

March 2011 3rd Edition



# The 35<sup>th</sup> IPA Annual Convention and Exhibition "Indonesia Energy: Growth, Security and Sustainability"

18<sup>th</sup> - 20<sup>th</sup> May 2011 Jakarta Convention Center

### Technical Program

Oral Presentations and Poster Sessions covering the latest advance technology in Geosciences, Engineering, Resources Commercialization, Human Resources, Health, Safety and Environmental and other non-technical areas around the world

### Plenary Sessions

Presenting well-known speakers consisting of senior government officials, energy company executive
and leading experts, sharing their views and ideas to address current issues facing the industry

### Exhibition

- A major attraction, showcasing the latest technology and best practices over wide range of disciplines and services
- Over 100 exhibitors, consists of energy companies, service companies, contractors, consultants, government organization, media and professional organizations

### Gala Dinner & Cocktail

A perfect time to re-establish networking in a more relaxed and informal atmosphere

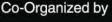


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### Foreword from the IPA Board



Sammy Hamzah Vice President of IPA EPHINDO

Dear IPA Members...

First of all, on behalf of the IPA Board of Directors allow me to wish you Happy New Year 2011. May this New Year bring you bright hopes, new success and many new reasons to be grateful.

This 3<sup>rd</sup> Edition of IPA newsletter will summarize IPA activities during the last semester of 2010 with a special section on the Professional Division, provide a Company Profile on ConocoPhillips and a general overview of the CSR programs of Vico Indonesia.

As you know, the 2010 AGM took place at the Dharmawangsa Hotel on December 15, 2010. At the AGM, IPA President highlighted in his Report how the year 2010 was for the oil and gas sector with all the

industry challenges that needed to be addressed by the Government and how it was for the IPA with focus on the IPA members survey, the increased capability of the IPA secretariat, the successful 34th IPA Convention and Exhibition, and the increased interface with the Government and BPMIGAS. On this occasion, I would like to thank all those who were actively involved in IPA activities in 2010 for their tremendous work, collaboration and support.

We will mark this year with the 35th Annual IPA Convention & Exhibition 2011 that soon to be held in May 18-20, 2011 at the Jakarta Convention Center. This year Convention and Exhibition will hold a theme of "Indonesia Energy: Growth, Security and Sustainability." Just like everybody wishes in this country including the IPA that Indonesia Energy will always be growing, secure and sustain to fulfil Indonesia's energy needs. Thus, I invite all the IPA members to participate in this upcoming event to share knowledge, opinion and thoughts to reach our mutual objective which is to fully realize Indonesia's hydrocarbon potential for the benefit of all stakeholders.

I wish you an informative and enjoyable reading of this newsletter and see you at the  $35^{\rm th}$  IPA Convention and Exhibition 2011!

Sammy Hamzah Vice President of IPA EPHINDO



### The 39th IPA Annual General Meeting



At the end of each year, the IPA holds its Annual General Meeting (AGM) which aims to report IPA current year's achievement and to set next year objectives.

This year, the 39<sup>th</sup> IPA AGM was held on December 15, 2010 at The Dharmawangsa Hotel. The AGM agenda this year was slightly different from the previous years as the meeting started with the Committees' Reports, the Financial Report, and ended with the President's Report and Concluding Remarks. By doing so, the President could comment on the Committees activities and give further explanations on the Financial Report.

The event was attended by around 120 representatives of the IPA Company and Associate Members. This year, 6 IPA Committees presented their report before the AGM.

The Regulatory Affairs Committee was busy this year as regulatory uncertainties within the industry increased due to newly implemented or planned Government Regulations such as Cost Recovery, Cabotage, the Bilingual PSC, Environmental Law, Revision to the Oil and Gas Law etc. In its 2011 objectives, the Regulatory Affairs Committee will continue to perform an active advocacy role in educating key stakeholders with respect to the IPA's key regulatory issues and continue to support the Board and other Committees in responding to prospective and new laws and regulations including proposed amendments to existing laws and regulations.

Other committees were also busy with their respective issues, program and activities which were conducted in 2010. All IPA Committees are setting their respective

goal to improve the performance of this industry for the benefit of all stakeholders.

In its report and concluding remarks, the IPA President Ron Aston conveyed the result of member survey and brainstorm session, the increasing IPA secretariat capability and the 34<sup>th</sup> IPA Convention and Exhibition 2010, the increased IPA interface with the Government, formalizing dialogue with BPMIGAS and constantly focuses on improving the Indonesia investment climate.

In 2011 the IPA will continue to expand the capability of its secretariat, to maximize the input of the IPA committees, to achieve greater participation from associate members to give the industry a stronger voice, to continue to be industry's principal voice in the dialogue with Government and become a true "Partner of Choice" and to manage the 35th IPA Convention and Exhibition with the theme: "Indonesia Energy: Growth, Security and Sustainability" on May 18-20, 2011 at the Jakarta Convention Center.

On this occasion, the IPA President Ron Aston handed over a token of appreciation to Hirohisa Ota, IPA BOD member from INPEX since 2007 who is leaving to Japan for his next assignment. Mr. Ota will be replaced by Mr. Shunichiro Sugaya. Farewell and Good Luck to Mr. Ota for his future endeavour and thank you for your contribution to the Indonesian Petroleum Association!



Mr. Ron Aston (left) and Mr. Hirohisa Ota (right)

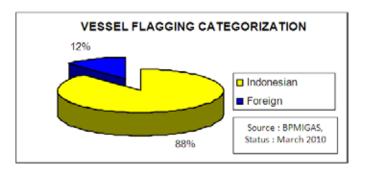


### **IPA VIEW**

# Implications of the Cabotage Law on Oil and Gas Activities

In accordance with Presidential Instruction No. 5, 2005 concerning empowerment of the shipping industry and Law No. 17, 2008 on shipping, the Indonesian Government has been gradually implementing the cabotage principle which will require all commercial vessels operating in Indonesian waters to fly the Indonesian Flag i.e. to operate under Indonesian law and regulations. The final phase of its implementation will come into effect on 7th May 2011, which also requires oil and gas companies to use only Indonesian-flagged vessels.

Each year the upstream oil and gas industry uses approximately 600 vessels to support its exploration and production activities. The majority of these vessels are available domestically with Indonesian flags. However, some very specialized vessels such as drillships, drilling rigs, seismic vessels...etc are not available in Indonesia, are rarely available in the region and are in limited supply globally.



