

Independent Resurvey of the East Boundary of T. 18 N., R. 52 E.

Chains

The following field notes are those of an independent resurvey of the east boundary of T. 18 N., R. 52 E. superseding the original survey executed by E. L. Bridges and J. H. Eaton, Deputy Surveyors, in 1879.

The survey was executed with Buff solar transit No. 18001, with U-shaped standards, 4½ inch horizontal circle, 4 inch vertical circle, and improved solar attachment, constructed in accordance with the standard specifications of the General Land Office, a predecessor of the Bureau of Land Management. All instrumental adjustments were examined before making the field tests.

For a description and pertinent data relative to a solar observation made coincidental with the field work, see field notes of the independent resurvey of the east boundary of T. 17 N., R. 52 E. executed concurrently under this survey group.

The lines of survey were measured with a Lallie steel tape, 5.00 chains in length, graduated every link for the first chain, and thereafter at intervals of 10 links. The tape was tested by comparison with a Lufkin standard tape, 1.00 chain long, and found correct. The measurements were made on the slope, and the vertical angle of each interval was ascertained by use of a clinometer which was maintained in good adjustment. The horizontal equivalents are entered in the field note record. All lines of this survey were run by direct methods, and the solar was used only in a minor capacity such as for reading bearings of bearing trees, etc.

All lines of this survey are double chained and the distances shown in these field notes are the average of the two measurements. The difference between the two measurements was in no instance greater than 6 links for any one-half mile.

The geographic position of the cor. of Ts. 17 and 18 N., Rs. 52 and 53 E., as determined by section line connections to U.S.C. & G.S. Triangulation Station "Tank" in Eureka Townsite, in T. 19 N., R. 53 E. is latitude 39° 22' 55.7" N., and longitude 116° 03' 23.5" W.

Beginning at the cor. of Ts. 17 and 18 N., Rs. 52 and 53 E., which is monumented with an iron post, 3 ins. diam., set, mkd. and witnessed as described in the field notes of the independent resurvey of the east boundary of T. 17 N., R. 52 E.

North, bet. secs. 31 and 36.

Over rough mountainous land, through dense timber and undergrowth; asc. 34 ft. along a rocky W. slope.

8.50 Slope changes to SW.; asc. 344 ft. over same.

40.00 Point for the ¼ sec. cor. of secs. 31 and 36.

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, and in a mound of stone, 2½ ft. base, 18 ins. high, with brass cap mkd.

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S 36 | S 31
1936

from which