

MAP READING

Determine Polar Coordinates

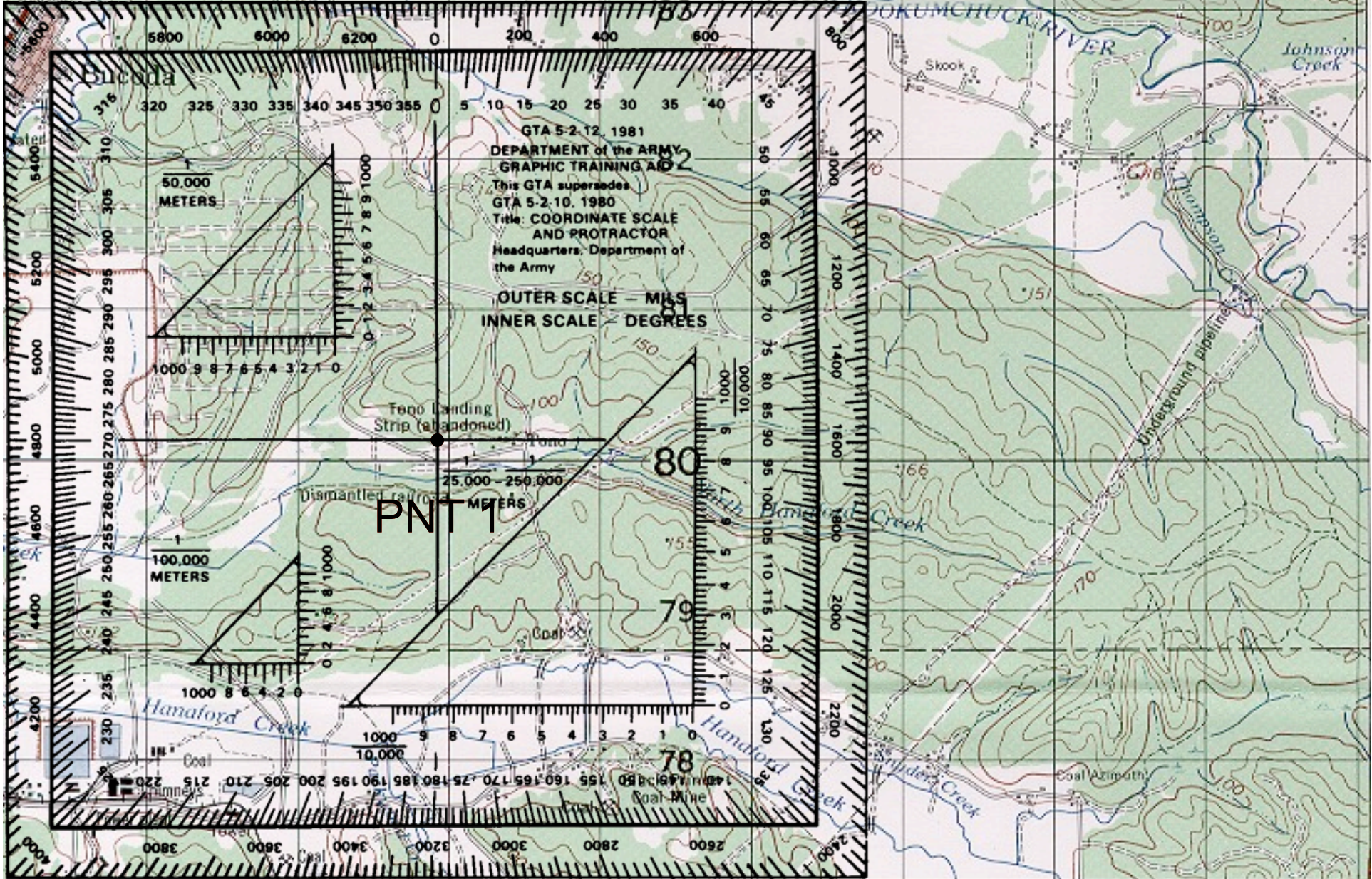
Polar Coordinates

Plot Azimuth from a known point.

