ANNEX 38

CCOP Petroleum Policy and Management (PPM) Project
1st Workshop, Indonesia – Kutei basin case study
21-26 July, 2003

PROGRAM

Day 1, July 21, 2003

08.00-09.00 Registration Secretariat
09.00-09.15 Address by PPM Project Coordinator Mr. Gunnar Soiland
09.15-09.30 Address by Perm. Rep. Indonesia Mr. Wimpy Cecep
09.30-09.45 Address by Head of BP Migas Mr. Rahmat Sudibyo
09:45-10:30 Group photo and Coffee Break
10:30-11:00 Introduction to the Case Study National Coordinator
11:00-12:00 Geological framework of Kutei Basin Case Study Team
12:00-13:00 Lunch
13:00-14:00 Resource Assessment and Management Representative of Unocal
14:00-15:00 Resource Assessment and Management Representative of Total
15:00-15:30 Coffee Break
15:30-16:30 Resource Assessment and Management Representative of Vico
16:30-17:30 Spec Seismic Survey in East Kalimantan Geco Prakla
19:00 Welcome Dinner

Day 2, July 22, 2003

08:30-09:30 Indonesian Licensing and Contract System EP Migas
09:30-10:30 Fiscal System in OPEC Countries OPEC Staff
10.30-11:00 Coffee Break
11:00-12:00 Fiscal System Applied in Indonesia BP Migas
12:00-14:00 Lunch
14:00-14:30 Resource Classification in Indonesia BP Migas
14:30-15:00 CCOP Resource Classification Mr. Gunnar Soiland
15:00-15:30 Coffee Break
15:30-16:30 Risk Assessment Mr. Gunnar Soiland
16:30-17:30 Group Discussion and Presentation Group

Day 3, July 23, 2003

07:00-16:00 Excursion Secretariat
19:00 Cultural Dinner

Day 4, July 24, 2003

08:00-12:00 Yogyakarta City Tour Secretariat
12:00-13:30 Lunch
13:30 Move to Cepu
15:30 Visit Sangiran, Phytecanthropus Erectus Soloensis
18:00 Arrive at Cepu Secretariat

Day 5, July 25, 2003
08:00-09:00 Pusdik Migas in brief Director of Pusdik Migas
09:00-12:00 Visit Wonocolo Marginal Oil Field Secretariat
12:00-13:00 Lunch
13:00-15:00 Economical Analysis on Kutei Basin Group Discussion
15:00-15:30 Coffee Break
15:30-18:00 Continue Group Discussion
19:00 Farewell Dinner
Day 6, July 26, 2003
08:00-10:00 Group Presentation Group
10:00-10:30 Coffee Break
10:30-12:00 Future Needs and Summaries Mr. Gunnar Soiland
12:00-14:00 Lunch
14:00 Move to Yogyakarta Secretariat

List of Participants

<table>
<thead>
<tr>
<th>LIST OF PARTICIPANTS</th>
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<td>1ST WORKSHOP OF THE INDONESIAN PPM CASE STUDY</td>
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Summary

The 1st Indonesia Workshop was successfully conducted in Yogyakarta and Chepu on 21-25 July 2003. The participants are mostly coming from the government agencies and oil and gas industry in Indonesia as well as management and technical representatives from the six CCOP Member Countries.

The presentations and discussions covered an overview of the various activities conducted by the operating companies in the mature Kutei basin and highlights of the status of the new regulations in Indonesia. Representatives from service companies such as PGS and Roxar also gave technical presentations on the works that has been carried out by their respective companies in the basin. The CCOP
Technical Secretariat Project Coordinators presented the CCOP classification system and as well as the CCOP guidelines for risk assessment of petroleum prospects. These guidelines are product of previous Norwegian-funded Projects in CCOP.

