

石油地球物理勘探 » 2014, Vol. 49 » Issue (2) :337 DOI:

综合研究

最新目录 | 下期目录 | 过刊浏览 | 高级检索

<< Previous Articles | Next Articles >>

川东北元坝地区飞仙关组二段鲕滩储层预测

缪志伟¹, 别静², 季春辉¹

1. 中国石化勘探南方分公司研究院, 四川成都 610041;
2. 中国石油东方地球物理公司油藏地球物理研究中心, 河北涿州 072750

Reservoir prediction on the section of Feixianguan Formation in Yuanba Area, Northeast Sichuan

Miao Zhiwei¹, Bie Jing², Ji Chunhui¹

1. Research Institute, Southern Branch Co., SINO-PEC, Chengdu, Sichuan 610041, China;
2. Research Center of Reservoir Geophysics, BGP Inc., CNPC, Zhuozhou, Hebei 072751, China

摘要

参考文献

相关文章

Download: [PDF \(12657KB\)](#) [HTML 1KB](#) Export: [BibTeX](#) or [EndNote \(RIS\)](#) [Supporting Info](#)

摘要 川东北元坝地区飞仙关组二段具有广阔的勘探潜力。本文在分析元坝地区飞仙关组二段鲕滩储集层地质特征的基础上, 利用三维地震资料, 进行储集层精细标定、储集层地质建模与正演, 确定储集层的地震响应特征; 采用古地貌分析、地震相划分及地震属性分析等手段, 确定储集层发育的有利相带和储层宏观展布, 并以此为基础, 应用稀疏脉冲约束波阻抗反演对储集层孔隙度及有效厚度进行精细预测, 建立了一套鲕滩储集层的预测方法, 预测了元坝地区飞仙关组二段鲕滩储集层的分布, 通过与已完钻井储层厚度及孔隙度的对比, 证实了预测结果的正确性。

关键词: 飞仙关组二段 鲕滩储集层 地震相 约束反演 储层预测

Abstract: The second section of Feixianguan Formation of Yuanba area in the northeast Sichuan Basin has great potential of the petroleum exploration. Based on the geologic features of oolitic-beach reservoir, accurate reservoir calibration and geological reservoir modeling, we utilize 3D seismic data to determine reservoir seismic response features. In order to predict favorable facies belts of reservoir growth and the macroscopic distribution of reservoir, we adopt paleogeomorphology analysis, seismic facies analysis and multi-attributes analysis. On this basis, we realize impedance inversion to accurately predict effective thickness of oolitic reservoirs and their porosity. So a prediction method for oolitic-beach reservoir is established and the distribution of oolitic-beach reservoir on the second section of Feixianguan Formation is predicted. Meanwhile, reservoir thickness and porosity from the finished wells confirm the accuracy of our predictions.

Keywords: the second section of Feixianguan Formation oolitic-beach reservoir seismic facies constrained inversion reservoir prediction

Received 2012-10-18;

Fund:

本项研究受国家油气重大专项课题(2011ZX05005-003)资助。

Corresponding Authors: 缪志伟, mzw495342920@163.com Email: mzw495342920@163.com

About author: 缪志伟 助理工程师, 1987年生; 2009年本科毕业于长江大学地球物理学院勘查技术与工程专业, 获学士学位, 2011年提前一年修完硕士研究生课程, 毕业于中国地质大学(武汉)资源学院能源地质工程专业, 获得硕士学位; 现在中国石化勘探南方分公司从事构造解释及储层预测等工作。

引用本文:

缪志伟, 别静, 季春辉. 川东北元坝地区飞仙关组二段鲕滩储层预测[J] 石油地球物理勘探, 2014, V49(2): 337

Miao Zhiwei, Bie Jing, Ji Chunhui. Reservoir prediction on the section of Feixianguan Formation in Yuanba Area, Northeast Sichuan[J] OGP, 2014, V49(2): 337

Service

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

作者相关文章