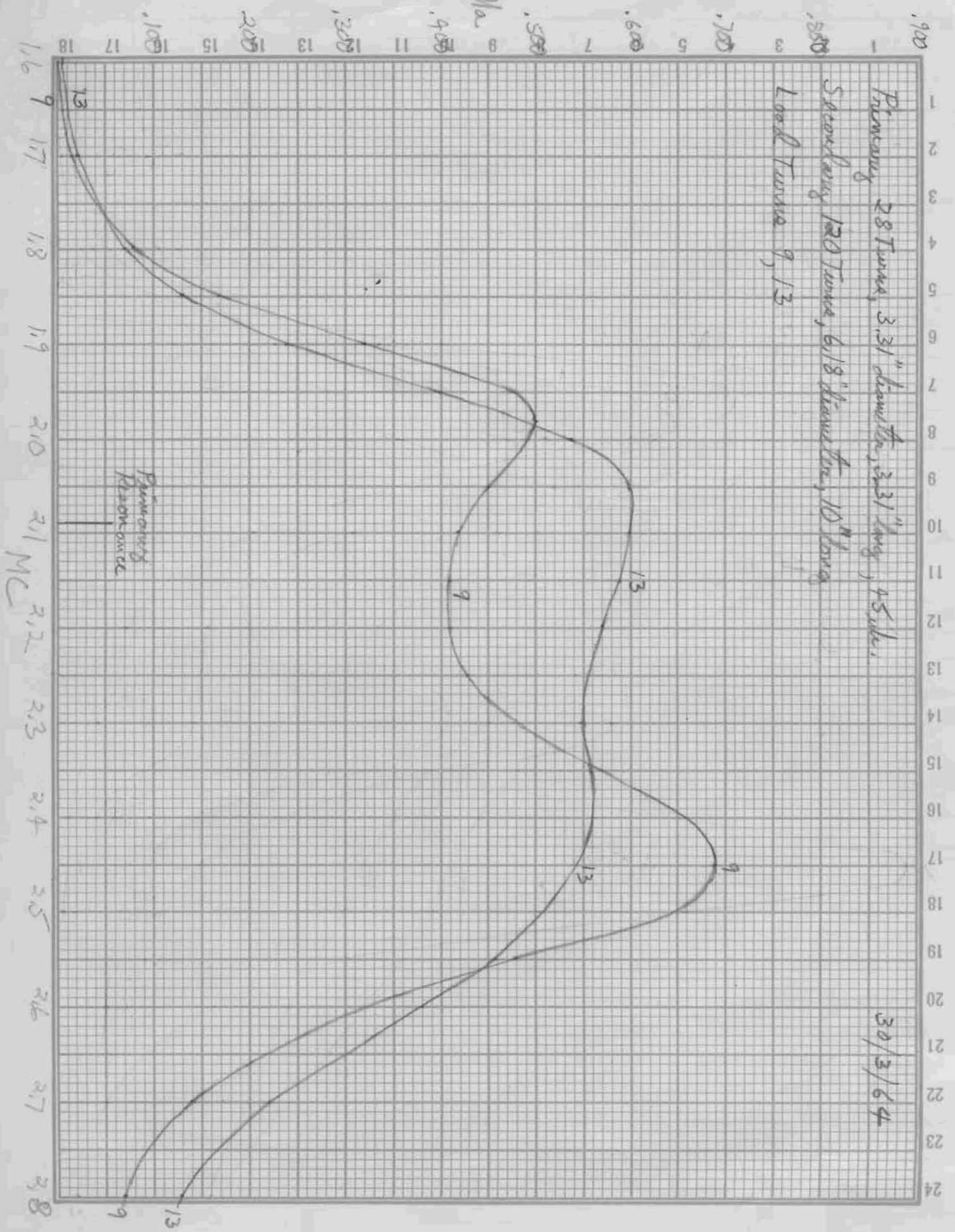


Primary 28 Turns, 3.31" diameter, 3.31" long, 45 lbs.
 Secondary 120 Turns, 6/8" diameter, 10" long
 Load Turns 9, 13

