

155

The Distance of fifteen Statute Miles South of the Southernmost Part of Phila:  
I shall transmit You in order that they may be laid before His Ldp. sundry Queries,  
the Consideration of which will I conceive point out to such Mathematicians as  
may be consulted the Difficulties which we expect to meet with in the Course of  
our Work -- as it is of the greatest Consequence that in fixing the Spot from which  
the North Boundary is to be run we come not beyond a Point that may be found  
to lie at the exact Distance of 15 Statute Miles (horizontally measured) South  
from the Southernmost part of Phila: that in Running such North Boundary  
or East & West Line we do not by any means suffer it to deviate or decline to-  
wards the South, I hope the greatest Attention will be paid to the Questions rela-  
tive to those Matters & that the Mathematicians will in their Answers be as full  
& explicit as they possibly can; so that None of us may be in doubt about their Mean-  
ing. You will observe that among the Rest is one Query to this Effect viz: What is  
a due East & West Line? is a Parallel of Latitude such a Line? or will any Line  
that makes an Angle with a Parallel of Latitude be a due East & West Line?  
Which Question You'll be pleased to observe I do not ask as if I was myself  
in Doubt; nor do I think any of His Lordship's Commissioners are in doubt con-  
cerning it; but as a Hint was dropt by one of the Pennsylvania Commissioners  
that They were not satisfied about the Intention of their Constituents with respect  
to that Matter I thought it my Duty to write to His Ldp. concerning it & to point  
out to Him the Detriment he will suffer in case His Ldp. & the Proprietors of Pennsylv-  
ania were to agree (which Agreement They may possibly endeavour to make) that the  
East & West Line which is to be our Northern Boundary should be run in the same  
manner as was that from Fenwick's Island, which Line the Chancellor I perceive  
hath determined to be a due East & West Line notwithstanding I think any Mathe-  
matician that should be told after what Method it was run (to wit by Lines set  
off at right Angles with a Meridian & ranged in a Line) would pronounce that an  
Error had been committed & that the Line instead of describing a Segment of a  
Parallel of Latitude or being a due East & West Line is really the Segment of  
a Great Circle continually deviating from its Point of Beginning towards the