DERRICK® EQUIPMENT COMPANY

Derrick DX™ Screens Outperform Southwest XR Screens

Offer Superior Performance and Saves Money

Operator: **Coastal Oil & Gas**
Contractor: **Helmerich and Payne**
Location: **Lavaca County**
Date: **November 10,1999**

The Goal

In an effort to determine which screens removed the most drilled solids, a recent test was performed comparing the Derrick DX™ 210 and Southwest XR 210 screens.

Drilling Parameters

All test data was gathered from a single hole section utilizing identical Flo-Line Cleaner 2000 shakers arranged side-by-side on the flow line.

Drilling Parameters

Screen Type	Hole Size (Inches)	Mud Weight (PPG)	ROP (ft/Hour)	Mud Type
Derrick DX™ 210	**12.25**	**10.6**	**28**	**OBM**
Southwest XR 210	12.25	10.6	28	OBM

(See Mud Report on the back page)

Mud Report

FLC 2000 Equipped with	Solids Removal for 3 Shakers (BBL/Day)	Solids Removal per Shaker (BBL/Day)	Solids Removal per Shaker (BBL/Hour)	Mud Cost per BBL
Derrick DX™ 210 Screens	**129**	**43**	**1.78**	**38**
Southwest XR 210 Screens	120	40	1.68	38

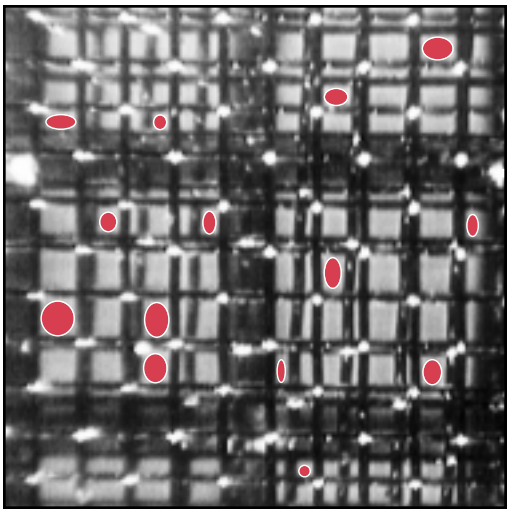
Dilution Cost Analysis

For each shaker, the Derrick DX screens removed an additional 3 BBLS of solids per day. If all three shakers were to run Derrick DX screens, a total of 9 BBLS of additional solids would be removed per day. If the same three shakers were to run Southwest XR screens, an additional 144 BBLS of drilling fluid would be required to dilute the solids. At a cost of $38 per barrel, the incremental mud costs for using XR screens would amount to $5,472.

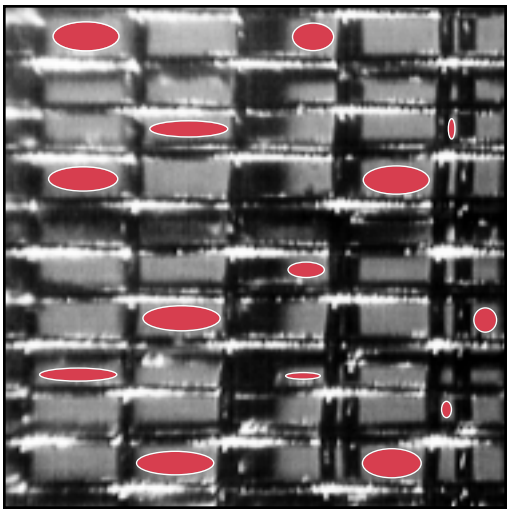
Conclusion

API RP-13E compliant Derrick DX screens remove more solids than Southwest XR screens; thus decreasing mud and dilution costs. Significantly larger particles are able to pass through the XR screen compared to the DX screen.

Derrick DX™ 210



Southwest Wire XR 210



(both photos magnified 500X's)

An Integral Part of the High G Solution

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