

Pole J5 antenna coupler had two 23/10/63

turns removed from each end of secondary on 16/10/63. Now 146 turns.

| FREQ | Pole J5 | | | Q5 | K5 | P5 | L5 | M5 | N5 | O5 |
|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| M.C. | A | B | C | | | | | | | |
| 1.6 | 160 | 170 | 145 | 70 | 65 | 155 | 210 | 95 | 195 | 105 |
| 1.7 | 155 | 150 | 145 | 40 | 60 | 70 | 100 | 80 | 110 | 75 |
| 1.8 | 210 | 195 | 180 | 35 | 100 | 80 | 150 | 90 | 125 | 80 |
| 1.85 | 300 | 270 | 240 | 40 | 140 | 110 | 220 | 120 | 165 | 100 |
| 1.9 | 365 | 340 | 305 | 50 | 205 | 170 | 320 | 160 | 225 | 150 |
| 1.95 | 410 | 420 | 385 | 65 | 270 | 230 | 420 | 205 | 305 | 195 |
| 2.0 | 405 | 460 | 440 | 80 | 300 | 275 | 475 | 250 | 355 | 235 |
| 2.05 | 400 | 465 | 460 | 85 | 295 | 280 | 465 | 260 | 370 | 245 |
| 2.1 | 405 | 455 | 455 | 80 | 285 | 270 | 445 | 255 | 355 | 245 |
| 2.15 | 465 | 465 | 450 | 85 | 285 | 270 | 405 | 260 | 350 | 240 |
| 2.2 | 400 | 485 | 455 | 105 | 300 | 285 | 385 | 275 | 385 | 250 |
| 2.25 | 270 | 360 | 335 | 85 | 180 | 200 | 240 | 205 | 310 | 165 |
| 2.3 | 190 | 265 | 280 | 45 | 140 | 120 | 165 | 150 | 215 | 110 |
| 2.35 | 130 | 180 | 195 | 25 | 95 | 80 | 130 | 95 | 125 | 80 |
| 2.4 | 100 | 140 | 140 | 25 | 75 | 65 | 120 | 75 | 100 | 65 |
| 2.5 | 95 | 125 | 120 | 25 | 65 | 65 | 115 | 55 | 85 | 65 |
| 2.6 | 80 | 100 | 100 | 20 | 60 | 60 | 105 | 60 | 70 | 60 |
| 2.7 | 65 | 90 | 90 | 20 | 45 | 45 | 85 | 50 | 60 | 50 |
| 2.8 | 60 | 80 | 80 | 20 | 40 | 50 | 80 | 45 | 60 | 45 |

Pri Locking 13 Turns 6 Turns 0

Coupling decreased + generator plus battery on box.
Top of oscillator 34.5" below each screw.

This is only data worth much.

Grid Dip Meter 7.00 6.75 6.2
Pri MC 2.27 2.22 2.13
Detector on L scale

Antenna Oscillator with Faraday screen. Pole JS 2/11/63

| MC | A | B | C | D | E | F | G | H |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1.6 | 10 | 10 | 50 | 35 | 55 | 55 | 65 | 65 |
| 1.7 | 25 | 25 | 115 | 105 | 125 | 125 | 150 | 155 |
| 1.8 | 60 | 60 | 255 | 235 | 250 | 250 | 275 | 280 |
| 1.85 | 95 | 100 | 395 | 345 | 345 | 340 | 385 | 385 |
| 1.90 | 165 | 170 | 545 | 525 | 450 | 460 | 570 | 520 |
| 1.95 | 220 | 245 | 710 | 680 | 580 | 580 | 645 | 635 |
| 2.00 | 275 | 280 | 815 | 785 | 635 | 645 | 705 | 705 |
| 2.05 | 285 | 290 | 840 | 820 | 650 | 655 | 725 | 725 |
| 2.1 | 270 | 285 | 820 | 795 | 620 | 635 | 695 | 710 |
| 2.15 | 245 | 270 | 750 | 735 | 585 | 600 | 630 | 635 |
| 2.2 | 225 | 280 | 680 | 680 | 545 | 555 | 570 | 580 |
| 2.25 | 170 | 290 | 570 | 655 | 455 | 525 | 455 | 525 |
| 2.3 | 145 | 250 | 470 | 515 | 420 | 450 | 420 | 425 |
| 2.35 | 115 | 225 | 400 | 450 | 360 | 415 | 360 | 410 |
| 2.4 | 75 | 125 | 310 | 345 | 290 | 340 | 300 | 330 |
| 2.5 | 50 | 70 | 220 | 235 | 220 | 255 | 235 | 250 |
| 2.6 | 35 | 45 | 175 | 150 | 180 | 195 | 190 | 200 |
| 2.7 | 25 | 30 | 135 | 120 | 145 | 165 | 160 | 170 |
| 2.8 | 20 | 20 | 110 | 90 | 125 | 140 | 140 | 140 |
| Scale | M | M | M | M | H | H | H | H |

