

T. 16 N., R. 46 E.

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| Chains                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Observation                                                                                                                                | Teles.   | Sun | Watch Time | Vertical Angle | Horizontal Angle |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|------------|----------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Second                                                                                                                                     | Direct   |     | 8h11m10s   | 37° 57' 00"    | 74° 08' 30"      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Do                                                                                                                                         | Reversed |     | 8h19m00s   | 38° 47' 00"    | 74° 47' 00"      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mean.....                                                                                                                                  |          |     | 8h15m05s   | 38° 22' 00"    | 74° 27' 45"      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Third                                                                                                                                      | Direct   |     | 8h12m30s   | 38° 09' 00"    | 74° 20' 00"      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Do                                                                                                                                         | Reversed |     | 8h18m10s   | 38° 22' 00"    | 74° 35' 30"      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mean.....                                                                                                                                  |          |     | 8h15m20s   | 38° 15' 30"    | 74° 27' 45"      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fourth                                                                                                                                     | Direct   |     | 8h14m00s   | 38° 20' 30"    | 74° 31' 30"      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Do                                                                                                                                         | Reversed |     | 8h17m00s   | 37° 54' 00"    | 74° 24' 00"      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mean.....                                                                                                                                  |          |     | 8h15m30s   | 38° 07' 15"    | 74° 27' 45"      |
| By first observation flag bears.....                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                            |          |     |            |                | N.23° 47' 00" E. |
| By second observation flag bears.....                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                            |          |     |            |                | N.23° 46' 30" E. |
| By third observation flag bears.....                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                            |          |     |            |                | N.23° 46' 50" E. |
| By fourth observation flag bears.....                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                            |          |     |            |                | N.23° 46' 10" E. |
| Mean true bearing of flag.....                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                            |          |     |            |                | N.23° 46' 37" E. |
| Near the completion of the work and as a final test for the bearings of boundaries and subdivisional lines, on August 4, 1937, at a point near the closing cor. of secs. 5 and 6 on the N. bdy. of the Tp., at 7h12.2m p.m., l.m.t., I make an hour angle observation upon Polaris, east of the meridian, five each with the telescope in direct and reversed positions, reading the horizontal angle from a flag on the secant line about 25 chs. east. |                                                                                                                                            |          |     |            |                |                  |
| Watch time (Std. 120° Meridian) of obsn.....                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                            |          |     |            |                | 6h59m40s p.m.    |
| Horizontal angle from flag to Polaris in direction E-N.....                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                            |          |     |            |                | 89° 13'          |
| Azimuth of Polaris.....                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                            |          |     |            |                | 0° 45.5' East.   |
| True bearing of flag and azimuth of secant....                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                            |          |     |            |                | N. 89° 58.5' E.  |
| Theoretical bearing of secant.....                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                            |          |     |            |                | N. 89° 58.7' E.  |
| DEPENDENT AND<br>INDEPENDENT RESURVEY OF THE THIRD STANDARD PARALLEL NORTH THRU<br>RANGE 46 EAST                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                            |          |     |            |                |                  |
| Independent Resurvey superseding the survey executed by Don H. Barker, Deputy Surveyor, in 1874, under Contract No. 66, except for the first 21.81 chs., which is a dependent resurvey.                                                                                                                                                                                                                                                                  |                                                                                                                                            |          |     |            |                |                  |
| From the std. cor. of T. 16 N., Rs. 46 and 47 E., which is an iron post, 3 in. diam., firmly set, mkd. and witnessed as described in the field notes of T. 16 N., R. 47 E., surveyed under this group.                                                                                                                                                                                                                                                   |                                                                                                                                            |          |     |            |                |                  |
| N. 89° 06' W., along S. bdy. of Sec. 36 (E. $\frac{1}{8}$ mile).                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                            |          |     |            |                |                  |
| Over rolling land thru med. dense undergrowth and scattered timber.                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                            |          |     |            |                |                  |
| 9.13                                                                                                                                                                                                                                                                                                                                                                                                                                                     | The angle point cor. at the identical position of the orig. std. cor. of T. 16 N., R. 46 and 47 E., as described in the above field notes. |          |     |            |                |                  |
| 21.50                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Dry wash, 20 lks. wide and 2 ft. deep, course N. 60° E.                                                                                    |          |     |            |                |                  |
| 21.81                                                                                                                                                                                                                                                                                                                                                                                                                                                    | The closing cor. of T. 15 N., Rs. 46 and 47 E., as described in the above field notes of T. 11 N., R. 47 E.                                |          |     |            |                |                  |
| Note: No trace of official corners was found west of this closing cor.                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                            |          |     |            |                |                  |