

Pressure Drop

Hot Water Forum

Portland, Oregon February 21-23, 2016

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SoCalGas Hot Water Demonstration Lab



Entering Section of Experiment:

1. Flushing and Priming
2. Flow Rate
3. Pressure 1
4. Temperature 1



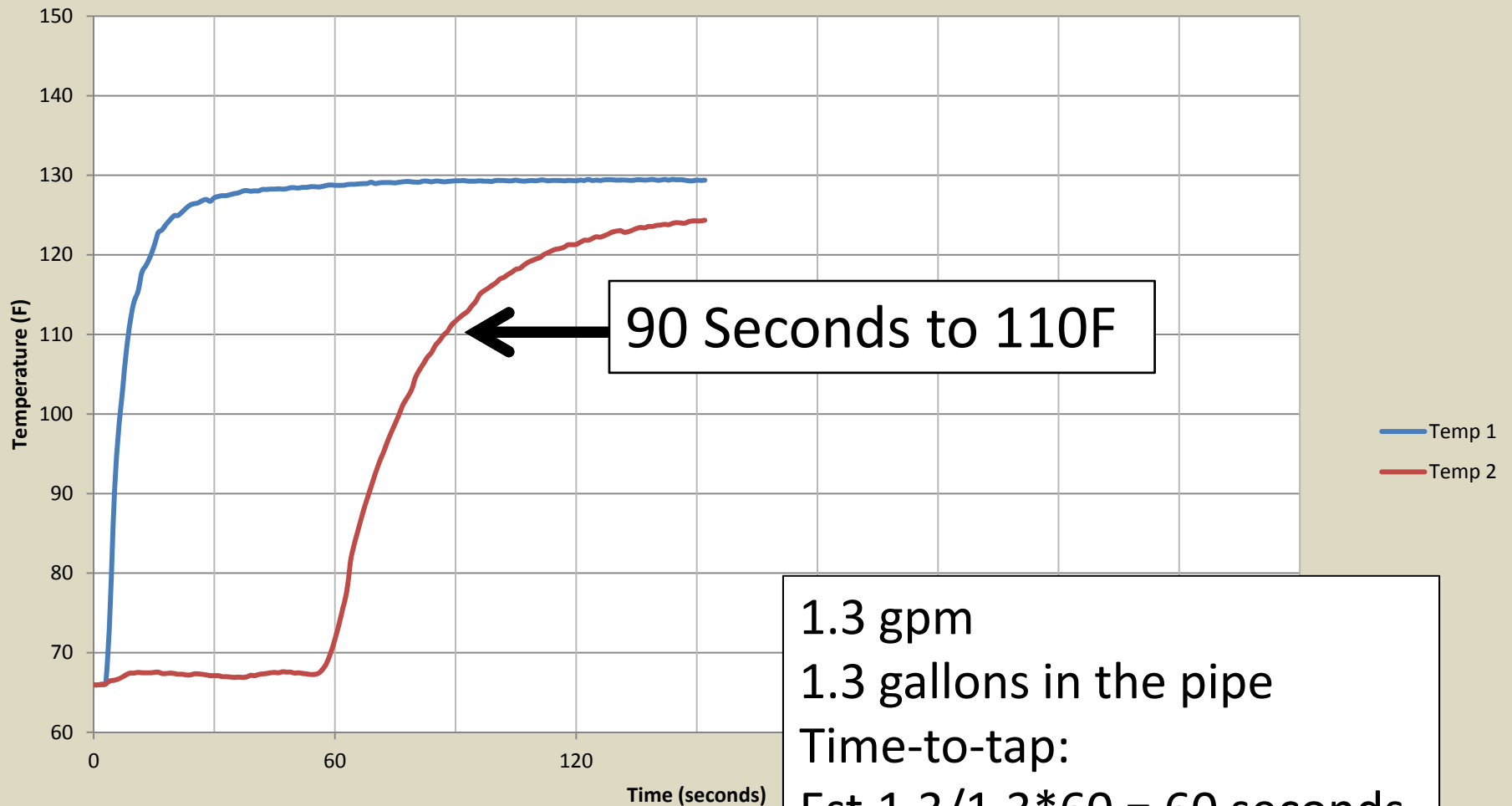
Exiting Section of Experiment:

