

Well Plug & Abandonment Virtual Symposium

8 - 9 June 2022



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Overview

Many of Indonesia's oil and gas fields are coming to the end of their commercially viable operational lifespan. There are currently more than 100 inactive platforms and more than 20,000 inactive wells (onshore and offshore) awaiting decommissioning and abandonment.

The Indonesian industry is calling for suppliers offering enabling or emerging technologies or novel approaches that could be applied in a cost challenged environment to permanently decommission and abandon these assets. Norway has a reputation for innovation and is in the forefront in terms of technology and expertise in many of these areas.

NORWEP will host an online webinar to showcase some of these technologies and novel approaches. This is an opportunity for you to hear from the experts and learn from their knowledge and experience.

When & where

- 8 - 9 June, 14:00 - 17:00 WIB | 09:00 - 12:00 CEST
- Zoom webinar
- The link will be shared with registered participants the day before the webinar

The event will be moderated by Tore Moe, NORWEP Energy Advisor.

Programme

Day 1: 8 June 2022 [WIB] – Wells P&A solutions (part 1)

14:00	Welcome and Introduction	Norway Ambassador
14:10	Indonesia decom overview	SKK Migas
14:30	Indonesia P&A overview	Pertamina
14:50	P&A research & technology qualification	Sintef
15:05	Novel wireline based, rig-less, P&A technologies	Aarbakke Innovation
15:20	BREAK	
15:40	Alloy well sealing technology	Wellstrøm
15:55	Resin based plugging/sealing technology	WellCem
16:10	RePlug® - a new cement solution	ReStone
16:25	Q&A	
16:55	Close Day 1	

Day 2: 9 June 2022 [WIB] – Wells P&A solutions (part 2)

14:00	Welcome Day 2	Tore Moe
14:10	Find and sort all relevant information	IntOp
14:25	Thermite based barriers	Interwell
14:40	Slot recovery and P&A solutions	Archer
14:55	Innovative plug and casing punch technology	E-plug
15:10	BREAK	
15:30	PWC - perforate-wash-cement	HydraWell
15:45	Multistring barrier verification	Wellguard
16:00	Q&A	
16:30	Close Day 2	

Technologies & solutions

Aarbakke Innovation - Wireline based P&A



Our focus is to achieve rig less P&A, as for example our technology for locating and removing downhole cable and our downhole heating technology. The presentation will cover some of the technologies being launched into the market.

Archer Oiltools – Stronghold®



The Stronghold® systems provide an economical and effective alternative to traditional plug and abandonment (P&A). By eliminating the need for milling, these systems deliver a step-change in efficiency and effectiveness for P&A

E-Plug - TorqPlug®



TorqPlug is the industry's first barrier qualified bridge plug that can be set multiple times and retrieved on the same run - the TorcPlug®.

HydraWell - PWC®



The Perf-Wash-Cement (PWC®) method replaces section milling for annulus remediation in well abandonment applications, providing significant time and cost savings, and eliminating the need to handle milling swarf at surface.

Interwell - RockSolid



Technology in development; A targeted and controlled exothermic reaction acts like magma: melting surrounding well elements, flowing and then solidifying back to solid rock again. Our vision is to reinstate caprock integrity permanently across the well cross section, sealing vertically and horizontally, independent of well design, application and formation type.

IntOp - Fetch



The IntOp Fetch gains new insight across disciplines and information silos without moving data. See information from any system in contexts across activity types, departments, customer segments and geography.

ReStone - RePlug®



RePlug® turns an existing cement blend into a self-healing, gas-tight (CO₂ and H₂S) ductile cement by adding RePlug®, and still use existing methods and infrastructure.

Sintef - SWIPA



The Subsurface Well Integrity, Plugging and Abandonment (SWIPA) center will gain a scientific understanding of permanent well barriers and improve the methods for well plugging. SWIPA is a platform for innovation, and strong interaction within the center will generate spin-off projects and technology transfer opportunities for the industry. 5 R&D Centers, Equinor and Wintershall plus 20+ industry partners.

Wellcem - WRS



The Wellcem Resin System (WRS) is a polymer resin system that is used in plug and abandonment operations. The WRS is capable of penetrating deep into permeable formations and narrow channels to seal-off undesired fluid flow into or out of the wellbore.

WellGuard - Multistring barrier verification



WellGuard is developing a new technology for multistring barrier verification in oil and gas wells. Providing the capability for through tubing barrier evaluation will contribute to a tremendous cost saving to well P&A. Field qualification starts 2H 2022.

WellStrøm - Next-generation alloy well sealing technology



The Wellstrøm alloy plugging technology is the result of over 20 years of research and development in alloy sealing technologies and is the world's first plug design with an anticipated 3,000-year life qualified according to DNV-RP-203 - Jul 2013, ISO 14310 (V0) and Oil & Gas UK. The unique technology utilises an electrically controllable, rigless, wireline-deployable and verifiable method of installing permanent downhole barriers based on eutectic alloys. Our aim is to deliver a step-change in well abandonment efficiency, reliability and environmental footprint reduction, and dramatically reduce the cost of plugging offshore wells with sealing performance demonstrably equivalent or superior to traditional cement plugs.

