

PROJECT DESCRIPTION

CLIENT: PETRO-CANADA INT'L, PHILIPPINES
Hydrocarbon Prospectivity Assessment

Recently

Completed

or

Ongoing

Projects

PROJECT DESCRIPTION

This project was conducted on behalf of the Canadian International Development Agency (CIDA) for the Philippine National Oil Company-Exploration Corporation (PNOC-EC) and Department of Energy (DOE).

This report is a reassessment of the hydrocarbon prospectivity of five basins/areas which are: the three onshore basins of Agusan-Davao, Cotabato, and Cagayan, and two offshore areas called Sandakan (South Sulu Sea) and East Busuanga (Mindoro Straits).

OBJECTIVES

To provide results that could be used to stimulate a renewed interest by international oil and gas companies in exploring the underdeveloped basins of the Philippines.

To provide a technical and business evaluation of Philippine basins to assist PNOC-EC in better evaluating acreage it currently holds and aid in decision-making on farm-in, farm-out and joint venture opportunities.

An additional aspect of the project was the transfer of technology and project methodology to the Philippine Exploration staff by working on the various basins/areas.

RESULTS

- The key controls necessary for hydrocarbon accumulations to occur were evaluated in all of the basins.
- The major play types in each of the studied basins were identified including carbonate buildups (reefs), structural anticlinal closures, and stratigraphic submarine fans.
- Risking was determined on a potential prospect for each play type and the probability of geologic success ranges.
- An economic analysis was run on the carbonate buildup (reef) prospect in each basin.
- Discussion on the risks and the uncertainty of source rock quality and maturity and the shallow occurrence of potential reservoirs.
- Recommendations for further work to assess the potential carbonate buildups and structural traps were made.

RECOMMENDATIONS

- New seismic be acquired along the western side of both the Agusan-Davao and Cagayan Basins.
- A comprehensive seismic stratigraphic analysis be carried out in the Sandakan Sub-basin.
- Further evaluation of source rocks was recommended in all the studied basins to better establish the oil window and degree of richness (TOC).
- Further work was recommended on the San Antonio gas field in the Cagayan Basin because it could provide a model for locating similar traps in the basin.



Suite 2500 530 - 8th Avenue S.W.
Calgary, Alberta, Canada
T2P 3S8
Tel: 403-269-4386
Fax: 403-266-4395
email: teknica@teknicaltd.com