

Res Survey of S. bdy. T. 33 N. R. 76 E.

Chains

Aug 8: At 6 h. 0 m. a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ}32'$ to the west, and mark the meridian thus determined by a tack in the stake set Aug. 7., by the solar meridian, on which the meridian falls 0.3 ins. west of the mark determined by the solar.

At 9 h. 13 m. a.m., l.m.t., I set off $40^{\circ}40'N.$ on the lat arc, $16^{\circ}12'N.$ on the decl. arc, and determine a meridian with the solar, and mark a point in the line by a mark on the stake set 5 chs. N. of my station. This mark falls 0.5 ins west of the meridian determined by the Polaris observations. The solar apparatus, by p.m. and a.m. observations, defines positions, respectively, about $16''$ East and $26''$ W. of the meridian determined by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 9 h. 30 m. a.m. is $N. 180^{\circ}38' W.$, the angle thus determined gives mag. decl. $180^{\circ}38' E$

I re-establish the old cor. of Tps. 32 and 33 N. Rgs. 75 and 76 E, which is a willow stake with markings undecipherable, set in a mound of stone, as follows:

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in ground for cor. to Tps 32 and 33 N. Rgs. 75 and 76 E., with brass cap marked

$\begin{array}{c} T33N \\ R45E \\ S36 \\ 51 \\ 732N \\ 1212 \end{array}$	$\begin{array}{c} R46E \\ S31 \\ 56 \end{array}$
--	--