

Advanced Well Integrity Management 2

Singapore/ Perth 4 days 2015

Prerequisite: AWIM 1



TRAINING ACADEMY

Well Integrity is 'the application of technical, operational and organizational solutions to Reduce risk of uncontrolled release of formation fluids throughout the life cycle of a well' (NORSOK D-010).

INSTRUCTOR:

Colin Stuart

Managing & Technical Director

- 35 years of experience
- Fellow of Institute of Mechanical Engineers
- Specialist in well control support, risk management, integrity management and complex well design including HPHT
- NOPSEMA Expert Witness for the Montara Blowout Investigation

COURSE TESTIMONIALS:

"This course reignited my passion for engineering"
Santos Drilling Engineer

"The best instructor I have seen in my career"
Production Supervisor – TOF Urumqi 2012

"The best course I have been on – I want MORE!! The course has given me a new enthusiasm/passion to expand my knowledge in this area"
Well Integrity Engineer

RELEVANT COMPANY

EXPERIENCE:

- Provision of well integrity expertise to operators and regulators
- Failure investigation and analysis, including blowouts
- Developers of barrier integrity management solutions
- Well construction and completion design
- HPHT services

Course Overview

Well integrity is of the utmost importance for personnel safety, environmental protection and risk management. As such there is an ever increasing need for raising awareness and managing risks for oil and gas operators and government bodies. This applies both to well construction and production operations.

Course Objective:

1. Understand the current well integrity standards and how to achieve compliance; how to define and test barriers; approaches to setting standards.

2. Understand the scope purpose and frequency of wellhead integrity assessment; key corrosion mechanisms and material selection considerations; Surface wellhead and Xmas tree specifics; Challenges in barrier validation against standards; Appreciate the potential for and severity of 'Loss of Containment' events in wells.

3. Understand how to establish a decision framework based on well integrity assessment; To interpret annulus pressure trends and recommend appropriate action to Management; Understand when and how to conduct fluid sampling, what testing to request, and interpreting the results; Be up to date on latest well integrity diagnostic techniques; To compile a context rich assessment of a well condition, to positive identify the source well integrity problem; Learn possible applications of various tools.

4. Understand basic requirements for rig workover planning to restore integrity or to replace wellbores; Understand basic requirements for rigless workover planning to restore integrity or to replace wellbores; How to set defensible risk mitigations, allowing wells to produce under dispensation; Understand current technology and methodology for well abandonments; Techniques for understanding how to identify and influence changes in design and/ or well construction strategies based on systemic well integrity problems.

For registration and enquiries, contact:

pearlyn.long@stuartwright.com.sg

8 Kallang Avenue, #13-09 Aperia Tower 1
Singapore 339509

Tel: +65 6303 9988 Fax: +65 6303 9989

www.stuartwright.com.sg

Course Schedule

DAY 1: Setting Corporate Rules for WI

- 1.1 Latest WI standards and applying them
- 1.2 Setting barrier rules
- 1.3 Case studies

DAY 2: Identifying WI Issues

- 2.1 Maintenance and inspection for well integrity
- 2.2 Corrosion mechanisms and material selection
- 2.3 Surface wells
- 2.4 Subsea wells
- 2.5 Barrier rules validation
- 2.6 Case studies – Example well integrity problems by well types

DAY 3: WI Investigation Techniques

- 3.1 Well failure models, including numerical well failure prediction
- 3.2 Pressure trends
- 3.3 Fluids sampling and diagnostics
- 3.4 Downhole diagnostics
- 3.5 Historical integrity analysis method
- 3.6 Case studies

DAY 4: WI Solutions

- 4.1 Rig interventions
- 4.2 Rigless interventions
- 4.3 Risk mitigation without intervention
- 4.4 Well abandonment
- 4.5 Improving the feedback loop between design, construction and operations

Who Should Attend?

Technical Directors, Asset Managers, Petroleum Engineers, Well Integrity Engineers, Production Technologists, Production Personnel (OIMs, Production Operators, Maintenance Supervisors), Drilling and Well Servicing Personnel (Drilling Managers, Well Engineers, Completion and Well Service Engineers, Drilling Supervisors, Rig Managers, Toolpushers, Drillers), Regulators, Service Companies

During the course, attendees will participate in Exercises and knowledge sharing using real examples, to maximize learning outcomes.