

Log Resistivity Measuring Devices Compared to S-waves from a Vertical-Force Source VSV / VSH Ratio in Identification of Fracture Sweet Spots in Densely Fractured Reservoirs

John M. Robinson and Bob Van Nieuwenhuise

¹RARE Technology Geophysical Research and Development, 9333 Memorial Dr., Ste. 201, Houston Texas 77024

²Paradigm, Houston, Texas

ABSTRACT

Induction and short normal log concepts will be compared to SV and SH particle motion vector concepts from a vertical-force source to propose the SV wavefield-velocity / SH wavefield-velocity (VSV / VSH) ratio attribute in identification of fracture sweet spots in densely fractured reservoirs such as in the Marcellus Formation, Pennsylvania, USA.