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## F5 Vertical Aperture Investigation

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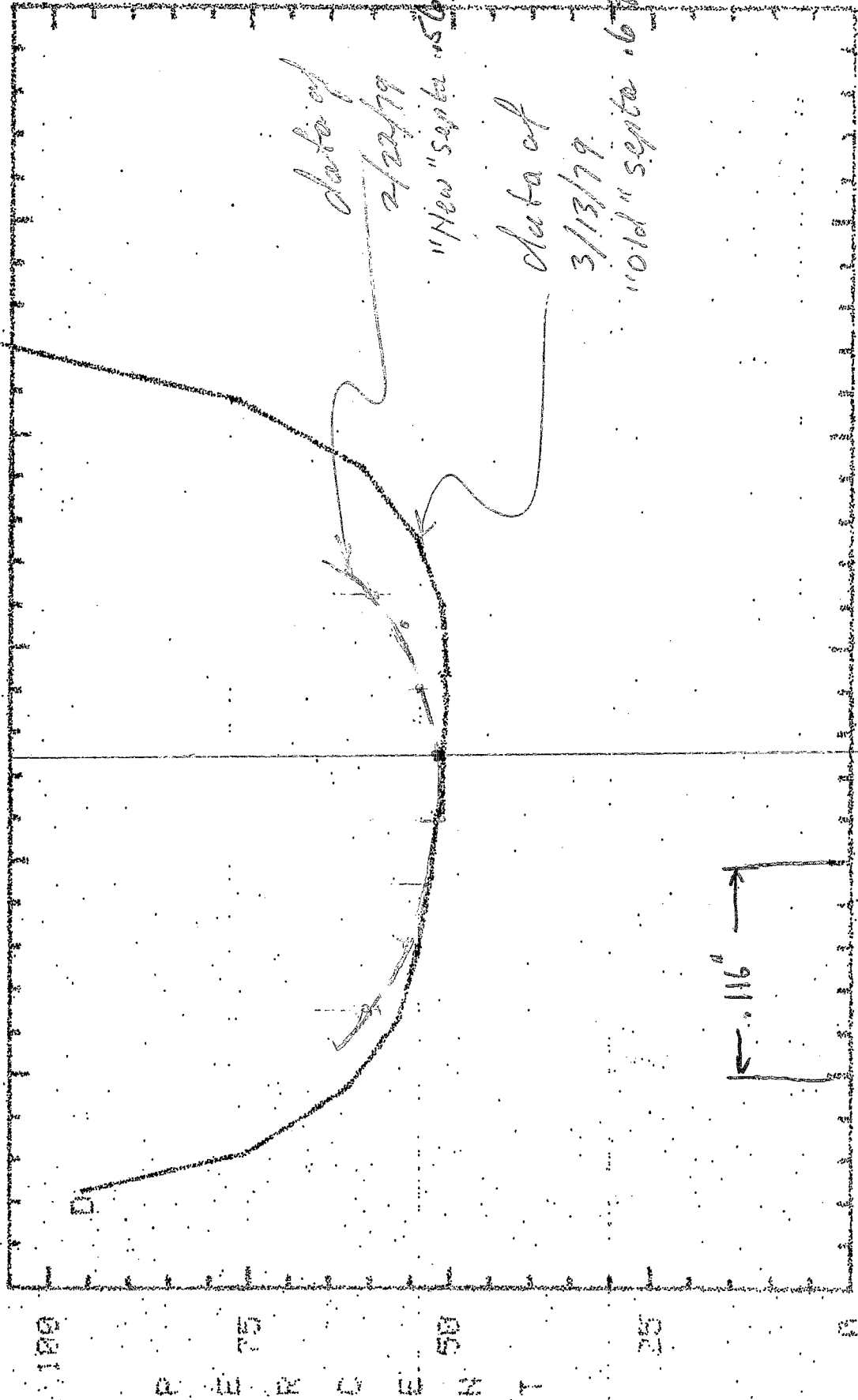
OBSERVATIONS AND CONCLUSION

The Extracted beam was scanned vertically at F5 using the I10 vertical bump. The motion was calibrated at  $\sim .058$  in./1000 count change to I10 VB. F5 losses (normalized to the internal beam) were noted. The data of 2/22 were "eyeball" averages. The data of 3/13 are 5 pulse averages. The magnet in use on 3/13 had a clear vertical steel aperture of 0.69 in., the magnet of 2/22 had the same steel aperture, but cooling tubes and clips reduced it to 0.56 in. Both curves are plotted for comparison.

VERT SCAN OF BEAM IN F5 A  
13-MAR-79 12:04:08.2  
TEST VAR #HONE AUG= 5

YD:FSL = 0.000, 100 = 20.000

F5L



X -50 00 -30 00 -10 00 10 00 30 00 50 00  
11016 X 100 PLOTS WHEN ABS(OLD-NEW) > .6