A. Dynamotor + Batteries on box. Top of tester $34\frac{1}{2}$ " below c/screw

B. Dynamotor on car same "

Spurious dip at 2.195 to 270 peak at 2.24 to 295

dip at 2.29 to 240, peak at 2.31 to 260

C. Dynamotor + batteries on box. Top of tester $28\frac{1}{4}$ " below c/screw

D. Dynamotor on car same " "

D. Dip at 2.29 to 500, peak at 2.31 to 520

E. Dynamotor + batteries on box. Top of tester 22" below c/screw.

F. Dynamotor on car " same

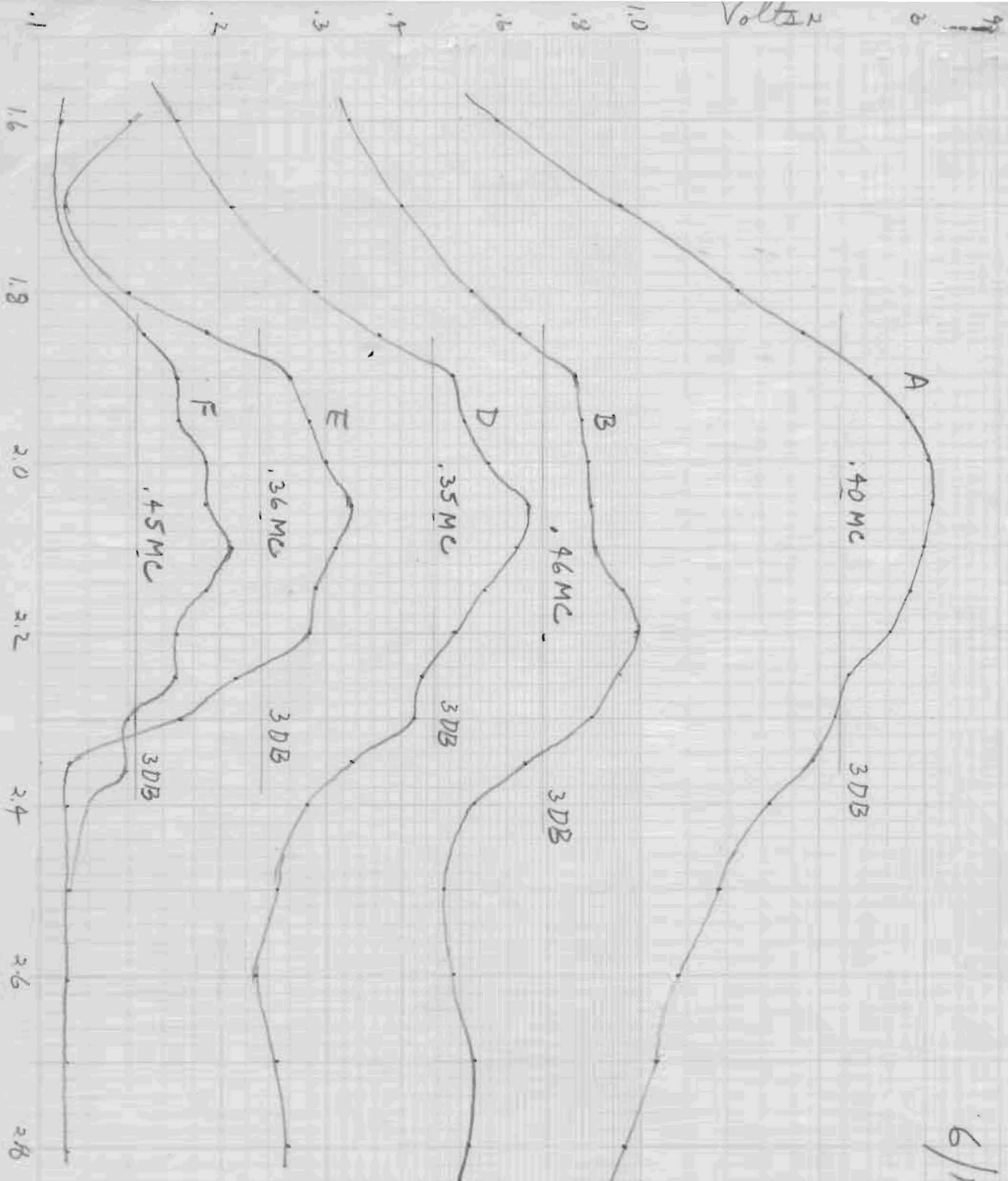
Dip at 2.29 to 420 peak at 2.31 465

G. Dynamotor + batteries on box Top of tester $15\frac{1}{2}$ " below c/screw

H. Dynamotor on car. Same

H. Dip at 2.29 to 405 peak at 2.31 to 435

Volts



Megacycles

6/11/63

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| Frequency Mc | Volts Output | | | | | |
|-----------------|--------------|-----|------|-----|-----|-----|
| | A | B | C | D | E | F |
| 1.6 | .58 | .33 | .11 | .17 | .14 | .11 |
| 1.7 | .93 | .40 | .16 | .21 | .11 | .11 |
| 1.8 | 1.96 | .52 | .26 | .29 | .14 | .14 |
| 1.85 | 1.90 | .63 | .35 | .37 | .19 | .14 |
| 1.9 | 2.46 | .78 | .48 | .49 | .26 | .17 |
| 1.95 | 2.84 | .80 | .52 | .51 | .28 | .17 |
| 2.0 | 3.08 | .82 | .59 | .56 | .30 | .19 |
| 2.05 | 3.10 | .83 | .69 | .65 | .33 | .19 |
| 2.1 | 3.00 | .84 | .66 | .62 | .31 | .21 |
| 2.15 | 2.82 | .94 | .56 | .53 | .29 | .19 |
| 2.2 | 2.61 | .99 | .48 | .49 | .28 | .17 |
| 2.25 | 2.22 | .93 | .43 | .43 | .21 | .17 |
| 2.3 | 2.12 | .83 | .40 | .42 | .17 | .14 |
| 2.35 | 1.97 | .64 | .31 | .33 | .11 | .14 |
| 2.4 | 1.64 | .53 | .26 | .28 | .11 | .11 |
