

## SARI

Lapangan ‘X’ terletak pada Cekungan Barito. Penelitian ini meliputi studi mengenai identifikasi fasies, lingkungan pengendapan, dan persebaran reservoir batupasir ‘MR’ pada Formasi Tanjung. Penelitian ini menggunakan 50 data log sumur, 38,5 meter batuan inti, dan data seismik 3D. Analisis yang dilakukan berupa analisis lingkungan pengendapan, stratigrafi sekuen, analisis struktur seismik, dan pembuatan peta isopach fasies (*gross thickness*). Hasil deskripsi litologi dari batuan inti menghasilkan 5 litofasies (G1, S1, S2, S3, dan F1) yang kemudian diasosiasikan ke dalam 4 asosiasi fasies pengendapan: *braid bar*, *channel fill*, *crevasse splay*, dan *floodplain*. Lingkungan pengendapan yang berkembang adalah sungai teranyam dan sungai berkelok. Analisis sekuen stratigrafi memberikan informasi bahwa pada interval penelitian dimulai dengan LST, TST, dan HST. Dari hasil analisis tersebut, ditentukan bahwa : Fasies *Braid Bar* tersebar di bagian tengah, fasies *Channel Fill* tersebar di bagian utara, sedangkan fasies *crevasse splay* tersebar bagian selatan. Dari hasil analisis seismik dihasilkan interpretasi struktur geologi berupa *assymetric anticline*. Arah sedimentasi menunjukkan trend dari arah Barat Laut – tenggara dan provenance berasal dari *Schwaner Mountains*.

**Kata Kunci:** Reservoir Formasi Tanjung, Fasies, Lingkungan Pengendapan, Sekuen Stratigrafi, Penyebaran Reservoir

## **ABSTRACT**

*'X' field is located in Barito Basin. This research comprise the study of facies identification, depositional environment, and distribution of reservoir 'MR' in Tanjung Formation. This study used 50 well logs, 38,5 meters of core, and 3D seismic data. The analysis consist of depositional environment determination, electrofacies analysis, sequence stratigraphy determination, structural seismic analysis, and making of isopach facies map (gross thickness). The results of litological description delivers 5 litofacies that associated into 4 depositional facies such as : braid bar, channel fill, crevasse splay, and floodplain. Depositional environment that developed in this area is braided river and meandering river. Sequence stratigraphic analysis shows that the interval of the study is started by deposition of LST, TST, and HST. From this analysis, it is determined that : Braid Bar facies distributed in the centre area of the field, Channel Fill facies distributed in the north area of the field, and Crevasse Splay distributed in south area of the field. From the seismic structural analysis results interpretation of geological structure consist of assymetric anticline. Direction of sedimentation shows trend Northwest – Southeast and provenance come from Schwaner Mountains.*

**Keyword:** *Tanjung Formation's Reservoir, Facies, Depositional Environment, Sequence Stratigraphy, Reservoir Distribution*