

## **New, Effective and Efficient Technology**

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EPTC has been actively working with domestic research institutions and universities to develop new oil and gas and geothermal exploration and production technologies that are inexpensive as well as being appropriate for Indonesia's geological, topographic and social conditions.

Studies and research carried out during 2009 included:

- Production of basin modeling software;
- Studies of software development for seismic data processing using the Common Reflection Surface (CRS) methodology;
- Studies of development of 4D Microgravity software;
- Seismic data processing, georesistivity and geo- history data processing to study the maturity of the bedrock of the Eastern Indonesia Basin;
- Reservoir Characterization: A Multi Disciplinary Team Approach;
- G&G Studies of the North Sumatra basin
- Microseismic Studies, AVO Analysis and simultaneous inversion of 3D Rengancondong seismic data;
- Applied feasibility studies of the utilization chemicals from oil palm waste for EOR;
- Research Consortium "Optimization of Oil and Gas Pipeline Networks" – OPPINET;
- Application of Radial Drilling technology to increase production in Pondok Tengah (PDT-08) and Talisman (ASDJ-70, ASDJ-07 and SGR-01) JOBS;
- Development of PF Design 2.0 Expert System Software for the development and operation of gas fields requiring Acid Gas Removal Unit/ AGRU (CO<sub>2</sub> and H<sub>2</sub>S);
- Research into the technology of simulation model development for the design and evaluation of membrane technology as a contractor for natural gas absorption;
- Development of the Upstream Knowledge Management System;
- High system study: The determination of the local geoid using gravity survey and GPS data;
- Studies of the development of toposeismic software for topography survey data processing in seismic research;
- Studies of geodatabase development and web-based geographic information system using licensed and open sourced software technology.