

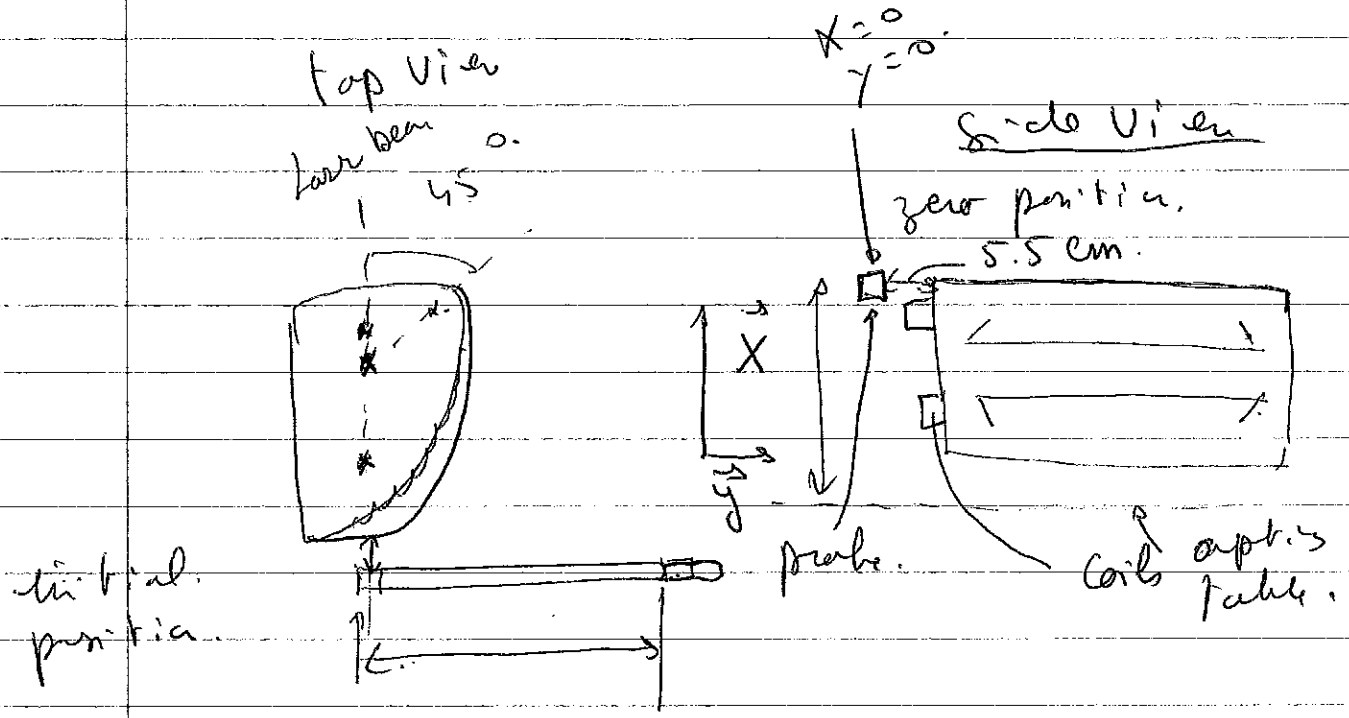
Tag num. 079220

10-16-10

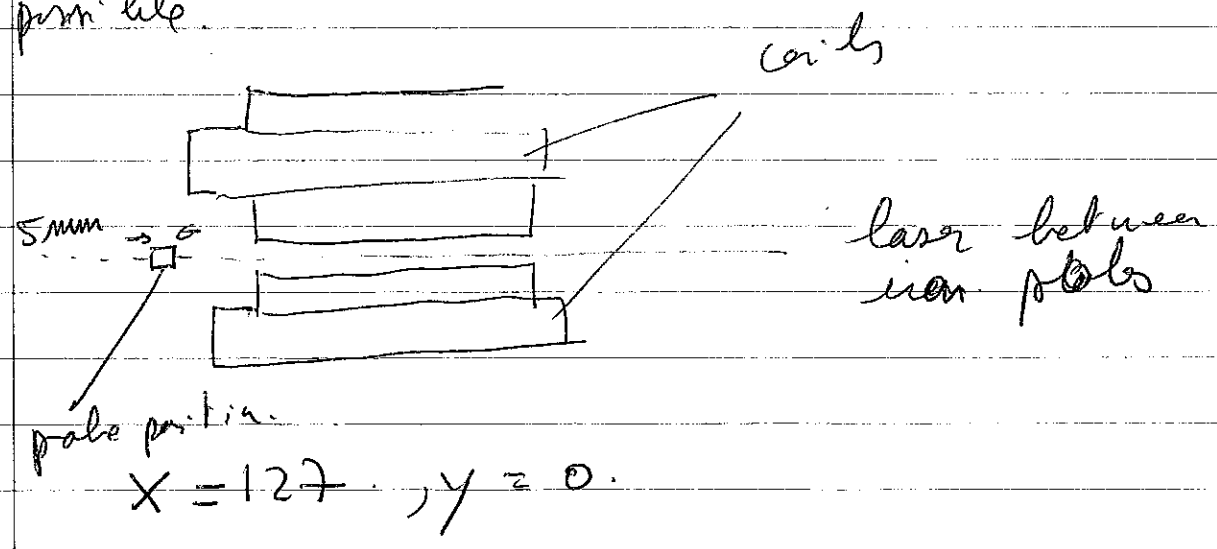
hadig magnet that was.

to be used with LCS (compact magnets)

the horizontal & vertical translators. here a range of 150 mm. i.e 15 cm



aligned as much as possible



at zero position $x = 0, y = 0$

power app. $B = 2 \times 10^5 \text{ lb/G}$, power on $I = 20.4 \text{ A}$
 $B = +3.34 \times 10^3 \text{ lb/G}$

~~XXXXXXXXXX~~

$x = 127 \text{ mm}, y = 0 \quad B = -6.7 \times 10^{-2} \text{ lb/G}$

$x = 127 \quad y = 10 \text{ mm} \quad B = -0.106 \text{ lb/G}$

$x = 127 \quad y = 20 \text{ mm} \quad B = -0.169 \text{ lb/G}$

$x = 127 \quad y = 30 \text{ mm} \quad B = -0.2729 \text{ lb/G}$

$x = 127 \quad y = 40 \text{ mm} \quad B = -0.448 \text{ lb/G}$

$x = 127 \quad y = 50 \text{ mm} \quad B = -0.728 \text{ lb/G}$

$y = 60 \quad B = -0.97 \text{ lb/G}$

$y = 70 \quad B = -1.025 \text{ lb/G}$

$y = 80 \quad B = -1.029 \text{ lb/G}$

$y = 90 \text{ mm} \quad B = -1.03 \text{ lb/G}$

$y = 100 \quad B = -1.029 \text{ lb/G}$

$$X = 127 \text{ mm} \quad Y = 110 \quad B = -1.028 \pm 6$$

$$Y = 120 \quad B = -1.028 \pm 6$$

$$Y = 130 \quad B = -1.028 \pm 6$$

$$Y = 140 \quad B = -1.028 \pm 6$$

$$Y = 150 \quad B = -1.028 \pm 6$$

roughly
center of
bed

again

$$X = 127 \text{ mm} \quad Y = 150 \text{ mm} \quad B = -1.028 \pm 6$$

$$Y = 140 \text{ mm} \quad B = -1.031 \pm 6$$

$$Y = 130 \text{ mm} \quad B = -1.0342 \pm 6$$

$$Y = 120 \text{ mm} \quad B = -1.036 \pm 6$$

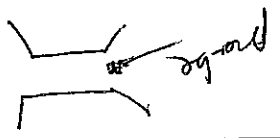
$$Y = 110 \text{ mm} \quad B = -1.036 \pm 6$$

$$Y = 100 \quad B = -1.036 \pm 6$$

$$Y = 90 \quad B = -1.036 \pm 6$$

$$Y = 80 \text{ mm} \quad B = -1.0355 \pm 6$$

$y = 50$ $B = -0.2283$ ≈ 6 (edge of probe)



$y = 60$ $B = -0.9212$ ≈ 6

$y = 70$ $B = -1.0253$ ≈ 6

$y = 80$ $B = -1.03$ ≈ 6

$y = 90$ $B = -1.03$ ≈ 6

$y = 100$ $B = -1.0298$ ≈ 6

$y = 110$ $B = -1.028$ ≈ 6

$y = 120$ $B = -1.0285$ ≈ 6

$y = 130$ $B = -1.0286$ ≈ 6

$y = 140$ $B = -1.0282$ ≈ 6

$y = 150$ $B = -1.0278$ ≈ 6

$y = 127$ $B = -1.027$ ≈ 6

$y = 127$ $B = -1.027$ ≈ 6

$y = 127$ $B = -1.027$ ≈ 6

$y = 40$	$y = 30$ mm	$y = 20$ mm	$y = 10$ mm	$y = 0$ mm
$B = -0.449 \text{ } \mu\text{m}$	$B = -0.2338 \text{ } \mu\text{m}$	$B = -0.1699 \text{ } \mu\text{m}$	$B = -0.1062 \text{ } \mu\text{m}$	$B = -0.0872 \text{ } \mu\text{m}$

region

$y = 0$	$y = 10$	$y = 20$	$y = 30$	$y = 40$	$y = 50$	$y = 60$	$y = 70$
$B = -0.0633 \text{ } \mu\text{m}$	$B = -0.1066 \text{ } \mu\text{m}$	$B = -0.17 \text{ } \mu\text{m}$	$B = -0.275 \text{ } \mu\text{m}$	$B = -0.4523 \text{ } \mu\text{m}$	$B = -0.7354 \text{ } \mu\text{m}$	$B = -0.933 \text{ } \mu\text{m}$	$B = -1.03 \text{ } \mu\text{m}$

$X = 127 \text{ } \mu\text{m}$

vertical scan: gap width ≈ 5 cm

$X = 127$ mm $Y = 150$ mm
~~mm~~

go to $X=128$ $Y=20A$ $I=20A$

$X=125$ mm $Y=150$ mm $B=-1.036926$

$X=132$ mm $Y=150$ mm $B=-1.037926$

$X=129$ mm $Y=150$ mm $B=-1.038226$

$X=126$ mm $Y=150$ mm $B=-1.038426$

$X=123$ mm $Y=150$ mm $B=-1.038526$

$X=120$ mm $Y=150$ mm $B=-1.038626$

$X=118$ mm $Y=150$ mm $B=-1.038726$

$X=116$ mm $Y=150$ mm $B=-1.038826$

$X=114$ mm $Y=150$ mm $B=-1.03926$

114 \rightarrow 135

go to $X=124.5$ $Y=150$ (duplicate work)

original scan $I=20A$ $X=124.5$ $Y=150$ $B=-1.038826$

$$I = 25.1 \text{ A} \quad V = -1.2916 \text{ V}$$

$$I = 20.0 \text{ A} \quad V = -1.0359 \text{ V}$$

$$I = 15 \text{ A} \quad V = -0.781 \text{ V}$$

$$I = 10 \text{ A} \quad V = -0.534 \text{ V}$$

$$I = 5 \text{ A} \quad V = -0.277 \text{ V}$$

$$I = 0 \text{ A} \quad V = -0.017 \text{ V}$$

$$\text{vergen: } I = 0 \text{ A} \quad V = -0.017 \text{ V}$$

$$I = 5 \text{ A} \quad V = -0.266 \text{ V}$$

$$I = 10 \text{ A} \quad V = -0.518 \text{ V}$$

$$I = 15 \text{ A} \quad V = -0.7713 \text{ V}$$

$$I = 20 \text{ A} \quad V = -1.02 \text{ V}$$

$$I = 25 \text{ A} \quad V = -1.272 \text{ V}$$

$$I = 30 \text{ A} \quad V = -1.52 \text{ V}$$

$I = 0$
 $I = 5A$ $V = -0.2747 \text{ } \Omega$
 $I = 10A$ $V = -0.5313 \text{ } \Omega$
 $I = 15A$ $V = -0.7855 \text{ } \Omega$
 $I = 20A$ $V = -1.037 \text{ } \Omega$
 $I = 25A$ $V = -1.287 \text{ } \Omega$
 $I = 30A$ $V = -1.5218 \text{ } \Omega$

$I = 30A$ $V = -1.5213 \text{ } \Omega$
 $I = 25A$ $V = -1.2735 \text{ } \Omega$
 $I = 20A$ $V = -1.028 \text{ } \Omega$
 $I = 15A$ $V = -0.7771 \text{ } \Omega$
 $I = 10A$ $V = -0.516 \text{ } \Omega$
 $I = 5A$ $V = -0.2636 \text{ } \Omega$
 $I = 0$ $V = -0.0123 \text{ } \Omega$

