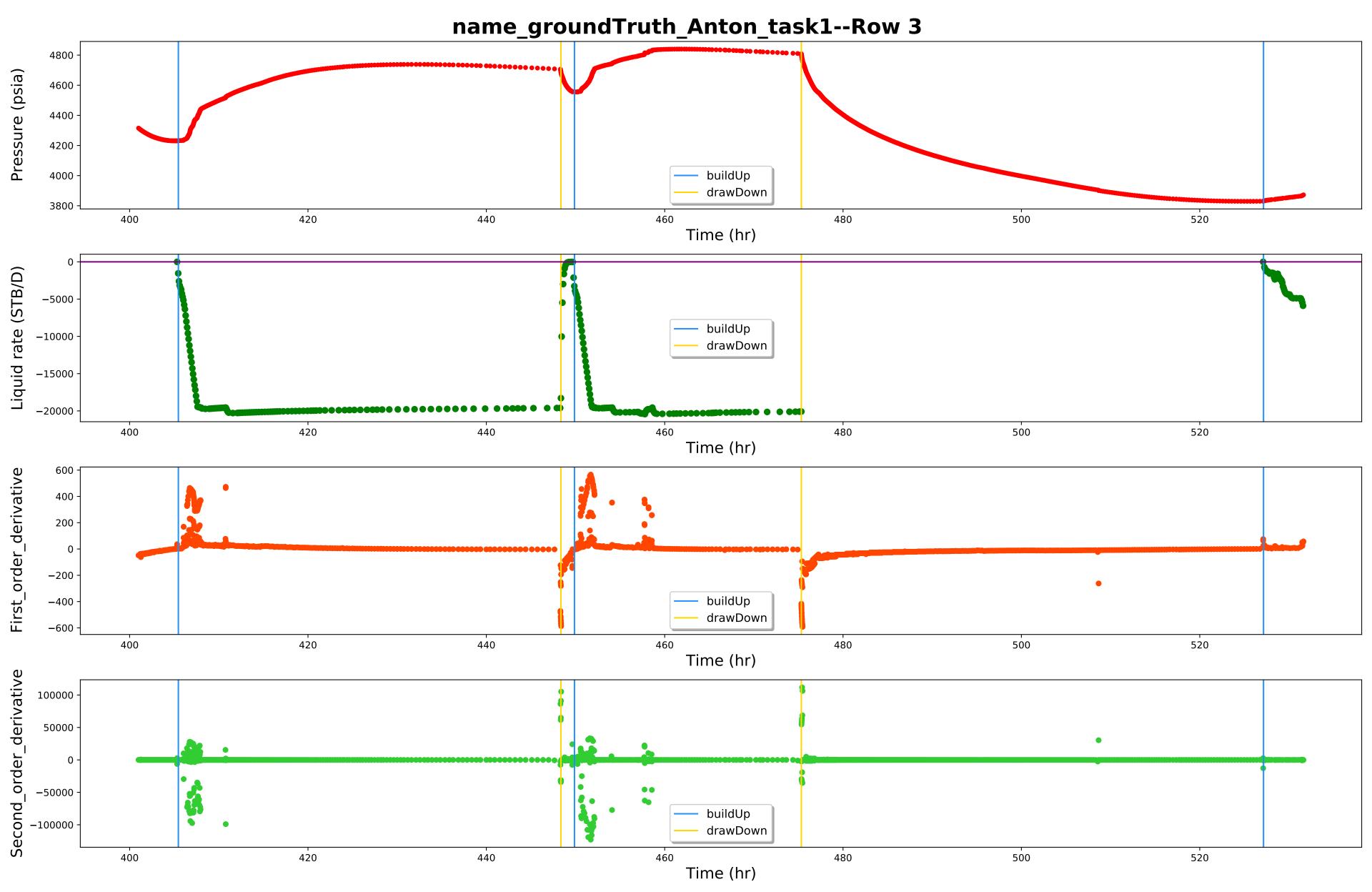
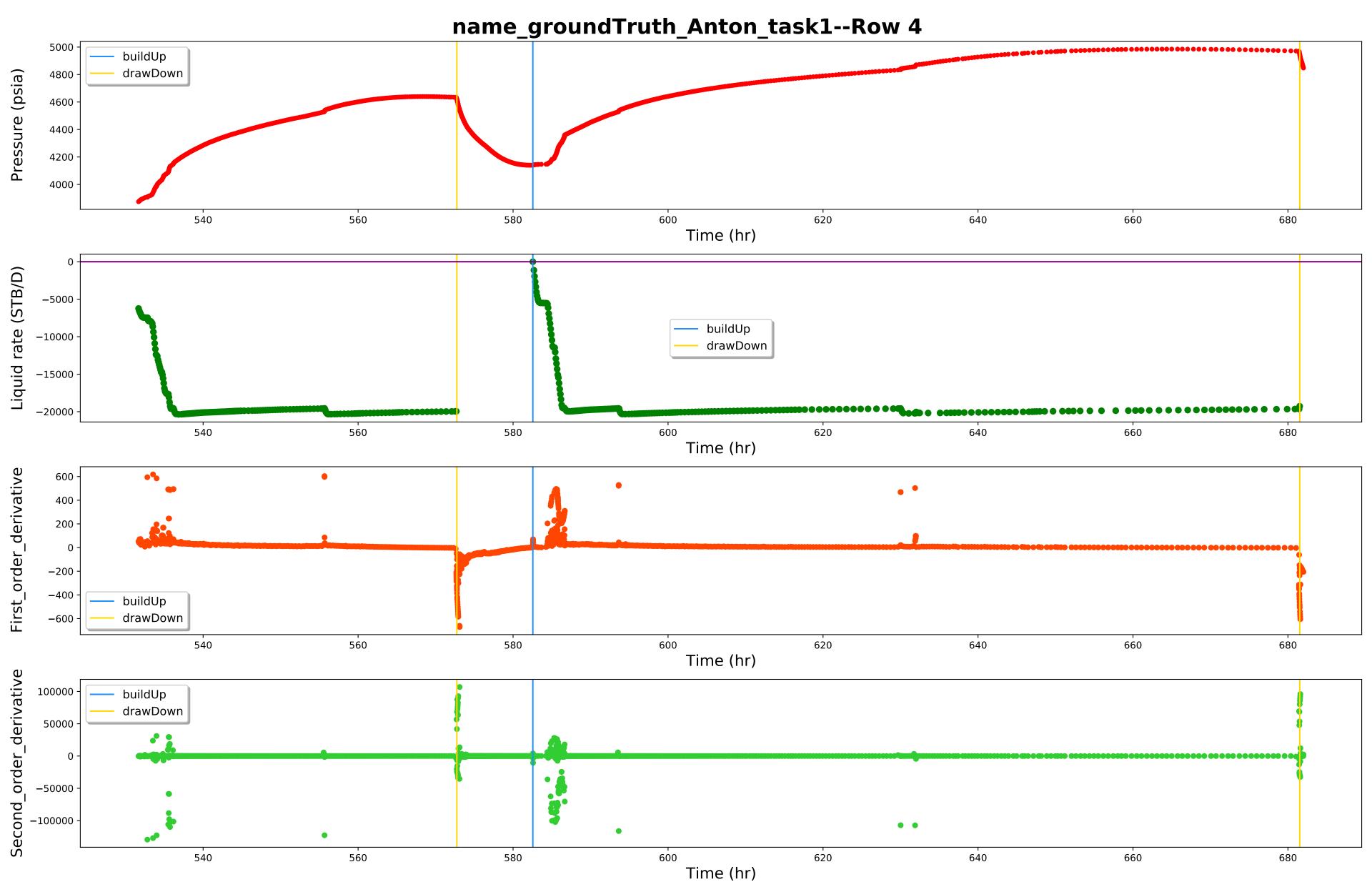
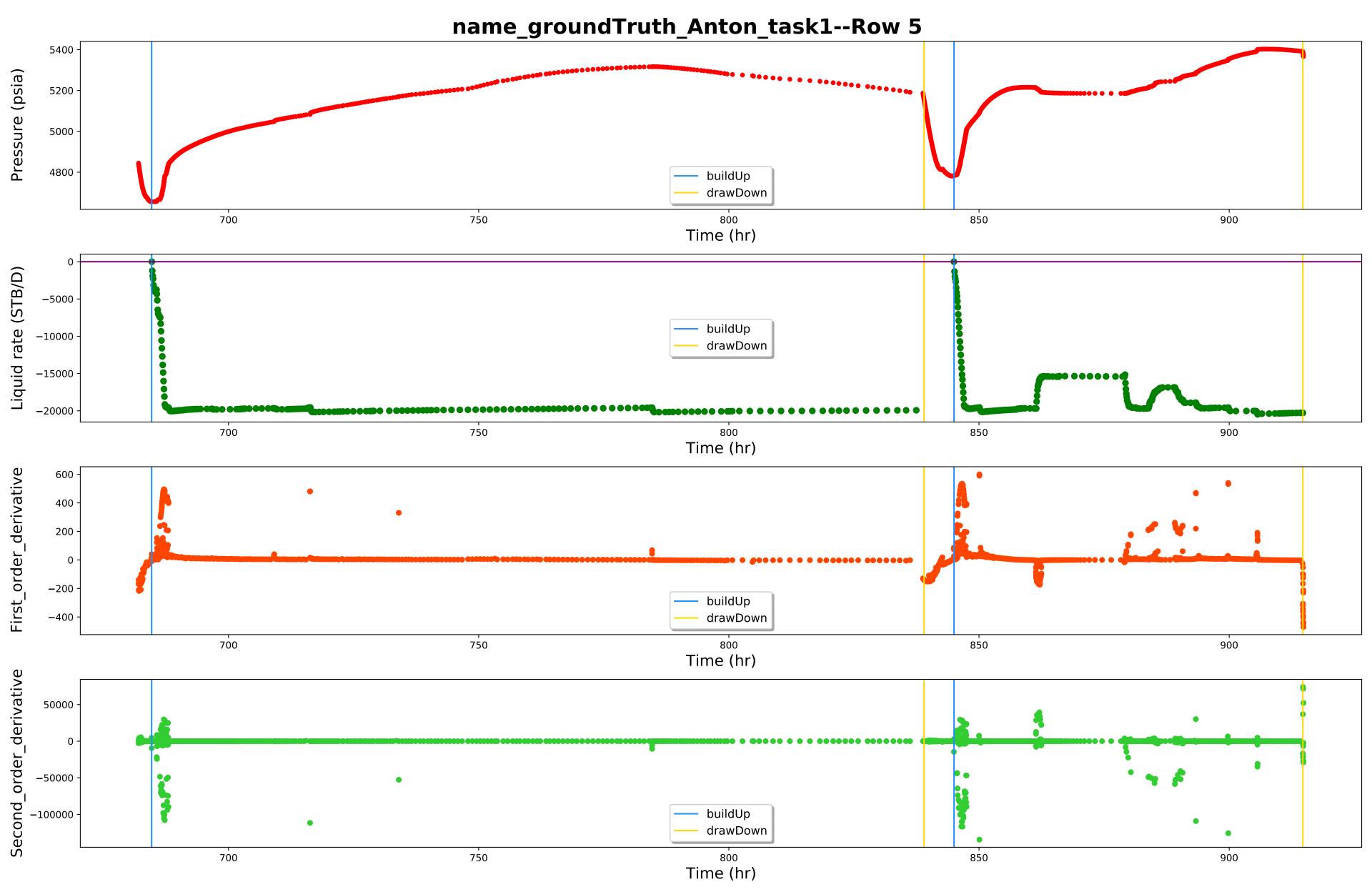
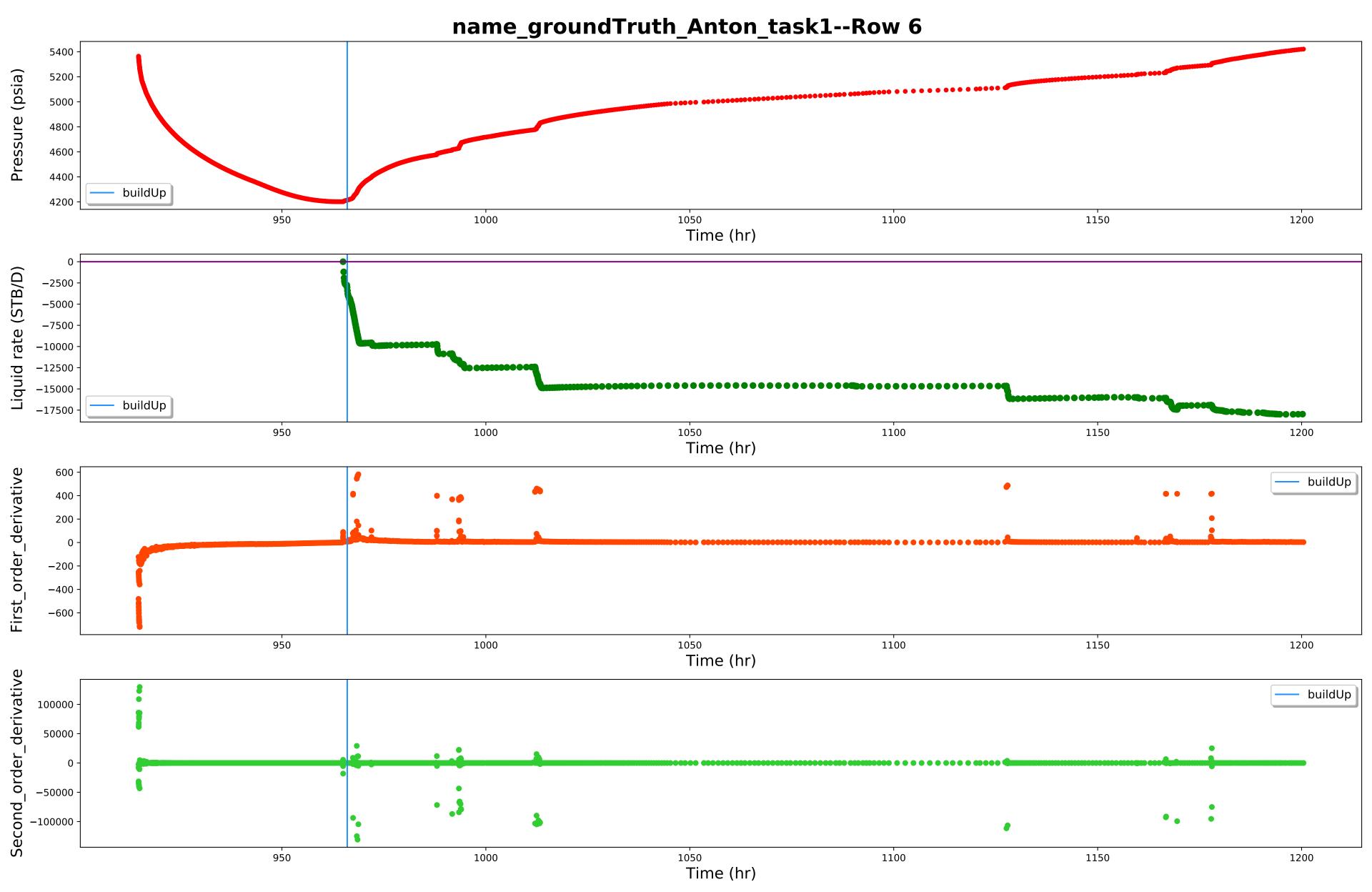


