

CCOP-DANIDA
Institutional Capacity Building Project ICB-CCOP1
Sulu Sea—East Sabah Basin Case Study Meeting
22-23 May 2007, Kuala Lumpur, Malaysia

Report on proceedings and discussions at the Meeting

Date and Venue:

The meeting was held on 22-23 May, 2007, in the PETRONAS Visualization and Collaborative Center, PETRONAS Twin Towers

Address: Level 22, Tower 2, PETRONAS Twin Towers

KLCC, 50088 Kuala Lumpur, Malaysia

Tel: (603) 23313135, Fax: (603) 23313238

Local Organizer: Petroleum Resource Assessment and Marketing Petroleum Management Unit, PETRONAS

Participants:

Twenty (20) geoscientists from two (2) CCOP Member Countries: Malaysia and The Philippines attended the meeting.

The represented agencies/institutes were:

- ❖ Petronas, Malaysia
- ❖ Department of Energy (DOE), the Philippines
- ❖ Geological Survey of Denmark and Greenland (GEUS)
- ❖ CCOP TS

The total participants of the meeting are twenty-three (23), detailed name list of participants is attached as Annex 1.

Program:

The detailed program of the meeting is provided as Annex 2.

Background and Purpose of the Meeting:

This meeting is organized as suggested in the ICB-CCOP1 Project Ho Chi Minh workshop. All the

maps of basin scale study and basin modeling result of the Sulu Sea – East Sabah basin case study will be merged, correlated and finished during this meeting. They will establish the final cooperation work plan focusing especially on the final report of the joint case study.

The following tasks were set up for the meeting:

1. Present maps generated after the Manila meeting
2. Merge and correlate the basin modeling result
3. Discuss the allocation for writing the final report
4. Setup the accomplishment deadline for submitting the final report

Record of the Proceedings and Discussions at the Meeting:

On behalf of PETRONAS, Mr. Effendy Cheng Abdullah, Senior General Manager, Petroleum Resource Assessment and Marketing, Petroleum Management Unit, PETRONAS delivered his welcome speech to all the participants. In his speech, he reviewed the implementation of ICB-CCOP1 Project, especially on the progress of the Sulu Sea—East Sabah basin joint case study. He said that the meeting today was a part of the fulfillment of that agenda - to finalize the well and seismic correlations, to complete the play assessment and discuss on the final report. He believed, by the end of the project, all of the geoscientists involved would gain by then a better understanding of the geological setting and the petroleum geology of the Sandakan basin. (Annex3 Mr. Effendy Cheng Abdullah's speech)

In the following, Mr. Chen Shick Pei, Director of CCOP Technical Secretariat, gave his comprehensive welcome remarks. He extended a warm welcome to all participants and expressed the deep appreciation to the local organizer's support for holding this meeting in PETRONAS. He reviewed the implementation of the ICB-CCOP1 Project, especially on the two cross-border case studies, the Yinggehai-Song Hong and the Sulu Sea-East Sabah basins case studies. He highly appraised the achievements of joint case study during the past two years. He mentioned the ICB-CCOP 1 project is now at the final 7 months of its 36-month project duration. He anticipate that the final report will be completed by end of August and the dissemination seminars to inform the stake-holders of the countries hosting the case study will be held in the 4th Quarter of 2007. He expect that the whole project will be completed by end of December, 2007 according to plan. He expressed his sincere thanks to all the efforts and supports from the CCOP Member Countries, especially case study host countries, as well as the hard work of the ICB-CCOP1 Project Coordinator, Mr Liu Liqun and Project Resource Person, Mr Ioannis Abatzis. At the end, on behalf of CCOP, he deeply appreciated the Royal Danish Government through the Royal Danish Embassy in Bangkok for the generous support for this Project (Annex4 Mr Chen Shick Pei's speech).

