

Vsp Lookahead (Ahead Of The Bit Information): Considerations And Accuracy Analysis

P. Ranjan¹, M. Khaitan¹, and S. Chandrasekhar²

¹Schlumberger, India

²ONGC, India

ABSTRACT

Vertical Seismic Profiling (VSP) Lookahead has emerged as a vital technology in well planning and minimizing drilling risks. There are numerous published papers highlighting the impact of VSP Lookahead results on well planning and drilling risk mitigation. There are however, limitations with this technology. VSP Lookahead results too have uncertainties involved with it and such results should be used with caution before taking critical drilling and well planning decisions. This paper discusses limitations of VSP Lookahead methodology. VSP Lookahead were performed for ONGC in various fields with varying geological settings. VSP Lookahead results were analyzed and accuracy of the results have been discussed. Major factors effecting VSP Lookahead results as well have been discussed.