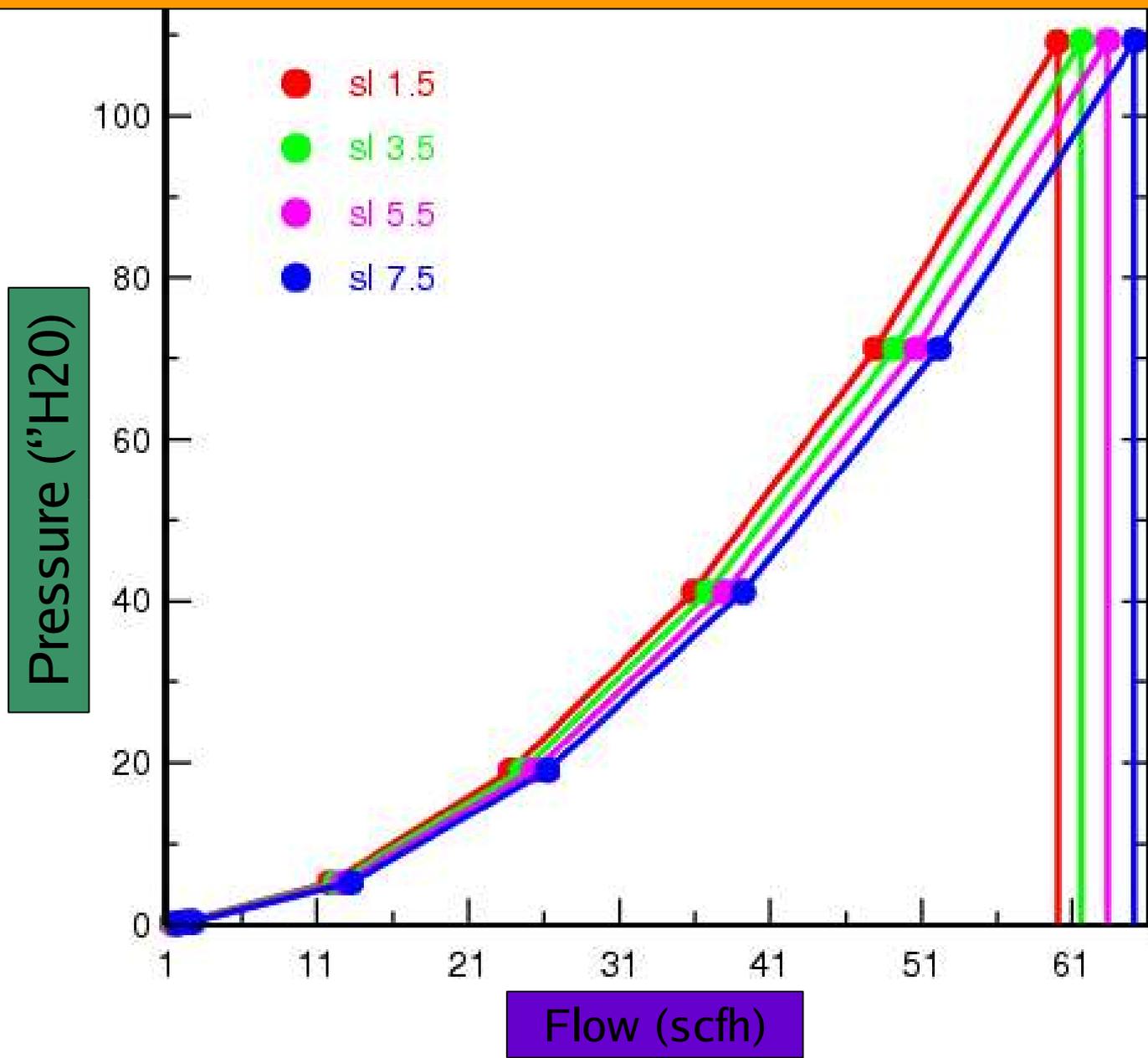
