

Retracement and Resurvey of Subdivisional Lines, T. 26 S., R. 2 W.

CHAINS

from which

A sugar pine, 14 ins. diam., bears S.45*W., 28 lks. dist. Marked T 26 S R 2 W S 34 B T

A fir, 14 ins. diam., bears N.72*W., 23 lks. dist. Marked T 26 S R 2 W S 27 B T

Land, mountainous

Soil, stony clay loam, 3rd rate

Timber, fir, hemlock, cedar and sugar pine

Undergrowth, rhododendron, snowbrush, hazel and hemlock

Survey resumed June 19, 1918 and executed with a W and L. E. Gurley solar compass, not numbered. 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 arc. The vernier of the declination arc reads to half minutes.

The instrument was approved in the assignment instructions by the Ass't. Supervisor of Surveys for Oregon, June 1, 1918, subject to a satisfactory field test.

I examine the adjustments of the compass and find them correct; 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:

June 19, 1918: At my camp, $\frac{1}{4}$ mile west of the $\frac{1}{4}$ sec. cor. bet. secs. 16 and 17, T. 26 S., R. 2 W., latitude 43*18'N., longitude 122*57'W., I set off 43*18' on the lat. arc; 23*26'30"N. on the decl. arc; and at 4 p. m., l.m.t., determine with a solar a meridian and mark a point thereof on a peg, firmly driven in the ground, 5.00 chs. N. of my station.

At 8h 42m p.m., by my watch, which gives correct standard time, being compared this day with the Western Union