Order\_1\_TanThre\_20\_shutTr\_0.02\_flowTr\_0.03--Row 1 buildUp Pressure (psia) Time (hr) Fidnid rate (STB/D)

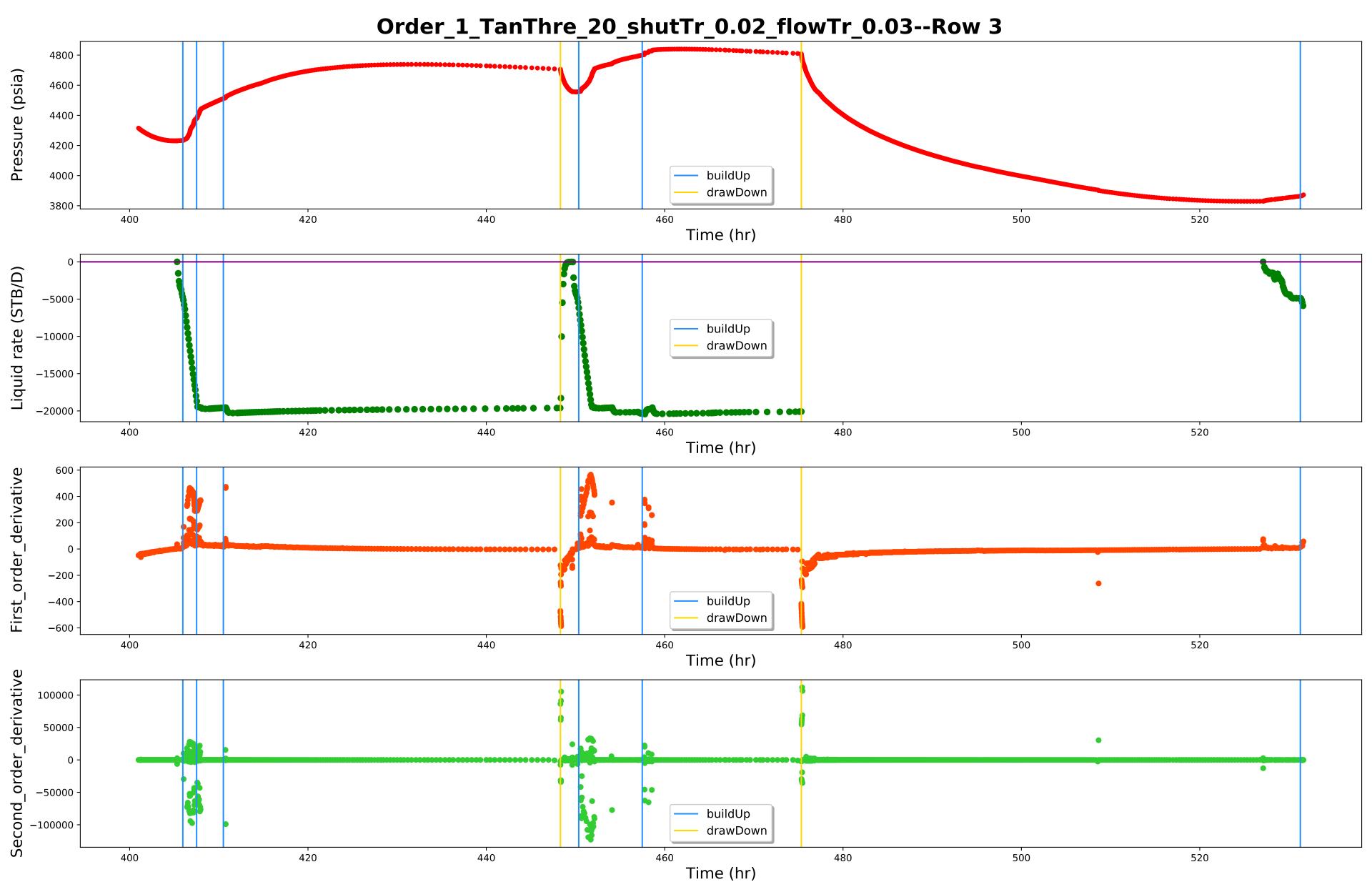
-5000 -15000 -20000 buildUp -20000 Time (hr) First\_order\_derivative buildUp Time (hr) Second\_order\_derivative - buildUp Time (hr) 

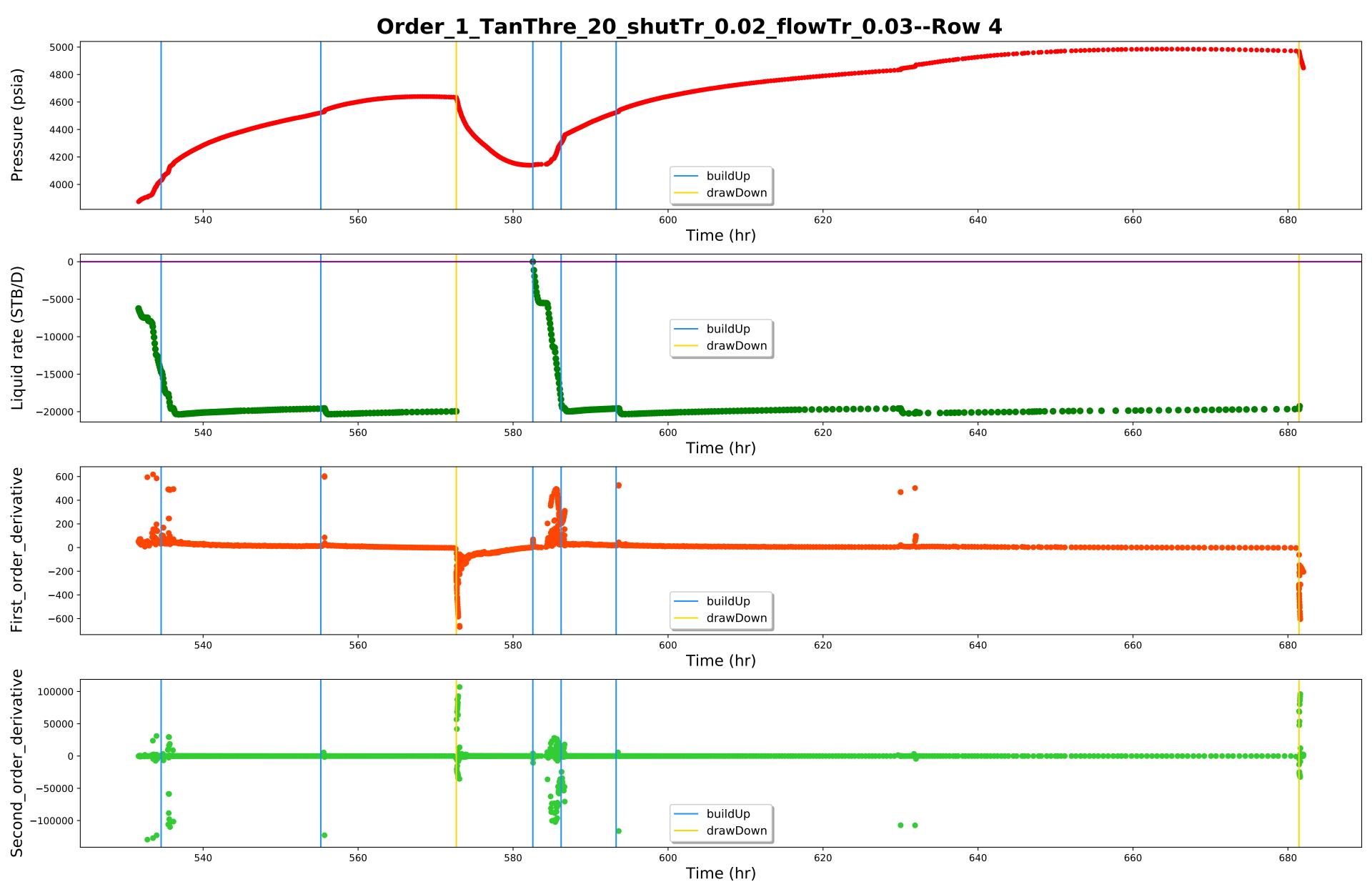
Order\_1\_TanThre\_20\_shutTr\_0.02\_flowTr\_0.03--Row 2 buildUp Pressure (psia) drawDown Time (hr) Liquid rate (STB/D) -5000 buildUp -10000 drawDown -15000 Time (hr) First\_order\_derivative buildUp drawDown -200 -400 Time (hr) Second order derivative

