

FIELD INTENSITY MEASUREMENTS

UNDERTAKEN FOR 2KO. NEWCASTLE

10-15th. of 6-40

2KO. OPERATING FREQUENCY - 1410 K.C.

AERIAL 1/4 VERTICAL RADIATOR. - 52 OHMS IMPEDANCE

AERIAL CURRENT = 52 OHMS IMPEDANCE

POWER = 510 WATTS.

NEWCASTLE AND SUBURBS

10-6-40

LOCATION	S.K.O. Miles	S.C.K.		S.H.D.		S.H.R.		
		Field	Miles	Field	Miles	Field	Miles	
ASH ISLAND	1	150 mvvm	17	1.5 mvvm				
WILLIAMSTOWN	8	22 "	24	1. " 8	23 mvvm			
DITTO. EAST	7.5	23.5 "	25	1. " "				
NTH. STOCKTON	5	35 "	22	1.1 "				
GARDEN SUBURB	5.75	22.5 "	22	.74 "	5.5	25 "	24 2 mvvm	
NELSON'S BAY	11.5	10.6 "			11.5	12 "	27 1.5 "	
BAR BEACH	7	16.4 "	22	.38 "	6.5	15.4 "	25 2 "	
GRAVEL PIT	6.5	12 "	19	.5 "			23 1.75 "	
NEW LBTH. L.O.	5	14 "						
SPIERS PT.	9	10 "	15	.8 "			21 1.9 "	
BARNSLEY	8	7.5 "						
WALLSEND	6	22 "	15	.51 "			19.5 2.2 "	
BMGHM. GARDN.	2.5	52 "	16	.85 "			19.5 2.5 "	
BELMONT	14	2.1 "	19	.8 "		3 "	26 1.5 "	
<u>STROUD RADIAL</u>								
RAY. TERR. RD.	4	18 mvvm					17 3.1 "	
WMSTN. TURN OFF	5.5	3.1 "			6	3.15 "	18	
NTH. RAY. TERR.	8.5	3.45 "			9	3.5 "	18 3 "	
FERRODALE 1.	10.5	2.8 "					20 2.1 "	
" 2.	13	2.1 "					21 2.3 "	
EWYDALE	15.5	.95 "			16	1.4 "	23 2 "	
CLARENCE TN.T.O	20.5	.51 "			21	.39 "		
DEEP CREEK	25	.3 "						
DOUBLE "	28	.16 "						
STROUD	35	.145 "	2 N.C.		35	.19 "	37 .32 "	
DUNGOG TURN OFF	37	.12 "	35	.53	37	.15 "		
<u>GRESFORD RADIAL</u>								
MAITLAND RD.	7	11.8 mvvm			7.5	12.5 mvvm	12 5.3 "	
VACY	23	2.5 "			24	2.9 "		
FISHER'S HILL	28	2.2 "			27			
GRESFORD	32	1.1 "			33			
ST.MARY'S BDGE	36	.51 "			37	1.15 "		
<u>CESSNOCK RADIAL</u>								
PELAW MAIN	12.5	2.6 mvvm			12.5	3.2 mvvm		
CESSNOCK	19.25	1.4 "			19.25	1.65 "		
BELLBIRD	21.5	1.2 "			21.5			
MILLFIELD	26.5	.33 "			26.5	.52 "		

HUNTER RIVER RADIAL

LOCATION	S.K.O.		S.C.K.		S.H.D.		S.H.R.	
	Miles	Field	Miles	Field	Miles	Field	Miles	Field
MAITLAND RD.	7	11.8 mvvm			7.5	12.5 mvvm	12	5.3 mvvm
MAITLAND	12	5.3 "	9.25	5.9 mvvm	12.5	7 "	7	10.06 "
LOCHINVAR	19	2 "	8	5.2 "			1	96 "
BRANXTON	25	1.3 "	12	2.5 "	25.5	1.9 "	6.5	10 "
BELFORD	27	1.15 "	13	2.6 "	27.5	1.35 "	8.5	8 "
SINGLETON	37	.5 "			37.5	.57 "	18	3.7 "
RAVENSWORTH	47	.36 "			47.5	.5 "		
ANTHENNE	54	.39 "			54.5	.53 "		
MUSWELLBROOK	67	.2 "			67.5	.35 "	45	1.05 "
ABERDEEN	74	.082 "			74.5	.12 "	53	.57 "
<u>GOSFORD RADIAL</u>								
GRAVEL PIT	6.5	12.3 mvvm	19	.65 mvvm			23.5	1.9 mvvm
BELMONT	12	2.1 "	21	.8 "	11.5	3 mvvm	28	1.6 "
SWANSEA	18	1.8 "	24	.64 "	17.5	2.4 "	30	1.05 "
C.HILL BAY RD.	22	.42 "	26	.25 "	21.5	.57 "	34	.48 "
WYONG	34	.4 "	32	.16 "	33.5	.5 "	42	.19 "
GOSFORD	44	.12 "			43.5	.18 "	50	.085 "