*
 Very small $X = 124.5$ $Y = 150$

$X = 0$, $Y = 0$, $I = 20$
 $V = 0.00544 \text{ } \Omega$

$$K=124.5 \quad y=4 \quad B=-0.0684 \text{ \textcircled{26}}$$

$$y=4 \quad B=-0.1118$$

$$y=30 \quad B=-0.2277 \text{ \textcircled{26}}$$

$$y=40 \quad B=-0.457 \text{ \textcircled{26}}$$

$$y=50 \quad B=-0.74 \text{ \textcircled{26}}$$

$$K=124.5 \quad y=60 \quad B=-0.9799 \text{ \textcircled{26}}$$

$$y=70 \quad B=-1.355 \text{ \textcircled{26}}$$

$$y=80 \quad B=-1.0408 \text{ \textcircled{26}}$$

$$K=124.5 \quad y=90 \quad B=-1.041 \text{ \textcircled{26}}$$

$$K=124.5 \quad y=100 \quad B=-1.0411 \text{ \textcircled{26}}$$

$$K=124.5 \quad y=110 \quad B=-1.041 \text{ \textcircled{26}}$$

$$K=124.5 \quad y=120 \quad B=-1.0409 \text{ \textcircled{26}}$$

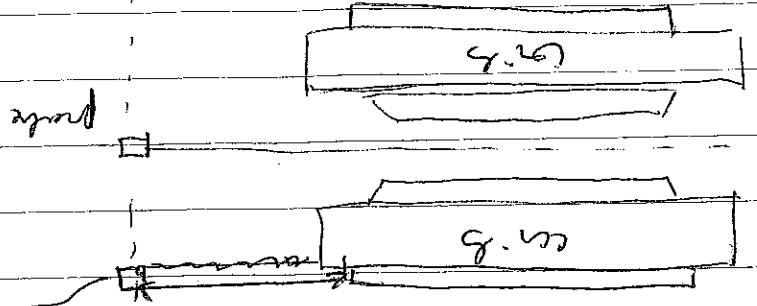
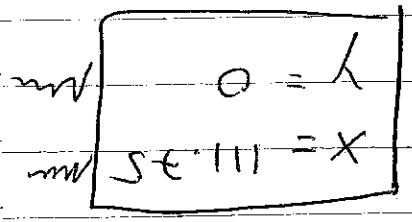
$$K=124.5 \quad y=130 \quad B=-1.04 \text{ \textcircled{26}}$$

$$K=124.5 \quad y=140 \quad B=-1.04 \text{ \textcircled{26}}$$

or $X = 111.75 \text{ mm}$ $Y = 0$ $Z = 0$
 $X = 0$ $Y = 0$ $Z = 0$

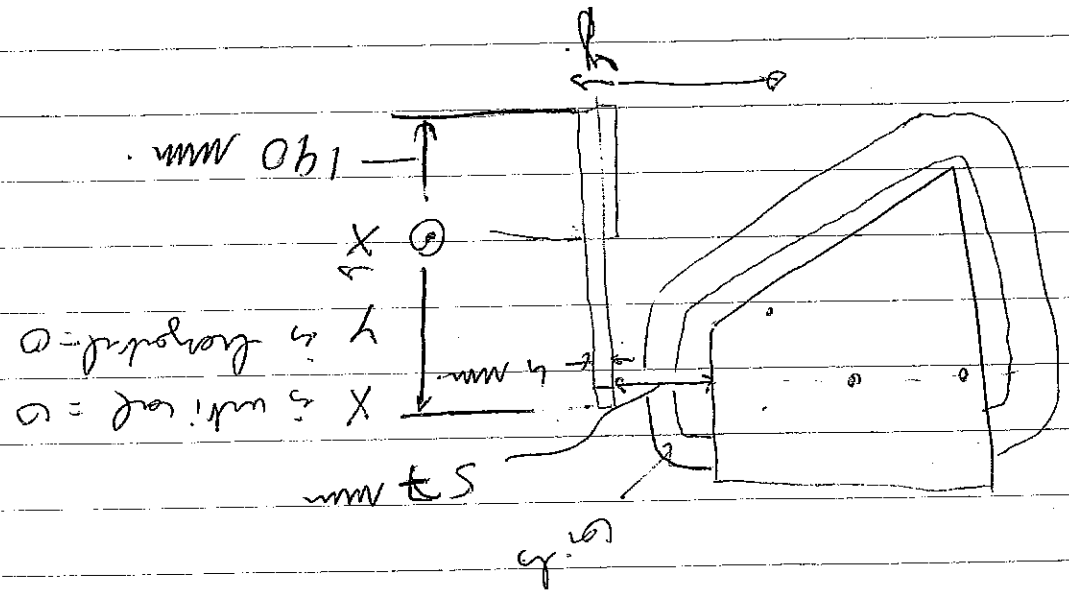
Point in I-dot $X = 0, Y = 0, Z = -610$ $Z = 0$

$X = 0, Y = 0$ $Z = -510$ $Z = 0$



field $(X=0, Y=0)$

Vertical center



Top View

10-19-10 Prod # 2 Top 4 hairs ? (Gr. 5)

PC I

$y = 0$	$B = 0.0402$
$y = 10$	$B = 0.0635$
$y = 20$	$B = 0.1022$
$y = 30$	$B = 0.1674$
$y = 40$	$B = 0.2773$
$y = 50$	$B = 0.4652$
$y = 60$	$B = 0.755$
$y = 70$	$B = 0.9828$
$y = 80$	$B = 1.0512$

$x = 111.75 \text{ mm}$

$y = 20$	$B = 0.102$
$y = 30$	$B = 0.1674$
$y = 40$	$B = 0.2774$
$y = 50$	$B = 0.4658$
$y = 60$	$B = 0.755$
$y = 70$	$B = 0.9898$
$y = 80$	$B = 1.0312$
$y = 90$	$B = 1.0558$
$y = 100$	$B = 1.0562$
$y = 110$	$B = 1.0563$
$y = 120$	$B = 1.0563$
$y = 130$	$B = 1.0362$
$y = 140$	$B = 1.036$
$y = 150$	$B = 1.036$

$x = 111.75 \text{ mm}$ $y = 10 \text{ mm}$ $B = 0.0637$

$T = 20 \mu$

$$K = 111.25 \quad Y = 150 \quad B = 1.0343 \text{ 26}$$

$$K = 108.25 \quad Y = 150 \quad B = 1.0342 \text{ 26}$$

$$K = 105.25 \quad Y = 150 \quad B = 1.0343 \text{ 26}$$

$$K = 102.25 \quad Y = 150 \quad B = 1.0344 \text{ 26}$$

$$K = 99.25 \quad Y = 150 \quad B = 1.03435 \text{ 26}$$

Calculus of $X = 111.25$

$$K = 111.25 \quad Y = 150 \quad B = 1.0339 \text{ 26}$$

$$K = 111.25 \quad Y = 0 \quad B = 0.04 \text{ 26}$$

$$B = 0.0633 \text{ 26}$$

$$B = 0.102 \text{ 26}$$

$$B = 0.1671 \text{ 26}$$

$$B = 0.2767 \text{ 26}$$

$$B = 0.4643 \text{ 26}$$

$$B = 0.7544 \text{ 26}$$

$$B = 0.9818 \text{ 26}$$

$$B = 1.0295 \text{ 26}$$

$$B = 1.0344 \text{ 26}$$

$$B = 1.0344 \text{ 26}$$

$$B = 1.0345 \text{ 26}$$

$$Y = 0$$

$$Y = 10$$

$$Y = 20$$

$$Y = 30$$

$$Y = 40$$

$$Y = 50$$

$$Y = 60$$

$$Y = 70$$

$$Y = 80$$

$$Y = 90$$

$$Y = 100$$

$$Y = 110$$

$$\left. \begin{aligned} X &= 111.25 \\ Y &= 150 \\ B &= 1.034286 \end{aligned} \right\}$$

$$\left. \begin{aligned} X &= 114.25 \\ Y &= 150 \\ B &= 1.03486 \end{aligned} \right\}$$

$$\left. \begin{aligned} X &= 117.25 \\ Y &= 150 \\ B &= 1.03486 \end{aligned} \right\}$$

$$\left. \begin{aligned} X &= 120.25 \\ Y &= 150 \\ B &= 1.033886 \end{aligned} \right\}$$

$$\left. \begin{aligned} X &= 123.25 \\ Y &= 150 \\ B &= 1.033986 \end{aligned} \right\}$$

Bottom Value

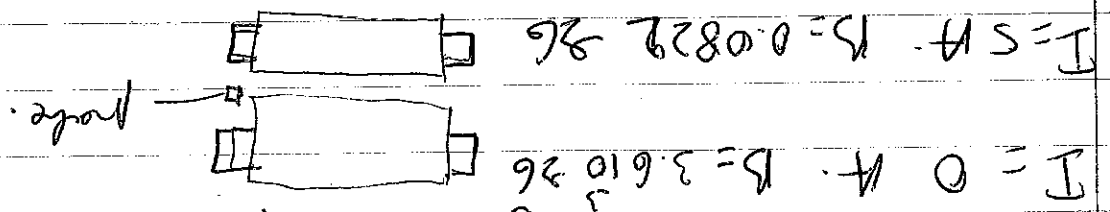
* Vertical Scan.

I = 1
ped

I = 10
A

$X = 111.25$ $Y = 43 \text{ mm}$

~ middle of carb



$I = 10 A$ $B = 0.1615$ zg

$I = 15 A$ $B = 0.242$ zg

$I = 20 A$ $B = 0.3227$ zg

$I = 25 A$ $B = 0.4019$ zg

$I = 30 A$ $B = 0.4793$ zg

$I = 0 A$ $B = 2.810$ zg

$I = 5 A$ $B = 0.08$ zg

$I = 10 A$ $B = 0.1613$ zg

$I = 15 A$ $B = 0.242$ zg

$I = 20 A$ $B = 0.3215$ zg

$I = 25 A$ $B = 0.4$ zg

$I = 30 A$ $B = 0.4783$ zg

26	$B = 1.0342$	$Y = 150$
26	$B = 1.0342$	$Y = 140$
26	$B = 1.0343$	$Y = 130$
26	$B = 1.0344$	$Y = 120$
26	$B = 1.0344$	$Y = 110$
26	$B = 1.0344$	$Y = 100$
26	$B = 1.034$	$Y = 90$
26	$B = 1.0294$	$Y = 80$
26	$B = 0.9816$	$Y = 70$
26	$B = 0.754$	$Y = 60$
26	$B = 0.4639$	$Y = 50$
26	$B = 0.2764$	$Y = 40$
26	$B = 0.1669$	$Y = 30$
26	$B = 0.1018$	$Y = 20$
26	$B = 0.0322$	$Y = 10$

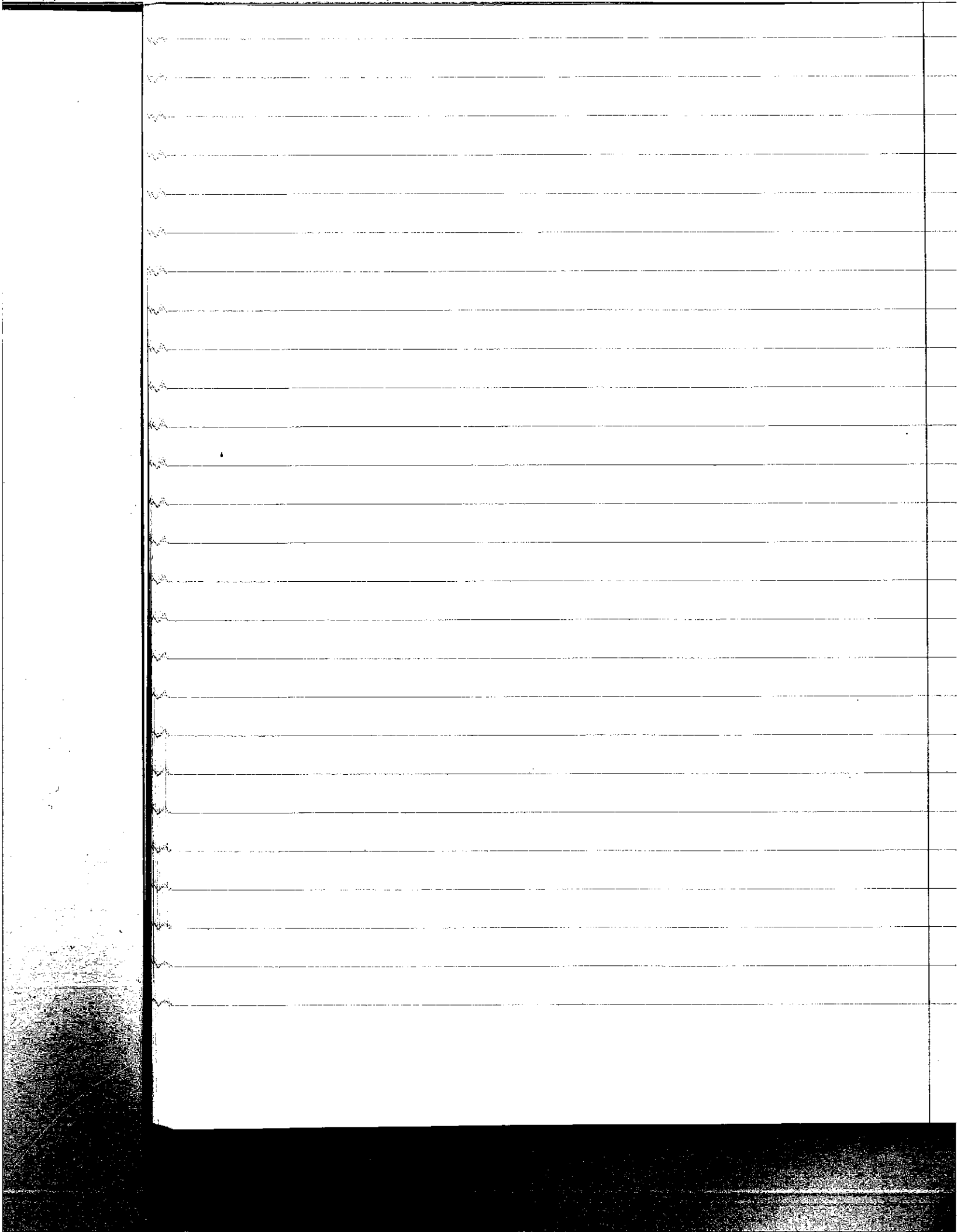
$I = 20\%$
 $X = 111.25$
 $Y = 0$
 $B = 0.04026$

