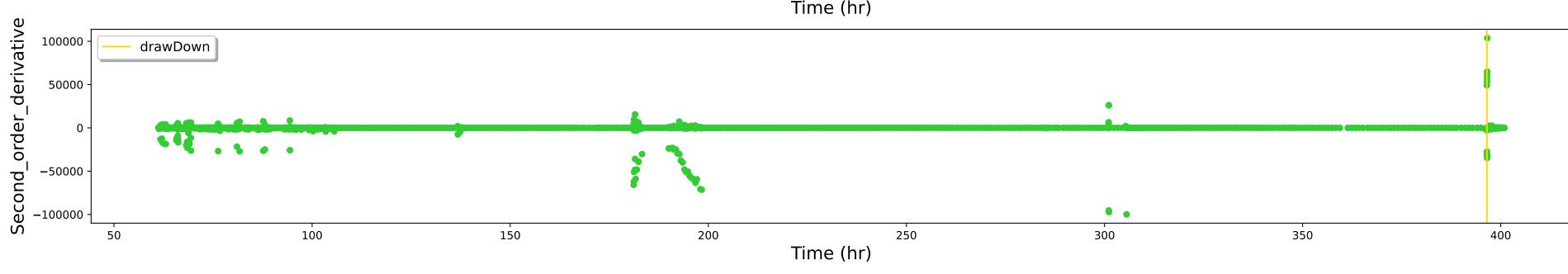
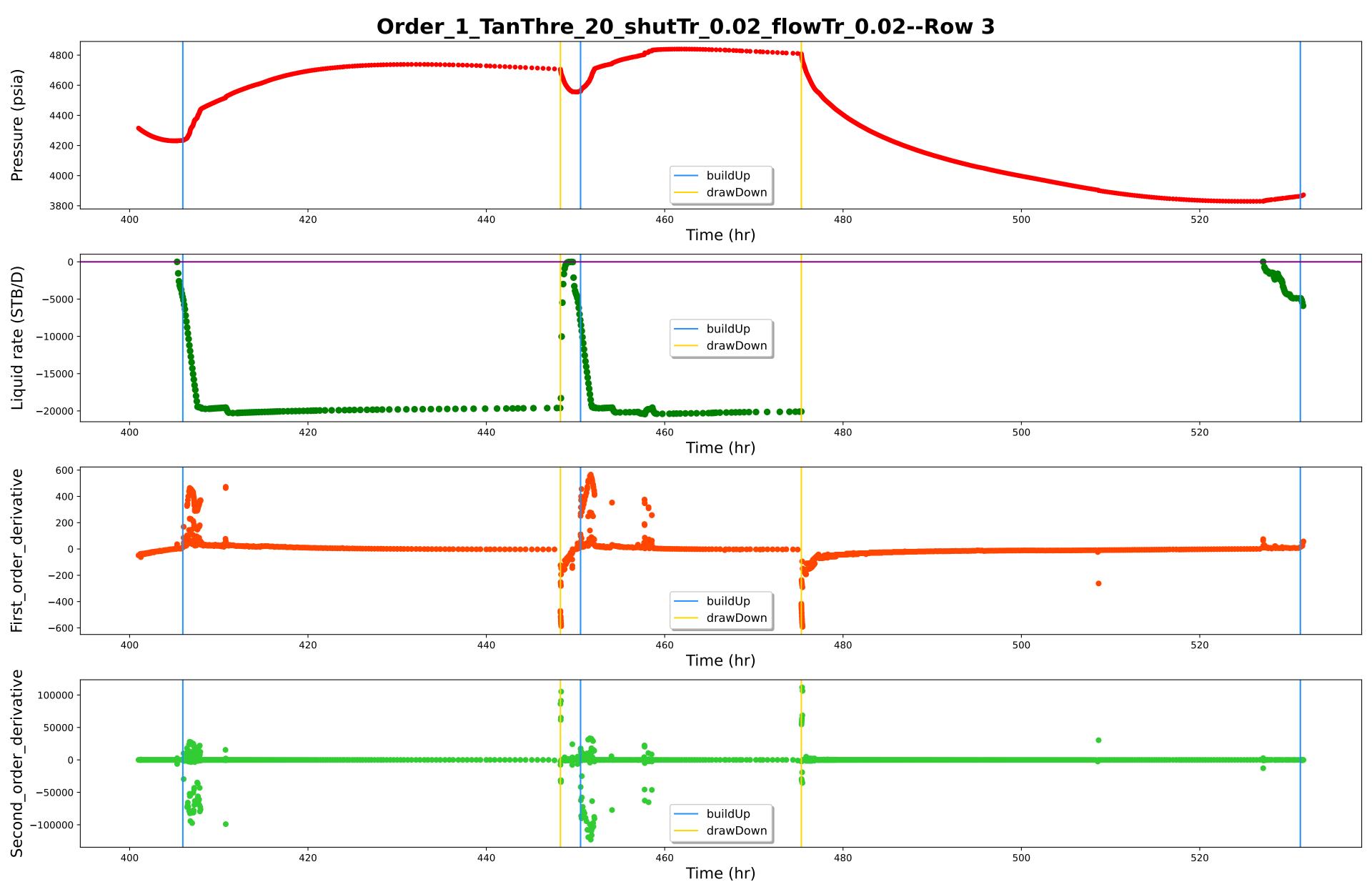
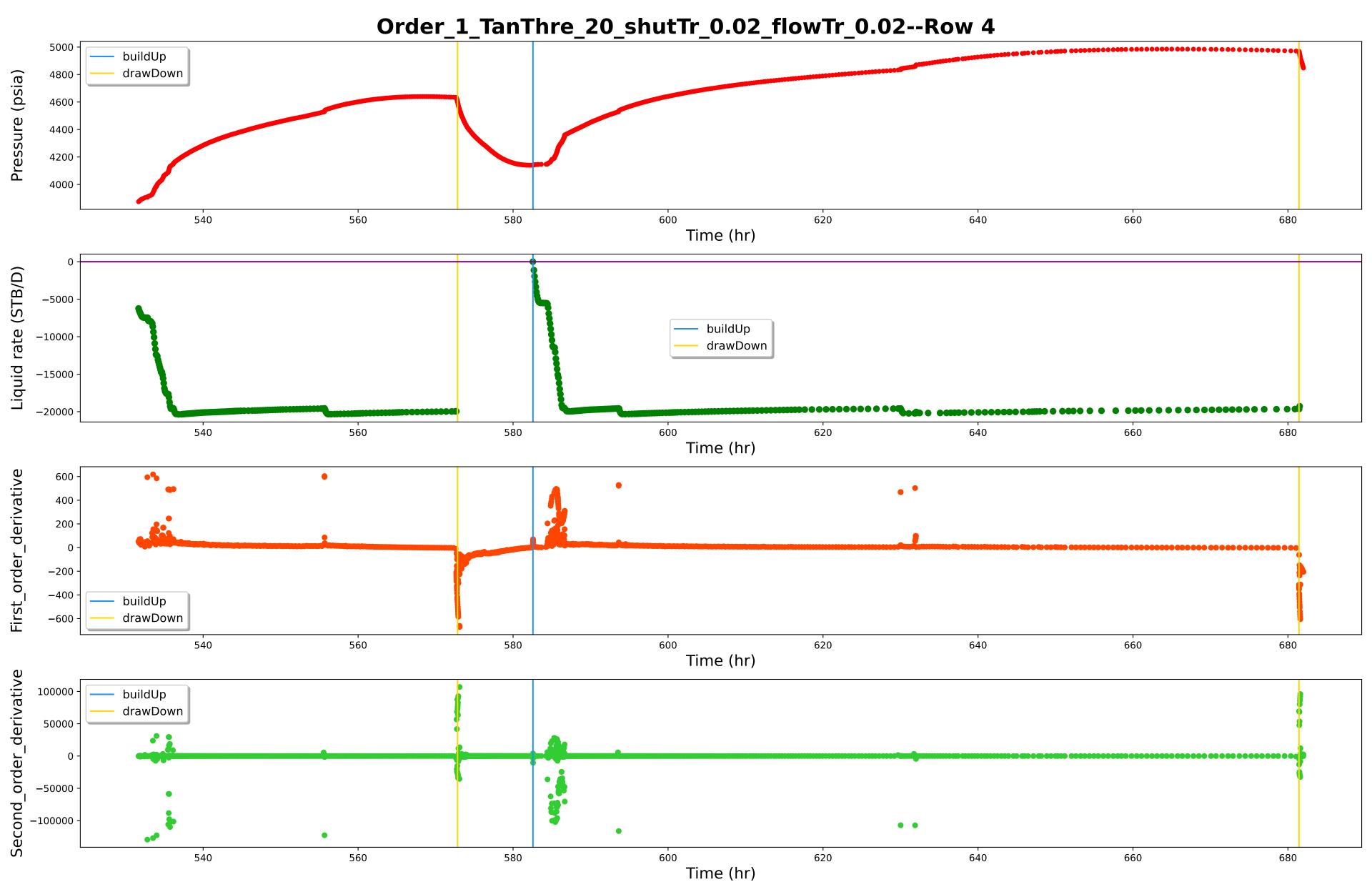
Order_1_TanThre_20_shutTr_0.02_flowTr_0.02--Row 1 Pressure (psia) Time (hr) Fidnid rate (STB/D) -10000 -15 -20000 Time (hr) First_order_derivative Time (hr) Second_order_derivative Time (hr)

Order_1_TanThre_20_shutTr_0.02_flowTr_0.02--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) drawDown







Order_1_TanThre_20_shutTr_0.02_flowTr_0.02--Row 5 4850 buildUp Pressure (psia) 4800 4750 4700 4650 Time (hr) 682 683 687 688 Liquid rate (STB/D) -5000 -10000 -15000 buildUp -20000 Time (hr) 688 682 683 686 684 687 First_order_derivative buildUp 400 300 200 100 0 -100 -200 Time (hr) 687 684 682 683 686 688 Second_order_derivative buildUp 20000 -20000 -40000 -60000 -80000 -100000 Time (hr) 683 688 682 684 686 687

buildup:5, drawdown:5