1. Pressure 2
2. Temperature 2
3. Discharge through Plumbing Fixture



Demonstrating Performance

A.1 - Pex - 75 ft. - Uninsulated - 3/4" dia - Red Pex

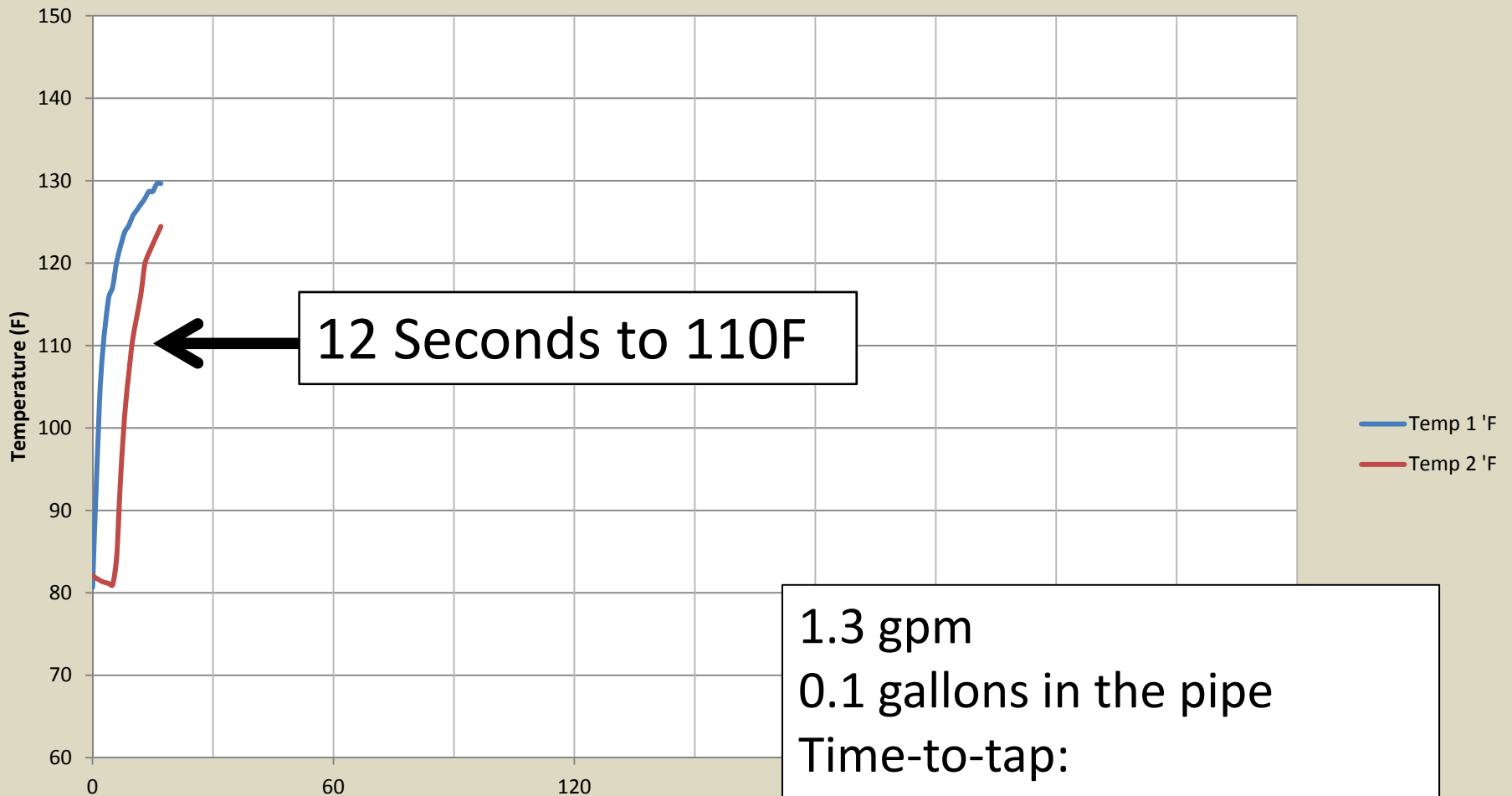


90 Seconds to 110F

1.3 gpm
1.3 gallons in the pipe
Time-to-tap:
Est. $1.3/1.3 * 60 = 60$ seconds
Why 30 seconds more?

Demonstrating Performance

C.2 - Pex - 10ft. - Uninsulated - 1/2" dia - Red Pex



12 Seconds to 110F

1.3 gpm
0.1 gallons in the pipe
Time-to-tap:
Est. $0.1/1.3*60 = 5$ seconds
Why 7 seconds more?

