

# Analisis persebaran reservoir dengan seismic colored inversion pada lingkungan pengendapan fluvial West Natuna Basin = reservoir distribution analysis with seismic colored inversion in fluvial deposition environment West Natuna Basin

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## Abstrak

West Natuna Barat merupakan cekungan yang memiliki lingkungan fluvial dengan reservoir berupa bed-sand berselingan dengan shale dan shaly-sand. Metode inversi dilakukan dengan Seismic Colored Inversion yang akan memberikan hasil yang kuat untuk melihat fitur geologi berupa kanal pasir menerus yang memiliki nilai Impedansi Akustik rendah pada zona-zona yang menarik. Pengirisan dilakukan pada horizon A1, saluran pasir dengan nilai AI berkisar antara 12.000 hingga 15.500 ((ft/s)\*(g/cc)) tersebar di tengah zona penelitian ke arah timur. , alur pasir dengan AI berkisar antara 16.000 sampai 17.800 ((ft/s)\*(g/cc)) tersebar di daerah tengah zona penelitian sekitar U1 sampai U3, juga terlihat di timur laut zona penelitian. Pada hasil slicing horizon C1, ditemukan saluran pasir dengan nilai AI berkisar antara 18.000 sampai dengan 19.000 ((ft/s)\*(g/cc)) di daerah tengah zona penelitian dekat sumur U1 sampai U3.

.....The West Natuna Basin is a basin that has a fluvial environment with a reservoir in the form of bed-sand alternating with shale and shaly-sand. The inversion method is carried out with Seismic Colored Inversion which will give strong results to see geological features in the form of continuous sand canals that have low Acoustic Impedance values in interesting zones. The slicing was carried out on the A1 horizon, a sand channel with AI values ranging from 12,000 to 15,500 ((ft/s)\*(g/cc)) spread in the center of the study zone to the east. , sand grooves with AI ranging from 16,000 to 17,800 ((ft) /s)\*(g/cc)) is spread in the central area of the study zone around U1 to U3, also seen in the northeast of the study zone. In the results of the slicing horizon C1, sand channels were found with AI values ranging from 18,000 to 19,000 ((ft /s)\*(g/cc)) in the center of the study zone near wells U1 to U3.