

## 12. Retracement of Subdivisional Lines in T. 31 N., R. 57 E.

Chains

Oct. 25, 1915: At the old cor. of secs. 3, 4, 33 and 34, which is an old post in an old mound of earth, at 7h.20m a.m., l.m.t., I set off  $40^{\circ} 38' N.$  on the lat. arc;  $11^{\circ} 47' S.$  on the decl. arc and determine a meridian with the solar. This cor. is hereinafter reestablished with an iron post. Thence I run S. retracing bet. secs. 3 and 4.

40.15 No corner could be found.

80.35 Old cor. of secs. 3, 4, 9 and 10, bears W. 26 lks. It is a badly decayed wooden post with faint scribe marks in an old mound of stone. The only way I have of identifying either of these corners is from the topography which checks very closely.

Course of this mile  $S. 0^{\circ} 11' W.$

I run S. from the old cor. making diligent search for old cors. at intervals of 40.00 chs. but finding none until at

319.95 The old cor. of secs. 27, 28, 33 and 34, bears W. 57 lks. It is a badly decayed post with faint scribe marks, lying on an old mound of earth with distinct evidence of 4 pits.

Course of line from last cor.  $S. 0^{\circ} 06' W.$

Proportionate distance for each  $\frac{1}{2}$  mile is  $39.99 \frac{3}{8}$  chs. All topography checks very closely.

Note: At the temp. point for  $\frac{1}{4}$  sec. cor. for secs. 21 and 22, at 11h.44m. a.m., l.m.t., I set off  $11^{\circ} 55' S.$  on the decl. arc and observe the sun on the meridian, the resulting latitude is  $40^{\circ} 35'.$

At 2h. 30m. p.m., l.m.t., I set off  $40^{\circ} 34' N.$  on the lat. arc;  $11^{\circ} 56\frac{1}{2}' S.$  on the decl. arc and determine a meridian at old cor. of secs. 27, 28, 33 and 34.

Thence I run S. bet. secs. 33 and 34.

40.00 Set a temp. point.

Oct. 25, 1915.

Oct. 26: At 9h. a.m., l.m.t., I set off  $40^{\circ} 33\frac{1}{2}' N.$  on the lat. arc;  $12^{\circ} 12' S.$  on the decl. arc and determine a meridian at the temp.  $\frac{1}{4}$  sec. cor.

Thence I continue South.

79.80 Standard Corner of secs. 33 and 34, bears W. 127 lks. It is a granite stone  $30 \times 14 \times 12$  ins. marked and witnessed as described by the Surveyor General.

Course of this mile  $S. 0^{\circ} 55' W.$  Length 79.81 chs.

At this old cor. at 11h.44m. a.m., l.m.t., I set off  $12^{\circ} 15' S.$  on the decl. arc and observe the sun on the meridian, the resulting lat. is  $40^{\circ} 33' N.$

Oct. 26, 1915