

Retracement of E. bdy T30N R45E

At 8 h. a.m. I set off $40^{\circ}24'N$ on the lat. arc; $12^{\circ}41'S$ on the decl. arc; and mark a point in the meridian determined with the solar, by a tack in the stake set last evening. This point falls 0.5 ins east of the meridian established by the Polaris observation.

The solar apparatus ^{by p.m. and a.m. observations} defines positions for meridian, respectively about $0'10''$ and $0'26''$ east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h. 30 m. a.m. is $N 18^{\circ}43'W.$; the angle thus determined, gives the mag. decl. $18^{\circ}43'E$.

I locate the cor. of Tps 29 and 30 N. Rs 45 and 46 E by retracing west along S bdy T30N R46E, from the $\frac{1}{4}$ sec cor bet 5 and 32, and find the cor of secs 5, 6, 31, 32 and $\frac{1}{4}$ cor bet secs 6 and 31.

Oct 27. At 2 h. 20 m. p.m. l.m.t. I set off $40^{\circ}24'N$ on the lat. arc; $12^{\circ}47'S$ on the decl. arc; and determine a meridian with the solar at the cor. of Tps 29 and 30 N. Rs 45 and 46 E which cor is a basalt stone $12 \times 9 \times 3$ ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General. I rebuild the mound S. of cor.

N. on a random line bet secs 31 and 36.

40.15 Fall 10 lks W of old $\frac{1}{4}$ sec. cor. which cor. is a granite stone $14 \times 12 \times 8$ ins, set firmly in a mound of stone, and marked and witnessed as described by the Surveyor General.

Thence down,

$50^{\circ}9'W$ on a true line bet secs 31 and 36

Desc. along W slope of high mountain

10.65 Road from Lewis Canyon to Grinn Canyon bears NW and SE

22.15 A spring branch, 4 lks wide, course NW asc;

25.25 Top of spur bears E and N ; desc.

37.90 Ravine, 3 lks wide course $N 60^{\circ}W$; asc

40.15 The Sp. cor. of Tps 29 and 30 N. Rs 45 and 46 E
From the $\frac{1}{4}$ sec. cor.

North on a random line bet secs 31 and 36

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

Post No. 1, Survey 1716 bears $N 25^{\circ}5'E$ $5^{\frac{69}{100}}$ chs. dist,