

Chains

Survey commenced June 9, 1909, and executed with a W. and L. E. Gurley light mountain transit, no number, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the vernier of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Reno, Nevada, found correct and was approved by the Surveyor General for Nevada, May 24, 1909.

I examine the adjustments of the transit and correct the level and collimation errors, then to test the solar apparatus by comparing its indications resulting from solar observations made during A.M. and P.M. hours with a meridian determined by observations on Polaris, I proceed as follows:

At my camp in Sec. 26, T. 23 N., R. 23 E. and bearing S. 34° W. 15 chs. from the 1/4 sec. cor. bet. secs. 25 and 26 of said Tp., latitude 39° 49' N., longitude 119° 20' W. I set off 39° 49' on the lat. arc, 22° 57' N. on the decl. arc and at 2 h 00 m, l. m. t., determine with the solar a meridian and mark a point thereof by a tack in the top of a wooden peg driven firm in the ground, 5 chs. N. of my station.

June 10. 2h 13 m A.M., by my watch, which is correct l.m.t., I observe polaris at eastern elongation in accordance with Manual of Instructions, and mark a point in the line thus determined by a peg driven in the ground 5 chs. N. of my station.

June 10, 1909. At 7 h 30 m, l.m.t., I lay off the azimuth of Polaris 1° 32' to the west and mark the meridian thus determined by a lead pencil mark on the peg set June 9, 1909, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 10 h 00 m, l.m.t., I set off 39° 49' on lat. arc, 23° 01' N. on decl. arc and mark a point in the meridian determined with the solar by a cross on the peg already set 5 chs. N. of my station, this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by P.M. and A.M. observations defines positions for meridians respectively, about 0° 10' W. and 0° 16' E. of the meridian established by the Polaris observations, therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h 00m is N. 17° 40' W. the angle thus determined gives the mag. decl. 17° 40' E.

I commence at the cor. of secs. 1, 2, 35 and 36 on S. Bdy. of the Tp. heretofore described.

Thence I run

N. 0° 1' W. bet. secs. 35 and 36.

Over rolling and level land, sloping gently to E. Ravine, 15 ft. deep, course NE., cross more rolling land.

20.00

Set a basaltic stone 19x13x8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, and raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of stone.

40.00

Pits impracticable.

73.35

Wash in ravine, course NE.

80.00

Set a basalt stone 14x12x11 ins. 9 ins. in the ground

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