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Primary Resistance



Antenna Coupler, 8DB attenuator 30/3/64

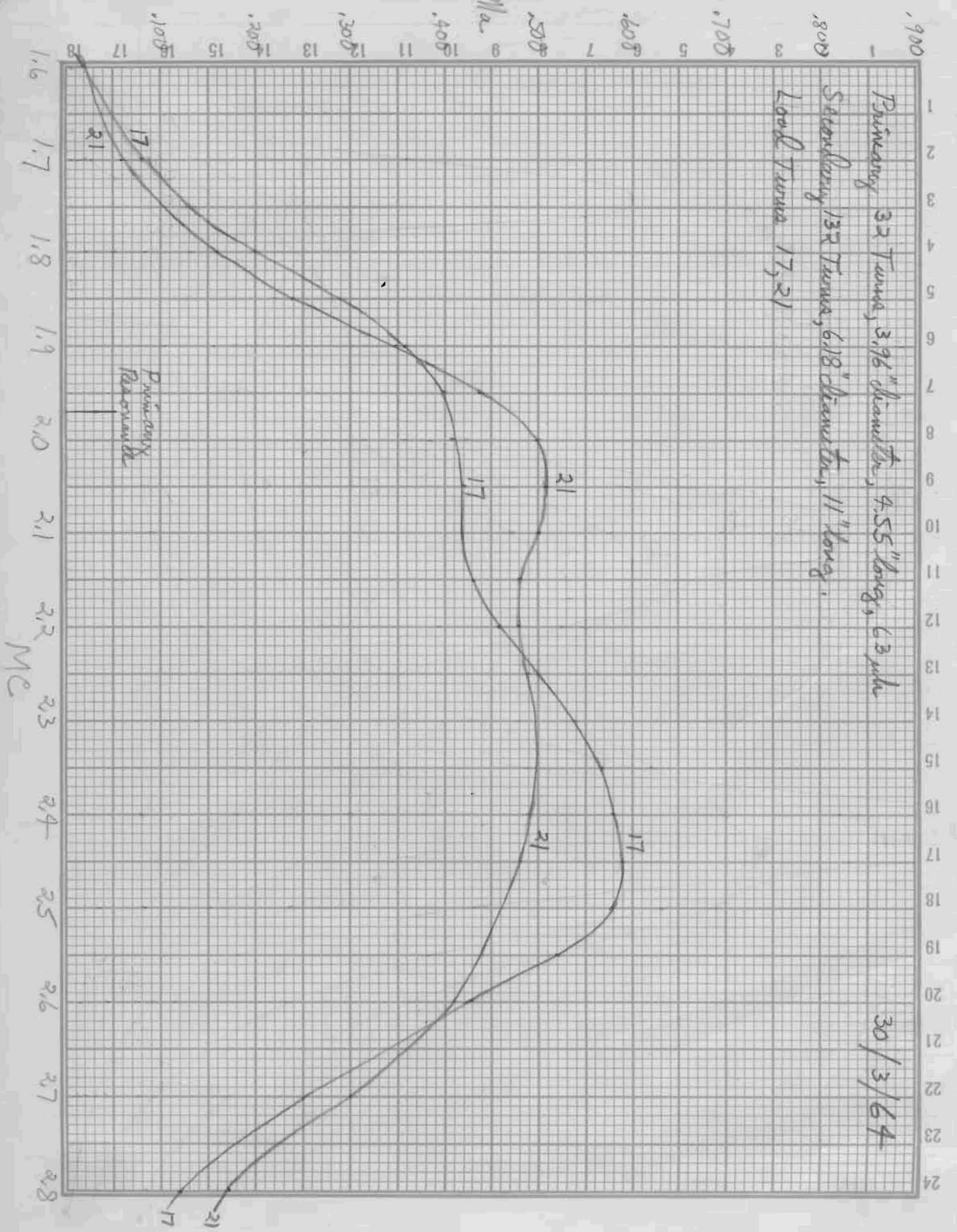
Secondary: 6.18" diameter, 120 turns, 12 tpi, 10" long.
 Wire 0.051 diameter, .0833" centers, 0.032" gap.

