

## **3rd Annual Offshore Well Intervention Workshop Asia Pacific Agenda**

### **Section One: Market Analysis and Regulatory Updates**

#### Market Dynamics and Benchmarking

- Understand the well intervention trends taking place in the Asia Pacific and identify the services that can add value to your portfolio
- Examine the areas where operators have made most improvement, to benchmark best practice approaches that can aid performance efficiency
- Using these benchmarks, forecast where further improvements can be made to your intervention programs to offer appropriate returns in the current market

Dan Cole, General Manager - Energy Insights, McKinsey & Co

#### Regulatory Update: Well Life Cycle Directive

- See the current regulations surrounding Petronas MPM's *Well Life Cycle Directive*, paying special attention to practices surrounding mature and idle well stock
- Access the latest game-changing updates to asset life cycle regulations and see how this will establish a definite timeline for the decommissioning of idle platform and subsea assets
- Learn how to navigate the regulatory changes and develop a compliant plan for your mature and idle assets throughout Malaysia

Rahmat Wibisono, Completion, Workover and Intervention, Petronas

### **Section Two: Production Enhancement Case Studies**

#### Targeting Key Production Zones in Mature Fields

- Hear ONGC's goal to increase production from mature reservoirs and see why the offshore fields in the Western Indian basin were selected as candidates for the pilot project
- Review the technology selection process required to target the reservoir's remaining key production zones, resulting in the design of a first-of-a-kind multi-discipline well program
- Analyse how a cost-effective jack-up was utilized for all equipment, intervention services and underbalanced drilling efforts to access trapped reserves via three horizontal drain holes

Rakesh Vij, Executive Director, Oil and Natural Gas Corporation

#### Well Intervention Campaign Results

- See the results from BGEPIl's 2015 multi-well intervention campaign and identify the barrel loss, production and workover efficiency benchmarks set during this program
- Hear how benchmarking and lessons learned helped re-design the layout and vessel equipment to further increase capabilities and efficiencies for the 2016/17 program
- Recognize how these changes resulted in twice the amount of well interventions from the previous year, reducing barrel loss, improving integrity assurance of remote assets and doubling the efficiency across a large campaign on varied well stock

Samir Kale, Staff Well Engineer (CWI) – Non Routine, BGEPIl (A part of ROYAL DUTCH SHELL plc)



#### Re-Establishing Production on an Idle Well

- Examine how specific idle wells are identified as candidates for workover, based on the forecasted technical success rate, predicted recovery and anticipated pay-back window
- View the background of the well, which had been shut-in since 1993 due to lodged fish and had a number of unsuccessful fishing projects to re-establish production
- Analyse the selected technology and methodology of the heavy duty fishing program used to bring the well online and the resulting production and lessons learned

Junnyaruin Barat, Well Intervention Engineer, Petronas Carigali Sdn Bhd

#### Alternative System for Coiled Tubing Rig Up on SPAR

- Hear how Murphy Oil designed and built a unique rigid riser system to offer an effective method for coiled tubing operations from a floating SPAR, resulting in improved the rig-up time
- Analyse how the passive system's design avoids the use of a crane or other mechanisms to support the coiled tubing injector head during operations, providing an HSE advantage by eliminating mechanical or human intervention
- Compare the unit's advantages over the current coil tubing intervention systems, and the operational results after executing the coiled tubing interventions

Intiran Raman, Senior Well Intervention Engineer, Murphy Oil Corporation

#### Case Study: Wellhead, Tubing Hanger and Tree Equipment for Rigless Coil Tubing ESP and Gas Lift

- The challenges in designing, testing, and installing wellhead, hanger and tree in a rigless EOR setup
- Side-by-side comparison of wellheads used in Coil Tubing ESP and Gas Lift
- Product qualification, testing and operational considerations

Rudy Lie, Lead Application Consultant, Turcomp Engineering Services

### Section Three: Well Integrity Case Studies

#### Coiled Tubing Milling

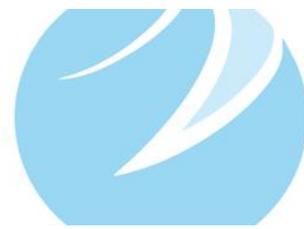
- Access the details of how a broken downhole flapper valve created an integrity issue and limited production from the offshore asset
- Identify why coiled tubing milling was selected as the most appropriate method to remove the obstructive valve and resolve the production limitations
- Takeaway the lessons learned from the operation, including the benefits of utilising a coiled tubing milling unit and further efficiencies learned from the project

