

BRANDT™ VENOM™ Premium X-tended Life (PXL) Screen Improves Shaker Screening Durability While Drilling Faster in the Eagle Ford

Challenges

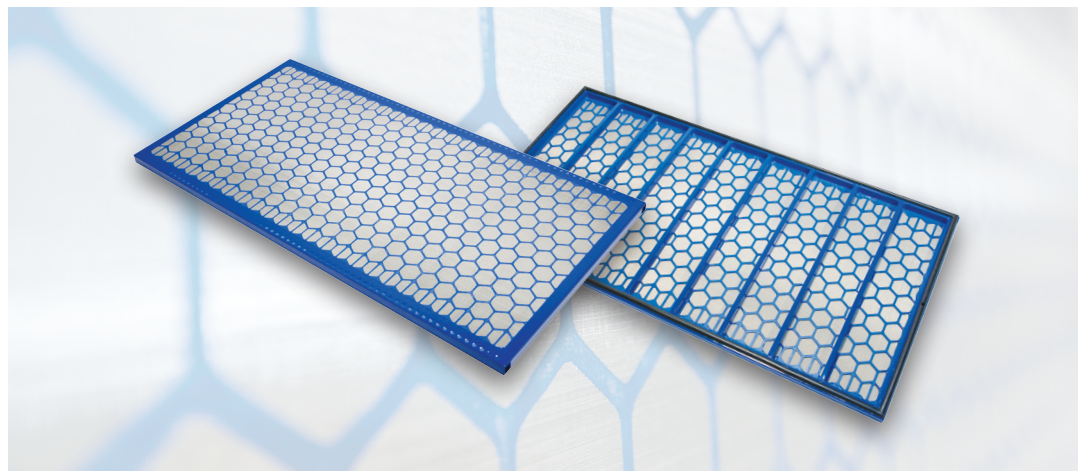
- Screen failure with existing shaker screens when ROP increases
- Excessive screen replacement costs while drilling faster in Eagle Ford formations
- Compromises between screening finer while maintaining better durability and better conductance
- Limited time available for rig hands to service shaker screens

Well Information

- Rig type: Land rig in Eagle Ford
- Major operator
- Drilling fluid type: Oil-based mud
- Mud Weight: 11.5 lbs/gal

Solution & Results

- VENOM Premium X-tended Life (PXL) screens have enhanced screening capacity that allows for faster drilling in the Eagle Ford while also screening finer and controlling drilled solids in the mud system.
- The VENOM PXL screen is engineered as a durable screen with greater than two times the screen life of our competitors screens.
- VENOM PXL screens provide customers with an alternative screen solution providing higher durability and higher flow conductance with finer API values.
- VENOM PXL screens are the best conductance screen available in the market offering over 60% better conductance values across all API levels when compared to competitors.



The operator on this project was experiencing a high usage of screens and was looking for a solution to improve the life of their shaker screens, as well as reduce the amount of time rig technicians spend changing damaged screens. Unfortunately, in most cases, using more durable screens also means a sacrifice in conductance. Historically, coarser screens have better durability and conductance than finer screens, but coarser screens do not remove drilled solids as efficiently as finer screens.

Although the formations found in Texas allow operators to drill faster, these formations also cause an undesirable rate of failures with very fine API number screens. Based on customer feedback, it was clear the operator was not satisfied with screen durability due to the high percentage of drilled solids returned to the mud system trending higher the deeper the well was drilled. The customer's solids control equipment consisted of three KING COBRA™ VENOM shakers. Because of the VENOM PXL screens success in similar applications, we offered the VENOM PXL screen to our client as a solutions to their existing challenge. In order to test screen life, the VENOM PXL screens were placed in a direct head-to-head comparison to the customer's current screens in the Eagle Ford.

The results from the tests showed that the PXL screens lasted two times longer than the client's current shaker screens while still maintaining the required conductance. For our client, this meant less screen changes and the ability to drill longer and faster, as well as more time for the rig hands to focus on other project tasks.

The operator on this project was quite satisfied with the results of the screen trial and the VENOM PXL screen has demonstrated to be a successful solution. VENOM PXL screens have the best combination of durability and conductance at the finer API levels. NOV is pleased to offer alternative OEM screens that provide our clients with real screen solutions that are cost effective options for the Eagle Ford.

Solutions like the VENOM PXL demonstrate that BRANDT screens are a breakthrough for our industry. Operators are now able to screen finer when ROP increases, ensuring that smaller drilled solids are removed from the mud system. The VENOM PXL screen has fewer screen change-outs when compared to our competitor's products.

To learn more about how to improve your drilling efficiencies and costs, you can contact your nearest NOV representatives.

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