

	A1	A2	A3	A4
Li	$0.40 \leq E_{Li} \leq 0.70$	$0.7 \leq E_{Li} \leq 1.95$	$1.95 \leq E_{Li} \leq 3.15$	3.15 - 13.2
Be	$0.33 \leq E_{Be} \leq 0.56$	$0.56 \leq \leq 2.25$	$2.25 \leq E_{Li} \leq 3.15$	3.15 - 16.3
B	$0.28 \leq E_B \leq 0.47$	$0.47 \leq \leq 2.55$	$2.55 \leq \leq 3.40$	3.4 - 18.5
C	$0.28 \leq E_C \leq 0.45$	$0.45 \leq \leq 3.0$	$3.0 \leq \leq 3.25$?	? — 21.5?
N	$0.25 \leq E_N \leq 0.40$	$0.40 \leq \leq 3.15$	$3.15 \leq \leq 3.80$	3.8 - 23.5
O	$0.225 \leq E_O \leq 0.37$	$0.37 \leq \leq 3.4$	$3.4 \leq \leq 4.0$	3.95 - 25.5
Si	$0.138 \leq E_{Si} \leq 0.229$	$0.229 \leq \leq 3.8$	$3.8 \leq \leq 4.3$	4.35 - 33.5
Fe	$\leq E_{Fe} \leq 0.118$	$0.118 \leq \leq 3.8$	$3.8 \leq \leq 4.3$	4.35 - 34.5 42.5

	A5	A6		
Li	14.2 - 69	71 - 142	21 21	22 22
Be	16.7 - 2140 151.	151. - 202.?	0.225	0.45
B	18.5 - 2140 238.	No.		
C	? 22.5 2140 278.	No		
N	23.5 2140 305.	—		
O	? 25.5 2140 334.	—		
Si	34.5 2140 475.	—		
Fe	42.5 2140 685.	—		

Alphas in Proton Channels

P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
0.104 - 0.168	0.170 - 0.290	0.295 - 1.74	1.74 - 2.15	2.15 - 2.75	285 - 58	60 - 140	—	—	—	—

Energy Ranges of CPME for Normal incidence IMP-7

		$\frac{1}{\Delta E}$	$\frac{1}{GAE}$	MeV/nuc	MeV
P1	0.287 - 0.50	0.245	1.764	A1 0.7160.645 - 1.17	2.58 - 4.68
P2	0.50 - 0.966	0.466	0.806	A2 0.660.17 - 1.74	4.68 - 6.96
P3	0.966 - 1.85	0.854	0.425	A3 0.1471.74 - 4.30	6.96 - 17.2
P4	1.85 - 4.5	2.65	0.142	A4 0.0524.30 - 11.5	17.2 - 46.0
P5	4.5 - 7.9	3.4	0.110	A5 0.21611.5 - 26	46 - 104
P6	7.9 - 13.7	5.8	0.205	A6 0.12026 - 52	104 - 208
P7	13.7 - 25.2	11.5	0.272		
P8	25.2 - 49.5	24.3	0.128		
P9	49.5 - 95		0.070		
P10	95 - 138		0.073		
P11	138 - 500		0.010		

Z1

$$1.37 \leq E_{Li} \leq 1.95$$

$$1.13 \leq E_{Be} \leq 2.25$$

$$0.93 \leq E_B \leq 2.55$$

$$0.59 \leq E_C \leq 3.0$$

$$0.77 \leq E_N \leq 3.15$$

$$0.68 \leq E_O \leq 3.4$$

$$0.42 \leq E_{Si} \leq 3.8$$

$$0.225 \leq E_{Fe} \leq 3.8$$

Nominal (C,N,O)

Z2

$$1.95 \leq E_B \leq 2.55$$

$$1.85 \leq E_C \leq 3.0$$

$$1.59 \leq E_N \leq 3.15$$

$$1.43 \leq E_O \leq 3.4$$

$$0.86 \leq E_{Si} \leq 3.8$$

$$0.43 \leq E_{Fe} \leq 3.8$$

Nominal (C,N,O)

Z3

$$0.77 - 3.2$$

Nominal (Fe)

