

Test of Instrument.

3

Chains

point determined with the solar on previous date.

At 8h.0m a.m. app. t., I set off $40^{\circ} 14'$ N. on the lat. arc; $16^{\circ} 57'$ N. on the decl. arc; and determine a meridian with the solar, which falls $30''$ W. of the meridian established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

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

Throughout the survey of T. 27 N., R. 24 E. the adjustments of the transit were frequently examined and the solar apparatus tested at least once each week by comparing the results of a.m. and p.m. observations with the meridian established by observations on Polaris.

Survey of the East Boundary of T. 27 N., R. 24 E.

From the cor. of Tps. 26 and 27 N., Rs. 24 and 25 E., which is an iron post, described in the field notes for T. 26 N., R. 24 E., under this group.

North, bet. secs. 31 and 36.

Over rough mountainous land, through dense undergrowth,
desc. 35 ft. to

6.00 Gulch, course N. 80° W.; desc. 5 ft. to
8.50 Gulch, course N. 80° W.; asc. 17 ft. to
10.60 Point of low spur, projects W.; desc. 75 ft. to
21.20 Gulch, course W.; asc. 8 ft. to
26.20 Point of spur, projects W.; desc. 13 ft. to
27.70 Hillside drain, course W.; asc. 3 ft. to
29.20 Point of low spur, projects W.; desc. 30 ft. to
30.95 Gulch, course N. 55° W.; asc. 25 ft. to