Fadzal Ahmad, Wells Manager, Repsol

#### Multi-Well Restoration

- See how EnQuest have approached idle well restoration to realise greater volumes from aging well stock. Utilising a more efficient approach to slickline work and coil tubing work, as well as utilising some different contracting approaches together with PETRONAS

Charles Taylor, Wells Manager, EnQuest



#### Riserless Light Well Intervention Case Study

- Examine how a failed subsurface safety valve had completely ceased production of a new well, forcing the operator to urgently assemble a solution from available regional resources
- Analyse the fast-track plan SapuraKencana employed, noting the multiple contingencies developed with the operator to increase the technical success rate
- Understand how fit for purpose equipment was located, selected and managed, resulting in an effective campaign which revived production to the desired rates

Mark de Castro, Business Development Manager, SapuraKencana Well Services

#### Section Four: Subsea Opportunities in Asia

##### Subsea Well Intervention: New Opportunities for the Asian Market

- Compare the risk profile and potential rewards of different subsea well intervention applications to identify which opportunities are most suitable in the current market
- Focus on the types of subsea well intervention you can conduct from outside the tree using connectors and access points to allow cost-effective liquid well intervention programs
- See how these liquid intervention services remove the necessity of a BOP, isolation rig, and surface package to offer a cost effective subsea production solution for the Asia Pacific

Andrey Blinov, Senior Production Technologist, Shell

##### Acid Stimulation

- Receive data from recent acid stimulation programs to highlight the benefits of this application and identify why it is perhaps not fully utilized in the Asia Pacific
- Apply these results to regional assets and illustrate the market potential for acid stimulation services, including the capacity to address mature and depleted reservoirs
- Note the technology's ability to efficiently improve underperforming subsea assets to increase regional recovery, if the risk is correctly mitigated

John Chesson, Business Development Manager – Asia Pacific, Halliburton

##### Riserless Light Well Intervention Campaign

- Hear how the first large scale multi-well riserless light well intervention campaign will be executed in Asia and identify the scope of services required to execute the project
- Identify the operator's goals for the project, planned activities, vessel specifications, RLWI stack and tooling box that will be used
- Access the initial results that have been realized from the program and understand how dedicated LWI units can support your next well projects

Bevan Morrison, International business Manager, FMC Technip



## Section Five: Mature Well Integrity and P&A

### Advanced Brownfield Integrity: Opportunities for P&A

- Highlight the importance of developing an end of life solution by correctly identifying the appropriate assets for abandonment and developing a robust P&A plan
- Recognize the importance assuring well integrity, with a specific focus on scale remediation, ascertaining casing quality and ensuring cement and barrier verification
- Plan how to include these practices in earlier phases of well integrity inspections rather than during P&A planning stage to reduce your final liability

Espen Dalland, Area Vice President, Welltec

### Well Intervention and P&A Campaign Risk Mitigation

- Hear Niko Resources' plan for a 30 well P&A program of both onshore and offshore assets in India to see how the operator has mitigated risk across a wide and varied well stock
- Learn how the latest workover and downhole applications can be adapted to P&A projects to offer a more cost effective approach to decommissioning and abandonment
- Consider the role of innovative methods to isolate hydrocarbons that reduce subsea abandonment costs and new section milling tools that can minimize time spent over the well

Shashank Shekher, Senior Technical Advisor, Niko Resources

### Planning for Effective Well P&A Programmes

- Hear how Shell Malaysia's focus on well P&A has led to a systematic approach to classify wells for abandonment based on zonal and annular isolation
- Showcase an example from the upcoming subsea well abandonment campaign where an integrated multi-disciplinary approach resulted in a simplified well abandonment design with considerable cost savings
- Analyse the technologies that have been chosen and the expected benefits and outcomes from these selections

Teo Choon-Hoong, Well P&A Team Lead, Shell

### Integrated approach to P&A operations utilizing a self-propelled Liftboat with effective downhole services

- Review the technical development of cantilever solutions, including the economic case for using these in the Asia Pacific
- Analyze the advantages and cost efficiencies of this integrated solution for P&A activity in South East Asia
- Review the impact a self-elevating support vessel (SESV/Liftboat) has on multi-well programs and multi-platform P&As

Jordan Whyte, Business Development Manager – Asia, GMS UAE



## Section Six: Training Workshop

### Biennial Well Control Training Sufficient in Today's Oil and Gas Industry

- All the easy oil is gone and so are all the easy well control situations, train your team to prepare for current well control hazards
- Compare the responsibility of two key people in different industries and the training these people receive
- Challenge the minimal changes in well control training over the years compared to how we explore for hydrocarbons
- Discuss what our standards say vs what we really want!

Peter Hone, Technical Manager, Welltrain