The specific vessels needed to support oil and gas exploration and production activities are as follows:

- Seismic & survey vessels (2D/3D/4D seismic vessel, geophysical, geotechnical)
- Drilling Rigs (jack up rig, semi submersible rig, tender assist rig/barge, deep water drill ship, swampbarge rig, dll)
- Drilling Rig Support Vessels (Drilling Support Vessel, Anchor Handling Tug Supply Vessel→6000 BHP (AHTSV), Platform Supply Vessel (PSV), Multi Service/Well Intervention Vessel (MSV), Anchor Suction Vessel (ASV), well services vessels/barges, Fast Multi Purpose/Crew Vessel (FMPV), Rapid Intervention Vessel (RIV))
- Construction/Installation/Inspection (EPCI) vesselsbarges (main work barge, pipe laying /cable laying/

umbilical laying/ flexible riser laying vessel, derrick/ lifting barge, trenching barge, dredging barge, accommodation barge/jack up/vessel, launching barge and floatover barge, heavy lift vessel, diving support vessel (DSV))

- Storage/Production Tankers (FSO, FPSO, FSRU, FPU and LNG/LPG tanker)
- Dynamic Positioning Vessels (DP1, DP2, DP3) supporting operations
- Other specialized supporting oil and gas vessels

The majority of these specialized vessels are high-tech, expensive and very specific to meet the requirements of oil & gas operation activities, they are also generally only required for short term contracts.

Without these specific vessels, there can be no oil and gas exploration and production activities in Indonesian waters, which will result in a loss of production and investment, both in exploration and development, and may jeopardise the ability of the PSC operators to fulfil their commitments.

Based on the data from INSA (Indonesian National Shipowners Association), AGCI (Association of Geophysical Contractors of Indonesia - for seismic vessels), APMI (Indonesian Drilling Contractors Associations - for Rigs) and GAPENRI (Assoc. of Fabrication/Installation Contractors- for Engineering, Procurement, Construction and Installation -EPCI support vessels) and the market assessments conducted by the PSC operators through open tender processes, currently there is a limited number of these specific Indonesian-flag vessels available to support national oil and gas activities.

The oil and gas industry is concerned that the domestic shipping companies would not be able to meet the industry needs for such high-tech and expensive vessels as it would not be economic for Indonesian shipping companies to buy them. For example, offshore drilling rigs, seismic ships and specialized construction and lift barges are vessels that are typically used in an individual country location only for short time periods (3-6 months) and are otherwise contracted to companies around the world.

The repeated failed tenders conducted by the oil and gas companies to obtain these specific Indonesian-flagged vessels are also a confirmation that the domestic shipping industry is not yet ready to provide these specific vessels.

At present, no foreign owners of deepwater drilling rigs, specialized seismic 2D or 3D vessels and specialized



construction and lift barges are willing to consider registering their vessels under the Indonesian flag.

Without these specialized vessels, there will be no oil and gas exploration in the new deepwater frontier areas and no oil and gas production and development activities

"The Indonesian Petroleum Association is supportive of the intention of the law to promote the domestic shipping industry," said the IPA President, Ron Aston. "however, we are concerned that the substance of the law fails to recognize the uniqueness and nature of oil and gas operations," he further elaborated.

As an example, in developing Indonesia's first deepwater project in the West Seno Block, Chevron the operator is having difficulty to find the specified deepwater rig as none exist in Indonesia.

"With the implementation of the Cabotage Law, it becomes a big issue for the offshore oil and gas industry as there are no Indonesian-flagged deepwater drilling rig is available," said Steve Green, President of Chevron Indonesia. "So we definitely need the resolution of this problem as soon as possible," he further commented.

Chevron is not the only case of the oil and gas industry's urgent need to have dispensation from this Cabotage Law in order to continue their exploration and production activities to meet their commitments to Indonesia for the benefit of this country and its people. The Makassar Straits Exploration Consortium ("MSEC") which comprises six companies (Marathon Indonesia, Anadarko, ConocoPhillips, ENI, Statoil and Talisman) exploring the deepwater Makassar Straits region is also facing the same difficulty. Currently they are in the process of conducting a deepwater exploration drilling program using the foreign-flagged vessel dynamically-positioned drillship GSF Explorer belonging to Transocean. "When the final implementation of the Cabotage Law comes into force on 7th May 2011, this foreign-flagged vessel needs to obtain the dispensation otherwise they will have no choice but to stop their operations which will drastically impact the exploration and production work programmes of the PSC operators," said John Bates, President & General Manager Marathon International Petroleum Indonesia.

ConocoPhillips is also greatly affected by the implementation of the Cabotage Law as the continuation of its four drilling campaigns, three new field developments, three exploration campaigns and two production operations (LPG FSO and oil FSO) are still waiting on the resolution of this issue.

"Indonesia's exploration, production and development activities need the assistance of high technology marine equipments which are currently only available in the global market with foreign flags to assist in meeting Indonesia's targets of exploration and production. This is common in most countries that have high technology needs for drilling, production and construction needs," explained Jim Taylor, President & General Manager ConocoPhillips Indonesia.

The situation is considered as being extremely serious by the industry and PSC operators and if it is not resolved quickly and effectively will have serious long-term repercussions in terms of both the level of industry activity and production of oil and gas in Indonesia.

The suspension of operations of the PSC operators will clearly have an impact for Indonesia in terms of a loss of production and loss of investment for both exploration and development. The loss of production and investment opportunities from just the four biggest PSC operators in Indonesia namely Chevron, ConocoPhillips, Total E&P Indonesie and ExxonMobil can be estimated as follows:

### Potential Production Loss: 200 MMB0E Potential Investment Loss: US\$ 13 billion

The IPA believes that maintaining investment in the offshore oil & gas with the use of these specialized vessels will directly create opportunities for Indonesian-flagged support vessels and the domestic shipping industry in general to participate in future investment.

In view of the potential loss of oil and gas production which will clearly have a substantial impact on the revenues of the Government of Indonesia, the IPA urgently appeals to the Government of Indonesia and the DPR RI to support the amendment of Law No. 17/2008 which will allow all the PSC operators to continue their operations for the benefit of all stakeholders and the people of Indonesia and the IPA remain keen to continue working with government bodies and other associations to help resolve the issue.



Semi-submersible Rig



3<sup>rd</sup> Edition

# Commitee Highlights (June - Dec, 2010)

### Communications Committee

- Beginning fourth quarter 2010 the committee started to set two main focuses i.e. in the area of:
  - 1. Stakeholder Relations and Issue Management
  - 2. Communications and Media Relations.
- A positive role has been initiated by the Communication Committee towards the later part of the year through building synergies with other IPA Committees such as SCM and RAC. The significant collaboration among these committees has been demonstrated through the advocacy process of the Cabotage issue.