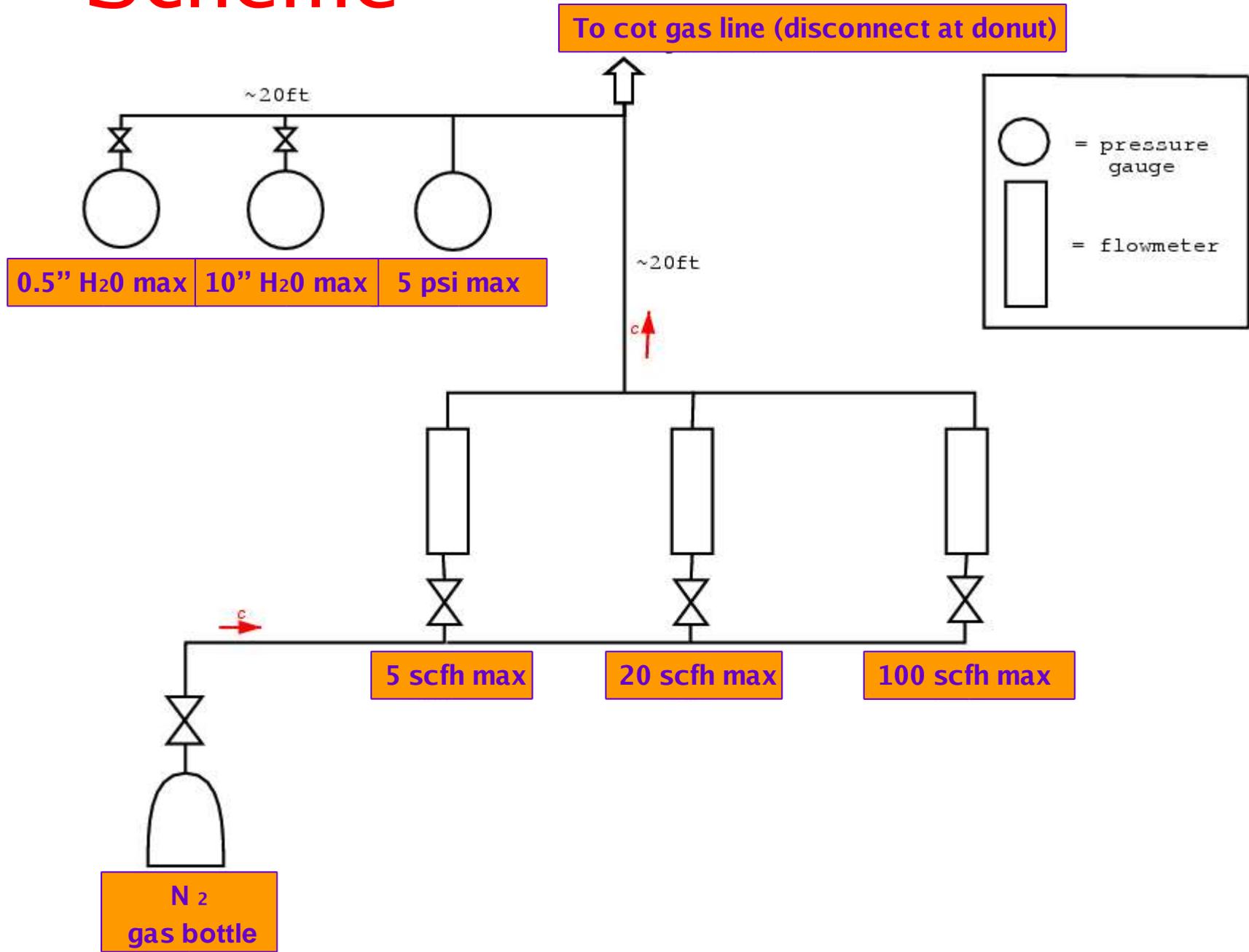




