



[12] Patent

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[54] IMPROVEMENTS TO SEISMIC PROCESSING METHODS

[57] Abstract: A method of processing seismic traces corresponding to two modes of propagation in the subsoil, the method being characterized by the following steps: determining at least one pair of correlated events from the seismic traces corresponding to the two modes respectively; determining the ratio of the differences between the vertical travel times T_s and T_p in the S domain and in the P domain, corresponding to said correlated pairs of events; and determining the values of T_s and T_p over the time interval defined by the two pairs of correlated events so that throughout said time interval, the ratio r_i = T_s/T_p is equal to the ratio V_p/V_s of the speeds in the P domain and in the S domain, and so that the mean value of said ratio \bar{r} over said time interval corresponds to the ratio of the differences between the vertical travel times corresponding to the pairs of correlated events.

No. of claims: 9

No. of figures: 2

