

THE LOCATION OF THE LOWSTAND SYSTEMS TRACTS IN LACUSTRINE DEPOSITIONAL SEQUENCE ON THE SEISMIC SECTION IN THE EASTERN CHINA

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Where can we find lowstand systems tracts(LST)? There are three types of systems tracts, in general, in every sequence; but maybe it is not same one in the lacustrine sequence. We studied a lot of seismic section in the eastern sedimentary basin of China, such as Bohai Bay. A series of stacked LST can be found in some strata section which are some very good reservoir strata, for example in Guantao Member of Bohai Bay Basin; and no any one was found in other strata which may be some excellent source rock or caprock for example Lower Minhuazhen Member of Bohai Bay Basin. We think these strata form in some special time-interval, a period of remaining a lowstand or highstand sea level. So we called these strata as a composite systems tracts that means there are a series of stacked same systems tracts and no any or very fewer other systems tracts. We can find many discontinuity wavy, divergent, or chaotic reflection events in a composite LST section, which form a mound, wedge or fill types reflection units. It is usually a very good reservoir if it is overlaid by a composite transgressive systems tracts(TST) or highstand systems tract(HST), for example Sha San Section in Huabei Basin.