Primary: 3.31" diameter, 28 turns, 8.45 tpi, 3.31" long.
 Wire 0.057" diameter, 0.118 centers, 0.061" gap.

Load Turns	5	9	13	17	21		
MC	Output via 5 volt scale						
1.6	0	0	5	5	0		
1.7	5	15	20	15	10		
1.8	40	80	70	50	40		
1.85	150	170	130	100	70		
1.9	400	320	290	160	120		
1.95	⁴⁷³ 480	⁵³⁰ 480	450	280	220		
2.0	300	^{1.98} 490	540	470	360		
2.05	240	450	600	610	520		
2.1	200	420	600	700	700		
2.15	190	410	590	700	^{2.13} 750		
2.2	200	410	570	640	660		
2.25	230	430	560	570	540		
2.3	290	480	550	520	450		
2.35	410	570	560	480	390		
2.4	650	660	560	440	350		
2.45	890	690	540	410	320		
2.5	660	650	520	390	300		
2.55	300	480	460	360	270		
2.6	160	320	380	320	240		
2.7	50	140	220	240	200		
2.8	20	70	130	170	160		

Primary 32 Turns, 3.96" diameter, 4.55" long, 63 mil
 Secondary 132 Turns, 6.18" diameter, 11" long.
 Load Turns 17, 21

30/3/64



Antenna Coupler, 8 DB Attenuator 30/3/64

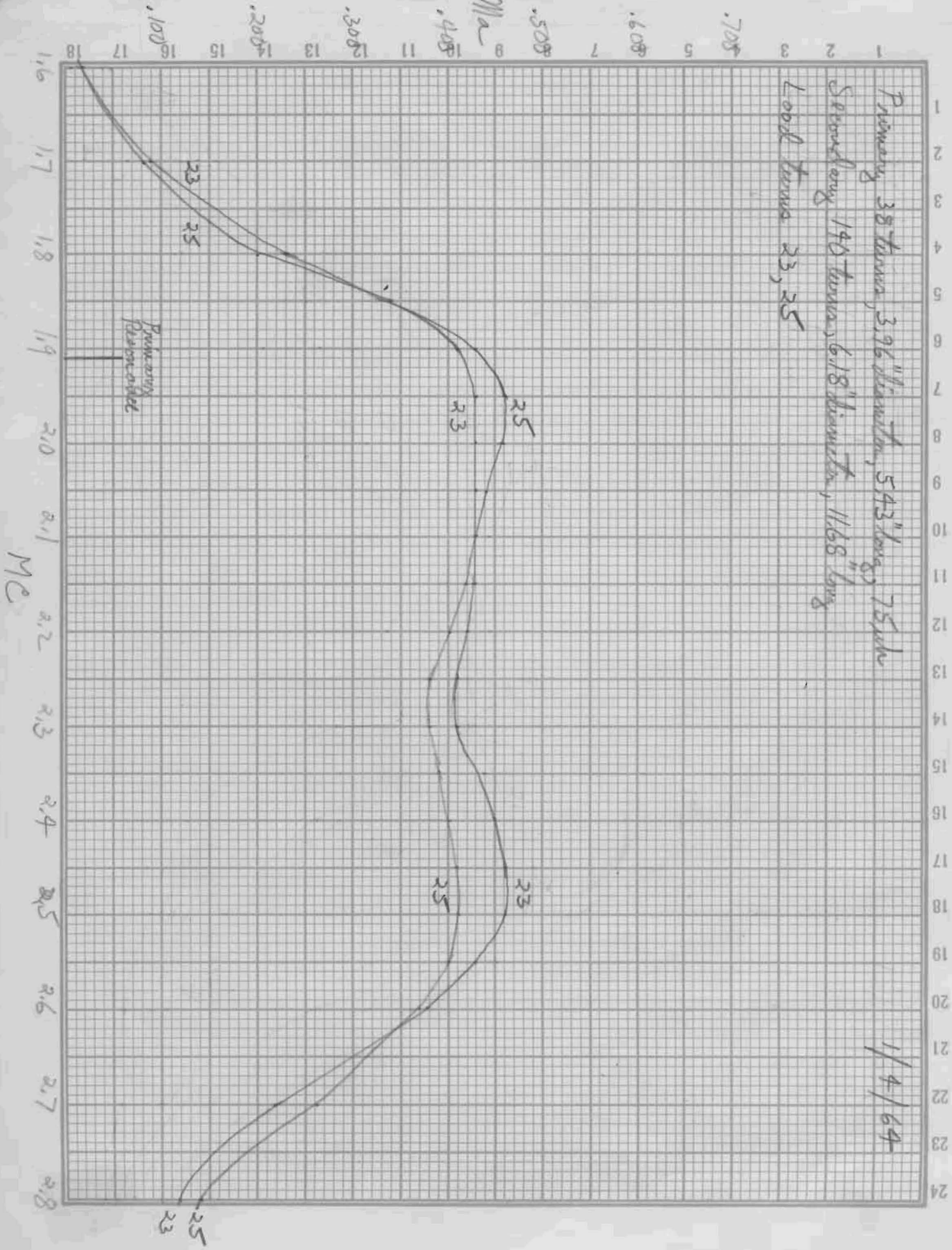
Secondary: 6.18" diameter, 132 turns, 12 tpi, 11" long.
 Wire 0.057" diameter, 0.0833" centers, 0.032" gap.

