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Big Water Test Data

Liquid Trans Hydro Mini
Pump Performance Test #2
Winfield, Maryland
May 2004

Facts & Figures...

- During May 2004, Larry Davis, VP of GBW Associates, LLC led a series of performance tests and operational demonstrations on the Liquid Trans Hydro Mini. This presentation is a brief summary of a flow performance test involving the Mini in a pond.
- The test was conducted in Winfield, Maryland where the Mini was deployed at a pond and supplied a master stream device to determine various data points along the pump's performance curve.
- Unfortunately, the pump's floatation assembly was damaged during deployment and the unit "took on" water causing it to partially sink.
- The result was less flow than desired – most likely due to the intake being obstructed because the unit was resting on the bottom of the pond.

Mini is Prepared

Mini's pump with 5" gauge connection and 5" hose



Mini is Deployed



Pike pole being used to move Mini's pump into deeper water — pike pole caused float joint to break

Mini Sinks



Mini Sinks but Still Works

Mini's pump sitting on bottom of pond.



Flow Test Set Up



50 feet of 5" from Mini's pump to master stream for low flow test points

Flow Test Set Up

High flow test set-up — 1,500-gpm engine supplied by 50 ft of 5" hose



Flow Test Set Up



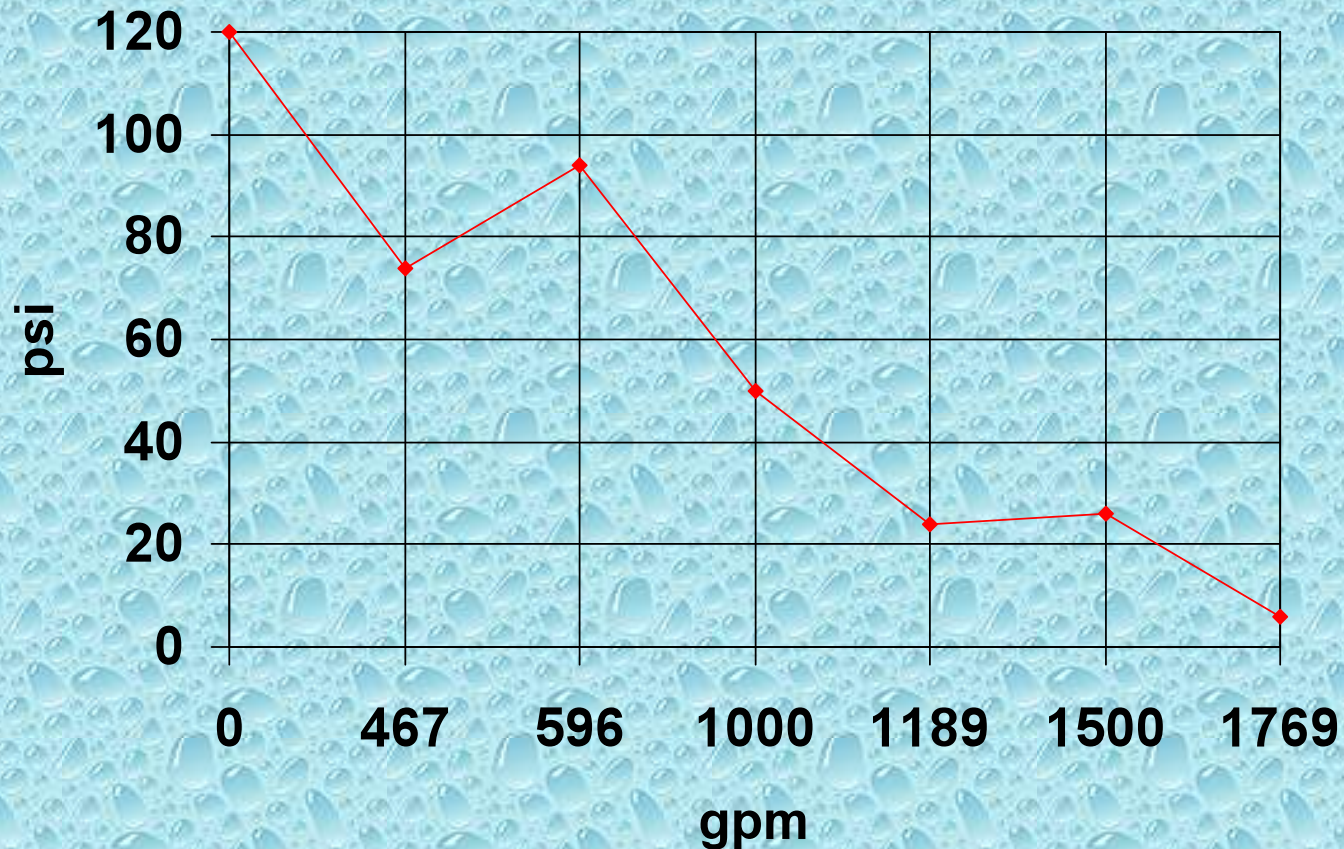
High flow tests used a 2-1/2" tip on the master stream device

The Results

467 gpm @ 74 psi
596 gpm @ 94 psi
1000 gpm @ 50 psi
1189 gpm @ 24 psi
1500 gpm @ 26 psi
1789 gpm @ 6 psi

The tests results were nothing like those achieved in the earlier flow tests. This most likely was due to the pump's float failing and pump sinking to the bottom thus causing its strainer to be obstructed and reducing the flow.

The Results



The test results were erratic and therefore the expected flow performance was not measured. However – even with the pump partially obstructed – it still flowed over 1,000 gpm!



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