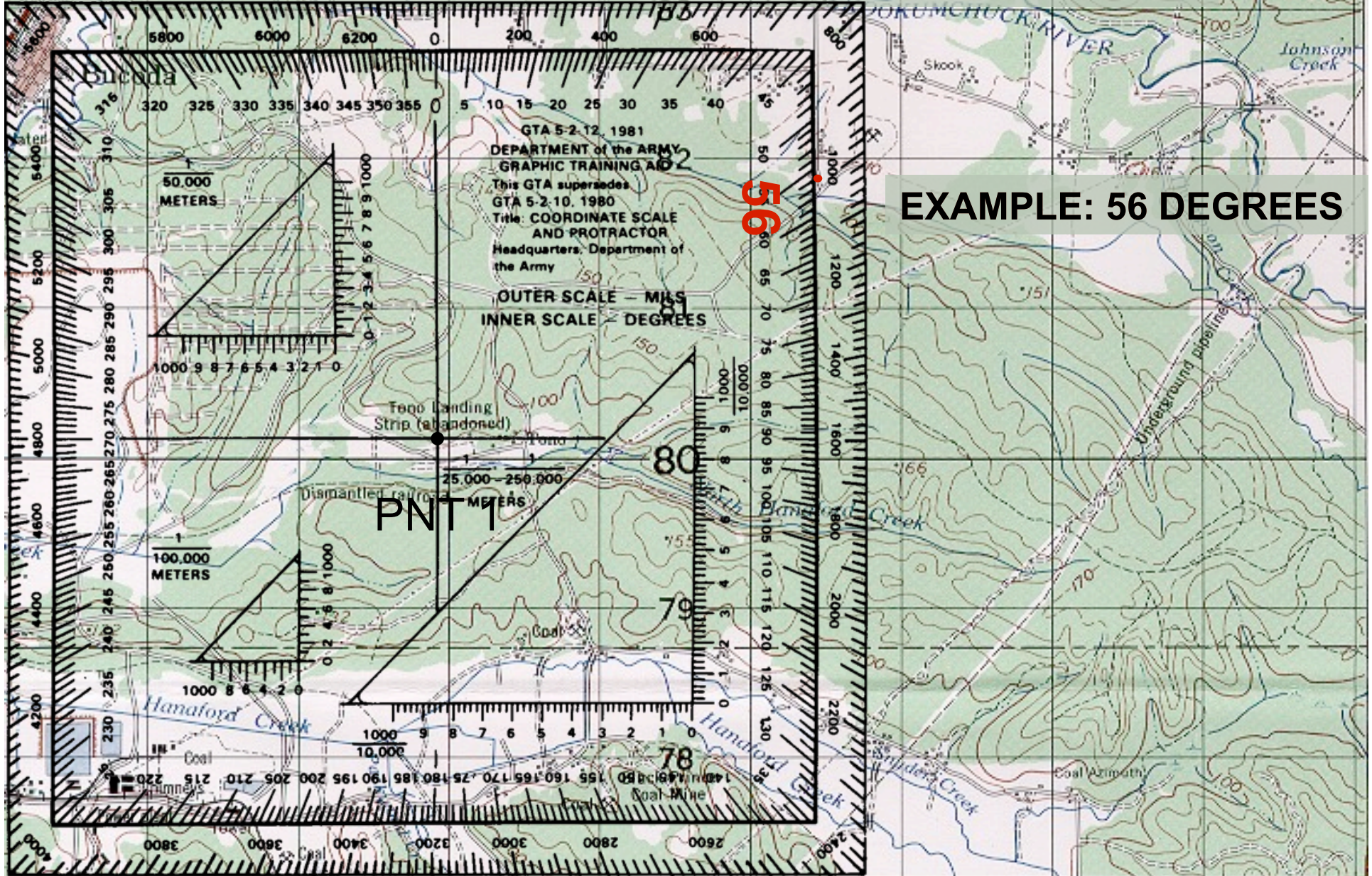
Plot distance from the know point along the azimuth line.

The polar coordinate is at the end of the azimuth/distance line.

