
New Exploratory Discovery of Giant Fields in the Upper Jurassic Kimmeridgian of the Southwest Marine Region, Mexico

Francisco García-Treviño

Pemex PEP

ABSTRACT

The shallow marine Gulf of Mexico wells at Xux and Tsimin represent giant field discoveries. Located northwest of Cd. del Carmen Campeche in water depths between 15 and 30 m, the two wells tested lagoonal facies oolitic banks with excellent results, producing gas and condensate in Kimmeridgian rocks. In both cases hydrocarbon reserves exceeded 500 MMboe, allowing them to be classified as giant fields. Proximity to facilities and water depth further increased its economic attractiveness. Enough information exists to predict that these two new exploratory discoveries are not isolated, and there are several nearby structures where conditions are expected similar to those found by Xux and Tsimin, as is the case Kinbe-1 well that is located north and upthrown in the same structural alignment. There are exploratory locations as Kaa-1 located east of Xux, which will start drilling in 2011, and Tsimin-101 located north of the Tsimin Field will be drilled in the short term. Exploratory opportunities identified which appeared to extend to land, as is the case of Chumak, will be completed with the acquisition of new seismic data in the Xux Field. We are currently drilling the appraisal well Xux-1DL, with which we expect to confirm the areal extent of JSK reservoir north of the structure, reclassifying and incorporating new hydrocarbon reserves.