

27 Feb 61

Crossed Clyde and examined to west of it. The ground is quite flat for 0.35 miles to an old mill creek. Then land rises slowly for another 0.30 miles. Thereafter it rises quite rapidly. The west line, ^(E/W reference) extended meets the mill creek just north-west of a large willow tree which is between a ford to NW and an unused bridge to SE.

~~The required extended length of west line is four units of 440 feet = 1760 feet. This is slightly less than the 0.35 mile available. Thus the entire west arm will fall on the flat land between Clyde river and mill creek.~~

24 March 61

Distance to west by Terry survey $13 \times 440 + 220 = 5940 \text{ ft.}$

Distance to east	8 Feb = 617 yds = 1851 ft	} average 1930 ft
	6 Feb = 652 yds = 1956 ft	
	27 Jan = 660 yds = 1980 ft.	

Available distance east of Clyde on Dennistown 7870 ft.

Beyond Clyde to west.

By 27 Feb	0.35 mi =	1850 ft	} average 2300 ft.
By 8 Feb	736 yds =	2208 ft	
By 5 Jan	951 yds	2853 ft	

Total available width in valley E/W 10170

O road E/W diameter = $17 \times 440 = 7480 \text{ ft}$
so it will easily fit on Dennistown

If start at west to end peg on far west end by Clyde, the
center will be $8\frac{1}{2}$ lengths of 440 to east of this west to end peg.
 $(13\frac{1}{2} - 2 - 8\frac{1}{2}) = 3$ units of 440 to west of center of Mr. Terry.
 The east end of initial construction will be $(4\frac{1}{2} - 3) = 1\frac{1}{2}$ units of 440
 to east of center of Mr. Terry.

25 March 61

a second time

If array is extended to twice length in a N/S direction, it will go $\frac{16 \times 220}{3} = 1175$ yds below south boundary on to Archers property. There appears to be enough room for this.

The center of initial array will be $\frac{16 \times 220}{3} = 1175$ yds north of south boundary.

The initial array will go north from center $\frac{8 \times 220}{3} = 588$ yds

The twice size array will go north another 587 yds.

The twice size array will go north from south boundary 2350 yds.

If array is extended a second time to twice length in N/S direction, it will go another 1175 yds.

Maximum length required on Demerston 3525 yds.

This is about 100 yds more than available, so the last couple of lines at north end will need to be omitted.

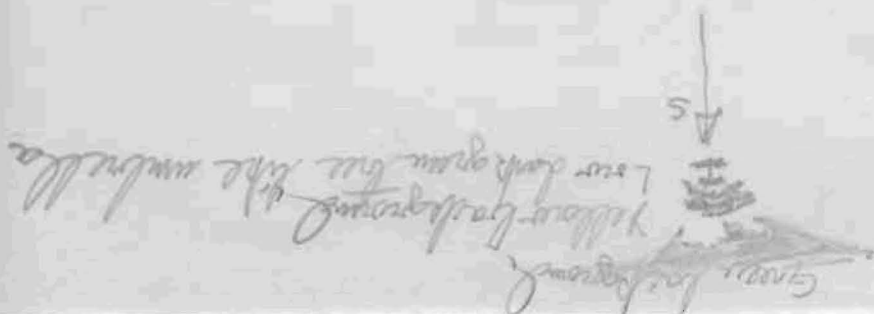
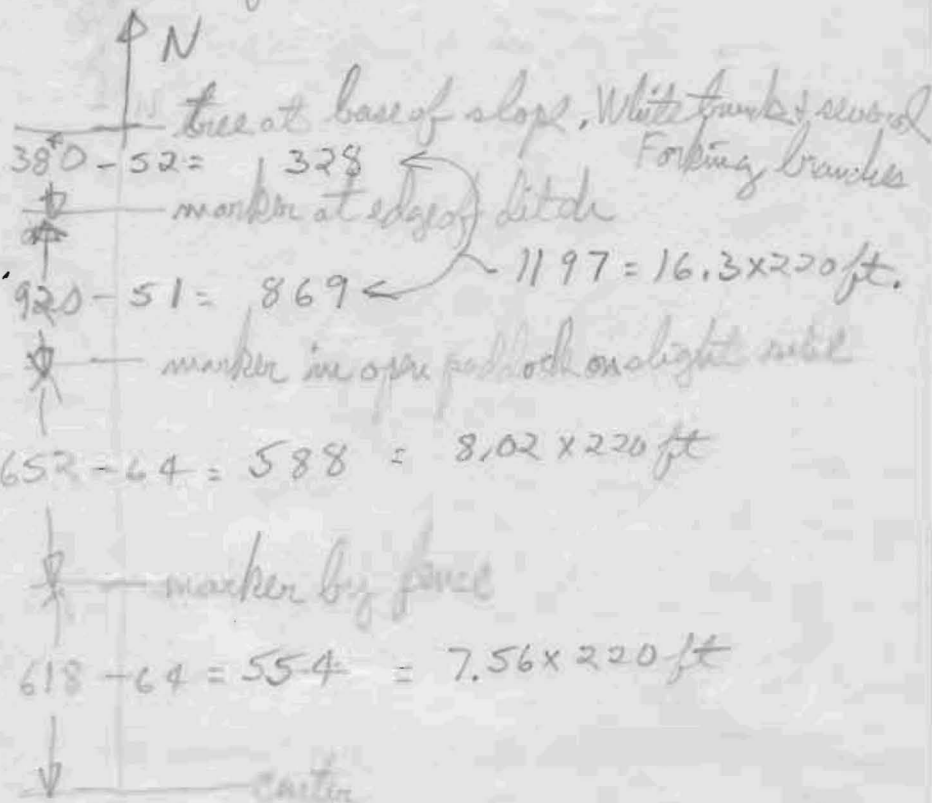
The array should be kept as far east as possible so that north end will fall into the U shaped flat in hills to north. Since south boundary slants south of east, this will also allow array to be moved south a bit.

30 March 61

New Center

Compass 13° E of N

apparently the array
may be doubled twice
in direction to north.



3rd April 61 3470

JWS 623351

Back	Intermediate	Fore	Rise	Fall	Reduced	Distance	Location
	0.32 mile = 1690ft						
	$575 \times \frac{33}{12} = \frac{1580}{ft}$						
	$\frac{1580}{ft} \approx 13770$						
	1635 ft average.						
	South boundary of Demistown						
	$5 \times 440 + 151' 3'' =$						
	below last peg on W. line which is 550' below E/W reference						
	$3300 + 9'' \text{ below E/W reference}$						
	at center						
	Chisle river 575 paces or 0.32 mile below south boundary at West line						
	$\frac{2200}{550}$						
	$2901.3''$						
	$\frac{2200}{151.25} =$						
	$2351.25 + 550 + 440 = 3341.25 \text{ ft. } \textcircled{A}$						
	$= 3300.75 + 440 = 3740.75 \text{ ft } \textcircled{B}$						
	Feet south of center of array.						