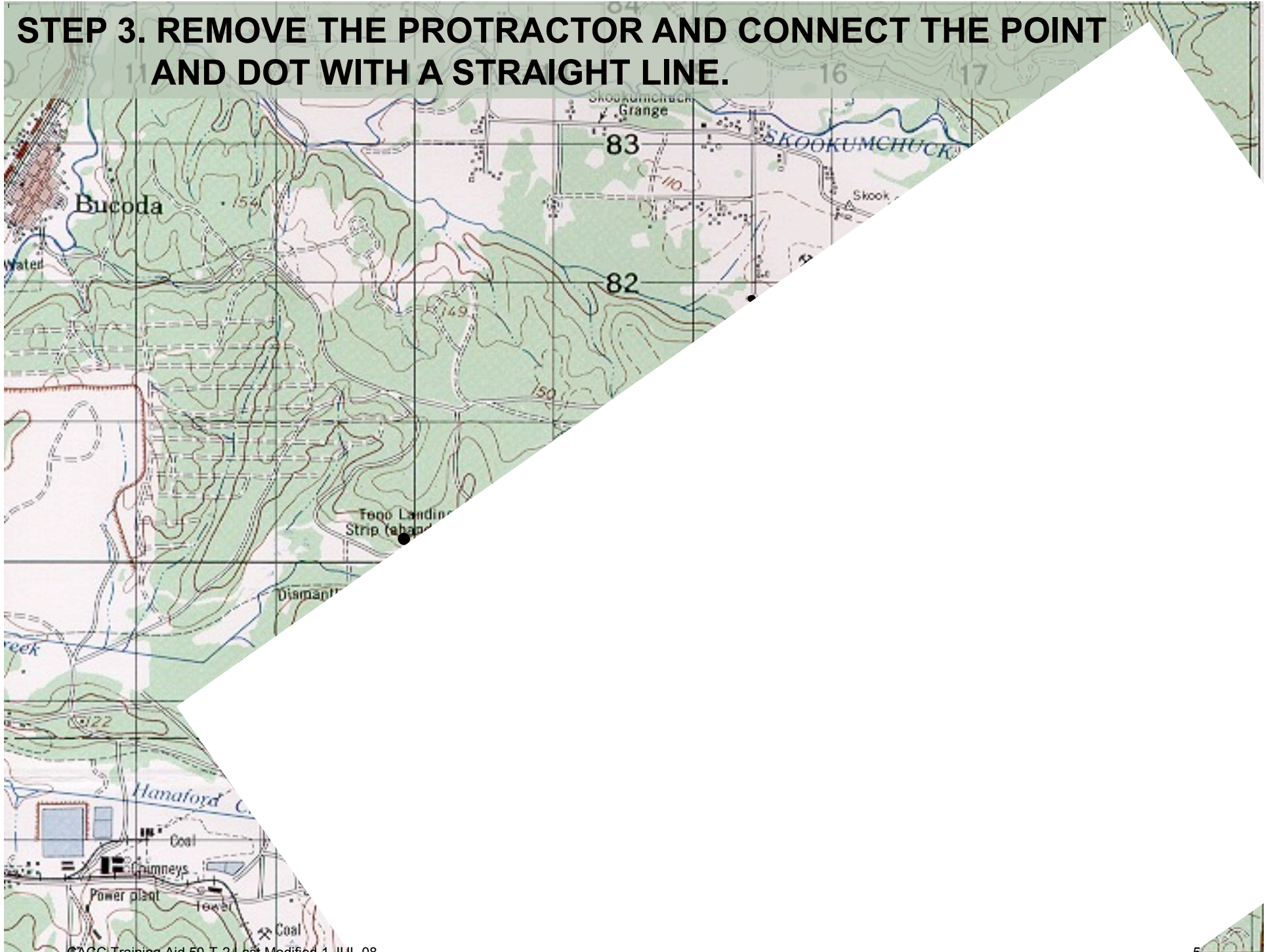
STEP 1. PLACE THE INDEX MARK OF THE PROTRACTOR AT THE CENTER OF MASS ON THE POINT FROM WHICH YOU ARE MEASURING.