# Predicted P vs. Flow, from Del

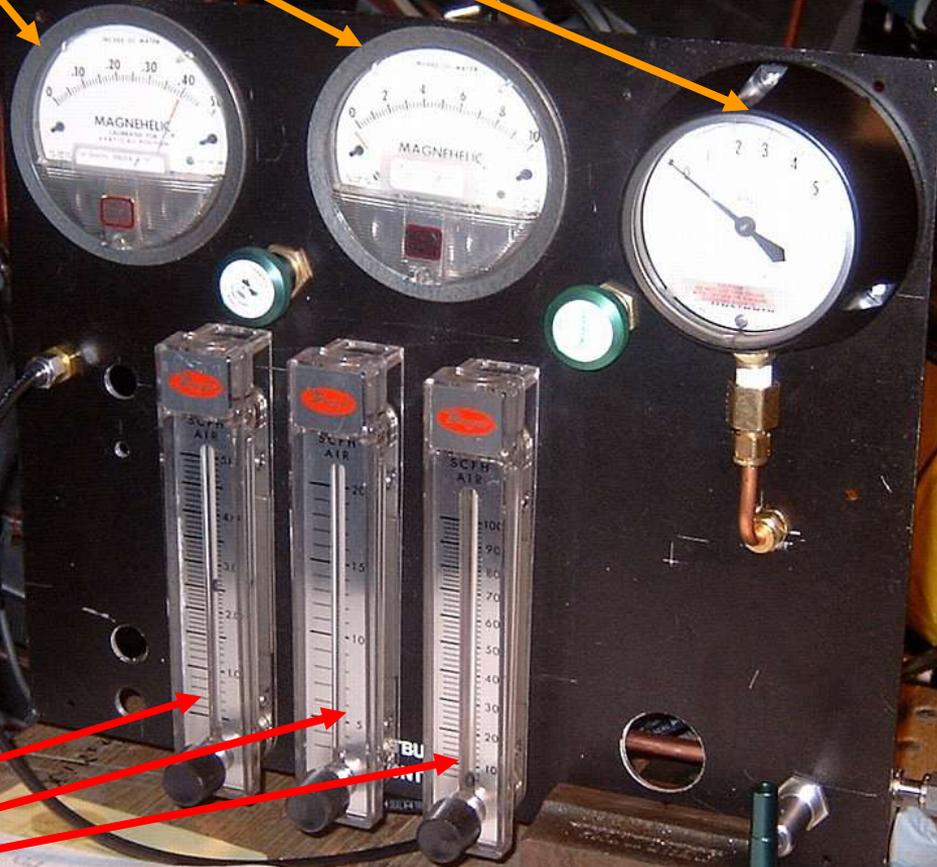


# Scheme



# Apparatus

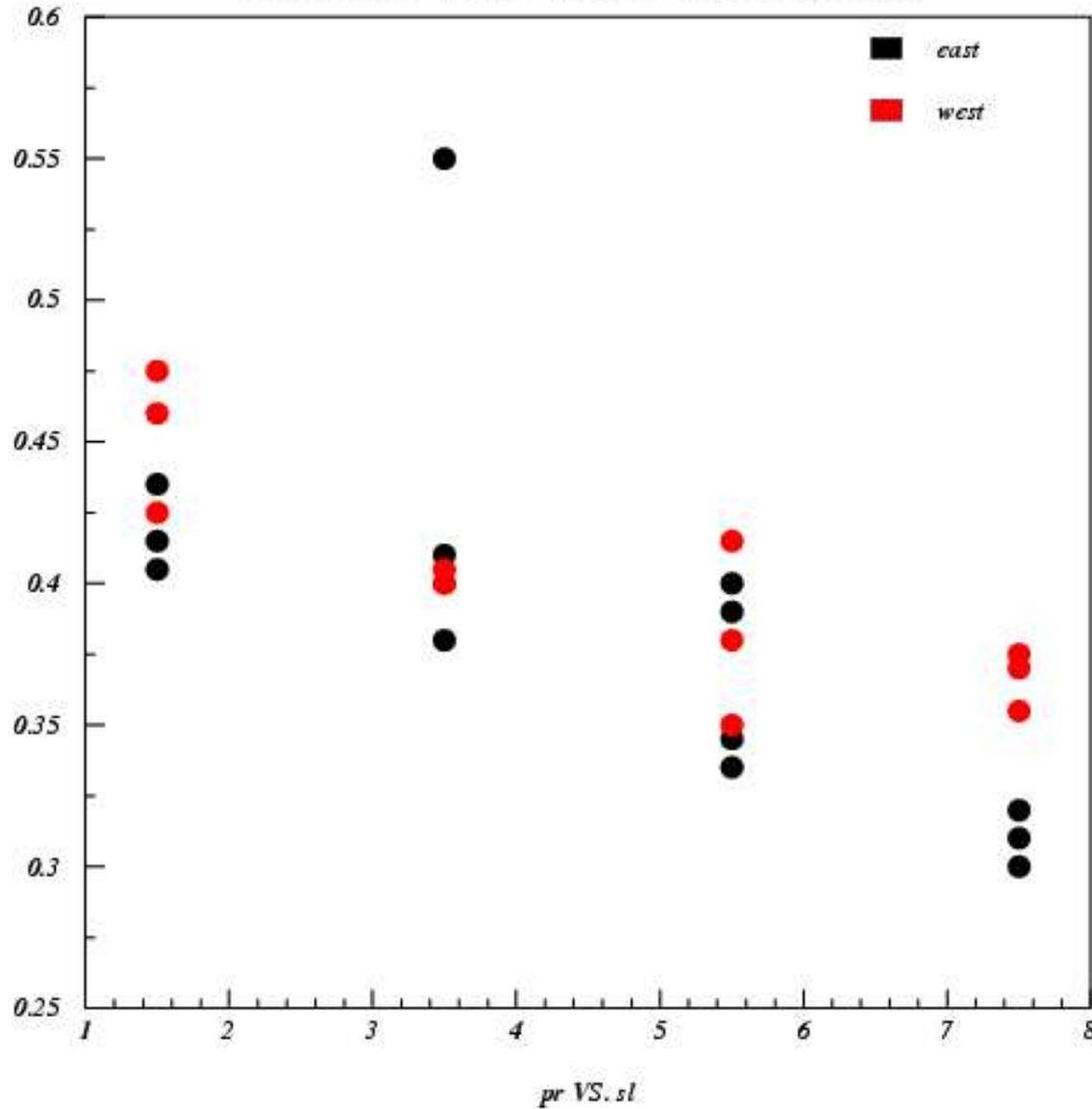
