

Hot Water Demonstration Laboratory

Southern California Gas Company
Energy Resource Center
Downey, California

SoCalGas Hot Water Demonstration Lab



Entering Section of Experiment:

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



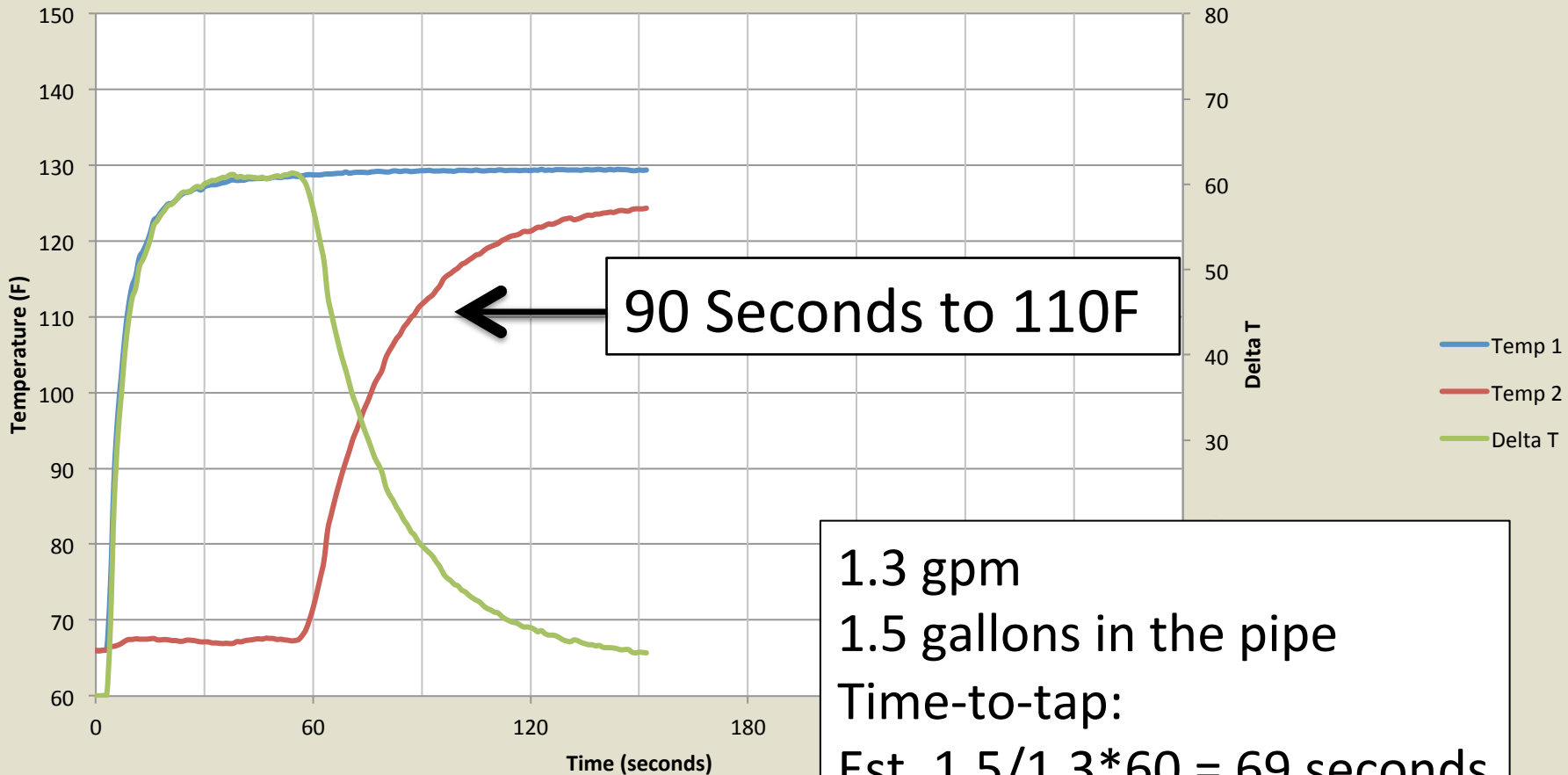
Exiting Section of Experiment:

