

Township 38 North, Range 32 East

Chains

The original survey was by G. W. Garside in 1874.

The following field notes are those of a dependent resurvey of the four boundaries and subdivisions of Township 38 North, Range 32 East.

The survey was requested by the Bureau of Land Management, State Supervisor for Nevada, to provide identification of boundaries of desert land entries in an area believed to have adequate underground water supply and to locate certain range improvements.

The survey was executed with W. and L. E. Gurley transits, serial Nos. 541409 and 570628, both being the property of the Bureau of Land Management, and constructed in accordance with their standard specifications. The horizontal plates have two double verniers placed opposite to each other and the vertical circles have one double vernier. The horizontal verniers are graduated to 30" of arc and the vertical verniers are graduated to single minutes of arc. The instruments were in good adjustment, and prior to the beginning of the field work they were examined and all error eliminated. They were maintained in good adjustment during the survey.

The directions of all lines were determined by stellar observation and by direct solar method and the measurements were made with Lufkin steel tapes, 8 chains in length, graduated to one-tenth link for the first 10 links, and each link for the next 90 links, and every 10 links for the balance. The tapes were tested by comparison with a one chain standard 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 only are entered in the field note record.

The transits were checked from time to time on the camp meridian which was established by the following direct solar observation: May 16, 1959, at the corner of Townships 37 and 38 North, Ranges 31 and 32 East, in latitude 41° 07' N. and longitude 118° 27' W., I make a series of 6 altitude observations upon the sun for azimuth, 3 each with the telescope in direct and reversed positions, and observe the horizontal angle from a flag on a random section line, in clockwise direction to the sun.

Time of observation (120th meridian standard time)

Mean time of observation 9h 20m AM

Mean observed vertical angle 39° 14'

Mean observed horizontal angle 99° 13'

Declination of the sun 19° 02' 36" N.

True bearing of line N. 0° 23' 40" W.

The geographic position of the southeast corner of the township is latitude 41° 06' N., longitude 118° 20' W. The mean magnetic declination is 18° 15' E.

Dependent Resurvey of the South Boundary of T. 38 N., R. 32 E.

Reestablishment of the survey executed by G. W. Garside in 1874.

The cor. of Tps. 37 and 38 N., Rs. 32 and 33 E. is monumented with stone 33x12x12 ins. with 6 faint grooves on 4 sides, set in mound of stone on slope, described in original notes.

At the cor. point.