

CCOP – Norway Program Program for Enhancing Public Petroleum Management of the CCOP Member Countries (EPPM)

Project 1 (P1), Petroleum Resource Management with focus on Natural Gas

P1W4: North Sumatra – Mergui Basin Case Study: Seismic Stratigraphy and Petroleum play concepts, 21 - 25 Feb 2011, Chiang Mai, Thailand

Summary Report:

P1W4 is the third workshop under *Project 1 (P1), Petroleum Resource Management with focus on Natural Gas* of the EPPM Program and organized by the CCOP Technical Secretariat with the cooperation of Department of Mineral Fuels (DMF), Ministry of Energy, Thailand and Norwegian Petroleum Directorate (NPD). The objective is conduct the basin modeling of North Sumatra – Mergui basin (cross-border case study) in order to have a better understanding of the big geologic picture of the basin to enhance geological interpretations and predictions - translating into a higher drilling success rates. A geological fieldwork in Chiangmai & vicinity is added in the agenda. The activities will be enabled by the knowledge of experts from the case study host countries (Indonesia, Malaysia, and Thailand), resource persons from Norway, and other CCOP Member Countries



The Workshop was officially opened by Dr. Boonrasri Tongpenyai, Deputy Director-General of the DMF. Likewise, the welcoming remarks were delivered by Prof. Dr. He Qingcheng, Director of CCOP Technical Secretariat and Mr. Knut Henrik Jakobsson, Principal Engineer of NPD.

A total of 33 participants represented the Member Countries- Cambodia, China, Indonesia, Korea, Malaysia, Philippines, Timor-Leste, Thailand, and Vietnam. Also participating are representatives from ASCOPE and CCOP Technical Secretariat. The technical sessions covered *seismic stratigraphy and common risk segment maps* with lectures, exercises and analysis using data sets from the case study. Training/workshop led by PETRONAS experts led by Mr. Robert Wong. In addition, topics *Petroleum System assessment and play/prospect analysis* were presented by NPD with some examples of case histories in Norway & other petroleum basins of the world.

Prior to the workshop, a coordination meeting was conducted with the participation of the 3 case study countries – Indonesia, Malaysia and Thailand. The Meeting agreed on the continuing data integration for the study and the various tasks assigned to each case study country, including the works on fine tuning the pre-P1W4 data and basin modeling.

Outcomes & Way Forward

Regarding the respective tasks of the case study countries,

1. Malaysia had carried out the seismic facies mapping for Keutapang and Baong Formations that covers Indonesia and Thailand. They also firmed up the general understanding of the environment of deposition for Keutapang & Baong Formations throughout the cross-border study area. They have also constructed the chronostratigraphic chart and Common Risk Segment (CRS) map for Baong and Keutapang formation. The outcomes of the study has been presented by Mrs. Noor Farinda and Mr. M. Razali from Petronas.
2. Indonesia will update the basin modeling and fine tune with the data sets from Thailand & Malaysia.
3. Thailand and Indonesia will help Malaysia to fine tune the well correlation, chronostratigraphic chart and Common Risk Segment (CRS) maps.
4. Indonesia and Malaysia will help Thailand to fine tune the structural cross-section of the study.
5. Malaysian team (Led by Mr. Robert Wong) from Petronas had conducted exercises and discussions on sequence stratigraphy, chronostratigraphic chart and Common Risk Segment (CRS) map using case study data sets.

6. Main achievements: Sharing and compilation of data from three case study countries that share parts of the same petroliferous basin, conduct of basin modeling and basin analysis in joint workshops and field-work, is unique and provides a better basis for interpretation and assessment of the petroleum potential in the basin. The experiences gained are shared with other CCOP Member Countries through their participation in the workshops. These activities also provide opportunities for young geoscientists from the region to learn and interact with the experts.
7. Next workshop is planned to be held around September, 2011 in (JogJakarta?) Indonesia.
8. USB memory flash was distributed to all participants containing all documents and pictures of the workshop. The EPPM website <http://www.ccop.or.th/eppm/> is also updated with materials from P1W4 that can be downloaded for free.