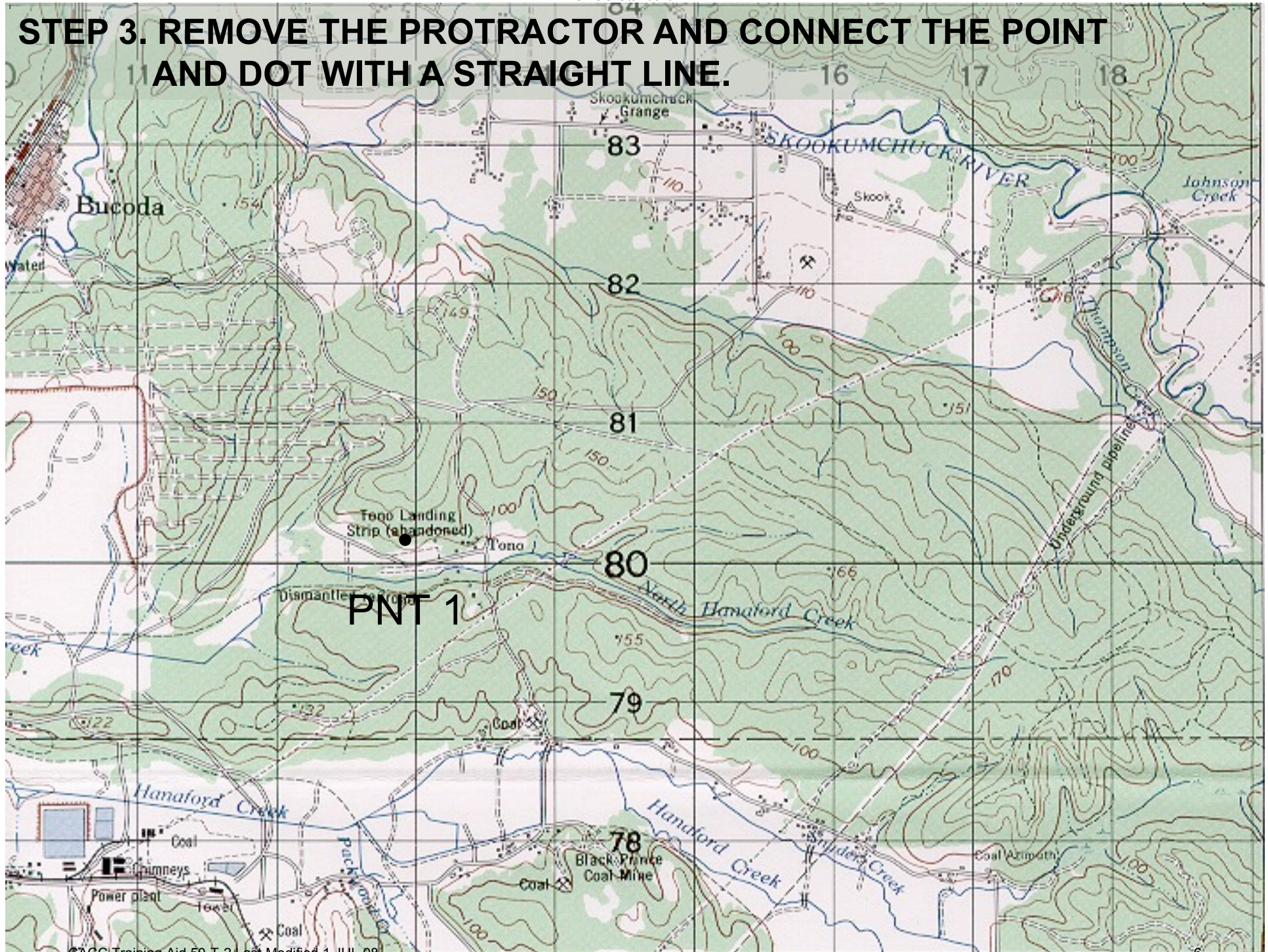
STEP 2. LOCATE THE DESIRED AZIMUTH ON THE PROTRACTOR SCALE AND PLACE A DOT ON THE MAP AT THIS AZIMUTH.



STEP 3. REMOVE THE PROTRACTOR AND CONNECT THE POINT AND DOT WITH A STRAIGHT LINE.

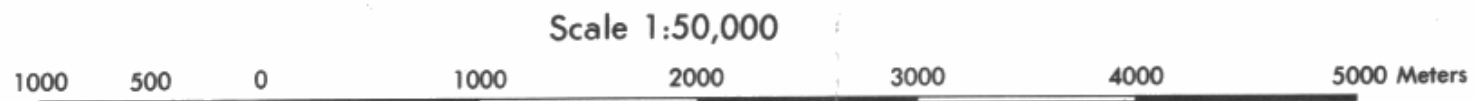


STEP 3. REMOVE THE PROTRACTOR AND CONNECT THE POINT AND DOT WITH A STRAIGHT LINE.



