

**AAPG Annual Convention
Salt Lake City, Utah
May 11-14, 2003**

Mariano Carrera¹, John Chambers², Vishram Rambaran¹ (1) Venture Production (Trinidad) Limited, South Oropuche, Trinidad and Tobago (2) Venture Production (Trinidad) Limited, Turkey

Use of Borehole Imaging (FMI™) Data to Define Prospectivity Near the Los Bajos Fault, Southwest Trinidad

Borehole imaging (FMI^{IM} data) has proven to be an important tool in the understanding and development of reservoirs with in the Point Ligoure Block located offshore SW Trinidad. Hydrocarbon accumulations in this area straddle the major strike slip Los Bajos Fault Zone which trends EW across the island.

Most of the drilling in the area occurred pre-1978 with data being limited to GR-Res and the occasional dipmeter logs of poor quality. Seismic data comprised of merged seismic of three vintages – quality over the productive areas was poor. Modern FMI^{IM} data reveals significant areas with dips in excess of 70 degrees. This explains why previous dipmeter processing technology had trouble imaging the bed dip and also why seismic quality was poor and geological correlations problematic.

It has been found the previously interpreted reservoirs have true stratigraphic thickness considerably less than predicted but has opened up new areas for appraisal within the area. This information can now be used for optimizing production and designing completions. Better understanding the characteristics of deposition has also helped production profiles.

This paper will demonstrate how the use imaging logs have helped in defining hydrocarbon pay and understanding the structure of a particularly complex but supercharged hydrocarbon system.