

Subdivision of T. 28 N. R. 22 E.

Chains

Survey commenced October 11, 1911, by Guy P. Harrington, U. S. Surveyor, and executed with a Young & Sons light mountain transit, No. 8388 with solar attachment. The horizontal limb is provided with two double verniers placed opposite each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

(For description of iron posts, see page 42).

October 11, 1911. At my camp which is in the $SE\frac{1}{4}$ of sec. 9, T. 28 N. R. 22 E., lat. $40^{\circ} 18\frac{1}{2}'$, long. $119^{\circ} 31' W.$, at 6h 03.7m P.M., L.M.T., I observe Polaris in position and mark the line of sight on the ground.

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| Time, U.C. Polaris, Oct. 11, | 12h 10.6m |
| Time of observation | 6h 3.7m |
| Hour Angle | 6h 6.9m |

From Table VII of the Manual of Surveying Instructions, the corresponding azimuth is $1^{\circ} 30\frac{1}{2}' E.$

October 12, 1911. At 7h 30m A.M., I turn $1^{\circ} 30\frac{1}{2}'$ to the West of the line of observation of Polaris and preserve the meridian thus established for subsequent tests of my solar instruments.

October 12, 1911. At 8 A.M., L.M.T., I set off $40^{\circ} 14\frac{1}{2}'$ on the lat. arc, and $7^{\circ} 06' S.$ on the decl. arc, and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36, on S. bdy. of Tp.

Thence I run

N. $0^{\circ} 01' W.$ bet. secs. 35 and 36.

Ascending steep SE. slope of mountain.

18.10 Top of ascent on ridge, hrs. NE. and SW.

Thence descend steep rocky NW. slope of ridge.

40.00 Set an iron post 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. bet. secs. 35 and 36, with brass cap stamped

$\frac{1}{4}$ S 35 in W. half
S 36 in E. half

Build a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Cor. in draw, drains NW.

80.00 Set an iron post 26 ins. in the ground, for the cor. of secs. 25, 26, 35 and 36, with brass cap stamped