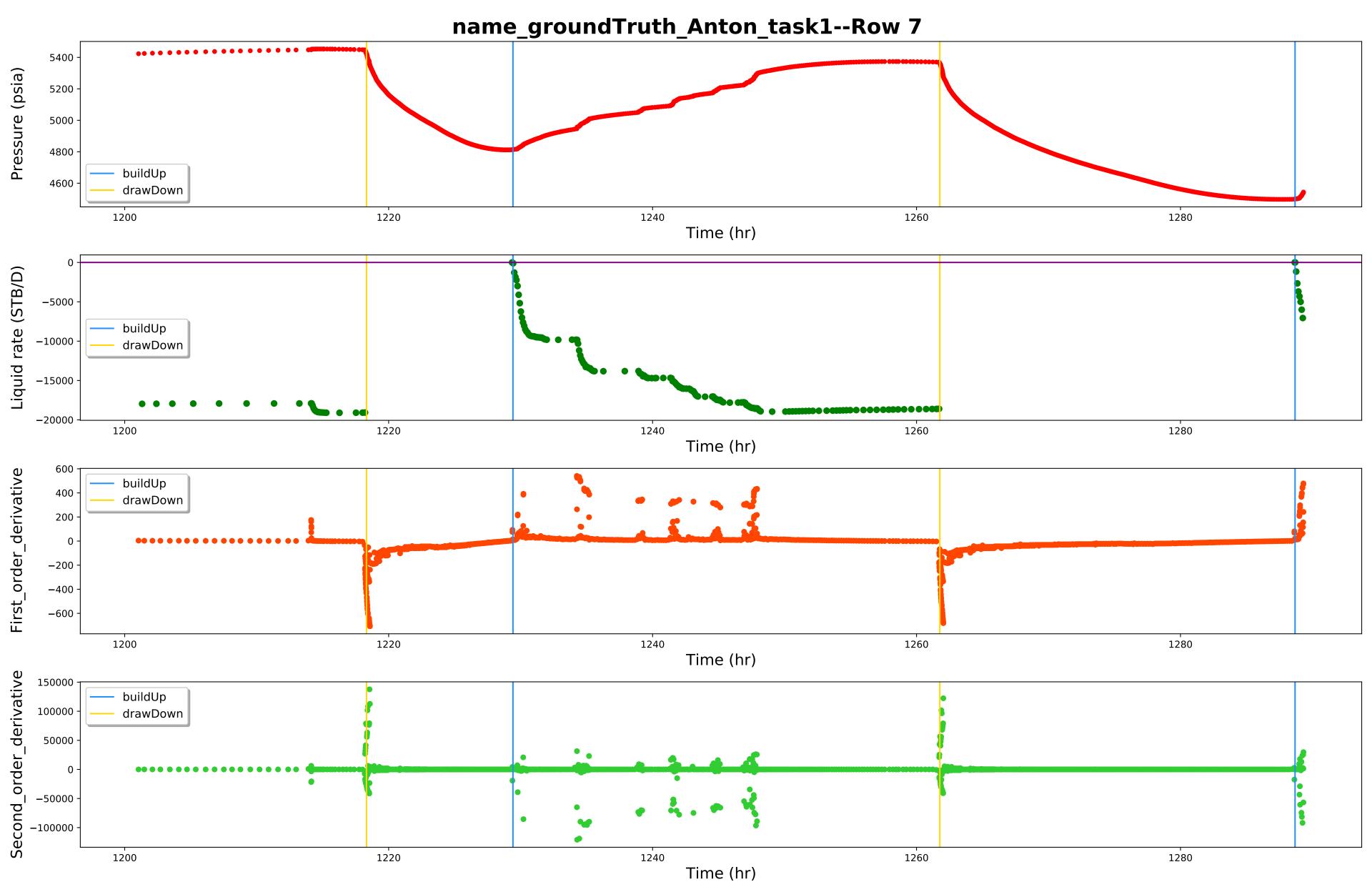
name_groundTruth_Anton_task1--Row 2 drawDown Pressure (psia) Time (hr) Liquid rate (STB/D) -5000 -10000 drawDown -15000 Time (hr) First_order_derivative ${\sf drawDown}$ -200 -400 Time (hr) Second_order_derivative 00000 -100000 drawDown • Time (hr)

