

Retracement of East Boundary of T. 33 N., R. 22 E.

Chains	Suns declination corrected for refraction	19° 44.3' S.
	Observed vertical angle lower limb direct	29° 17 $\frac{1}{2}$ '
	" " " " " reversed	29° 16 $\frac{1}{2}$ '
	Mean observed vertical angle	29° 17'
	Add Semi-Diameter	<u>0° 16'</u>
	Observed vertical angle to center of Sun	29° 33'
	Add declination	<u>19° 44.3'</u>
	Co-latitude of station of observation	= 49° 17.3'
	Latitude $\hat{=}$ 90° - 49° 17.3' =	40° 42.7' N.

During the progress of the survey in this township I verified the result of the above latitude observation by making similar observations in different localities of the township.

Nov. 20, 1916

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The old cor. of Tps. 33 N., Rs. 22 and 23 E., is a granite stone, 4 X 8 X 6 ins. above ground, firmly set in a mound of earth, marked and witnessed as described by the surveyor general.

Longitude approximately 119° 27' W. Observed latitude, 40° 42' N. Observed magnetic declination 18° 35' E.

From this cor. I retrace

North bet. secs. 31 and 36.

40.16 Intersect E. and W. line at a point 9 lks. E. of the old $\frac{1}{4}$ cor. of secs. 31 and 36, which is a volcanic stone, 3 X 6 X 8 ins. above ground, firmly set in a mound of earth, marked and witnessed as described by the surveyor general. This $\frac{1}{2}$ mile bears N. 0° 08' W. and its length is 40.16 chs. I continue my retracement north along same line.

80.36 Intersect E. and W. line at a point 14 lks. E. of the old cor. of secs. 25, 30, 31 and 36, which is a basalt stone, 5 X 10 X 8 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. This last $\frac{1}{2}$ mile bears N. 0° 04' W. and its length is 40.20 chs.