Pressure Gauges



Flowmeters

# Low Flow Measurement

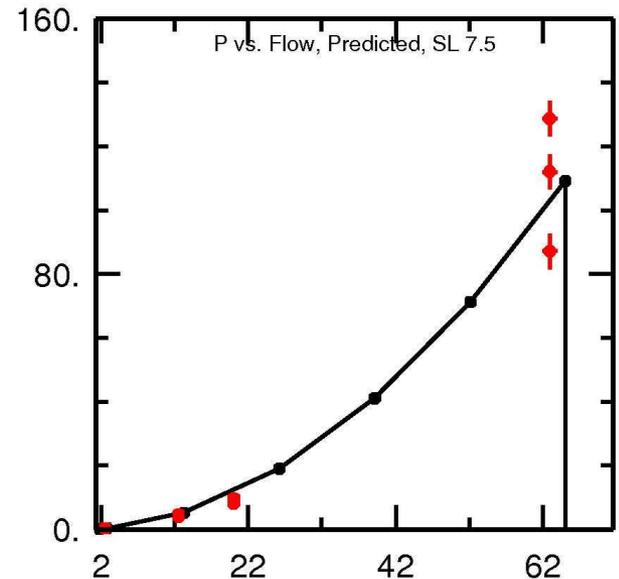
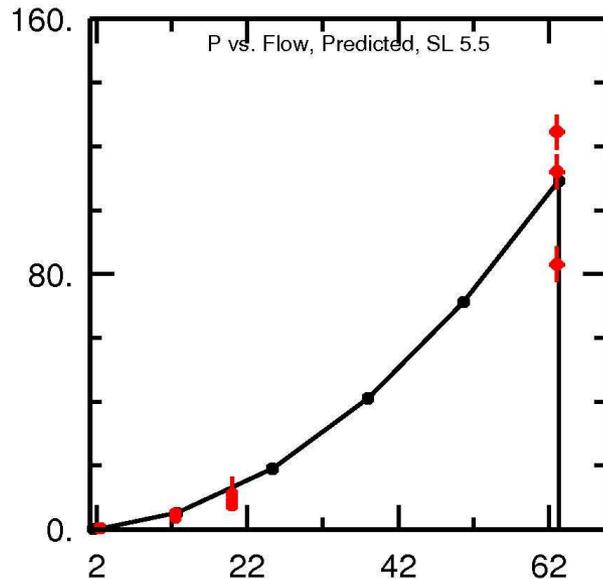
