

A coarsen up shoreface sequence characterized low angle planar bedding and hummocky cross-stratification and localized bioturbated zones. Grades up into foreshore/beach/barrier system with low angle to parallel bedding and rootlets. This is overlain by a lagoon/embayment shale and flotan coal.

Core 7 (9263-9283 ft) M. diversus

A series of coarsening-up estuary/embayment fill sands characterized by lenticular and wavy bedding and siderite concretions. Contains marine dinoflagellate cysts.

Core 8 (9426-9459 ft) M. diversus

Prograding stacked fluvial channel sequences overlying a shoreface/marsh facies. The coarse grained lower channel sands contain large (bank collapse) shale intraclast conglomerates and carbonized grass materials. The argillaceous shoreface sediments exhibit numerous vertical burrows, hummocky cross-stratification and low angle to horizontal planar stratification.

Core 9 (10058-10085 ft) M. diversus

Core 9 consists of a series of overall coarsening-up stacked fluvial channels. Lower sequences are channel abandonments characterized by medium-grained high angle planar bedded, and shale intraclast lags grading up into fine-grained sand exhibiting flaser, climbing and lenticular ripples.