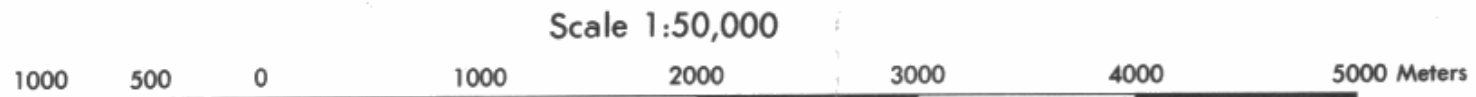
STEP 1. SELECT THE APPROPRIATE SCALE MEASUREMENT AND PLACE A PAPER STRAIGHT EDGE ON THE SCALE.

EXAMPLE: DISTANCE IN METERS

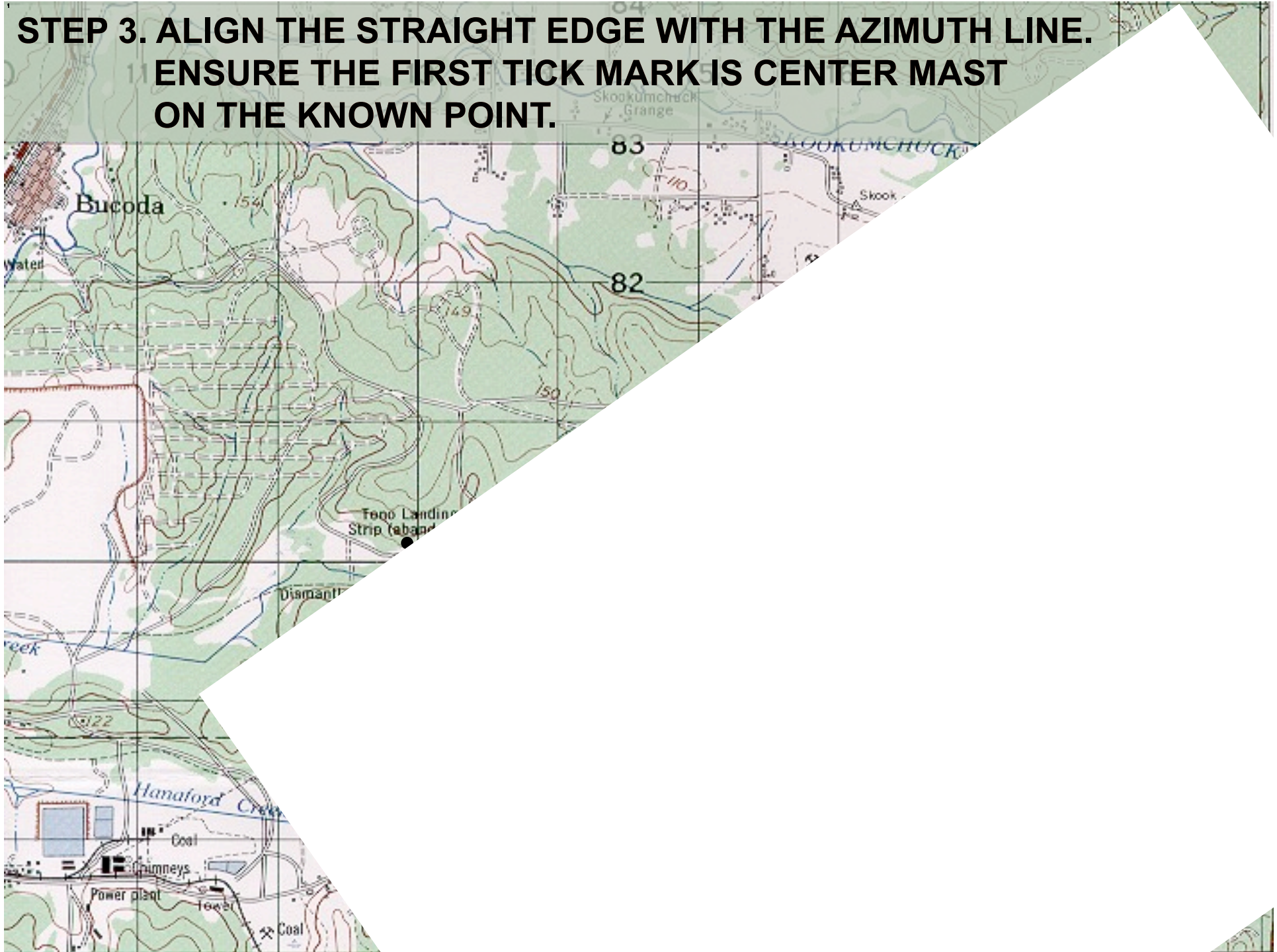


STEP 2. DETERMINE THE DESIRED DISTANCE TO MEASURE FROM THE SCALE AND MARK THE PAPER AT THIS DISTANCE USING TICK MARKS.