### Regulatory Affairs Committee

- Worked with the F&T Committee to formulate IPA's concerns and communicate IPA's feedback to the Government on draft GR on Cost Recovery and Income Tax and on Import Exemption matters
- Formulated IPA's concerns on other proposed and new regulations such as Minister Regulation No. 6/2010 on Guidelines on Production Increase and PTK 033 on PIS of Production Facility.
- Assist Supply Chain Management Improvement Committee at all levels of consultation on Cabotage matter and participated in the workshops and meetings associated with the generation of the academic paper.
- Formed a subcommittee to review draft of a bilingual Production Sharing Contract to meet MIGAS request for feedback
- Overall support to the IPA Board and IPA committees in responding to prospective and new laws and regulations including proposed amendments to existing laws and regulations.

### Finance & Tax Committee

- Monitored new developments in the industry's finance and tax affairs and actively discussed with BPMIGAS and DG of Taxes for improvements to industry's finance and tax implementation procedures. Regularly shared its progress and developments to the IPA Board and key finance people in the PSC's.
- Formed a joint effort with RAC to provide input to the Government on draft GR on Cost Recovery and Income Tax and on improvements to the WP & Budget process

- Obtained a resolution on tax issues with DG of Taxes, with support of BPMIGAS and Fiscal Policy Board on the implementation of PMK 73/2010 (revision of PMK 11/2005) regarding timing for VAT collection by VAT collector and on Implementation on Tax Borne by the Government on Head Office & Affiliated Offices Charges
- In collaboration with IADC (International Association Drilling Contractors) and BPMIGAS, met the Tax Office to push back recent tax office proposal to impose new taxation on drilling activities (WHT Art. 22 and Art. 23) which was never imposed before and would be detrimental to investors
- Prepared Issues Briefing Paper for the meeting with Finance Minister on 20th July 2010

# Human Resources Committee and University Assistant Sub-committee

### Human Resources Committee

- Provided inputs to BPMIGAS for development of Implementation Guideline related to the extension of retirement age from 56 to 58 years.
- Assisted BPMIGAS by participating in the task force to design and develop the program for National Capability Building related to competency acceleration of core disciplines in Oil & Gas Industry such as Petrotechnical.

### University Assistant Sub-committee

 Continued support the University students with one day course, technical journals and publications related to G&G and Engineering.

### **Data Management Committee**

- Resolved the data submission procedure to PUSDATIN.
  - Data that funded by AFE should be submitted to BPMIGAS.
  - Data that not funded by AFE should be submitted to MIGAS.
- Start engagement with Patra Nusa Data on Data Management issue.
  - On data license
  - Disaster Recovery Plan



### **Environment and Safety Committee**

- Facilitating discussion and communications between Ditjen Migas, State Ministry for the Environment (KNLH) and BPMIGAS with regards to the implementation of the most-debated new Protection Act and Environmental Management (Law No. 32/2009) which took effect on October 3, 2009.
- The last meeting on 21 April 2010 has generated an agreement to provide PSCs and other business entities a transitional period to enable them to adhere to stipulation on environmental quality standard.
- KNLH and IPA ESC also agreed to continue in conducting periodic communication, giving feedback and providing regulatory proposals which will be further reviewed by KNLH.
- IPA ESC facilitating development of Emission Calculation Guideline for Indonesian Oil and Gas Industry to support the implementation of New Environmental Law.
- IPA ESC also "plan" to facilitate development of Environmental Management and Monitoring Effort Guideline (UKL-UPL) to simplify the UKL-UPL process in Indonesian Oil and Gas Industry. This is an expectation form KNLH office, as part of capacity building to local.

# Supply Chain Management Improvement Committee

- New Minister of Industry Decree No.102/2009 about Local Content.
  - Discussion on this new decree which is not yet accommodated in PTK-007.
  - BPMIGAS has issued a letter on 21 June 2010 informing that this new decree now becomes part of procurement regulation for PSCs.
- New Minister of Finance Decree No.165/2010 about Assets Management of PSC.
  - Workshop organized by BPMIGAS done in Bandung in December 2009.
  - The new Decree No.165/2010 to replace the previous one No.135/2009 was issued on 7 September 2010.
  - A new stipulation in this decree is that the approval for engine exchange activity will be needed up to BPMIGAS level and just needs to report to Minister of Finance and Minister of Energy and Mineral Resources.
- Monitoring of Local Content achievement.
  - This requirement is included in PTK-007 Rev1.
  - Discussion about its implementation.
  - Some PSCs had a contract with 3rd party to do this Local Content monitoring.

- Asset Management and Customs Affairs guidelines from BPMIGAS.
  - BPMIGAS has issued a new guideline for Assets Management (PTK-007 Book Three) and Customs Affairs (PTK-007 Book Four).
  - Socialization has been done in February 2010.
- "Cabotage" issue.
  - Follow up of various activities with BPMIGAS, Migas and Directorate General of Sea Transportation.
  - Participation in various meetings with Authorities (BPMIGAS, Migas, Ministry of Transportation, Directorate of Sea Transportation), INSA, etc.
  - Participation in preparing IPA letter to Minister of Transportation (issued on 4th August 2010).
- MoU between BPMIGAS and PT.Garuda Indonesia.
  - Discussion of the implementation of this MoU for PSCs.
- BPMIGAS has a plan to issue the new revision of Procurement Guidelines (PTK-007 Rev 2).
  - Socialization has been done on 25th May 2010.
    - There are some concerns from PSCs, mainly on:

      » The threshold value for Tender Plan and

      Recommendation of Tender Winner that
    - Recommendation of Tender Winner that needs BPMIGAS approval (2 or 5 MUSD).
    - » Procurement process related to local content.
    - » Pre-qualification procedure.
  - The new guideline has not been issued yet when this report is made.

### Gas, LNG and CBM Committee

- Full Committee
  - The full committee for Gas & LNG has been inactive for several years
  - Following a Board decision in July 2010, the Gas and LNG committee has been reactivated with a mandate to address a number of gas and LNG issues now facing the industry.
- CBM Subcommittee
  - The CBM Subcommittee has been meeting regularly during 2010 as a forum to discuss evolving Indonesia CBM issues
  - IPA input to GoI on CBM has been limited to joint letters with KADIN/IGA etc.
  - Prepared IPA recomendations to Migas on Migas intention to launch a new CBM Implementing Guidelines.





