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Deep CDP seismic studies in the Volga-Ural petroleum province

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Abstract

Deep CDP seismic studies were initiated in the Volga-Ural petroleum province in 1993 on two lines crossing the Romashkino giant field. The deep seismic studies aimed to identify differences between the structure of the Earth's crust in the largest oil field of the Volga-Ural province and that outside of it. The data acquired in 1994-95 unequivocally indicated that these differences did exist. The existing concepts of the major role played by the Earth's deep crust in the distribution of hydrocarbon deposits could be further developed and implemented through a geotraverse survey across the Volga - Ural petroliferous province. The detection of relationships between the petroleum potential of sedimentary cover and the structure of the crust and mantle is of fundamental significance (deep origin of hydrocarbons). Specific features revealed in this region can be implemented for oil prospecting in the Volga-Ural and other regions, as well as for the assessment of oil prospects in poorly studied regions.
