

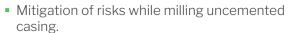
An Outstanding Pilot Milling Performance in Brunei Results in > \$2M in Cost Savings

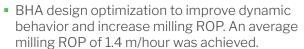
A step change in total meterage milled and a ROP improvement of 182% compared to offset data was achieved. The operational rig time was reduced by $9\frac{1}{2}$ days.



An optimization of milling performance demonstrated.

The Wellbore Integrity Solutions (WIS) Red Baron team supported the customer effectively in the abandonment of two wells. Pilot milling performance was highlighted as a key success in both wells, with a step-change in results when compared to competitor offset data. Operational planning, proven procedures and a robust risk assessment all contributed to the results:





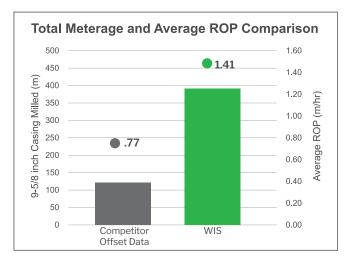


In addition to the significant time and rig cost savings realized, the corresponding emissions reduction was also considerable, as illustrated in ESG Operational Efficiency graphic.





Photos 1-3 show the mill wear after the pilot milling run.





CHALLENGE

A customer in Brunei required a total of 389m of 95% inch casing to be milled in two wells. Uncemented casing increased the milling operational risk.

SOLUTION

- Rigorous planning, procedures and risk assessment.
- An optimized pilot milling BHA design with Red Baron pilot milling technology.

RESULTS

- A successful milling operation with no non-productive time (NPT).
- An improvement of 182% in overall ROP.
- A rig time reduction of 9 ½ days and a cost savings for the customer of > \$2M.
- Significant reductions in emissions generated.

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