



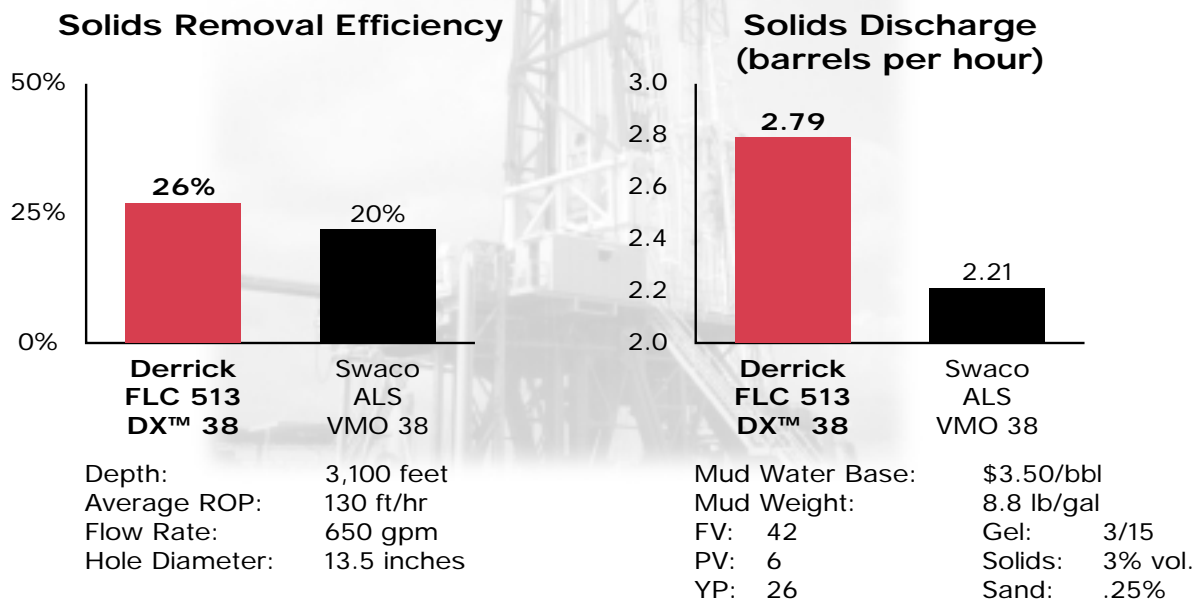
## Derrick FLC 513 vs. Swaco ALS

The test was conducted by Derrick for a major drilling contractor on a well in Jefferson County south of Beaumont, Texas. The superiority of the Derrick Flo-Line<sup>®</sup> Cleaner 513 was shown in the results obtained by tests conducted during each section of the well. The results are shown below.

### Testing Procedures

Each shaker was screened to process 100% of the rigs circulating rate. Discard samples were taken and timed. Solids discard rates were recorded. The solids removal efficiencies were calculated as per API RP-13E.

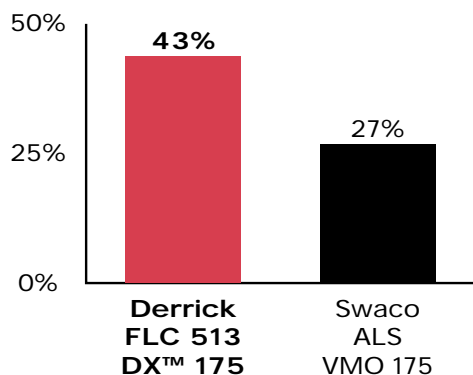
### Test #1



*(Test 2, 3 and Conclusion on back page)*

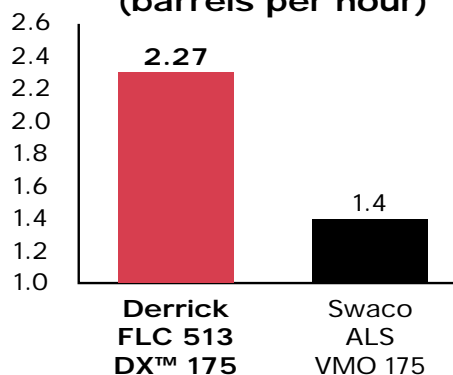
## Test #2

### Solids Removal Efficiency



Depth: 6,735 feet  
 Average ROP: 100 ft/hr  
 Flow Rate: 650 gpm  
 Hole Diameter: 6.5 inches  
 Steady Drilling

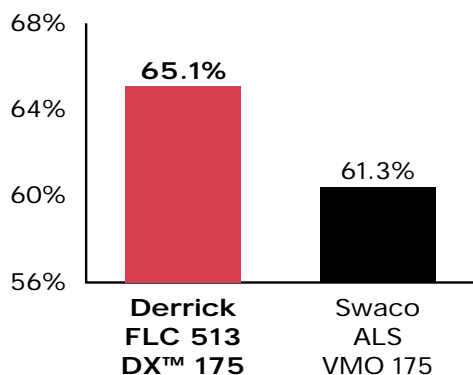
### Solids Discharge (barrels per hour)



Mud Water Base: \$5.50/bbl  
 Mud Weight: 9.2 lb/gal  
 FV: 39  
 PV: 7  
 YP: 9  
 Solids: 5.4% vol.  
 Sand: Trace

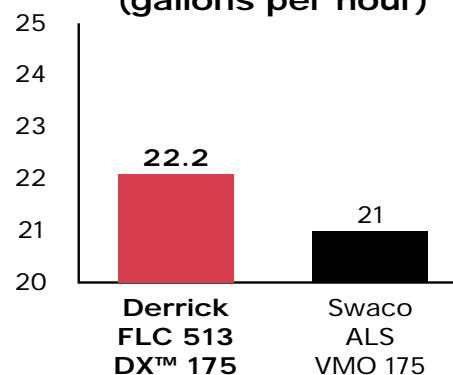
## Test #3

### Solids Removal Efficiency



Depth: 9,660 feet  
 Average ROP: 225 gpm  
 Flow Rate: 225 gpm  
 Hole Diameter: 6.5 inches  
 Steady Drilling

### Solids Discharge (gallons per hour)



Mud Water Base: \$45/bbl  
 Mud Weight: 16.4 lb/gal  
 PV: 23  
 YP: 11  
 Solids: 22% vol.  
 Sand: Trace

### Conclusion:

For each of the three tests conducted the Derrick FLC 513 removed more drilled solids per day. The FLC 513 also achieved a higher solids removal efficiency during each test.

The Derrick FLC 513's average solids discard was 9 barrels per day more than the discard from the SWACO ALS. The Swaco ALS's 9 barrels of unremoved solids could have resulted in 171 bbls/day of excess dilution if it were not for the superior performance of the Derrick FLC 513.



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