Z6

$$1.6 - 3.2 \quad 0.235$$

Z1-Z2

$$0.45$$

Z20

$$3.2 - 7.2$$

$$45.58 \text{ rpm} \quad 1 \text{ rev} = 1.31636 \text{ sec}$$

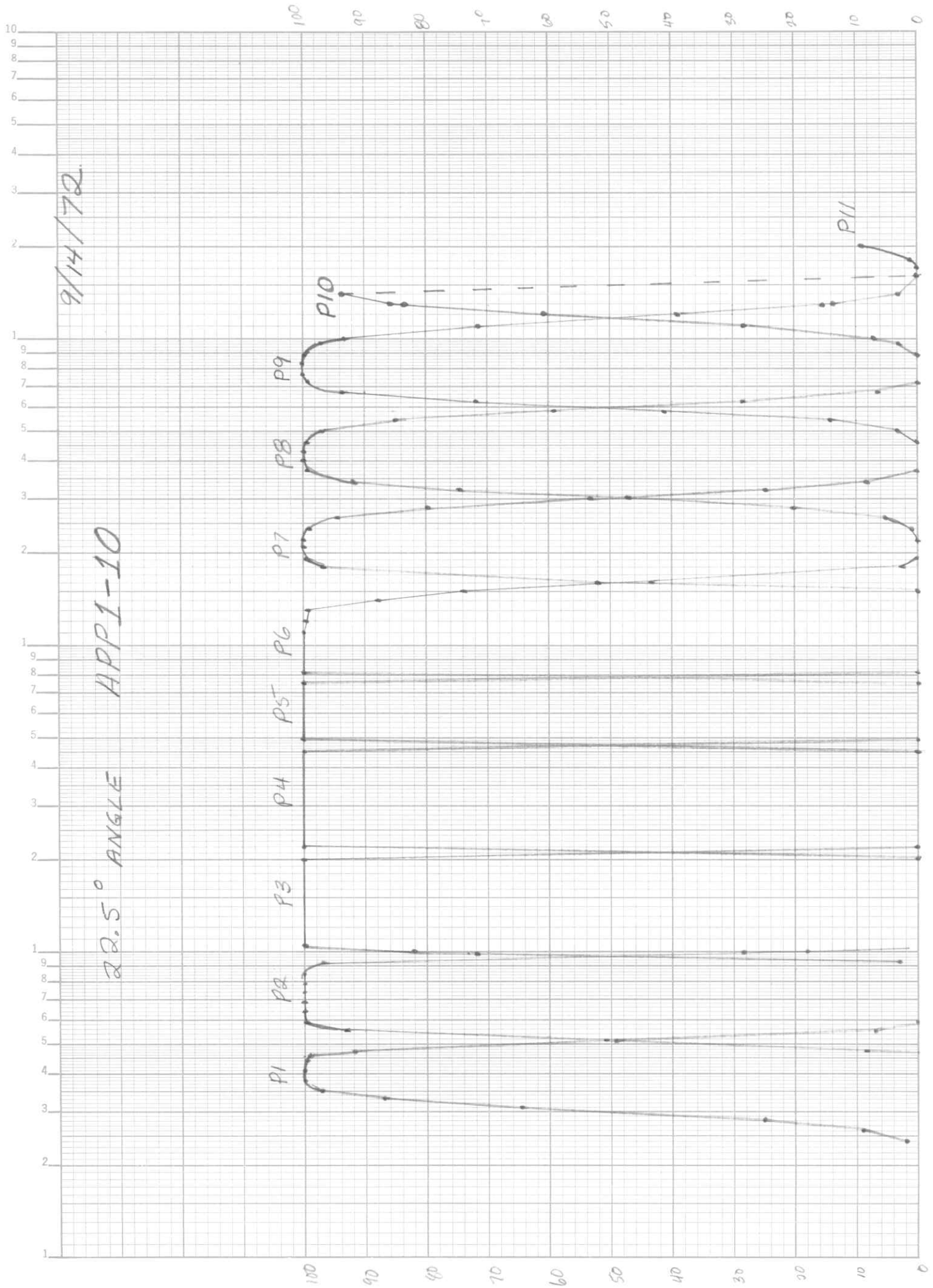
$$3 \text{ spin accum} = 3.949 \text{ sec}$$