$Y = 150$
 $B = 1.034226$

$Y = 140$
 $B = 1.034326$

$Y = 130$
 $B = 1.034526$

$X = 111.25$
 $Y = 120$
 $B = 1.0345$

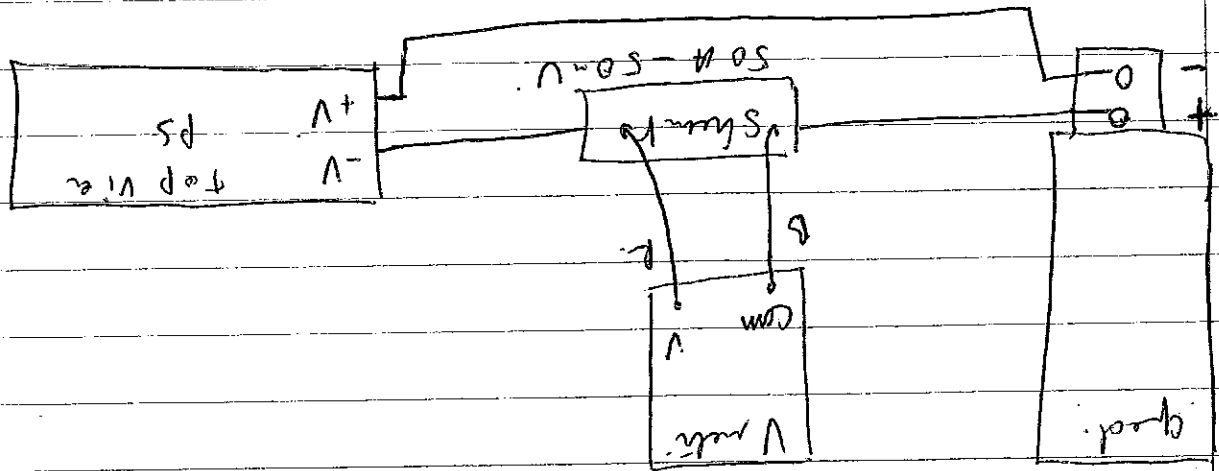


$$I = 0 \text{ A} \quad X = 0 \quad Y = 0 \quad R = -7.410 \text{ } \Omega$$

$$I = 20 \text{ A} \quad X = 0 \quad Y = 0 \quad R = -6.5810 \text{ } \Omega$$

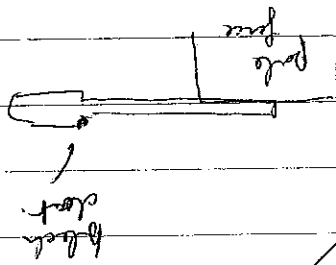
$$R = 0.041 \text{ } \Omega$$

$$I = 20 \text{ A} \quad X = 111.25 \quad Y = 0$$



critical parameters

assuming anything resistive from table. (resistive losses are negligible)

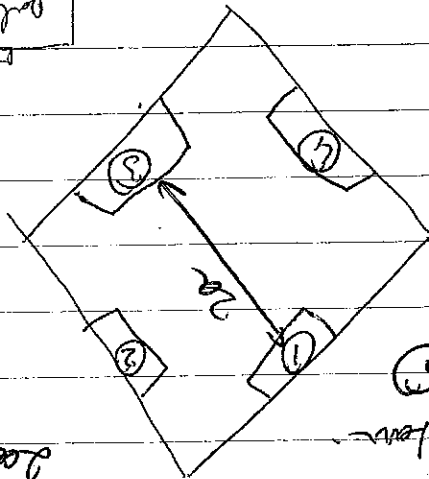


mm

52.3

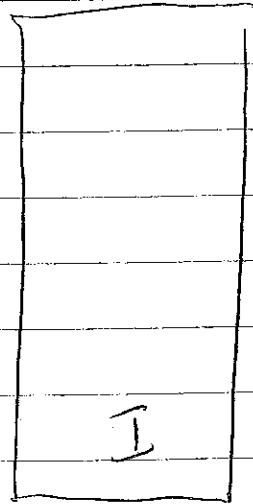
- 5.48

200-58.31



2

low



low

Take $C_{in} \approx 1$. SR 09
 Now $C_{in} \approx 1.20$ A. $R = 27$ M Ω .
 quoted 9 T/M. Measurements at probe face.

Am

large primary
 pure eff

$$R = 7.83 G$$

Power on, Measurement #1

0A	8.27 G
2.9A	-46.02 G
5.9A	-99 G
8.9A	-152.09 G
12.6A	-218.7 G
15.55A	-272.03 G
17.8A	-311.9 G
20A	-351.9 G
0A	-0.6 G
0A	-1 G

ht probe below good air with pure eff.

Need 0.74 G

ht probe in table below good air
 col your field needs ~~0.07 G~~ 0.07 G
 had placed in
 ht probe against pure field needs with W, PS, PP
 Measurement 1

0A	0.83 G
2.9A	-55 G
5.9A	-111.6 G
8.9A	-167.66 G
12.6A	-224.6 G
15.55A	-282.16 G
17.8A	-349.1 G
20A	-416.1 G
0A	-19.84 G
0A	-373.5 G

Measurement

put probe on table. below ground current shielded

zero $\Rightarrow 0.36$

attach probe. probe # 4

power splits off. field $B = +0.026$

turn switch on

Measurement 1

-0.9 A	←	0.716 G	-0.9 A	8.156
-2.9 A	←	52.5 G	-2.9 A	58.166
-5.9 A	←	106.04 G	-5.9 A	109.666
-8.9 A	←	159.5 G	-8.9 A	161.956
-12.6 A	←	226.47 G	-12.6 A	227.86
-15.55 A	←	280.17 G	-15.55 A	280.86
-17.8 A	←	320.6 G	-17.8 A	320.756
-20. A	←	360.86 G	-20. A	361.66
-0 A	←	8.13 G	-0.9 A	8.636

Measurement 2

0 A → -0.83 G
 3 A → -52.86 G
 6.1 A → -106.8 G
 9.2 → 160.96 G

@ pre ps off 15 = average 0.1 G

#2
 field = 0.06 G
 1/2 year below ground air in

#2
 0 A → 1.72 G
 3 A → 52.13 G
 6.1 A → 104.41 G
 9.15 A → 156.95 G
 12.2 A → 209.8 G
 15.3 A → 262.8 G
 18.4 A → 316.4 G
 19.9 → 343.06 G
 0 A → 1.77 G

6.1 A → 99.1 G
 9.15 A → 153.1 G
 12.2 A → 207.12 G
 15.3 A → 261.1 G
 18.4 A → 315.36 G
 19.9 A → 342.5 G
 0 A → 1.73 G

Dr. Physics
 name
 address
 city

1

-0A → -9.35 G

-5A → -59.35 G

-6.1A → -111.75 G

-9.1A → -164.5 G

-12.2A → -217.83 G

-15.3A → -271.18 G

-18.35 → -326.38 G

-20A → -351.7 G

-0A → -9.24 G

2

-0A

→ -9.24 G

-5A

→ -59.4 G

-6.1A

→ -111.73 G

-9.1

→ -164.42 G

-12.2A

→ -217.75 G

-15.3A

→ -271.13 G

-18.35A

→ -324.71 G

-19.9A

→ -352.33 G

-0A

→ -9.03

1

Flip Polarity on

+0A

→ -7.67 G

3A

→ 44.96 G

#

0

2

-0.04 → -7.5 G
-3.05A → -58.64 G

-0.04 → -7.5 G
-20.1A → -555.72
-18.6A → -323.86
-15.55A → -273.47
-12.35A → -219.55 G
-9.25A → -165.25 G
-6.2A → -111.68 G
-3.05A → -58.64 G
-0.04 → -7.2 G

pk, ps of 15 = -6.5 G

15 = -0.06 G

pk. #3 young male hollow good ears

#2

-0.04 → 9.08 G
-3A → 61.08 G
-6.1A → 115.1 G
-9.2A → 169.46 G
-12.5A → 224.3 G
-15.4A → 279.27 G
-18.5A → 334.8 G
-20.05A → 363.45 G
-0.04 → 9.16 G

#1

Flip program

-0.1A → 9.6
 -10.1A → 362.97
 -18.5A → 335.156
 -15.4A → 279.266
 -12.3A → 223.56
 -9.2A → 167.966
 -6.1A → 112.976
 -3A → 58.66
 -0.1A → 6.456

#1

#2

0.1A → -1.376
 20.1A → -352.476
 18.5A → -325.166
 15.4A → -270.366
 12.3A → -215.726
 9.2A → -161.066
 6.1A → -106.96
 3.1A → -52.946
 0.1A → -0.866

#

12.3A → -215.646
 15.4A → -270.256
 18.5A → -325.96
 20.1A → -352.446
 0.1A → -0.886

0.4 - 3.27 G

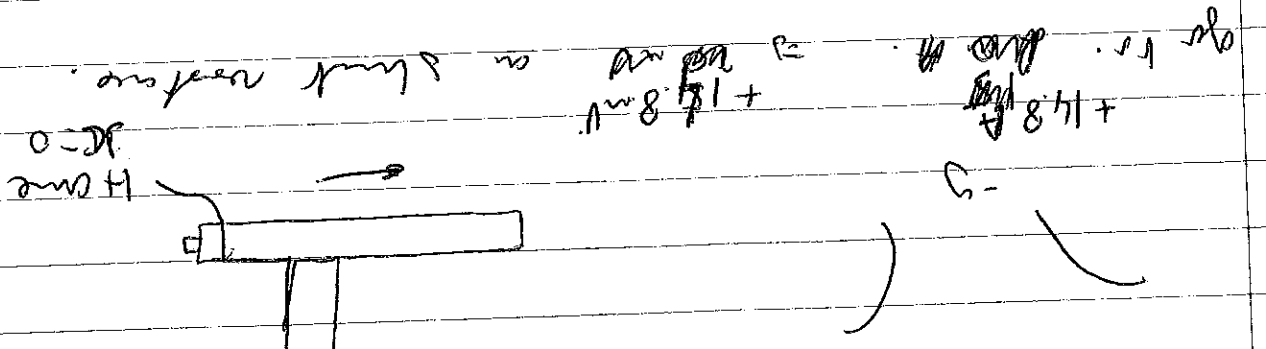
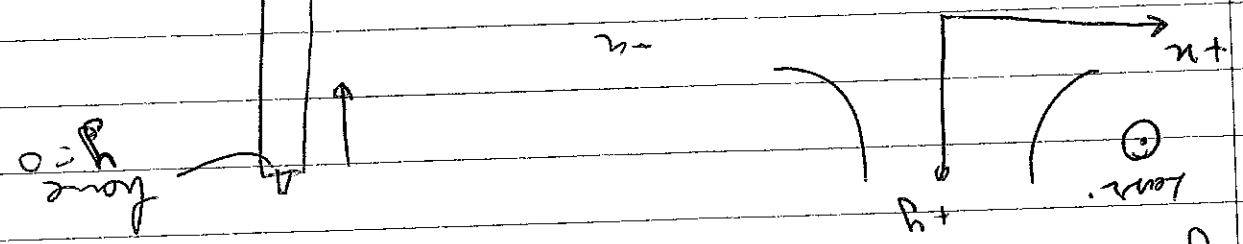
0.6.22-10 align lens.

your probe $B = 0.0506$ @ rate of approx table.
 PS off back $B = 0.0506$, Kosterka medium on.
 PS on read $B = 0.056$ @ same position.

put probe on Kosterka & align lens.

$K_0 = 56.25 \text{ mm}$, $y_0 = 109.5$ \rightarrow center of grid, with lens alignment

$K_{\text{next}} = 28 \text{ mm}$, $K_{\text{ms}} = 34.5 \text{ mm}$.
 $y_{\text{next}} = 85 \text{ mm}$, $y_{\text{ms}} = 134.5 \text{ mm}$



$K = n_0$, $y = y_0$ (center of grid) $B = 6.586$
 $= 56.25 \text{ mm}$, $= 109.5 \text{ mm}$

#2

0A → 3.12 G
 3A → 54.73 G
 6.15 → 108.05 G
 9.25A → 161.51 G
 12.4A → 215.3 G
 15.5A → 270 G
 18.6A → 325.1 G
 20.15A → 350.5

#1

0A → 3.12 G
 20.1A → 350.93 G
 18.6A → 325.7 G
 15.5A → 269 G
 12.35A → 215.43 G
 9.25A → 160.22 G
 6.15A → 106.25 G
 3A → 52.6 G
 0A → 3.53 G

Flip perched in.

-6.2A → -111.9 G
 -9.25A → -167.28 G
 -12.35A → -219.56 G
 -15.55A → -273.52 G
 -18.6A → -327.33 G
 -20.1A → -354.85 G
 -0A → -7.28 G

#

over to no B y o B = 6.934 G

that vertical axis for fixed $n:10 = 56.25$ mm
 and y varies from 85 mm to 134.5 mm

$y = 85$ mm	$B = 30.14$ G	$y = 85$ mm	$B = 30.14$ G
$y = 89$	$B = 26.65$ G	$y = 89$	$B = 26.65$ G
$y = 93$	$B = 22.86$ G	$y = 93$	$B = 22.86$ G
$y = 97$	$B = 18.98$ G	$y = 97$	$B = 18.98$ G
$y = 100$	$B = 16.07$ G	$y = 100$	$B = 16.07$ G
$y = 104$	$B = 12.28$ G	$y = 104$	$B = 12.28$ G
$y = 108$	$B = 8.45$ G	$y = 108$	$B = 8.45$ G
$y = 109.5$	$B = 6.995$ G	$y = 109.5$	$B = 6.995$ G
$y = 112$	$B = 4.55$ G	$y = 112$	$B = 4.55$ G
$y = 116$	$B = 0.684$ G	$y = 116$	$B = 0.684$ G
$y = 120$	$B = -3.19$ G	$y = 120$	$B = -3.19$ G
$y = 124$ mm	$B = -7.06$ G	$y = 124$ mm	$B = -7.06$ G
$y = 128$ mm	$B = -10.93$ G	$y = 128$ mm	$B = -10.93$ G
$y = 132$	$B = -14.88$ G	$y = 132$	$B = -14.88$ G
$y = 134.5$	$B = -17.37$ G	$y = 134.5$	$B = -17.37$ G

for 85 to 134.5

his for the bore field after n B y
 $n = 56.25$, $y = 117$ mm $\Rightarrow B = -1.48$, $n = 56.25$ mm, $y = 117$ mm
 $B = -0.48$ G

