IADC CRITICAL ISSUES
ASIA PACIFIC
CONFERENCE & EXHIBITION
23-24 NOV 2011 • SHANGRI-LA HOTEL, KUALA LUMPUR

“Preparing for the Next Market Upturn”

Endorsed by

AUSTRALIAN PETROLEUM PRODUCTION & EXPLORATION
ASSOCIATION LIMITED
WEDNESDAY, 23 NOVEMBER 2011

07.30  CONFERENCE REGISTRATION, COFFEE SERVICE & OPEN EXHIBITION

08.30  WELCOMING REMARKS
Dr. Lee Hunt, President, IADC

08.40  KEYNOTE PRESENTATION
Mohamad Johari Bin Dasri, Vice President, Production Malaysia, Petronas Carigali Sdn. Bhd.

Mr. Bin Dasri will portray Petronas’ view on critical issues in the Asia Pacific region.

09.00  HEALTH, SAFETY & ENVIRONMENT
Session Chair: Adrian Gray, Corporate Vice President QA/QHSE, Aban Offshore Ltd.

Bridging the Risk Management Competence Gap
Gareth Book, Director, Risktec Solutions Ltd.

The drivers for HSE risk management competence in the drilling industry are introduced, highlighting the current competence gaps for the industry. An overview will be given of how these gaps can be bridged, including technical and academic training, and developing bespoke training programs tailored to industry-specific issues. It will ask whether qualification is necessary and provide a case study for the development of a bespoke training program for new recruits. The presentation will conclude with a review of the key benefits of structured training programs that combine the positive aspects of training, qualification and understanding of industry-specific technical issues.

Improving Your Organization’s Ability to Prevent Life-Altering Injuries and Other Catastrophic Events
Fazlee Mansor, Consultant, Ricky Yu, BST

A starting point is provided for any leader who wants to redefine serious event prevention in their organization. Beginning with a review of the latest findings in serious event research, the presenter outlines key considerations for building an integrated, data-driven approach to safety and operational excellence.

HSE Culture in Deep Drilling Group
Subba Rao Palagummi, HSE Specialist - Deep Drilling Group, Mohammed Jassem Al Saeedi, Nayef Al Anzi, Abdul Latheef, Sridar Gopalan, Jignesh Thakkar, Kieran D’Silva, Kuwait Oil Company

Deep Drilling group moved forward with an aim to create the HSE culture within the group by involving everyone with a belief that HSE is everyone’s responsibility. Our goal is to create a system that works by itself rather than to depend on individuals to work. To ensure this to happen first and foremost focus has been to standardize and streamline various HSE aspects/initiatives.

10.30  NETWORKING BREAK & OPEN EXHIBITION

11.00  INNOVATIVE APPLICATIONS & TECHNICAL SOLUTIONS
Session Chair: Graham Buchan, Business Development Manager, Halliburton Far East Ltd.

Innovations in Training - Improved Decision Making and Human Performance through Virtual Simulation
Troy “Korn” Kehoe, COO, Check-6 Training Systems

Imagine…..conquering complex well control scenarios or practicing a complex, dynamic lift prior to putting personnel in harm’s way. 90% of critical decisions made in the aviation industry use this decision making model. Now, simulation environments can be delivered remotely allowing students to practice well control procedures, drilling and crane operations within the footprint of a laptop. Incorporated with the next generation learning management systems, competency and compliance can be automatically assessed, documented and tracked allowing more frequent training, increased knowledge and retention. The oil and gas industry could be well served by adopting this state-of-the-art technology.

Top-Hole Performance Drilling; an Innovative Application of Casing Drilling Technology for Drilling Top-Hole Sections in Asia Pacific
Andrew Harris, Asia Pacific Business Unit Manager, Casing Drilling, Moji Karimi, Calvin Holt, Tesco Corporation

The concept of Top-Hole Performance Drilling was first introduced when utilizing the casing drilling technology in Malaysia resulting in significant performance improvement. In this process the well is drilled and cased simultaneously. Special features of casing drilling have made this technology a best practice for drilling the top-hole sections in the Asia Pacific region. Casing drilling is being implemented to performance-drill top-hole formations in offshore Malaysia. The approach has proven effective for exploration wells and field development drilling campaigns. The presentation discusses the planning, implementation, economics and operational results and lessons learned from top-hole casing drilling operations offshore Malaysia.

