



Plugging & Abandonment Collaborative Environment

Agenda for the 13th PACE meeting

Theme:	Environment implications of P&A operations
Date:	Tuesday 19 th October and Wednesday 20 th October
Times:	Day one: All Members & Guests: 06:00 - 12:00 CDT on Tuesday, 19 th Oct Day two: Members only: 06:00 - 11:35 CDT on Wednesday, 20 th Oct
Meeting venue:	Virtual
Contact:	Jolanta Pitak - Jolanta.Pitak@otmconsulting.com Dawn Dukes - Dawn.Dukes@otmconsulting.com Shreekant Mehta - Shreekant.Mehta@otmconsulting.com Telephone: +44 (0)1372 631 950 / +44 7817 613 388

The theme of this meeting selected by PACE members is “Environment implications of P&A operations”.

All operators and service companies are now incentivized to minimize their carbon footprint. Several industry trends are looking at emissions reduction in drilling and completion operations, as well as over the producing lifecycle of a development. Should the same drive be seen in connection with emission issues related to P&A operations? If yes, what can be done to reduce emissions / environmental risk associated with P&A? Are there new technologies or processes that utilize less power / emit less carbon / enable better understanding of pre / post P&A emission risk?

There are 3 elements of environmental implications we would like to address at this PACE meeting:

1. Reduction and mitigation of the carbon footprint of P&A operations

What are the novel operational and methodology solutions?

- Methodologies, technologies & materials:
 - Rigless – downhole vs surface solutions
 - Electrification of rigs
 - Alternate materials (e.g. advanced cement / replacing cement)

2. Post P&A leakage risk

Do we have a deep enough understanding of post P&A Subsurface Containment Assurance (SCA) risk? Could a deeper understanding of long term SCA risk support simplifying P&A plugging standards which include significant safety factors due to significant uncertainties; Example: Single well vs holistic field SCA risk assessment

3. Potential effects of P&A operations on biogas seepage

The world has always seen significant releases of biogas as a natural occurrence. It has been suggested that P&A operations have exacerbated this phenomenon. What is being done to address this by O&G stakeholders? Do O&G operations increase biogas seepage risk? Are there technologies to better understand natural seepage / technologies that can measure and/or mitigate any increased release around P&A'd wells.

Tuesday, 19th October 2021

	Day one		CDT Houston	CET Europe
	Registration		06:00	13:00
1	Meeting welcome and introductions	OTM	06:15	13:15
2	Operator P&A News Flash	Operator members	06:30	13:30
3	A new integrated approach to subsea P&A	Repsol Sinopec Resources UK	07:30	14:30
	Break		08:00	15:00
4	The chicken and the egg: The relationship between seepage from abandoned hydrocarbon wells and natural seabed seeps	Norwegian Petroleum Directorate, Rune Mattingsdal	08:15	15:15
5	The fate of hydrocarbon leaks from plugged and abandoned wells by means of natural seepages	University of Stavanger, Mahmoud Khalifeh	08:45	15:45
6	Rigless abandonment of multi-annulus using both bismuth and cement with real time verification of both the bismuth and cement plug	PandA Seal Limited, Phil Head	09:15	16:15
	Break		09:45	16:45
7	Sea glider - global environmental monitoring for P&A wells	Alseamar, Thierry Grandin and Orens De Fommervault	10:00	17:00
8	The fate of plugged wells after abandonment: a proposal for a Knowledge Building Project for the Industry	IFE, Stephane Polteau	10:30	17:30
9	Natural methane seepage: A broadly diffused phenomenon	CEED, University of Oslo, Adriano Mazzini	11:00	18:00
10	Leakage of plugged and abandoned wells – does it matter?	University of Stavanger & NORCE, Øystein Arild	11:30	18:30
	Close of day one		12:00	19:00

Wednesday, 20th October 2021

	Day Two - Members only session		CDT Houston	CET Europe
	Registration		06:00	13:00
11	Real life examples of carbon footprint reduction in P&A operations today!	Baker Hughes, Bart Joppe/ Knut Inge Dahlberg	06:15	13:15
12	Harnessing sealing formations for well operations and abandonment	THREE60 Energy, Graeme Laughton/ Matteo Loizzo	06:45	13:45
13	Case Studies on multi-string isolation logging in P&A operations	Probe, Jun Zhang	07:15	14:15
	Close of general session		07:45	14:45
	Operator session	Service Providers session		
14	Wellstrøm & TotalEnergies	DNV	08:15	15:15
15	TotalEnergies & Hydrawell		08:55	15:55
16	EXEDRA		09:35	16:35
	Break - Members only session		10:15	17:15
17	All	Network direction	10:30	17:15
18	Meeting close	OTM	11:30	18:30
	Meeting close		11:35	18:35