Primary: 3.96" diameter, 32 turns, 7 tpi, 4.55" long
 Wire 0.081" diameter, 0.143" centers, 0.062" gap.

Load Turns	5	9	13	17	21		
MC	Output ma, 5 volt scale						
1.6	5	20	20	20	20		
1.7	360	140	100	80	60		
1.8	^{1.74} 200 ⁶⁰⁰	^{1.78} 250 ³⁶⁰	240	200	160		
1.85	130	220	280	290	240		
1.9	100	200	300	360	350		
1.95	80	180	300	400	440		
2.0	80	180	300	410	500		
2.05	80	190	300	420	510		
2.1	90	200	320	420	500		
2.15	120	230	340	430	480		
2.2	140	270	380	460	480		
2.25	180	340	440	500	490		
2.3	280	430	530	540	500		
2.35	490	600	620	570	500		
2.4	1160?	820	700	580	490		
2.45	^{2.42} 1000 ^{1300?}	^{2.43} 830 ⁸⁷⁰	720	590	480		
2.5	430	630	690	580	460		
2.55	180	380	510	520	440		
2.6	90	230	360	430	410		
2.7	30	90	170	250	300		
2.8	5	30	180	120	170		

Primary 38 turns, 3.96" diameter, 5.43" long, 75 psi
 Secondary 140 turns, 6.18" diameter, 11.68" long
 Load turns 23, 25

