

RETRACEMENT OF WEST BOUNDARY T. 22 N., R. 27 E.

Chains fines positions for meridian about 21" east of the meridian established by the Polaris observation, therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 9h. a. m. is $N17^{\circ}30'W$; the angle thus determined gives the magnetic declination as $17^{\circ}30'E$.

From the corner above described, I run North, on W. bdy. Sec. 31.

- 40.19 Old $\frac{1}{4}$ sec. cor. bears E. 10 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}09'E$.
 80.22 Old sec. cor. bears E. 7 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}03'W$.
 120.65 Old $\frac{1}{4}$ sec. cor. bears E. 18 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}09'E$.
 160.74 Old sec. cor. bears E. 21 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}03'E$.
 200.82 Old $\frac{1}{4}$ sec. cor. bears E 19 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}02'W$.
 240.93 Old sec. cor. bears E. 17 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}02'W$.

August 19, 1911.

- 280.88 Old $\frac{1}{4}$ sec. cor. bears E. 21 lks. Bearing of $\frac{1}{2}$ mile $N0^{\circ}04'E$.
 321.07 Old sec. cor. bears E. 30 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}08'E$.
 361.37 Old $\frac{1}{4}$ sec. cor. bears E. 31 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}01'E$.
 401.50 Old sec. cor. bears E. 33 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}02'E$.

August 20, 1911, I set off $12^{\circ}38\frac{1}{2}'N$ on the decl. arc and at 12h.3m.29s. l.m.t. by my watch which is correct, observe the sun on the meridian, and obtain on the lat. arc the reading $39^{\circ}46'$ which substantially agrees with other data.

- 441.66 Old $\frac{1}{4}$ sec. cor. bears E. 28 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}04'W$.
 481.97 Cor. to Tps. 22 and 23 N., Rs. 26 and 27 E., which is an igneous rock 10x10x14 ins. above ground, firmly planted, with 6 notches chiseled on N. E. S. and W. edges, and T23N on N. side, and R27E on E. side, bears E. 23 lks. Bearing of $\frac{1}{2}$ mile, $N0^{\circ}04'W$. Bearing of the W. bdy. of Tp. $N0^{\circ}02'E$.
 August 20, 1911.

This line runs over heavy rolling land with frequent gulches and ridges. The vegetation consists only of desert brush with no timber or grass.

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