

## Geologic-Geophysics Interpretation of the Lamprea Area

---

*Eduardo Macías Zamora, Manuel Zambrano Álvarez, and **Dionisio Rodríguez Figueroa**. PEMEX Exploración y Producción, Tampico, Mexico*

---

After 2 years of interpreting 4000 square kilometers with 3D seismic and drilling 2 exploration wells in the frontier area of Lamprea project, located in national waters of the Gulf of México offshore the state of Tamaulipas, the first results are obtained with the discovery of dry gas in the well Nú 1 at 608 meters deep. The sedimentary model is unconsolidated costal sand bar composed of lithic sandstone with porosity around 30-38 %.

The discovery of this new gas province confirms the petroleum system, increases the certainty in interpreting the amplitude anomalies and allows us to calibrate the seismic signal for characterizing a great amount of stratigraphic and structural traps located between 500 y 1500 meters deep.

Furthermore, a little sand lens with gas show and fractured shales with light oil show, were found at the deep part of the great-thickness Tertiary column of the Middle and Lower (?) Miocene, and refers to the neritic and batial environment.

This data confirms that towards the northern part of the Tertiary basin of the Gulf Continental Platform, there is a good potential for increasing the PEMEX Exploration and Production's oil-gas reserves.

---