

CASE STUDY

Improving Drilling Performance Through Systematic Analysis of Historical Data



✓ The Problem:

A major US Drilling Company with operations in West Central Canada, was concerned that it had access to a rich drilling database which was largely unused in any significant manner to shorten learning curves, to promote drilling efficiency and reduce overall drilling costs.

✓ The Solution:

The senior drilling management group decided to find a drilling data analysis company to identify performance gaps supported by a drilling analysis tool which could identify areas for improvement and provide the impetus to reduce overall drilling costs.

✓ The Implementation:

Genesis Drilling provided a drilling analysis tool and knowledge management application which identified drilling problems, improving drilling performance through the systematic analysis of historical data and the application of suggested solutions.

Each phase hole was scrutinized to identify “removable time” (non-productive time) as the cause of the gap between the BCT (Best Composite Time) and average field performance. The drilling process for each well was then broken down into phases in accordance with the hole sizes. Each phase was subsequently broken into its component operations. Target times, based on the best-ever performance achieved for each component operation, were established for all the operations.

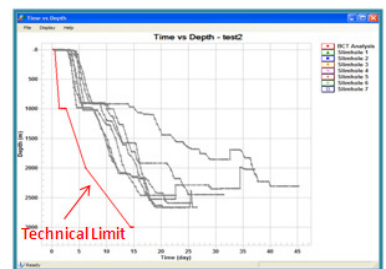
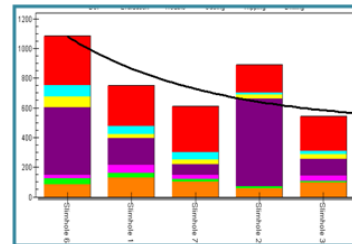
Target times for individual component operations were then provided as Best Composite Time (BCT) to aim for. The benchmarks had then been set.

✓ The Result:

Genesis Drilling provided a methodology which resulted in well time estimations based on optimum performance to date, setting benchmarks for the “perfect well” possible with current technology and operational practices.

Genesis Drilling provided the basis for an average well cost reduction of 15% to the tune of CAD\$7.3M.

Genesis Drilling’s methods of measuring performance and identified areas for improvement was the key process in achieving these results



✓ The Tool used:

Genesis Drilling

✓ About Genesis Drilling:

Genesis Drilling provides the capability to capitalize on the utilization of historical data to improve drilling success ratios by identifying potential areas of improvement for future drilling operations.

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