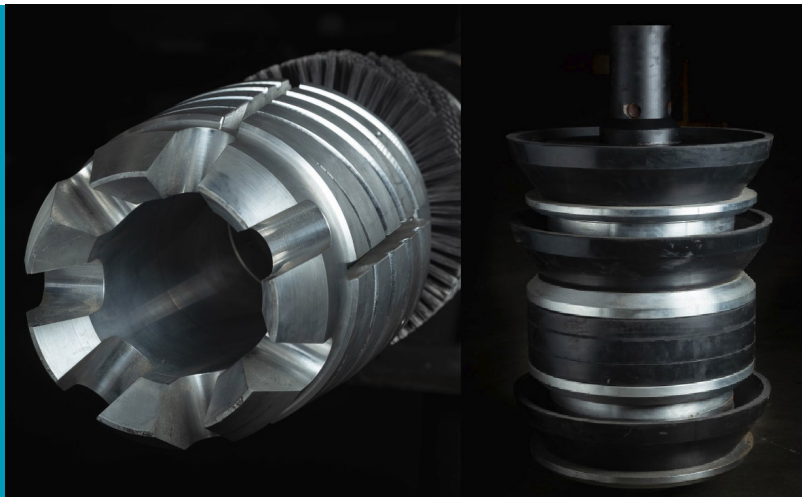
Expro Excellence

Expro saves more than 57 hours across P&A campaign with CX-2 Bridge Plug and CX-Enviroplug

Well Construction | AEON



Objectives and background

- As part of a wider plug and abandonment campaign, an operator required well bore clean up and plug and abandonment services from Coretrax, while minimizing environmental impacts
- Expro was mobilized by an operator working off the coast of Mauritania, North West Africa, in a multi-well abandonment campaign. Through deployment of both the Origin and Aeon product suites, the team offered support across wellbore clean up and abandonment operations

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- A combination of Expro technologies, including the Hi Pro Casing Scraper, Hi Pro Casing Brush, SP Magnet and CX-Junk Filter Sub, were deployed across the campaign as part of the wellbore clean up trip to ensure debris recovery was maximized before well abandonment
  - On all three wells, a tandem WBCU string was run to clean the 9-5/8" and 10-3/4" casings simultaneously prior to pumping a hi-vis pill and displacing the wells to NaCl brine
  - Across the three wells 19kg of wet metal fines were recovered, along with a solid piece of metal approx. 50mm in size which was recovered from well 2
- Following completion of wellbore clean-up activities, plugging and abandonment operations could then begin
- In each well, the team first deployed the CX-2 Bridge Plug, providing a solid and tested base for a cement plug which delivers improved efficiency and reliability. Unlike other mechanical barriers, the CX-2 features a release system which provides a slick stinger with a through-bore to enable subsequent cementing operations. This eliminated the need for a dedicated trip for cementing operations during the project
- From there, each well also saw deployment of a one-trip plug & perf system, utilizing a CX-2 bridge plug as a base along with a mechanical perforator, allowing multiple perforations to be created, without the use of explosives, in the same trip as setting a base plug for future operations. A total of 416 perforations were created across the campaign
- An environmental plug was also set in each well; a CX-2 bridge plug with CX-Superflow was used in two of the wells in the 13-3/8" casing and a CX-Enviroplug was run on the remaining well to provide a base for cement in the 20" casing
  - The CX-Superflow was run below the CX-2 bridge plug to eliminate the need for a dedicated scraper run following cut & pull operations
  - The CX-Enviroplug is a cementing plug used to provide a reliable base for cement in larger ID casing, which removes the complexity and restraints associated with other environmental barriers in big bore casings. With an open-ended cement stinger on release, the plug also allowed the operations team to cement during the same run
- The Drop Drift Cleaner was also used across the campaign to clean drill pipe ID following cementing operations

Value to the client

- Successful completion of complex work scope, resulting in excellent feedback and working relationship with client
- Across all three wells, 57.25 hours were saved by optimising operations to reduce the number of trips in hole through the removal of dedicated scraper and cementing runs across the campaign and optimizing plug and perforate string into a one-trip system

Cost effective



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