

Case Study

DrillRDillo™ Drilling Scraper

Integrity and efficiency combined

34 hours of operations saved
10 hours of proven integrity
Extremely robust in challenging environments

Challenge

The client was looking for a solution to drill a highly deviated deep well (14,000 ft) through numerous depleted zones, which increased the risk for losses and differential sticking. In addition, there was also a requirement to scrape a lower completion packer setting depth inside the 9-5/8" casing.

Solution

OWS supplied the DrillRDillo (DRD), a 360° contact robust scraper tool that withstands harsh drilling conditions. With the DRD in the BHA and the knowledge that this expandable scraper has been thoroughly tested under extreme drilling conditions, the client can focus entirely on drilling this challenging well, and also save a dedicated WBCU trip.

Execution

While drilling the well to total depth, the client experienced a loss of signal with MWD tools and decided to pull out of the hole. An overpull of 25,000 lbs was observed due to differential sticking. They activated the drilling jar with 25,000-30,000 lbs overpull to free the pipe, but the pipe was stuck. Consequently, they attempted to rotate the pipe with a torque limit set at 30,000 ft/lbs with no success, so they continued jarring for the next 10 hours.

The team decided to pump and soak the well with deep clean pills. While working the string, they finally managed to get it free.

Finally, having the DRD in the string, the client executed all desired contingency plans to free the drilling BHA. We managed the full operations safely with zero incidents and completed the job successfully.

Results

We saved the client 34 hours of dedicated WBCU operations with approximate value of \$375,000.

During the 10+ hours of jarring operations, the DRD scraper remained in dormant mode.

The DrillRDillo Expandable Scraper returned to the surface in good condition.

The DrillRDillo offers clients an expandable casing scraper that does not limit their drilling operations even in the harshest conditions.



Location: Malaysia
24/06/2021



JOB DATA

On/Offshore	Open Hole	Section Length	Well Trajectory
Offshore	8 1/2"	14,506 ft	Horizontal

CASING SPECIFICATION

9 5/8" - 53.5 lbs/ft P-110 Vam Top

DRILL OUT PERFORMANCE

Bit	Duration	Parameters
8 1/2" PDC	140 hours Time Exposed to Jarring: 10 hrs	Avg ROP of 150-200 ft/hr 150-180 rpm with 600 gpm



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