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GeoEast解释系统在松辽盆地王府断陷火山岩储层预测中的应用

胡佳, 黄棱, 王丽丽, 王莉

中国石油吉林油田分公司地球物理勘探研究院, 吉林松原 138000

Volcanic-faulted reservoir prediction in Wangfu Depression, Songliao Basin with GeoEast

Hu Jia, Huang Ling, Wang Lili, Wang Li

Geophysical Exploration Research Institute, Jilin Oilfield Company, PetroChina, Songyuan, Jinlin 138000, China

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摘要 火山岩作为一种特殊岩性储集层,其岩相变化复杂,岩体空间叠置,地震识别预测难度较大。以松辽盆地南部王府断陷火山岩组地层为例,本文在建立火山岩相地震响应识别模式的前提下,按照“围口打沿”的思路,开展有利近火山口亚相的地震预测与识别,通过应用GeoEast解释系统中构造导向滤波、多窗口倾角扫描、拟声波重构等技术,同时辅助应用Jason软件中的体控相控特征参数反演技术,较好地解决了火山口精细刻画、火山通道识别及火山岩有利储层预测等问题,为该区火山岩有利储层预测提供了可借鉴方法。

关键词: 储层预测 火山岩储层 多窗口倾角扫描 喷发机制 岩相

Abstract: Volcanic reservoirs are very hard to be identified on seismic data due to their complicated rock facies and different compositions. Based on seismic response identification from volcanic facies, we present in this paper volcanic crater identification in Huoshiling formation, Wangfu Depression, Songliao Basin by seismic approaches. Using approaches such as structure-oriented filter, multi-window dip scanning, and pseudo acoustic curve reconstruction provided by GeoEast and other tools, we predict successfully volcanic reservoirs and conduits, and sculpt craters. Applications show that this approach offers a good solution to volcanic reservoir prediction in this area.

Keywords: reservoir prediction volcanic reservoir multi-window dip scanning eruption mechanism facies

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About author: 胡佳 工程师, 1983年生; 2005年本科毕业于长江大学勘查技术与工程专业, 2011年获吉林大学地质工程专业硕士学位; 一直从事地震资料解释工作, 现在中国石油吉林油田分公司地球物理勘探研究院从事深层火山岩气藏地震勘探研究工作。

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