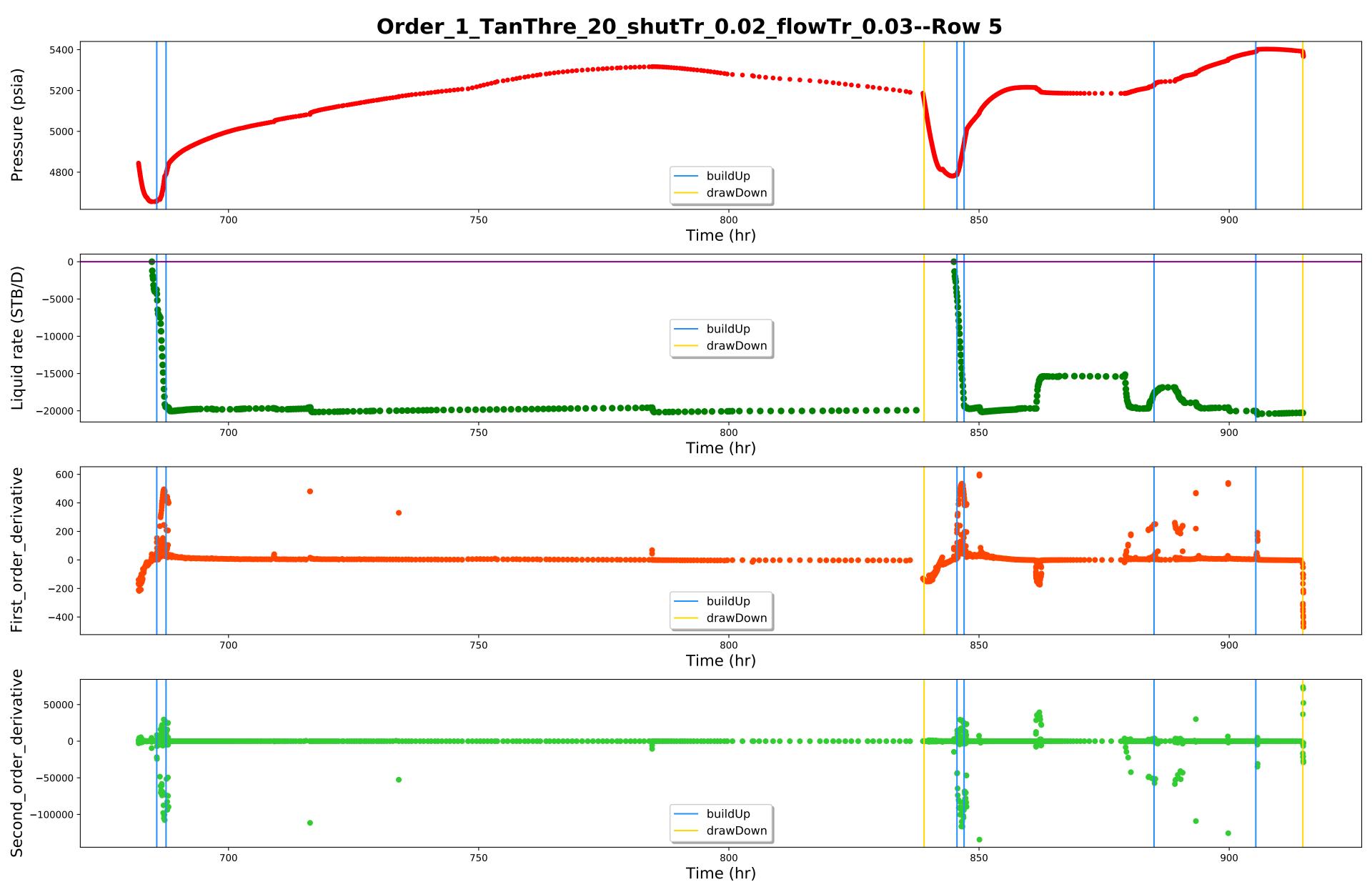
-20000

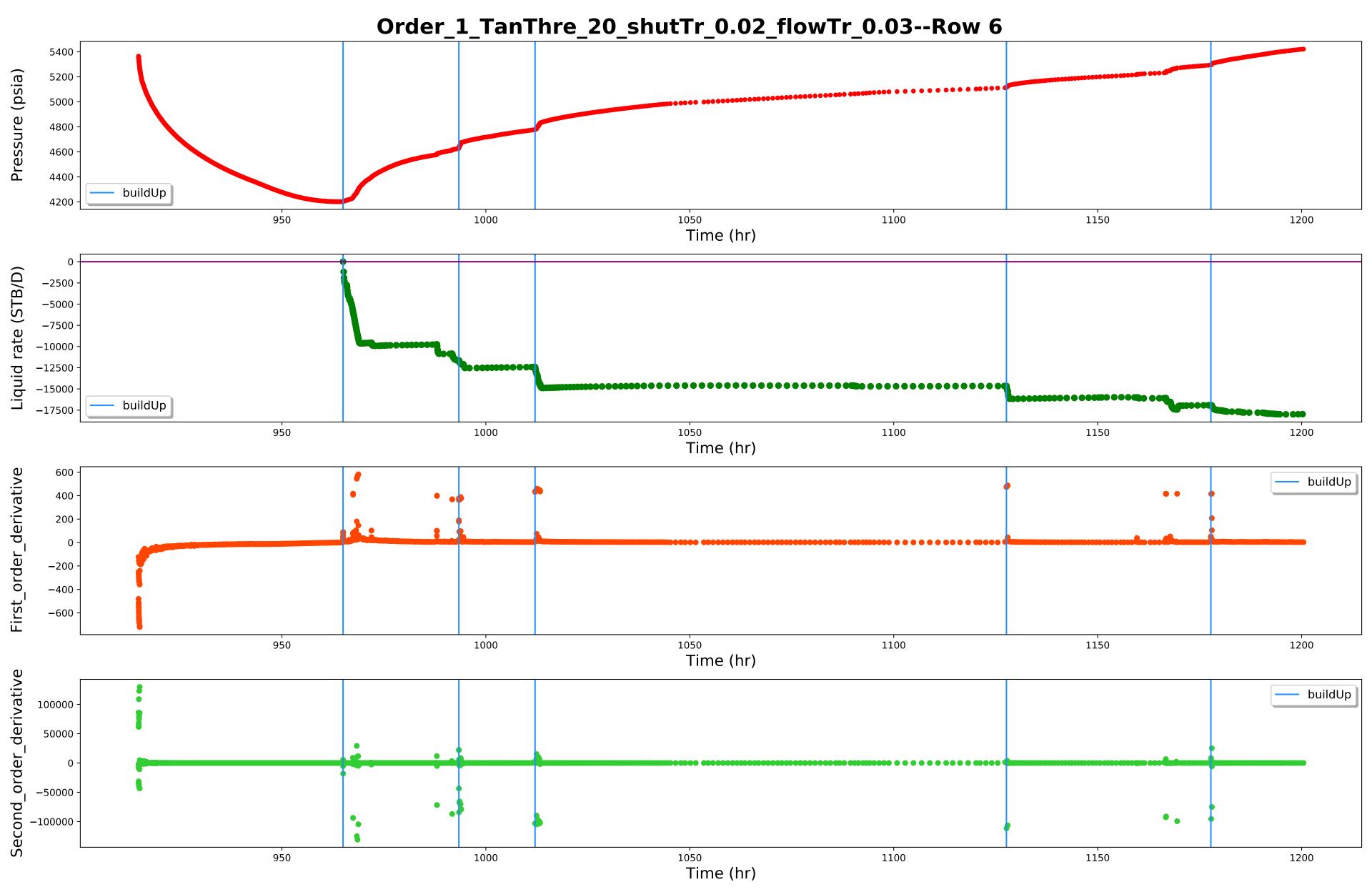