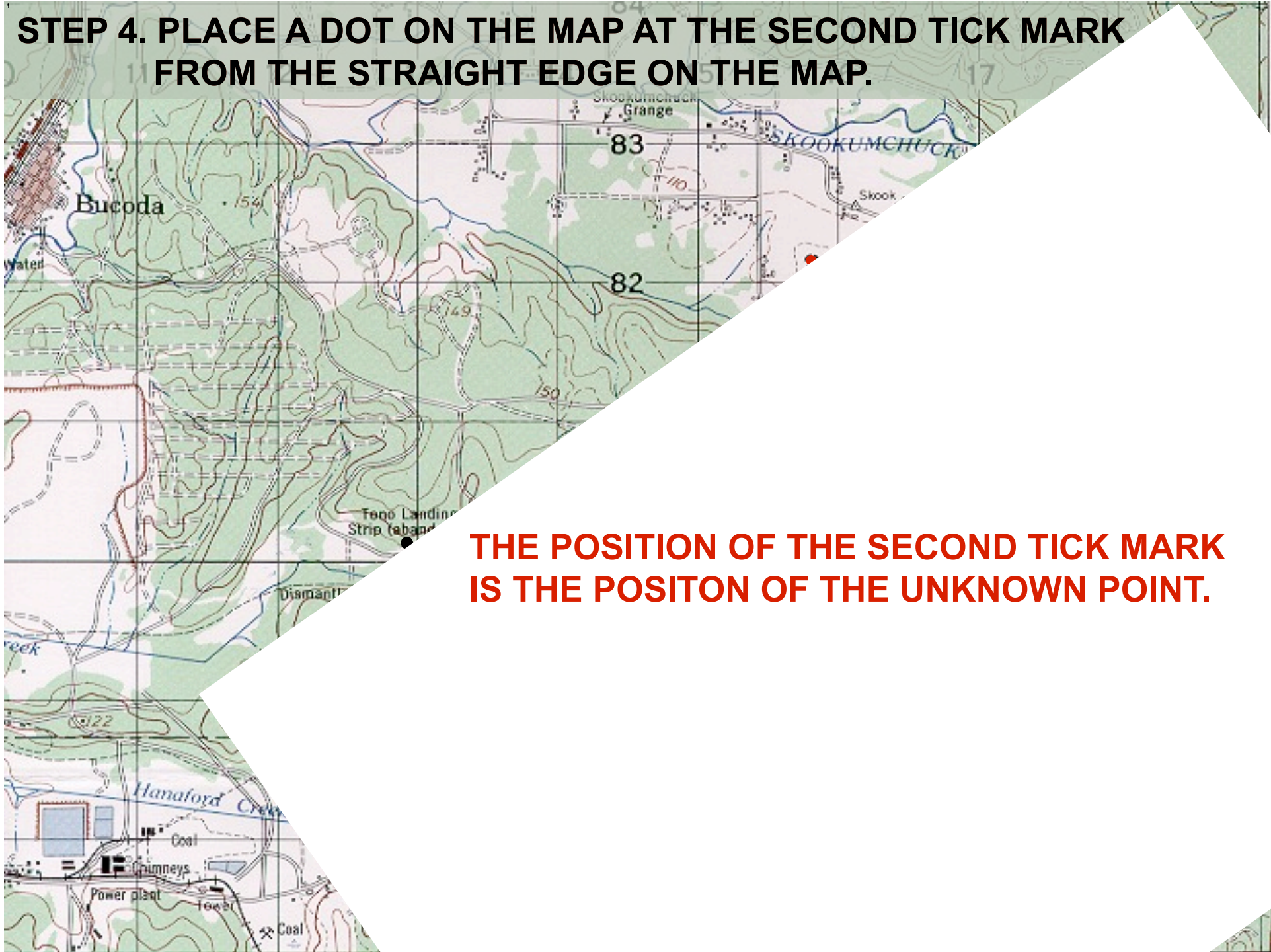
EXAMPLE: 3400 METERS



**STEP 3. ALIGN THE STRAIGHT EDGE WITH THE AZIMUTH LINE.
ENSURE THE FIRST TICK MARK IS CENTER MAST
ON THE KNOWN POINT.**

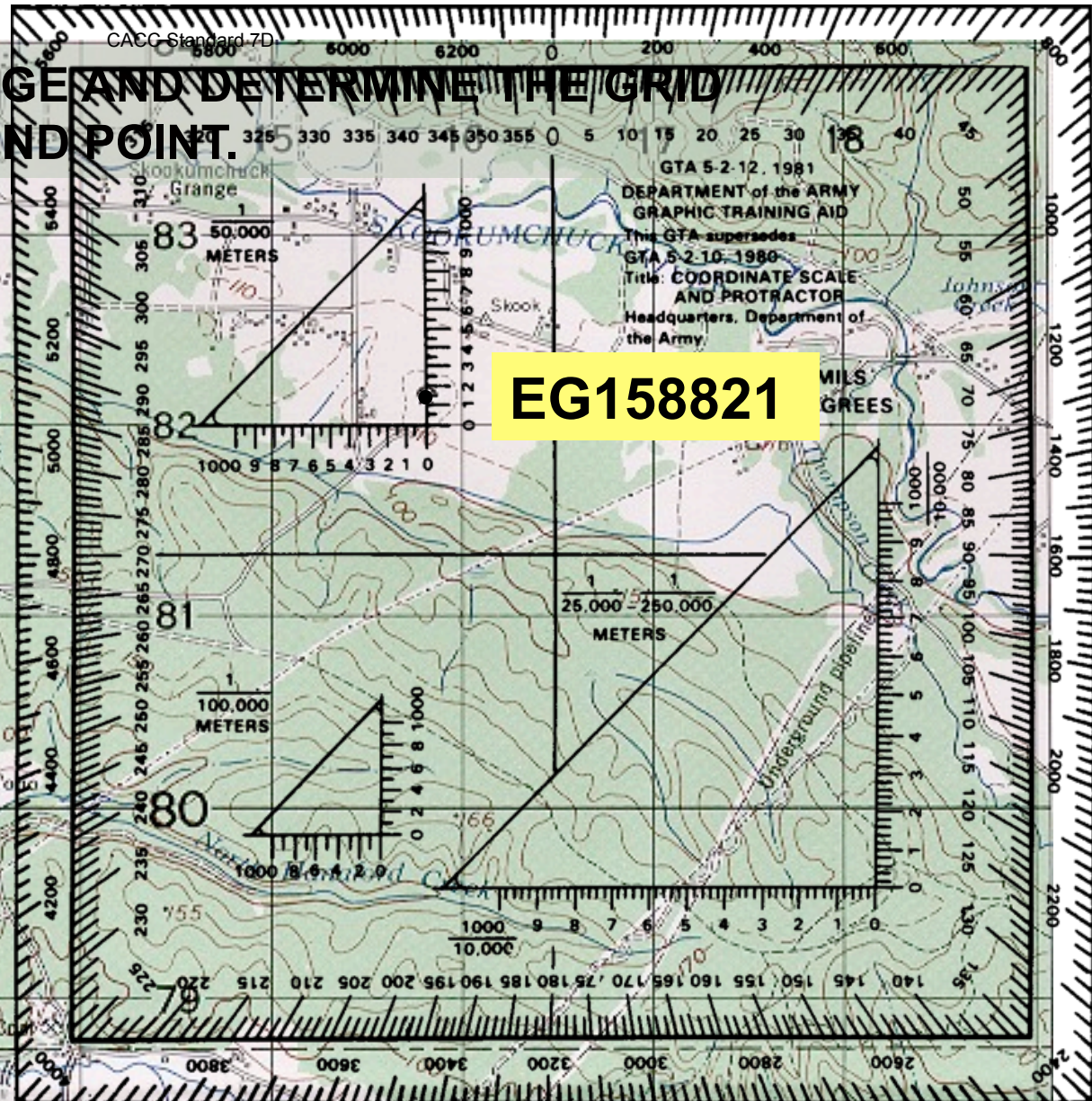


STEP 4. PLACE A DOT ON THE MAP AT THE SECOND TICK MARK FROM THE STRAIGHT EDGE ON THE MAP.



THE POSITION OF THE SECOND TICK MARK IS THE POSITION OF THE UNKNOWN POINT.

REMOVE THE STRAIGHT EDGE AND DETERMINE THE GRID COORDINATE TO THE SECOND POINT.



PNT 1