# Company Profile



### ConocoPhillips Worldwide Overview

ConocoPhillips is the third-largest integrated energy company in the United States, based on market capitalization, as well as proved reserves and production of oil and natural gas, and the second-largest refiner in the United States. Worldwide, of non government-controlled companies, ConocoPhillips is the seventh-largest holder of proved reserves and the fourth-largest refiner\*. Headquartered in Houston, Texas, ConocoPhillips operates in more than 30 countries around the world. \*{data as of 2009}

ConocoPhillips has four core activities: petroleum exploration and production; petroleum refining, marketing, supply and transportation; natural gas gathering, processing and marketing, including a 50 percent interest in DCP Midstream, LLC.; and chemicals and plastics production and distribution through a 50 percent interest in Chevron Phillips Chemical Co. LLC.

### Indonesia

ConocoPhillips has had a presence in Indonesia for more than 40 years. ConocoPhillips operates seven PSCs comprising of 54,307 square kilometers. Four of the blocks are located offshore, the South Natuna Sea Block B PSC, the Amborip VI PSC, the Kuma PSC, and the Arafura Sea PSC. The three onshore PSCs are the Corridor Block PSC and the South Jambi 'B' PSC, both in South Sumatra, as well as the Warim PSC in Papua.

### South Natuna Sea Block B PSC

Operator: ConocoPhillips (40.0%)

Co-venturers: Inpex Natuna, Ltd. (35.0%), Chevron South

Natuna B Inc. (25.0%)

The Block B PSC was awarded in 1968, and first production came on line in 1979. The PSC extension was granted in 1998, and it is currently scheduled to expire in 2028. Block B is located in approximately 300 feet of water.

The Block B PSC has one producing mature oil field and 16 gas fields in various phases of development, seven of which also have recoverable oil or condensate volumes. In late 2004, oil production commenced from the Belanak field through a floating production, storage and offloading vessel (FPSO). Natural gas sales commenced from the Belanak field in October 2005. A liquefied propane and butane gas floating storage and offloading vessel (LPG FSO) was installed in April 2007 and receives LPG from the FPSO. LPG is produced from the Belanak, as well as, Hiu and Kerisi fields. Elsewhere in Block B, the Hiu field successfully delivered first gas production in December 2006, and first oil production from the Kerisi field occurred in December 2007. Development of the North Belut field is under way with first production scheduled for August 2009. Gas production from the North Belut field will be processed at the Belanak facilities where the LPG will be extracted.







### Sumatra Corridor Block PSC

Operator:ConocoPhillips(54.0%)

Co-venturers: Talisman (Corridor) Ltd. (36.0%), PT.

Pertamina Hulu Energi Corridor (10.0%)

The Corridor Block PSC is located in South Sumatra and covers a contract area of 2,622 square kilometers. The PSC was awarded in 1983 and is scheduled to expire in 2023 under the current PSC extension. The block consists of six oil fields and six natural gas fields. The principal oil-producing fields are Puyuh, Supat and Rawa. The principal gas fields are Suban, Sumpal, Dayung and Gelam.

Gas production began in 1998, with the development of several fields and a central gas plant to supply the Duri steam-flood in central Sumatra. The Sumpal field was the second development, and began supplying gas to a buyer in Singapore in July 2003. The first development phase of the Suban field commenced gas production in 2002, increasing sales to the Duri steamflood. ConocoPhillips completed the second phase of the Suban field development in December 2006. This project included the expansion of the existing gas plant and pipelines along with additional wells.

### South Jambi 'B' PSC

Operator:ConocoPhillips(45.0%)

Co-venturers: PetroChinaInternational Jambi B Ltd. (30.0%), PT. Pertamina Hulu Energi South Jambi B (25.0%)

The South Jambi 'B' PSC is located in South Sumatra and covers a contract area of 1,539 square kilometers. The PSC was awarded in 1990 and will expire in 2020. There are six gas fields, with the Teluk Rendah and Geger Kalong fields currently in production. The remaining gas discoveries are being evaluated. Net production in 2008 was 4 MMCFD of natural gas.

### TransAsia Pipeline Co. Pvt. Ltd.

Through its 35 percent interest in TransAsia Pipeline Co. Pvt. Ltd., ConocoPhillips holds an indirect 14 percent interest in PT. Transportasi Gas Indonesia (TGI), Indonesia's largest gas transmission pipeline company. TGI owns and operates 1,006 kilometers of onshore and offshore natural gas pipelines that deliver ConocoPhillips' South Sumatra natural gas to market and include the Grissik-to-Duri and Grissik-to-Singapore pipelines.

### (data as of 2009)





### **CSR**

### VICO Indonesia : Developing Small & Medium-Sized Enterprises (SMEs) to become Autonomous Enterprises

The vision of VICO Indonesia CSR Program is to build strong and positive relationships with its stakeholders and to assist the government in building prosperous and independent community. As a company with strong commitment to develop the community surrounding its operation areas, VICO Indonesia has carried out community-based CSR programs which have directly impacted to the community daily life through development of infrastructure, education, health, environment, and economy. The last sector mentioned is the major concern of VICO, as to build a prosperous and independent community will only be achieved through empowering their economy.

VICO's economic empowerment programs are focused on developing the Small & Medium-Sized Enterprises (SMEs). VICO believe that this program will grow entrepreneurship and change the community's mindset to be more autonomous and independent. VICO has developed various kinds of SMEs with the variety of products such as chips, shrimp crackers, coffee, VCO (Virgin Coconut Oil), handicraft, and service such as motorcycle workshop.

VICO SMEs development program is divided into three phases: technical development, skill development, and self-autonomous. In technical development phase, VICO will focus on increasing SMEs production capacity through counseling, production facilities assistance, and production technique to improve quality and quantity of goods/service. If the SME's production or income has increased, it will continue to the skill development phase. This phase emphasizes on capacity and skill improvement of SMEs through management and entrepreneurship trainings. This training aims to deliver an understanding on how to manage their SMEs effectively and efficiently. Besides that, they are expected to acquire a competitive mentality to be able to compete in local and regional market.

In self-autonomous phase, VICO will assist the SMEs to increase their product competitiveness in order to be accepted in the market, such as product branding and packaging. Afterwards, marketing and promoting of the products will be arranged by engaging SMEs in several exhibitions, like ERAU Expo, local and regional SMEs exhibition.

When SME passed through all the three phases, they are now ready to be an autonomous SME. These SMEs are now able to create job opportunities to its surrounding. The examples of autonomous SMEs are UKM Sahabat owned by Ibu Pujiati and Bengkel Bambang as shown in the pictures.



VICO started to help develop Ibu Pujiati since 2003. At the beginning, Ibu Pujiati was given trainings on how to make shrimp crackers and assistance on production facilities. In 2005, Ibu Pujiati started to market her shrimp crackers labeled "Kerupuk Udang Sahabat" and opened small shop in front of her house with capital assistance from VICO.