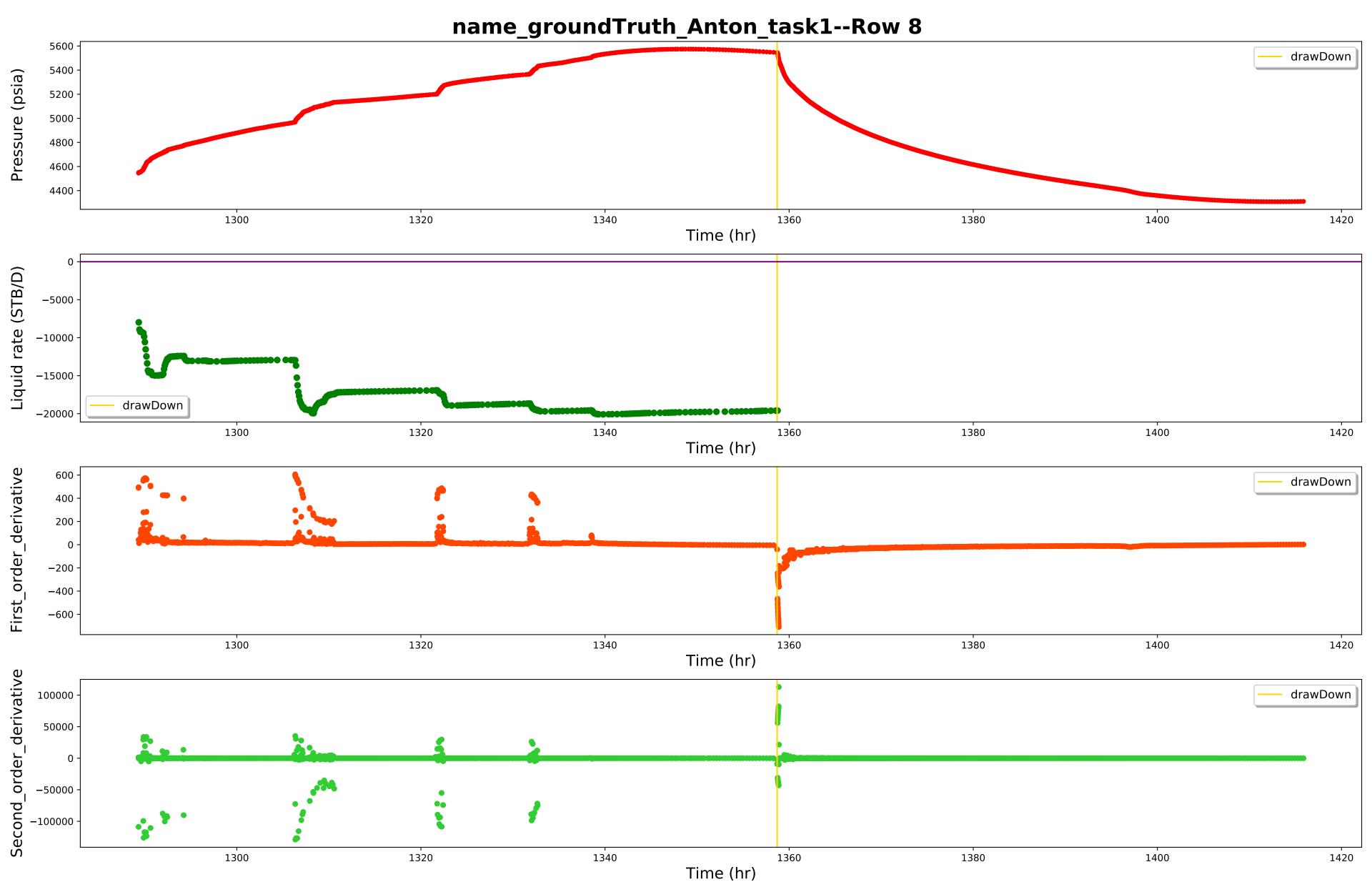


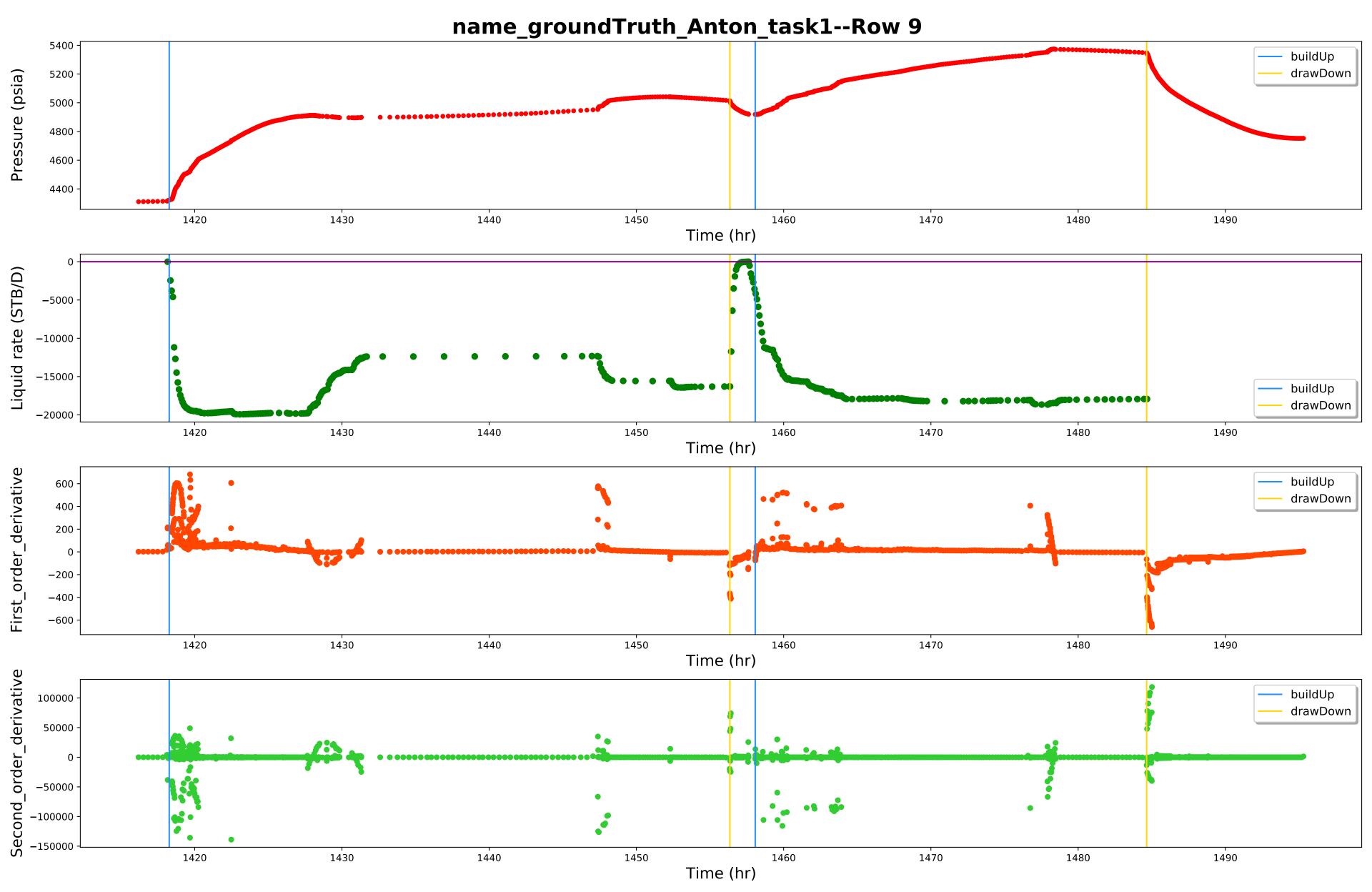


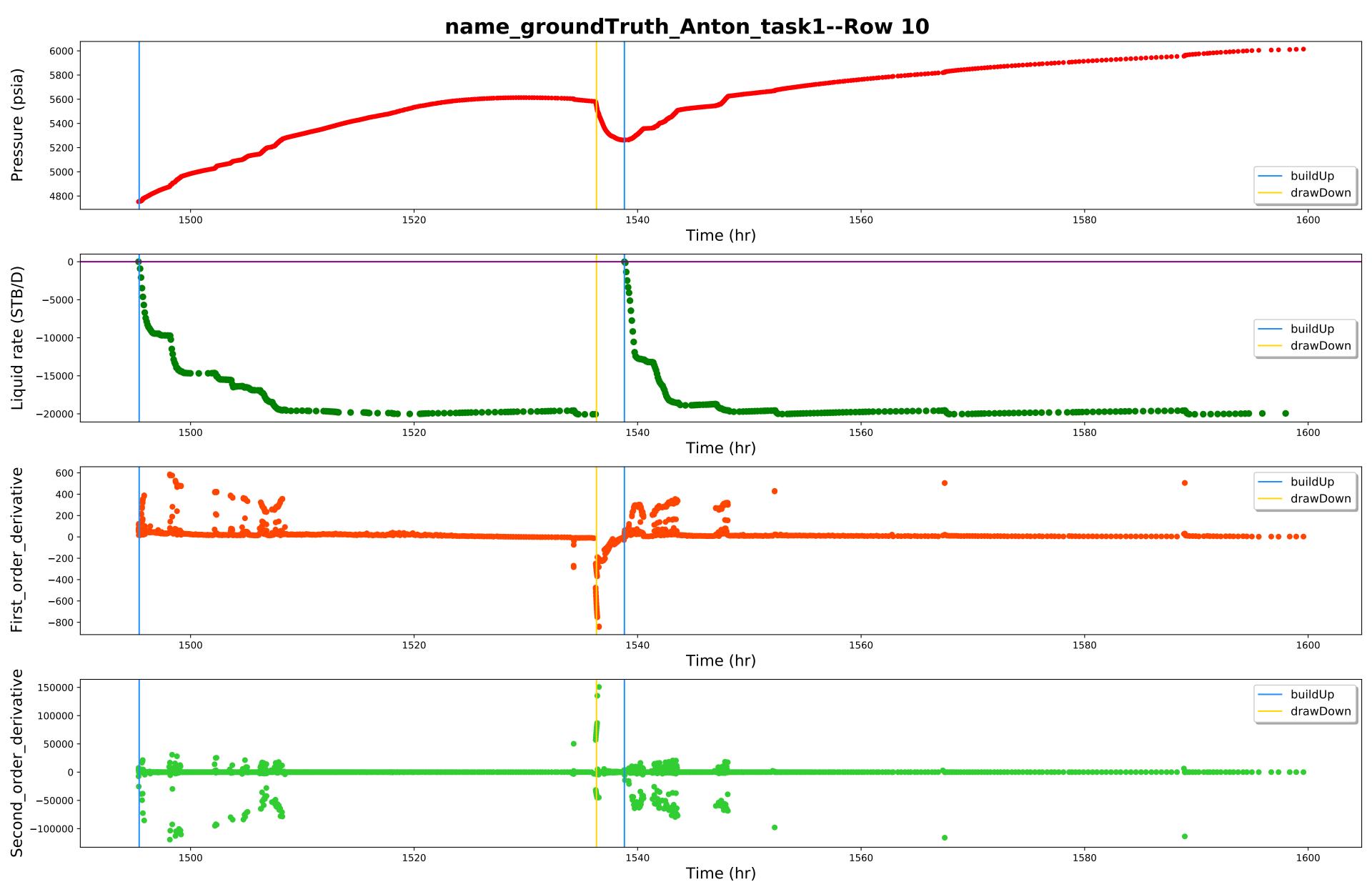






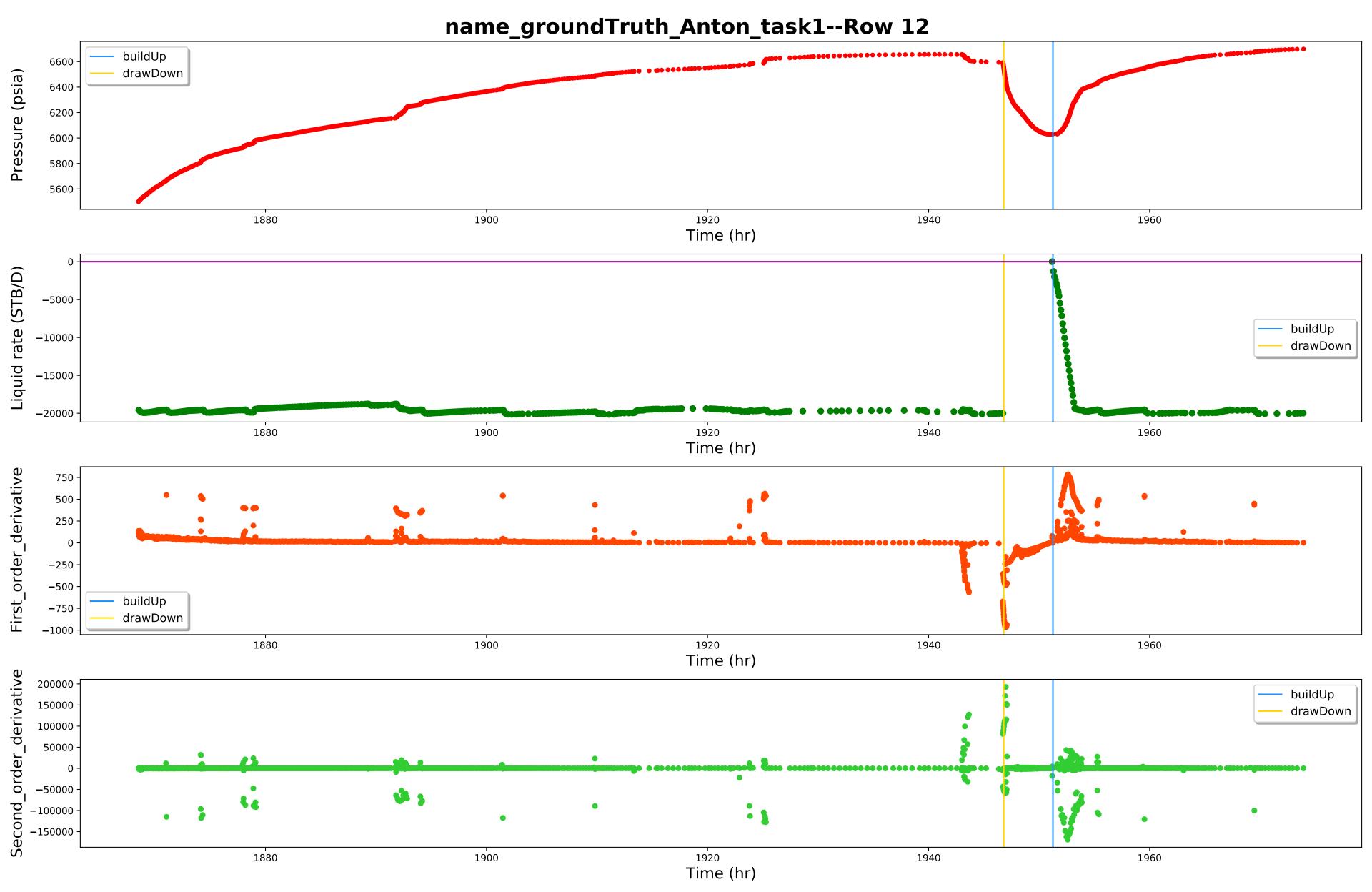


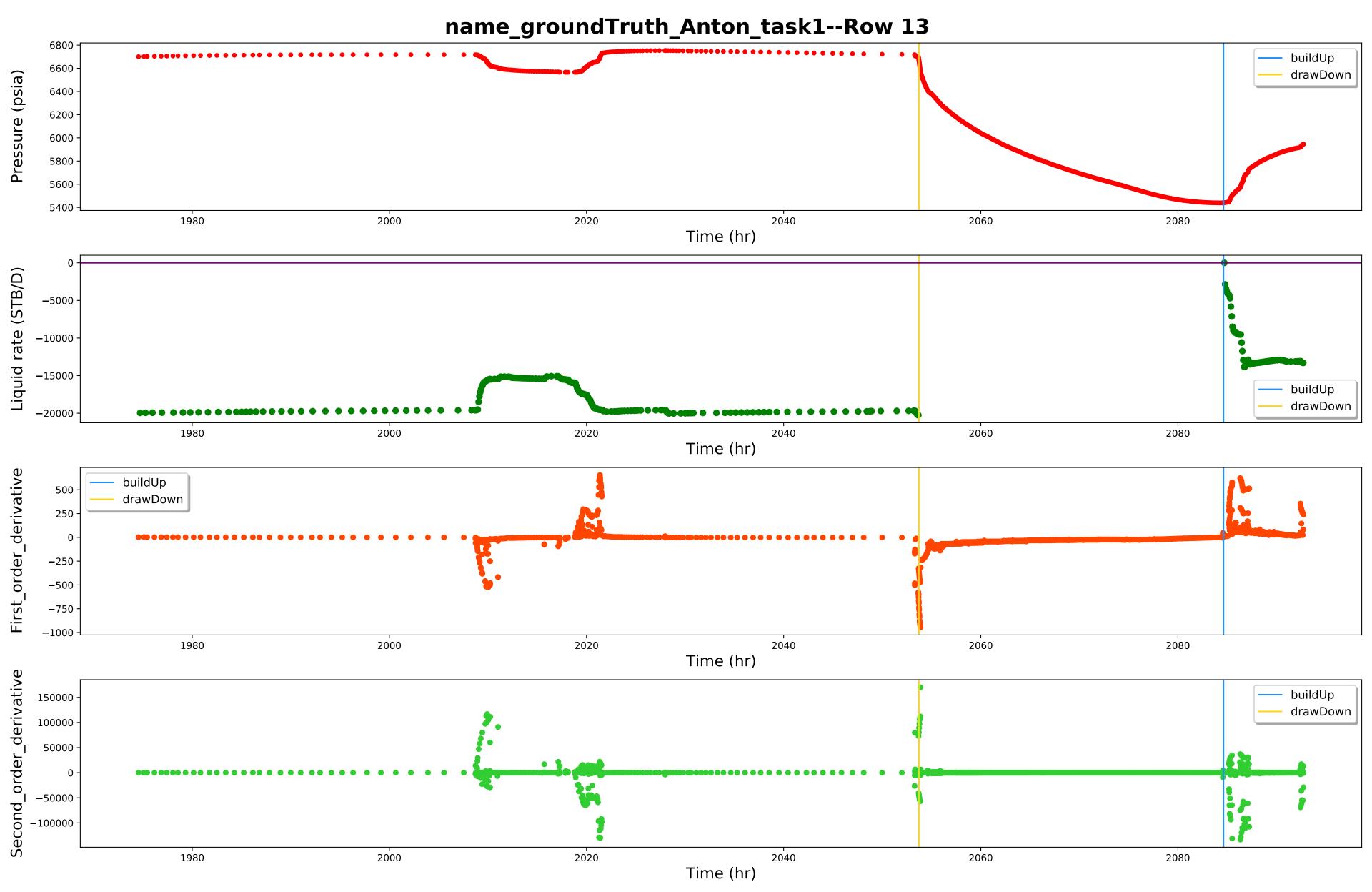


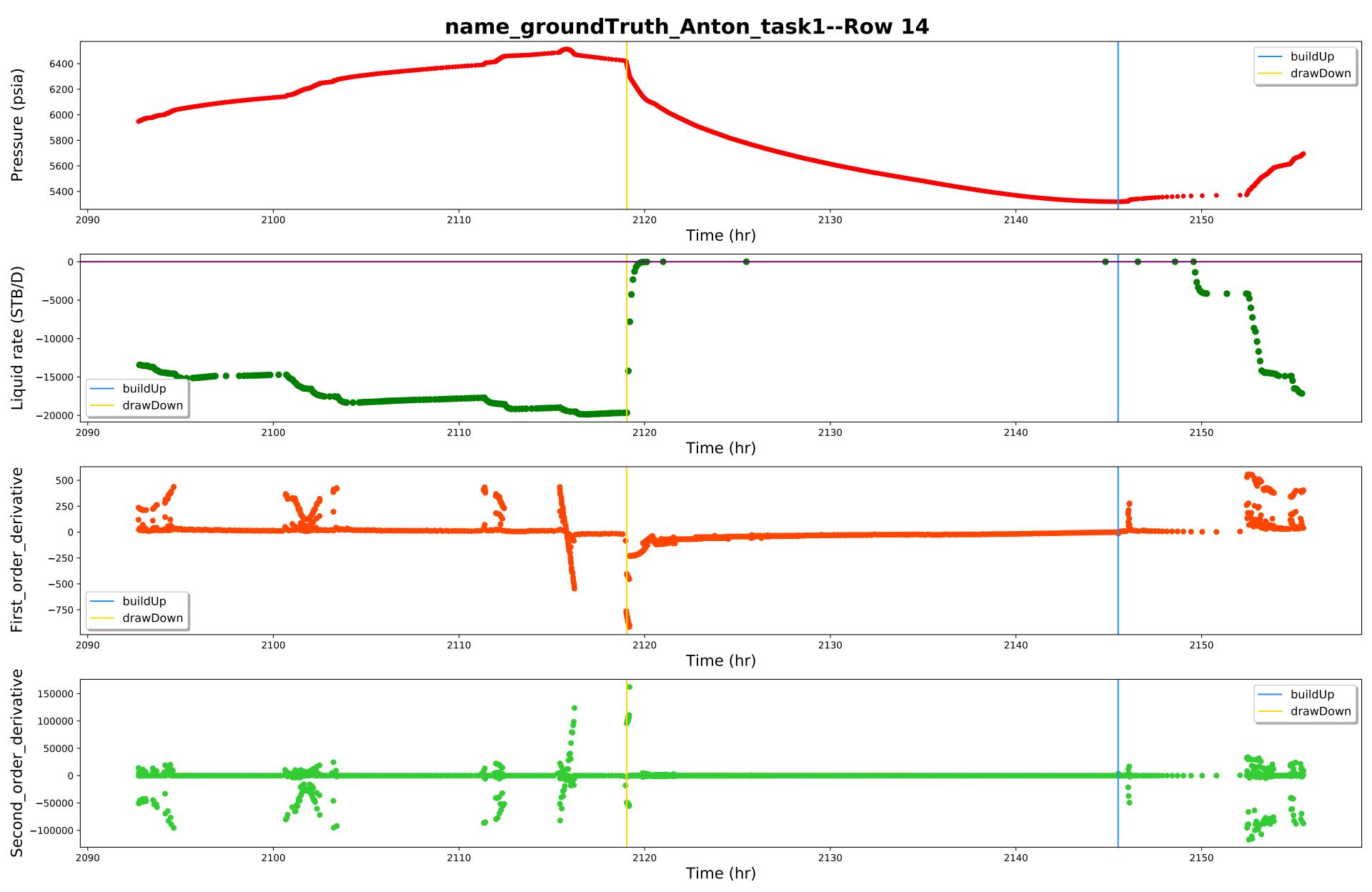