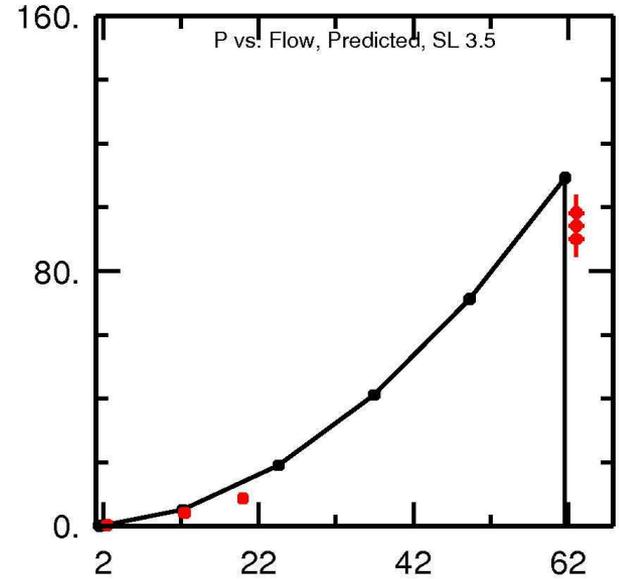
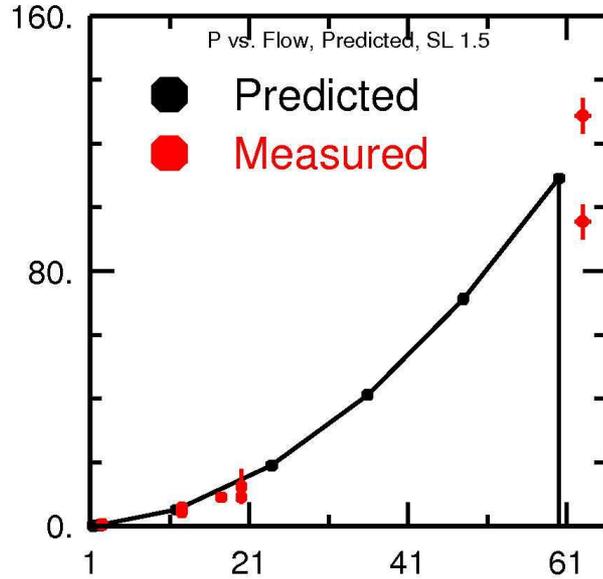
*Pressure vs. SL at 2.5 (40 tot) scfh*



