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Multidisciplinary and Integrated Approach to Better Assess Open Fracture Systems and Their Impact on Hydraulic Fracturing

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Abstract

During the drilling a horizontal well, only a few data types are recorded. Among these are the gamma ray, the rate of penetration and sometime the gas chromatography. Whereas, for the latter, the breakdown and number of compounds varies with the tool and the service company used, some simple ratios have proved very useful at identifying open fractures in some particular case scenarios.

The main interest of gas chromatography in the search for structural features, compartmentalization or open fracture zones is its dense sampling rate of one sample per meter (sometimes even one every 50 cm).