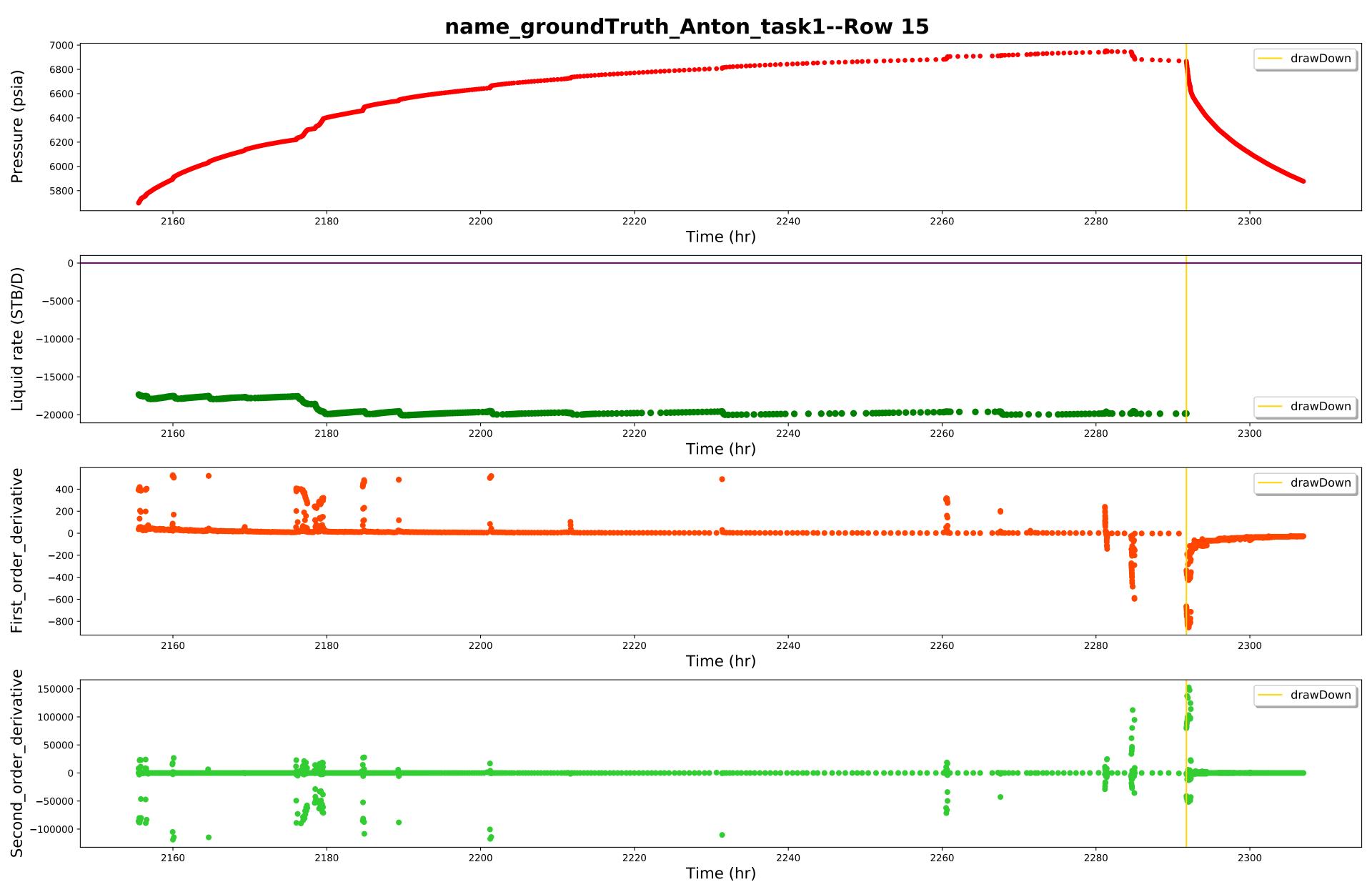
name_groundTruth_Anton_task1--Row 11 buildUp 6500 drawDown Pressure (psia) 6250 6000 5750 5500 5250 5000 1650 1700 1600 1750 1800 1850 Time (hr) Liquid rate (STB/D) -5000 buildUp -10000 drawDown -15000 1600 1650 1700 1750 1800 1850 Time (hr) First_order_derivative buildUp 750 drawDown500 250 0 -250 -500 -750 -1000 1700 1600 1650 1750 1850 1800 Time (hr) Second order derivative

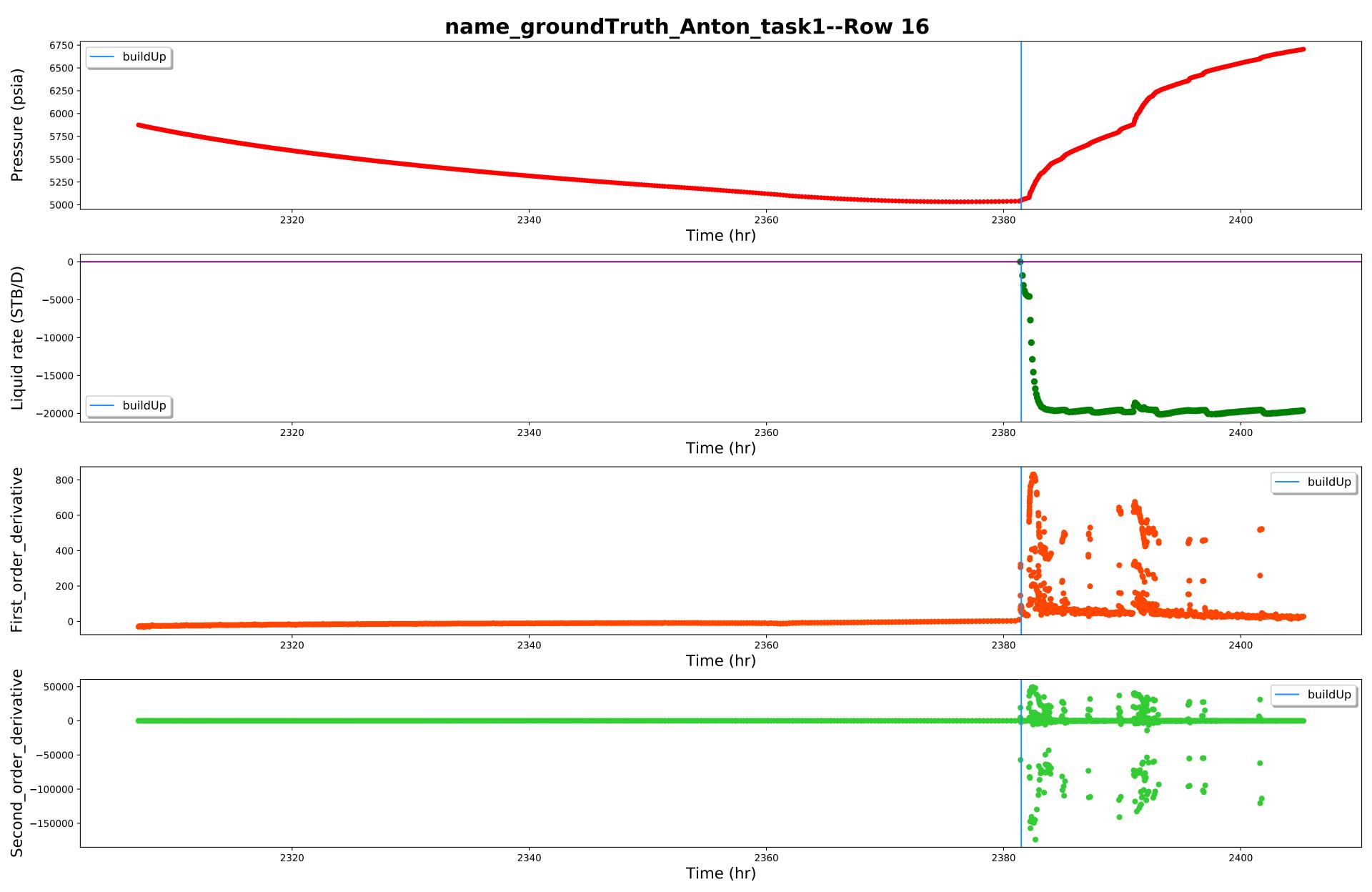
100000 - 50000 - -150 buildUp drawDown 1600 1650 1700 1750 1800 1850 Time (hr)