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

1.5 gallons in the pipe

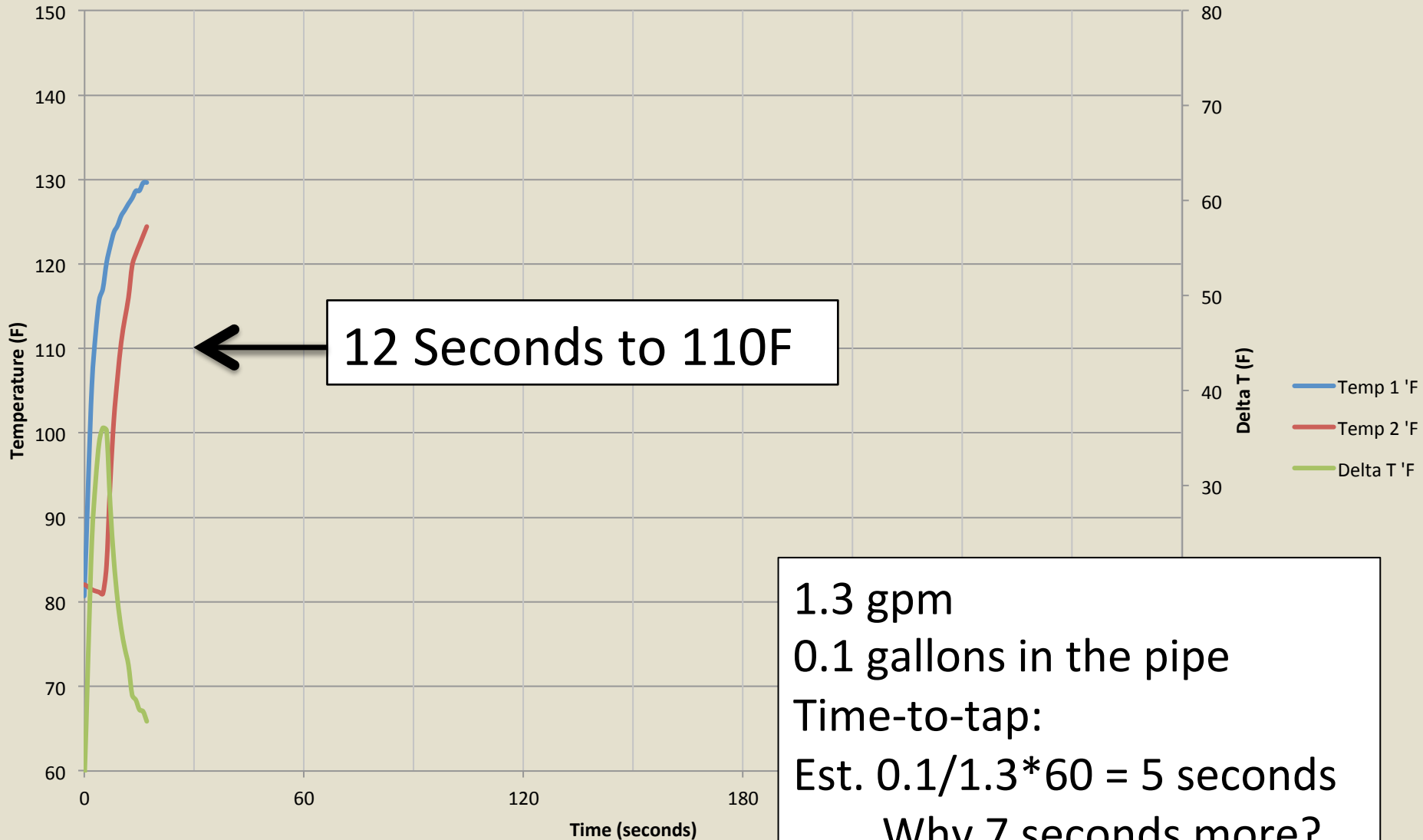
Time-to-tap:

Est. $1.5/1.3 * 60 = 69$ seconds

Why 21 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?