

# PROJECT MANAGEMENT

## Project Management

*International*

### New CBM Facility - Bathymetric and Sub-bottom Survey - San Pedro

Client: Coastal Petroleum  
Location: Dominican Republic  
Period: June to August 2008

#### San Pedro New CBM Facility Bathymetric and Sub-bottom Survey

Coastal Petroleum have requested PMI to produce a methodology and proposal for the offshore survey that needs to be executed to facilitate a preliminary assessment of subsoil conditions and bathymetry of the proposed location for the new CBM facility in the Dominican Republic.

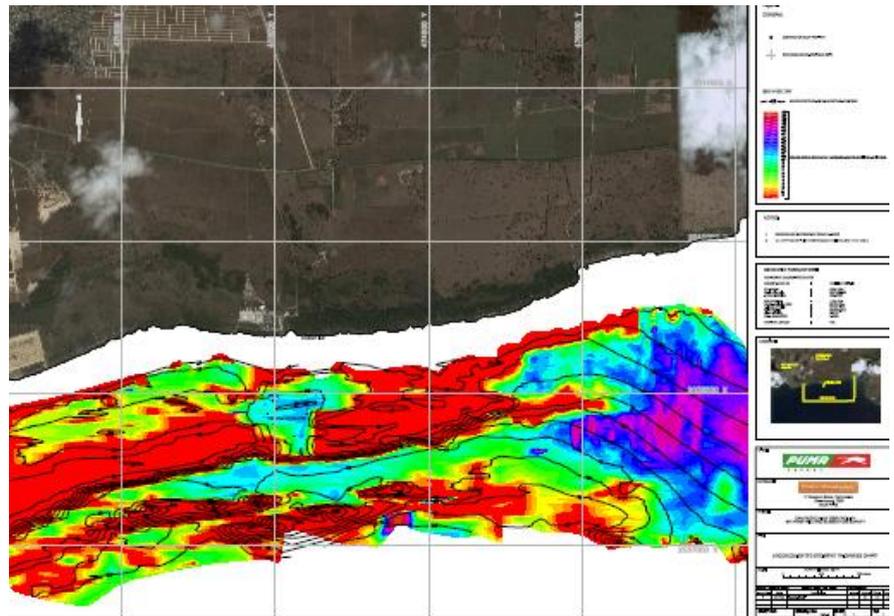
The proposed survey works are intended to identify the most suitable location for a new CBM facility, based on a minimum water depth requirement of at least 20 meters with sediment layer suitable for conventional anchor deployment at the loads envisaged. The survey works thus include the following:

- Marine Bathymetric Survey
- Sub Bottom Profiling

#### The Works

All survey positioning was done as specified in the World Geodetic System 1984 (WGS84) Spheroid. All position data has been converted to UTM grid projection using Zone 19N parameters. All positioning was done with very accurate (better than 2cm) Real Time Kinematic (RTK) Global positioning System (GPS) equipment.

A geophysical survey and sub-bottom profiling was done to accurately map



the lateral extent and thickness of unconsolidated sediment on the seafloor in the proposed survey areas, using an appropriate Pinger profiling system.

A bathymetric survey was done to accurately map the depth of the seafloor in the proposed survey areas, using an appropriate echo sounder system, applied tide and heave corrections and calibration instrumentation. A survey of an area of 14 km<sup>2</sup> with 200 meter apart line spacing has been done. This data was sufficient to obtain detailed depth contours of the area. The information showed offshore reefs parallel to the pockets. An area of 2.6 km<sup>2</sup> has been

coastline interspaced with deep sand marked for more detailed 50 meter spaced survey lines.

As part of the survey process, the results of each day were relayed to the design team to guide further surveys and ensure that a suitable location was found.