Lively group discussions on the fiscal systems were also accomplished as well as hands-on introduction to the software GeoX with simple exercises on prospect and portfolio analysis. The GeoX exercise was conducted in the PUSDIKLAT MIGAS training center in Chepu, about 5 hours travel by bus from Yogyakarta.
ANNEX 39

2nd WORKSHOP ON THE INDONESIAN PPM CASE STUDY
March 8-13, 2004, Bandung, Indonesia

PROGRAM

Day 1, March 8, 2004

08:00    Registration

09:00    Address by PPM Project Coordinator Mr. Gunnar Soiland

09:10    Address by Secretary of Norwegian Ambassador Ms. Marte Gerhardsen

09:20    Address by PR of Indonesia to CCOP Mr. Simon F. Sembiring

09:30    Group Photo and Coffee Break

10:00    Review of the 1st Workshop and Introduction Mr. Sim Caluyong, CCOP TS

10:30    Fiscal System in Indonesia Mr. Bambang Yuwono, BP Migas

12:00    Lunch

13:00-16:00 Economical Analysis (Indonesian Experience) DR. Arsegianto, ITB

19:00    Welcome Dinner

Day 2, March 9, 2004

08:00    Integrated Project Management Schlumberger

10:00    Coffee Break

10:30    GeoX: Resource Assessment tool Mr. Sim Caluyong, CCOP TS

11:30    Geothermal Field in Indonesia Geological R&D Center

12:00    Lunch

13:00-16:00 Visit GRDC and Geological Museum

Day 3, March 10, 2004

08:00-16:00 Excursion, Kamojang Geothermal Field

Day 4, March 11, 2004

08:00    Resource Assessment Oil Company

10:00    Coffee Break

10:30    Exercise on Resource Assessment using GeoX PPM Team

12:00    Lunch

13:00    Exercise on Resource Assessment (cont’d) PPM Team

15:00    Coffee Break

15:15    Exercise on Resource Assessment (cont’d) PPM Team

16:00    Group Discussion

Day 5, March 12, 2004

08:00    Resource Assessment and POD (1) DR. Abdul Muin, BP Migas

09:00    Resource Assessment and POD (2) M. Suhada, Unocal

10:00    Coffee Break

10:30    Petroleum Economics and GeoX Full-cycle analysis Dr. Alfred Kjemperud, The Bridge Group
Basic economic principles
- Specific Petroleum economic aspects
- Economy of Royalty/Tax systems
- Economy of Production Sharing Agreements

**Economic Modelling**
- Economic models in general
- The full cycle GeoX model

**19:00 Farewell Dinner**

Day 6, March 13, 2004

**08:00 General Exercises**
- Simple exercises using deterministic modelling in spreadsheet based models and in GeoX
- Introduction to a Full cycle probabilistic project evaluation in GeoX

**Specific Exercise**
- Full cycle probabilistic GeoX exercise

**Group Discussion**

**16:00 Workshop Summaries and Wrap Up**

**18:00 Departure to Jakarta by bus (Overnight stay at Hotel Atlet Century Park Jakarta)**
## List of Participants

### The 2nd Workshop of Indonesian (PPM) Case Study of the Mature Kutei Basin, Bandung, Indonesia, March 8-13, 2004

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Summary:

The 2nd PPM Indonesia Workshop was successfully conducted at the Grand Aquila Hotel, Bandung on 8-13 March 2004 and was attended by 30 participants from the 9 Member Countries of CCOP.

The workshop focused on resource assessment and economic analysis of the petroleum accumulations in the mature Kutei Basin, the case study basin. Resource persons from the Indonesian upstream government agencies as well as from operating
companies gave presentations on such topics as fiscal regimes/PSC, plan of development (POD), basic petroleum economics, resource assessment and risking systems and integrated project management system. Also, a review of the usage of the GeoX software was given in with exercises on resource assessment and full-cycle analysis.

