

Durable VSM 300™ PXL Screen Makes Grade in The Netherlands with Finer Screening, Longer Life

Challenges

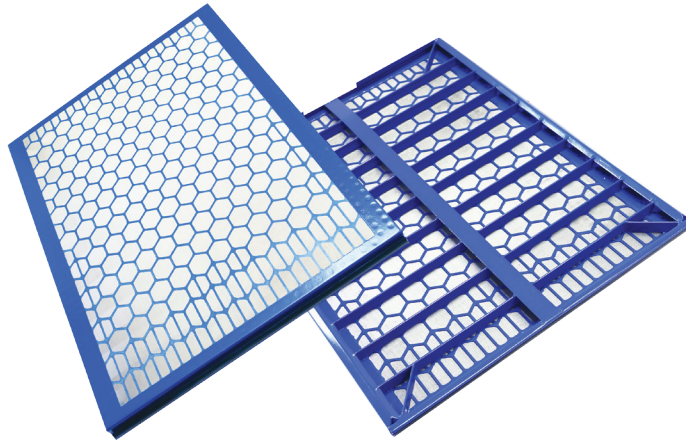
- Increases in shaker screen failures while drilling sandstone/ claystone sections
- Unacceptably high costs of screen replacements
- Operator forced to sacrifice finer screening for increased durability and enhanced conductance
- Rig Crew challenged with constantly servicing, replacing prematurely worn screens

Well Information

- Location: Onshore, The Netherlands
- Operator: Major operator
- Targeted Formation: Claystone / Sandstone
- Drilling Fluid Type: Oil based mud
- Drilling Fluid temperature: 60°C / 140°F
- WSS FluidControl equipment: Four BRANDT™ VSM 300 shakers

Solution & Results

- WSS FluidControl recommended fitting the VSM 300 shakers with the BRANDT VSM 300 Premium X-tended Life (PXL) screens.
- Upon replacement, the VSM 300 screens exhibited three times longer screen life.
- The innovative screens delivered more than 60% higher flow conductance with finer API mesh values.
- The VSM 300 PXL screens allowed faster drilling rates while screening finer to control drill solids in the mud system.



The operator's satisfaction with the performance of the VSM 300 PXL shaker screens in a challenging application further reinforced BRANDT as the provider of choice, with industry leading OEM screens that deliver the utmost in durability, conductance and enhanced cut-point for all solids separation requirements.

The operator encountered unacceptably high shaker screen failures while drilling the challenging sandstone and claystone formations onshore The Netherlands. The rig was equipped with four VSM 300 shakers, which owing to the project requirements, were fitted with ultra-fine API screens. The operator was concerned that with the API cut-point levels required for finer screening, durability would be sacrificed. Those concerns were borne out as the durability of the conventional fine-mesh screens left much to be desired, resulting in continual premature failures and appreciably higher replacement costs. Moreover, the constant replacing of prematurely worn screens frustrated the operator's requirement for finer screening while drilling the sandstone/ claystone intervals. The situation called for an alternative screen that would deliver both extended life and improved conductance capacity throughout the API range.

As the operator preferred to employ an OEM screen, BRANDT recommended its VSM 300 Premium X-tended Life (PXL) Screen to meet the daunting demands of the sandstone and claystone formations. The innovative VSM 300 PXL screens are designed for increased durability while also maintaining conductance at a comparatively better cut-point at each API level, especially with respect to the finer mesh versions.

The VSM 300 PXL screen proved to be the ideal solution, delivering screen life three times higher than the previous screens, while maintaining conductance with consistent removal of finer solids. Consequently, the operator's screen replacement costs decreased considerably and rig hands were freed up from constant screen change-outs to focus on other rigsite responsibilities. More importantly, the client did not have to sacrifice fine solids separation for extended screen life. At the end of the day, the enhanced screening capacity of the durable VSM 300 PXL screens cleared the way for higher ROP by controlling even the finest drill solids in the mud system.

To learn more about how the VSM 300 PXL shaker screens can help you meet your drilling and solids separation needs, contact your nearest WSS FluidControl representative.

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