



李理, 钟大赉, 时秀朋. 鲁西隆起和济阳拗陷新生代隆坳耦合关系[J]. 地质学报, 2007, 81(9): 1215-1228

鲁西隆起和济阳拗陷新生代隆坳耦合关系 [点此下载全文](#)

[李理](#) [钟大赉](#) [时秀朋](#)

中国石油大学地球资源与信息学院, 中国科学院地质与地球物理研究所, 中国石油大学地球资源与信息学院 山东东营, 257061, 北京, 100029, 山东东营, 257061

基金项目: 国土资源部油气专项(编号XQ-2004-03-01)资助的成果

DOI:

摘要点击次数: 133

全文下载次数: 101

摘要:

为探讨鲁西隆起的抬升史, 研究鲁西隆起和济阳拗陷之间的隆-坳演化关系, 进一步揭示渤海湾盆地的演化特征, 主要利用裂变径迹分析和裂变径迹t-T模拟方法建立了新生代鲁西隆起的抬升史和济阳拗陷的沉降史。鲁西隆起三期抬升史分别为62~53Ma、44~37Ma和23~20Ma, 济阳拗陷在65~46Ma和46~38Ma期间为快速构造沉降期, 构造沉降量大, 23Ma左右拗陷抬升。对比研究表明, 新生代鲁西隆起的抬升与济阳拗陷沉降之间存在隆-坳耦合关系。鲁西隆起的抬升控制了济阳拗陷烃源岩的形成、油气运移时间和油气分布由南向北迁移, 并为济阳拗陷古潜山油藏提供了有效的储集空间。研究还认为, 鲁西隆起与济阳拗陷的隆坳耦合关系是渤海湾盆地及周边山系盆地耦合事件的一个组成部分。

关键词: [隆坳耦合](#) [鲁西隆起](#) [济阳拗陷](#) [新生代](#)

Cenozoic Uplifting/Subsidence Coupling Between the West Shandong Rise and the Jiyang Depression, Northern China [Download Fulltext](#)

[LI Li](#) [ZHONG Dalai](#) [SHI Xiupeng](#)

1 Institute of earth science and information, China University of Petroleum, Shandong, Dongying, 257061; 2 Institute of the geology and geophysics, Chinese Academy of Science, Beijing, 100029

Fund Project:

Abstract:

This paper mainly studies the Cenozoic uplifting history of the West Shandong Rise and the subsidence of the Jiyang Depression in order to understand the uplifting history of the West Shandong Rise (WSR), the relationship between the WSR and the Jiyang Depression, further better our insights into the Bohai Bay Basin. Our AFT analysis and AFT t-T model indicates that there were three relatively rapid stages for uplifting of the West Shandong Rise: 62-53 Ma, 44-37 Ma and 23-20 Ma. Meanwhile, two rapid subsidence with big a big magnitude of subsidence at 65-46 Ma and 46-38 Ma, and one uplifting at 23 Ma also took place in the Jiyang Depression. Comparison study shows that the uplifting of the West Shandong Rise at Cenozoic coupled well with the subsidence of the Jiyang Depression. Furthermore, the uplifting events not only control the formation of hydrocarbon's mother rock, and the time, distribution and migration of oil-gas, but also provide a reservoir space for the oil-gas in the buried hills. Our research also suggests that the uplift-depression coupling events are part of the couplings between the Bohai Bay Basin and its peripheral mountains.

Keywords: [Uplift/subsidence coupling](#) [West Shandong rise](#) [Jiyang depression](#) [Cenozoic](#)

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)

您是第582554位访问者 版权所有《地质学报(中文版)》

地址: 北京阜成门外百万庄26号 邮编: 100037 电话: 010-68312410 传真: 010-68995305

本系统由北京勤云科技发展有限公司设计

