



Permanent P&A in the Greater Ekofisk Area

Plug and Abandonment Seminar - October 20th, 2022

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Agenda

1. Overview of permanent P&A in the Greater Ekofisk Area
2. P/W/C Journey and Performance
3. Milling Performance
4. Summary



GEA PP&A Overview – 34 wells PP&A'ed last 4 years

Ekofisk 2/4 Bravo

- **24 slot** wellhead platform
- **5 wells** PP&A'ed in 2014 – 2016
- **8 wells** PP&A'ed & 8+5 conductors removed in 2020/2021

Eldfisk 2/7 Bravo

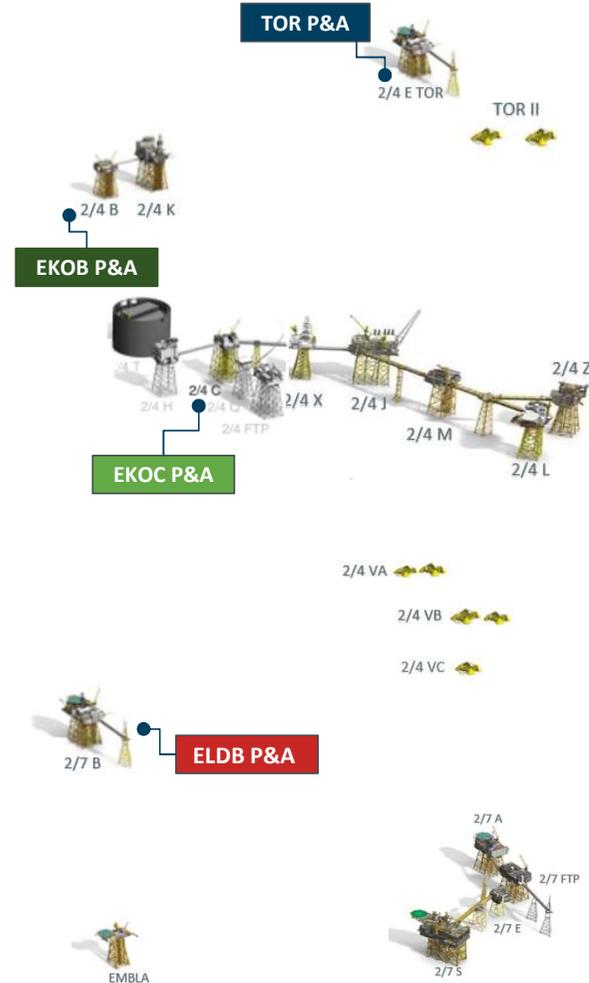
- **22 slot** platform with drilling unit
- **6 wells** PP&A'ed in 2015/2016
- **6 wells** PP&A'ed in 2021/2022

Tor 2/4-E

- **18 slot** wellhead platform
- **6 wells** PP&A'ed & conductors removed in 2019/2020
- **10 wells** PP&A'ed in 2021/2022
- **12 conductors** to be removed as part of cessation scope in 2024

Ekofisk 2/4 Charlie

- **23 slot** wellhead platform
- **4 wells** PP&A'ed in 2022
- **2 wells** invest + temporary suspended in 2022



Permanent P&A in the Greater Ekofisk Area



P&A on the Norwegian Continental Shelf is governed by NORSOK D-010:2021:

- Establish 2 ea Reservoir plugs + 2 ea Miocene plugs + 1 ea Environmental plug



Select fit-for-purpose approach/methods:

- Well design/ geometry/ status (single/ dual casing, cement in annuli, degraded equipment, pressure)
- Subsidence leading to deformations/ restrictions in tubing and casing (limited tool access)
- Minimize casing removal (cut & pull/ mill)