Adjust scan
 @ 34.5 mm
 +8 mm



$x = 34.5 \text{ mm}, y = 109.5 \text{ mm}$	$B = 256.52 \text{ G}$	236.50
$x = 38.5 \text{ mm}, y = 109.5 \text{ mm}$	$B = 194.68 \text{ G}$	194.58 G
$x = 42.5 \text{ mm}, y = 109.5 \text{ mm}$	$B = 152.49 \text{ G}$	152.33 G
$x = 46.5 \text{ mm}$	$B = 110.2 \text{ G}$	110.05 G
$x = 50.5 \text{ mm}$	$B = 68.02 \text{ G}$	67.86 G
$x = 54.5 \text{ mm}$	$B = 25.8 \text{ G}$	25.62 G
$x = 58.5 \text{ mm}$	$B = -16.43 \text{ G}$	-16.64 G
$x = 56.25 \text{ mm}$	$B = 7.21 \text{ G}$	7.04 G
$x = 62.5 \text{ mm}$	$B = -58.7 \text{ G}$	-58.904 G
$x = 66.5 \text{ mm}$	$B = -100.97 \text{ G}$	-101.19 G
$x = 70.5 \text{ mm}$	$B = -143.28 \text{ G}$	-143.51 G
$x = 74.5 \text{ mm}$	$B = -185.6 \text{ G}$	-185.86 G
$x = 78 \text{ mm}$	$B = -222.7 \text{ G}$	-222.95 G

\Rightarrow x scan
 that longitudinal scan x from 34.5 mm to
 +8 mm. with $y = 109.5$

$y = 99$

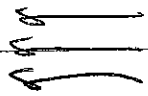
$n = 73$
 $n = 69$
 $n = 65$
 $B = -159.7$
 $B = -117.67$
 $B = -75.72$

$n = 37.5$	$n = 41$	$n = 45$	$n = 49$	$n = 53$	$n = 57$	$n = 61$	$n = 65$	$n = 69$	$n = 73$
$B = 216.53$	$B = 180.41$	$B = 138.87$	$B = 96.74$	$B = 54.54$	$B = 12.4$	$B = -29.73$	$B = -71.96$	$B = -114.07$	$B = -155.44$

1) $y = 95$

$n = 73$
 $y = 125$

$n = 37.5$
 $y = 125$



$n = 37.5$
 $y = 95$

$n = 37.5$
 $y = 95$

lets say $n = 73$ & $y = 95$

area scan.

hoch für jede $n = 56.25$ $y = 116.5$
 Very untable $-0.0536 \rightarrow 0.48$

$n = 34.5$ mm	$B = 230.8$ G	$B = 230.67$ G
$n = 38.5$ "	$B = 187.88$ G	$187.7 \cdot 336$
$n = 42.5$ "	$B = 145.44$ G	145.27 G
$n = 46.5$	$B = 103.14$ G	103.03 G
$n = 50.5$	$B = 61.04$ G	60.84 G
$n = 54.5$	$B = 18.75$ G	18.61 G
$n = 56.25$	$B = 0.15$ G	-0.035 G (untable)
$n = 58.5$	$B = -23.5$ G	-23.66 G
$n = 62.5$	$B = -65.75$ G	-65.87 G
$n = 66.5$	$B = -107.99$ G	-108.17 G
$n = 70.5$	$B = -150.29$ G	-150.51 G
$n = 74.5$ mm	$B = -192.8$ G	-193.0 G
$n = 78$ mm	$B = -230.5$ G	-230.67

da n scan für fixed $y = 116.5$ mm

~~XXXXXXXXXX~~

New you
 $n = 56.25$ $y = 116.5$ mm $B = 0.06$ G
 \downarrow
~~0.26~~ 0.26
 lower

$$y = 119 \text{ mm} \quad n = 73 \text{ mm} \quad V = -179.51$$

$n = 73$	$V = -175.83$
$n = 69$	$V = -133.63$
$n = 65$	$V = -91.57$
$n = 61$	$V = -49.5$
$n = 57$	$V = -7.48$
$n = 53$	$V = 34.62$
$n = 49$	$V = 76.77$
$n = 45$	$V = 118.95$
$n = 41$	$V = 161.21$
$n = 37.5$	$V = 198.5$

$n = 37.5$	$V = 202.13$
$n = 41$	$V = 165.18$
$n = 45$	$V = 123$
$n = 49$	$V = 80.76$
$n = 53 \text{ mm}$	$V = 38.65$
$n = 57 \text{ mm}$	$V = -3.4$
$n = 61$	$V = 45.45$
$n = 65 \text{ mm}$	$V = -87.6$
$n = 69$	$V = -129.75$
$n = 73 \text{ mm}$	$V = -171.94$

$n = 73$	$V = -168.056$
$n = 69$	$V = -125.8$
$n = 65$	$V = -83.68$

$$y = 111 \text{ mm} \quad n = 73 \text{ mm} \quad V = -171.94$$

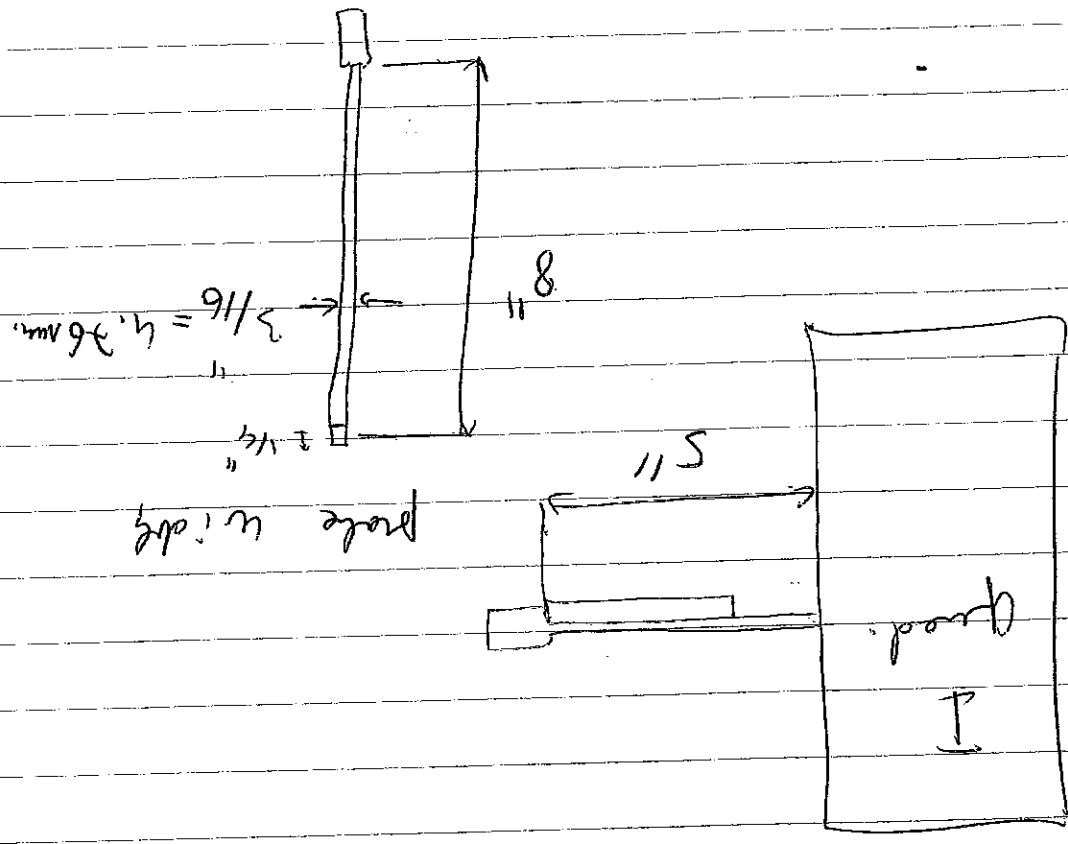
$$y = 107 \text{ mm} \quad n = 65$$

$n = 61$
 $n = 57$
 $n = 53$
 $n = 49$
 $n = 45$
 $n = 41$
 $n = 37.5 \text{ mm}$ $n = 107 \text{ mm}$
 $n = 33.5 \text{ mm}$ $n = 206.19$
 $n = 29.5 \text{ mm}$ $n = 169.2$
 $n = 25.5 \text{ mm}$ $n = 127$
 $n = 21.5 \text{ mm}$ $n = 84.8$
 $n = 17.5 \text{ mm}$ $n = 42.7$
 $n = 13.5 \text{ mm}$ $n = 0.66$
 $n = 9.5 \text{ mm}$ $n = -41.53$

$n = 61$
 $n = 65$
 $n = 69$
 $n = 73 \text{ mm}$ $n = 103 \text{ mm}$
 $n = 77$ $n = 164.02$
 $n = 81$ $n = 121.83$
 $n = 85$ $n = -39.21$
 $n = 89$ $n = -37.6$
 $n = 93$ $n = 4.47$
 $n = 97$ $n = 46.6$
 $n = 101$ $n = 88.72$
 $n = 105$ $n = 130.93$
 $n = 109$ $n = 173.14$
 $n = 113$ $n = 210.42$

$n = 61$
 $n = 57$
 $n = 53$
 $n = 49$
 $n = 45$
 $n = 41$
 $n = 37.5$
 $n = 33.5$
 $n = 29.5$
 $n = 25.5$
 $n = 21.5$
 $n = 17.5$
 $n = 13.5$
 $n = 9.5$

next time do steps of 5mm.



probe.

- $n = 53$
- $n = 49$
- $n = 45$
- $n = 41$
- $n = 37.5$
- $R = 24.83$
- $R = 67.02$
- $R = 109.21$
- $R = 150.84$
- $R = 186.87$

$y = 125 \text{ mm}$

$n = 125$ $n = 73$
 $n = 61$
 $n = 65$
 $n = 69$
 $n = 57$
 $n = 125$

$n = 33.5$ $n = 189.55$
 $n = 41$
 $n = 45$
 $n = 49$
 $n = 53$
 $n = 57$
 $n = 61$
 $n = 65$
 $n = 69$
 $n = 73$
 $n = 123$

$n = 119$ $n = 137.37$
 $n = 69$
 $n = 65$
 $n = 61$
 $n = 57$
 $n = 53$
 $n = 49$
 $n = 45$
 $n = 41$
 $n = 37.5$
 $n = 194.45$

$$y_0 = 111 \quad R = -2.6$$

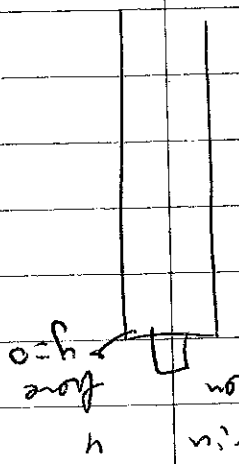
from bottom count in 20.00 H.

$$R = 6.7 \text{ G. } (n_0, y_0)$$

Area worked, $n = n_0$ col y_0 varying from 135 (down) $n - 1$ to 88 (up $n + 1$).

is steps of 3 mm. from top for bottom star

$n = n_0$	$y = 91 \text{ mm}$	$R = 2.6 \text{ G}$	25.85 G
$n = n_0$	$y = 88 \text{ mm}$	$R = 28.7 \text{ G}$	28.52 G
"	$y = 94$	$R = 23.17 \text{ G}$	23.03 G
"	$y = 97$	$R = 20.27 \text{ G}$	20.15 G
"	$y = 100$	$R = 17.36 \text{ G}$	17.2 G
"	$y = 103$	$R = 14.44 \text{ G}$	14.29 G
"	$y = 106$	$R = 11.54 \text{ G}$	11.4 G
"	$y = 109$	$R = 8.65 \text{ G}$	8.52 G
"	$y = 111$	$R = 6.7 \text{ G}$	6.6 G
"	$y = 112$	$R = 5.75 \text{ G}$	5.63 G
"	$y = 115$	$R = 2.85 \text{ G}$	2.74 G
"	$y = 118$	$R = -0.05 \text{ G}$	-0.14 G
"	$y = 121$	$R = -2.94 \text{ G}$	-3 G
"	$y = 124$	$R = -5.81 \text{ G}$	-5.9 G
"	$y = 127$	$R = -8.67 \text{ G}$	-8.78 G
"	$y = 130$	$R = -11.54 \text{ G}$	-11.66 G
"	$y = 133$	$R = -14.47 \text{ G}$	-14.58 G
"	$y = 135$	$R = -16.45 \text{ G}$	-16.55 G

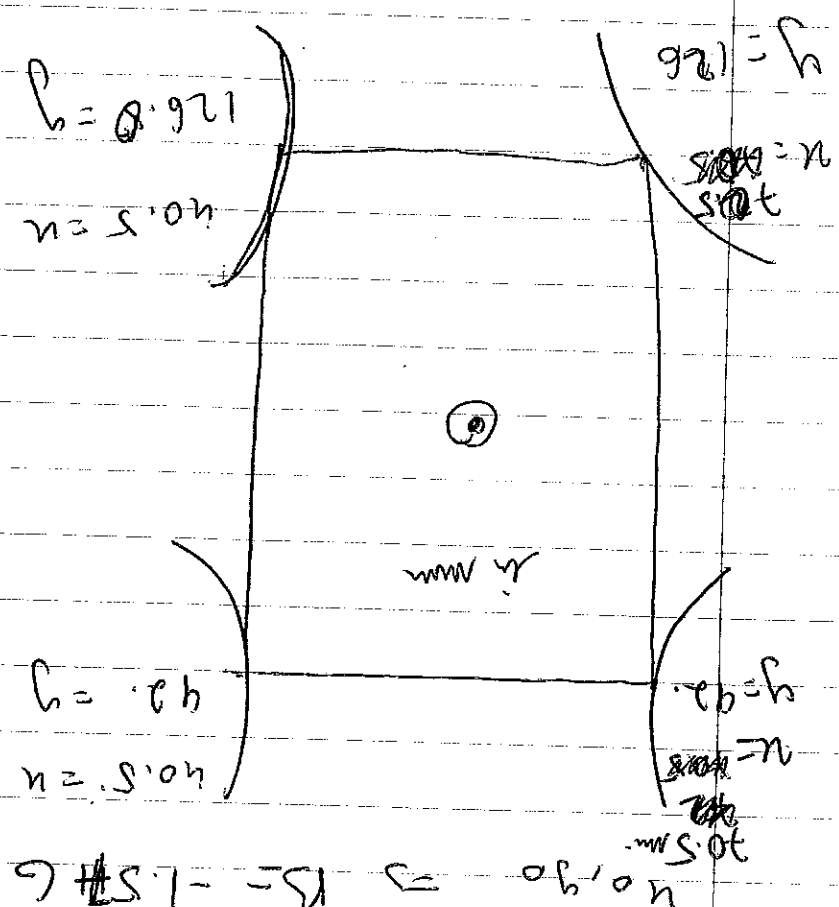


06-25-10 red measurements

always probe with the same
 your probe. PS off $B = 0.006$
 @ hole diam.

