

Fractional Resurvey of E. Bdy. T. 40 N., R. 22 E.

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Chains

Survey commenced October 26, 1914, and executed with Young & Sons' light mountain transit No. 8390 with Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was approved by Mr. G.D.D. Kirkpatrick Asst. Supervisor of Surveys, at Salt Lake City, Utah, on April 24, 1914. It was also tested on October 25, 1914, on a meridian determined by observation on Polaris, and found to be correct, as recorded in Book B.

Measurements were made with steel tapes, 5.00 chs. in length, the first 100 lks. being graduated to links and the remainder to 10 links. Vertical angles were read with a clinometer.

FRACTIONAL RESURVEY OF E. BDY. T. 40 N., R. 22 EAST

Having made an independent resurvey of the E. bdy. of T. 39 N., R. 22 E., it is necessary that I make an independent resurvey of the E. bdy. of T. 40 N., R. 22 E. I make such resurvey, searching the while for old corners, but finding none. I proceed as follows:

December 1: At 9h. 0m. a.m., l.m.t., I set off $41^{\circ} 18'$ on the lat. arc and $21^{\circ} 42.5'$ S. on the decl. arc and determine a meridian with the solar at the cor. of Ts. 39 and 40 N., R. 22 E., described in Book B.

Thence I run on E. bdy. T. 40 N., R. 22 E.

North, on E. bdy. sec. 36.

Over rolling mountainous land. Descend 240 ft. to draw, starting on N. slope.

5.00 Slope changes to NE.

27.00 Small draw, course E.; ascend 35 ft. on SE. slope to top of spur.

31.40 Spur, projects N. $70^{\circ} E.$; descend 90 ft. on NE. slope to draw.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S $36 \frac{1}{4}$

1914

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

41.70 Large draw, course E.; ascend 120 ft. to top of ridge, starting on S. slope.

46.00 Slope changes to SW.

56.50 Ridge, bears E. and W.; descend 25 ft. on NE. slope to draw.

75.40 Draw, course E.; ascend 20 ft. on S. slope to corner.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 16 ins. in the ground to solid rock and in a mound of stone, for cor. of secs. 25 and 36, with brass cap marked

T 40 N

R 22 E

S 25

S 36

1914

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

This mile is on rolling mountainous land. The soil is gravelly and rocky, producing a fair growth of sage brush and some bunch grass. No timber.