

# Estimated P&A- Norwegian Continental Shelf: 2022 - 2027

April 2022

Company	Estimated number of P&A 2022 → 2027	Estimated number of Slot Recovery 2022 → 2027	Estimated number of Sub Sea P&A 2022 → 2027	Contact person
AkerBP*	17	29	4 subsea P&A	Egil Thorstensen
ConocoPhillips	24	40	0	Birgit Vignes
Equinor	+/- 50 cessation	+/-70 pr. år	+/- 5 cessation	Tormod Fossdal
Neptune Energy	1-2 /year	0	0	Bjørn Schmidt
DNO Norge	3-5	0	subsea P&A	Grethe Lønø
Norske Shell	9	0	subsea P&A, LWI	Knut Hals
Repsol Norge	3	0	3	Øystein Østerhus
TotalEnergies	3	0	Subsea P&A	Johan Kverneland
Sval Energi	1	0	Subsea P&A	Stian Brevik
Wintershall Dea	+/-11	+/-20	0	Frode Angell-Olsen
Vår Energi	0	5	0	Jan Terje Svendsen

## Key technical challenges:

Subsea P&A, Platform P&A, Dual casing strings across P&A zone, Slot recovery, Rigless P&A, Verification of cement / formation outside casing, Removal of tubing / casing. Challenge to set 50m plugs, Tubing access/collapse, verification methods, corroded tubulars, cross-department. Through tubing PWC, Logging through two strings, Deformed casing/tubing COP do rig/DP based P&A. Key challenge is dual casing over P&A zone. Typically, 7" casing inside 9 5/8" csg. Also: See presentation "CasingDeformation" held in 2018

## Technical needs:

Dual string cross sectional plugging, Cutting/milling in large casing, Pull tubing, Logging challenges, PWC, Reliable and efficient barrier verification methods, Dual casing bond logging, Alternative plugging solutions, Rigless P&A

CoP: A dual string cross sectional technique which (dual string logging) can be verified or effective fishing of inner string.

\*Lundin merger with AkerBP