# **Cost Effective CBM Exploration**

25-26 Nov 2010 Jakarta, Indonesia

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# **DAY 1 - 25 Nov 2010, Thursday**

08:00 Registration & Coffee

#### 09:00 Overview

- What is coal seam gas
- History of coal seam gas management
- Where are coal seam gas reservoirs located?
- Indonesian gas market
- Indonesian LNG projects for CBM
- Worldwide CBM Resources

# **CBM Exploration Program Objectives**

- Define the CBM prospectivity of the targeted coals
- Identify the gas composition, gas content, coal thickness, permeability
- Estimate commerciality
- Identify potential CBM targets

# CBM Exploration Program Activities

- Initial G&G study
- Contracting drilling, field and test services
- Operational strategies
- The meet regulatory, statuary and compliance requirements
- Indicative cost estimates to match identified project stages
- Project risk management
- Schedule of activities

### 10:15 CBM Data Evaluation

- Depositional setting and coal distribution
- Tectonic and structural setting
- Coal rank/maceral composition and gas generation

- Gas content and permeability
- Hydrodynamics
- Ash and moisture content
- Gas sorption capacity
- Reservoir conditions
- Burial and thermal history
- 10:30 Discussion followed by Coffee

# 11:00 CBM Exploration Program Management

- Effective drilling program
- Operational plan
- Field services
- Testing services
- · Coordination and synchronisation
- · Monitoring and optimisation

### 12:00 CBM Project Maturity

- First stage: Identification of sweet spots
- Second stage: Seismic, core and stratigraphic wells
- Third stage: Pilot test well and testing
- Fourth stage: Development wells, infrastructure
- 13:00 Discussion followed by Lunch

### 14:30 Critical CBM Data Requirements

- Geological data
- · Wireline logging data
- Gas content and composition data
- Coal quality and reservoir data
- · Permeability data
- 15:30 Discussion followed by Tea

### 16:00 CBM Project Issues

- Drilling issues
- Land owner approvals and ongoing public relations

- CO2 distribution pattern
- Local variations in saturation and gas content
- Permeability test limitations and local variations
- · Coal continuity and development
- Equipment and supplies
- 17:00 Discussion & Sharing from Participants. Close of Day 1

# **DAY 2 - 26 Nov 2010, Friday**

### 08:30 **CBM Project Economics**

- · Cost of drilling and development
- Well spacing
- Good land access
- Effective testing and sampling
- Effective water management plan
- Access to market

### **What Makes a Good CBM Prospect**

- · Cost effective drilling and testing
- Good gas content and composition
- Good permeability
- Thick coal seams

## 10:00 Discussion followed by Coffee

### 11:15 Gas-in-Place Estimation for CBM

- Parameters
- Methodology
- Case studies
- 12:15 Final Discussion & Sharing from Participants
- 12:45 Close of Workshop. Lunch