An expert from Norway, Dr. Alfred Kjemperud gave a presentation on petroleum economy and modeling as well as guided the workshop in the use of GeoX full-cycle tools for the economic analysis exercises (using data from UNOCAL’s Attaka South Field), particularly the taxation system, cost parameter inputs, and calculating government take. He also showed sample economic analysis from petroleum fields of other countries and how GeoX was used as a tool to assess the viability of these fields.
ANNEX 40

Petroleum Policy and Management (PPM) Project
The 3rd Workshop Indonesia Kutei Basin Case Study
July 18-22, 2005, Surabaya, Indonesia

PROGRAM

Day 1, Mon 18 July

08:30  Registration           CCOP/TS
09:00  Opening Remarks        CCOP/TS
09:10  Welcome Remarks        PR of Indonesia to
       CCOP

09:20  Group Photo and Coffee Break

10:00  Workshop Agenda and Review of the Past PPM Activities
       CCOP/TS

10:45  Indonesia Presentations:
       • Supply/Demand Scenario   BP MIGAS
       • Oil Field Development: Oil Supply Security  Edi Hermantoro,
         Dit EP Migas
       • Plan of Development Phase I   Mr. Saryono, Dit
         EP Migas
       • The Marginal Fields in Indonesia and the Government Policies
         that improved the economy of these fields  A. Muin, BP
         MIGAS

12:00  Lunch

13:00  Indonesia Presentations (cont’d)
       Development Plan and Cost Analyses
       Schlumberger (tbc)

15:00  Coffee Break

15:30  Development solutions (technology):
       Introduction and background of various practices in Norway

Resource Persons:
1. Mr. Ole Ekern, Norway
2. Mr. Kjell Aalandslid, SAGEX (Norway)

16:30  Summary of Day 1

19:00  Welcome Dinner

Day 2 & 3, Tue&Wed 19-20 July (coffee/tea breaks at 10:00 and 15:00, and
lunch at 12:00H)

08:30  Development solutions (technology):
       Messrs. Ekern and
       Aalandslid

       • Marginal field solutions and effective use of infrastructure
Main focus: Utilize existing platform capacities / equip and utilize transport systems (pipelines and offshore storage/ loading).
✓ Tie-back of sub sea completed wells or from dry wells on simple riser platforms.
✓ Utilize processing- and compressor capacity.
✓ Stand-alone solutions where distance to infrastructure is too large (technical solutions dependent on water depth).
✓ Maximise utilisation of pipeline capacity:
  - pressure upgrade if necessary / possible.
  - area related gathering pipeline if distance to shore is too far.

**Technology solutions for small gas discoveries**
Main focus: An area plan and evaluation of possible gas centre and gathering pipelines
✓ Small jackets / collection of jackets with a gas-centre - most likely development philosophy.
✓ Evaluation of natural landing sites and user potential for gas.
  - one or more gathering pipelines
  - Need for onshore facilities / processing
  - Market: Power generation/Chemical industry/Fertilizer production/Household use

**Field economics**
Main focus: Economic parameters and sensitivity of the field economy to these parameters
✓ Fiscal regime: roles of the government, sharing of income and government take
✓ Principals for petroleum economy and risk evaluation
  - Role of the government and industry
  - Risk elements and management
  - Project economy
✓ Taxation

*Group exercises – to synthesize and put into practice the knowledge learned from the lectures!!*

16:30 **Summaries**

**Day 4, Thur 21 July** *(coffee/tea breaks at 10:00 and 15:00, and lunch at 12:00H)*

**Morning session**
A case study of a marginal field in the Kutei Basin
a) Presentation of data - PERTAMINA (tbc)
  • Location of the field (with maps, seismic section, pictures, if available)
  • Water depth and distance to nearest shore or market
    • Resource type (oil and/or gas?) volume, produced volume, recovery factor, production rate
  • Development, production, and transport system (Technology solutions)
  • Cost: Capex and opex
  • Fiscal regime
b) Group exercise on Economic analysis and sensitivity tests (spreadsheets) – Messrs. Ekern and Aalandslid

**Afternoon session**

Group discussion/summary – Messrs. Ekern and Aalandslid

- Economy of the field - where is it sensitive?
  - Resource size and Oil price
  - Technology solutions
  - Government controls and intervention
- Fiscal system
  - Is there a need to adjust the system? If so, how and what would be the triggers?
- Incentives to encourage new investment for exploration
- Government Strategies to promote the development of marginal fields