-20000

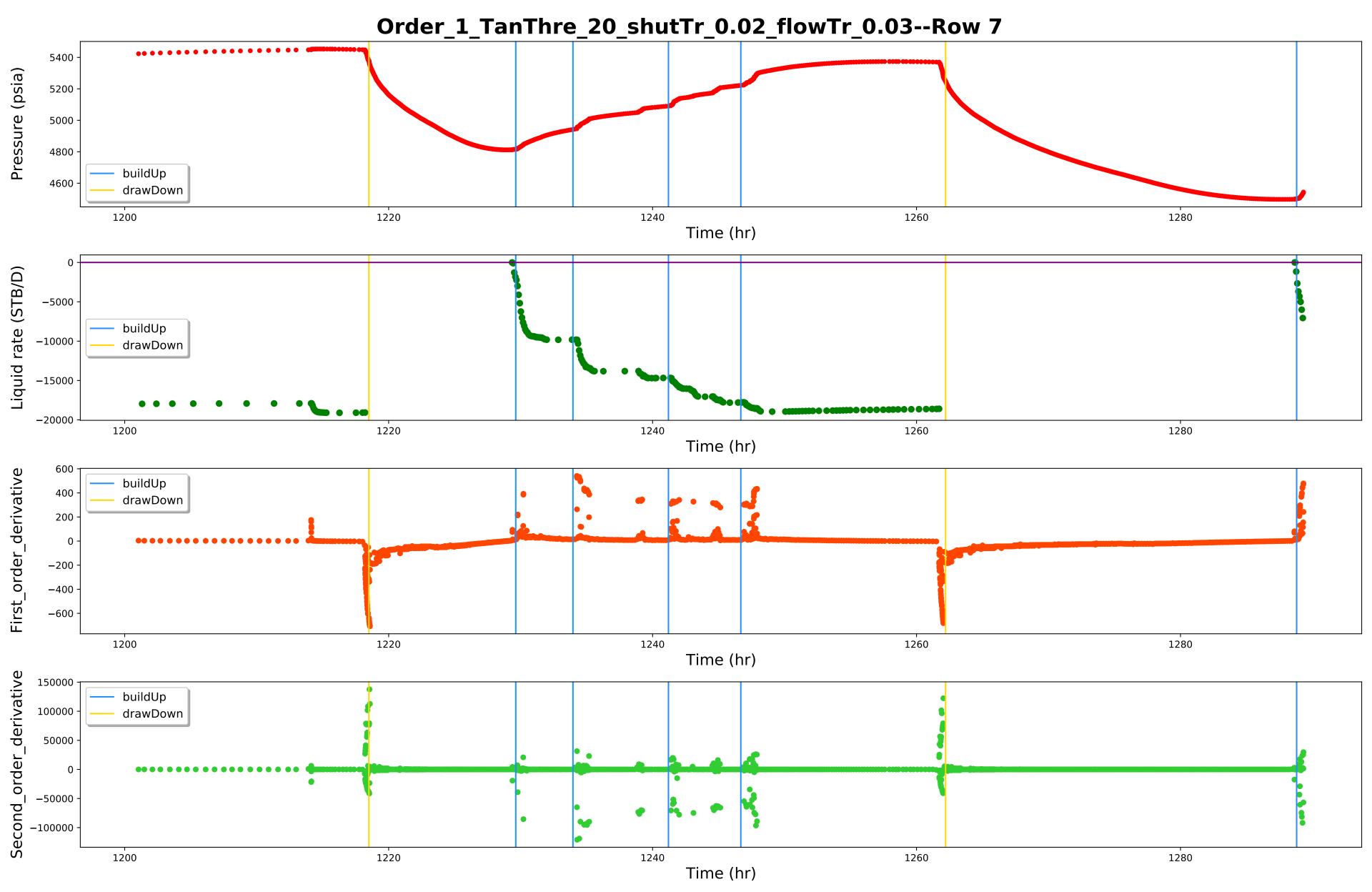
-100000 buildUp drawDown Time (hr)

