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应用GeoEast系统进行二维弯曲宽线地震资料处理

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Crooked wide line seismic data processing with GeoEast

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摘要

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摘要 渭河盆地M工区采用二维弯曲宽线采集地震数据, 工区静校正问题严重, 干扰波类型多, 信噪比较低, 构造复杂, 断层发育, 给资料的偏移成像带来较大困难。本次处理应用GeoEast系统弯曲宽线观测系统定义、多种静校正联合应用、叠前保幅去噪、弯线叠前时间偏移等多项技术, 成像效果和信噪比得到改善, 与以往剖面相比, 新处理剖面品质有明显提高。

关键词: 弯曲宽线 信噪比 弯线 叠前时间偏移

Abstract: A crooked wide line seismic acquisition was carried out in the working area M, Weihe Basin. Due to complex surface and near surface, a great number of serious problems are faced for data processing such static corrections, many kinds of interference, and low S/N ratio. On the other hand, complex structure and developed faults make data imaging more difficult. We reprocess the data using a set of approaches provided by GeoEast such as crooked wide line geometry definition, multi static corrections, prestack amplitude-preservation denoising, and crooked line prestack time migration. Compared with the previous processing, the imaging quality and the S/N ratio are significantly improved.

Keywords: crooked wide line S/N ratio prestack time migration

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