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F5 Vertical Aperture Investigation

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DISCLAIMER

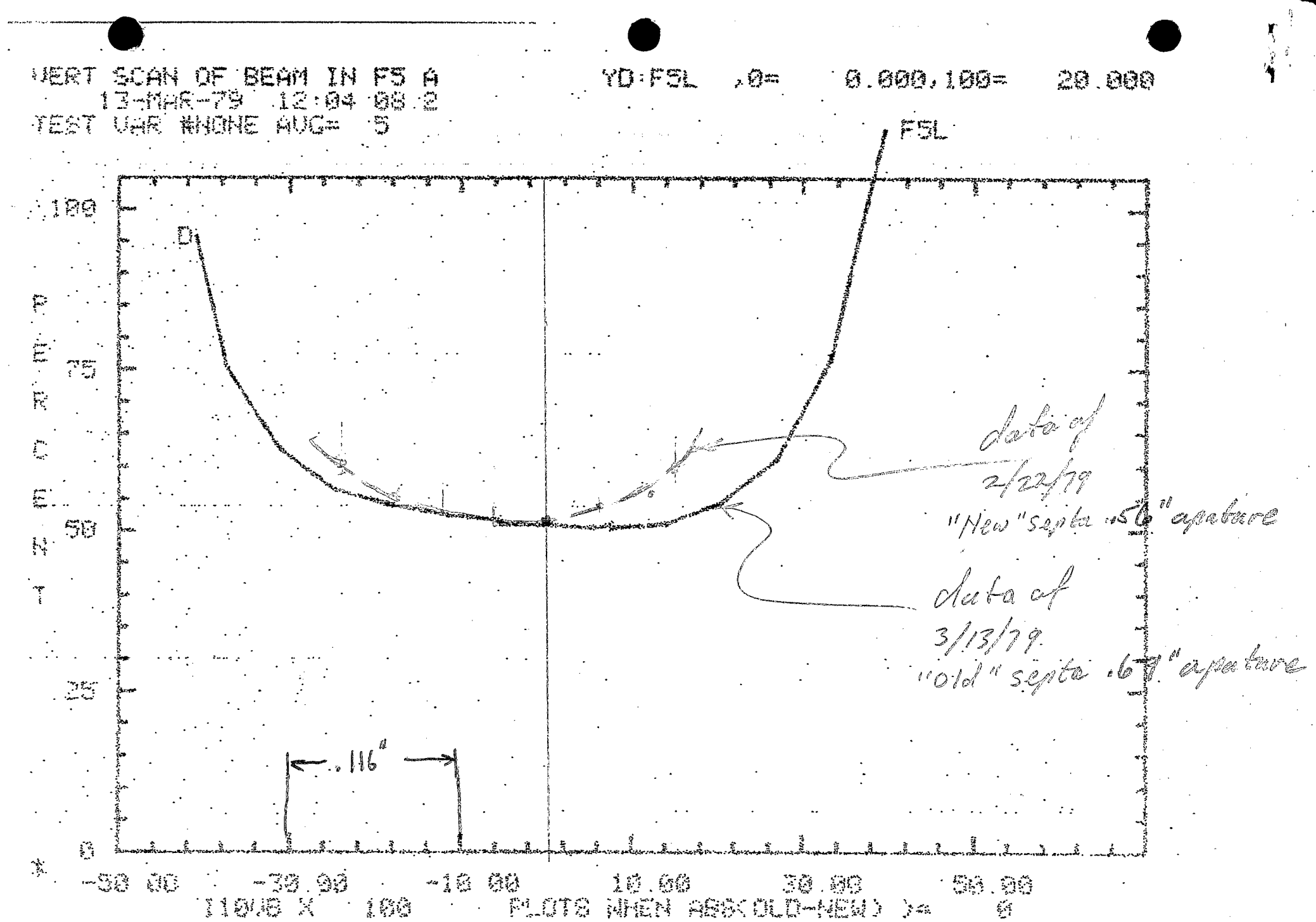
AGS STUDIES REPORT NUMBER 119

Date 2/22/79 ∿ 1600 Time 3.13/79 1130-1230 Experimenters J.W. Glenn

Subject F5 Vertical Aperture Investigation

OBSERVATIONS AND CONCLUSION

The Extracted beam was scanned vertically at F5 using the I10 vertical bump. The motion was calibrated at ∿ .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 #NONE AVG= 5
YD:F5L ,0= 0.000,100= 20.000
F5L
100
75
50
25
0
-30.00
-10.00
10.00
30.00
50.00
.116"
data of
2/22/79
"New" septa .56" aperture
data of
3/13/79
"Old" septa .67" aperture