PS on $B = 0.006$ no current going to ground
 always probe with the the
 code $n_0 = 57.5$ mm $y_0 = 111$ mm.

field with PS on but no current @ the
 $n_0, y_0 \Rightarrow B = -1.576$
 30.5 mm



$n = 76$	$n = 21$	$n = 21.5$
$n = 21$	$n = 71$	$n = 71.5$
$n = 258.21$	$n = -258.21$	$n = -258.21$
$n = -186.74$	$n = -186.74$	$n = -186.74$
$n = -193.84$	$n = -193.84$	$n = -193.84$

end
~~St. Major~~
~~Batch of 100~~
 for $n = 40 = 57.5$ $y = 40 = 111 \Rightarrow B = 6$ G.

turn of q for 0 current $B = -2.36$ G.
 $n = n_0, y = y_0$.

current $r + 20.0$ de 0 in 0 0.5 mm.
 first q for $n = n_0, y = y_0$ $B = 6.74$ G.

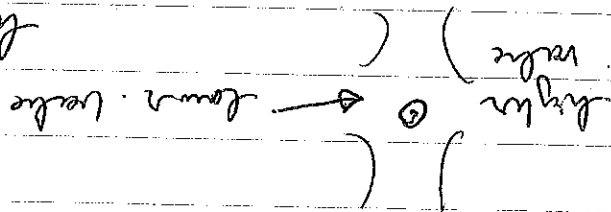
Keep y constant at q mm.
 $n = 92$ mm, $y = 92$ mm, $B = 92$ mm.

$n = 92$ mm	$n = 90.5$	$n = 90.5$
$n = 68$	$n = 68$	$n = 68$
$n = 65.5$	$n = 65.5$	$n = 65.5$
$n = 63$	$n = 63$	$n = 63$
$n = 60.5$	$n = 60.5$	$n = 60.5$
$n = 58$	$n = 58$	$n = 58$
$n = 55.5$	$n = 55.5$	$n = 55.5$
$n = 53$	$n = 53$	$n = 53$

we have $n = n_0$, $y = y_0$, $B = 6.36$

* we scan keep y found at y_0 col no

rows from 335 to 375



done, $n=0$

direction of scan

steps of 2.5 mm

$y = y_0$ $n = 33.5$ $B = 347.45$ $G = 347.37$ G

$n = 36$ $B = 312.54$ $G = 312.44$ G

$n = 38.5$ $B = 272.45$ $G = 272.3$ G

$n = 41$ $B = 241.7$ $G = 241.43$ G

$n = 43.5$ $B = 206.18$ $G = 205.9$ G

$n = 46$ $B = 170.20$ $G = 169.92$ G

$n = 48.5$ $B = 134.7$ $G = 134.44$ G

$n = 51$ $B = 98.22$ $G = 98.48$ G

$n = 53.5$ $B = 63.33$ $G = 63.07$ G

$n = 56$ $B = 27.4$ $G = 27.17$ G

$n = 58.5$ $B = -8.07$ $G = -8.22$ G

$n = 61$ $B = -44.99$ $G = -44.1$ G

$n = 63.5$ $B = -79.4$ $G = -79.54$ G

$n = 66$ $B = -115.28$ $G = -115.41$ G

$n = 68.5$ $B = -150.77$ $G = -150.9$ G

$n = 71.5$ $B = -193.6$ $G = -193.74$ G

$n = 73.5$ $B = -222.22$ $G = -222.76$ G

$n = 102$
 $n = 30.5$ $B = -171.11$ G
 $n = 68$ $B = -135.7$ G
 $n = 65.5$ $B = -99.74$ G

$n = 20.5$ $B = -168.6$
 $n = 68$ $B = -133.19$
 $n = 65.5$ $B = -97.18$ G
 $n = 63$ $B = -61.61$ G
 $n = 60.5$ $B = -25.56$ G
 $n = 58$ $B = 9.96$ G
 $n = 55.5$ $B = 45.98$ G
 $n = 53$ $B = 81.56$ G
 $n = 50.5$ $B = 117.57$ G
 $n = 48$ $B = 153.14$ G
 $n = 45.5$ $B = 189.1$ G
 $n = 43$ $B = 224.48$ G
 $n = 40.5$ $B = 260.5$ G

$n = 58$ $B = 12.38$ G
 $n = 55.5$ $B = 48.41$ G
 $n = 53$ $B = 84.05$ G
 $n = 50.5$ $B = 120.16$ G
 $n = 48$ $B = 155.76$ G
 $n = 45.5$ $B = 191.60$ G
 $n = 43$ $B = 226.77$ G
 $n = 40.5$ $B = 262.18$ G

$y = 97$ $x = 20.5$ $B = -165.96$
 $x = 68$ $B = -130.576$
 $x = 65.5$ $B = -94.626$
 $x = 63$ $B = -59.086$
 $x = 60.5$ $B = -23.08$

$y = 94.5$ $x = 40.5$ $B = 264.046$
 $x = 45$ $B = 229.576$
 $x = 45.5$ $B = 194.656$
 $x = 48$ $B = 158.656$
 $x = 50.5$ $B = 122.856$
 $x = 53$ $B = 86.686$
 $x = 55.5$ $B = 51.026$
 $x = 58$ $B = 15.066$
 $x = 60.5$ $B = -20.396$
 $x = 63$ $B = -56.416$
 $x = 65.5$ $B = -92.026$
 $x = 68$ $B = -128.226$
 $x = 70.5$ $B = -163.32$

$y = 92$ $x = 50.5$ $B = 125.46$
 $x = 48$ $B = 161.536$
 $x = 45.5$ $B = 198.026$
 $x = 45$ $B = 233.036$
 $x = 40.5$ $B = 258.126$

y

y = 97

$n = 20.5$
 $n = 68$
 $n = 65.5$
 $n = 63$
 $n = 60.5$
 $n = 58$
 $n = 55.5$
 $n = 53$
 $n = 50.5$
 $n = 48$
 $n = 45.5$
 $n = 43$
 $n = 40.5$

$y = 109.5 \text{ mm}$

$n = 40.5$
 $n = 43$
 $n = 45.5$
 $n = 48$
 $n = 50.5$
 $n = 53.5$
 $n = 55.5$
 $n = 58$
 $n = 60.5$
 $n = 63$
 $n = 65.5$
 $n = 68$
 $n = 70.5$

$y = 107 \text{ mm}$

$B = 250.4 \text{ G}$
 $B = 214.2 \text{ G}$
 $B = 178.48 \text{ G}$
 $B = 142.37 \text{ G}$
 $B = 106.71 \text{ G}$
 $B = 70.76 \text{ G}$
 $B = 35.25 \text{ G}$
 $B = 7.9 \text{ G}$
 $B = -36.34 \text{ G}$
 $B = -72.39 \text{ G}$
 $B = -107.89 \text{ G}$
 $B = -144 \text{ G}$
 $B = -179.47 \text{ G}$

$B = 252.57 \text{ G}$
 $B = 216.44 \text{ G}$
 $B = 180.8 \text{ G}$
 $B = 144.8 \text{ G}$
 $B = 109.22 \text{ G}$
 $B = 73.35 \text{ G}$
 $B = 37.85 \text{ G}$
 $B = 1.84 \text{ G}$
 $B = -33.6 \text{ G}$
 $B = -69.55 \text{ G}$
 $B = -105.06 \text{ G}$
 $B = -141.1 \text{ G}$
 $B = -176.67 \text{ G}$

$\mu = 104.5$
 $n = 40.5$ $\mu = 40.5$ $\mu = 255.64$ $\mu = 219.37$ $\mu = 183.24$
 $n = 48$ $\mu = 147.5$ $\mu = 111.96$ $\mu = 76.03$ $\mu = 40.5$
 $n = 55.5$ $\mu = 55.5$ $\mu = 40.5$ $\mu = 4.41$ $\mu = 31.1$
 $n = 60.5$ $\mu = 60.5$ $\mu = -67.05$ $\mu = -102.57$ $\mu = -138.64$
 $n = 63$ $\mu = 63$ $\mu = -67.05$ $\mu = -102.57$ $\mu = -138.64$
 $n = 65.5$ $\mu = 65.5$ $\mu = -102.57$ $\mu = -138.64$ $\mu = -174.2$
 $n = 68$ $\mu = 68$ $\mu = -138.64$ $\mu = -174.2$ $\mu = -174.2$
 $n = 70.5$ $\mu = 70.5$ $\mu = -174.2$ $\mu = -174.2$ $\mu = -174.2$

$\mu = 102$
 $n = 63$ $\mu = 63$ $\mu = -64.28$ $\mu = -28.32$ $\mu = 7.15$
 $n = 60.5$ $\mu = 60.5$ $\mu = -28.32$ $\mu = 7.15$ $\mu = 43.24$
 $n = 58$ $\mu = 58$ $\mu = 7.15$ $\mu = 43.24$ $\mu = 78.8$
 $n = 55.5$ $\mu = 55.5$ $\mu = 43.24$ $\mu = 78.8$ $\mu = 114.76$
 $n = 50.5$ $\mu = 50.5$ $\mu = 114.76$ $\mu = 150.35$ $\mu = 186.38$
 $n = 48$ $\mu = 48$ $\mu = 150.35$ $\mu = 186.38$ $\mu = 221.95$
 $n = 45.5$ $\mu = 45.5$ $\mu = 186.38$ $\mu = 221.95$ $\mu = 258.17$
 $n = 43$ $\mu = 43$ $\mu = 221.95$ $\mu = 258.17$ $\mu = 258.17$
 $n = 40.5$ $\mu = 40.5$ $\mu = 258.17$ $\mu = 258.17$ $\mu = 258.17$

$n = 30.5$
 $n = 68$
 $n = 65.5$
 $n = 63$
 $n = 60.5$
 $n = 58$
 $n = 55.5$
 $n = 53$
 $n = 50.5$
 $n = 48$
 $n = 45.5$
 $n = 43$
 $n = 40.5$

$y = 119.5$

$n = 30.5$
 $n = 63$
 $n = 65.5$
 $n = 68$
 $n = 70.5$
 $n = 73$
 $n = 75.5$
 $n = 78$
 $n = 80.5$
 $n = 83$
 $n = 85.5$
 $n = 88$
 $n = 90.5$
 $n = 93$
 $n = 95.5$
 $n = 98$
 $n = 100.5$
 $n = 103$
 $n = 105.5$
 $n = 108$
 $n = 110.5$
 $n = 113$
 $n = 115.5$
 $n = 118$
 $n = 120.5$
 $n = 123$
 $n = 125.5$
 $n = 128$
 $n = 130.5$
 $n = 133$
 $n = 135.5$
 $n = 138$
 $n = 140.5$
 $n = 143$
 $n = 145.5$
 $n = 148$
 $n = 150.5$
 $n = 153$
 $n = 155.5$
 $n = 158$
 $n = 160.5$
 $n = 163$
 $n = 165.5$
 $n = 168$
 $n = 170.5$
 $n = 173$
 $n = 175.5$
 $n = 178$
 $n = 180.5$
 $n = 183$
 $n = 185.5$
 $n = 188$
 $n = 190.5$
 $n = 193$
 $n = 195.5$
 $n = 198$
 $n = 200.5$

$y = 117$

$n = 70.5$
 $n = 68$
 $n = 65.5$
 $n = 63$
 $n = 60.5$
 $n = 58$
 $n = 55.5$
 $n = 53$
 $n = 50.5$
 $n = 48$
 $n = 45.5$
 $n = 43$
 $n = 40.5$

$n = 70.5$
 $n = 68$
 $n = 65.5$
 $n = 63$
 $n = 60.5$
 $n = 58$
 $n = 55.5$
 $n = 53$
 $n = 50.5$
 $n = 48$
 $n = 45.5$
 $n = 43$
 $n = 40.5$

$y = 114.5$

$y = 112$

$B = 245.07 G$

$B = 208.87 G$

$B = 173.1 G$

$B = 137.08 G$

$B = 101.43 G$

$B = 65.4 G$

$B = 29.8 G$

$B = -6.15 G$

$B = -41.65 G$

$B = -77.73 G$

$B = -113.23 G$

$B = -149.26 G$

$B = -184.75 G$

Mew Measurement. $I = 20A$.
 $y = 92 \text{ mm}$
 $n = 70.5 \text{ mm}$
 $n = 68$
 $n = 65.5$
 $n = 63$
 $n = 60.5$
 $n = 58$
 $n = 55.5$
 $n = 53$

$B = -92.91$
 $B = -57.22$
 $B = -21.22$
 $B = +14.06$
 $B = +49.81$
 $B = +85.59$

~~$B = -120.33$~~
 ~~$B = -164.95$~~
 ~~$B = -164.95$~~
 ~~$B = -164.95$~~
 ~~$B = -164.95$~~
 ~~$B = -164.95$~~

$I = 0 \Rightarrow B = 3.87 \text{ G}$
 $n = n_0, y = 90$

for $n = n_0, y = 90$
 $B = 3.6 \text{ G}$
 $I = 20A$

$n = 70.5$
 $n = 68$
 $n = 65.5$
 $n = 63$
 $n = 60.5$
 $n = 58$
 $n = 55.5$
 $n = 53$
 $n = 50.5$
 $n = 48$
 $n = 43$
 $n = 40.5$

$B = -197.4$
 $B = -162.0$
 $B = -126$
 $B = -90.34$
 $B = -54.44$
 $B = -19.15$
 $B = 16.85$
 $B = 52.80$
 $B = 88.85$
 $B = 124.9$
 $B = 195$
 $B = 229.76$