PPM Future plans and programs CCOP TS
Workshop Evaluation
Closing remarks

19:00 **Farewell Dinner**

Day 5, Fri 22 July

*Fieldtrip to geological outcrops in Eastern Java and Oil and gas fields*

List of Participants

Petroleum Policy and Management (PPM) Project
The 3rd Workshop Indonesia Kutei Basin Case Study
July 18-22, 2005, Surabaya, Indonesia

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Summary
The 3rd Indonesia case study workshop under the PPM Project on the topic *Marginal Fields: Development options, Technology, and Economics* was conducted in Surabaya City on 18-22 July 2005. The workshop was attended by 44 participants from technical and management representatives of the 8 CCOP Member Countries.

The main resource persons were Mr Ole Ekern and Mr Kjell Aalandslid, both consultants from Norway. The presentations and discussions focused mainly on

- Marginal field solutions and effective use of infrastructure
- Technology solutions for small gas discoveries
- Field economics
- The role of the government and industry in the development of marginal fields

The experts from Indonesia, particularly from BPMIGAS, presented the draft version of the marginal incentives for oil - the mechanism of availing the incentives and the conditions set by the government. The Member Countries (with experience in marginal fields) and the representatives from the Oil and Gas Industry of Indonesia shared their knowledge and experiences on management of marginal fields, highlighted by the tools and management systems that are used.

In summary, the workshop has recommended the following actions for marginal field policy development

- Complete mature basin strategy is required
- Exploration policy to reduce upfront commitments, but to maximize ideas
- Sharing data; compete on interpretation and creativity
- Marginal fields require new players
- But do not forget where the bulk volumes are coming from
ANNEX 41

The Petroleum Policy and Management (PPM) Project 4th Workshop of the Indonesia – Kutai Basin Case Study 13-17 June 2006, Jakarta, Indonesia

“IOR/EOR technologies and the role of the government in attracting additional/new investments in a mature basin”

Program

Day 1 – June 13, 2006

08:00 Registration
08:30 Opening Remarks
  • Mr. Simplicio P. Caluyong, PPM Project Coordinator, CCOP TS
  • Mr. Bambang Dwiyanto, Permanent Representative of Indonesia to CCOP
  • Mrs. Marte Gerhardsen, Norwegian Embassy

09:00 Group Photo, coffee/tea break

10:00 Introduction and review of past activities in the PPM Indonesia case study
Indonesia Presentation on EOR technologies
  • LEMIGAS
  • CALTEX
  • BPMIGAS

12:00 Lunch

13:30 Member Countries Presentations on EOR technologies
  • Malaysia
  • Thailand
  • Vietnam

15:00 Coffee Break

15:30 EOR/IOR technologies in Norway and other parts of the world -
    Resource Person: Mr. Gunnar V. Søiland, NPD & Mr. Egil Meisingset, MOPE
    - The bigger picture, world oil and gas supply demand scenario
    - Tools available for the government- legal and regulatory framework
    - Company objectives, identifying drivers for new and effective technologies, where the future is heading, recovery factors
    - Government and company partnership in making IOR/EOR a reality
    - Investment risks- the company and government perspectives
    - Plan for development and operation – role of government and company

16:30 Day 1 summaries
18:30 Welcome Dinner

Day 2 - June 14, 2006
08:00   EOR/IOR (cont’d)
10:00   Coffee Break
12:00   Lunch
13:00   EOR/IOR (cont’d)
15:00   Coffee Break
15:30   Group Discussion on EOR/IOR technologies, economy, identifying barriers in application and finding solutions

Day 3 - June 15, 2006 (am/pm coffee/tea break at 10:00-10:30 & 15:00-15:30 and lunch at 12:00-13:00)

The Government role: Country presentations of government strategies to attract new investments in mature basins, producing fields- “to get additional oil from the ground”
• by MIGAS- Indonesia
• by PERTAMINA - Indonesia
• by other CCOP Member Countries
• by NPD

