



DrillSafe



NOPSEMA

Australia's offshore
energy regulator

Pursuing Offshore Safety

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DrillSafe – Perth

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nypsema.gov.au



Hot topics

- Year in review
- Steve Walker review
- Third party equipment and services
- WOMPs/Safety Cases
- Decommissioning/ P&A
- IRF/IADC/IOGP – well control



Year in review

- Oil price
- C-19: industry response
 - Keeping people safe
 - Essential energy
- Speed over perfection
- Financial consequences
- Deferred maintenance; skills and cap



Steve Walker Review



Recommendations

- Strategic approach
- Root causes
- Ownership of risk



Review of the Circumstances that
Led to the Administration of the
Northern Oil and Gas Australia
(NOGA) Group of Companies

Steve Walker
June 2020

Equipment & Services



Titleholder/operator
/service partner

Control of work

Clarity of
responsibilities

Knowledge of risks



WOMP/Safety Cases



- WOMP – common concerns
- DISC/NOPSEMA WOMP initiative
- Interfaces: Roles and responsibilities
 - APPEA self-audit checklist
 - Industry tools – API Bulletin 97
- Opportunities to improve



Decommissioning/ P&A

Decommissioning Framework Review

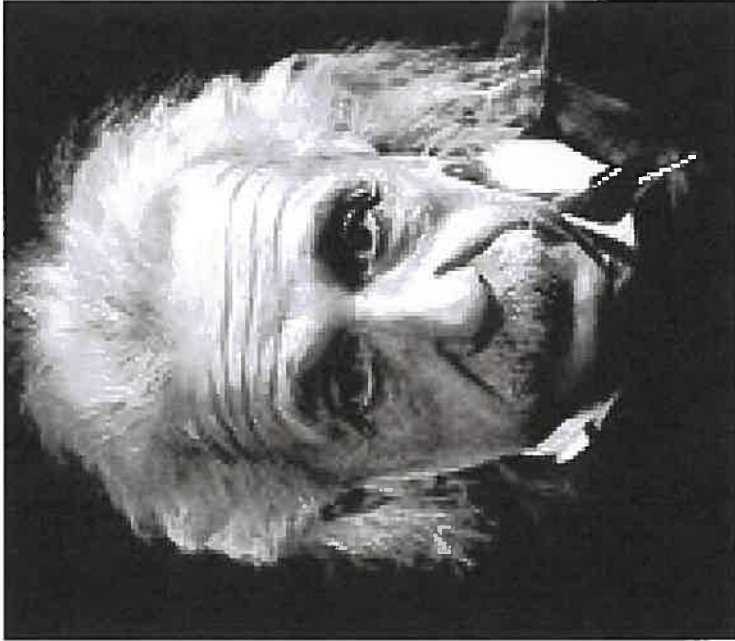
S572: “maintain...” “remove when not in use”

S270: “plugged and closed off”

SPE Oct 2020: The potential loss of containment, as a result of delay in well abandonment, presents ongoing risk to safety, environment & ‘licence to operate’.

1000 wells





“If I had an hour to solve a problem I’d spend **55** minutes thinking about the **problem** and **5** minutes thinking about the **solution**.”

Albert Einstein



Well Control



IRF/IADC/IOGP – Well Control Problem Statement

Global perspective

- Pathways to address e.g.
 - PP/FG
 - Interfaces
 - Adopt standards

 International Regulators' Forum GLOBAL OFFSHORE SAFETY	
Title: Proposed submission for IRF • Well Integrity: Prevention of Well Control Incidents, the case for industry guidelines	
Problem Statement: Much industry collective effort has gone into defining responses to deal with any loss of well control situation. Recent data and incidents provide a view that a deeper understanding of the underlying causes of well control incidents is required. The industry has focused on the well control envelope, but the focus towards the Left Hand Side of the "Loss of Well Control" bow tie and thus reduce the likelihood of any loss of well control events taking place. The planned effort can be split in three broad areas: 1) Well design "inputs" (pore pressure/fracture gradients/geological risks). 2) Translation of 1) into efficient and safe well designs 3) Definition of safe operating envelopes for Wells activities in the operations and production phases. It is recognised that whilst some areas like pore pressure/fracture gradient prediction has no universally accepted industry guidelines, in other areas guidance does exist. As such, this effort will likely need some development of new guidance but also target implementation of existing guidance.	
The change we expect to see: <ul style="list-style-type: none">• Systematic industry approach to pore pressure/fracture gradient prediction, likely through the development and adoption of new industry baseline guidance.• Systematic flow and fracture gradient inputs required for designing any new pore pressure/fracture gradient envelope and efficient well designs, likely through development and implementation of new industry baseline guidance.• Systematic implementation of existing relevant guidance on safe well operating envelopes.	
External Organization(s) that could be tasked with leading the change / developing the solution <ul style="list-style-type: none">• EAGE / IOGP / API / IADC / IMCF	
Key performance indicators: <ul style="list-style-type: none">• Development of industry wide standards or guidelines.• IRF/IOGP collaboration on selection of targeted guidance for shared implementation focus.• Reduced likelihood of well control incidents.	

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Questions?

