

Retracement of 6th Std.Par.N., thru R. 50 E.

1.

Chains

Note: For description and test of instrument used by J. C. Clark, U. S. Transitman, see Book J, T. 32 N., R. 49 E., Group No. 27.

Survey commenced May 20, 1916, and executed with a Young and Son's transit No. 6517, with 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 approved by the Assistant Supervisor of Surveys, at Salt Lake City, Utah, April 17, 1916.

The instrument was given a complete test April 24, -25, in the survey of T. 32 N., R. 49 E., and also in the survey of T. 35 N., R. 50 E., on May 30, 1916; and was therefore in adjustment at this time.

From the closing corner of Tp. 30 N., Rs. 50 and 51 E. which is an iron post 3 ins. in dia., 12 ins. above ground, and marked and witnessed as described by the Surveyor General; which is at a point N.84°35'W. 5.88 chs. from the $\frac{1}{4}$ sec. cor. on the S. side of sec. 36, T. 31 N., R. 50 E., I calculate the course (approximately) to the old original Std. Cor. of Secs. 34 and 35, and proceed as follows:

N.80°40'W. (approximate course) on a retracement line between secs. 1 and 36.

34.12 Find no trace of the original cor. of secs. 35 and 36, after diligent search. Set a temp. sec. cor.

From temp. sec. cor.,

N.80°40'W. on a retracement line along the S. side of sec. 35:

40.00 Find no trace of the original std. $\frac{1}{4}$ sec. cor. after diligent search.

Set a temp. $\frac{1}{4}$ sec. cor.

93.27 Fall 7 lks. S. of the original Std. Cor. of secs. 34 and 35, which is a light brown volcanic stone 10x9x5 ins. above ground, marked with 4 notches on W. and 2 on E. edges, but no other marks visible, and in a small mound of stone.

39.60 N.89°52'W. (course reported by U.S. Surveyor Pray) on a retracement along the S. side of sec. 34, from corner. The original Std. $\frac{1}{4}$ Sec. Cor. for sec. 34, which is a brown volcanic stone 15x7x1 ins. loosely set in a small mound of stones, and plainly marked $\frac{1}{4}$, but no other marks visible.

40.00 N.88°20'W. (calculated course) on a retracement, along the S. side of sec. 34. Find no trace of the original Std. Cor. of Secs. 33 and 34. Set a temp. sec. cor.

75.20 N.88°20'W. (same calculated course) on a retracement along the S. side of sec. 33. The original Std. $\frac{1}{4}$ Sec. Cor. on the S. side of sec. 33, which is a volcanic stone 8x6x4 ins. above ground, plainly marked $\frac{1}{4}$ and with an iron post 1 in. in dia., 12 ins. above ground, marked on brass cap:

$\frac{1}{4}$ S33
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which I change to an angle point by defacing the markings on the brass cap and remarking as follows:

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