New Approach in Solving Lost Circulation Problems in Kuwait

In Kuwait, lost circulation is a common problem in many formations. Different types of lost circulation solutions are used with partially success. A new dual fiber based system was developed to address these lost circulations. A case history will be presented showing the new approach towards lost circulation in Kuwait.

12.30  LUNCHEON & OPEN EXHIBITION
The retirement of the workforce in the industry is normally referred to as the "Big Crew Change". People in this sector normally retire at the age of 55. Since the average age of an employee working at a major oil company or service company is 46 to 54 years old, there will be a huge change in personnel in the coming years, hence the "Big Crew Change". These problems cannot be solved on short notice and will have a serious effect on oil production. Companies look at partial solutions to the problem through drilling automation and knowledge transfer. Such solutions may help but will hardly ameliorate the lack of years of experience. How can we all manage the "Big Crew Change"?

- Bas van Opdorp, Regional Business Development Manager, NOV Fluid Control-Brandt (Far East)
- Rasik Bahadur, Personnel Manager - Asia Pacific, Schlumberger Oilfield Support SB
- Mohamed Noor Rosli bin Baharom, Deputy Vice Chancellor, Student Affairs & Alumni, University Teknologi Petronas

**14.00 MANAGING THE BIG CREW CHANGE**  
*Moderator: Anton Greeff, Director, Sphere Training & Services Pte.*

**14.00**

**15.30 NETWORKING BREAK & OPEN EXHIBITION**

**16.00 LEGAL COMPLIANCE & RISK MANAGEMENT**
*Session Chair: Lee Yong Chiang, Area Manager Asia Pacific, Weatherford Drilling International*

**Critical Legal Issues in Managing Risk under Drilling and Associated Contracts in the Asia Pacific Region**
Denys Hickey, Head of Energy & Offshore Group for the Asia Pacific Region, Ince & Co Singapore LLP

Contractors managing their exposure to risk under drilling and associated contracts, with an emphasis on particular issues that may be experienced in the Asia Pacific region face the following legal issues that will be discussed: contractual indemnities & limitations of liability; liquidated damages; insurance; third party liability; variations and enforceability of contractual provisions under various laws.

**The Issue of Installing ‘Over-Specified Systems’ on MODUs**
Ted Littlechild, Director, Craig Clarke, Business Development Manager Asia Pacific, EFC Group

Technology, especially electronics, is fast-moving, undergoing ever-increasing change. It is attractive to install latest technologies during major MODU projects, and to benefit from improvements in recording, display, automation, etc., but such systems can come with demanding maintenance requirements, which only become apparent after operations begin. Matching the crew's capabilities to such requirements is a critical issue.

**HSEQ Systems Need Governance, Risk and Compliance to be Effective**
Stephen Humphris, Director Business Development, CMO International

In order to be effective, HSE management software must be capable of handling governance, risk and compliance process and integrating content across the entire software architecture.

**08.30 WELCOMING REMARKS**
*Steve Kropla, Group Vice President-Operations & Accreditation, IADC*

**09.00 WELL CONTROL**
*Session Chair: Calvin Holt, Managing Director, eDrilling Solutions AS*

**Automatic Interpretation of Drilling Data and Real Time Modeling Provides Diagnosis and Early Warning of Drilling Hazards of Potentially Grave Consequences on Floating, 6th Generation Drilling Rigs**
Rolv Rommetveit, Managing Director, eDrilling Solutions AS

A very challenging HPHT well has been drilled while running an advanced decision support and ECD Management System. The system has been running in parallel with the operation, and used all available real time drilling data (surface and downhole) in combination with real time modeling to monitor and optimize the drilling process. The system has shown great results of relevance for any critical well using a floating rig, including HPHT, ERD and deep and ultra-deep water. Replay of data showed that kicks and losses were detected very early, and also drilling problems like cuttings accumulation, stuck pipe, pipe washout and plugged bit nozzles were diagnosed automatically even before they could have been detected by the crew.

**Enhancing Safety in Deepwater Drilling Operations with Closed-Loop Circulation Drilling Systems**
David J. Carr, Asia Pacific Region Business Unit Manager – Well Construction, Julmar Shaun S. Toralde, Weatherford

In a post-Macondo world where deepwater drilling is under intense scrutiny and subjected to increased regulatory control, a greater emphasis has been placed on integrating systems that supplement the safety of deepwater drilling operations. This presentation describes the details of how a closed-loop circulation drilling system can be installed and utilized on a dynamically positioned vessel and describes how the system can be used to enhance the safety of deepwater drilling operations. Recent successes and issues encountered in the application of this technology are also shared.

