

Fractional Resurvey of E. Bdy. T. 43 N., R. 18 E.

Chains

Survey commenced November 12, 1913, and executed with Smith Young & Sons' light mountain transit No. 8390, with/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 July 14, 1913, and April 24, 1914, and tested on a Polaris meridian. (See Page 26). Measurements were made with 4- and 5-chain steel tapes, the vertical angles being read with a clinometer.

The completion of the survey of this township had previously been assigned to Mr. W. A. Pray, U. S. Surveyor, and Mr. J. D. Archer, U. S. Transitman, and some work had been done; but on account of errors and defects in the work and changes in the desired method of procedure it was necessary that a new survey should be made. In cases where I found corners set by those surveyor to be in the proper position and satisfactorily established I accepted such corners, leaving the year date as originally marked.

At 9h. 0m. a. m., 1. m. t., I set off $41^{\circ} 37.5'$ on the lat. arc and $17^{\circ} 38'$ S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30, which I find to be a granite stone, 14 x 7 x 3 ins., set in a mound of stone, and mkd. with 2 grooves on S. face and 6 notches on E. edge. As the pits are nearly obliterated I build a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor. Longitude at this cor is $119^{\circ} 54' W.$

Thence I retrace North, between secs. 19 and 24.

40.00 Fall 24 lks. E. of the $\frac{1}{4}$ sec. cor., as described by the Surveyor General.

Therefore the bearing of this line is N. $0^{\circ} 21'$ W., and the length 40.00 chs.

From the cor. I retrace North on the N. half mile.