$y = 127 \text{ mm}$

$$y = 124.5$$

$n = 40.5$	$B = 235.25$
$n = 43$	$B = 197.65$
$n = 48$	$B = 126.52$
$n = 50.5$	$B = 91$
$n = 53$	$B = 55.1$
$n = 55.5$	$B = 19.47$
$n = 58$	$B = -16.63$
$n = 60.5$	$B = -52.30$
$n = 63$	$B = -88.15$
$n = 65.5$	$B = -123.80$
$n = 68$	$B = -159.45$
$n = 70.5$	$B = -194.50$

$$y = 122$$

$n = 40.5$	$B = 236.45$
$n = 43$	$B = 200.50$
$n = 48$	$B = 129.06$
$n = 50.5$	$B = 93.5$
$n = 53$	$B = 57.50$
$n = 55.5$	$B = 22.18$
$n = 58$	$B = -13.93$
$n = 60.5$	$B = -48.97$
$n = 63$	$B = -85.15$
$n = 65.5$	$B = -129.94$
$n = 68$	$B = -156.9$
$n = 70.5$	$B = -191.63$

name

$x = 102$
 $x = 70.5$
 $x = 68$
 $B = -174.91$
 $B = -139.28$

$x = 70.5$
 $x = 68$
 $x = 65.5$
 $x = 63$
 $x = 60.5$
 $x = 58$
 $x = 55.5$
 $x = 53$
 $x = 50.5$
 $x = 48$
 $x = 45.5$
 $x = 43$
 $x = 40.5$ mm
 $B = -172.61$
 $B = -137.18$
 $B = -100.86$
 $B = -65.32$
 $B = -29.30$
 $B = +5.95$
 $B = +42.15$
 $B = +77.76$
 $B = +113.65$
 $B = +148.90$
 $B = +184.84$
 $B = +220.18$
 $B = +256.18$

$x = 97.0$ mm
 $x = 60.5$
 $x = 58$
 $x = 55.5$
 $x = 53$
 $x = 50.5$
 $x = 48$
 $x = 45.5$
 $x = 43$
 $x = 40.5$
 $B = -26.91$
 $B = +8.47$
 $B = +44.41$
 $B = +79.88$
 $B = +115.83$
 $B = +151.36$
 $B = +187.22$
 $B = +222.35$
 $B = +257.66$

$$m = 970 \text{ mm}$$

$x = 70.5$
 $x = 68$
 $x = 65.5$
 $x = 63$
 $B = -165.66$
 $B_z = -134.26$
 $B = -98.46$
 $B_z = -62.90$

$x = 70.5$
 $x = 68$
 $x = 65.5$
 $x = 63$
 $x = 61.5$
 $x = 58$
 $x = 55.5$
 $x = 53$
 $x = 50.5$
 $x = 48$
 $x = 45.5$
 $x = 43$
 $x = 40.5$
 $B = -167.30$
 $B = -131.69$
 $B = -95.74$
 $B = -60.12$
 $B = -23.75$
 $B = +11.39$
 $B = +47.26$
 $B = +82.70$
 $B = +118.98$
 $B = +154.75$
 $B = +190.63$
 $B = +225.44$
 $B = +260.01$

$$n = 10 \quad y = 40 \quad B = 2.53 \text{ G}$$

$n = 40.5$
 $n = 43$
 $n = 45.5$
 $n = 48$
 $n = 50.5$
 $B = +256.22$
 $B_z = +229.14$
 $B_z = +194.16$
 $B_z = +157.73$
 $B_z = +121.82$

$$y = 92$$

G	$B = -182.23$	$X = 70.5$
G	$B = -146.71$	$X = 68$
G	$B = -110.61$	$X = 65.5$
G	$B = -75.35$	$X = 63$
G	$B = -39.40$	$X = 60.5$
G	$B = -3.80$	$X = 58$
G	$B = +31.91$	$X = 55.5$
G	$B = +67.61$	$X = 53$
G	$B = +103.56$	$X = 50.5$
G	$B = +138.96$	$X = 48$
G	$B = +175.01$	$X = 45.5$
G	$B = +210.49$	$X = 43$
G	$B = +246.38$	$X = 40.5$

$\eta = 109.5 \text{ mm}$

G	$B = +249.34$	$X = 40.5$
G	$B = +213.41$	$X = 43$
G	$B = +184.60$	$X = 45.5$
G	$B = +141.52$	$X = 48$
G	$B = +105.72$	$X = 50.5$
G	$B = +69.63$	$X = 53$
G	$B = +34.12$	$X = 55.5$
G	$B = -1.76$	$X = 58$
G	$B = -37.21$	$X = 60.5$
G	$B = -73.24$	$X = 63$
G	$B = -108.77$	$X = 65.5$
G	$B = -144.72$	$X = 68$
G	$B = -180.08$	$X = 70.5$

$\eta = 107 \text{ mm}$

G	$B = +251.67$	$X = 40.5$
G	$B = +215.52$	$X = 43$
G	$B = +179.88$	$X = 45.5$
G	$B = +143.91$	$X = 48$
G	$B = +108.50$	$X = 50.5$
G	$B = +72.46$	$X = 53$
G	$B = +36.88$	$X = 55.5$
G	$B = +6.85$	$X = 58$
G	$B = -34.54$	$X = 60.5$
G	$B = -70.46$	$X = 63$
G	$B = -106.00$	$X = 65.5$
G	$B = -141.59$	$X = 68$
G	$B = -177.24$	$X = 70.5$

$X = 104.5$

G	$B = -103.37$	$X = 65.5$
G	$B = -67.97$	$X = 63$
G	$B = -32.10$	$X = 60.5$
G	$B = +3.35$	$X = 58$
G	$B = +39.41$	$X = 55.5$
G	$B = +74.83$	$X = 53$
G	$B = +110.75$	$X = 50.5$
G	$B = +146.22$	$X = 48$
G	$B = +182.18$	$X = 45.5$
G	$B = +217.75$	$X = 43$
G	$B = +254.17$	$X = 40.5$

$X = 102$

0 = r

1

$B = -192.19$
 $B = -156.76$
 $B = -120.77$
 $B = -85.37$
 $B = -49.52$
 $B = -13.98$
 $B = 22.25$
 $B = 57.95$
 $B = 93.84$
 $B = 129.27$
 $B = 165.37$
 $B = 200.75$
 $B = +236.55$

$B = +239.27$
 $B = +203.34$
 $B = +167.46$
 $B = +131.77$
 $B = +96.48$
 $B = +60.26$
 $B = +24.76$
 $B = -11.28$
 $B = -46.61$
 $B = -82.40$
 ~~$B = -117.79$~~
 $B = -153.90$
 $B = -189.61$

G
 C
 G

$X = 70.5$
 $X = 68$
 $X = 65.5$
 $X = 63$
 $X = 60.5$
 $X = 58$
 $X = 55.5$
 $X = 53$
 $X = 50.5$
 $X = 48$
 $X = 45.5$
 $X = 43$
 $X = 40.5$

$X = 40.5$
 $X = 48$
 $X = 45.5$
 $X = 48$
 $X = 50.5$
 $X = 53$
 $X = 55.5$
 $X = 58$
 $X = 60.5$
 $X = 63$
 $X = 65.5$
 $X = 68$
 $X = 70.5$

Gz 117mm

Gz 119.5mm

B = -187.15
 B = -151.98
 B = -116.05
 B = -80.56
 B = -44.68
 B = ~~12.9.21~~
 B = +12.6.63
 B = +62.17
 B = +98.13
 B = +133.72
 B = +165.82
 B = +205.46
 B = +241.56

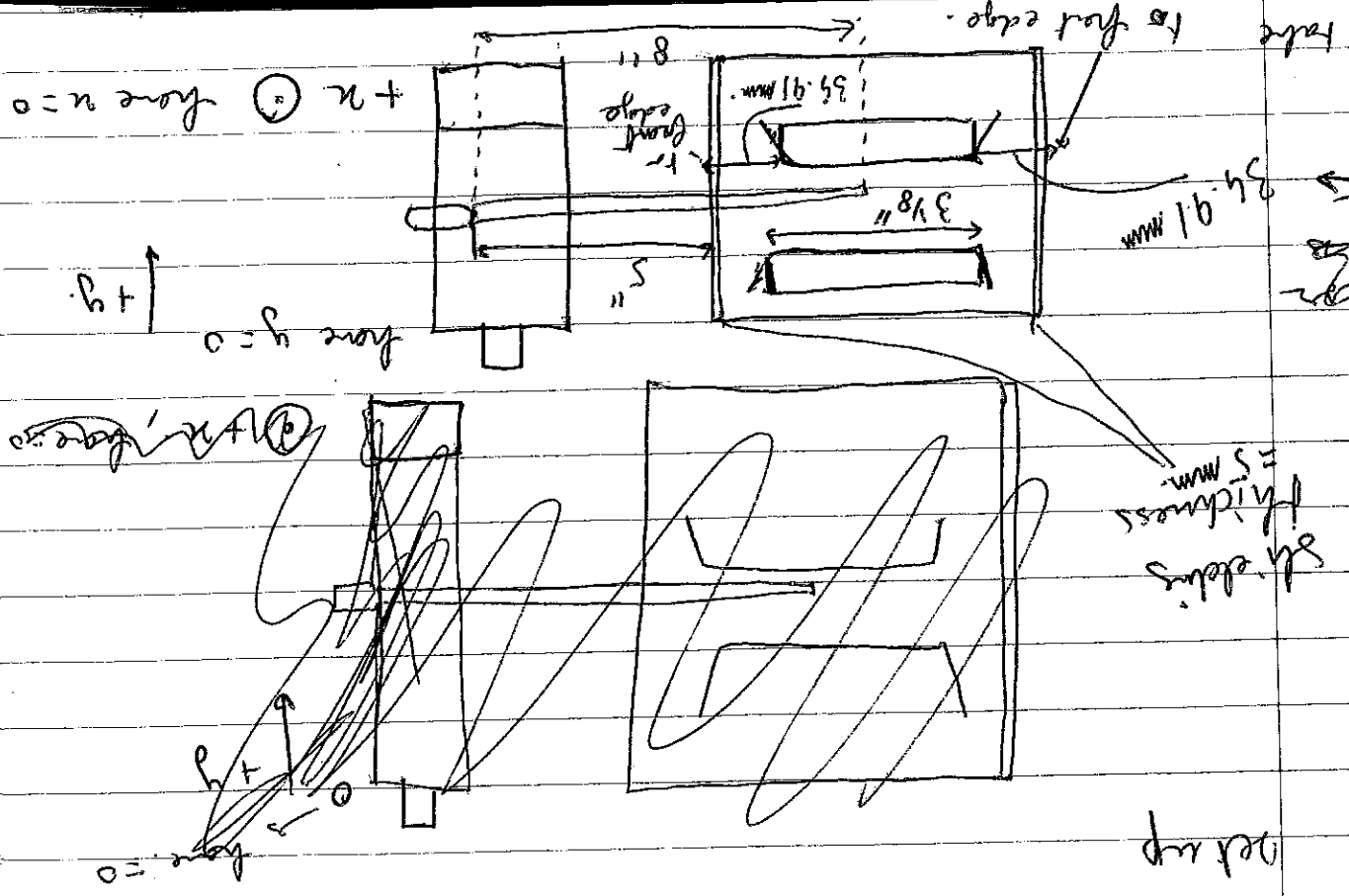
 B = +243.85
 B = +207.65
 B = +172.12
 B = +136.08
 B = +100.67
 B = +64.84
 B = +29.31
 B = -6.46
 B = -41.35
 B = -77.50
 B = -113.19
 B = -149.18
 B = -184.34

X = 70.5
 X = 68
 X = 65.5
 X = 63
 X = 60.5
 X = 58
 X = 55.5
 X = 53
 X = 50.5
 X = 48
 X = 45.5
 X = 43
 X = 40.5

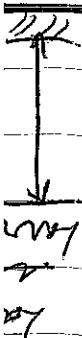
 X = 40.5
 X = 43
 X = 45.5
 X = 48
 X = 50.5
 X = 53
 X = 55.5
 X = 58
 X = 60.5
 X = 63
 X = 65.5
 X = 68
 X = 70.5

$x = 144.5m$

$x = 12m$



$x = 70.5$	$B = -119.19$
$x = 68$	$B = -163.99$
$x = 65.5$	$B = -127.92$
$x = 63$	$B = -92.38$
$x = 60.5$	$B = -56.37$
$x = 58$	$B = -21.16$
$x = 55.5$	$B = +14.70$
$x = 53$	$B = +50.02$
$x = 50.5$	$B = +85.95$
$x = 48$	$B = +121.76$
$x = 45.5$	$B = +157.65$
$x = 43$	$B = +192.66$
$x = 40.5$	$B = +227.57$



