

Retracement of S. Bdy. of T. 23 N., R. 19 E.

1.

Chains

Survey commenced November 16, 1914, and executed with a Young & Sons light mountain transit, No. 7192, with a Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, and tested on the meridian at Reno, Nevada, found correct and approved by G.D.D. Kirkpatrick, Assistant Supervisor of Surveys, for Utah and Nevada, March 2, 1914.

Nov. 15, 1914. The solar apparatus, by a.m. and p.m. observations defines positions for meridians, less than one minute east and west of the meridian determined by Polaris, on Oct. 27, 1914 and a description of which is given on the first page in notes of T. 22 N., R. 19 E. I conclude that the adjustments are satisfactory. Measurements are made with a Lallie 5.00 ch. steel tape, and slope angles are taken with a Leitz clinometer, furnished by G.D.D. Kirkpatrick, Assistant Supervisor of Surveys, for Utah and Nevada.

The completion of this fractional township had been assigned to R.H. Fletcher, U.S. Surveyor and J.N. Ernst, U.S. Transitman, who subsequently reported having made such survey. The Surveyor General having made an office examination of the returns of that survey, and, having found therein errors and inconsistencies requiring correction in the field, I was directed to make such corrections, and, while in the field, to examine the survey as a whole, to ascertain whether they had been properly executed, and if necessary to make a new survey.

Nov. 16 to 21, 1914, I make such examination and find grave errors in measurement and alignment, and some of the corners missing. As provided by the instructions I make a new survey.

Nov. 16, 1914: At 2h 0m p.m. l.m.t., I set off $39^{\circ}49'$ N. on the lat. arc; $18^{\circ}41'S$. on the decl. arc and determine a meridian with the solar at the cor. of secs. 4 and 33, which is a porphyry rock $3 \times 6 \times 16$ ins. above ground marked and witnessed as described by the Surveyor General.

Thence I retrace

East on a blank line bet. secs. 4 and 33.

40.00 Make diligent search for cor. of secs. 3, 4, 33 and 34, but find none.

Set temporary corner:

Continue E. on the same line.

80.00 Make diligent search for $\frac{1}{4}$ cor. of secs. 3 and 34. Find none.

Set temporary corner and continue East on the same line.

120.00 Make diligent search for cor. of secs. 2, 3, 34 and 35. Find none.

Set temporary corner for cor. of secs. 2, 3, 34 and 35.

Nov. 16, 1914.