

RETRACEMENT 4TH. STANDARD PARALLEL NORTH, RANGE 45 EAST

CHAINS

Reduced latitude = 39°35'46"N.
Mean watch time of observation = 12h.09m.47s.pm.
Watch fast of local mean time = 4m.17s.

At 4h.p.m. apparent time, I set off 39°36' on the latitude arc; 15° 47'N., on the declination arc; and determine a meridian with the solar. This meridian agrees with the true meridian.

The above tests, together with other tests of the solar apparatus at all hours suitable for solar observations give results that agree with the meridian as established by observations on Polaris, I therefore conclude that the adjustments of the instrument are satisfactory.

The instrument is tested at frequent intervals during the progress of the survey on the true meridian, and is kept in good adjustment.

MEASUREMENTS.

Unless otherwise specified all measurements are made with a Lallie steel ribbon tape 8 chs. long compared with a Lufkin standard steel tape 1 ch. long and found correct. The measurements are made on the slope, the vertical angle determined and the slope measurements properly reduced to true horizontal distances.

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I begin at the standard cor. of T.21 N., Rs. 45 and 46 E., which is a granite ^{Stone} 27 x 10 x 8 ins., firmly set in ground, marked and witnessed as described by the Surveyor General.
Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of T.21 N., Rs. 45 and 46 E., with brass cap marked

SC	
T21N	
R45E	R46E
S36	S31