N

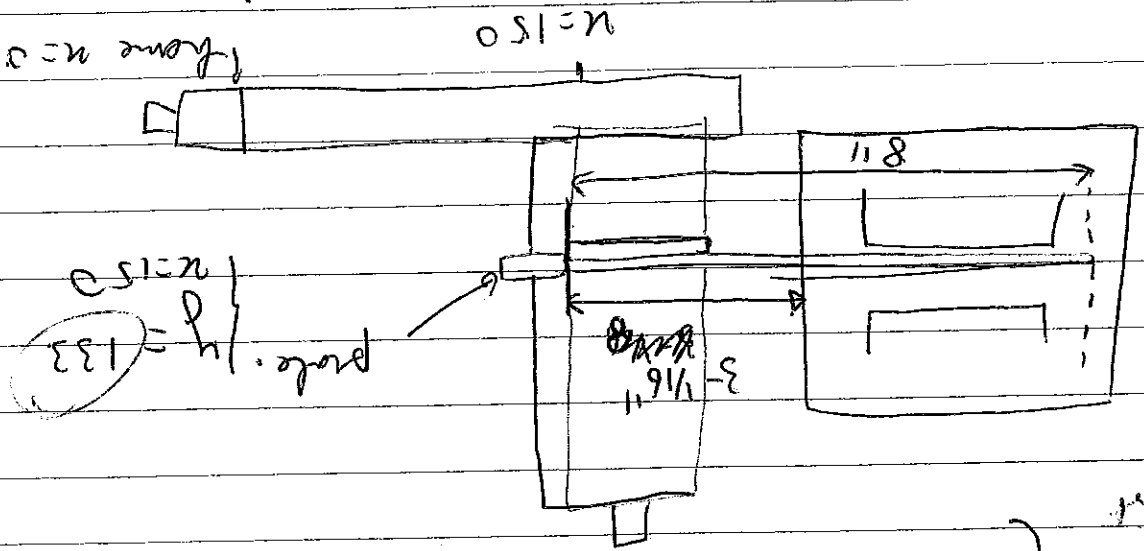
196.29	B =	-196.29	X = 70.5
-160.94	B =	-160.94	X = 68
-124.92	B =	-124.92	X = 65.5
-89.42	B =	-89.42	X = 63
-53.61	B =	-53.61	X = 60.5
-18.35	B =	-18.35	X = 58
17.54	B =	+17.54	X = 55.5
+52.96	B =	+52.96	X = 53
+88.97	B =	+88.97	X = 50.5
+124.35	B =	+124.35	X = 48
+160.17	B =	+160.17	X = 45.5
+195.41	B =	+195.41	X = 43
+230.96	B =	+230.96	X = 40.5
<hr/>			
+233.90	B =	+233.90	X = 40.5
+197.90	B =	+197.90	X = 43
+162.58	B =	+162.58	X = 45.5
+126.70	B =	+126.70	X = 48
+91.49	B =	+91.49	X = 50.5
+55.44	B =	+55.44	X = 53
+19.96	B =	+19.96	X = 55.5
-16.01	B =	-16.01	X = 58
-51.35	B =	-51.35	X = 60.5
-87.26	B =	-87.26	X = 63
-122.48	B =	-122.48	X = 65.5
-158.37	B =	-158.37	X = 68
194.12	B =	-194.12	X = 70.5

$\Sigma = 124.5 \text{ mm}$

$\Sigma = 122 \text{ mm}$

06-27

Measurements field along 3 drive lines



1) put probe @ corner of table. and take field with fixed PS off. This is done of course after going $R = 10.24 \text{ cm}$

2- PS on measure field. ($I=0 \text{ nA}$) $R = \pm 0.24 \text{ cm}$

3) put probe in transfer and X-ray counter 20 A

all the measurement were carried out
when the shielding plots were attached
to the graph.

graph

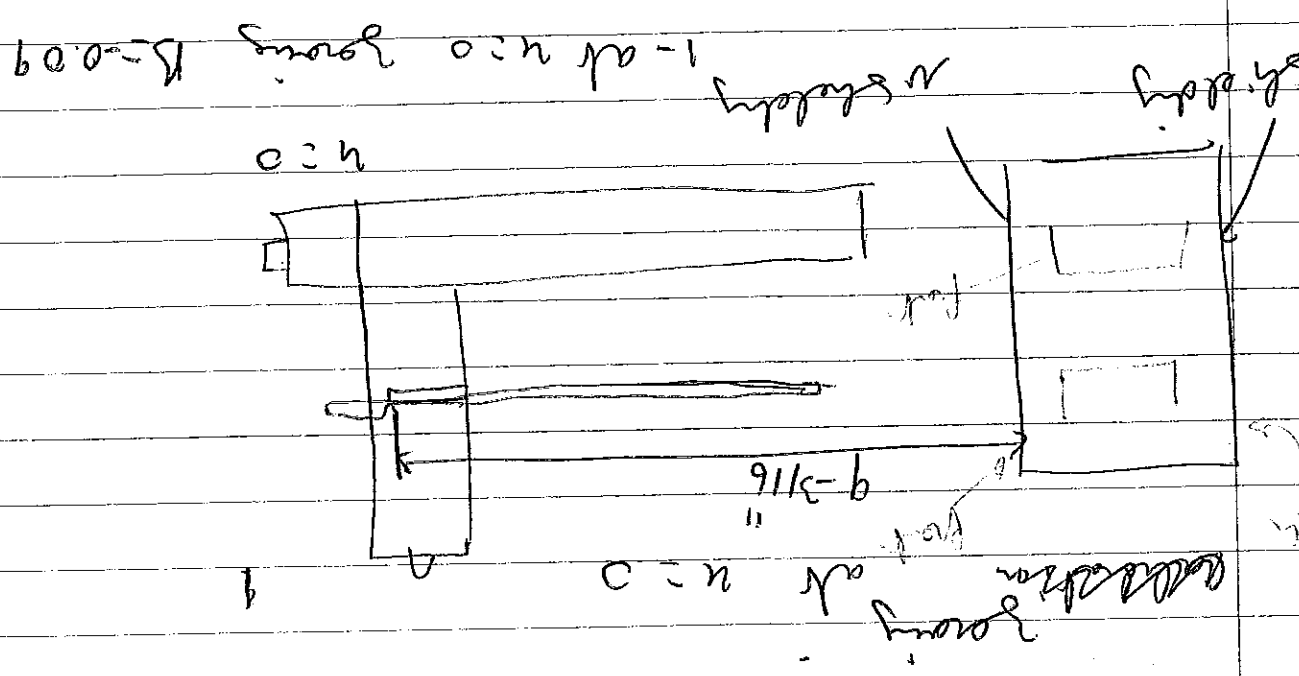
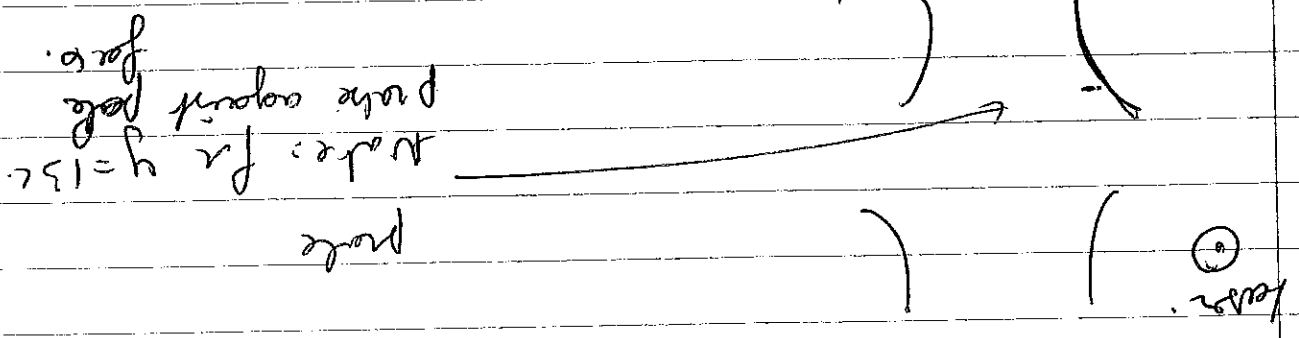
(c)

101

n = 85	B = -300.4	-300.73
n = 82.5	B = -301.17	-301.5
n = 80	B = -302.18	-302.5
n = 77.5	B = -303.46	-303.76
n = 75	B = -305.77	-305.9
n = 72.5	B = -309.23 G	-309.37
n = 70	B = -315.07	-315.17
n = 67.5	B = -325.14	-325.14
n = 65	B = -343.12 G	-343.03
n = 62.5	B = -368.25	-367.83
n = 60	B = -323.25	-322.875
n = 57.5	B = -214.74 ← (allows for the edge)	-214.58 (up peak)
n = 55	B = -157.4 G	-157.17 G
n = 52.5	B = -124.41 G	-124.35
n = 50	B = -101.36	-101.37
n = 47.5	B = -82.7	-82.8
n = 45	B = -66.9 G	-67.17
n = 42.5	B = -52.86 G	-53.11
n = 40	B = -40.1 G	-40.37
n = 37.5	B = -27.76 G	-28.12
n = 35	B = -15.63 G	-16.05
n = 32.5	B = -3.36	-3.83
n = 30	B = 5.11 G	4.54
n = 27.5	B = 5.43 G	4.81
n = 25	B = 2.756	2.13

$n = 87.5$	$B = -299.8 \text{ G}$	-300.1
$n = 90$	$B = -299.35 \text{ G}$	-299.58
$n = 92.5$	$B = -300 \text{ G}$	-299.11
$n = 95$	$B = -299.78 \text{ G}$	-298.71
$n = 97.5$	$B = -298.5 \text{ G}$	-298.2
$n = 100$	$B = -298.12 \text{ G}$	-297.77
$n = 102.5$	$B = -297.89 \text{ G}$	-297.34
$n = 105$	$B = -297.78 \text{ G}$	-297.69
$n = 107.5$	$B = 297.63 \text{ G}$	-297.39
$n = 110$	$B = -297.52 \text{ G}$	-297.05
$n = 112.5$	$B = -297.48 \text{ G}$	-297.54
$n = 115$	$B = -297.5 \text{ G}$	-297.51
$n = 117.5$	$B = -297.6 \text{ G}$	-297.62
$n = 120$	$B = -297.7 \text{ G}$	-297.64
$n = 122.5$	$B = -298.7 \text{ G}$	-298.8
$n = 125$	$B = -300 \text{ G}$	-300 G
$n = 127.5$	$B = -302.3 \text{ G}$	-302.92
$n = 130$	$B = -306.29 \text{ G}$	-306.19
$n = 132.5$	$B = -313.25 \text{ G}$	-313.84
$n = 135$	$B = -325.2 \text{ G}$	-326.3
$n = 137.5$	$B = -343.49 \text{ G}$	-343.1
$n = 140$	$B = -334.8 \text{ G}$	-337.57
$n = 142.5$	$B = -246.6 \text{ G}$	-248.6
$n = 145$	$B = -176.77 \text{ G}$	173.5
$n = 147.5 \text{ mm}$	$B = -137.08 \text{ G}$	-138.8
$n = 150 \text{ mm}$	$B = -110.1 \text{ G}$	-112 G

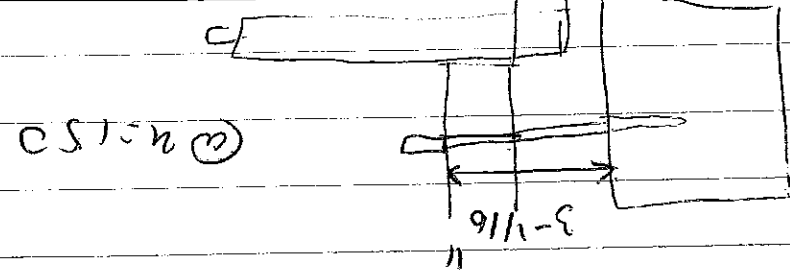
n bars for 150 → 0 (slightly above above pole)
 y fixed at 130



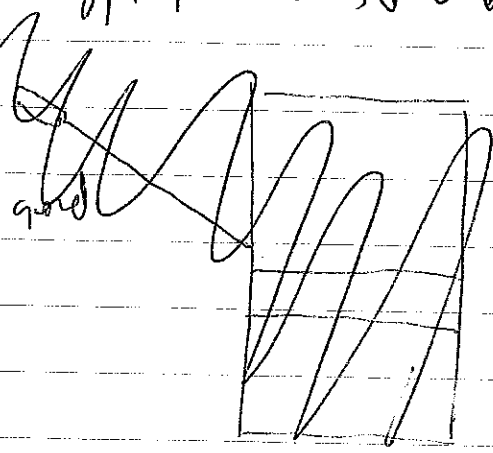
2 = drum ps on. $I=0$. $B=-0.026 G$

3) $q=150$ mm, $B=1.39 G$

4) $q=20 A$, $I=20 A$



Measurements on the left of A $B = 0.16$



~~Measurements on the right of B $B = 0.09$~~
~~Measurements on the left of B $B = 0.09$~~

New Measurement: get to 150 leads
 measurements after 150 leads
 from of the ps @ 6-30-10

② subside

n	B	(edge of n plate)	cut of plate & guide
n = 22.5	B = 1.6	0.4	
n = 30	B = 0.26	0.55	
n = 13.5	B = 0.26	0.64	
n = 15	B = 0.36	0.73	
n = 10	B = 0.36	0.9	
n = 5	B = 0.26	0.62	
n = 0	B = 0.18	0.48	
n = 20	B = 0.26	0.2	
n = 22.5	B = 0.86	0.6	
n = 150 (2 pages from) and			

