



19-20 SEPTEMBER 2023

JW MARIOTT HOTEL

RIO DE JANEIRO, BRAZIL

Well Decommissioning in Brazil

Operators in Brazil are projecting an expenditure of approximately BRL 30 billion for the decommissioning of almost 10,000 wells between 2022 and 2026. Although more than 90% of the wells in question are onshore, it is observed that these wells correspond to about 18% of the expected expenditure, which confirms Brazil's challenging contrast for decommissioning: large number of onshore wells and significant expenditure on offshore installations.

By way of comparison, the country still seen as a hotbed of decommissioning and abandonment of wells, United Kingdom, in its recent 2021 Decommissioning Insight report indicated an expected expenditure of approximately BRL 51 billion in 10 years, which represents twice the time considered for the cases in Brazil. This demonstrates the relevance of the issue of well abandonment locally, putting the country in the spotlight.

In this context, the largest national operator should still be responsible for a significant part of the decommissioning activities of wells in the offshore environment. However, new relevant players have accessed mature facilities through divestment processes and will also carry out this type of activity.

On the regulatory side, relevant changes have taken place since 2017:

- the Wells Integrity Management System entered into force, establishing requirements and guidelines for permanent and temporary abandonment of wells;
- ANP Resolution No. 817/2020, providing for the decommissioning of E&P facilities;
- ANP Resolution No. 854/2021 – regulating procedures to present financial guarantees for the decommissioning of E&P facilities, composing an updated regulatory framework to support the massive activity.

This SPE workshop, will discuss the challenges, technical and recent regulatory learnings such as: wells and equipment with high age, sometimes obsolete and with unavailability of information, uncertainties regarding the condition of integrity, existence of damage and deformations in the production or coating column, requests for regulatory exemption to simplify the abandonment configuration, permanent abandonment through tubing in sections with cables and control lines, qualification of alternative materials to cement, etc. The Program Committee encourages knowledge sharing among the industry and the search for technological solutions to carry out safe and cost-effective operations.

The interaction with experienced professionals, companies and institutions is a key component in the discussion of future of technology and the establishment of networking.



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Technical Agenda

TUESDAY, 19 SEPTEMBER



MORNING EVENTS

All Technical Session take place at the Wayana Ballroom

0700–0800 **Registration Check-In and Continental Breakfast** Foyer

0800–0815 Chairperson's Welcome and Introduction

0815–1000 **Session 1:** Regulations for P&A
Chairs:
Claudia Vasconcellos, Petrobras
Joao Humberto Guandalini Batista, Repsol

TBD

TBD

Regulatory Challenges in the Abandonment of Wells According to ANP Resolution 46/2016 (WIMS)
Mayra Aquino, AMA & SPE Brazil Section

Well Decommissioning: Relevant Regulatory Issues
Rafael Augusto do Couto Albuquerque, ANP

1000–1030 **Coffee Break**

1030–1200 **Session 2:** P&A Case Studies and Lessons Learned
Chairs:
Marcelo Matos, Petrobras
Joao Humberto Guandalini Batista, Repsol

Petrobras Well Decommissioning: Good Practices and Lessons Learned in Deepwaters
Saulo Aleluia Barcelos, Petrobras

2022 Bijupira and Salema P&A Campaign Lessons Learned
Vivianne Mendonca, Shell

TBD

TBD

1200–1330 **Lunch**



AFTERNOON EVENTS

1330–1500

Session 3: Case Studies of Technologies Being Applied to P&A- Part I
Chairs:
Caio Nascimento Cisneiros, Petrobras
Igor Debacker, Shell

Rigless Shallow Water Subsea Well Abandonment – Utilizing Purpose-built Intervention Vessel with Integrated Project Management and Efficient Tubing Recovery Methods Open Water
Sam Perryman, Helix Energy Solutions Group, on behalf of the Subsea Services Alliance

End-to-End Solution on Well Cross Sectional Barriers
Fernando Zapata Bermudez, Archer Oiltools

Riserless Plug and Abandonment Case Studies: Through-tubing Cementing and Open Water Tubing Retrieval
Andrea Sbordone, TechnipFMC

Case History – Challenges of Smart Well Completions P&A
Rafael Bonon, Welltec

Successful Annular Isolation with Perf, Wash and Cement (PWC) on Coil Tubing: A key element of the Road to Rigless Well Abandonment
Tom Leeson, Hydrawell