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MC

Antenna Coupler, 8DB Attenuator,

1/4/64

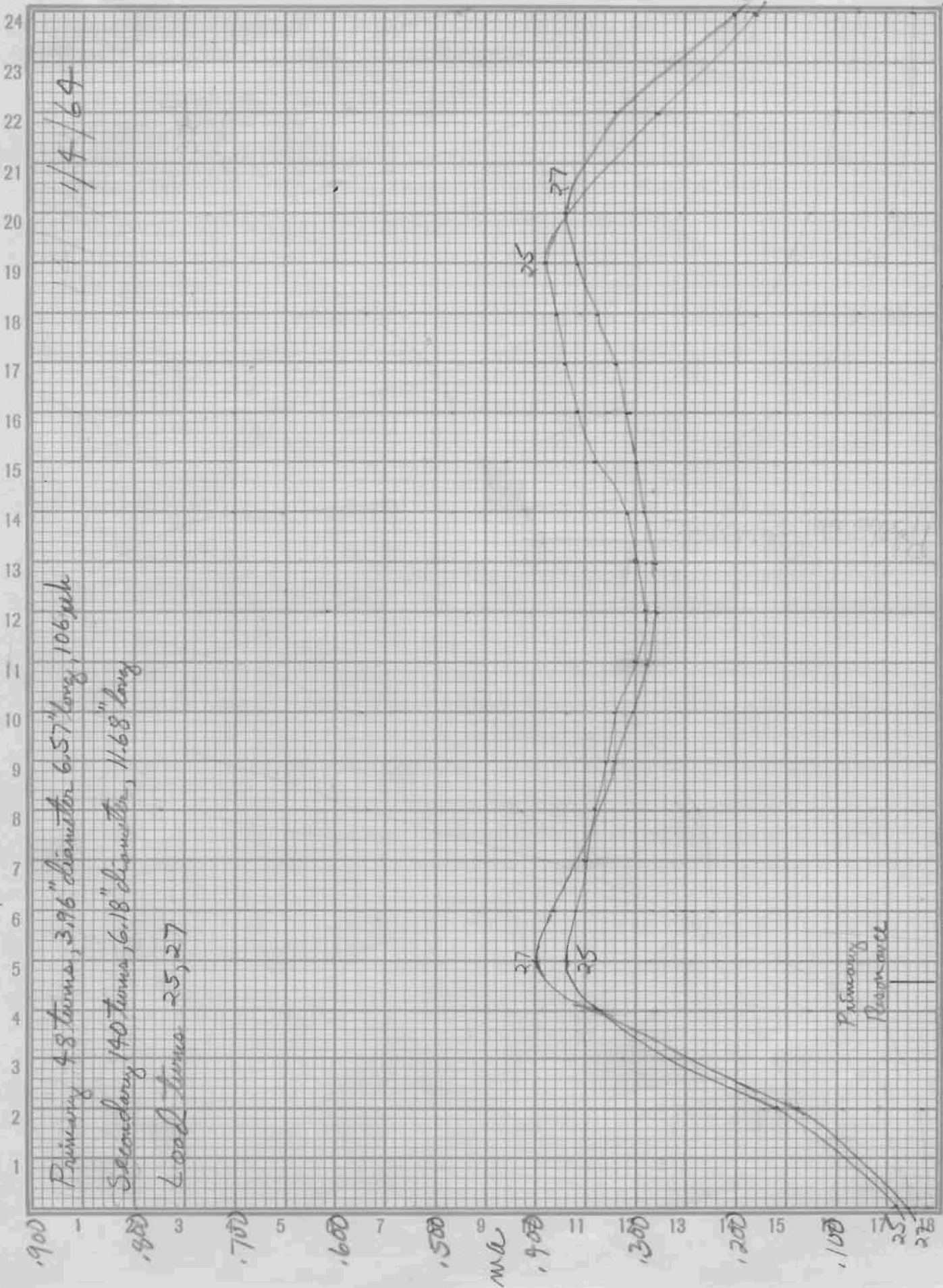
Secondary: 6.18" diameter, 140 turns, 12 tpi 11.68" long
 Wire 0.051 diameter, 0.0833" centers, 0.032 gap.

Primary: 3.96" diameter, 38 turns, 7 tpi, 5.43" long
 Wire 0.081" diameter, 0.143" centers, 0.062" gap.

Load Turns	13	15	17	21	21	23	25
MC	Output μ a, 5 volt scale						
1.6	50	40	30	20	30	20	20
1.7	160	140	120	90	100	90	80
1.8	220	230	240	230	250	230	200
1.85	230	250	290	330	350	340	340
1.9	230	260	300	380	380	410	430
1.95	230	270	320	400	410	430	460
2.0	250	290	330	410	410	430	460
2.05	280	320	350	420	420	430	440
2.1	320	360	390	430	440	430	430
2.15	360	400	420	440	440	430	420
2.2	390	410	420	420	430	420	400
2.25	480	440	460	420	430	410	380
2.3	590	520	500	430	440	410	380
2.35	680	610	560	450	490	440	390
2.4	700	650	590	470	510	450	400
2.45	610	620	580	490	520	460	410
2.5	480	530	540	480	510	460	410
2.55	320	400	420	450	460	430	400
2.6	220	260	320	360	380	380	370
2.7	100	120	150	200	210	220	260
2.8	40	50	70	100	100	120	140