Currently, she is able to produce 45 kg shrimp crackers weekly. Beside that, she also produces "amplang" (fish cracker) and receives catering or cakes orders. To fulfill the demand, Ibu Pujiati hired her three neighbors to help her. In order to increase her product competitiveness, VICO helped her to gain "halal" certification from MUI. It made her products more acceptable in the market. Up to now, her market area includes Muara Jawa Subdistrict, Tenggarong, Samarinda and Balikpapan. She also markets her products in restaurants and stores.



Due to her effort, Ibu Pujiati is now able to earn 3 millions Rupiah per month. She can afford both of her children's education and also help her husband to fulfill their daily needs.



The other autonomous SME is Bengkel Bambang (Bambang Workshop). At first, Bambang was only a mechanic with a low income. He had a dream to have his own workshop. Then, VICO stepped in and started to help Bambang to achieve his dream. Since 2003, VICO has given technical and skill development assistances to him. VICO also helped him to build his own motorcycle workshop named Bengkel Bambang. Not in a long time, Bengkel Bambang has showed positive development. The number of customers is increased, and Bambang could not handle them by himself and decided to hire mechanic. Currently, Bambang is able to hire three mechanics with 12 millions Rupiah revenue and 3 millions Rupiah net profit. Besides providing motorcycle service and repair, he also sells spare parts. Now, he is trying to improve facilities and services provided in his workshop. Hard work and continuing efforts of VICO in developing SMEs has gained several awards from Government of Indonesia. In 2006, VICO received UPAKARTI award from President of Indonesia, Susilo Bambang Yudhoyono for its role in developing SMEs around its operational area. From 15 winners of UPAKARTI, VICO is the first oil and gas company to receive this award for pioneering category.

### **News Flash**

**IPA Care for Humanity** 



On Tuesday, December 14, 2010 The Indonesian Petroleum Association has donated the sum of USD 25,000 to the people affected by the Merapi Volcanic Eruption in Yogyakarta, Wasior flash flooding in West Papua and Tsunami in Mentawai Island, West Sumatera through the Indonesian Red Cross (PMI). This financial aid was presented by IPA President Ron Aston to Chairman of PMI Jusuf Kalla.

In his speech Ron Aston mentioned that aside from this donation from the IPA, he was certain that most of the oil and gas companies operating in Indonesia which are mostly members of the IPA have also given their respective financial aid as an emergency response to the victims of natural disasters that hit Indonesia recently. "The IPA has acknowledged PMI proven track records in handling both disaster reliefs, as well as rehabilitations project. Thus, we would kindly request the PMI to channel this fund for rehabilitation programs for the people in need, "said Ron Aston.

In his thanks Pak Jusuf Kalla said that the PMI is really honoured to be entrusted with this donation that will help rebuild the disaster-hit areas and its community.

Inquiries, Responses and Contributions to our Newsletter are welcome at inquiries@ipa.or.id



# SPECIAL SECTION: PROFESSIONAL DIVISION

### Editor's Note



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### "I am making a list and checking it twice"

I recently was listening to a Christmas song about a mystical Christmas professional named Santa Claus. His expertise was related to giving children gifts one holiday a year, all in a single night. In order, to achieve his goals he had to generate a plan and then carefully execute the plan which of course culminated with children around the world shrieking out with joy over the new toys found under their tree in the morning.

Not being a professional Santa (even though I have the form - fat and jolly). I started to think about the tremendous effort that it would take to achieve such a lofty goal. Then I related it our area of expertise: finding and exploiting hydrocarbon resources. There are significant similarities. We are involved in tasks that require years of planning followed by execution. We must develop schedules with measureable milestones to judge our successes or failures. We also have to understand how to adjust the plan and where acceleration can occur without negatively impacting the projects. Finally we need to understand risks associated with the schedule. Our projects like the mystical figure Santa require assistance. In many stories Santa uses elves. These elves are highly trained and specialized. Like the Santa's Elves our projects require teams of

highly trained and specialized professionals from multiple disciplines. Each discipline contains creative professional all working to a common goal. Each group fits into a time line with prioritized and sequenced tasks. Our goals are achieved by checking that list twice and sometimes thrice.

The IPA is provides a number of services each year. These services require goals to be set and are accomplished by volunteers who rise beyond the call of duty and stand out from the crowd. The volunteers are willing to serve their peers. Think about it for a moment - these individuals volunteer to go beyond the call of duty to serve you. When was the last time you referenced an IPA talk or paper. Maybe you were looking for information on the number of Coal Bed Methane wells drilled in the last year or were wondering about new breaking technologies other operators are using in Indonesia. our professional organization and it is fueled by us the working professionals. Each year the IPA sets goals to complete projects such as the annual convention. Hundreds of volunteers are required. Looking forward to the New Year we encourage each of you to put on your list "volunteer to serve" or in the mystical land of the North Pole be an elf or better Santa Claus. This is a gift that will always keep giving.



### Professional Division Chairman's Corner



Ron Noble Chairman IPA Professional Division Niko Resources Ltd. rnoble [at] nikoindonesia.com

Professional Division Members and Friends,

As the year 2010 draws to a close, we can look back on a very eventful year for the petroleum industry. There have been two major "spill" episodes that have captured global attention. One in the Gulf of Mexico (Macondo) and the other in the Timor Sea (Montara). There may be others, of lesser magnitude, that did not receive the same level of public attention. This really brings into focus the importance of health, safety and the environment (HSE). All companies state that this is their primary objective, but putting words into practice is not always easy. We work in a complex and technologically challenging business. Let's make it our objective that no one gets hurt, and the environment is not harmed by oil industry operations in 2011.

The IPA held their Annual General Meeting on December 15. The Association has been active on a number of important initiatives, all of which are designed to promote a stronger partnership between the Government of Indonesia and the companies that do business here. Members should visit the IPA website to read more about how the Association is representing their interests on a number of important issues (www.ipa.or.id).

From a personal standpoint, I am very optimistic about the opportunities that lie ahead in the Indonesian E&P business. In the next two to three years, there will be a number of exciting wildcat wells that will be drilled in remote and frontier areas. Hopefully this will lead to exploration successes and the opening of new production trends. It is essential that discoveries are made to keep the industry strong and attractive to new and existing investors.

On behalf of the Professional Division, best wishes and great successes to you all in 2011.

### **IPA Upcoming Events**

### THE 35th ANNUAL IPA CONVENTION AND EXHIBITION

The 35<sup>th</sup> IPA CONVENTION & EXHIBITION will be held on **18-20 May 2011** at the Jakarta Convention Center, Jakarta, Indonesia.