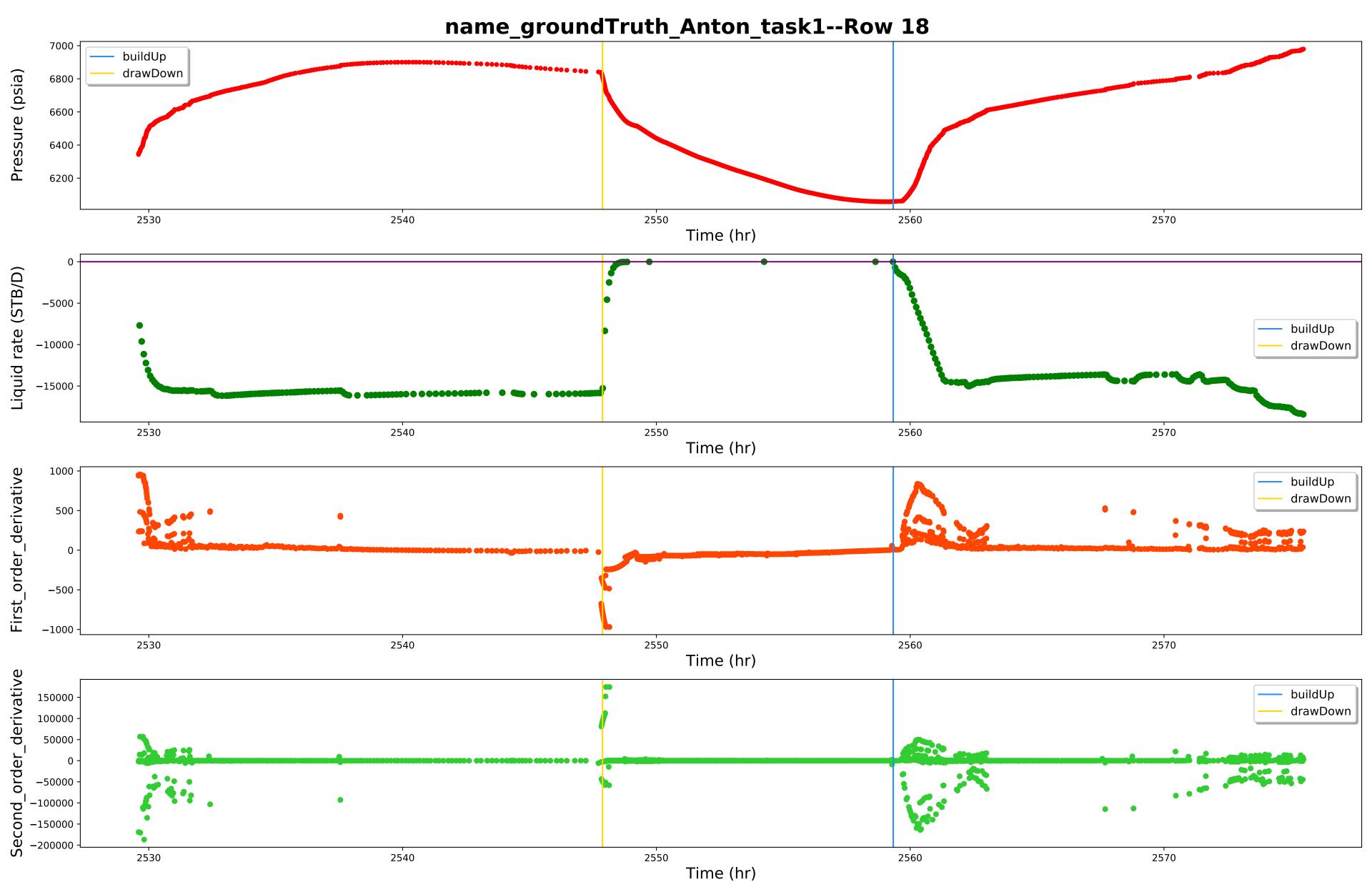


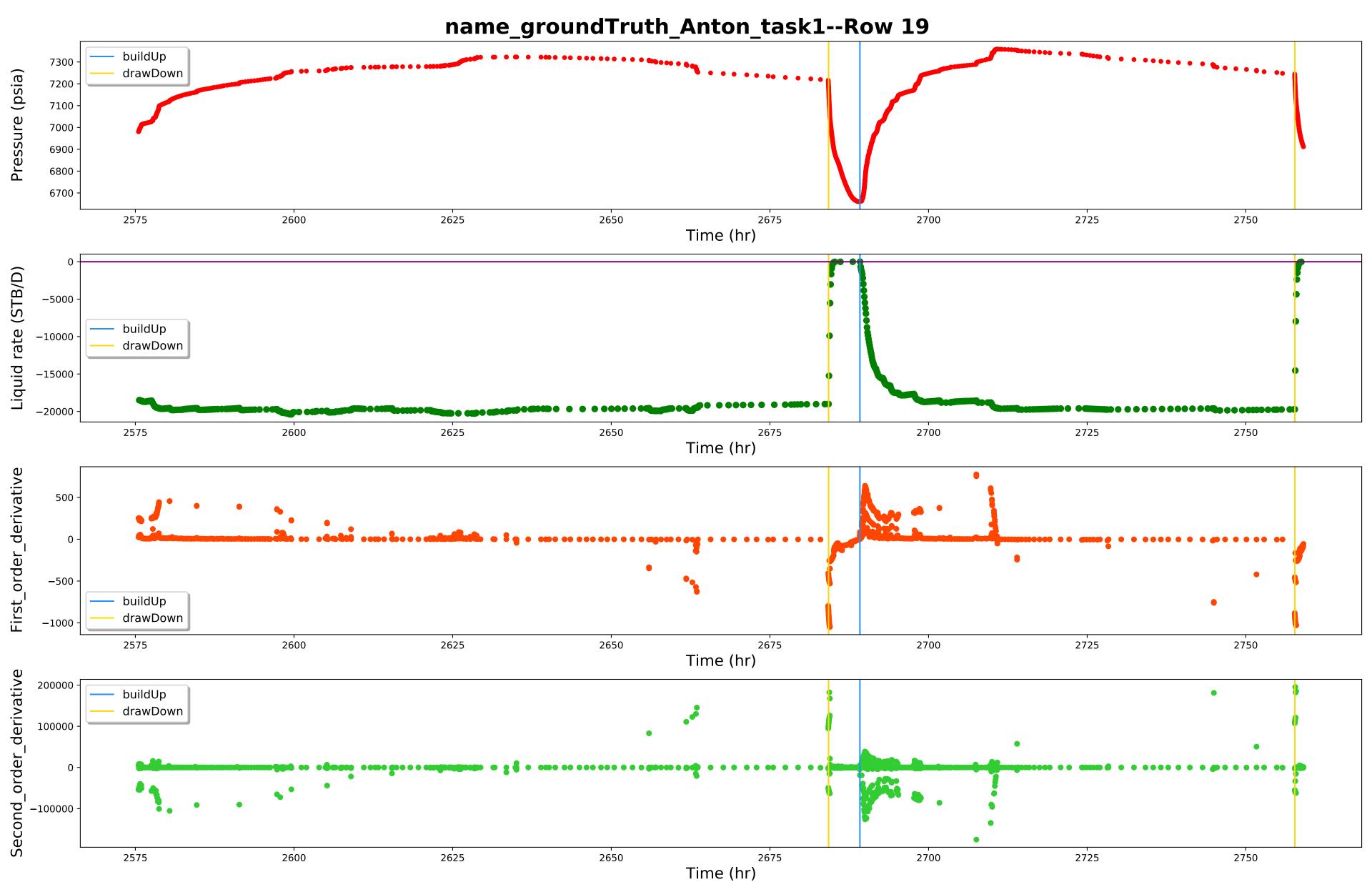


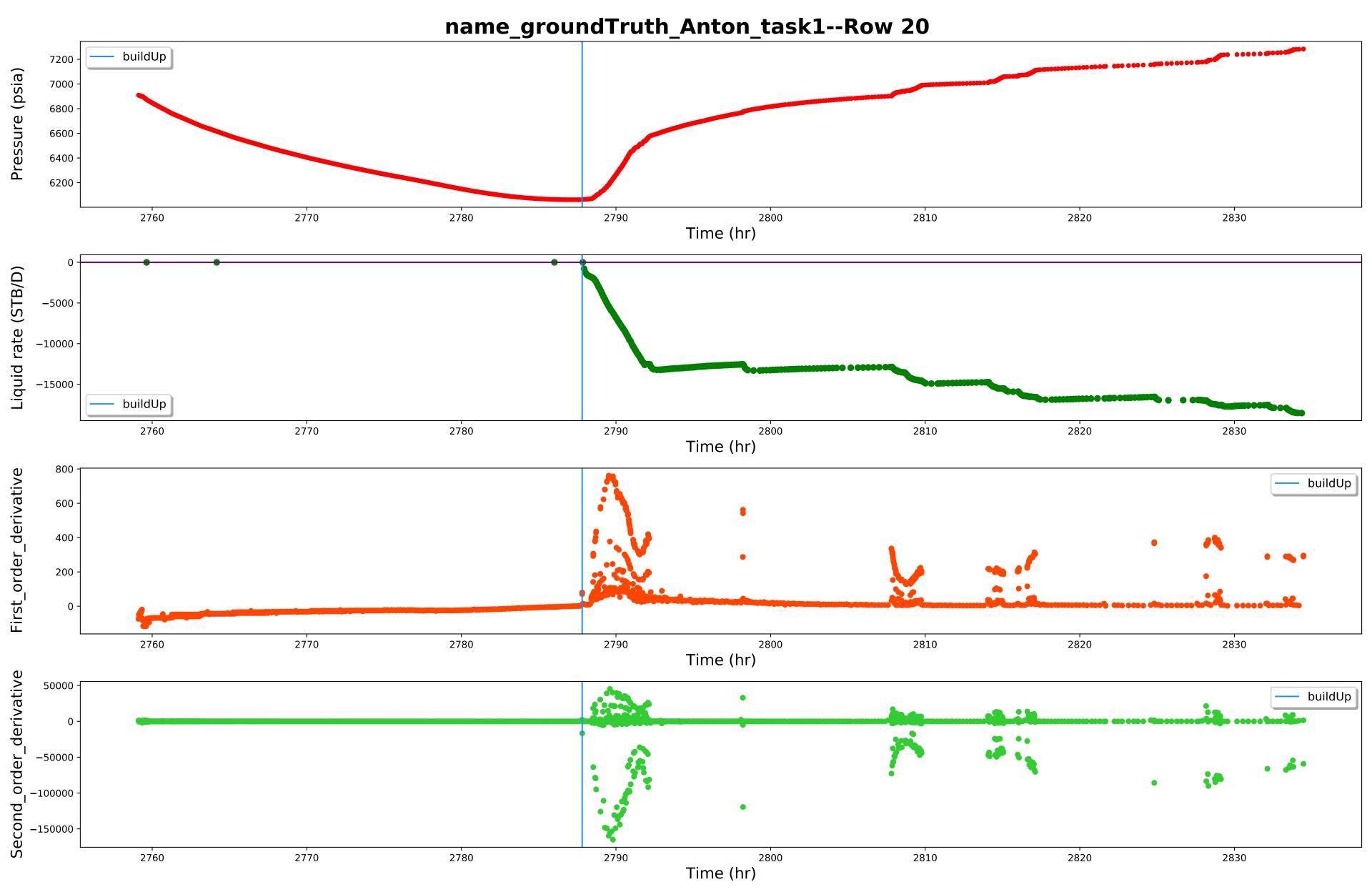


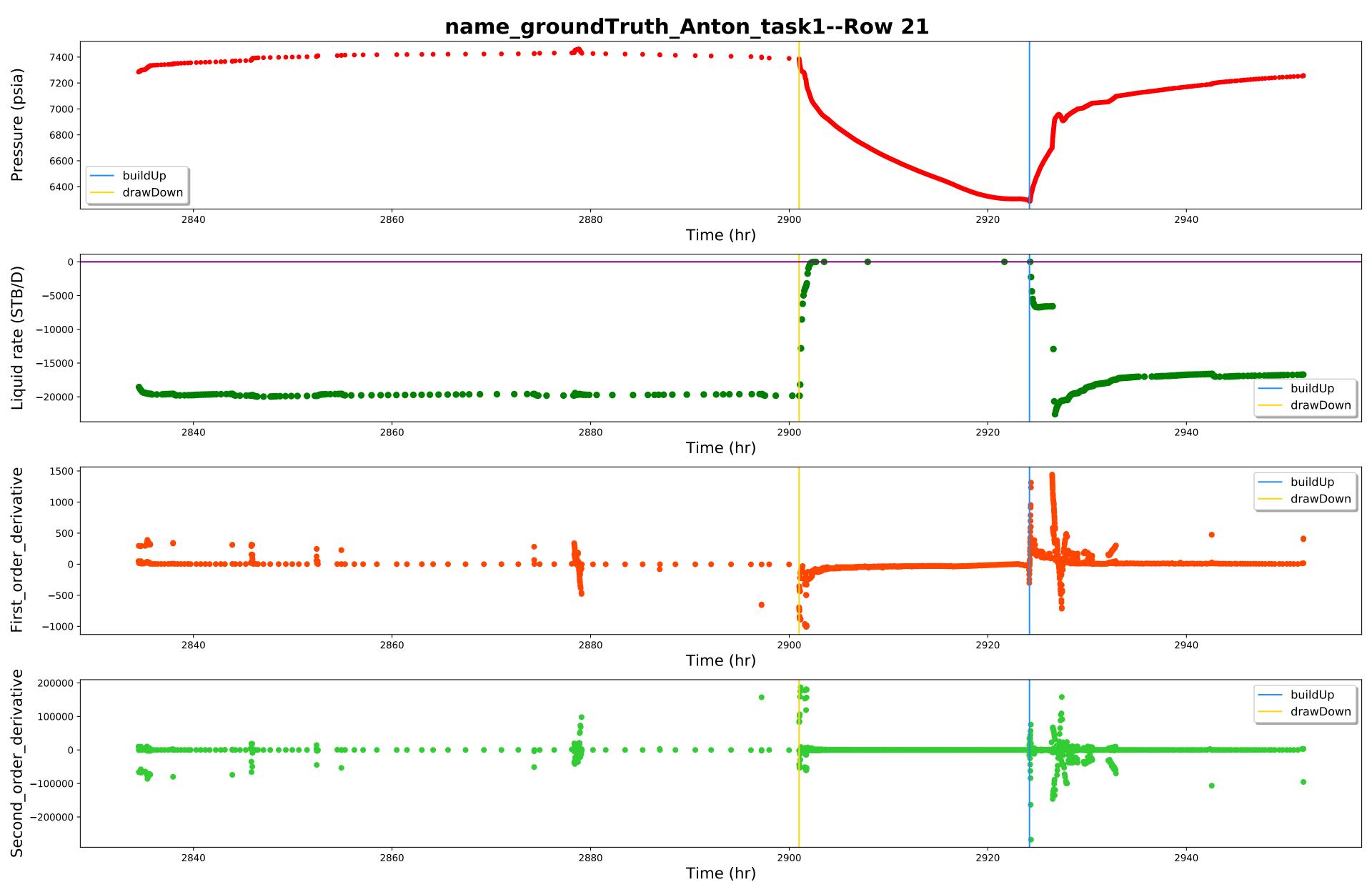


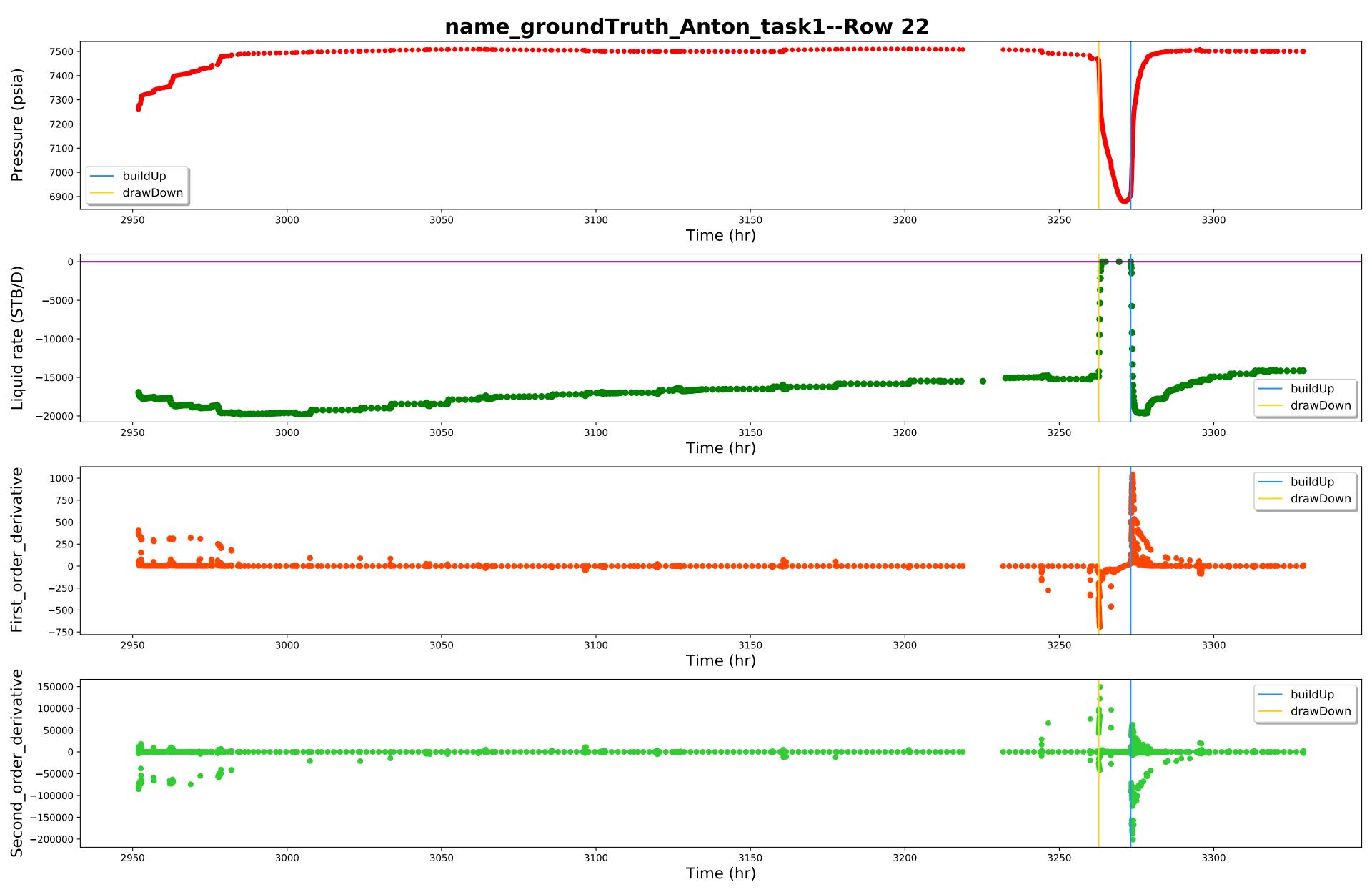
name_groundTruth_Anton_task1--Row 17 buildUp Pressure (psia) draw DownTime (hr) Liquid rate (STB/D) -5000 buildUp -10000 drawDown -15000 -20000 Time (hr) First_order_derivative -500 buildUp -1000 drawDown Time (hr) Second_order_derivative buildUp drawDown-50000 -100000 Time (hr)

