

Lower Miocene Carbonate Play in the Pyay Sub-basin, Onshore Myanmar: Reservoir Characterization for Prospectivity De-risking

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ABSTRACT

The Lower Miocene carbonate play in Pyay Sub-Basin of the Central Myanmar Basin remains one of the less explored stratigraphic plays in onshore exploration history of Myanmar. Htantabin Oil Field (1979 -1987) is the first and only proven oil and gas field exclusively produced from a few limestone members (out of 20 limestone members) of the Lower Miocene Pyawbwe Formation. The characterization of the limestone members are still less understood in view of limited well penetration and poor data quality of the existing 2D seismic lines and well logs. Current understanding on the play type has suggested an overall high risk due to limited lateral extent of the carbonate reservoirs and their heterogeneous facies distribution. The findings of this study and integration with the newly acquired 3D seismic data provide crucial information on effectiveness of the Lower Miocene Pyawbwe Limestone play in the SW of Pyay Sub-Basin, and help to minimize the risks for future exploration potential in this region.