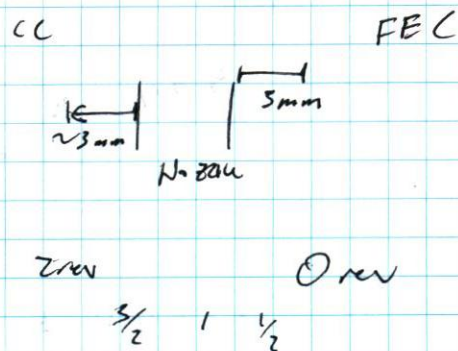


March 2nd Run 4

Nozzle
Scanner
Probe



* Note: BOP takes 40s to warm up.

Obj: 5 positions for at least 3 pressures

Engine's
OPERATOR Settings

315 P 15 R
Net Power: 300W

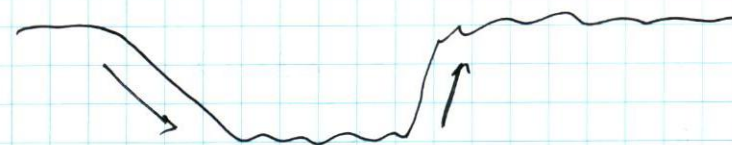
Nozzle 379 A
L2 239 A

Mass Flow

5.8 \rightarrow 6.1 \rightarrow 5.3 \rightarrow 14 \rightarrow 1.0
5cc/m
std on cm/min

Now we are looking at the State change

Center Cell 13
450 \pm 5



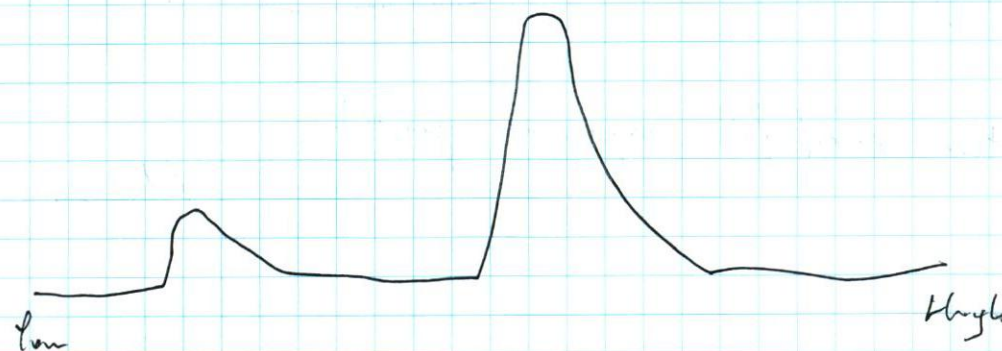
At 46 mTorr FEC Pressure
It appears to take longer to go down than up

In part (A) the dir is 200 μ s

so we see 400 μ s
100 μ s



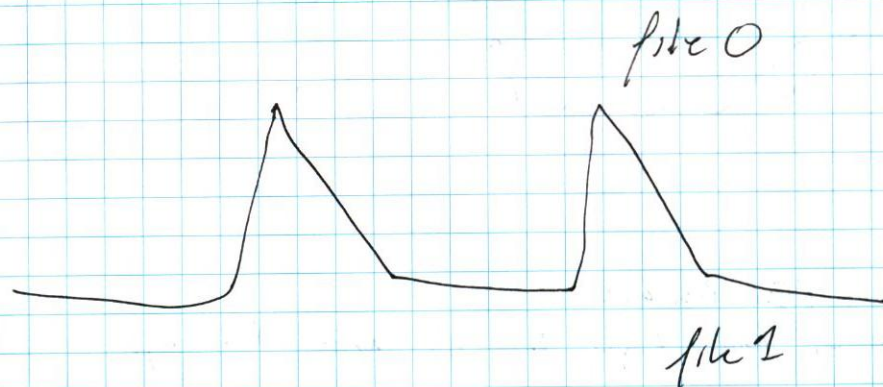
In (B) we see skewed histograms



This is a Statistical reinforcement
for what we saw in the Singles.

At 43 mTorr

the distribution is almost equal



At 40 mTorr

we see a population increase



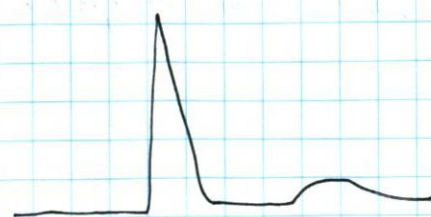
But the rise/fall asymmetry persists

file 2

At 37 mTorr

file 3

$$\tau = \frac{2}{3} \cdot 5 \text{ ms}$$



we see a periodic fluctuation

If we call it $T \approx 2.5 \text{ ms}$

$$f = \frac{1000}{2.5} = 400 \text{ Hz}$$

file 4

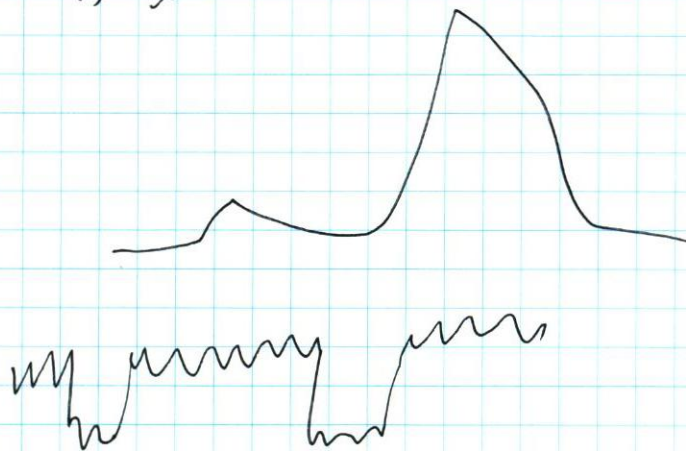
At 3.3 mTorr

the transition has entirely stabilized

At 47 mTorr

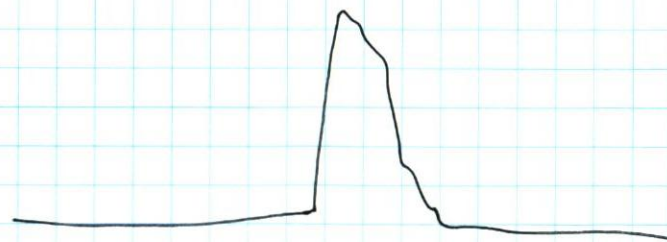
47 mTorr

file 5



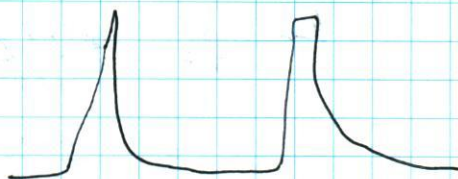
At 50 mTorr

file 6



at 42 or 41 mTorr

count looks even!



file 7

2:20

Print (C)

show Correlations between Puddle Voltage
and Probe Bias