After the opening ceremony, the meeting continued with a presentation of Mr Liu Liqun, Project Coordinator of the ICB-CCOP1 Project. He reviewed the implementation of the project and introduced the work plan 2007. Finally, he stated the task and the expect outputs of this working meeting.

Follow up Mr. Liu's presentation, the joint case study research team members made the

presentation on the case study progress since last workshop in Ho Chi Minh, Vietnam in March 2007. Mr. Chan Eng Hoe, Petronas, Malaysia, reported their basin modeling results on case study according to the minutes of last workshop in Ho Chi Minh. Then, Ms. Ma. Corazon Sta. Ana, DOE, Philippines, made the presentation from Philippines side. They introduced that their basin modeling result. Mr. Zulhaimi Bin Abdul Rahman, Petronas, Malaysia presented one of their state-of-art tools, using 3D visualization facility to identify the channel sands body spatial distribution for reservoir recognition. Some issues related to the join case study were discussed during the presentations.

After the presentation and discussion, the meeting was moved from 3D visualization room to collaboration room. Therefore, the joint case study partners worked together in front of the workstation and seismic profile to make output merging more efficient. Both parties discussed and worked hardly on map merging and basin modeling result correlation.

During the two day intensive work, all of the merging work was carried out in the office collaboration room, the raw data was more easily accessible from the desktop. All the research team members were involved deeply. The detailed work plan toward the accomplishment of the final report were made during the meeting (Annex 5 Mintues of the meeting).

During the warp up, Mr. Effendy Cheng Abdullah, Senior General Manager, PETRONAS expected the outputs of this joint case study could be disseminated in the AAPG Annal Meeting later on.

On 23 May, 2007, Director Chen Shick Pei, CCOP Technical Secretariat together with Mr Ioannis Abatzis, Representative of Denmark to CCOP, and Senior Geophysical Adviser of the Geological Survey of Denmark and Greenland (GEUS), Mr Liu Liqun, ICB-CCOP 1 Project Coordinator, visited Danish Embassy in Kuala Lumpur, Malaysia. The progress of the implementation of ICB-CCOP1 Project was introduced to H.E. Mr. Borge Petersen, Ambassador Extraordinary and Plenipotentiary of Denmark to Malaysia and the Philippines and his colleagues.



**INSTITUTIONAL CAPACITY BUILDING IN CCOP COUNTRIES,
PHASE 1 (ICB-CCOP1)**



Group photo of all the ICB-CCOP1 Kuala Lumpur Meeting participants



Watching the Output in 3D Visualization Center at PERONAS on 22 May, 2007.

3D Visualization Presentation during the meeting



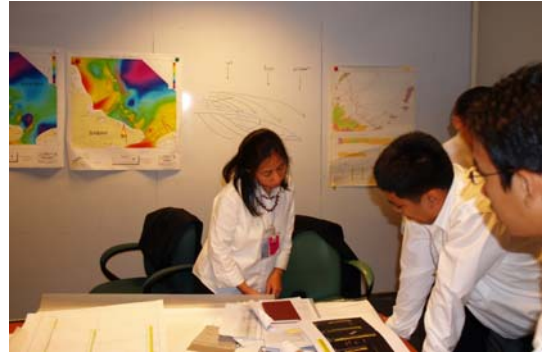
Presentation during the meeting



**Mr. Khairul Azlan Bin Mustapha, ICB-CCOPI
Project Postgraduate Grants Receiver,
Postgraduate Student, University of Malaya,
Reported His Study in the Case Study Area
under the Sponsorship of ICB Grants**

Discussion and merging the maps





Courtesy Call on Royal Danish Ambassador in Kuala Lumpur



Presented token and CCOP book to H.E. Mr. Borge Petersen.