Group Discussions- identifying challenges and solutions on new investment strategies and sharing of lessons learned

Day 4 - June 16, 2006 (am/pm coffee/tea break at 10:00-10:30 & 15:00-15:30 and lunch at 12:00-13:00)

• Continue with the government role and strategies for new investments
• Group discussion
• Summaries
• Workshop Evaluation

18:30   Farewell Dinner

Day 5 - June 17, 2006

Field trip - Visit the Safari Park Indonesia (departure time will be announced in the workshop)
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Summary

The 4th workshop of the Indonesia – Kutai basin case study was successfully conducted in Hotel Ciputra Jakarta on 13-17 June 2006. The workshop on “IOR/EOR technologies and the role of the government in attracting additional/new investments in a mature basin” was attended by 42 participants mostly technical and management representatives from 8 CCOP Member Countries.

The workshop is jointly organized by CCOP and LEMIGAS, Indonesia and comprise of presentations, group discussions, and field trip. The workshop
was officially opened by Mr. Bambang Dwiyanto, Head of the Geological Agency, Indonesia and Permanent Representative of Indonesia to CCOP. Also present during the opening ceremony were some distinguished guests led by Ms Marte Gerhardsen, First Secretary of the Norwegian Embassy-Jakarta, Dr Evita H Legowo, Director of LEMIGAS, and other guests from various petroleum agencies in Indonesia, resource persons, and participants.

The main resource persons were Mr Gunnar Soiland, senior geologist of the Norwegian Petroleum Directorate (NPD) and Mr Egil Meisingset, Assistant Director General of the Oil and Gas Department, Norwegian Ministry of Petroleum and Energy. Both resource persons shared Norway’s experiences, particularly in their best practices in management of petroleum resources, how they promote the development and application of new technologies to get additional petroleum from the ground, and how the government collaborates with the operating companies to achieve the ultimate goal of creating maximum value to the society from the petroleum resources.

The presentations of the CCOP countries focused on the various IOR/EOR technologies both applied and under research. The presentations also highlighted various government collaborations and strategies, guided by policies aimed at improving the field economics, thereby, resulting in an increased petroleum production. Group discussions and presentations were organized to support the presentations and encourage open exchange of knowledge and experiences on various issues related to the workshops’ topics.

Overall, the workshop provided an opportunity for the participants to learn and get updated on the application of new technologies to improve oil and gas production and also on government strategies to attract additional and/or new investments to get more oil from the ground from the Norwegian and CCOP Member Countries’ experiences.
ANNEX 42

Expert Visit to Indonesia, 6-9 December 2004
Economic Modeling of Fields and Prospects by use of GeoX

Alfred Kjemperud, The Bridge Group AS

Objectives and Expected outcome
When completing this workshop, the delegates will have a good understanding of deterministic and probabilistic economic modelling of petroleum projects, both prospects and developed fields. The delegates will have performed realistic exercises and should be able to initiate and carry out full scale projects with only limited supervising and assistance

Plan for Execution

**Day 1: 6 December 2004**
- Petroleum Economic modeling in general
- The full cycle GeoX modeling tool. Detailed description of the software
  - Deterministic modelling
  - Probabilistic modelling

Exercises
- Simple exercises using deterministic modelling in spreadsheet based models in GeoX
- Introduction to a Full cycle probabilistic project evaluation in GeoX

**Day 2: 7 December 2004**

Specific Exercise
Focus on production curve modeling
- Full cycle probabilistic GeoX exercise.

**Day 3: 8 December 2004**

Specific Exercise
Focus on Fiscal modeling
- Full cycle probabilistic GeoX exercise

**Day 4: 9 December 2004**

Specific Exercise
Demonstration of modelling by use of data from Indonesia and other realistic data
- Full cycle probabilistic GeoX exercise
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Expert Visit of the PPM Indonesia Case Study

COURSE ON ECONOMIC MODELING FOR OIL AND GAS FIELDS AND PROSPECTS
Jakarta, 6-9 December 2004

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Dr. Alfred Kjemperud of the Bridge Group AS (Norway) visited LEMIGAS office in Jakarta to conduct a course on Petroleum economics using the GeoX software. The objective of the course is for the participants to have a good understanding of deterministic and probabilistic economic modeling of petroleum projects, both for prospects and developed fields.

