

Derrick® Hyperpool® greatly enhances solids removal with ability to run finer screen sizes up to API 230

- Enabled operator to utilize finer API screen sizes
- Reduced onsite inventory from eight API screen sizes down to four

Objective

Increase solids removal by utilizing finer API screen sizes. This reduced dilution requirements and optimized both penetration rates and flow rates which combined reduced operating cost for a major operator in Saudi Arabia.

Drilling Parameters

Table 1 illustrates the handling capacity increase with the ability to screen up to seven API screen sizes finer under similar drilling conditions.

Conclusion

The operator recognized immediate cost savings as a result of the Hyperpool® shakers and their ability to screen up to seven API screen sizes finer while reducing onsite inventory from eight (8) API screen sizes down to four (4).



Table 1: Handling Capacity Increase

DRILLING CONDITIONS				PREVIOUS RIG OWNED SHAKERS	HYPERPOOL SHAKERS
HOLE SIZE (IN)	MUD WEIGHT (PPG)	ROP (FT/HR)	FLOW RATE (GPM)	API SCREEN SIZES USED	API SCREEN SIZES USED
34	9.2	100-150	1300	50	120
28	9.2	100-150	1600	50	140
22	9.2	100	1600	60, 80	200
16	10.5	50-100	1100	70, 100, 120	200
12	13	50	950	60, 100, 170, 200	230
8-3/8	12.5	50	650	60, 100, 170, 200	230

To demonstrate the handling capacity of the Hyperpool shakers, flow was halted to two of the Hyperpools during the 6 inch hole section and 1100 GPM was distributed over one shaker with API 200 screens. The Hyperpool was still able to maintain proper operating parameters with no loss of fluid over the shakers.

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

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