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渤海湾盆地惠民凹陷临商断层特征及其活动机制 [点此下载全文](#)

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摘要:

临商断层为济阳坳陷惠民凹陷内部NE向展布的控洼断层之一, 详细地分析这些断层的活动性对于深入了解以来惠民凹陷的差异分化具有重要的意义。本文通过详细解剖临商断层的几何学特征, 不同时期、位置的断层活动盆地的构造演化, 得出以下认识: ① 临商断层的雏形为一右旋走滑正断层。② 断层的主枝由西往东活动速率逐渐增强、两侧弱。③ 时间上的差异性表现为古近系沙河街组沙三段沉积期—古近系沙河街组沙二段沉积期断层的活动沙二段沉积期达到最高值, 而后逐渐减弱, 古近系东营组沉积期出现小规模增强, 新近系馆陶组沉积期断层活动组沉积期断层活动性开始增强。④ 空间上断层活动的差异主要是由于该断层走滑过程中形成的同向走滑断层的位与渤海湾盆地新生代的构造演化具有较好的一致性。

关键词: [渤海湾盆地](#) [惠民凹陷](#) [临商断层](#) [几何学](#) [断层活动速率](#)

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Abstract:

Linshang fault is one of the NE striking faults which controls the Huiming Sag in the Bohai tried to analyze the activity of these faults for understanding differentiation of the Huimin Sag a Member 3 of the Paleogene Shahejie Formation. By analyzing the fault geometry, activity of differen the Linshang fault, and the related Cenozoic structural evolution of the Bohai Bay Basin, this paper as following: ① The prototype of the Linshang fault is a dextral transtensional fault. ② The move segment gradually increases from west to east, and movement rates of the branch faults decrease from The movement rates of the fault are stronger during the depositing of the Member 3 to Member 2 of t Formation, reaching to the maximum during the depositing of the Member 2 of the Paleogene Shahejie decreasing, increasing a little during depositing of the Paleogene Dongying Formation, reaching to depositing of the Neogene Guantao Formation, and increasing during depositing of the Neogene Minghu difference of the fault activity at the different segments were controlled by the location of strik direction which formed with the strike slipping of the Linshang fault, and the differences at diff are consistent with the Cenozoic structural evolution of the Bohai Bay Basin.

Keywords: [Bohai Bay Basin](#) [Huiming Sag](#) [Linshang fault](#) [geometry](#) [fault movement rate](#)