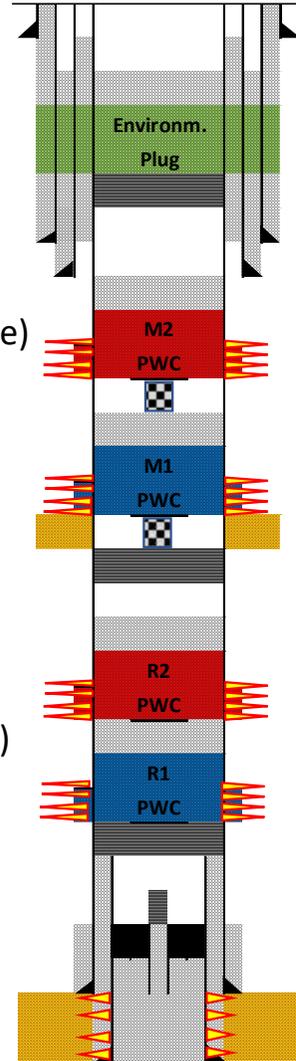


- P&A Risk Assessment Process → Risk to be understood, managed and acceptable

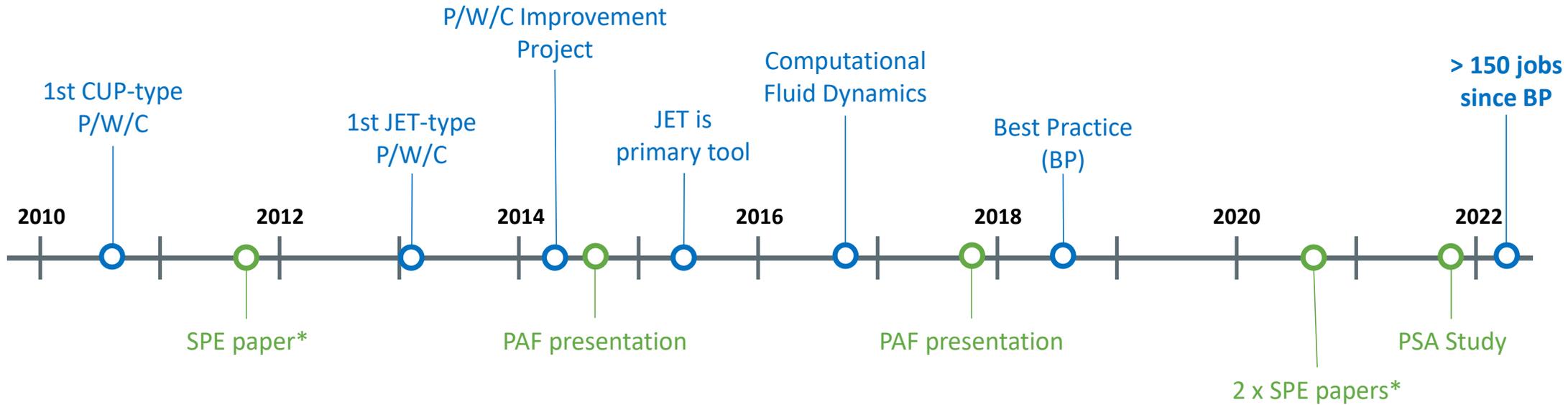


Always evaluating methods for more efficient operations/ improve final PP&A outcome:

- Developed P/W/C as main method – success story (7", 9 5/8" and 10 3/4" single string applications)
- Main time/cost driver in near term future – removal of casing (due to dual casing design)



P/W/C Journey – from good to great!



For ConocoPhillips, P/W/C have been and will continue to be a key enabler to ***safely deliver high quality*** barrier plugs at ***competitive cost*** and ***low emissions***.

* SPE-188640-MS, SPE-202397-MS & SPE-202441-MS

All Inclusive 2021 P/W/C Performance

- 49 operations divided between 5 units (2 modern JU, 3 platform drilling units)
- Time measured from TBT for TCP operation until tag/test completed – all inclusive
- Installs primary plug + secondary plug. SIMOPS time saving not accounted for here

4 step operation

1. PU TCP/BHA & trip in	2. P/W/C operation (SPE-202397 –MS)	3. Trip out & LD BHA	4. (WOC), PU BHA, trip in, tag & test
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For 1, 3 and 4 performance is a function of rig/selected cement setting time and monitored over standard drilling KPIs