| 2.5 | 1.38 | .47 | .21 | .25 | .11 | .11 |
| 2.6 | 1.18 | .49 | .35? | .23 | .11 | .11 |
| 2.7 | 1.08 | .53 | .16 | .25 | .11 | .11 |
| 2.8 | .93 | .52 | .21 | .26 | .11 | .11 |

6/11/63

Top of Oscillator box $15\frac{3}{4}$ below cooch screw,

Oscillator on pole JS

Detector scale High, Medium, Low (H, M, L)

| MC | A | B | C | D | E | F | Detector Position |
|------------|-----|-----|-----|-----|----|----|--|
| 1.6 | 50 | 50 | 10 | 15 | 10 | 5 | JS = Antenna Coupler T = East half of line J at Truss |
| 1.7 | 130 | 65 | 15 | 25 | 5 | 5 | |
| 1.8 | 260 | 100 | 25 | 50 | 10 | 10 | |
| 1.85 | 365 | 140 | 35 | 90 | 20 | 10 | EL = Output of East Low Trans. on N/S lines |
| 1.9 | 520 | 220 | 50 | 185 | 40 | 15 | |
| 1.95 | 630 | 230 | 55 | 195 | 45 | 15 | EH = Output of East High Trans. on N/S Lines |
| 2.0 | 695 | 240 | 65 | 265 | 50 | 20 | |
| 2.05 | 700 | 245 | 80 | 370 | 65 | 20 | ML = Output of Middle Low Trans. on N/S Lines. |
| 2.1 | 675 | 250 | 75 | 330 | 55 | 25 | |
| 2.15 | 625 | 310 | 60 | 225 | 50 | 20 | EL, EH + ML Transformers on south half of system. |
| 2.2 | 565 | 335 | 50 | 185 | 45 | 15 | |
| 2.25 | 450 | 300 | 45 | 125 | 25 | 15 | |
| 2.3 | 425 | 245 | 40 | 120 | 15 | 10 | |
| 2.35 | 385 | 145 | 30 | 65 | 5 | 10 | |
| 2.4 | 300 | 105 | 25 | 45 | 5 | 5 | |
| 2.5 | 240 | 85 | 20 | 35 | 5 | 5 | |
| 2.6 | 190 | 90 | 35? | 30 | 5 | 5 | |
| 2.7 | 155 | 105 | 15 | 35 | 5 | 5 | |
| 2.8 | 130 | 100 | 20 | 40 | 5 | 5 | |
| Scale | H | M | H | L | L | L | } Detector |
| Position | JS | T | EL | EL | EH | ML | |
| Oscillator | JS | JS | JS | JS | JS | JS | |