

Tonasa Formation in “Belladina” Field located in South Makassar Basin.

Dominant lithology in this formation is limestone that prospect as reservoir rock. The objective of this research to know the characterization and reservoir prospect zone from acoustic impedance value and total porosity value from multiattribute neural network analysis in Tonasa Formation.

Multiattribute analysis is a method for distribute physical properties of rock from target logs to seismic volume with attribute of data seismic and result of inversion. Target using in this research is total porosity.

Distribution of acoustic impedance value about 17158-28445 ((ft/s)*(g/cc)) and distribution of total porosity about 10-26 %. Characterization of prospect zone overflow acoustic impedance value about 17158 -234722 ((ft/s)*(g/cc)) and total porosity value about 19 - 25 %.

Keywords : Tonasa Formation, Modelbased Inversion, Multiattribute Neural Network Analysis, Carbonate Reservoir.