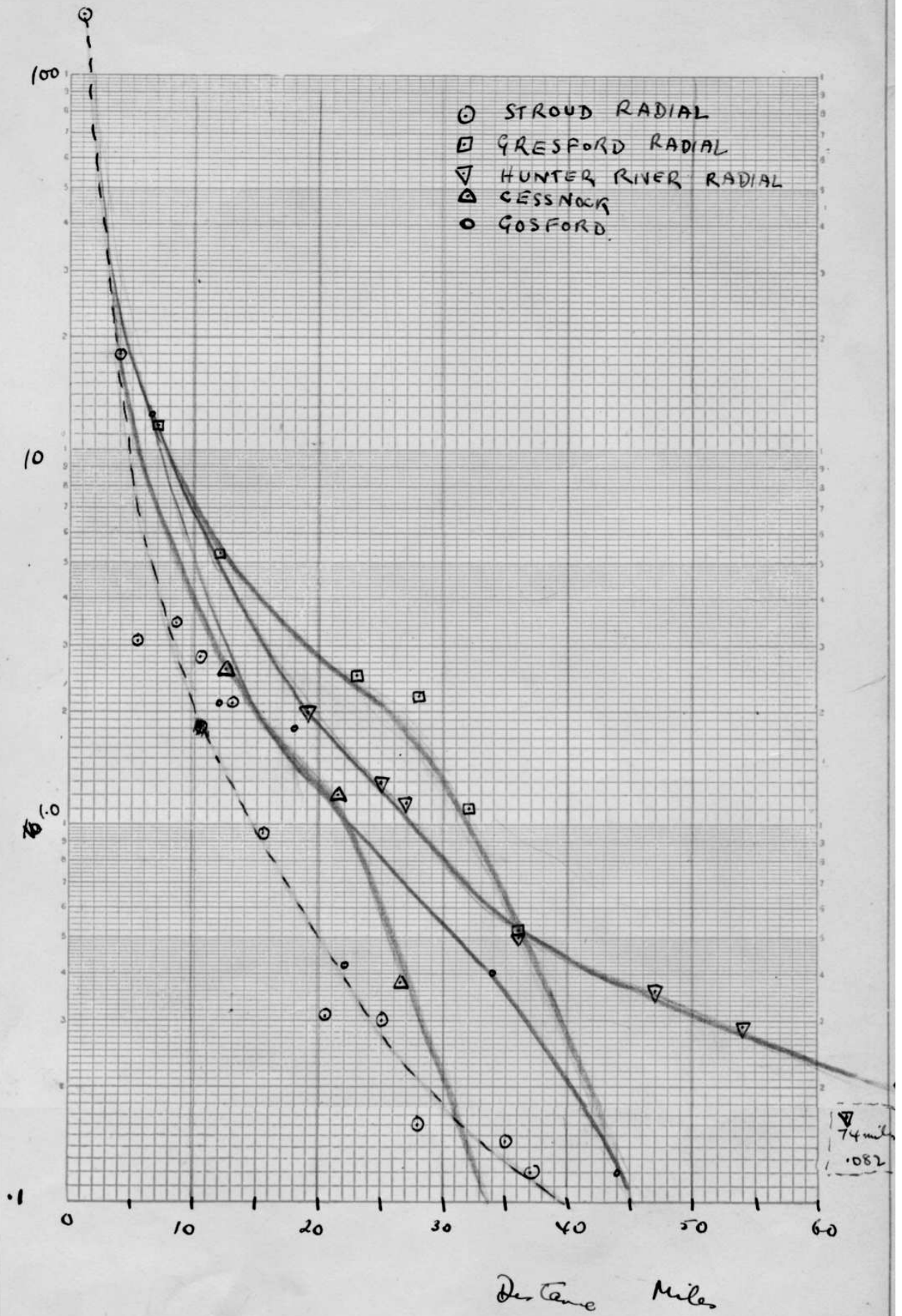
HARMONIC RADIATION.

Field at 1 K.M. from S K.O. on 1410 K.C. = 225 mvvm

" " " " " " 2820 " = 15 micro v.