Measured 12/16;  
others  
inaccessible

Higher Flows,  
West

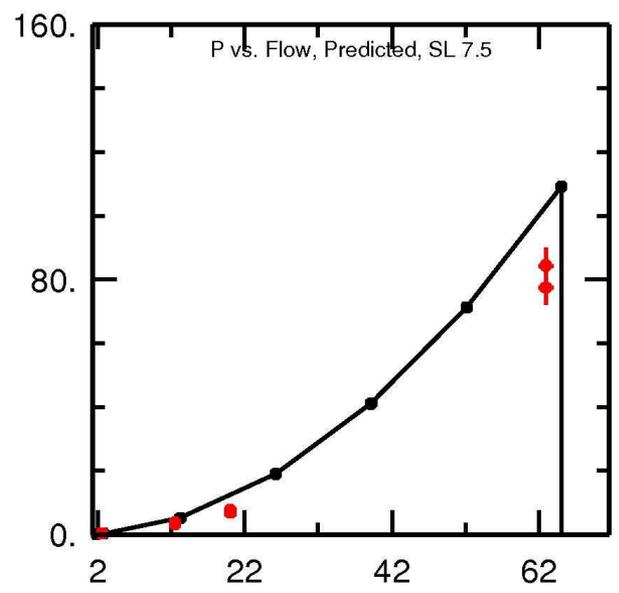
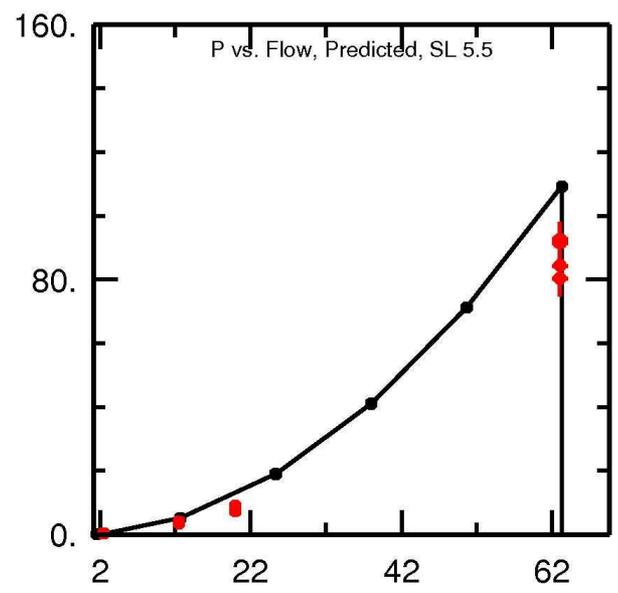
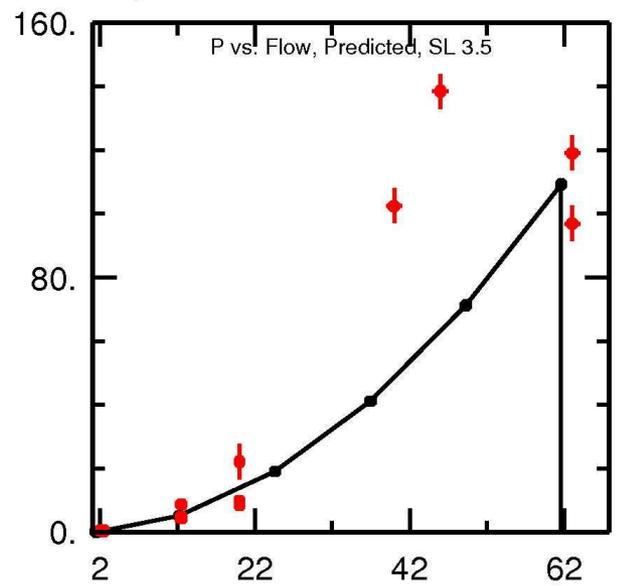
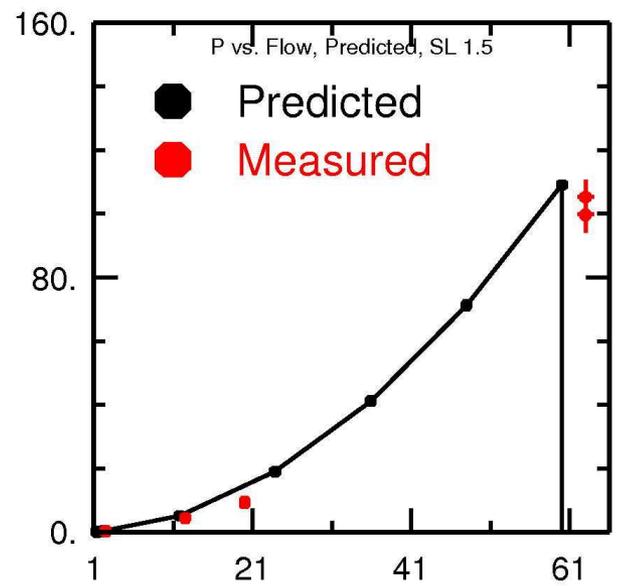
Pressure vs. Flow, West



