sequences belongs to type I. The lowstand system tract doesn't present well in type I sequences, which presents incised channel infilling deposition and basin margin fan system deposition. Transgressive system tract mainly deposits carbonatite. Highstand system tract deposits carbonatite at adjacent basin zone, and changes into extensive clastic tidal flat or swamp deposit toward basin margin. Structure subsiding ratio of southwestern margin is accelerated, deposit thickness becomes thick, and carbonatite content increases.

Key words: sequence stratigraphy; sequence boundary; Carboniferous; Bachu area

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