**Algerian Underground Blowout Underscores Importance of Well Control Training and Blowout Contingency Plan**
Michael S. Arnold, Project Manager, John Lee, Ahmed Fourati, Boots & Coots, Pedro Martinez Aguilar, Repsol Exploration

The sequence of events of the well control operation will be presented. This includes a description of the initial influx, steps taken to identify what was happening, operations taken to control the underground blowout and the response of the well and final resolution. A summary of the lessons learned will be outlined.

**10.30 NETWORKING BREAK & OPEN EXHIBITION**

**11.00 CRITICAL COMPETENCY ISSUES**
*Moderator: Larry Holloway, Operations Manager, Atwood Offshore Drilling Ltd.*

Operators, contractors and regulators are being pressured more than ever to ensure that rig personnel in safety-critical positions can be shown to be competent in their assigned jobs. This duty now extends beyond a company's own employees and now includes any third-party contractors involved in a drilling operation. This panel will explore the processes various companies have put in place to not only define key personnel competencies, but to ensure that personnel are properly trained and regularly assessed to know that those competencies have been obtained and are being retained.

- Mike Merritt, QHSE Manager, Transocean
- Edward McWilliams, Corporate Director Safety and Training, Aban Singapore Pte. Ltd.
Reviving Aged Wells...“Planning & Execution”...Case Studies
Khaled Al-Hindi, Drilling & Workover Engineer, Mohammad Al-Mohailan, Iqbal Hussain, Saud Jumah, Kuwait Oil Company

Kuwait Oil Company planned an ambitious project to revive age-old wells with obsolete designs, but with sufficient potential to deliver. Challenges faced in dealing with obsolete wellhead designs such as wrap-around hangers, corroded and parted casings, badly corroded tubing's, unaccounted for fishes inside the well bore, well bores with dual exposed, are stories which need to be told and which hold enormous wisdom for the industry. These are the case histories teaching the industry the outer realms of possibilities in dealing with tough situations.

Do you Really Need that Rotary Steerable? An Evaluation of Applications and Comparisons with High Performance Mud Motors
Eric Malcore, Business Manager, Weatherford

A real world case study that pit rotary steerable results against performance mud motor results is reviewed. It clearly shows that in some cases, the performance mud motor is the clear financial winner.

Manage Accuracy in Time and Cost Estimates for Drilling & Completion Projects: Illustrative Case Study of an Offshore Well
Fabrizio Zausa, Technical Leader of Drilling Technologies, Silvia Masi, Carmen Repetto, Marcellin Tufo, Eni E&P, Jean Michelez, Nicola Rossi, Kwants

It can be difficult to perform accurate time and cost estimates for drilling & completion projects, due to the number of endogenous and exogenous factors that can influence the project's success. In order to overcome these challenges, Eni has implemented a dedicated time and cost estimation process for its drilling & completions projects. This process is called Advised Workflow for Accurate Risk Estimates (AWARE).

The Optimum Choice of Drilling Rigs to be Operated in a Populated Area with Significant Environmental and Economic Constraints
Claudio Molaschi, Technical Leader for New Drilling Technology, Silvia Masi, Carmen Repetto, Marcellino Tufo, Eni E&P

There are many types of drilling rigs as a result of the different conditions one encounters, depending on the location: desert, tundra, swamp, continental shelf or deep water. Environmental impact, project cost and personnel safety are the main issues to be addressed during a drilling project. A hydraulic rig is an ideal solution to satisfy the requirements of these three factors when working in a populated area with significant environmental constraints. A successful application of hydraulic rigs at a field development located in a populated area is described.

Alternate Papers:
The Contractor Quandary: Sustainable Safety Solutions for Short-Term Employees
Ricky Yu, General Manager, BST

Safety activities geared toward short-term employees and the results leading organizations have achieved in successfully implementing these site specific interventions will be examined.

Minimize Risks through Pro-Activeness
Mohammed Jassem Al Saeedi, Manager Deep Drilling Group, Nayef Al Anzi, Subba Rao Palagummi, Sridhar Gopalan, Abdul Latheef, Jignesh Thakkar, Shangril Chaitanya, Kuwait Oil Company

The proactive elements identified and actions implemented to work towards accident free operations in our deep drilling business at Kuwait Oil Company are described. HSE initiatives being taken in deep drilling are aimed at protecting people, property and environment.