

## West Bdy. of T. 21 N., R. 24 E.

## Chains

The following surveys of exterior lines were executed by Guy P. Harrington, U. S. Surveyor, with Young & Sons light mountain transits, Nos. 8388 and 8394, with solar attachments. The horizontal limbs are 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 these surveys are 3 ft. long, and are set 26 ins. in the ground. The posts at section and  $\frac{1}{4}$  section corners are 1 inch in diameter, and are pointed and driven; and those at township corners are 3 inches in diameter, flanged and spread about 8 inches. All posts are filled with cement and fitted with brass caps.

Note: In order to subdivide secs. 19 and 30, T. 21 N., R. 24 E., into 40 acre tracts, I find that it is necessary to establish positions of  $1/16$  sec. cors. on the west bdy. of these sections outside of the reservation.

May 25, 1911. At 8 a.m., l.m.t., I set off  $39^{\circ} 39'$  on the lat. arc,  $20^{\circ} 50\frac{1}{2}'$  N. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 25, 30, 31 and 36, on W. bdy. of Tp. 21 N., R. 24 E.

Thence I run

North on a random line bet. secs. 25 and 30.

20.00 Set temp.  $1/16$  sec. cor.

40.44 Falls 21 lks. E. of the  $\frac{1}{4}$  sec. cor. bet. secs. 25 and 30, which is a granite stone  $12 \times 6 \times 4$  ins. above ground, mkd.  $\frac{1}{4}$  on W. face, and witnessed by pits and mound.

Returning to the cor. of secs. 25, 30, 31 and 36, I run N.  $0^{\circ} 18'$  W. on a true line bet. secs. 25 and 30.

Over nearly level land.

20.22 Set temp. stake at point for  $1/16$  sec. cor. No. 12, bet. secs. 25 and 30 (S.  $\frac{1}{2}$ ).

I establish no permanent corner at this point since it is not on the reservation.

21.60 Road, hrs. NE. and SW.

40.44 The  $\frac{1}{4}$  sec. cor. bet. secs. 25 and 30, heretofore described

From this  $\frac{1}{4}$  sec. cor., I run

North on a random line bet. secs. 25 and 30 (N.  $\frac{1}{2}$ ).

20.00 Set temp.  $1/16$  sec. cor.

39.36 Falls 26 lks. W. of the cor. of secs. 19, 24, 25 and 30, which is a granite stone  $16 \times 8 \times 4$  ins. above ground, mkd. 2 notches on S. and 4 on N. edges, witnessed by pits and mound.

Returning to the  $\frac{1}{4}$  sec. cor., thence I run