Analyzing Tensleep Natural Fracture Properties using X-Ray CT Scanner

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Abstract

This paper presents a step by step to characterize fracture properties of Tensleep formation cores using X-ray CT Scanner. Two cores from the RMOTC 48X28 well at Teapot Dome field were used as an example. The fracture aperture, fracture aperture distribution and mineralization condition of both cores are analyzed and compared. The CT scanner provides CT images, which show the difference between material densities. These images are not the actual physical property of fracture. The technique to convert the CT images into aperture size is presented.

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