Malaysian Culture Events



Annex 1 List of Participants





CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1 Sulu Sea—East Sabah Basin Case Study Meeting 22-23 May 2007, Kuala Lumpur, Malaysia

DISTINGUISHED GUESTS

NAME	POSITION / ADDRESS
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Annex 2

PROGRAM

Day 0: Monday, 21 May

Arrival of Participants / Check-in Hotel

Day 1: Tuesday, 22 May

08:15 Arrival at Lobby of PETRONAS Tower 2 to be escorted to meeting venue

08:30 Registration at PVIC room (level 22, tower 2) CCOP TS

09:00 Opening Ceremony:

Welcome Speech by Mr. Effendy Cheng Abdullah, Senior General Manager, Petroleum Resource Assessment and Marketing, Petroleum Management Unit, PETRONAS

Welcome Remark by Mr. Chen Shick Pei, Director of CCOP Technical Secretariat

Welcome Address by Mr. Ioannis Abatzis, Representative of Denmark to CCOP

09:30 Group Photo and Coffee/tea break

10:00 Introduction

10:10 Implementation of ICB progress and task of the meeting by Mr. Liu Liquan

10:30 Presentations by the Malaysia, Philippines delegations

Outputs of the case study during the basin modeling period

Sulu Sea-East Sabah Basin Mr. Robert Wong Hin Fatt / Research team

Mr. Guillermo H. Ansay / Research team

12:00 Lunch Break

13:30 Discussion on merging the maps and basin modeling outputs at Collaboration room

15:00 Coffee/tea break

15:15 Continue discussions

17:30 End of Day 1

19:00 Welcome Dinner at Saloma Bistro

Day 2: Wednesday, 23 May

08:30 Continue discussions at Collaboration room

10:00 Coffee/tea break

10:20 Continue discussions at Collaboration room

12:00 Lunch Break

13:30 Discussions on the draft of the final report of case study

15:00 Coffee/tea break

15:20 Minutes and wrap up

17:00 End of Day 2

19:00 Farewell Dinner at Seri Melayu Restaurant

Day 3: Thursday, 24 May

Check-out, Departure flight

Annex 3

WELCOME SPEECH OF SENIOR GENERAL MANAGER OF PRAM, PMU, PETRONAS

MR. EFFENDY CHENG ABDULLAH

**At the opening ceremony CCOP-DANIDA Institutional Capacity Building Project
ICB-CCOP1**

**Sulu Sea—East Sabah Basin Case Study Meeting
22-23 May 2007, Kuala Lumpur, Malaysia**

Mr. Chen Shick Pei, Director of CCOP Technical Secretariat,

Mr. Ioannis Abatzis, Danish Representative to CCOP,

Mr. Liu Liqun, Project Coordinator, ICB-CCOP Project

Mr. Zainal A. Matassan, Secretary In-Charge, ASCOPE

Fellow delegates from Phillipines,

Ladies and Gentlemen,

First of all, on behalf of PETRONAS, I warmly welcome all of you to our Twin Towers and this PVIC room (PETRONAS Visualization and Collaborative Center). For those of you who have come to this PVIC room you may wish to take this opportunity to get Mr. Robert Wong to make some arrangement for you to look at some of 3D visualization facilities that we have over here. This is one of the state-of-art tools that we have put in place for our geoscientists.

We appreciate the efforts by CCOP and Danida to bring together geoscientists from across the Sulu Sea-East Sabah Basin for the mutual benefits of all parties concerned. This basin straddles the international boundary of Malaysia and Philippines. The western part of the Sulu Sea-East Sabah basin is located in Malaysian waters while the eastern part in Philippines waters. Previously, each countries conducted its own geological studies in isolation without having any benefit of information and data from the neighboring country. Malaysia has the data mainly on coastal plain and shallow marine deposits of the Tertiary sequences and Philippines mainly the deeper water sedimentation. Hence our individual basin group to tended to study the area in silo and failed to see the total picture of the geology of the area.

This project is indeed timely and it provides the great opportunity for both parties to join hands to conduct the geological work of the area and have a more comprehensive understanding of the petroleum geology of the basin. Besides sharing the geological and geophysical data, the geoscientists will also be sharing thoughts and ideas. Hopefully, this will lead to a better understanding of the petroleum system of the basin which in turn will promote more exploration investment efforts for the benefits of both countries.

