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处理技术

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GeoEast井控地震资料处理效果分析

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Well-control seismic data processing in ZG area with GeoEast

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摘要

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摘要 为落实塔里木盆地ZG地区的储层发育特征和油气分布规律, 实施高效开发, 急需改进地震处理方法, 提高该区地震资料品质。本文结合GeoEast软件特点, 在ZG地区应用VSP井控地震资料处理技术, 包括井控真振幅恢复、井控反褶积、井控反Q滤波等。井控处理的成果表明: 目的层奥陶系鹰山组顶面反射连续性有较大提高, 保幅性好, 分辨率高。

关键词: 真振幅恢复 井控反褶积 井控反Q滤波

Abstract: The Ordovician Yingshan Formation in ZG area, Tarim Basin is an important exploration target. But in this area seismic data quality is rather poor with low signal to noise ratio, high frequency absorption, and narrow bandwidth. For reservoir development, we need to improve seismic data quality of this area. To do this, we perform some well-control seismic data processing approaches in the area, such as well-control true amplitude recovery, well-control deconvolution and well-control inverse Q filtering. After the processing, amplitude is well preserved, seismic events are much more continuous, and data resolution is greatly improved. The top of Yingshan Formation is clearly described.

Keywords: true amplitude recovery well-control deconvolution well-control inverse Q filtering

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