

Chains

By Ruban W. Riley, U.S. Transitman.

Survey commenced October 19th, 1914, and executed with a Young & Sons, light mountain transit No. 8146, with solar attachments. The horizontal limb is provided with two double opposite verniers reading to single minutes of arc, which is also the least count of the latitude and declination arcs.

The instrument was examined and tested on the meridian at Salt Lake City, Utah and found correct and was approved by the Asst. Supervisor of Surveys July 23, 1914.

All measurements were taken with 500 lk. steel tapes along the slope of the surface and the vertical angles read with Lietz Clinometers and the horizontal distances reduced by means of the Standard Field Tables. A 100 lk. standard steel tape was kept for testing the long tapes. October 19, 1914:

At 7 h 15 m, a.m., l.m.t., I set off 40°44'N. on the lat. arc; 9°47'S. on the decl. arc; and determine a meridian with the solar at the $\frac{1}{4}$ sec. cor. on the S. side of sec. 36, Tp. 34 N., R. 50 E., heretofore described. Thence

20.24 West on the north side of sec. 1, Tp. 33 N., R. 50 E. Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor. for sec. 1, only, with brass cap mkd:

$\frac{1}{4}$ S 1
1914

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

NOTE:

This $\frac{1}{4}$ sec. cor. is set 40.00 chs. from the E. Bdy. of the Tp.

20.24 From the cor. of secs. 35 and 36, on the S. Bdy. of Tp. 34 N., R. 50 E., heretofore described, Thence West along the N. Bdy. of sec. 1, T. 33 N., R. 50 E. Making 80.00 chs. from the E. Bdy.

Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground for the cor. of secs. 1 and 2, with brass cap mkd:

T 34 N R50E
S2 | S1
T33N
1914

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

20.24 From the $\frac{1}{4}$ sec. cor. on the S. side of sec. 35, T. 34 N., R. 50 E., heretofore described, Thence West along the north side of sec. 2. Making 40.00 chs. from the East side of sec. 2.

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

$\frac{1}{4}$ S 2
1914

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