We invite you to participate on this prestigious event which was considered as the biggest annual regional event in the oil and gas industry. The Annual IPA Convention & Exhibition provides a platform for the Government and the industry to address opportunities and future challenges in the energy sector and to share knowledge between oil and gas practitioners. It also provides an excellent opportunity to do networking, as it involves professionals working in all facet of business in the oil and gas industry.

### **FIELD TRIPS**

- **1. 21-24 February 2011**, Cepu Field Trip for non-geoscientist personnel
- 2. 2-6 April 2011, Mahakam Delta field trip

For futher info, please visit our website:

www.ipa.or.id



### Let's Do IPA Lunch!

Are you challenged to keep up with current topics in E&P? Or perhaps you want to meet and network with others working in the Indonesia O&G industry? In any case then you should be attending the IPA Luncheon Talk sessions where you can address both these items.

The IPA Luncheon Talk Committee was pleased once again to have excellent talks presented at our last two luncheons. Mr. Paul van der Aa of PricewaterhouseCoopers Indonesia presented a very interesting talk titled "The Pressure is on: Investor Survey of the Indonesia Oil and Gas Industry" to a full and attentive audience at the Four Seasons Hotel in Jakarta on Wednesday, July 28, 2010. Mr. Peter J. Cockroft delivered another informative talk titled "Unconventional Gas – Confessions of a Cynic" at the Le Meridien Hotel Jakarta on Wednesday, October 27, 2010.

# The Pressure is on: Investor Survey of the Indonesia Oil and Gas Industry

Around 90 participants from the oil and gas industry attended the event where the results of PricewaterhouseCoopers 2010 Oil and Gas Investor Survey were revealed. This is the fourth edition of the survey, with others having been conducted in 2008, 2005 and 2002.

A survey questionnaire was sent to and responses were received from the senior management of 76 companies operating in the Indonesia oil and gas industry. The primary items covered by the survey included feedback on supply and demand for oil and gas, employment, capital expenditures, challenges facing the industry, competitiveness of the Indonesia O&G industry and recent industry developments. The purpose of the survey is to inform the public and private sectors in the country and abroad about Indonesia's upstream petroleum industry and also to highlight some of the challenges facing the oil and gas industry in attracting investment and realizing its full potential.

Paul began his talk by summarizing some key points regarding the country's oil and gas sector. On the negative side production has declined over the past decade and Indonesia became a net importer of oil in 2004. The country is no longer a member of OPEC. But positives include the fact that the oil and gas sector is a big contributor to state revenues and it is still felt that there is very good potential for large discoveries to be

made in the country. CBM and geothermal energy offer new opportunities for investors and there is still a significant amount of stranded gas available for commercialization.



Results from this years survey indicate that Indonesia is still considered as an attractive country for 0&G investment, although survey participants seem to be less optimistic about the future of the industry here than in past surveys. The top five issues identified from the survey have remained more or less the same for a number of years. These issues are:

- Interference from government agencies, such as the tax authorities
- Uncertainty over cost recovery and BPMigas / BPKP audit findings
- 3. Contract sanctity
- 4. Corruption, collusion and nepotism
- 5. Confusion over the implementation of regulations

It is felt by the survey respondents that further regulation and industry supervision does not necessarily enhance the environment for upstream investment and employment, help in the introduction of sophisticated technology nor will it lead to increased production and energy security for Indonesia. In general survey participants said that they do not expect to see any significant improvement in the next five years with regards to these top issues since there are many challenges and work required with government and regulators to make positive changes.

In order to remain competitive, those that participated in the survey feel that it is critical that the investment climate in Indonesia continues to improve. Hence, the statement in the talk title that "the pressure is on" to make significant and lasting improvements.



Please click here for the complete pdf format presentation.

### 'Unconventional Gas - Confessions of a Cynic"

At this event, Peter Cockroft, a well known international oil industry executive, shared an insightful comparison of Indonesia unconventional gas (mainly CBM and shale gas) with other similar geologic provinces in Asia, Australia, Europe and North America. He also described the US unconventional gas success story and its key success factors in the hope that it can be reproduced elsewhere.



Coalbed methane accounts for approximately 7.5% of U.S. natural gas production. Recent U.S. estimates indicate more than 700 trillion cubic feet of coalbed methane gas in place with over 100 trillion cubic feet potentially recoverable. Shale gas is an established resource in the USA, Canada and Europe, with shale gas production currently accounting for approximately 8% of total U.S. gas production. Some studies suggest that this percentage may rise to approximately 70% by 2017, thus precluding the need for LNG imports. In any case, both coalbed gas and shale gas are becoming an increasingly important gas source in a number of countries around the world. The government of Indonesia has already begun offering CBM PSC's and they have indicated that they will begin to open tenders for shale gas development in the near future.

Peter began his talk by giving an overview of unconventional resources including reservoir properties and comparing and contrasting these with conventional resource accumulations. He then discussed the success story in the United States which is both the largest gas

producer in the world and the largest unconventional gas producer.

One of the main themes of Peter's talk was whether the U.S. unconventional gas success story can be reproduced elsewhere in the world. The potential of unconventional resources is still poorly mapped and quantified in most global areas. According to Peter, the keys to success in unlocking unconventional resource potential include:

- Identification of the location and potential of the best areas
- 2. Availability of rigs and engineers
- 3. Acceptance by local communities and landowners
- 4. Resolution of environmental issues, such as produced water management
- 5. A supportive pricing, fiscal and regulatory framework
- 6. The possibility to link projects into existing pipeline infrastructure

Peter concluded by stating that unconventional resources are here to stay and will be a major contributor to global energy demand in the future. The question is, are companies "on board" and ready to move forward or have they "missed the train" and will need to catch up in the years to come.

Click here for the complete pdf format presentation.

Please contact the Luncheon Talks Chairman:



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with suggestions or volunteers for future talks. Topics should be relevant to exploration and production in Indonesia or be of interest to a wide range of disciplines.

See you at the next IPA Luncheon Talk!



# Field Trip



Walter Ziza Fieldtrip Chairman IPA Professional Division Talisman (Asia) Ltd. wziza [at] talisman-energy.com

### IPA Field Trip to Solo – Kuwu – Cepu Area For Non–Geoscientists Personnel August 1-4, 2010



by

H. M. Yohannes P. Koesoemo SDA (Sumber Daya Alam) Consultants Cepu – Indonesia

The North-East Java Basin is an oil basin, discovered in 1893 by BPM. In 2000, PT. Humpuss Patragas discovered the 2nd biggest oil field in Indonesia at Cepu Block (Banyu Urip Field), which is now being operated by ExxonMobil Cepu Ltd. The Sequence Stratigraphy approach can be well applied in this North-East Java Basin. Many significant outcrops, both carbonate and clastic sediments, can easily be seen in this field area. For this reason, North East Java Basin could represent a sort of petroleum geology natural laboratory (Figures 1-5). The purpose of this Field Trip is to introduce geological aspects related to hydrocarbon accumulations in the North-East Java Basin and study some peculiar geological settings.