$$3 \text{ spin accum} / \frac{1}{2} \text{ sector} = 0.4936$$

$$3 \text{ spin accum} / \frac{1}{32} \text{ sector} = 0.1234 \text{ sec}$$

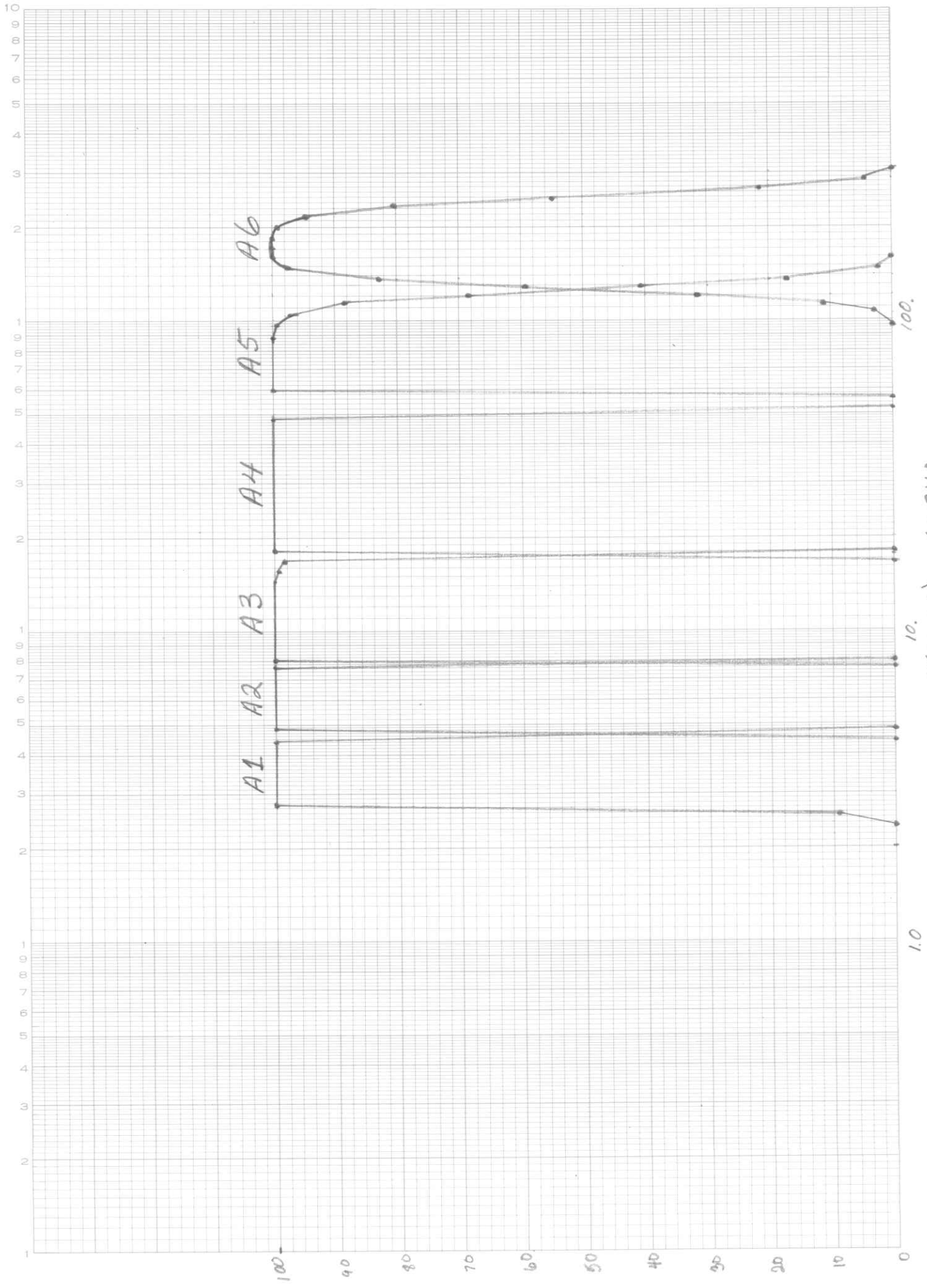
9/14/72.