Measured 13/16;  
others  
inaccessible

Higher Flows, East

Pressure vs. Flow, East

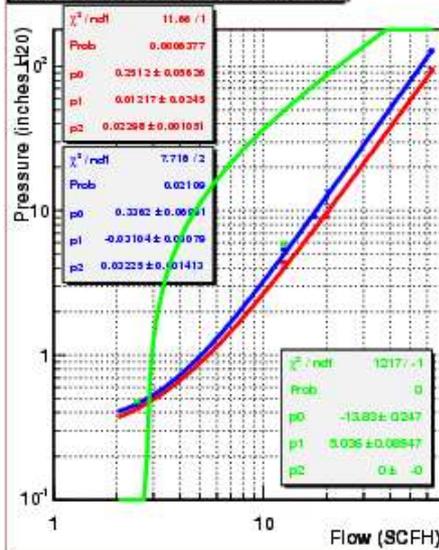


# Fits, West

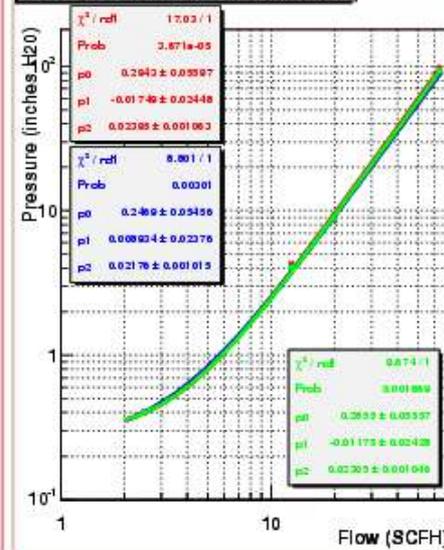
COT Gas Line Impedance (West)

Mon Mar 29 03:59:03 2004

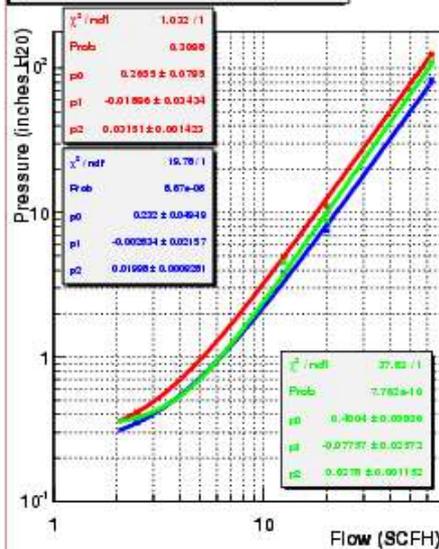
Impedance Measurement: Superlayers 1.5 W



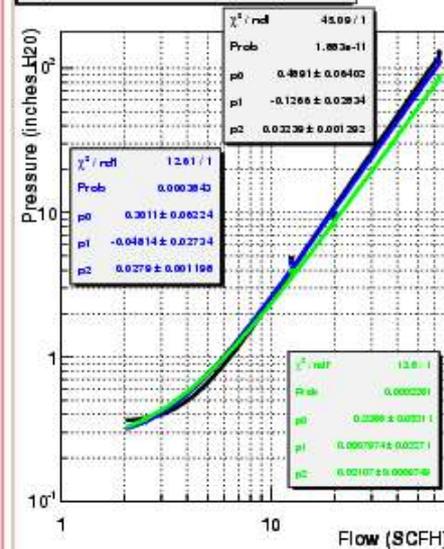
Impedance Measurement: Superlayers 3.5 W



