4 Test of Instrument.

Chains

Nov. 4, 1923, at the last above recorded station, I make a meridian observation of the sun for time and latitude, observing simultaneously the altitude of the sun's lower limb and the transit of the sun's west limb, reversing the telescope and observing simultaneously the altitude of the sun's upper limb and the transit of the sun's east limb:

| | |
|---|---|
| Mean observed altitude | = 34°50'58" |
| Reduced latitude | = 39°55'54" |
| Mean watch time of observation | =11h37m 55s |
| Watch slow of local mean time | = 5m 43s |

Measurements on the surveys of this township were made with a Lallie 5.00 ch. steel tape which was frequently compared with a U.S. standard 1.00 ch. steel tape.

Slope angles were determined by means of clinometers, the adjustments of which were made by comparing their readings with those of the transit.

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Retracement of a Portion of the East Boundary T. 24 N., R. 64 E.

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From the reestablished cor. of secs. 25 and 36, T. 24 N., R. 64 E., which is an iron post, described in the field notes for T. 23 N., R. 65 E., under this group. I retrace North, along the E. bdy. of sec. 25.

41.94 Fall 87 lks. E. of the original ¼ cor. of secs. 25 and 30, which is a trachyte stone, 5x10x16 ins., firmly set in a mound of stone, mkd. dimly ¼ on W. face. All evidences of the original pits have disappeared.

The true course of this ½ mile is therefore N. 1° 11' W., and its length 41.95 chs.

From this original ¼ sec. cor., with continuous measurement, North, along E. Bdy. of sec. 25.

81.94 After diligent search, failed to find any trace of the original cor. of secs. 19, 24, 25 and 30. Set temp. point.

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