

**INTERPRETATION OF SUBSURFACE STRUCTURE BASED OF 2D
SEISMIC DATA FOR CALCULATION *GROSS ROCK VOLUME OF*
RESERVOIR ON THE YTS FIELD**

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ABSTRACT

Interpretation contour shape of the structure on YTS field where is located in southern sumatera, which is one field in Part of Southern Sumatera Basin, using seismic reflection methode. In this study, using a 2-D seismic hardcopy, well data, one data checkshot and three marker horizon that are a marker of Palembang Formation, Telisa Formation and Baturaja Formation. Where in Interpreting of depth structure map, determined that the Baturaja Formation being targeted as a potential zone of carbonate reservoirs has found a single large anticline and one small anticline. From the calculation of *Gross Rock Volume* of two anticline in Baturaja Formation, the first anticlin volume amount of 1.339.121,813 cubic meters or 1339,1 cubic kilometers, while on the second volume amount of 11.881,38 cubic meters or 11,8 cubic kilometers. The both of anticlines could be a potential hydrocarbon reservoir field.

Keyword : interpretation, seismic reflection, gross rock volume.