

The survey was executed with W. and L. E. Gurley transits Nos. 481346 and 541326; both constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instruments were maintained in precise adjustment throughout the progress of the survey.

The direction of the lines of the survey were determined by reference to true meridians established on line by altitude observations on the sun. The lines were carried forward by sustained angulation and supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

Measurements were made with a narrow steel tape, 8 chains in length and graduated in tenths for the first 10 links, every link for the next 99 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; the field notes show the horizontal equivalents only. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by triangulation or traverse methods. Topography calls on lines run by triangulation or traverse are approximate as scaled from U. S. G. S. topographic sheets.

Corners on the east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method. The random line, retracement triangulation and traverse data were checked and verified prior to the conclusion of the field work. In order to simplify the record, the true line notes only are supplied herewith, which refer to the completed resurvey.

The geographic position for the southeast corner of T. 17 S., R. 67 E. is in latitude $36^{\circ} 24' 15.8''$ N. and longitude $114^{\circ} 26' 32.6''$ W. as determined by section line ties to U. S. G. S. triangulation station "Fire" located in the southwest $\frac{1}{4}$ section 16, T. 18 S., R. 67 E.

The magnetic declination was read at a number of stations throughout the Tp. and the average of these readings was found to be 16° E.

Dependent Resurvey of a Portion of the Fourth Standard Parallel South, through R. 67 E.

Reestablishment of the survey executed by Woods and Myrick, Deputy Surveyors, in 1881.

Beginning at the standard cor. of secs. 31 and 36, Tps. 16 S., Rs. 67 and 68 E., which is monumented by an iron post, 2 ins. diam., set in concrete, with brass cap of the U. S. Department of Agriculture Biological Survey mkd.

SC T16S
R67E R68E
S36 | S31
1939

The original cor. monument of the standard cor. of secs. 31 and 36, Tps. 16 S., Rs. 67 and 68 E., as described in the official record is deposited alongside the post.

N. $89^{\circ} 59'$ W., along the S. bdy. of sec. 36.

Asc. 10 ft. over E. slope.

2.00 Top of ascent, thence over nearly level land.

13.20 Nevada State Highway No. 12, bears NE. and SW., thence over series of washes draining NE.