

## **ABSTRACT**

### **ACOUSTIC IMPEDANCE ANALYSIS AND POROSITY SPREAD, TALANGAKAR FORMATION, IN “BETA” FIELD SOUTH SUMATERA BASIN**

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The author has conducted research in the field "Beta" Talangakar Formation, South Sumatra Basin. This study was conducted to determine the value of AI in the reservoir zones based on the results of the inversion, as well as knowing the distribution of reservoir based Slicing acoustic impedance and porosity slicing

This research are combine between 3D poststak data, well data (well V\_1, Well V\_2), and checkshoot. From inversion process, we create a model of acoustic impedance, by control of well. The study also conducted on the acoustic impedance slicing and slicing porosity

The result of this research, show the value of acoustic impedance at resevoar zone “Beta field” between 7899-9100 (m/s)\*(gr/cc), clasify as sand, and low impedance. The porosity is about 16.4%-20%. On the Map acoustic impedance incision and porosity show the variation of the value of AI and porosity, on porosity and AI slicing show that there are several zones of porosity and AI have prices that are correlated and the corresponding altitude zone time structure map include 10 zones, 6 , and 9 on the cross-AI.

Key word : Inversion, Acoustic Impedance, Acoustic and Porosity Slice