I understand that this group had its first meeting in Sandakan town, Sabah in February 2006 to discuss the geology on both sides of the border. The group also agreed on what data to share with each other and a field trip to the Dent Peninsula to study the outcrops which are analogous to the reservoirs in the subsurface. The second meeting in Manila was undertaken to complete four

regional structure maps across the whole basin. During its last meeting in Ho Chi Minh City, Vietnam last March, the group agreed on the well and seismic correlations across the border and the content of the final report for this project, which I believe is targeted to finish sometime in August this year. The meeting today is part of the fulfillment of that agenda - to finalize the well and seismic correlations, to complete the play assessment and discuss on the final report. I believe by the end of the project, all of the geoscientists involved will gain by then a better understanding of the geological setting and the petroleum geology of the Sandakan basin.

Ladies and Gentlemen,

As we are heading towards the last phase of the three-year project, I hope that all of the team members will have a productive discussion and take this opportunity to tie up all the loose ends of this project. Finally, as this year is also a “Visit Malaysia” year, it is also my wish to see that our visitors hope that your stay here will be an enjoyable and memorable one.

Thank you.

Annex 4

WELCOME REMARKS OF DIRECTOR OF CCOP TECHNICAL SECRETARIAT

MR. CHEN SHICK PEI

**At the opening ceremony CCOP-DANIDA Institutional Capacity Building Project
ICB-CCOP1
Sulu Sea—East Sabah Basin Case Study Meeting
22-23 May 2007, Kuala Lumpur, Malaysia**

Mr Effendy Cheng, Senior General Manager, Petroleum Management Unit, PETRONAS

Mr. M Yazid Mansor, Senior General Manager, Exploration Division (XD), Petronas Carigali Sdn. Bhd. (PCSB)

Mr Zainal A Matassan, Secretary in Charge, ASCOPE

Mr Ioannis Abatzis, Representative of Denmark to CCOP, Senior Advisor GEUS

Colleagues from PETRONAS and the Philippines Department of Energy,

Mr Liu Liqun, ICB-CCOP 1 Coordinator

Distinguished Guest, Ladies and Gentlemen

Selamat Pagi and Good Morning

On behalf of CCOP, I would like to extend a very warm welcome to the DOE and Petronas experts present here this morning for the final merging of Sulu Sea-East Sabah Basin data and information under the ICB-CCOP 1 Project. We express our deep appreciation to Mr. Effendy Cheng of PETRONAS and his colleagues in Petroleum Resource Assessment and Marketing for their excellent arrangement and preparation for this meeting. We thank both the PETRONAS and DOE's experts for their hard work in getting the necessary data and information ready for the merging work to be conducted in this meeting after the first meeting which was successfully held in January 2007 in Taguig City, hosted by the DOE, the Philippines.

I am pleased to note that the January meeting this year in the Philippines has achieved a lot, thus contributing to the good progress that has been made for the Sulu Sea-East Sabah Basin case study. At that meeting, it was felt that the remaining modeling work should be completed speedily and another meeting will be held to integrate the modeling results. The fact that this meeting is held shows that such work has been completed by both the Malaysian and the Philippines scientists, and that marks the end phase of the technical activities under the project.

Despite the relatively slow start, I am please to say that the ICB-CCOP 1 project is progressing well and on schedule. Work in the other case study area, Song Hong – Yinggehai basin is also moving ahead rapidly. After this final meeting of the Sulu Sea – East Sabah Case Study, all the technical works are nearing completion and preparation of the final reports I was told has already commence.

As you are probably aware, the ICB-CCOP 1 project is now at the final 7 months of its 36-month project duration. We anticipate that the final report will be completed by end of August and the dissemination seminars to inform the stake-holders of the countries hosting the case study will be held in the 4th Quarter of 2007. We expect that the whole project will be completed by end of December, 2007 according to plan.

