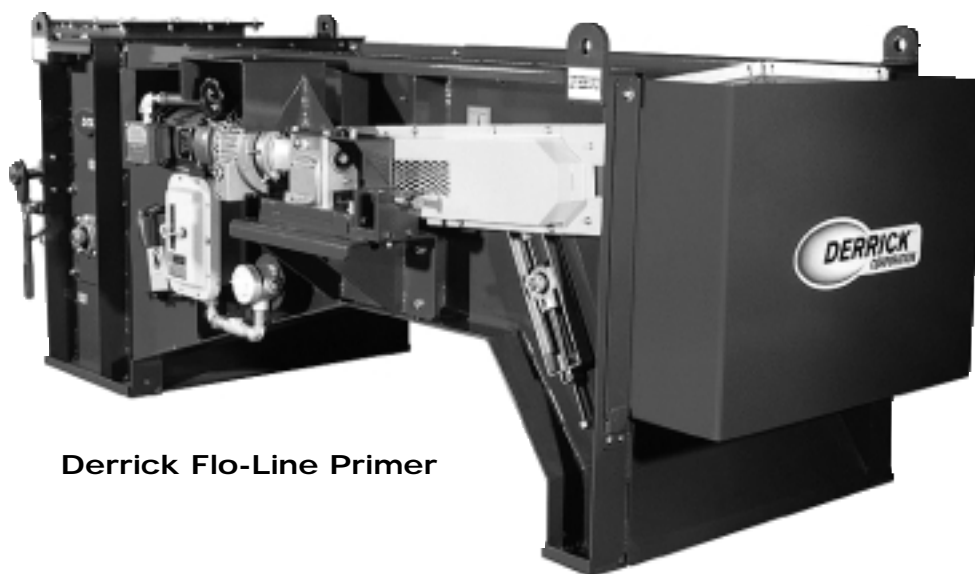




Derrick Flo-Line Primer on Cliffs Rig #156



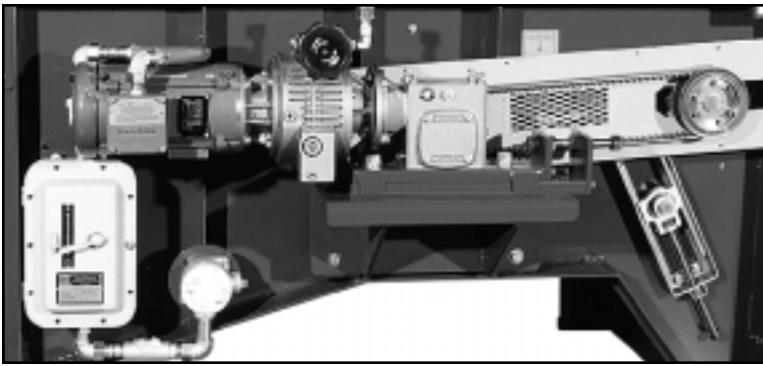
Derrick Flo-Line Primer



Cliffs #156 began drilling in the Gulf of Mexico during April of 1999. In order to process the hydrated clays (gumbo) and large drilled cuttings that are commonly drilled in this region, Cliffs installed a Derrick Flo-Line Primer for use as the first line of defense in their solids control system. The Flo-Line Primer utilized a variable speed motor and a 10 mesh synthetic screening belt to successfully convey these solids to discharge before they reached the downstream shale shakers.

Prior to spudding in, Cliffs was concerned that a 10 mesh belt would be too fine to process the initial drilled solids. Once drilling began, however, the Flo-Line Primer handled the complete flow rate so well that the rig decided to run the 10 mesh belt for the duration of the well.

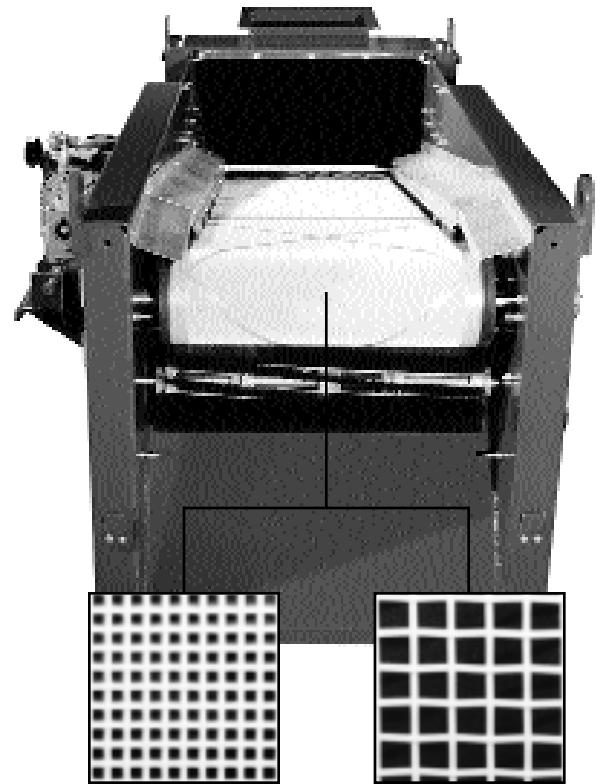
(see back for results)



1.5 Horsepower Motor and Variable Speed Drive



Flo-Line Primer removing large drilled cuttings at 10 mesh



10 mesh screening belt

5 mesh screening belt

The Results

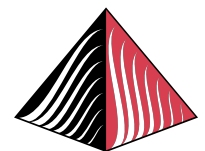
Hole Size (inches)	17	12	8
Feet Drilled	3,010	4,350	1,680
Formation Type	Gumbo	Gumbo	Soft Clay
Flow Rate (gpm)	820-835	600-688	492-500
Hours Run	55	154.5	56
Mud Weight (ppg)	8.6-9.6	9.8-12.2	12.4-13.8
Drilling Hours	49	92.5	46
Belt Size (mesh)	10	10	10

- The Primer successfully removed all the hydrated clays and large drilled cuttings at the flow line.
- The Primer processed 100% of the flow rate without any whole mud losses.
- The Flo-Line Primer utilized the same 10 mesh synthetic screening belt for a total of 266 running hours.
- The only work performed on the Primer consisted of periodic washing of the screening belt with water.

An Integral Part of the High **G** Solution



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