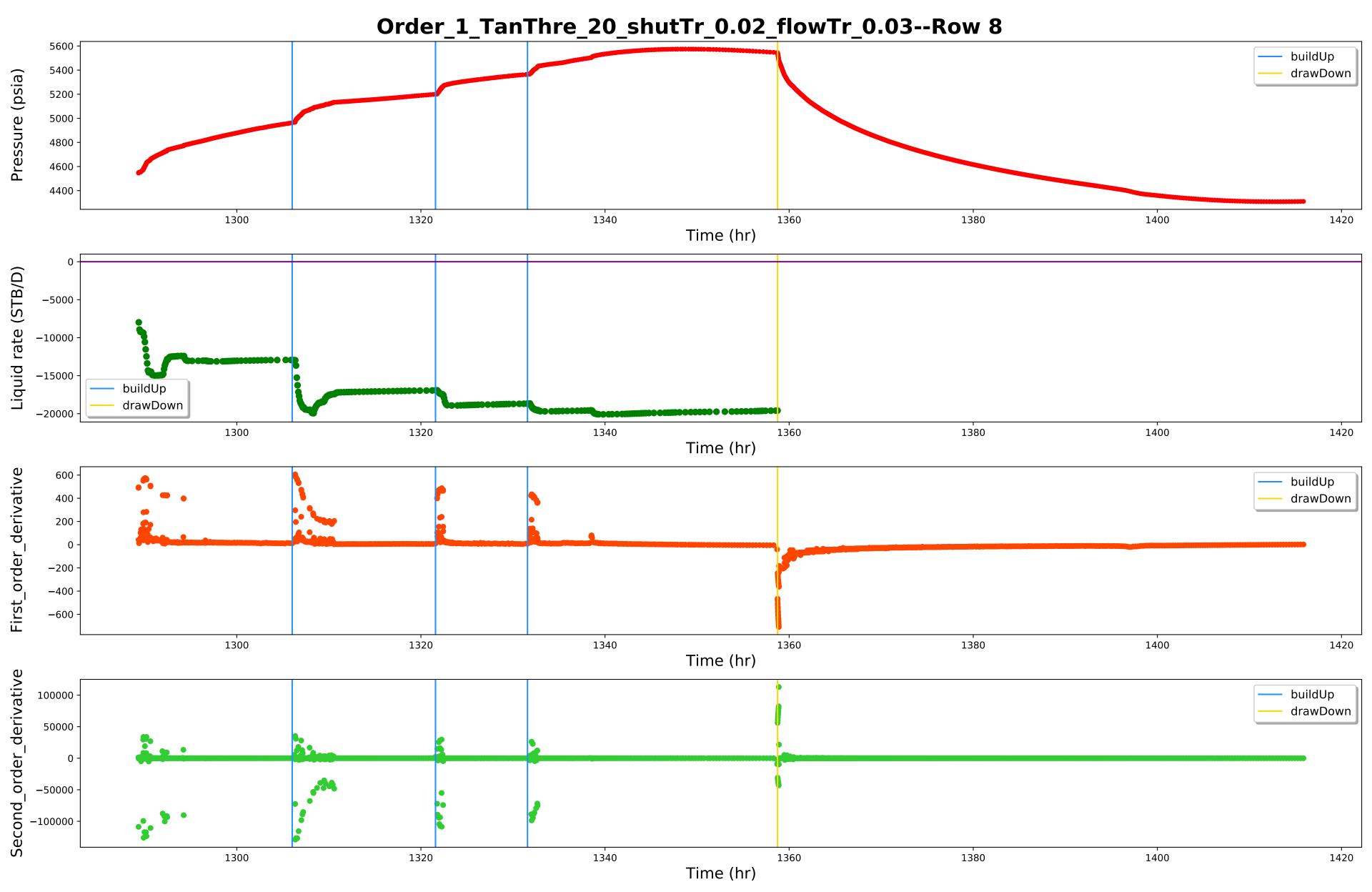


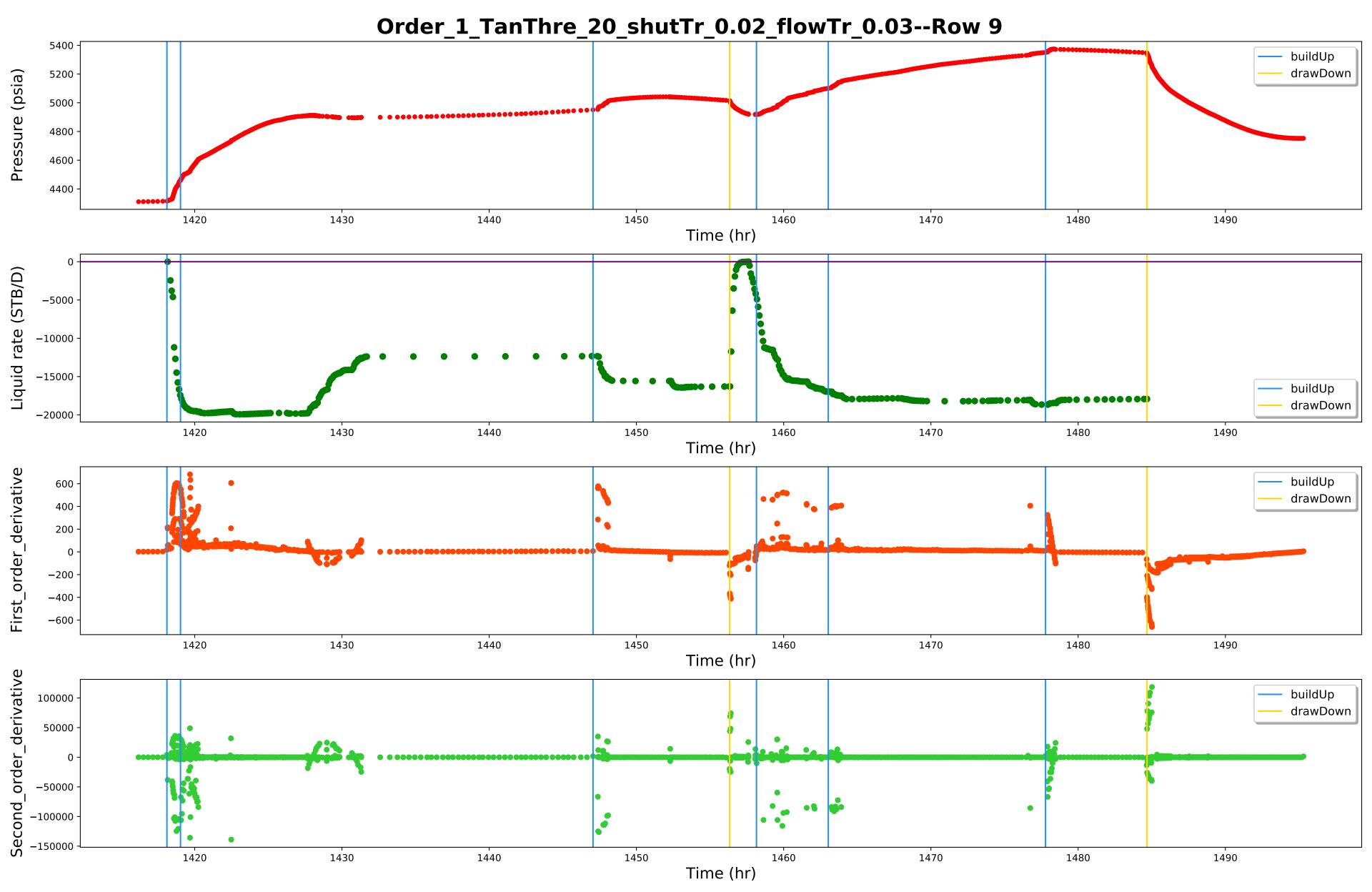


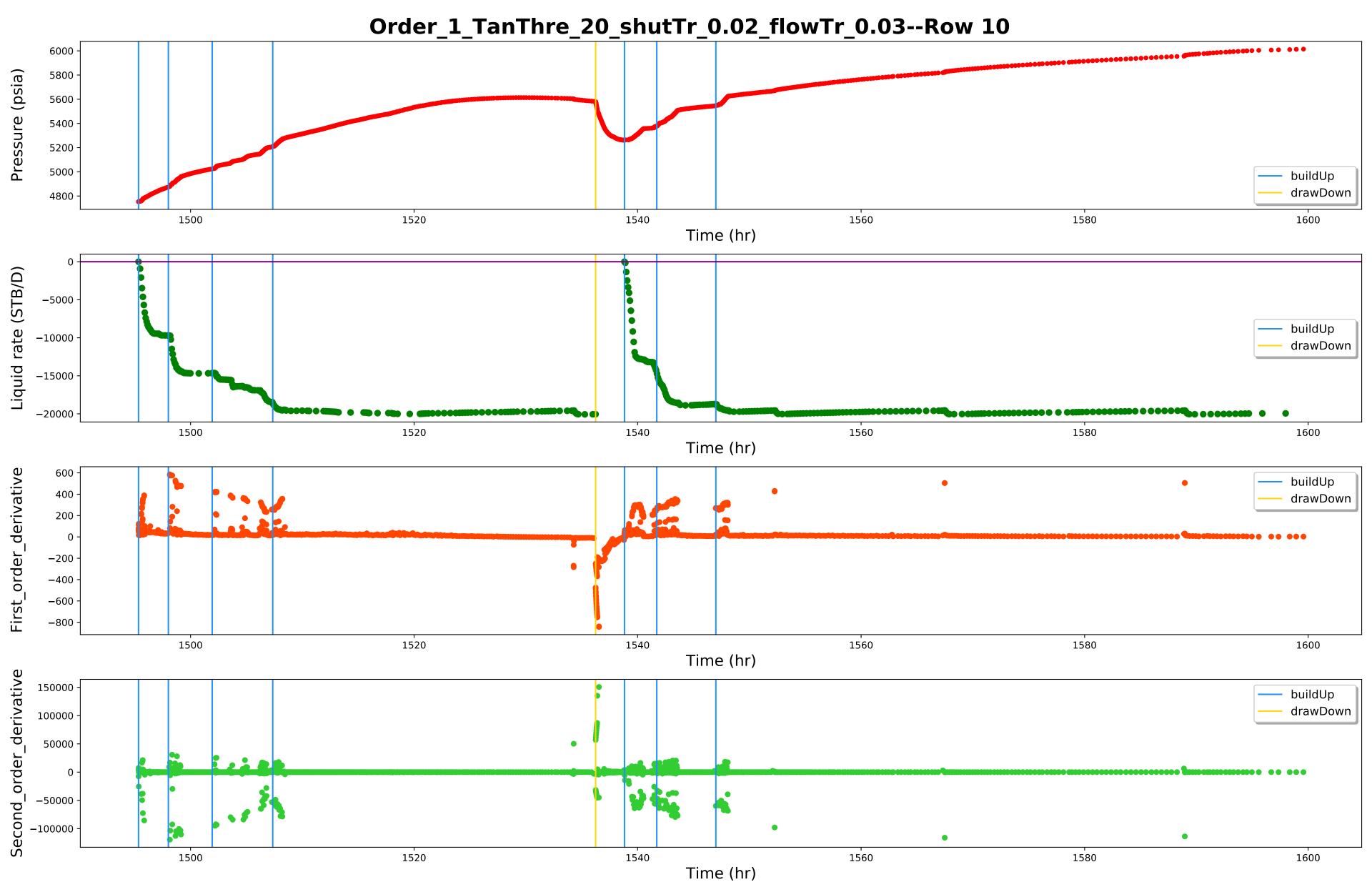




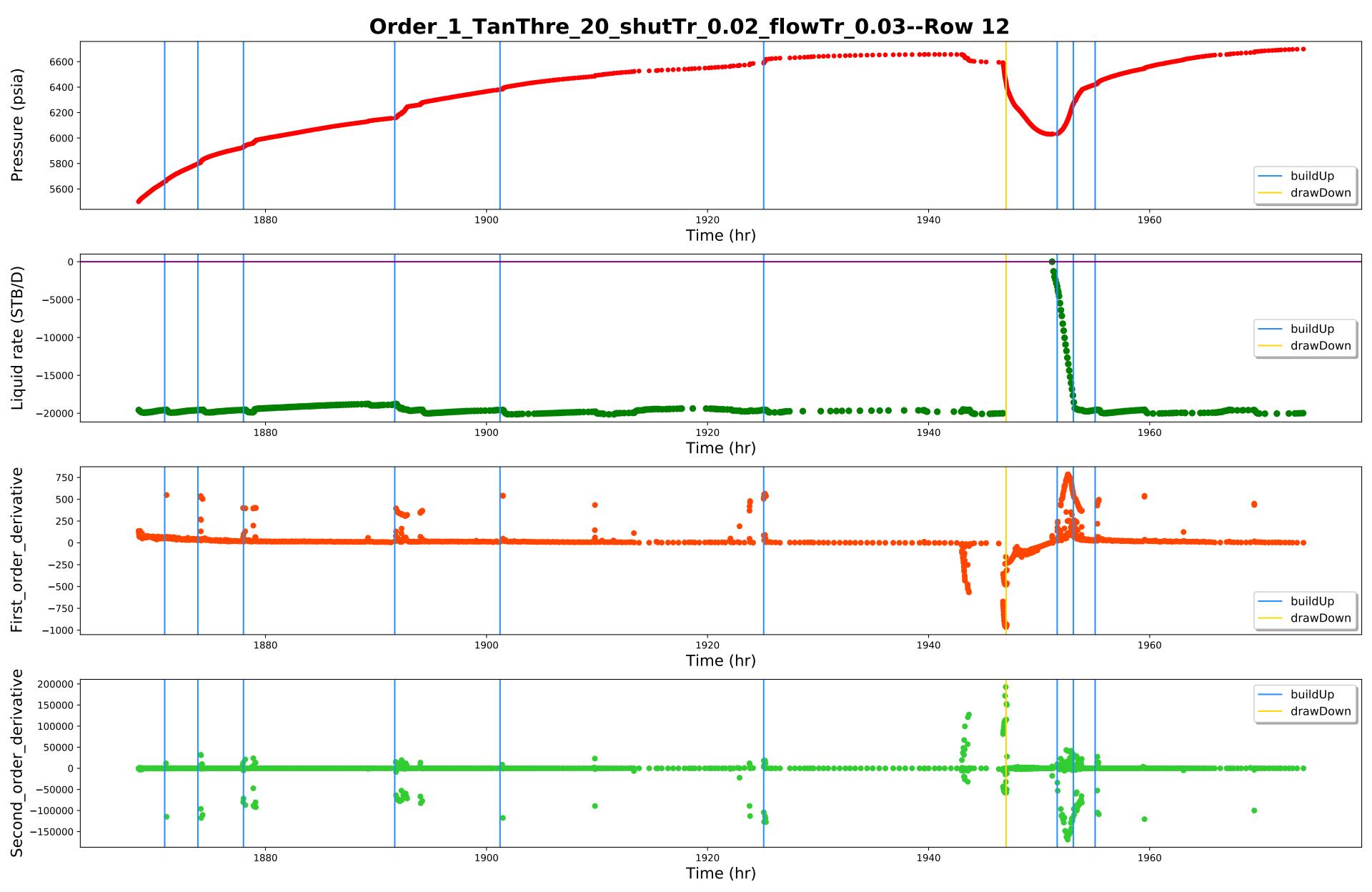


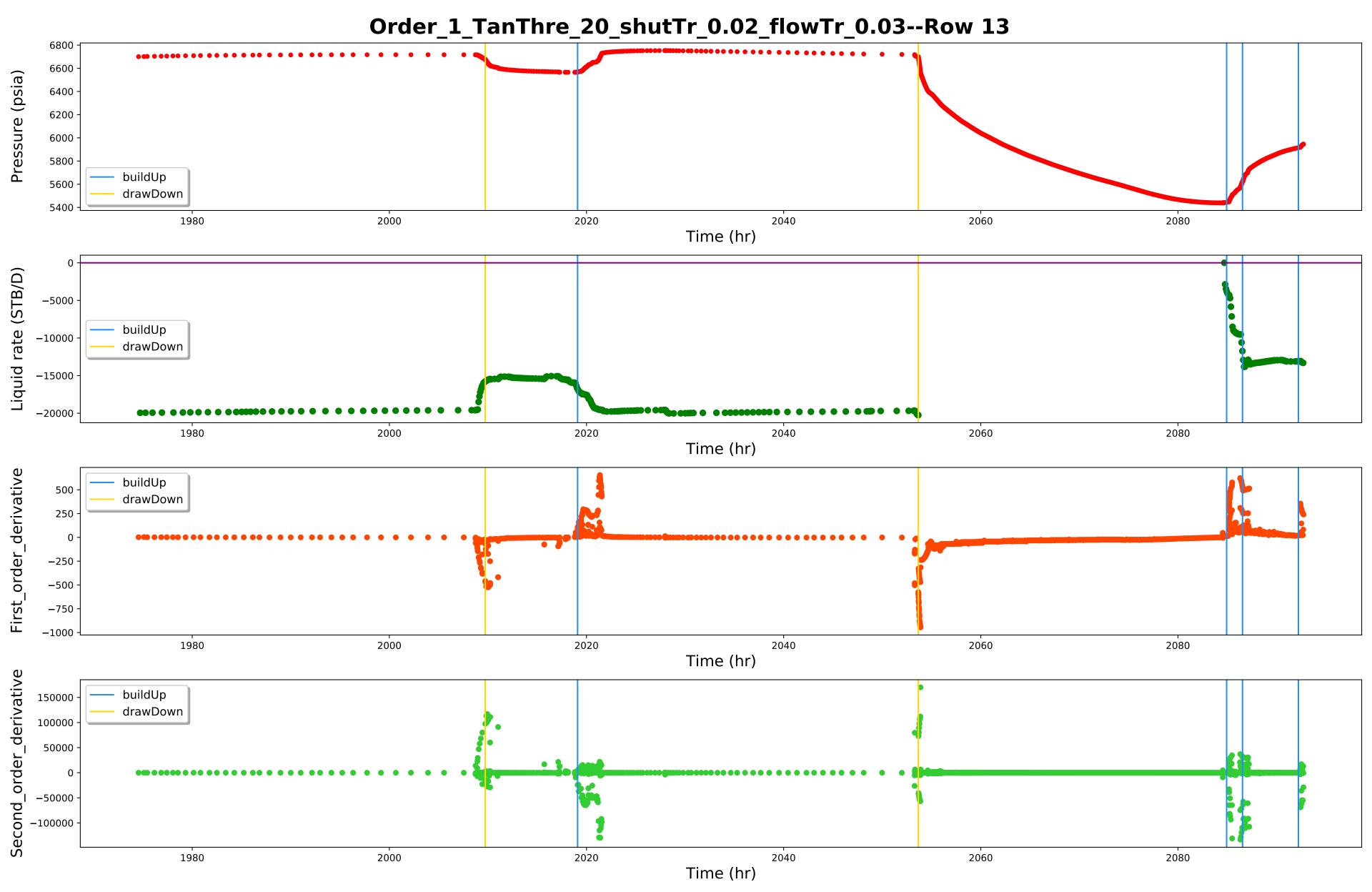




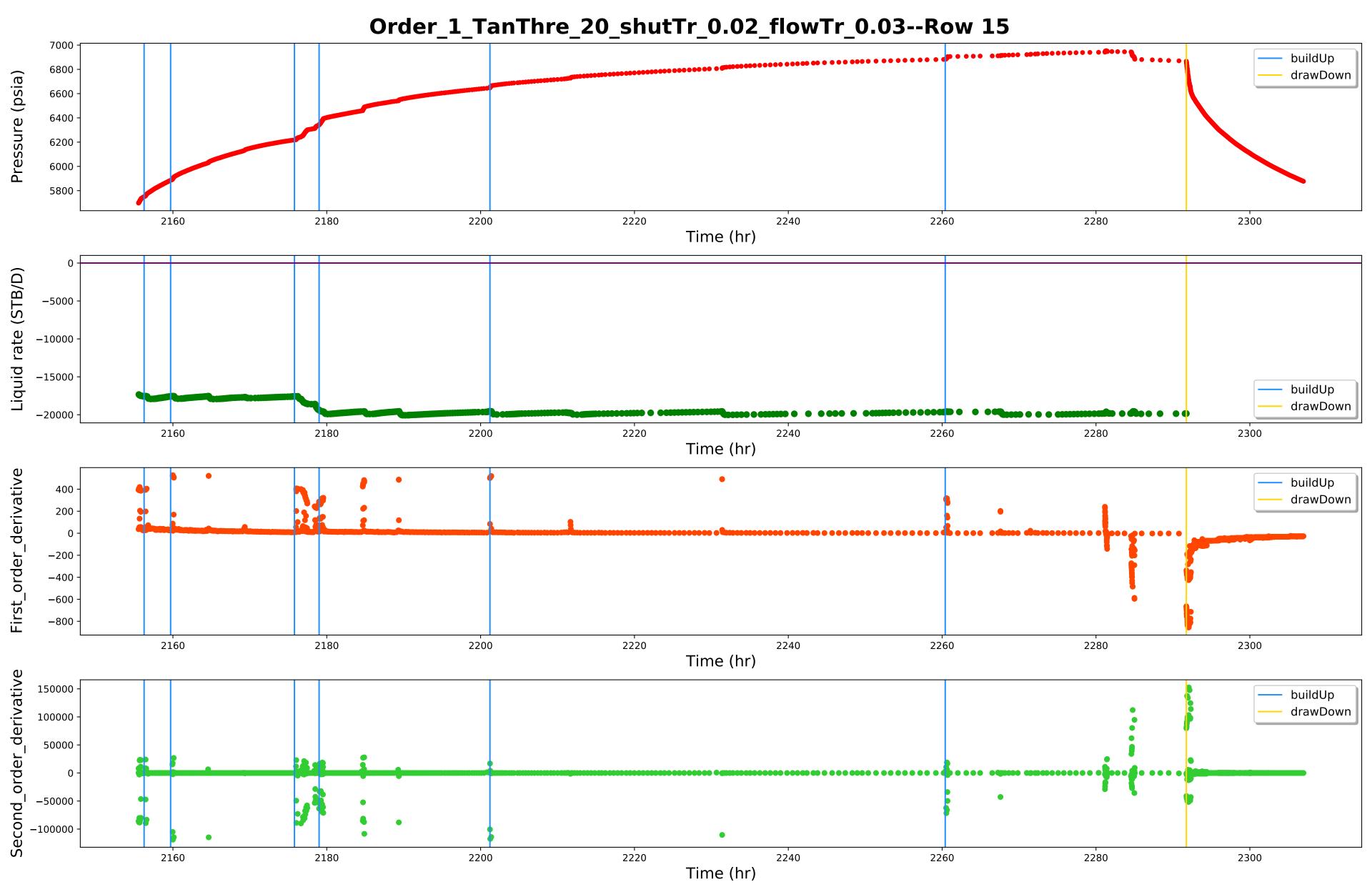


Order\_1\_TanThre\_20\_shutTr\_0.02\_flowTr\_0.03--Row 11 buildUp 6500 drawDown Pressure (psia) 6250 6000 5750 5500 5250 5000 1700 1600 1650 1800 1850 1750 Time (hr) Liquid rate (STB/D) -5000 buildUp -10000 drawDown -15000 1600 1650 1700 1750 1800 1850 Time (hr) First\_order\_derivative 750 buildUp drawDown500 250 0 <del>-</del>250 <del>-</del>500 <del>-</del>750 -1000 1650 1700 1600 1750 1800 1850 Time (hr) Second order derivative 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 1500000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 1500000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 1500000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 1500000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 1500000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 1500000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 1500000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 1500000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 1500000 - 150000 - 150000 - 150000 - 150000 - 150000 - 150000 - 15000000 - 1500000 - 1500000 - 1500000 - 1500000 - 150000 - 150000 buildUp drawDown 1600 1650 1700 1800 1850 1750 Time (hr)



