

## DSI's primary solids control optimization system saves major E&P operator over \$205,000 USD per 17-1/2" hole section in Pakistan

- Derrick® Hyperpool® alone saves over \$67,000 USD
- DSI's primary solids control optimization system combined with Hyperpool saves over \$205,000 USD

### Background

A major Pakistani exploration and production operator replaced existing shakers with Hyperpools on a rig drilling in the Adhi Field located in the Pothwar region of Pakistan. With an interest in saving overall cost, the operator employed DSI's primary solids control optimization system engineer to examine the cost savings associated with reducing the low gravity solids percentage, dump and dilution rates, mud treatment, and whole mud losses to the shakers during the challenging 17-1/2" hole section.

### Solution

Utilizing real time data analysis, DSI's optimization engineer was able to optimize shaker performance through a data acquisition process. He also determined what API RP 13C compliant screens to utilize on the high capacity Hyperpool shakers throughout the 17-1/2" interval that would provide the maximum solids removal efficiency while controlling whole mud losses.

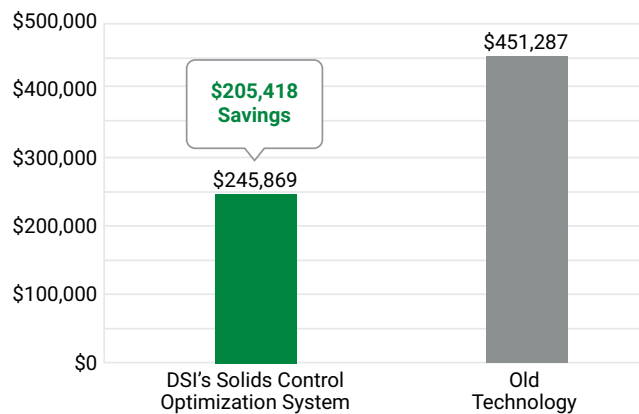
The Hyperpool shakers were able to screen 2-3 API screen sizes finer than the previous rig shakers and drastically reduced whole mud losses. The Derrick Hyperpool combined with the solids control optimization system analysis and API compliant screens, reduced whole mud loss by over 1.1 bbl/meter drilled. The daily drilling fluid additions for the interval were also reduced by 3.9 bbl/meter drilled, resulting in an overall savings of nearly 12,000 bbl for the 1,987 m interval.

### Conclusion

The high capacity Hyperpool shakers, with their bypass eliminating screen compression system, provided optimal solids removal efficiency and saved the operator over 12,000 bbl in drilling fluid throughout the 17-1/2" hole section. This resulted in an average cost savings of over \$205,000 when compared to similar offset hole sections.

### Savings from DSI's primary solids control optimization system

Major national E&P operator in North Pakistan – cost savings with Derrick technology & DSI's primary solids control optimization system



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