

Township 29 North, Range 43 East

Chains

The four boundaries and a portion of the subdivision of the township were surveyed by Hatch, Eaton and Smyles in 1872.

The following field notes are those of an independent resurvey of the south and west boundaries, and a resurvey and original survey of a portion of the subdivision of T. 29 N., R. 43 E.

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 Numbers 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 opposite verniers graduated to 30" of arc, and the vertical circles have one double vernier graduated to single minutes. The instruments were in good adjustment and prior to the beginning of the field work they were examined and the errors eliminated. They were maintained in good adjustment during the survey.

The directions of all lines were determined by stellar observation and by direct solar methods, 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 thereafter at intervals of 10 links. The tapes were tested by comparison with one chain standard tape, and found correct. All measurements made on the slope, had 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 a meridian which was established by the following direct solar observation August 19, 1959 at the corner of sections 2, 3, 34 and 35 on the south boundary of T. 29 N., R. 43 E.; latitude 40° 20' 18" N. and longitude 117° 07' 00" W. I make a series of 6 altitude observations upon the sun for azimuth, 3 each with telescope in direct and reversed positions, and observe the horizontal angle from a peg driven firmly in the ground, 10 chains northerly, in clockwise direction to the sun.

Time of observation (120th Meridian Standard Time)	8h 20m AM
Mean observed vertical angle	36° 46' 00"
Mean horizontal angle	104° 59' 15"
True bearing of the line to the stake	N 0° 38' 30"

The geographic position of the southeast corner of the township is latitude 40° 20' 15" N., longitude 117° 04' 43" W., determined through section ties to U. S. C. & G. S. triangulation station 'Harry'.

Dependent Resurvey of a portion of the South Boundary, T. 29 N., R. 43 E.

Reestablishment of the survey executed by Hatch, Eaton and Smyles in 1872.

The cor. of Tps. 28 and 29 N., Rs. 43 and 44 E., mkd. by a small mound of stone, with old rotten stump in center.

At the cor. point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.