

more pressure tests

To follow-up on the leak check yesterday (which showed a slow leak), I repeated this test today:

1033 $P=1004.88$ (pinched off)

1034 unpinched Pref (so I could read pressure easily) $P=1007.29$

1037 installed tee, $P=1007.32$

1038 blew in, $P=1029$ dropping

1039 pinched entire array, $P=1025$ still dropping

1041 tighten tee, $P=1021.5$ still dropping

1043 pinched off 11b $P=1018.9$, still dropping

~1100-1113 reseated both reservoir endcaps with more Teflon tape and plumbers' grease. Was able to screw in at least 3 whole turns more (due to grease lubrication)., $P=1007.29$ (had been open to outside)

1114 blow in, $P=1048.3$, dropping slowly

1117 $P=1046.9$, dropping slowly

1119 open 11b, $P=1046.6$, no obvious change in rate of dropping

1120 open entire array, $P=1046.3$, again no obvious change

1127 disconnect tee

1129 back to normal, $P=1007.27$

1134 backfill hole (again!) $P=1007.6$

Conclusion: reservoir had leak with 10min constant due to not-completely-seated endcaps. They are now seated better, with a much smaller leak (though the decrease in P could have been moderated by a change in temperature, that should have increased P).

We still have the wind correlation to investigate...