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Primary 48 turns, 3.96" diameter, 6.57" long, 106 µk
 Secondary 140 turns, 6.18" diameter, 11.68" long
 Load turns 25, 27



1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8

Primary Pressure

1.900
 1.800
 1.700
 1.600
 1.500
 mL
 1.400
 1.300
 1.200
 1.100
 1.000
 0.900
 0.800
 0.700
 0.600
 0.500
 0.400
 0.300
 0.200
 0.100
 0

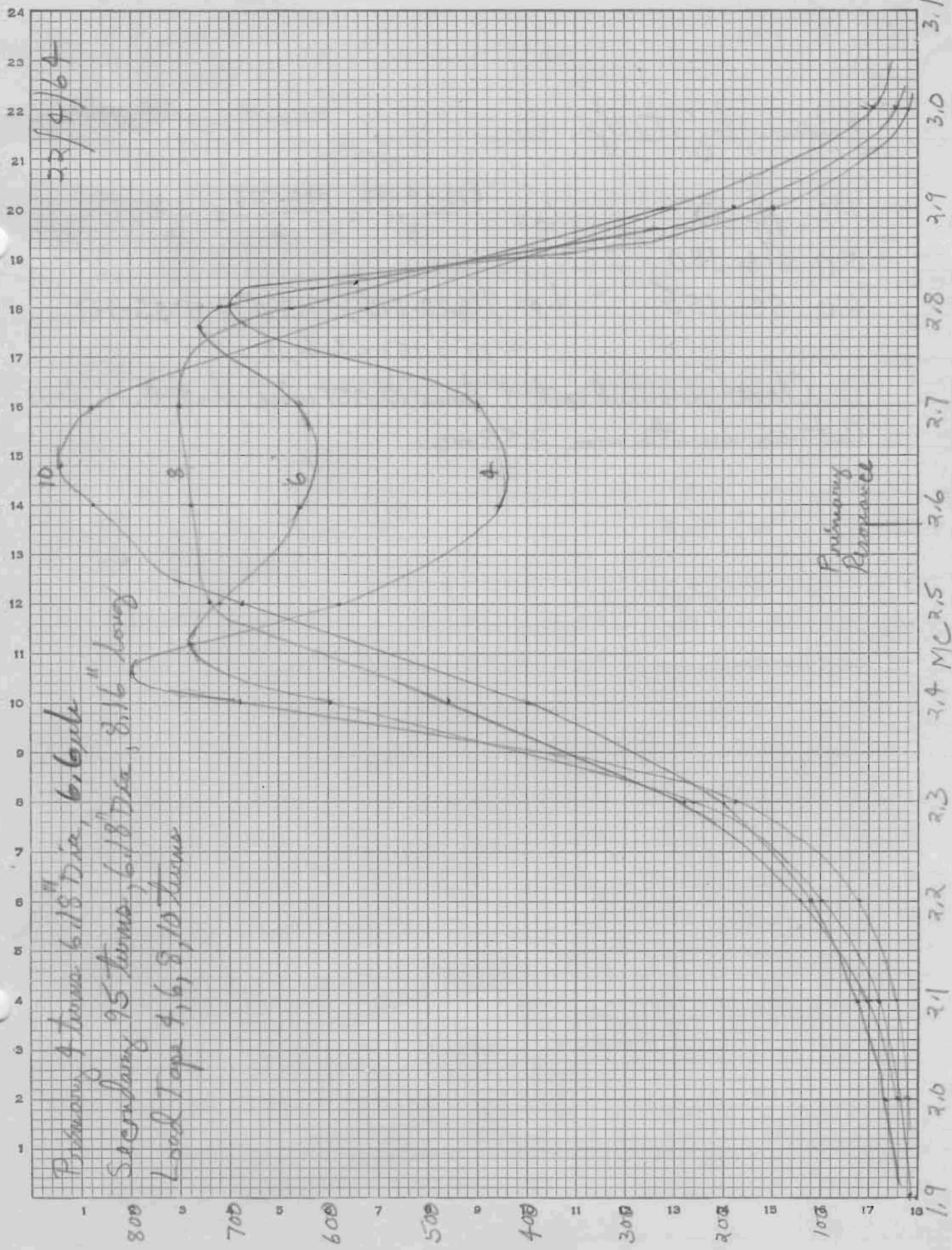
1/4/64

Antenna Coupler, 8DB Attenuator

Secondary: 6.18" diameter, 140 turns, 12 tpi, 11.68" long
 Wire 0.051" diameter, 0.0833" centers, 0.032" gap.

Primary: 3.96" diameter, 48 turns, tpi, 6.57" long
 Wire 0.081" diameter, 0.143" centers, 0.062" gap.

Load Turns MC	13	15	17	21	25	27.
	Output μ a, 5 volt scale					
1.6	100	80	70	60	40	30
1.7	180	190	190	180	160	140
1.8	170	200	240	300	340	340
1.85	170	200	250	310	370	400
1.9	180	210	250	310	360	380
1.95	200	230	260	320	350	350
2.0	260	300	330	350	340	340
2.05	250	280	310	350	330	320
2.1	290	300	310	320	320	300
2.15	340	340	340	320	300	290
2.2	420	390	370	330	290	280
2.25	500	460	420	350	300	280
2.3	590	520	480	380	310	290
2.35	680	580	540	420	340	300
2.4	620	600	550	440	360	310
2.45	530	540	530	460	370	320
2.5	420	450	480	460	380	340