GROUND ATTENUATION

PORT STEVENS RADIAL	=	.3 x 10 <sup>-12</sup>
STROUD RADIAL	=	.5 x 10 <sup>-14</sup>
GRESFORD RADIAL	=	.25 x 10 <sup>-13</sup>
HUNTER RIVER RADIAL	=	10 <sup>-13</sup>
CESSNOCK RADIAL	=	10 <sup>-14</sup> to .3 x 10 <sup>-14</sup>
GOSFORD RADIAL	=	10 <sup>-14</sup> " .4 x 10 <sup>-14</sup>



▽ 74 miles  
0.082

AMALGAMATED WIRELESS  
(AUSTRALASIA) LTD., SYDNEY

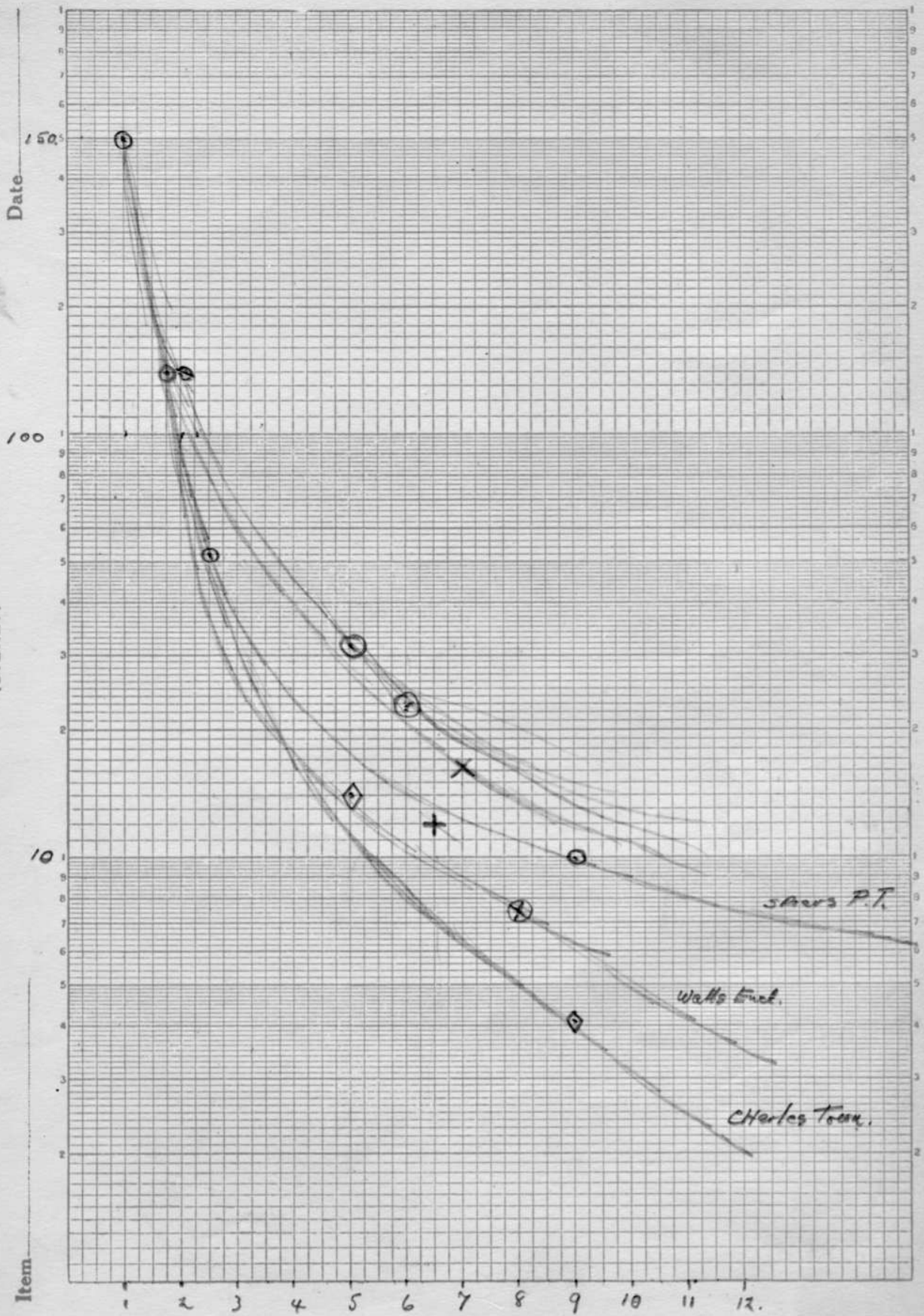
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# Amalgamated Wireless (Australia) Ltd.