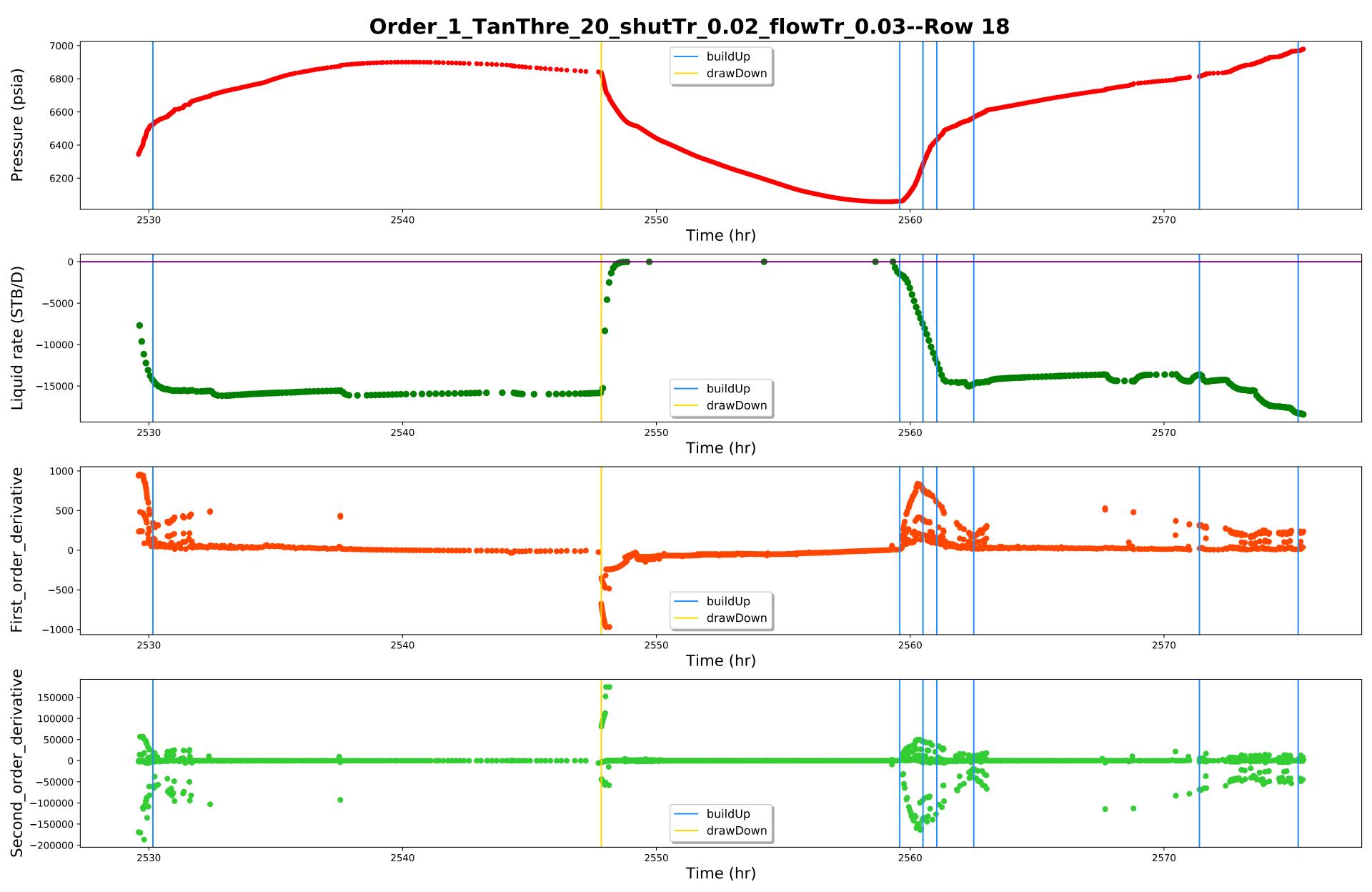


Order\_1\_TanThre\_20\_shutTr\_0.02\_flowTr\_0.03--Row 14 buildUp drawDown Pressure (psia) Time (hr) Liquid rate (STB/D) -5000 -10000 -15000 buildUp draw DownTime (hr) First\_order\_derivative -250 <del>-</del>500 buildUp -750 drawDownTime (hr) Second\_order\_derivative buildUp drawDown -50000 -100000 Time (hr)



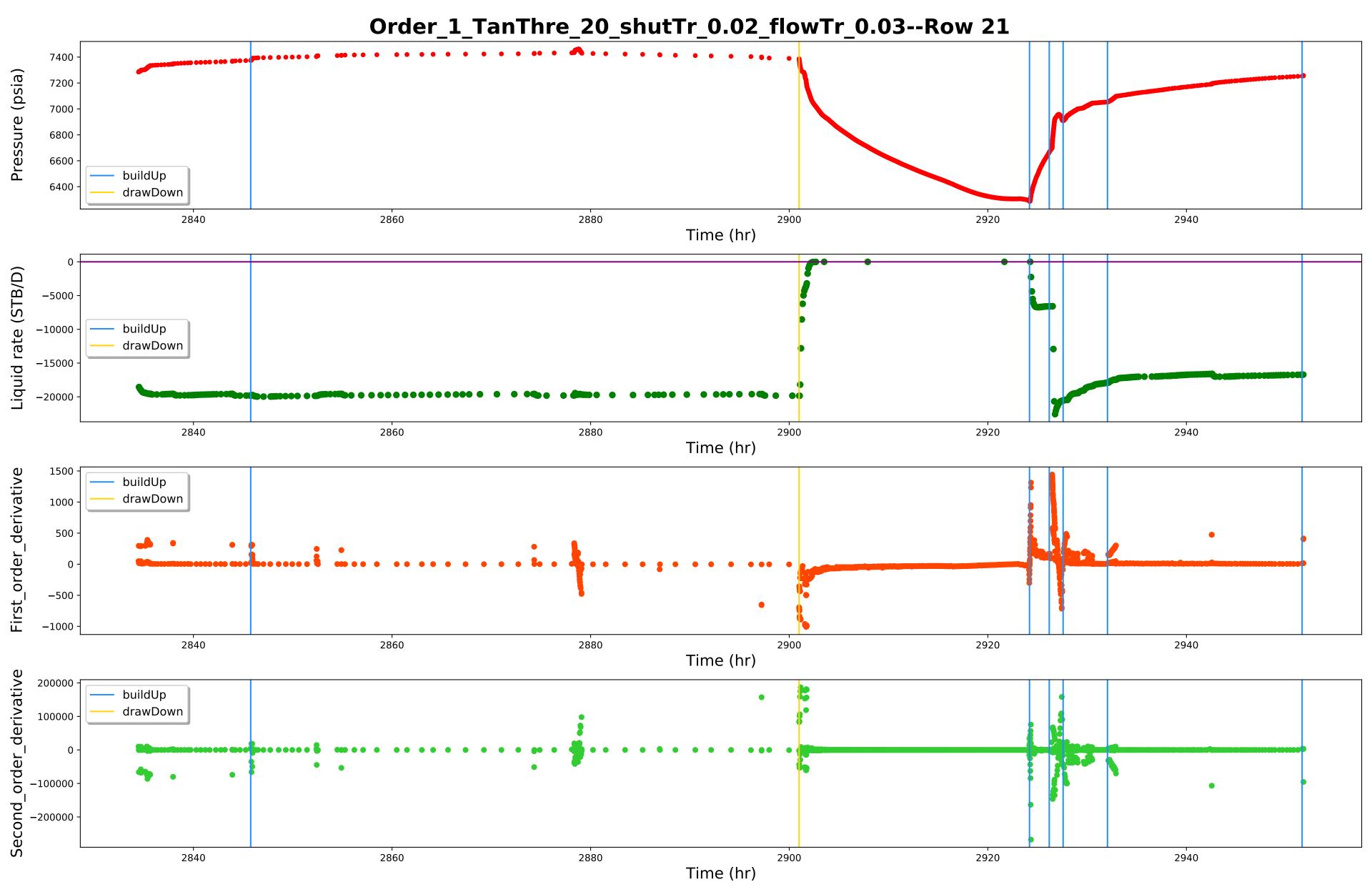
Order\_1\_TanThre\_20\_shutTr\_0.02\_flowTr\_0.03--Row 16 buildUp Pressure (psia) Time (hr) Liquid rate (STB/D) -5000 -10000 -15000 buildUp Time (hr) First\_order\_derivative buildUp Time (hr) buildUp Time (hr)

Order\_1\_TanThre\_20\_shutTr\_0.02\_flowTr\_0.03--Row 17 Pressure (psia) buildUp drawDown Time (hr) Liquid rate (STB/D) -5000 buildUp -10000 drawDown -15000 -20000 Time (hr) First\_order\_derivative <del>-</del>500 buildUp -1000 drawDown Time (hr) Second\_order\_derivative buildUp drawDown -50000 -100000 Time (hr)