22.5° ANGLE APPI-10



APP1-10
 EUGENE DIETZEN CO.
 22.5° 1/2 X

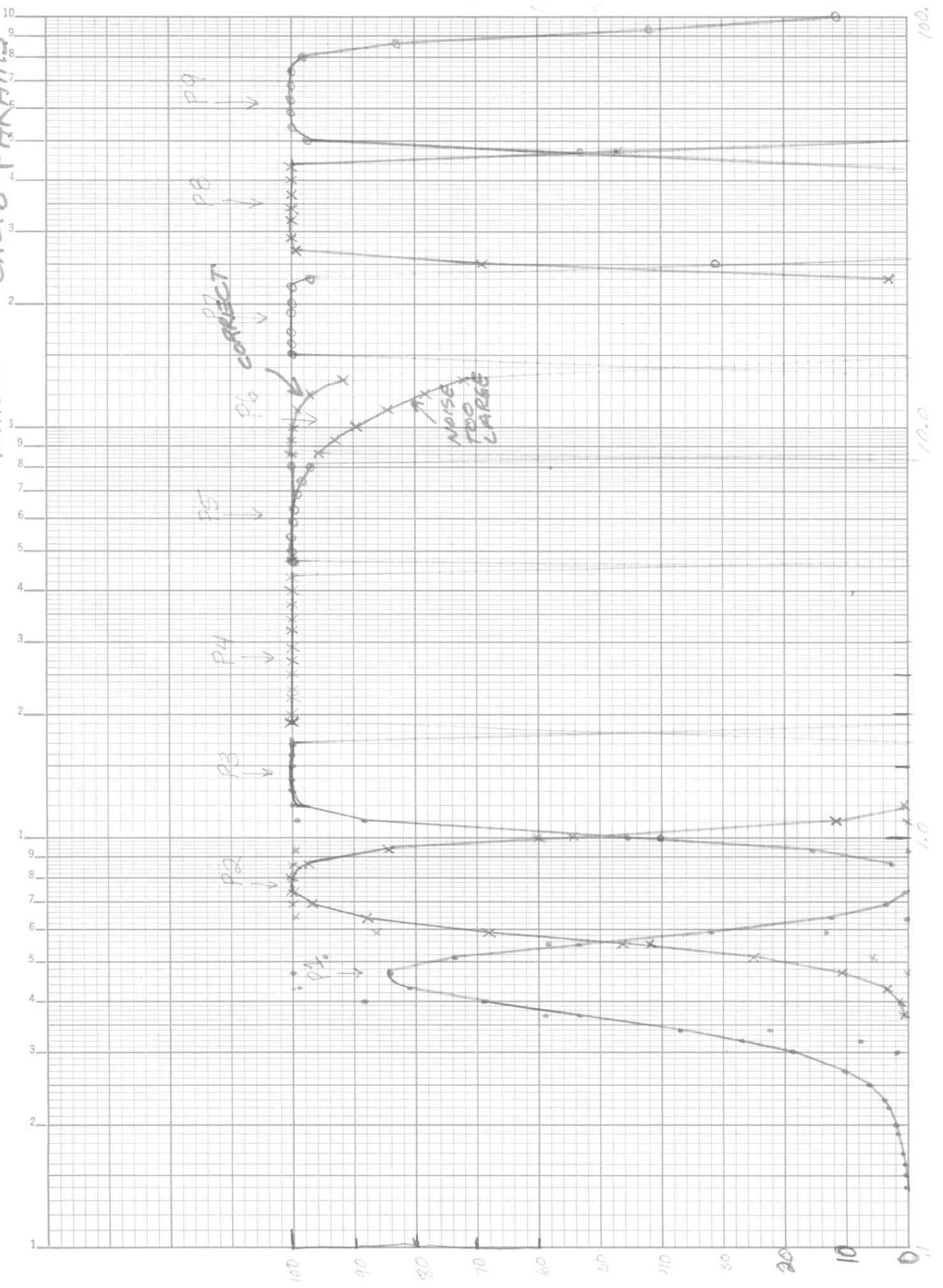
NO. 340-L410 DIETZEN GRAPH PAPER
 SEMI-LOGARITHMIC
 4 CYCLES X 10 DIVISIONS PER INCH



E (MEV) ALPHA

APR 1-11
MARCH 72 CALIB PARAMS

KE SEMI-LOGARITHMIC 46 5490
3 CYCLES X 70 DIVISIONS MADE IN U.S.A.
KEUFFEL & ESSER CO.



100.0
10.0
1.0
0.1