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POSTER PRESENTATION

New Data Brings New and Deeper Play Insight for North Madura, Indonesia

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1. INTRODUCTION

North Madura has never lacked drillable prospects; however, results have had variable success. Understanding where the main kitchen is located and the potential migration paths have been the main challenge, largely due to vintage seismic with limited offset, depth and old conventional recording techniques, which has made it difficult to map and to differentiate one kitchen from another.

2. REVEALING NEW DEEPER PLAYS

New recording and imaging techniques have been introduced to Indonesia for the first time ever, bringing the potential to record deep, low frequency data. Specifically, for this North Madura case study, intra-carbonate reflectors have brought improved porosity estimations for the Kujung (Mid Miocene) level, where there are still a number of untested leads. More importantly however is the detailed imaging under the carbonates and opening up of the deeper Ngimbang play as well as the potential basement play. The potential in the Ngimbang has been proven by the recent Sidayu well and this new play is prevalent across the area, as evidenced in the deep recorded GeoStreamer data and presented in this poster. The kitchen area and migration paths into the potential shallower reservoirs are better understood and the plays in the self-sourcing Ngimbang are revealed for the first time.

The North Madura Platform and its associated grabens is an area previously thought to be understood, however this poster will show that new technologies both in acquisition and imaging can provide new insights to mature areas and open new plays and near field exploration.