As you are aware, the main objective of the project is to promote understanding and cooperation among countries in the region that can contribute to prevention diplomacy and regional harmony, thus facilitating regional economic development. Judging by the success of the activities mentioned above, we have already largely attained this principal objective. This has been well publicized in various briefings, meetings and our dialog with officials in charge of DANIDA. In general, all the parties involved are extremely pleased with the performance of the project, in attaining the goals, and making the impacts despite its complexity. This is a good foundation for us to propose a phase 2 to the ICB-CCOP 1 Project.

I remembered Mr Effendy Cheng's advice when we first embarked on the preparation and subsequent implementation of this project. He said that "the project outputs must be of use and can contribute to the petroleum resource development of the region". We hope that the various activities organized have benefited the Member Countries and the outputs will be of practical and economic use in assessing and promoting the petroleum resource development of the region.

To conclude, I would once again thank Mr Effendy, Mr Yazid and Mr Matassan for giving us their time to join us as our honoured guests in this meeting. I also like to thank the Sulu Sea – East Sabah case study team members for their commitments and diligence in making the joint study under the Sulu Sea-East Sabah case study. We thank Mr. Liu Liqun, the ICB-CCOP 1 Project Coordinator for the efficient coordination of the project

Our appreciation also goes to Mr. Ioannis Abatzis for his continuing and untiring efforts in rendering useful advice and guidance for the project. He is also most active in helping to identify new opportunities for CCOP: Thank you, Mr Abatzis.

On behalf of CCOP, we would like to thank the Royal Danish Government through the Royal Danish Embassy in Bangkok for the generous support for this Project.

Before I end, I would like to thank PETRONAS and DOE for their unwavering support of the project.

I wish you all a successful Case Study Meeting.

Terima Kasih and Thank you

Annex 5

**Minutes of the CCOP-DANIDA
Institutional Capacity Building Project ICB-CCOP1
Sulu Sea—East Sabah Basin Case Study Meeting
22-23 May 2007, Kuala Lumpur, Malaysia**

Task Allocation of Sulu Sea—East Sabah Basin Case Study Final Report
Compilation

Write up

1. Basin Overview (Ija & Coco)
 - 1.1. Basin Background
 - 1.2. Exploration History

2. Regional Geology (Allagu)
 - 2.1. Tectonic and Basin Evolution
 - 2.2. Structure Style and Framework
 - 2.3. Stratigraphy and Sedimentary Sequence

3. Seismic Interpretation and Well correlations (Zul & Coco)
 - 3.1. Background
 - 3.2. Regional Seismic Section
 - 3.3. Time Structure Maps & Depth Structure Maps
 - 3.4. Isopach Maps
 - 3.5. Well Correlation
 - 3.6. Paleofacies Maps (2 maps) & Geoseismic Sections (2 dip & 1 strike)

4. Petroleum System Analysis (Keith & Coco)
 - 4.1. Source Rocks
 - 4.2. Reservoir
 - 4.3. Seals
 - 4.4. Traps
 - 4.5. Timing
 - 4.6. Basin Modeling
 - 4.6.1. Modeling Method
 - 4.6.2. Parameter Preparation
 - 4.6.3. Modeling Results

5. Play Fairway (RW)
 - 1.1 Play Types
 - 1.2 Play risking and ranking

6. Conclusion (RW)

E&P Strategy-exploration targets

Enclosures/Appendix/Annex:

1. Well Correlation – A3
2. Geoseismic Cross section
3. Depth Structure Maps
4. Isopach Maps
5. Paleofacies Map- Basement to Mid Miocene & Middle Miocene to Late Miocene
6. Play Map
7. 1D Modelling & 2D Modelling

- **All writing to be completed by 3rd week of June 2007 (1st draft). To be reviewed by Robert Wong (July 2007).**
- **Final draft will be verified by both parties & CCOP TS in August 2007 in Thailand.**