

118年11月23日 星期五 首页 | 期刊介绍 | 期刊影响 | 编 委 会 | 投稿须知 | 期刊订阅 | 联系我们 | 内网地址 | English

石油学报 » 2015, Vol. 36 » Issue (8): 966-975 DOI: 10.7623/syxb201508007

地质勘探

最新目录 | 下期目录 | 过刊浏览 | 高级检索

&lt;&lt; 前一篇 | 后一篇 &gt;&gt;

## 塔里木盆地东河1油藏滨岸砂岩隔夹层识别及空间展布

王梓媛<sup>1</sup>, 潘懋<sup>1</sup>, 师永民<sup>1</sup>, 董越<sup>2</sup>1. 北京大学地球与空间科学学院 北京大学石油天然气研究中心 北京 100871;  
2. 中国石油大学地球科学学院 北京 102249**Interlayer identification and spatial distribution in onshore sandstone, Donghe 1 reservoir, Tarim Basin****Wang Ziyuan<sup>1</sup>, Pan Mao<sup>1</sup>, Shi Yongmin<sup>1</sup>, Dong Yue<sup>2</sup>**1. School of Earth and Space Science, Peking University; Institute of Oil & Gas, Peking University, Beijing 100871, China;  
2. Institute of Earth Science, China University of Petroleum, Beijing 102249, China[摘要](#)[图/表](#)[参考文献\(0\)](#)[相关文章 \(15\)](#)**全文:** [PDF](#) (3515 KB) [HTML](#) (1 KB)**输出:** [BibTeX](#) | [EndNote](#) (RIS)**摘要**

塔里木盆地东河1油藏石炭系CIII油组为滨岸厚层块状非均质胶结砂体,普通测井技术和编制测井曲线关系图件的研究方法无法识别该地区的隐蔽隔夹层。针对重点研究段CIII1油组,在对测井曲线归一化的基础上开展无量纲标准化处理,识别并评价了隔夹层的发育程度。利用多条测井曲线交叉进行单井隔夹层的识别,识别符合率达80%以上;进而在此基础上通过井间插值恢复隔夹层展布形态,对隔夹层平面和纵向上的展布规律进行了研究,研究结果表明:纵向上,CIII1-1油组、CIII1-2油组隔夹层相对不发育,CIII1-3油组隔夹层较为发育;平面上,隔夹层主要位于背斜构造翼部,中部相对不发育。该研究成果可以为东河1油藏顶部重力驱开发提供一定理论支持。

**关键词 :** [塔里木盆地](#), [东河1油藏](#), [隔夹层](#), [测井识别](#), [展布规律](#)**Abstract :**

The Carboniferous CIII oil formation of Donghe 1 reservoir, Tarim Basin consists of onshore thick-massive heterogeneous cemented sand bodies, of which the concealed interlayer is unable to be identified using normal logging technology and logging curve relation map. Aiming at the target horizon CIII1 oil formation, non-dimensional standardization was carried out on a basis of logging curve normalization, so as to identify and evaluate the development degree of interlayer. Single-well interlayer was identified by intersection of multiple logging curves, and the identification coincidence rate was over 80%. On this basis, the distribution morphology of interlayer was recovered by cross-well interpolation to study the planar and longitudinal distribution laws of interlayer. Research results indicated that in the vertical direction, CIII 1-1 and CIII 1-2 oil formations were less developed in the interlayer, where CIII 1-3 oil reservoir was relatively developed; on the horizontal level, the interlayer was mainly located in anticinal wings, while less developed in the middle of anticline structure. These results can provide a certain theoretical support for gravity flooding development at the top of Donghe 1 reservoir.

**Key words :** [Tarim Basin](#) [Donghe 1 reservoir](#) [interlayer](#) [logging identification](#) [distribution laws](#)**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**

- [王梓媛](#)
- [潘懋](#)
- [师永民](#)
- [董越](#)

**中图分类号:** TE34**基金资助:**

国家重点基础研究发展计划(973)项目(2009CB219302)资助。

**作者简介:** 王梓媛,女,1990年7月生,2013年获中国石油大学(北京)地质工程专业学士学位,现为北京大学石油地质学专业博士研究生,主要从事开发地质学、碳酸盐岩沉积-成岩作用研究。Email:dichuang09@sina.com**引用本文:**

王梓媛, 潘懋, 师永民, 董越. 塔里木盆地东河1油藏滨岸砂岩隔夹层识别及空间展布[J]. 石油学报, 2015, 36(8): 966-975.

Wang Ziyuan, Pan Mao, Shi Yongmin, Dong Yue. Interlayer identification and spatial distribution in onshore sandstone, Donghe 1 reservoir, Tarim Basin[J]. Acta Petrolei Sinica, 2015, 36(8): 966-975.

**链接本文:**<http://www.syxb-cps.com.cn/CN/10.7623/syxb201508007> 或 <http://www.syxb-cps.com.cn/CN/Y2015/V36/I8/966>

2018/11/23

塔里木盆地东河1油藏滨岸砂岩隔夹层识别及空间展布

京ICP备13000890号-1