The tectonic evolution of the region can be studied from Late Cretaceous to Paleogene (tension tectonic regime) and Neogene (compression tectonic regime still active). The total sediment thickness is more than 4500 m, mainly consisting of carbonate and clastic sediments from the Ngimbang Formation (Eocene) to the youngest Lidah Formation.

### PETROLEUM SYSTEM

The source rock is represented by the shale levels of lower Ngimbang Formation, while the hydrocarbon path is identified in a fault zone. The main reservoirs are the clastic carbonate Upper Ngimbang Formation, reefal carbonate of Prupuh Formation, Ngrayong sand, Globigerina sandy marls of Middle Wonocolo, sandy limestone of Ledok Formation, upper Mundu (or Selorejo Formation). Two main trapping mechanisms are recognized in the area: a stratigraphic trap and structural trap based on well developed anticlines. The caprock shale present over each reservoir is considered a good seal rock.

The main reefal carbonates are: Prupuh Formation (Cepu Block, Lapindo Brantas, Sukowati, Mudi, Poleng) of Early Miocene, and the Middle Miocene Ngrayong Formation with quartz sand forming the main shallow reservoir (as in an old oil field of BPM), time.

### CONCLUSION

- 1. Main reservoir is the reefal carbonate of Prupuh. The development of secondary porosity in reefal Prupuh is most likely related to an Early Miocene sea level drop.
- 2. A trangressive system tract controls the deposition of the main clastic reservoir, quartz sand (identified in old oil fields) deposited in a sand bar environment.
- 3. The presence of a number of outcrops, which are easily accessible, make the NE Java Basin a suitable area for field trips and a natural "geological laboratory" where sequence stratigraphic concepts can be applied and compared with 3D seismic interpretation, both offshore and land.



Figure 1. Diorama in Sangiran Museum.





Figure 2. Mud volcano at Bledug, Kuwu. The petroleum system at work here is: source rock is shale of Lower Ngimbang Fm. (Eocene), gas migrated via fault zone, 500 m thick Globigerina sandy marls of middle Wonocolo Fm. as reservoir rock, subsurface of Kradenan anticline as traps, and marls of Mundu Fm. and shale of Lidah Fm. as sealing caprocks.



Figure 3. Beam Pump at Ledok Field. Old Pumping Unit "THOMASON" BPM (1894) at Ledok Field. Still actively operating, with Ngrayong Sand reservoir at 1000 m deep.



Figure 4. Active drilling at N. Kedungtuban #A, 15 km west of Cepu, with planned TD of nearly 3000 m.



Figure 5. Modern Oil Production from Mudi Field. (JOB Pertamina – Petrochina East Java).



# **Drilling Highlights**



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To respect confidentiality, details are minimized unless in the public domain. All information from di international WEB+ and associated data listings. Ongoing wells not included.

### 2010 DRILLING TO DATE (Fig 1)

As of early December 2010 as we go to press, the following is a brief summary of exploration drilling activities so far. Apologies for repeating some of the wells from the previous article in 2010.

### **SUMATRA**

No activity has taken place in 2010 to date in the North Sumatra Basin, but in Central Sumatra, Chevron's Prima 1 in the Rokan PSC resulted in an oil discovery.

In South Sumatra, the basin continues to dominate in terms of drilling activity levels. Bunga Mas International Co has commenced a multi-well drilling campaign in the Bunga Mas PSC, with Bunga Akasia 1 and Bunga Matahari 1 both suspended pending later testing. Bunga Kamboja 1 is the third well in the sequence. As previously reported, CNOOC's second well in the Batanghari PSC, namely Matahari 1, encountered oil and gas shows only, a similar result being reported for Pearl's Cerah 1 in the Tungkal PSC. Also previously reported, PetroChina's continued successful run in the Jabung PSC included discoveries at Panen Utara 1 (gas & condendate) and Sabar Utara 1 (gas). Medco, on the other hand, has been less successful, with dry wells at Makmur 1 in the SSE PSC and Kalisa 1 and Raut 1 in the Rimau PSC. Also in the Rimau PSC, a Basement test at Langkap was drilled and suspended. Again as previously reported, PT Pertamina discovered gas at Ginaya 1, encountered gas shows at Kalalili 1 and confirmed gas and condensate with delineation well Pagar Dewa 6X. PT Pertamina has since successfully drilled Prabumenang 6X (oil & gas). Elsewhere, PT Pertamina/Talisman have

drilled East Mandala 1 in the Ogan Komering JOA, PT Sele Raya encountered oil shows in West Belani Ext 1 and suspended Kemang Utara 1 in the Merangin II PSC and also found oil shows in West Sungai Anggur 1 in the Belida PSC. In the West Air Komering PSC, PT Tiarabumi suspended Sampoerna NE-1. PT Tropik Energi drilled Ario Damar 1 (oil & gas), Sriwijaya 2 (oil & gas), Sriwijaya 3 (gas) and Sriwijaya 4 (dry) in the Pandan PSC. Finally, Star Energy suspended Cerah Sekayu 1 in the Sekayu PSC.

Operators with ongoing wells as we go to press include PT Pertamina (Karang Dewa 2, Manduru 1, Pagar Dewa Selatan 1) and PT Tropik Energi (Ario Damar 2).

### **JAVA**

PT Pertamina has been particularly successful in its onshore West Java drilling in 2010 to date, with completed wells at Akasia Bagus 1 (gas & condensate), Jati Keling 1 (oil & gas) Karang Degan 1 (gas & condensate), Karang Luhur 1 (gas & condensate), Pondok Makmur 3ST (oil & gas), Pondok Makmur 5 (oil & gas), Pondok Makmur 6 (oil & gas shows), Pondok Makmur 7 (oil & gas) and Pondok Mekar 1 (oil & gas shows).

Ongoing wells in West Java include PT Pertamina's Randegan Utara 2.

Onshore East Java, PT Pertamina/PetroChina confirmed oil and gas at Lengowangi 2A in the Tuban JOA. Elsewhere, PT Pertamina discovered gas at North Kedung Tuban 1. On Madura Island, SPE Petroleum drilled Dolang-Dolang 1 (dry) and Dungok 1 (dry), while South Madura Exploration Co. drilled Gigir East 1 (dry).

