

Township 19 South, Range 59 East

Chains

The boundaries and subdivision of T. 19 S., R. 59 E., were surveyed by Deputy Surveyors Brunt and Proctor in 1881.

The following notes are those of the resurvey of the south boundary, a portion of the north and west boundaries and a portion of the subdivision of Township 19 South, Range 59 East. The east boundary was concurrently resurveyed by Paul K. Russell, under Group 357, and its record appears in the field notes of the resurvey of T. 19 S., R. 60 E.

This survey was undertaken at the request of the State Supervisor for Nevada to provide identification of the boundaries of the sections considered suitable, in whole or in part, for small tracts.

Before restoring the corners, the lines of the original survey were retraced, and diligent search made for any evidence of the original corners, bearing trees and other calls of the original field note record. When duly identified the corner positions were remonumented.

The rules of proportionate measurement were applied in order to ascertain the position of lost corners, after completing the necessary retracement to connect with the identified corner locations, but not until exhausting every reasonable possibility of finding direct evidence for the control of each particular corner. In order to simplify the record, the true line notes are supplied herewith, which refer to the completed resurvey.

The survey was executed with W. and L. E. Gurley transit No. 481347. It is equipped with full vertical circle and improved Smith-type telescopic solar attachment, and conforms to the standard instrumental specifications of the Bureau of Land Management. The instrument was maintained in precise adjustment throughout the progress of the survey.

The directions of all lines herein reported are determined by deflection, from meridians established by observations upon Polaris and the sun, throughout the survey.

Measurements were made with a narrow steel tape, 8 chains in length, graduated every link for the first 10 links, and thereafter at intervals of 5 links. The tape was tested by comparison with a one-chain standard steel tape and found correct. All measurements were made on the slope and the vertical angle of each interval ascertained by a clinometer in good adjustment; the horizontal equivalents alone are entered in the field note record. The length of all lines was determined by chaining where possible, otherwise by traverse or triangulation. The details of such traverses or triangulations have been thoroughly verified and in order to simplify the record the diagrams and reductions are omitted from the field notes.

The geographic position of the southeast corner of the township is in latitude $36^{\circ} 14' 48''$ N. and longitude $115^{\circ} 18' 51''$ W., as determined by scaling from U. S. G. S. quadrangle Blue Diamond.

The magnetic declination was read at a number of stations throughout the township and the average of the readings was found to be $15^{\circ} 45'$ E.

Dependent Resurvey of the S. Bdy., T. 19 S., R. 59 E.

Reestablishment of the survey executed by Brunt and Proctor in 1881. Beginning at the cor. of Ts. 19 and 20 S., Rs. 59 and 60 E., a $2\frac{1}{2}$ in. iron post, set and mkd. as described in the field note