1500–1530

Coffee Break

1530–1730

Session 4: Case Studies of Contractual Models for P&A
Leonardo Pacheco da Silva, Petrobras
Steven Allan Canny, Weatherford

A Paradigm Shift in Wells ABEX Risk Reduction: An EPSm Factory Well Abandonment Contracting Pilot Case Study
Juan David Rodriguez, Steven Canny, Weatherford

Integrated Well Decommissioning is a Team Sport!
Bart Joppe, Baker Hughes

The Power of Partnership: Unleashing Synergy and Driving Impact, Bringing Well Decommissioning to a Next Level
Janio Cornelio, Mario Nava

Peregrino Electrical Submersible Pumps Contract Improvements
Tarcisio Porto, Ramon Matos, Equinor

1730–1830

Networking Reception

Copacabana

WEDNESDAY, 20 SEPTEMBER

MORNING EVENTS

0730-0830	Continental Breakfast	
0830-0930	Session 5: P&A Case Studies and Lessons Learned in P&A	Chairs: <i>Rafael Purificação, SPE Brazil Section Officer</i> <i>Tiago Brasil, BW Energy</i> <i>Tiaraju Piaia Bernardi, Petrobras</i>
	Agnostic Solution for Plug and Abandonment	<i>Luiz Felipe Rozo, Baker Hughes</i>
0930-1000	Coffee Break	
1000-1130	Session 6: Case Studies of Technologies Being Applied to P&A - Part II	Chairs: <i>Caio Nascimento Cisneiros, Petrobras</i> <i>Igor Debacker, Shell</i>
	A Rigless, Safe and Cost-effective Method for Enhanced Well Abandonment	<i>Juliana Lessa, Italmatch Chemicals</i>
	Rigless P&A with Perf & Melt	<i>Paul Carragher, BiSN</i>
	Machine Learning Assisted Cement Integrity Evaluation During Plugging and Abandonment Operations	<i>Isabel Camerini, Ouronova</i>
	Improved Well Decommissioning utilizing versatile Hydromechanical Slotting Tool	<i>Knut Inge Dahlberg, Antonio Suarez, Baker Hughes</i>
	P&A in Brazil with Open Water Tubing Retrieval	<i>Marcelo Tomaz de Matos, Petrobras</i>
1130-1300	Lunch	

AFTERNOON EVENTS

1330-1530	Session 7: New Technologies and Techniques for P&A	Chairs: <i>Emilio Silva, Petrobras</i> <i>Rafael Purificação, SPE Brazil Section Officer</i> <i>Tiago Brasil, BW Energy</i>
	An Electric Wireline Tool System that can Scan, Machine, Perform Robotic Operations and Much More - A Status Update	<i>Svein Bjelland, Axter</i>
	P&A Without Production Column Removal by PLASMA Milling	<i>Farley Vilaca, GA Drilling</i>
	Riserless Coiled Tubing	<i>Andrea Sbordone, TechnipFMC</i>
	Full-scale P&A Technology Testing & Infrastructure	<i>Steinar Lomeland, Ullrigg Test Centre - NORCE</i>
	Risk-based, Numerical Modelling Supported Well P&A Design and Integrity Assessment	<i>Morteza Haghighat Sefat, Heriot-Watt University</i>

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SPE recognizes the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognize that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly.

COMMERCIALISM

In remaining consistent with workshop objectives and SPE guidelines, commercialism in presentations will not be permitted. Company logos should be used only to indicate the affiliation of the presenter(s).

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Attendees will receive 1.6 CEUs. One CEU equals 8 contact hours of participation. CEUs will be awarded through SPE Professional Development for participation and completion of an SPE workshop. A permanent record of a participant's involvement and awarding of CEUs will be maintained by SPE.

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Following the workshop, a URL containing released copies of the workshop presentations will be available to all attendees.

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WORKSHOP FORMAT

Workshops maximize the exchange of ideas among attendees and presenters through brief technical presentations followed by extended Q&A periods. Focused topics attract an informed audience eager to discuss issues critical to advancing both technology and best practices.

Many of the presentations are in the form of case studies, highlighting engineering achievements and lessons learned. In order to stimulate frank discussion, no proceedings are published and members of the press are not invited to attend.

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