



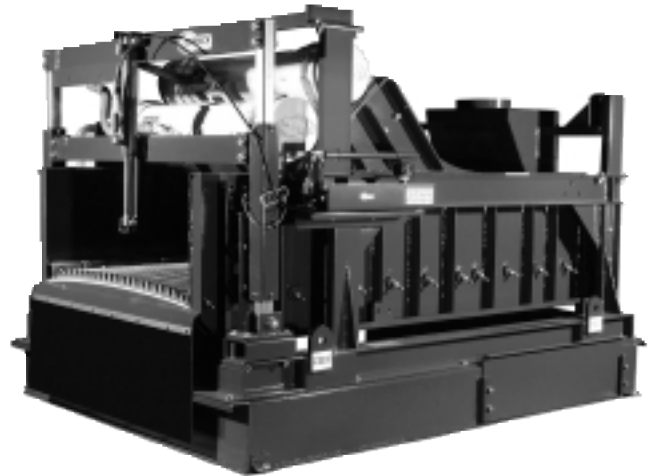
FLC 2000™ 3 - Panel

Powered by SUPER G™ Vibrators

POWERED BY



The Derrick FLC 2000 3-panel shaker is powered by two Super G vibrating motors which provide a continuous linear vibratory force of 7.0 G's. This increase in G force at the screen surface has been found to dramatically improve the conveyance rate of a shale shaker, allowing for the removal of more tons per hour of cuttings. When equipped with Derrick's patented three-dimensional Pyramid Plus screens, the FLC 2000 3-panel offers 35.7 square feet of screen area available for screening as per API RP-13E. Two FLC 2000 3-panel shakers powered by Super G motors can be used in place of three standard linear motion shale shakers. When coupled with Derrick's innovative Flo-Line Primer, the resulting system is capable of replacing three traditional stacked or cascade shakers. This combination offers the latest in high performance solids control equipment while providing a complete package that will fit in existing or reduced rig space.



Derrick FLC 2000 3-panel equipped with Super G vibrating motors and patented Pyramid screens.

Field Data

The attached field data reflects the performance capability of a single Derrick FLC 2000 3-panel powered by SUPER G motors operating directly on the flow line.

Screen Test	Mud Discard (gpm)	Solids Discard (gpm)	Solids Generated (gpm)	Circulating Rate (gpm)	R.O.P. (ft/hr)	Hole Size (inches)	Mud Weight (lb/gal)
Derrick PMD+™ (2) PMD (1) DX 175 <i>(Mud Type: water base)</i>	2.82	1.69	2.38	560	31	10.63	17.8
Derrick PMD™ DX™ 210 <i>(Mud Type: water base)</i>	1.62	1.39	2.45	525	50	8.5	10.4
Derrick PMD DX 210 <i>(Mud Type: synthetic oil base)</i>	3.44	2.41	4.9	224	100	8.5	15

Test Results

TEST #1

A single FLC 2000 3-panel was fitted with two PMD+ and one PMD DX 175 screen panels and operated at 5 degrees uphill. While drilling the intermediate section, having a hole size of 10.63" and a penetration rate of 31 ft/hr, 2.38 gpm of drill solids were circulated to the surface by 560 gpm of 17.8 lb/gal water based drilling fluid. This yielded a circulating rate of 563 gpm. The FLC 2000 3-panel was able to remove 71% (1.6896 gpm) of the total drill solids reporting to the surface while processing the full circulating rate (563 gpm).

TEST #2

A single FLC 2000 3-panel was fitted with three PMD DX 210 screen panels and adjusted to 5 degrees uphill. During the production section, with a hole size of 8.5" and a penetration rate of 50 ft/hr, 2.45 gpm of drill solids were circulated to the surface by 525 gpm of 10.4 lb/gal water base drilling fluid for a total circulating rate of 528 gpm. The FLC 2000 3-panel was able to remove 57% (1.39 gpm) of the total drill solids reporting to the surface while processing the full circulating rate.

TEST #3

A single FLC 2000 3-panel was fitted with three PMD DX 210 screen panels and adjusted to 5 degrees uphill. During the production section, having a hole size of 8.5" and a penetration rate of 100 ft/hr, 4.9 gpm of drill solids were circulated to the surface by 224 gpm of 15.0 lb/gal synthetic oil base drilling fluid for a total circulating rate of 229 gpm. The FLC 2000 3-panel was able to remove 49% (2.41 gpm) of the total drill solids reporting to the surface while processing the full circulating rate.

An Integral Part of the High  Solution



15630 Export Plaza Drive • Houston, Texas 77032
Phone: (281) 590-3003 (800) 873-3002 • Fax: (281) 590-6187
www.derrickequipment.com



PYRAMIDTM SCREEN