Still ongoing in East Java are wells being drilled by ExxonMobil (Alas Tua West 1), PT Pertamina (Diponegoro 1), PT Pertamina/PetroChina (NW Lengowangi 1) and SPE Petroleum (Madederop 1).

In the East Java Sea, the "Trident 9" jack-up was used to drill East Lengo 1 (dry) by Pearl in the East Muriah PSC, Liyun 1 (dry) by Pearl in the Bulu PSC and Mojo 1 (dry) by Mitra in the Sibaru PSC.

### **TARAKAN & KUTAI**

Offshore Tarakan, Eni drilled Tulip East 2 (non-commercial gas) in the Bukat PSC using the "Saipem 10000" drillship. Later in the year Anadarko made an oil and gas discovery in the Nunukan PSC with Badik 1ST, drilled using the "West Triton" jack-up.



In the onshore Kutai Basin, PT Pandawa suspended South Karamba 1 in the Wain PSC.

### MAKASSAR STRAIT

On the western side of the Strait, Offshore, in the in the Popodi PSC, Anadarko drilled Pancang 1 (dry) using the "GSF Explorer" drillship. In the Muara Bakau PSC Eni drilled Capung 1 (dry), Jangkrik 2 (gas) and Jangkrik 3 (gas) using the "Saipem 10000." Total confirmed gas at Trekulu 1 in the Southeast Mahakam PSC, drilled using the "Soehanah" jack-up. Salamander made an oil and gas discovery in the Bontang PSC with Angklung 1 using the "Hakuryu V" semi-sub, while Serica drilled Dambus 1ST (non-commercial gas) and Marindan 1 (ongoing) in the Kutai PSC using the "Trident 9." Further south, Pearl drilled NW Ruby 1 (dry) in the Sebuku PSC, drilled using the "Trident 9."

In the east of the Strait, ExxonMobil's last well in the Mandar PSC was unsuccessful, Kris 1ST being drilled

using the "West Aquarius" semi-sub. In the Pasangkayu PSC, Marathon abandoned Romeo 1 for later re-drilling and Bravo 1 is ongoing, these wells being drilled using the "GSF Explorer."

### **SULAWESI**

A single onshore well was drilled by PT Pertamina in the Banggai Basin Senoro-Toili JOA, this being Cendana Pura 2 (dry).

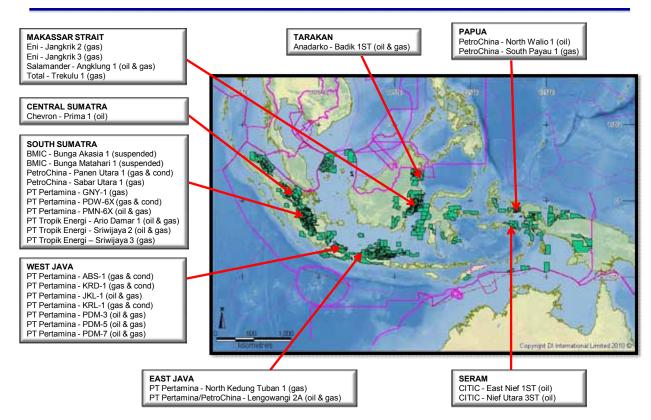
### **MALUKU & PAPUA**

Onshore Seram, CITIC confirmed oil with wells at East Nief 1ST and Nief Utara 3ST in the Seram PSC.

Finally, in Papua, Genting is drilling wildcat Asap 1XST in the Kasuri PSC, while PetroChina discovered oil at North Walio 1 and gas at South Payau 1 in the Kepala Burung PSC. Offshore, ConocoPhillips is drilling Aru 1 using the "Ensco 104" jack-up in the Amborip VI PSC.

# Fig 1: Successes to Date in 2010







### Global E&P Calendar



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## 2011 Asia Pacific Conferences and Exhibitions

Jan 12-14 GeoIndia 2011, Noida www.aeminfo.com.bh/geoindia2011/

Feb 22-24 Drilling Fluids & Cuttings Management Asia 2011 (Forum), Bangkok www.arcmediaglobal.com

Feb-28 LNG Market Fundamentals 2011, Singapore www.cconnection.org

Mar 1-2 LNG Supplies for Asian Markets 2011, Singapore www.cconnection.org

Mar-03 LNG Sales & Purchase Agreements 2011, Singapore www.cconnection.org

Mar 7-8 PGCE 2011, Kuala Lumpur www.pgcem.com

Mar 8-13 Sour Gas Fields: Can they be developed in an economical and sustainable mode? (Forum), Bali www.spe.org

Offshore Convention: Vietnam 2011, Ho Chi Minh City www.neoventurecorp.com

Mar 22-24 Future Gas 2011, Brisbane www.futuregas.com.au

Mar 29-31 6th Annual Offshore Asia Conference & Exhibition, Singapore www.offshoreasiaevent.com

Apr 4-7 SEAPEX Exploration Conference 2011, Singapore www.seapex.org

Apr 10-13 APPEA 2011, Perth www.appea2011.com.au

May 18-20 IPA 2011, Jakarta www.ipa.or.id

Jun 2-3 China Petroleum & Gas Insiders, Singapore www.cconnection.org

Jun 5-7 Asian Oil & Gas Conference (AOGC 2011), Kuala Lumpur www.cconnection.org Jun 9-10 High Tan Crude Conference 2011, Singapore www.cconnection.org

Jun 9-10 New Zealand Oil & Gas Expo (ENEX 2011), New Plymouth www.enex.co.nz

Jul 19-20 Enhanced Oil Recovery Conference, Kuala Lumpur www.spe.org

Sep 20-22 Asia Pacific Oil & Gas Conference and Exhibition, Jakarta www.spe.org

Sep 28-30 16th Asia Oil Week, Singapore www.petro21.com

Nov 15-17 International Petroleum Technology Conference, Bangkok www.spe.org

# 2011 Asia Pacific Training Courses and Workshops

Jan 16-19 Tight Gas Completions, Perth www.spe.org

Jan 16-19 Chemical Flooding - EOR, Penang www.spe.org

Mar 13-16 Carbon Capture and Sequestration (CCS), Adelaide www.spe.orq

Mar 13-17 Managing Naphthenates & Soap Emulsions, Langkawi www.spe.org

Mar 20-23 Assuring Flow from Pore to Process, Langkawi www.spe.org

Overcoming Difficulties in Conventional and Unconventional Gas Development, Sapporo www.spe.org



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ARROW ENERGY INDONESIA change to DART ENERGY

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### **New Representative**

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### NOTE:

In the IPA Professional Division Membership Directory 2010 page 57, Statoil Indonesia Karama AS phone number: (62-21) 2758-8430. The correct phone number should be (62-21) 2758-8400



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