2.55	300	330	380	430	390	360
2.6	200	260	300	370	370	370
2.7	120	140	170	230	280	320
2.8	60	70	90	130	180	200



Primary by itself.

MC pf Q

3.0 414 180

6.0 94 155

$$C_0 = \frac{414 - 4 \cdot 94}{3} = \frac{414 - 376}{3} = \frac{38}{3} = 12.7 \mu\text{f}$$

$$L_0 = \frac{1}{(6.28 \cdot 3 \cdot 10^6)^2 \cdot 427 \cdot 10^{-12}} = \frac{1}{355.427} \\ = 10^{-6} / .152 = 6.6 \mu\text{h}$$

Close wound coil 4 turns 0.051 wire about 0.16" long.
Antenna resonates near 2.58 mc

22/4/64

MC	Output ma, Svolt scale				Hour 2, run length				
1.8	0	0	0	0	0	0	0	0	0
1.9	0	10	10	10	0	0	0	0	0
2.0	10	20	30	20	0	0	0	0	0
2.1	20	40	60	50	0	0	0	0	0
2.2	60	100	110	120	0	0	0	0	0
2.3	190	230	200	240	0	0	0	0	0
2.4	690	600	400	480	0	0	0	0	0
(2.43)	800(6.4)	740							
2.5	590	710	690	720	0	0	0	0	0
2.6	430	630	840	740	0	0	0	0	0
2.7	450	(2.64) 630	870	750	0	0	0	0	0
	(2.75) 730								
2.8	700	710	560	640	0	0	0	0	0
2.9	150	190	250	260	0	0	0	0	0
3.0	10	20	50	40	0	0	0	0	0
3.1	0	0	10	0	0	0	0	0	0
3.2	0	0	0	0	0	0	0	0	0
Load Torque	4	6	10	8					
Slc. Torque	95	95	95	95					

Primary 62 turns, 5.3" long, 1.67" dia, 44 yds
 Secondary 124 turns, 10.3" long, 6.18" dia
 Load Taps 5, 7, 9 turns
 8 DB alternator

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