During the course the participants performed exercises on petroleum economic modeling using actual data from Indonesia and from other CCOP Member Countries. The participants were also introduced to the Full-cycle probabilistic project evaluation, which is one of the functionalities of the GeoX software. In addition, simple exercises using deterministic modeling using spreadsheet were conducted based models in GeoX to further facilitate the understanding of the economic analysis concept and methodologies.

The workshop was attended mostly by LEMIGAS technical staff and representatives from the other 3 CCOP Member Countries hosting the PPM Project case studies (Cambodia, China, and the Philippines).
ANNEX 43

Petroleum Policy and Management (PPM) Project
2nd Expert Visit to the Indonesia – Kutai Basin Case Study
13-14 December 2005, Carita, Indonesia

TRAINING COURSE ON DEEPWATER TECHNOLOGY

Program

All lectures by Professor Arnfinn Nergaard, University of Stavanger

Tuesday, 13 December, morning:

Part I : History and trends of Deepwater Development
Part II: Key Deepwater Technology issues

13 December, afternoon

Part III: General about Subsea Production Systems
Part IV: Platformless developments, where are we heading?

Wednesday, 14 December, morning

Part V: Offshore Drilling
Part VI: Deepwater Drilling and Completion

14 December, afternoon

Part VII: Deepwater Industry Structure
Part VIII: Authority and Management issues.
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2nd Expert Visit of the PPM Indonesia Case Study
COURSE ON DEEPWATER TECHNOLOGY
Carita, 13-14 December 2005

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Summary

The 2nd Expert Visit of the Indonesia Case study was organized primarily to help the needs of the Indonesia PPM team in understanding what are technologies and best practices that have been developed in petroleum fields around the world, in particular the deepwater areas of the Norwegian Continental shelf. In addition, the immediate desire of the hosts to understand what role the government has to play not
only to bring these technologies into an operational possibility but also economically - to optimize the benefits due to the state.

Professor Arnfinn Nergaard of the University of Stavanger, Norway was the resource person of the seminar. A total of 21 participants mostly from the upstream petroleum agencies in Indonesia and from other Member Countries of CCOP attended the seminar that was conducted in Carita, West Java on 13-14 December 2005.

Dr. Arnfinn Nergaard is a professor at the University of Stavanger within marine engineering and deepwater petroleum technology. He holds Masters Degrees in Naval Architecture and Petroleum Engineering and a Doctors Degree in Petroleum Engineering from NTNU, The Technical University of Norway.
The Dissemination Seminar of the Indonesia case study was conducted on 3 August 2006 at the LEMIGAS Conference Room. The Seminar was an opportunity for the Indonesian case study team members to present the results and recommendations of the study to the stakeholders. Leading the representation of the stakeholders is Ms. Nenny Sri Utami, head of the Research and Development Agency of the Ministry of Energy and Mineral Resources together with other senior management representatives from the Ministry of Energy and Mineral Resources, LEMIGAS, PUSDIKLAT MIGAS, and BP MIGAS. Also present is Mr Bambang Dwiyanto, head of the Geological Agency and Permanent Representative of Indonesia to CCOP.

Mr Sasongko Hadipandoyo (National Coordinator), Mr Bambang Wicaksono (Co-coordinator), Mr. Jonathan Setyoko, and Mr Silambi made the presentations on behalf of the Indonesia PPM case study team. The Seminar is the last activity of the PPM Project Indonesia Case Study.
The presentation of the PPM Indonesia team focused on the following:

1. Resource Assessment
2. Licensing Strategy
3. Fiscal Regime
4. Mature Basin Development Policy

The Team has also reported to the Stakeholders that their capacities and capabilities in petroleum resource management have been improved.