

Fractures Types of Volcanic Reservoir and its significance to reservoir in the Dixi Area of the Kelameili Gas Field, Junggar Basin, Northwestern China

Liu Xiaohong¹, Feng Mingyou¹, Xi Aihua¹, and Liu Chang¹

¹College of Geoscience and Technology, Southwest Petroleum University, Chengdu, China (liuxiaohong_swpu@163.com)

Abstract

Volcanic rock reservoirs have been reported in many locations around the world. The lithologies range from basalt to andesite or rhyolite formed in various geological ages. As a relatively new area in oil and gas exploration, volcanic reservoirs are attracting the attention and interest of scholars in the oil industry. In particular, the discovery of volcanic hydrocarbon reservoirs in China presents a huge opportunity for the development of igneous rock hydrocarbon reservoirs. Recent years have seen a breakthrough in Carboniferous volcanic rocks exploration in the Junggar Basin: the Kelameili Gas Field was discovered, offering good prospects for exploration in the Kelameili area and even the whole of northern Xinjiang province.