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# Big Water Test Data

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



# Facts & Figures...

- This presentation is from the Archives of Larry Davis, Vice President of GBW Associates, LLC.
- During May 2004, Larry led a series of performance tests and operational demonstrations on the Liquid Trans Hydro Mini.
- This presentation is a brief summary of a performance test.
- The test was conducted at a fire water pond located on the property of the Winfield Community VFD in Carroll County, Maryland.



# The Liquid Trans Unit

The Power Unit – a diesel driven hydraulic pump.





# The Liquid Trans Unit

Hydraulic hose on a reel.





# The Liquid Trans Unit

Pump with gauge connection and 5" discharge line



Gauge connection



# Test Set-up

Mini pump being pushed into pond





# Test Set-up

Mini being set up — moved into deeper water





# Test Set-up

Mini pump in position — coiled hose is gauge line





# Test Set-up

Flow from Mini pump through engine to master streams





# Test Set-up

Engine discharges through 5" and 3" lines to master stream devices





# Flow Test Device



TFT Crossfire with smoothbore and pitot gauge to measure flow



# Flow Test Device

Typical flow test arrangement





# Flow Test Devices



Flow test  
arrangement for high  
flow test points

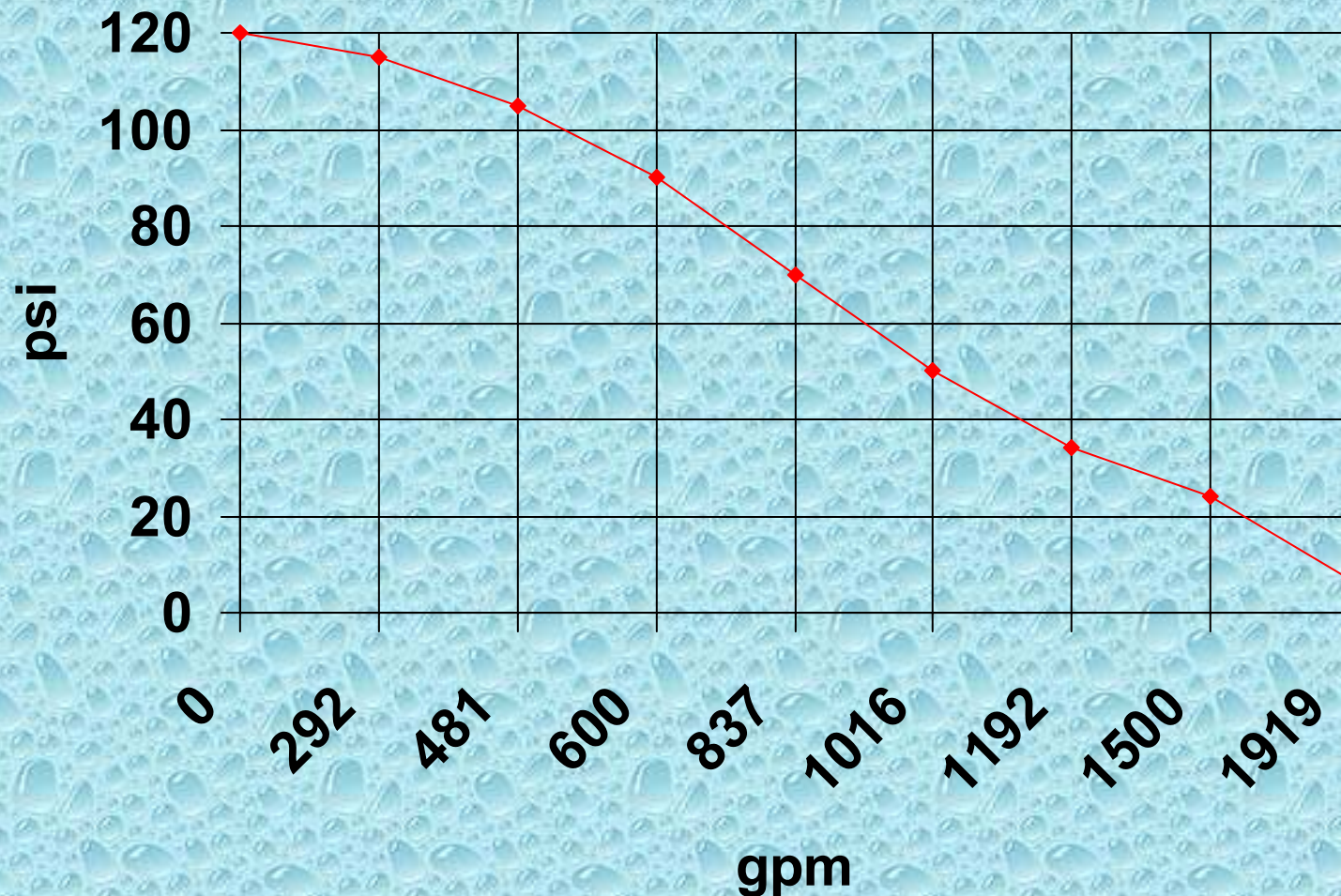


# Mini Pump Performance Test Points

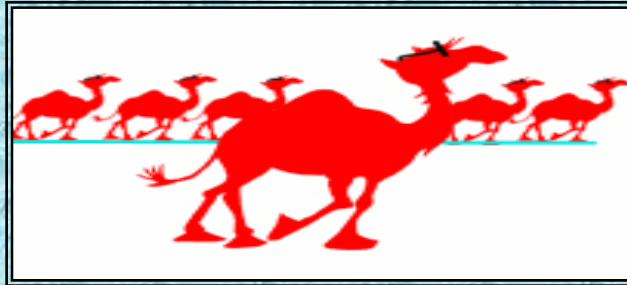
292 gpm @ 115 psi  
481 gpm @ 105 psi  
600 gpm @ 90 psi  
837 gpm @ 70 psi  
1016 gpm @ 50 psi  
1192 gpm @ 34 psi  
1500 gpm @ 24 psi  
1919 gpm @ 7 psi



# Mini Pump Performance Graph







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