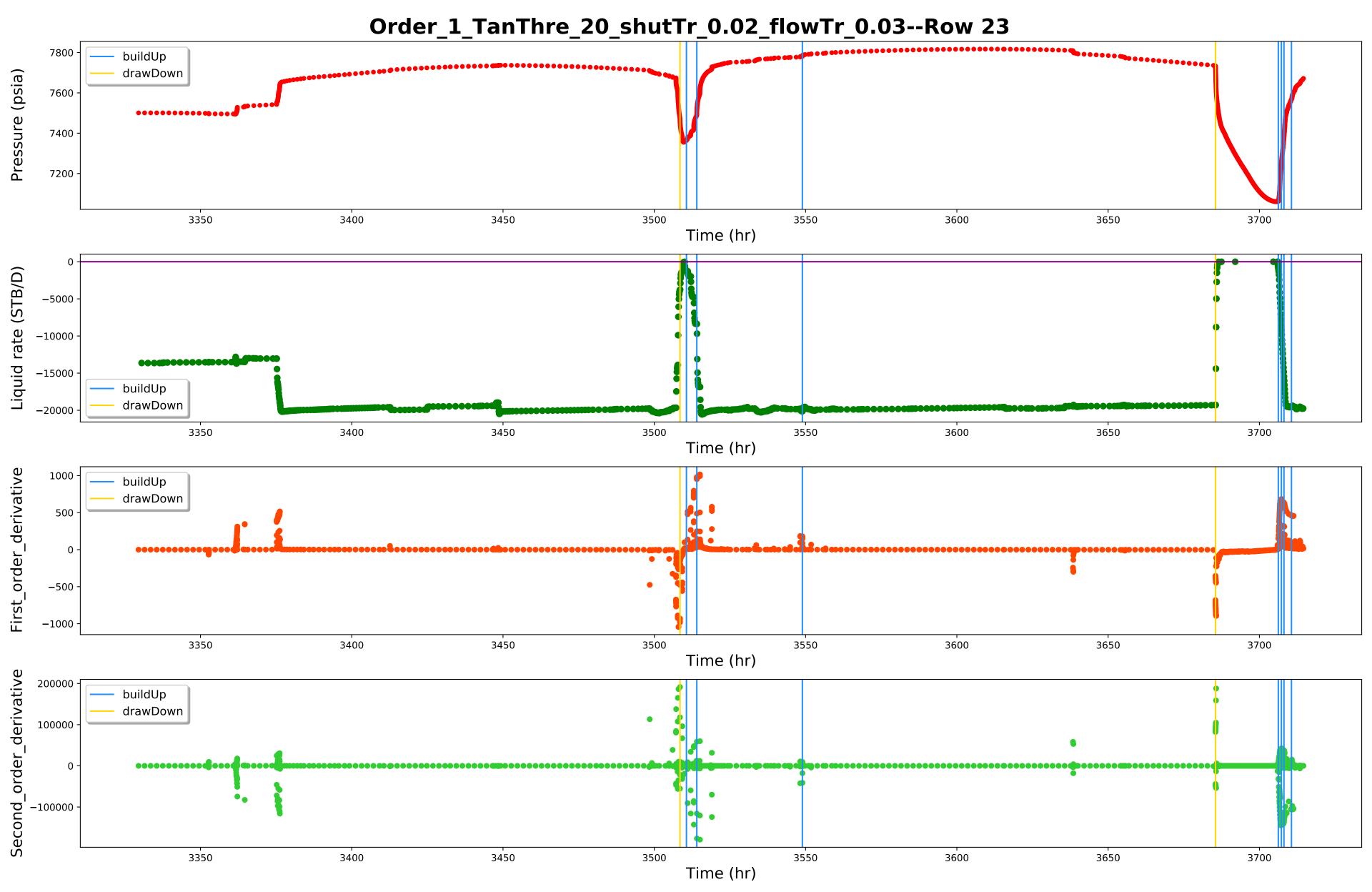


Order\_1\_TanThre\_20\_shutTr\_0.02\_flowTr\_0.03--Row 19 buildUp drawDown Pressure (psia) Time (hr) Liquid rate (STB/D) -5000 buildUp -10000 drawDown -15000 Time (hr) First\_order\_derivative <del>-</del>500 buildUp drawDown -1000Time (hr) Second order derivative buildUp drawDown Time (hr)

Order\_1\_TanThre\_20\_shutTr\_0.02\_flowTr\_0.03--Row 20 buildUp Pressure (psia) Time (hr) Liquid rate (STB/D) -5000 -10000 -15000 buildUp Time (hr) First\_order\_derivative buildUp 200 -Time (hr) Second order derivative buildUp Time (hr)



Order\_1\_TanThre\_20\_shutTr\_0.02\_flowTr\_0.03--Row 22 Pressure (psia) buildUp drawDown Time (hr) Liquid rate (STB/D) -5000 -10000 -15000 buildUp drawDown -20000 Time (hr) First\_order\_derivative buildUp drawDown -250 -500 <del>-</del>750 Time (hr) Second order derivative 100000 -200000 -200000 -200000 buildUp drawDown Time (hr)



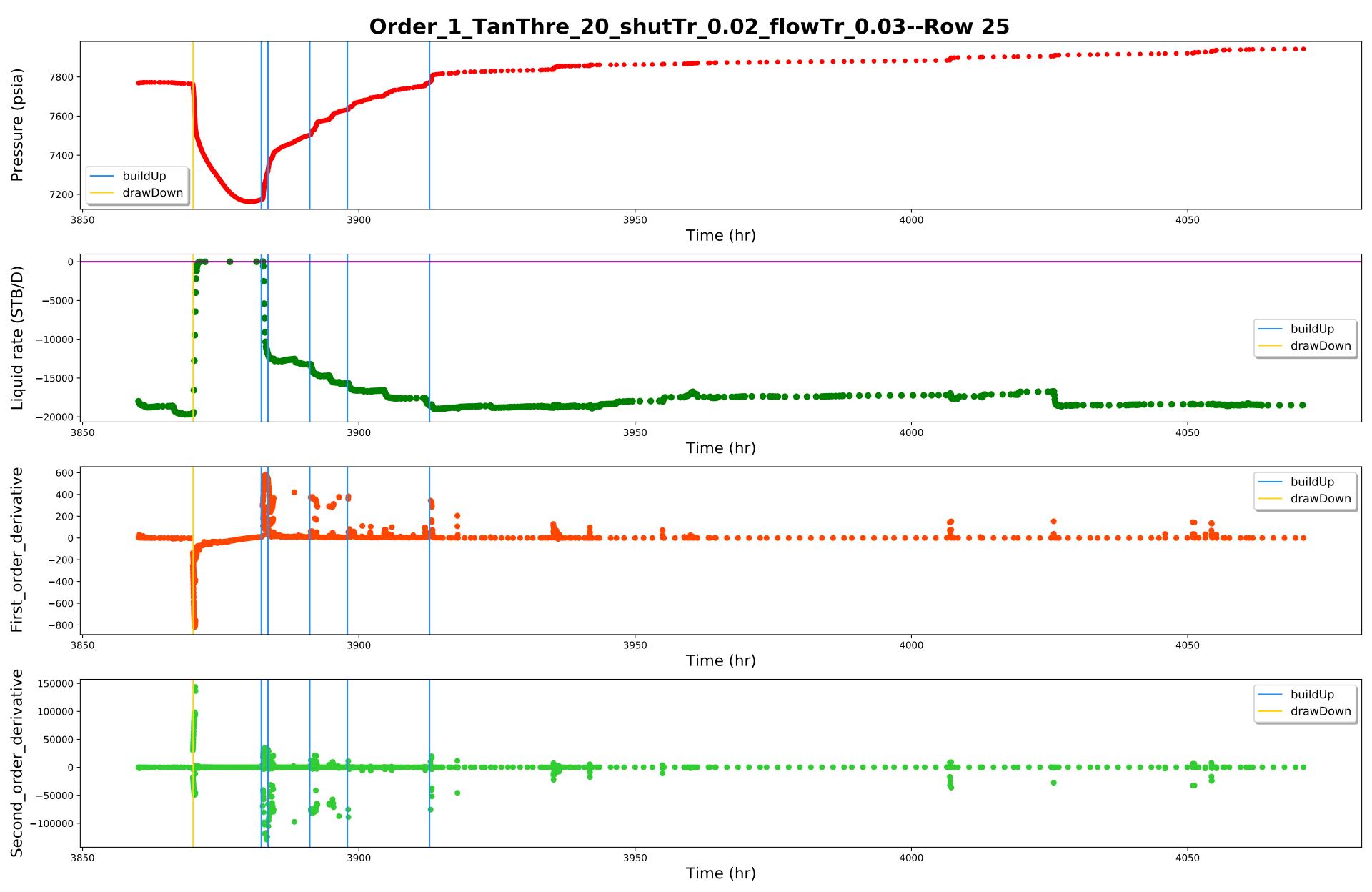
Order\_1\_TanThre\_20\_shutTr\_0.02\_flowTr\_0.03--Row 24 Pressure (psia) buildUp drawDownTime (hr) Liquid rate (STB/D) -5000 buildUp -10000 drawDown -15000 -20000 Time (hr) First\_order\_derivative buildUp drawDown<del>-</del>250 -500 <del>-</del>750 Time (hr) Second order derivative

100000

-50000

-150000

-150000 buildUp drawDown Time (hr)



buildup:142, drawdown:31