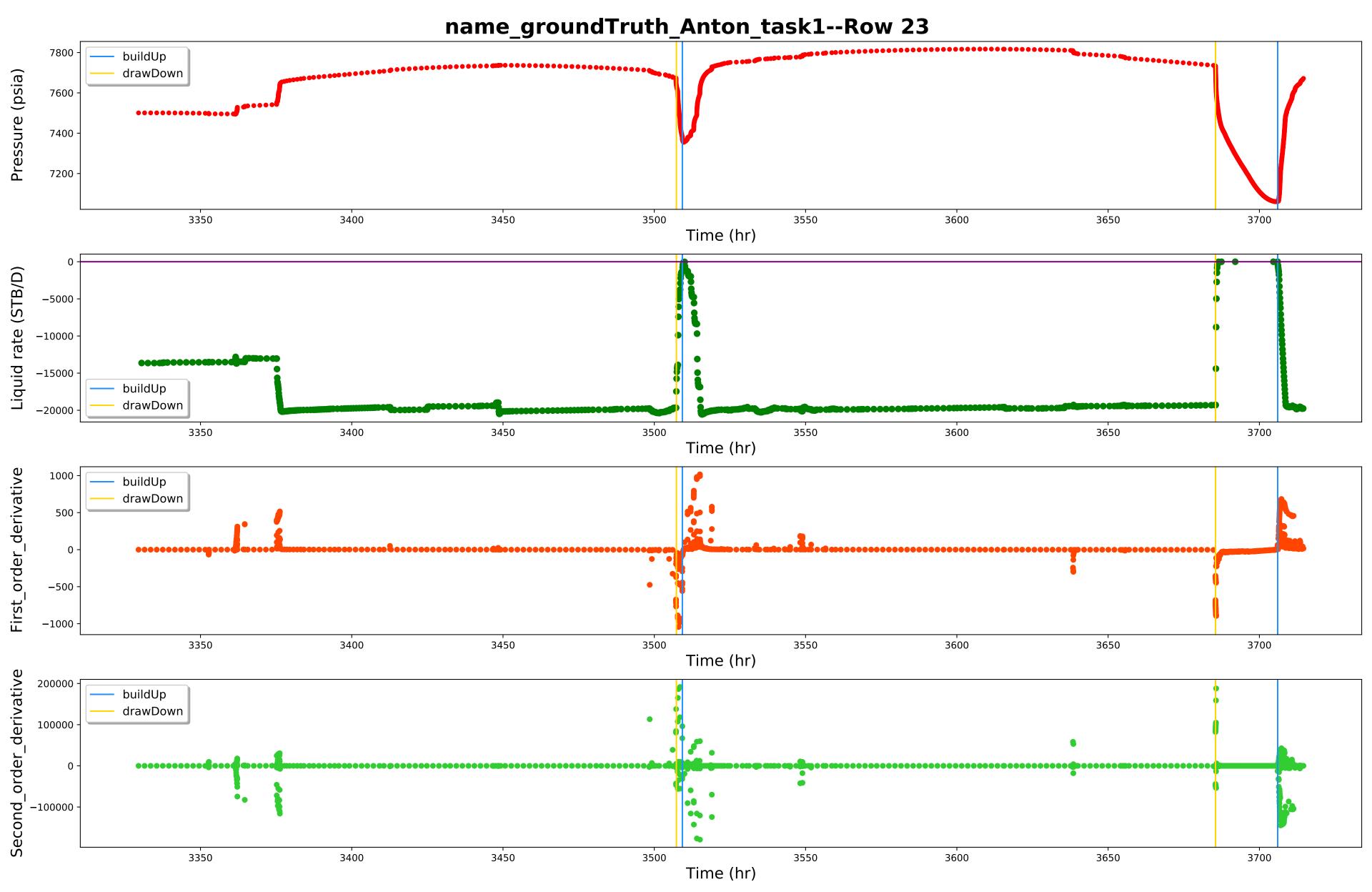


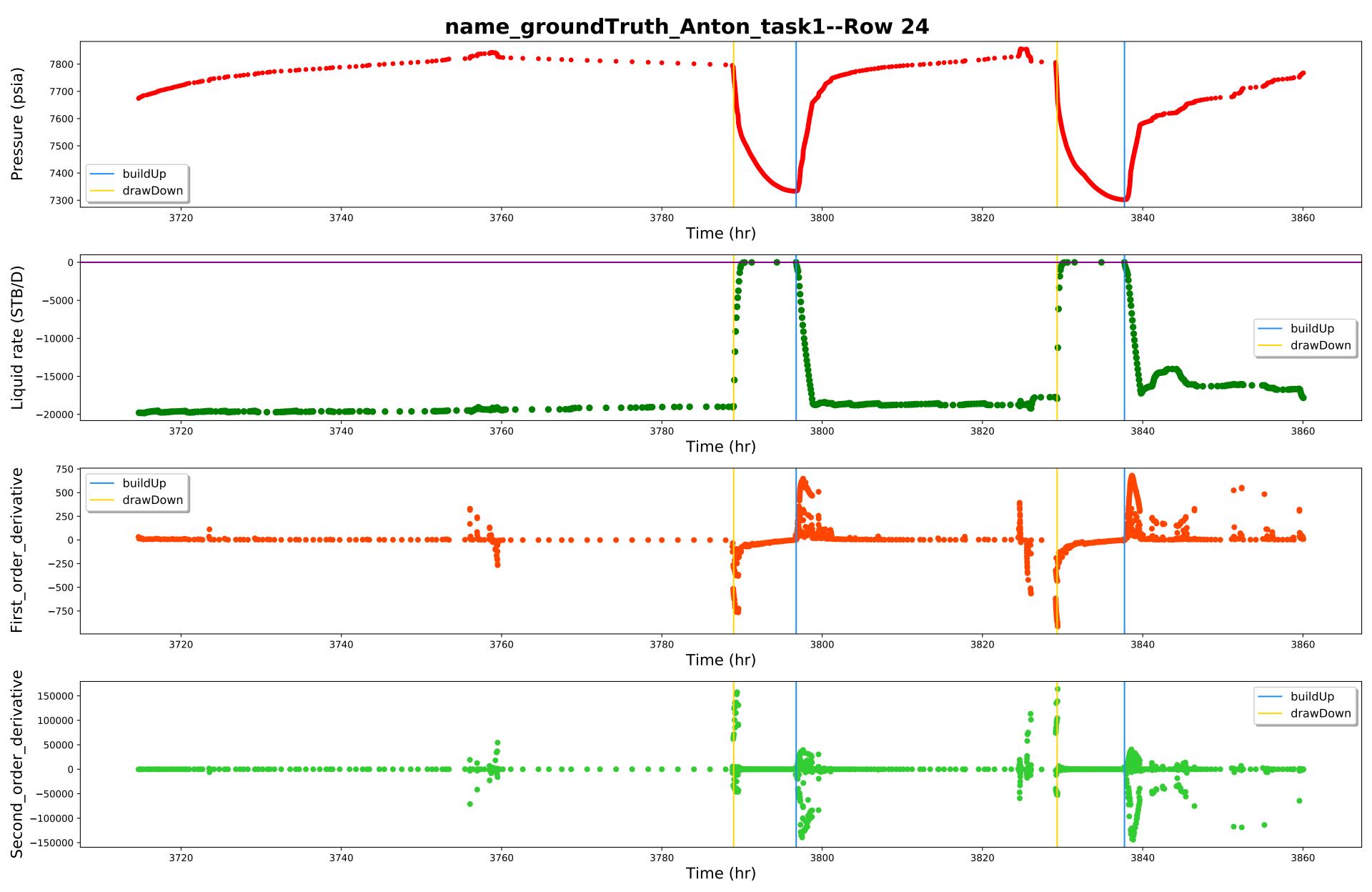


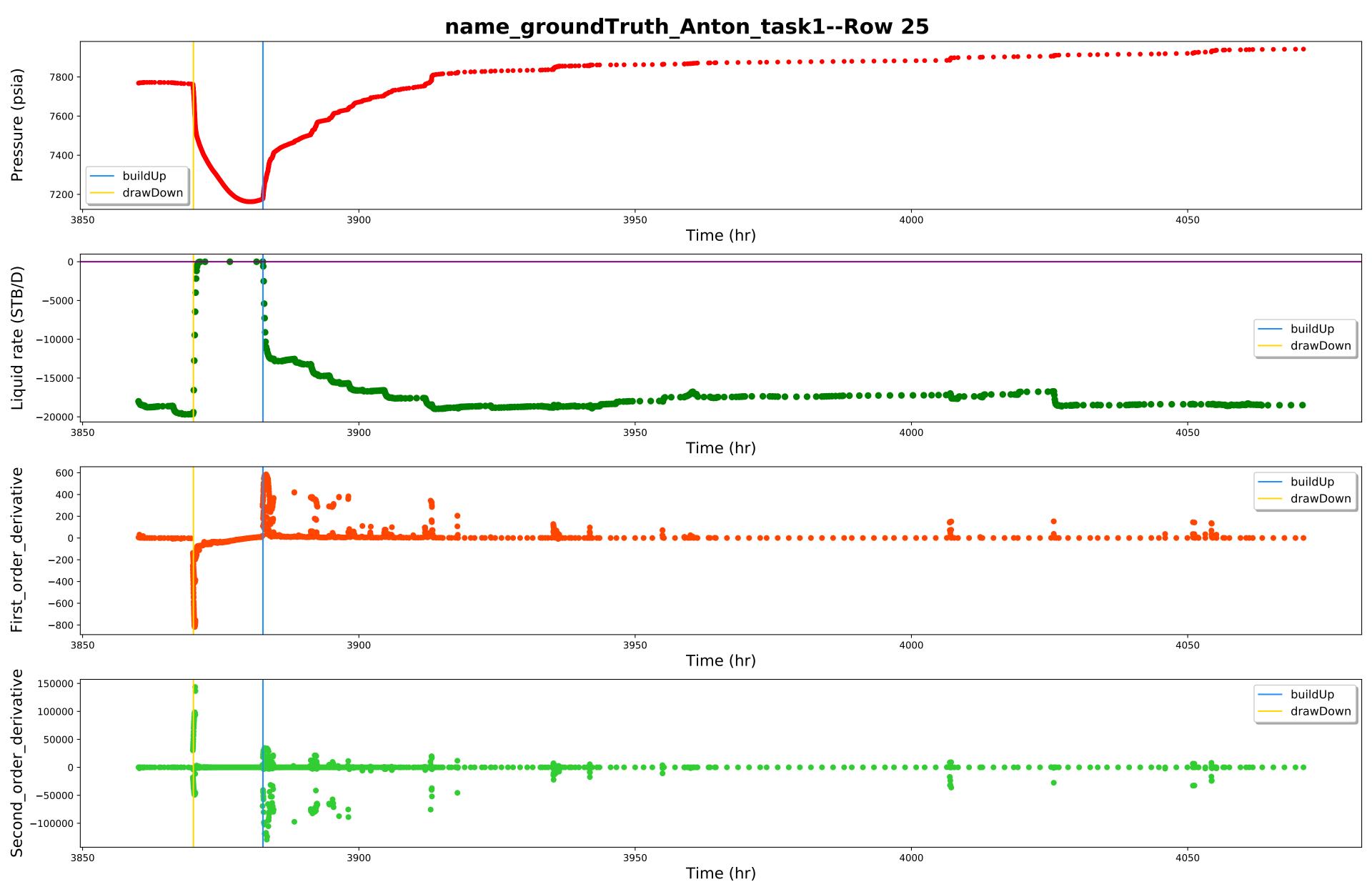












buildup:30, drawdown:30