

Resurvey of the East Bdy. T.10 S., R.47 E., M.D.B. and M.

Chains

Survey commenced April 8, 1909. and executed with a C.L. Berger and Sons Mountain Transit No.4; the horizontal limb having two double verniers placed opposite to each other and reading to 30" of arc.

Preliminary to commencing the subdivision of this township, I retrace the four boundaries.

I begin at the corner of tps. 10 and 11 S., Rs.47 and 48 E., Lat. $37^{\circ}01'N.$, Long. $116^{\circ}40'W.$, which is a basalt stone 14 x 8 x 5 ins., above ground, firmly set, and marked, and witnessed as described by the surveyor general.

At 12:02 l.m.t., I observe the sun on the meridian, and obtain direct to upper limb $60^{\circ}28'$, reverse to lower limb $59^{\circ}53'$; the resulting latitude is $37^{\circ}01'25''$.

At 7:33 p.m. local mean time, I observe Polaris, in accordance with instructions in the manual. and mark the line thus determined by a tack driven in a wooden peg set in the ground, 6 chains north of my station.

Magnetic variation $16^{\circ}35'$ east.

April 9, 1909: At 8 a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ}23'30''$ to the east and run N. on a blank line on the east bdy. of the township. At 5 mi. 75.79 ch. intersect E. and W. line 95 lks. east of C.C. of Tps. 9 and 10 S., R.47 E., and at 6 mi. 82 lks. intersect S. bdy. T.9 S., R.48 E., 90 lks. E. of S.W.cor., and as these Tps. have not been subdivided, I resurvey the range line between them as follows.

From the cor. to Tps. 10 and 11 S., Rs. 47 and 48 E. I run N. bet. secs. 31 and 36.

Over gently rolling land, gradually descending.

40.00 Set a basalt stone 15 x 12 x 3 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

From this point, the old $\frac{1}{4}$ sec. cor., which is a stone, bears N. $12^{\circ}W.$ 20 lks. I destroy all traces of old cor.

68.00 Road to Transvaal bears S. $60^{\circ}E.$ and N. $60^{\circ}W.$