

BaraMesh® Shaker Screens Outperform Competitor, Saving USD 10,000 Per Well

SOUTH OMAN

CHALLENGE

Overcome high cost for solids control:

- » Frequent replacement of competitor's shaker screens
- » Excessive mud loss over the shakers

SOLUTION

BaraMesh® shaker screens for superior performance:

- » Improved conductivity to prevent screen blinding
- » Higher solids removal efficiency
- » Increased screen life

RESULTS

BaraMesh screens saved USD 10,000 per well:

- » Reduced mud loss over end of shakers, saving USD 8,000
- » Reduced screen consumption, saving USD 2,000
- » Baroid awarded screen provision on five rigs

OVERVIEW

An operator in south Oman was faced with several issues related to solids control efficiency. Utilizing BaraMesh® shale shaker screens proved to be the optimal solution for the operator to increase performance and reduce costs.

OPERATOR EXPERIENCES EXCESSIVE SURFACE MUD LOSS, FREQUENT SCREEN FAILURE

The competitor's shaker screens required frequent replacement, and high volumes of drilling fluid were lost at the surface due to poor screen performance. Both these factors increased operational costs unnecessarily.

BAROID TEAM INSTALLS BARAMESH SHAKER SCREENS FOR PERFORMANCE TRIAL

The Baroid team recommended installing BaraMesh shale shaker screens to optimize drilling fluid performance. BaraMesh screens feature high-performance, triple-layered, durable mesh technology that is designed to maximize conductance and solids removal efficiency.

During the initial performance comparison, BaraMesh high-performance API-120 screens were fitted to all three rig shakers while drilling the 12-1/4-inch and 8-1/2-inch sections.

	12-1/4-Inch Interval	8-1/2-Inch Interval
Footage Drilled (ft)	1,873	4,316
Average Penetration Rate (fph)	67	83
Average Flow Rate (gpm)	900	650

The screens were inspected at 24-hour intervals. No damage/blinding was reported when using BaraMesh screens, and no screen replacement was needed. The BaraMesh screens were able to handle the rig's full circulation rate without losing drilling fluid over the discharge end of the shaker. As shown in the rigsite photos below, the screens remained in excellent condition after heavy use.

SHAKER SCREENS SHARPLY REDUCE SCREEN COSTS AND MUD LOSSES, SAVING USD 10,000 PER WELL

Compared to previous original equipment manufacturer (OEM) screen usage, it was clear that the BaraMesh screens reduced the operator's screen costs by 30 percent per well with estimated savings of USD 2,000 per well on screens alone.

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An evaluation of previous surface mud loss data confirmed that the BaraMesh screens also reduced losses at the shakers in the 12-1/4-inch and 8-1/2-inch sections by 15 percent and 53 percent, respectively. This resulted in an estimated additional savings of USD 8,000 per well.

The combined savings of approximately USD 10,000 per well proved the value of the BaraMesh screens. They delivered superior technical performance while reducing operational costs. Based on these results, the operator subsequently awarded Baroid with shaker screen provision on five rigs.

BaraMesh® Screen Performance Trial: Over 6,000 Feet (1,829 Meters) Drilled



12-1/4-inch section

HAL121616



8-1/2-inch section

HAL121617

No damage or blinding after drilling both intervals with the same set of BaraMesh® screens.

**SUPERIOR
PERFORMANCE
SAVES
USD 10K
PER WELL**

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