

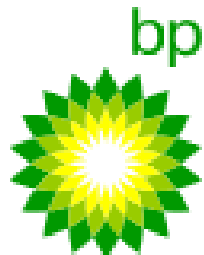
Operator Pavilion - Topics to be discussed - Day 1 - 830-1130



- Maintenance of well integrity and optimisation of production potential
- Operation excellence and cost effectiveness through continuous performance improvement
- Identification of new technologies that can bring value



- Competency at all levels. What are you doing to enhance and promote competency within your business, post down turn. Reduction of personnel and work force. Demographics.
- Storm chokes – other options available, reliability, intervention frequency, risk
- Subsea well isolation – sealing technology, deployment / removal methods, barrier verification



- Water shut-offs in horizontal wells with screen only completions
- Limited lubricator lengths for subsea interventions
- Understanding / logging sand control completions to understand potential deficiencies

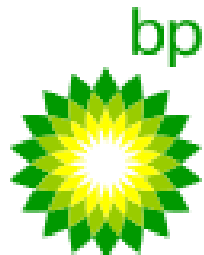
Operator Pavilion - Topics to be discussed – Day 1 1130-130



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Operator Pavilion - Topics to be discussed – Day 1 - 130-330



- Subsurface Safety Valve Remediation: seal bore damage – unblocking blocked control lines
- Options for failed control lines, intelligent storm chokes
- A-B Annulus remediation through intervention
- Annulus Water Shut off (in high deviation wells) – reduce water cut without workovers
- Low Cost Data Acquisition – to identify more opportunities

aramco



- Casing-casing annulus integrity and gas migration remediation
- Extended reach operations on coil tubing (maximising the depth) in both drilling and intervention
- Advanced technology solutions for optimising intervention operations

- Digitisation challenges – digital collaboration platform (alliances, service companies etc) data quality, industry standards, real time data
- Personnel utilisation challenges – limited POB available. How can service companies and operators more efficiently collaborate on operational tasks offshore? Cross-trained personnel, integrated operations
- Combined technology – this has been discussed for a long time – solutions have been presented. Challenges – why have we not succeeded with utilising combined solutions/services to optimise our operations?

Operator Pavilion - Topics to be discussed 330-530



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- How to utilise technologies to incorporate more well decommissioning processes in our pre-abandonment work scopes to reduce rig time on location
- Liquid loading in late life / low rate wells
- Production impairment and well accessibility issues as a result of scale/salt build up across reservoir

Operator Pavilion - Topics to be discussed – Day 2 (0830-1130)

- Service quality and the impact of cost reductions
- Performance specification for ageing assets
- Cement evaluation across multiple casing strings



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Operator Pavilion - Topics to be discussed – Day 2 1130-130



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- Abandonment of smart wells with deep control lines. Removal or isolation of control lines. Barriers with control line penetration – how do we achieve a barrier that meets Cooper and Regulatory standards?
- Through tubing Cement Bond Log – requirement for quality evaluation of production casing cement and bond through the production tubing
- Single trip coiled tubing for perf/wash/cement. Operation required for reservoir zonal isolation or abandonment

Operator Pavilion - Topics to be discussed – Day 2 - 130-530



- Digitisation and automation in well integrity testing
- New well barrier verification and monitoring technology
- Alternative barriers (materials) for zonal isolations and/or well abandonment