

Hyperpool® Shakers save major operator \$261,384 in four well study in South Texas

- Saved operator on average \$65,346 per well
- 15% dryer oil on cuttings than the previously used drying shakers

Objective

Analyze drilling parameters associated with efficient solids control by replacing two KING COBRA™ flow line shakers with two Hyperpool® shakers and omitting the use of the two KING COBRA drying shakers and a KING COBRA mud cleaner on a land rig drilling for a major operator in South Texas. Our objective was to lower dilution costs, decrease percent low gravity solids (LGS) concentrations and improve cuttings dryness. The OBM section evaluation included: dilution volume, percent wet weight oil on cuttings (OOC), LGS trend.

Drilling Parameters

Each well was designed to incorporate two casing strings. The OBM section consisted of 8.75" hole diameter and 10,000-12,000 ft depths interval. Mud weights ranged from 11.5 lb/gal to 14.0 lb/gal.

Results

- The Derrick® Hyperpools reduced the dilution requirement for the two-string well by 25% as shown in figure 2 resulting in an average well savings of \$57,575 in dilution.
- The Derrick Hyperpools at the flow line averaged 15% dryer oil on cuttings than the previously used drying shakers.
- Low gravity solids concentrations averaged 1.8% by volume lower than previous wells with no additional dilution required.

Conclusion

The Derrick Hyperpools saved the operator on average \$65,346 per well (\$5.29 per foot) in overall drilling fluid, solids handling, and operating cost.

Figure 1. Oil on Cuttings

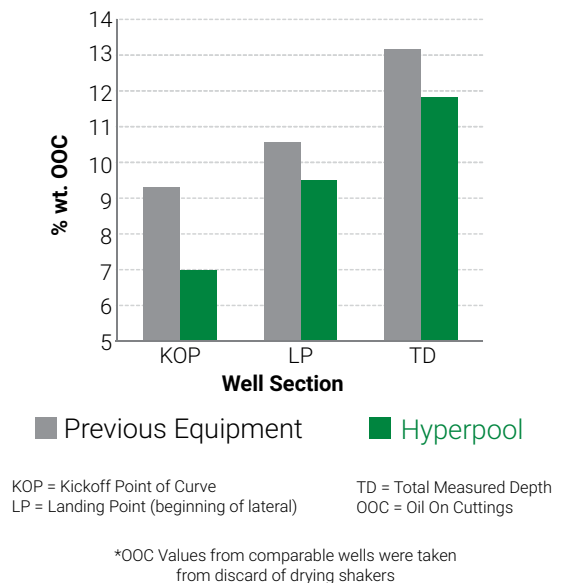
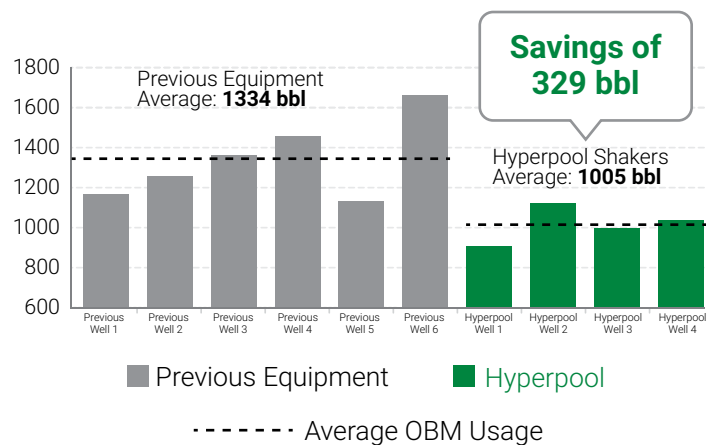


Figure 2. Oil Based Mud (OBM) Usage



For more information, please contact your local Derrick sales representative.

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