

ABSTRACT

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Studies : Geophysics

Title : Seismic interpretation Recording Single Channel In Identifying occurrences Granite rocks Waterway South Singkep Lingga regency of Province Riau Islands

High resolution of marine seismic reflection seismic were used to detect the layers of seafloor sediment and to interpret seismic data geologically. The objectives of this study were to identify occurrences of granite rock in the waters of South Singkep. Acquisition data was held located between $104^{\circ} 15' 00'' - 104^{\circ} 31' 32''$ E and $0^{\circ} 30' 00'' - 0^{\circ} 46' 23''$ S. Several methods used to process the data were Band Pass Filter, Automatic Gain Control (AGC), and predictive deconvolution. Identification of the presence of granite rocks on seismic cross sections of each track is shown in the form of hills after valleys and granite rock is most likely present in A runs, which is a rock that has a granitic nature, and that penetrates to the water column or so-called intrusive rocks.

Keywords : Seismic reflection, Granite rock, Band Pass Filter, Automatic Gain Control (AGC), predictive deconvolution, Intrusive rock.