adjustment of lead

n

n

Cloned 1 after gradual col reduce it

low price using cap. $B = -0.1206$

$n = 107$ $y = 132$, $F = 20.4$, $B = 39.66$ ⁵

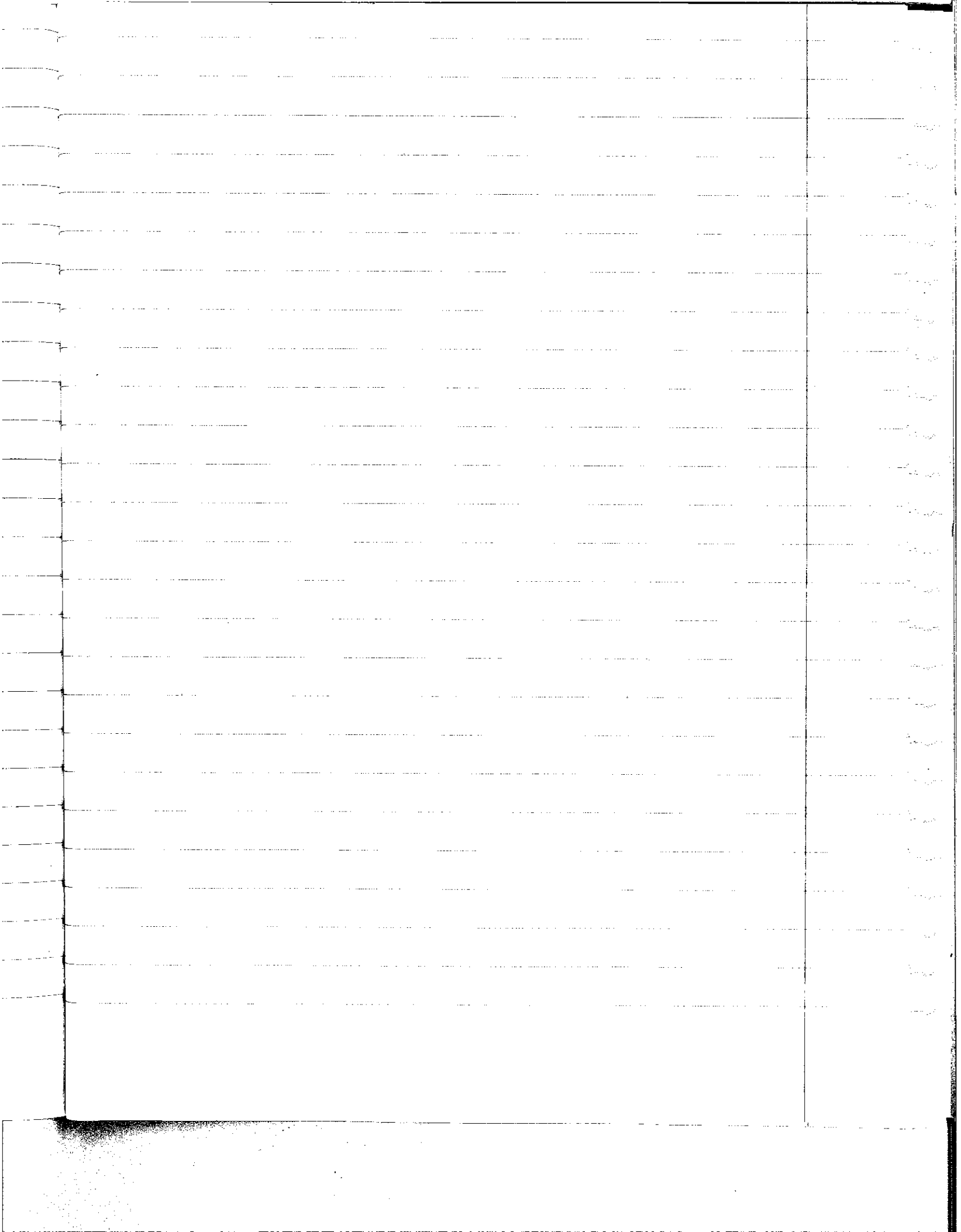
$n = 107$ $y = 140$ $B = 26.526$

Ship after merge

$n = 107$ $y = 152$ $F = 20.4$ $B = 40.19$

$n = 107$ $y = 140$ $F = 20.4$ $B = 26.676$

2 values after merge



Porton 02-29-10.

grad: grad scan Measurement
using 7 lbs mass / actuator.
New part in. do. cross is made of
quartz

George Neil Fel Jlab
@ Jlab.org.

Current five low. , every between 9-11 AM, free
Q. grad. 0 A 729085358-0.

cutting vertically,

Q. grad	1.0 A.	-1
Q. grad.	2.0 A.	-2
Q. grad	3.0 A.	-3
Q. grad	4.0 A.	-4
Q. grad	5. A.	-5
Q. grad	6 A.	-6
Q. grad	7 A	-7
Q. grad	8 A	-8
Q. grad	9 A.	-9
Q. grad	10 A.	-10
Q. grad	11 A	-11
Q. grad	12 A.	-12
Q. grad	13 A	-13
Q. grad	14 A	-14
Q. grad	15 A.	-15

of
+ S
repa

optimal input in FC: input optimal.

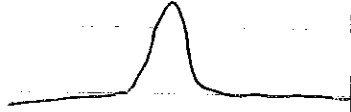
530 P.V.D → 500 ⇒ 1.0610 C.

⇒ 10.6 P.C.

collaboration FC VC. per piece up.

Fu W Hz | 4.955 - 4.986 μ 0 | = 51 m0

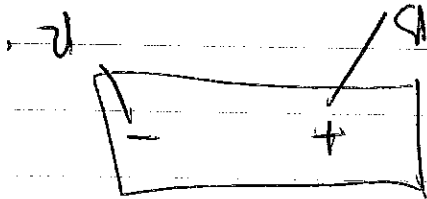
area under peak
 15.5 mV
 530
 PV Δ
 30
 std ~~20~~
 337 mV



RF m. check count & Freqs cup.

RF off.

diff. peak.
 for 1 \rightarrow 20.
 steps of 1 A.



Card Sec 1
 horizontal.

flp pur synth polarization

RF off.

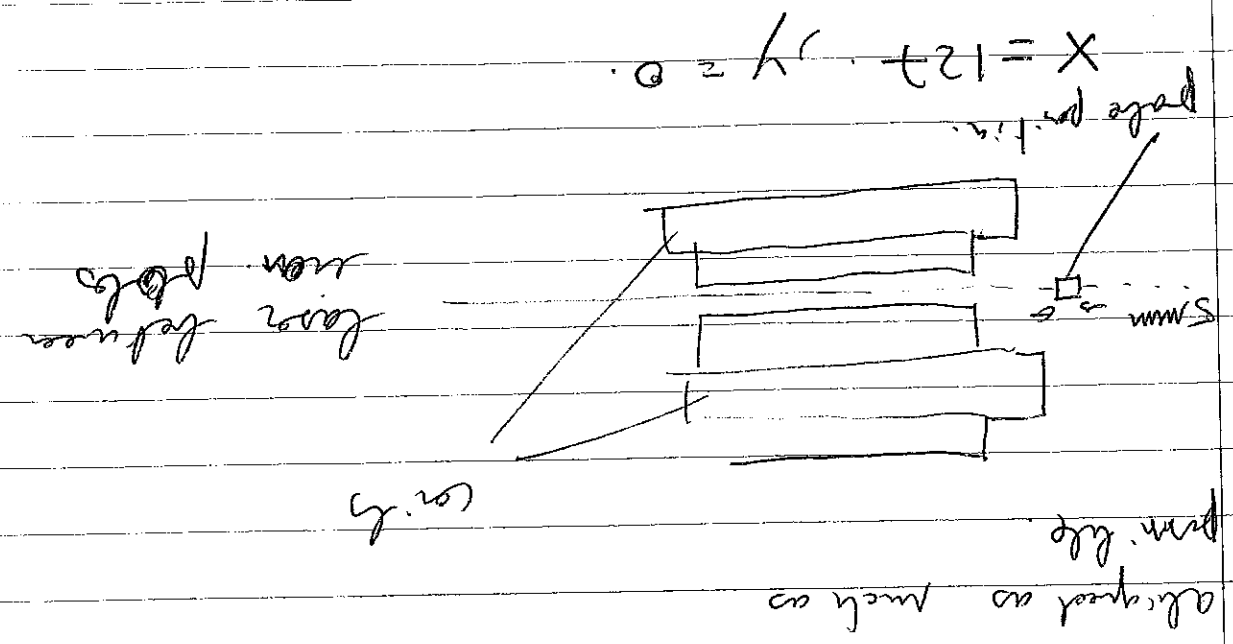
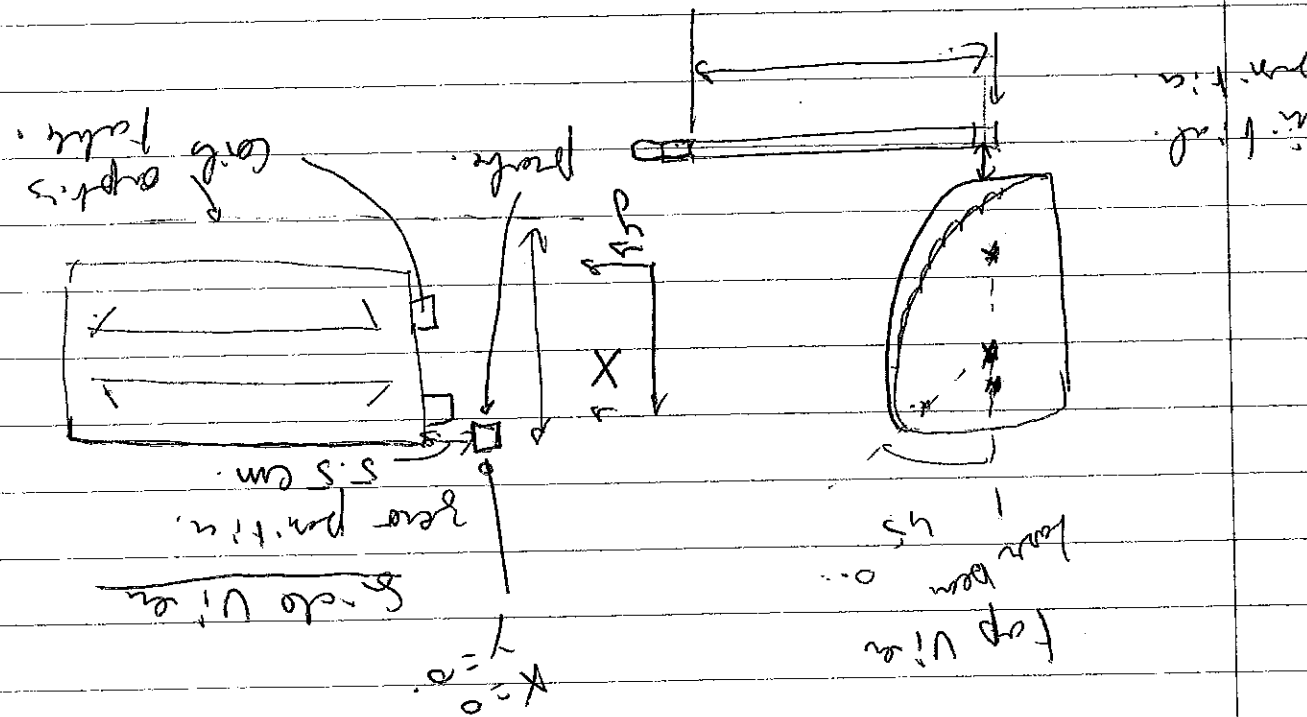
avg. with fibron

16	A	-	16
17	A	-	17
18	A	-	18
19	A	-	19
20	A	-	20

Card Sec 0
 vert. off.

Toy Muth. 079220

10-16-10
 Leading merchant Heat was.
 Mr. He used with LCS (compact.
 merchant)
 He brought & worked for
 a range of 150 mm. i.e. 15 cm



1
2

06-30-10

40	- 48.16	-49
37.5	- 35.08	- 35.88
35	- 23	- 23.79
32.5	- 11.93	- 12.66
30	- 4.20	- 4.97
27.5	- 1.75	- 2.42
25	- 1.88	- 2.56
22.5	- 2.14	- 2.88
20	- 2.24	- 2.93
17.5	- 2.14	- 2.83
15	- 2.05	- 2.72
10	- 1.71	- 2.36
5	- 1.44	- 2.030
0	- 1.25	- 1.8

ge.
date.

①

②

X in mm	First measurement B(G)	Second measurement B(G)
150	-129.33	-130.83
147.5	-158.93	-160.35
145	-147.87	-149.34
142.5	-248.74	-250.22
140	-296.32	-297.8
137.5	-316.47	-317.45
135	-317.05	-318.55
132.5	-313.66	-315.18
130	-310.68	-312.24
127.5	-308.68	-310.22
125	-307.5	-309.05
122.5	-306.8	-308.55
120	-306.41	-307.90
117.5	-306.26	-307.74
115	-306.28	-307.74
112.5	-306.35	-307.84
110	-306.46	-308.01
107.5	-306.52	-308.1
105	-306.66	-308.28
102.5	-306.79	-308.42
100	-307.05	-308.67
97.5	-307.55	-308.97
95	-307.66	-309.23
92.5	-307.91	-309.45
90	-308.22	-309.66
87.5	-308.58	-309.92
85	-308.99	-310.28
82.5	-309.5	-310.75
80	-310.15	-311.31
77.5	-310.99	-312.07
75	-312.31	-313.36
72.5	-314.55	-315.42
70	-317.55	-318.6
67.5	-322.1	-323.14
65	-326.87	-327.96
62.5	-322.7	-323.81
60	-287.26	-288.46
57.5	-228.14	-229.57
55	-179.54	-180.66
52.5	-144.17	-145.22
50	-117.7	-118.71
47.5	-96.11	-97.09
45	-78.08	-79.05
42.5	-62.19	-63.15

157
back
of plate)near
edge of
plate

06-30-10

①

②

stat.

X in mm	First measurement B(G)	Second measurement B(G)
150	-128.13	-129.4
147.5	-157.6	-158.9
145	-196.47	-197.82
142.5	-247.24	-248.71
140	-294.95	-296.3
137.5	-315.14	-316.5
135	-315.73	-317.07
132.5	-312.37	-313.7
130	-309.43	-310.74
127.5	-307.44	-308.74
125	-306.28	-307.57
122.5	-305.57	-306.87
120	-305.26	-306.51
117.5	-305.11	-306.387
115	-305.13	-306.39
112.5	-305.21	-306.46
110	-305.36	-306.6
107.5	-305.46	-306.7
105	-305.65	-306.85
102.5	-305.82	-307.03
100	-306.10	-307.29
97.5	-306.4	-307.58
95	-306.69	-307.84
92.5	-306.97	-308.1
90	-307.29	-308.42
87.5	-307.66	-308.79
85	-308.13	-309.23
82.5	-308.69	-309.77
80	-309.37	-310.4
77.5	-310.22	-311.22
75	-311.55	-312.5
72.5	-313.59	-314.45
70	-316.83	-317.60
67.5	-321.39	-322.14
65	-326.18	-326.95
62.5	-322.	-322.78
60	-286.6	-287.33
57.5	-227.6	-228.21
55	-178.97	-179.54
52.5	-143.59	-144.12
50	-117.16	-117.60
47.5	-95.55	-95.97
45	-77.5	-77.93
42.5	-61.61	-62.03

stat

06-30-10

40	-47.56	-47.95
37.5	-34.5	-34.81
35	-22.46	-22.72
32.5	-11.41	-11.65
30	-3.73	-4.03
27.5	-1.15	-1.54
25	-1.24	-1.71
22.5	-1.57	-2.05
20	-1.63	-2.12
17.5	-1.54	-2.06
15	-1.41	-1.91
10	-1.14	-1.61
5	-0.874	-1.34
0	-0.67	-1.13

← Calibrate at this position $u=0$ after switching off PS.
zero.

1 - $V_B = 0.12$

2 - PS on $I=0$ $D = -0.11$

3 - start $u=150$ measurements in red.