

Resurvey of the S. Bdy. of T. 22 N., R. 27 E.

1

Chains

Survey commenced Aug. 25, 1911, and executed with a Young and Sons' Solar transit.

The instrument was examined, tested on the true meridian at Reno, Nev., found correct, and was approved by the Surveyor General for Nevada, Aug. 12, 1911.

I begin at the cor. to Tps. 21 & 22 N., Rs. 27 and 28 E., which is a post 4x4 ins. by 5 ft. set firmly in the ground, marked as described by the Surveyor General.

In latitude $39^{\circ}43'N.$ at 9 h. 19.7 m. P.M., by my watch, which is correct, I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a stake about six chains north of my station.

Aug. 25, 1911.

Aug. 26, 1911. At 6:30 A. M., I lay off the azimuth of Polaris $1^{\circ}31.6'$ to the west, and mark the true meridian thus determined by driving a tack in a stake west of the point established last night; the magnetic bearing of said true meridian is $N.16^{\circ}15'W.$ which gives the magnetic declination $16^{\circ}15'E.$

At 7 h. 0 m. A. M., l.m.t., I set off $39^{\circ}43'$ on the lat. arc, $10^{\circ}43'N.$ on the decl. arc, and mark a point in the meridian determined by the solar, by a tack in the stake already set about six chains N. of my station; this mark falls $\frac{1}{2}$ in. west of the meridian established by Polaris observation.

From the Tp. cor. already described I run $S.89^{\circ}50'W.$ on a random line along the S. Bdy. T. 22 N., R. 27 E., and at each 40 and 80 chs. making diligent search for $\frac{1}{4}$ sec. and sec. cors., but am unable to discover any trace of such cors., and at 476.22 chs. the cor. to Tps. 21 and 22 N., Rs. 26 and 27 E., bears $S. 5.81$ chs., which makes the course of the S. Bdy. $N. 89^{\circ}09'E.$

I therefore re-establish this line by running $N. 89^{\circ}09'E.$ on a true line bet. secs. 6 and 31. Over heavily rolling land. Asc.

36.22

Set an iron post 3 ft. long, 1 in. diam. 24 ins. in ground for $\frac{1}{4}$ sec. cor. marked

S 31
 $\frac{1}{4}$
S 6
1911

and dig pits $18 \times 18 \times 12$ ins. E. and W. of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

76.22

Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in ground for cor. to secs. 4, 5, 31 and 32, marked

T. 22 N.
R27E S 31 | S 32
S 6 | S 5
T 21 N
1911

and dig pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land heavily rolling.

Soil, sandy, no timber, no grass.

Covered with a sparse growth of low, thorny brush.

Aug. 26, 1911.

Aug. 27: At 8 h. 0 m. l. m. t., I set off $39^{\circ}43'N.$ on the lat. arc, $10^{\circ}20'N.$ on the decl. arc, and obtain a meridian with the solar at the cor. of secs. 5, 6,