



2018年11月16日 星期五

EI收录

中文核心期刊

首页

石油地球物理勘探 » 2015, Vol. 50 » Issue (6): 1179-1189 DOI: 10.13810/j.cnki.issn.1000-7210.2015.06.020

地震地质

最新目录 | 下期目录 | 过刊浏览 | 高级检索

◀ 前一篇 | 后一篇 ▶

南海西部深水区台缘生物礁发育模式与成因背景

王超^{1,2,3}, 陆永潮^{2,3}, 杜学斌^{2,3}, 陈平^{2,3}, 陈雷^{2,3}, 焦祥燕^{2,3}

1 中国石化江汉油田分公司, 湖北潜江 433124;

2 中国地质大学(武汉)资源学院, 湖北武汉 430074;

3 中国地质大学(武汉)构造与油气资源教育部重点实验室, 湖北武汉 430074

Developmental pattern and genetic background of carbonate platform margin reef complexes in deep-water area in Western South China Sea

Wang Chao^{1,2,3}, Lu Yongchao^{2,3}, Du Xuebin^{2,3}, Chen Ping^{2,3}, Chen Lei^{2,3}, Jiao Xiangyan^{2,3}

1. Jiangnan Oilfield Branch Co., SINOPEC, Qianjiang, Hubei 433124, China;

2. Faculty of Earth Resources, China University of Geosciences(Wuhan), Wuhan, Hubei 430074, China;

3. Key Laboratory of Tectonics and Petroleum Resources of Ministry of Education, China University of Geosciences(Wuhan), Wuhan, Hubei 430074, China

摘要

图/表

参考文献

相关文章 (15)

全文: PDF (19915 KB) HTML (1 KB)

输出: BibTeX | EndNote (RIS)

摘要 本文基于高精度二维、三维地震资料和钻井资料,结合台缘结构和礁体结构特征,将台缘生物礁发育模式划分为新控陡坡型和台缘缓坡型两类,并进一步识别出加积、进积和退积三种礁体内部沉积结构。此外,从地质背景和环境背景两方面开展生物礁成因背景分析。研究认为:构造古地貌和构造沉降速率是新控陡坡型台缘生物礁生长的主控因素,前者控制了生物礁时空展布特征,后者决定了礁体内部沉积结构特征;海平面升降变化和洋流季风是台缘缓坡型生物礁生长的主控因素,前者对生物礁时空迁移特征和礁体垂向叠置样式皆有重要影响,后者对礁体生长规模、外部轮廓及礁滩体沉积相空间分布具有重要控制作用。

关键词: 南海西部深水区, 台缘生物礁, 新控陡坡型, 台缘缓坡型, 发育模式, 成因背景

Abstract: Cenozoic reef-banks reservoirs in western deep-water area of the South China Sea are one of the most profitable targets. In this work, developmental pattern and genetic background of carbonate platform margin reef complexes are analyzed based on the latest 2D and 3D seismic data. It is found that there are two kinds of developmental pattern of reef complexes in the area: fault-controlling steep slope and carbonate platform ramp with three kinds of interior depositional structures: aggradational, progradational, and retrogradational structures. Geology and environment background play an important role in the growth characteristic and distribution of reef complexes. Palaeogeomorphology and tectonic subsidence rate are the main controlling factors in the development of fault-control steep slope reef complexes. The spatial distribution of marginal reef is influenced by the former factor while the interior sedimentary structure is controlled by the latter one. Sea level changes and monsoon-ocean currents are the crucial factors in the development of carbonate platform ramp. The sea level changes play a vital role in reef complex migration and vertical stacking pattern. Monsoon and ocean currents influence not only the scale of reef development and its external morphology, but also control the distribution of sedimentary facies.

Key words: deep-water area in Western South China Sea carbonate platform margin reef fault-controlling steep slope carbonate platform ramp developmental pattern genetic background

收稿日期: 2014-10-15

基金资助:

本项研究受国家自然科学基金项目(41202086,41102068)资助。

通讯作者: 王超,重庆市涪陵区焦石镇中石化重庆涪陵页岩气勘探开发有限公司,408014. Email:wangchao0502@163.com E-mail: wangchao0502@163.com

作者简介: 王超 博士,1987年生;2015年毕业于中国地质大学(武汉)矿产普查与勘探专业,获博士学位;长期从事层序地层学、地震沉积学及储层地球物理精细刻画等方面的研究工作。目前在中石化江汉油田从事与页岩气勘探开发相关的科学研究工作。

引用本文:

王超, 陆永潮, 杜学斌, 陈平, 陈雷, 焦祥燕. 南海西部深水区台缘生物礁发育模式与成因背景[J]. 石油地球物理勘探, 2015, 50(6): 1179-1189. Wang Chao, Lu Yongchao, Du Xuebin, Chen Ping, Chen Lei, Jiao Xiangyan. Developmental pattern and genetic background of carbonate platform margin reef complexes in deep-water area in Western South China Sea. OGP, 2015, 50(6): 1179-1189.

链接本文:

<http://www.ogp-cn.com.cn/CN/10.13810/j.cnki.issn.1000-7210.2015.06.020> 或 <http://www.ogp-cn.com.cn/CN/Y2015/V50/I6/1179>

服务

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ E-mail Alert
- ▶ RSS

作者相关文章

版权所有 © 2008 《石油地球物理勘探》编辑部

本系统由北京玛格泰克科技发展有限公司设计开发 技术支持: support@magtech.com.cn

51La

京ICP备13042042号