

Correlation and Study of the Genetic Type and Source of Natural Gas of Fault-Depression Volcanic Formation of Xujiaweizi of Daqing

Dong Sun

Exploration and Development Research Institute, petroChina, Daqing, China.

The natural gas of volcanic formation of Xujiaweizi mainly stores in Yingcheng Group I and Yingcheng Group III of Cretaceous age in fault-depression structure. Divided by Uplift Shengping, Yingcheng Group III developed to the north while Yingcheng Group I to the south. The total thickness of the volcanic formation of the two intervals is between 50 to 1500 meters, averaging 600 meters. Natural gas reserve of Xujiaweizi mainly comes from the volcanic formation of Yingcheng Group, accounting for 79.5%. This article studies characteristics, genetic types, and source and distribution of hydrocarbon gas and carbon dioxide gas of natural gas from volcanic formation by analyzing data from more than 70 exploration wells in Xujiaweizi of Daqing.