

Subdivision of frac. T. 25 N., R. 22 E.

Chains

Survey commenced May 23, 1912, by Earl G. Harrington, Transitman, and executed with a Young & Sons light mountain transit No. 8388, with solar attachment. The horizontal limb is provided with two double verniers placed opposite each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The iron posts used in the survey of this township are 3 feet long, 1 inch in diameter, and are set 26 ins. in the ground. The posts are pointed and driven, filled with cement, and fitted with brass caps.

May 20, 1912. At 7h 00m p.m., l.m.t., at my camp in the $SE\frac{1}{4}$ of sec. 15, T. 25 N., R. 22 E., Lat. $40^{\circ} 02' N.$, Long. $119^{\circ} 29' W.$, I observe Polaris in accordance with instructions in the Manual, and mark the direction thus determined by a tack driven in a wooden stake set firmly in the ground 7.00 chs. North of my station.

Time of observation 7h 00m p.m., l.m.t.

U. C. Polaris (G.L.O. Ephemeris) 9h 34.8m "

Time elapsed since U. C. or hour angle . 9h 25.2m

Azimuth of Polaris at time of observation $56' W.$

May 21, 1912. At 7 a.m., l.m.t., I lay off the azimuth of Polaris $56'$ to the East, and mark the meridian thus determined by a tack driven in a stake 7.00 chs. north of my station.

On this meridian the instrument is tested, while at work on the subdivisions and exteriors of this township.

May 23, 1912. At 8 a.m., l.m.t., I set off $39^{\circ} 59'$ on the lat. arc, $20^{\circ} 36\frac{1}{2}' N.$ on the decl. arc, and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36, on S. bdy. of Tp.