Test No. \_\_\_\_\_

Item \_\_\_\_\_

(SYDNEY)



**Amalgamated Wireless**  
**(Australasia) Ltd.**



Test No. \_\_\_\_\_

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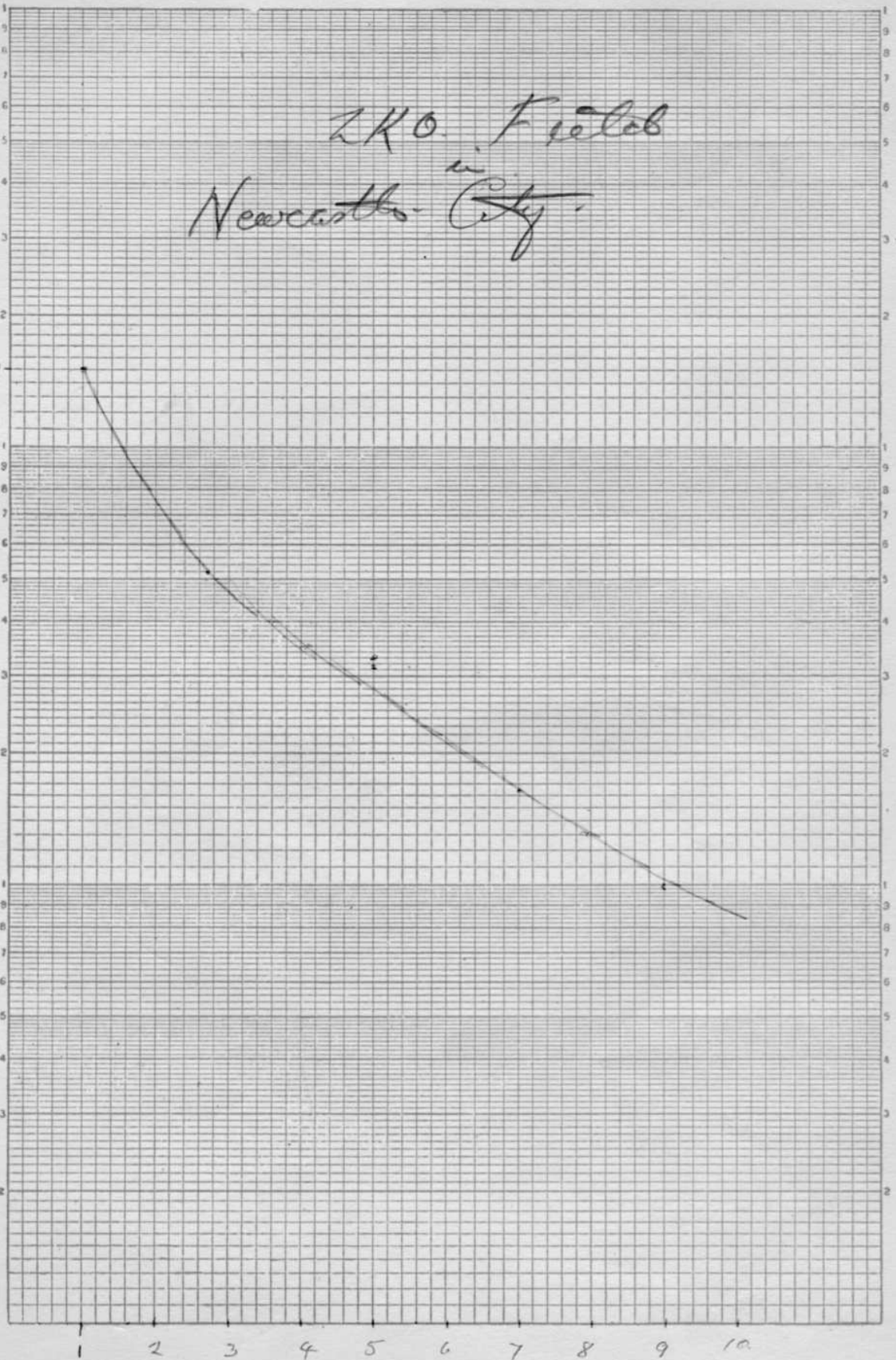
(SYDNEY)

kw.

Date \_\_\_\_\_

ZKO. Field  
Newcastle City.

150



Miles