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Big Water Test Data

Liquid Trans Hydro Mini Closed Relay Test From Bridge Darnestown, 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 test involving the use of the Mini off of a bridge.
- The test was conducted in Darnestown,
 Maryland where the Mini was deployed over a bridge and used to supply a 1,500 gpm pumper.
- The impressive fact was that the lift was 33-ft lift.

Test Site



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Test-Site





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Deployment ramp is obtained and is prepared for attachment to the guard rail.



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Mini Deployment



Pressure measurement fitting attached.



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Mini-Deployment



A problem that arose early on into the test was the winch cable, hydraulic hoses, and 4-inch supply hose getting tangled.

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Mini Deployment



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Mini Deployment



Once deployed into the water, the pump was powered up and the 4-inch hose charged. The hose had to be tied off to prevent additional hose from being pulled over the bridge railing.

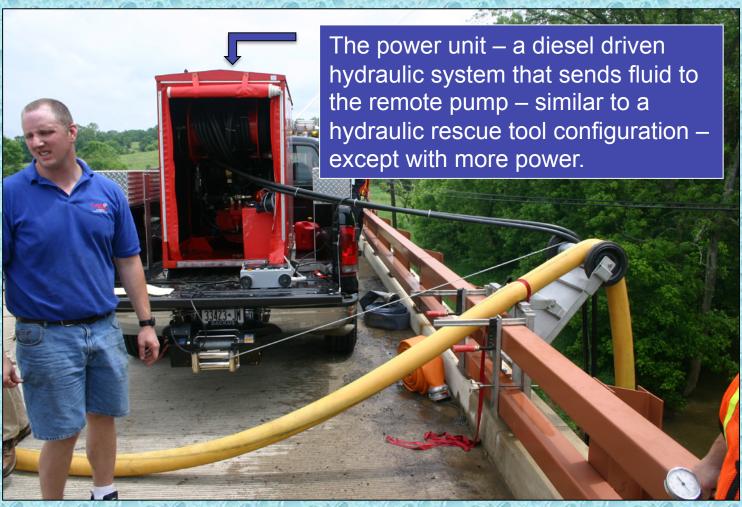
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Mini-Deployment



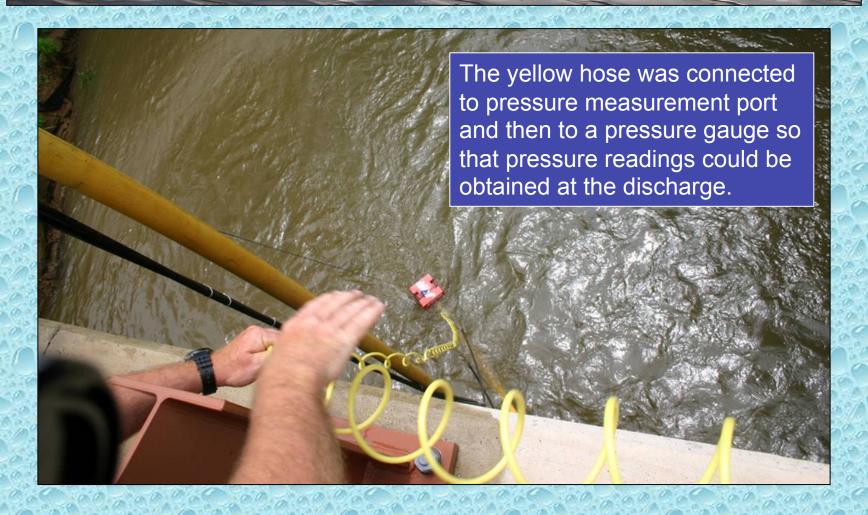
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Mini Deployment



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33 feet of Lift



Power Unit at Maximum rpm



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Supply Set-up



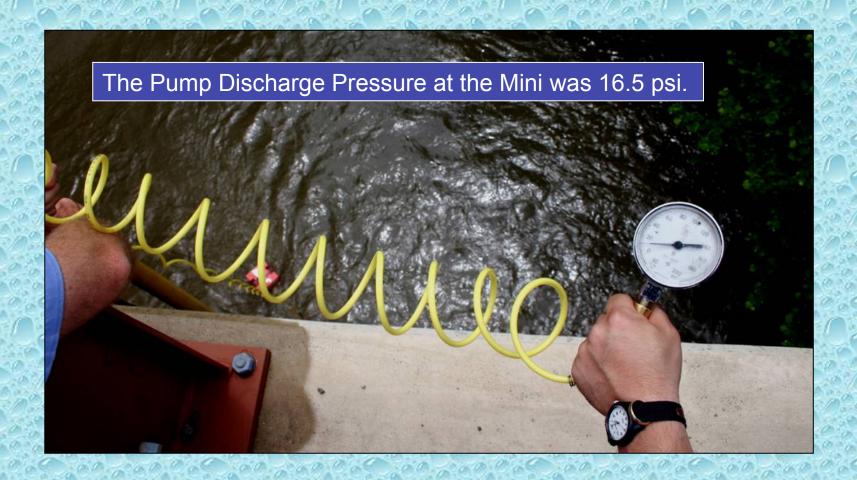
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Pitot-Measurement



The flow from the pumper's prepiped deck gun was near 900 gpm. A hand held pitot gauge was used to verify the flow through the 2-inch tip.

Pump Discharge Pressure



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Impressive



The Mini clearly demonstrated its ability to pump water and overcome head pressure issues. The use of the 4-inch hose made it easy for the pump to deliver the 900 gpm at 16.5 psi PDP.



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Liquid Trans Hydro Mini Tests

Retrieval



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Liquid Trans Hydro Mini Tests



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