Impedance Measurement: Superlayers 5.5 W



Impedance Measurement: Superlayers 7.5 W

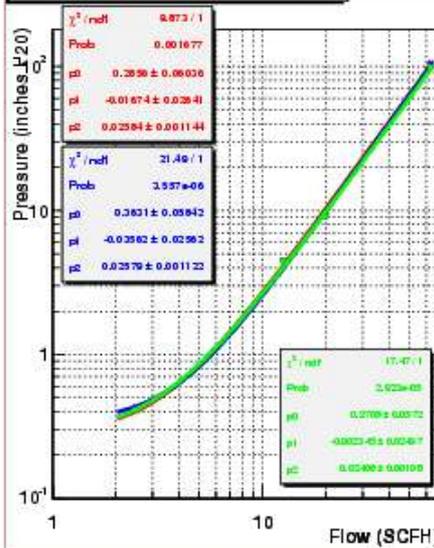


# Fits, East

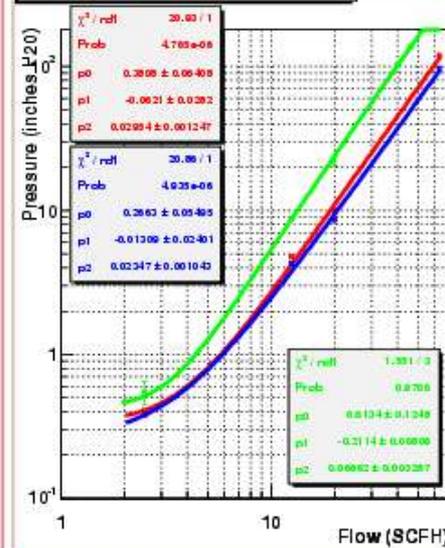
COT Gas Line Impedance (East)

Mon Mar 29 03:59:06 2004

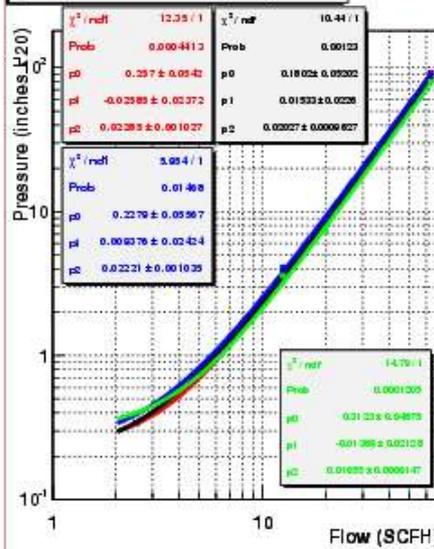
Impedance Measurement: Superlayers 1.5 W



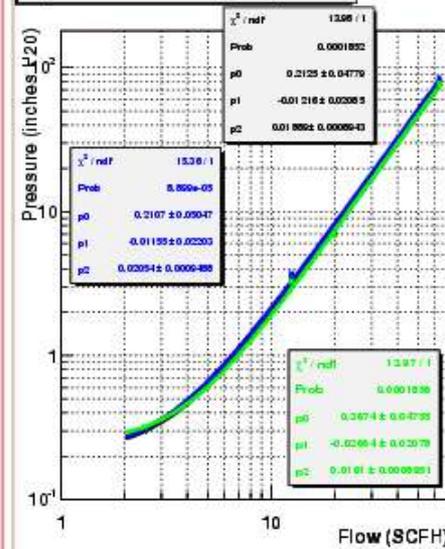
Impedance Measurement: Superlayers 3.5 W



Impedance Measurement: Superlayers 5.5 W



Impedance Measurement: Superlayers 7.5 W



# Conclusions

- Measured P vs. Flow in 25/32 lines
  - for low, intermediate, and high flows
- For most lines, measurements agree well with calculation
- One line with significantly higher impedance