Actual time, 28 one-trip operations in 2021, all inclusive	P ₁₀ [hrs]	P ₅₀ [hrs]	P ₉₀ [hrs]
Roundtrip BHA (step 1, 2 and 3)	23,1	28,7	34,8
Complete operation (Step 1, 2, 3 and 4)	33,4	41,9	48,4

2021 performance challenges

- Casing leaks (forced test via retrievable mechanical plug)
- Drillpipe washout during cement operation
- Wash pipe failure during cement operation

Key learning

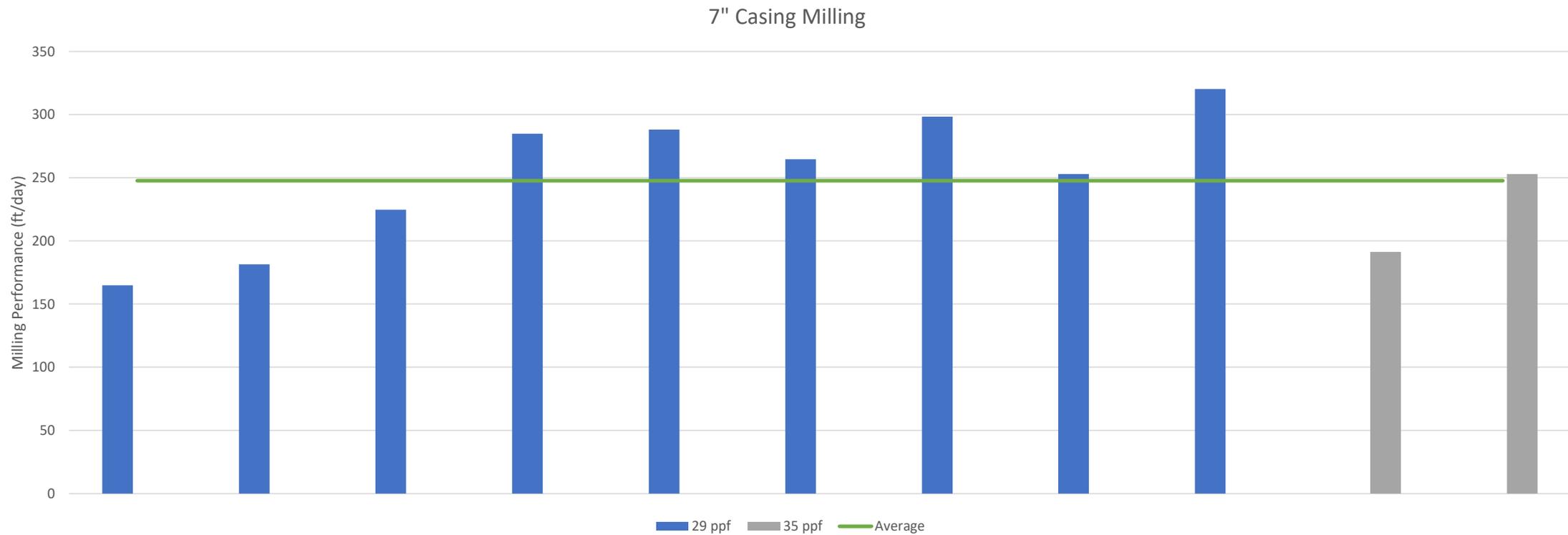
- Quality (rig, pipe, BHA, fluids, oilfield practice, other) is more important than rig capacity
- High-capacity units should plan alternative work in step 4 (slip& cut, PM, BOP test, LD pipe, other)



7" Casing Milling Performance

Key Message

- Average milling performance significantly better than expected
- World record set on final well – 2135 ft milled with one mill
- Heavier casing on two final wells (35 ppf) compared to the rest (29 ppf)



Ultimate Goal – Subsurface Containment Assurance

- Key focus to **improve** overall final risk outcome
- **Management System** securing cross-functional collaboration
- Improved & strengthened **Work Processes**
- Continue **pioneering** technology development & industry sharing

«**First to come, last to leave**»





**Thank you for
your attention!**