

Nigeria

Intercept® retrievable bridge plug penetrates sub-Saharan market for V0 temporary abandonment project

Collaborative effort leads to project success delivered with distinctive service quality and ZERO NPT/COPO

CHALLENGES

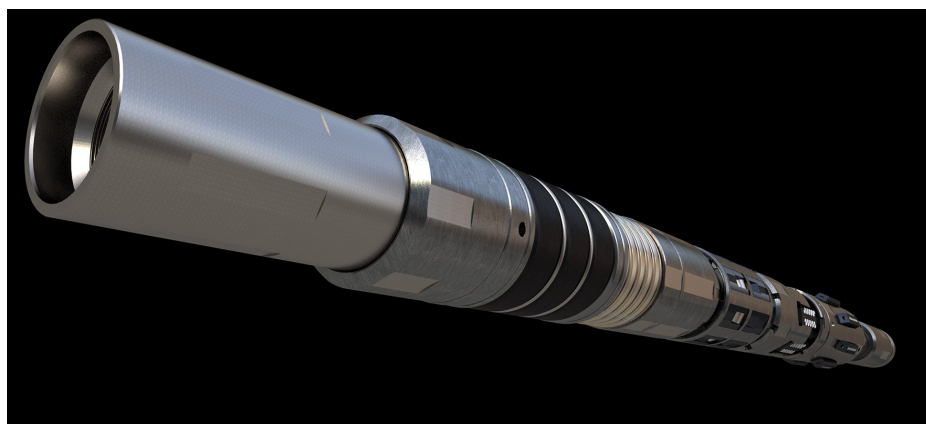
- Provide an API 11d1 V0-qualified retrievable bridge plug
- Source and mobilize equipment to meet operational requirements
- Train local personnel with tools and ensure competency before operations

SOLUTIONS

- Intercept® RBP
- Redeploy existing assets
- Provide competency training to shop and operational personnel

RESULTS

- Intercept RBP delivered, installed, and retrieved per operator requirements, with positive feedback on performance from the planning through execution phases
- First Intercept RBP run in sub-Saharan Africa
- First Intercept RBP run for the operator
- Norway personnel provided operational support
- Global team ensured competence and compliance throughout operation



HAL 124065

Overview

An operator in Nigeria required a V0-rated retrievable bridge plug (RBP) to provide a temporary isolation barrier for remedial work on a five-well campaign. Because of the short timeline to deliver equipment to Nigeria, and lack of tools available for transfer, the Halliburton global, regional, and country teams collaborated with the operator to gain a comprehensive understanding of their specific requirements and ultimately recommended the Intercept® RBP. During these collaborative discussions, a well-defined commercial strategy was developed, accompanied by detailed technical overviews and presentations to showcase product capabilities.

Upon receiving the operator's order, Halliburton promptly identified the appropriate equipment, initiated the redeployment process, and commenced the evaluation of training plans for both onshore and offshore personnel. The project was flawlessly executed, with ZERO non-productive time (NPT) or service quality (SQ) issues.

Challenges

Challenges faced during this project included having no Intercept® RBPs in the country or in the area, the lack of experience running the tool by both country personnel and the operator, and the short timeline for mobilization and installation into the first well.

Solutions

Halliburton proposed the inclusion of the Drill Tech® casing scraper in the running string of the permanent plug/packer. This cost-effective rental option creates no additional risk but provides the best opportunity to set and test tools on the first attempt. The Drill Tech casing scraper is a more robust solution to address residual cement/debris on the casing ID. This allows the operator to clean the casing for logging and future packer setting areas in the same trip. The cost benefits of a short-term casing scraper rental compared to the purchase of a drillable brush are tangible.

Results

Through the collaborative efforts of the regional, country, and global teams, Halliburton accomplished the inaugural Intercept RBP run in sub-Saharan Africa. Despite the logistical and training hurdles imposed by COVID-19 restrictions and safety protocols, the equipment was delivered, installed, and retrieved seamlessly without disruptions or concerns regarding NPT or SQ. The Intercept RBP was successfully installed at the required depth set. From planning to execution, the operations surpassed operator expectations, leading to additional Intercept RBP runs throughout the campaign.

Well suspension days overview

WELL NAME NO.	RUN IN HOLE DATE	SET DEPTH (FT)	RETRIEVAL DATE	NO. OF DAYS IN WELL
Well 1	19-Aug-22	5,552	21-Aug-22	2
Well 2	22-Sep-22	5,707	17-Nov-22	56
Well 3	09-Oct-22	5,480	04-Dec-22	56
Well 4	28-Oct-22	5,525	31-Dec-22	64
Well 4 Re-install	09-Jan-23	5,579	22-Feb-23	44
Well 5	01-Feb-23	5,520	05-Feb-23	4

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