

# RESERVOIR AND HYDROCARBON CHARACTERISTICS OF IGNEOUS ROCK OF KONGDIAN FORMATION IN ZAOYUAN OIL FIELD, EAST CHINA

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## ABSTRACT

Based on the interpretation of seismic sections, core analyses, drilling, logging, and oil-testing data of igneous rock, we determined the distribution and hydrocarbon characteristics of the first member of the Kongdian Formation in Zaoyuan Oil Field. Petrography and geophysics, revealed the spatial distribution, and reservoir characteristics of the oil-and-gas bearing igneous rocks. The two kinds of igneous rocks in this area, volcanic and hypabyssal intrusive, are distributed on the downthrown side of the Kongxi fault and its uplifted wall, respectively. There are two kinds of oil and gas pools. The first is oil and gas associated with volcanic rock in which the reservoir space is mainly composed of pore and fracture space. The second type of oil and gas occurrence is in hypabyssal intrusive rock in which fractures created the main reservoir space.