

INDEPENDENT RESURVEY OF THE SIXTH STANDARD PARALLEL NORTH, ALONG THE
SOUTH BOUNDARY OF Ts. 31 N., Rs. 26 and 27 E., M.D.M., NEVADA

The independent resurvey of the Sixth Standard Parallel North thru Rs. 26 and 27 E. was executed by Quinten Campbell and G. Marvin Litz from October 17 to November 21, 1947. The survey was executed with a Gurley solar transit, serial No. 38123, property of the Bureau of Land Management. The horizontal circle has two double verniers reading to one minute and the vertical circle has one double vernier reading to one minute. The instrument is in good condition and having been placed in satisfactory adjustment prior to beginning the survey, is tested and found free from appreciable error.

As the line to be established traverses desert valleys and relatively low mountains devoid of timber and covered with low undergrowth of shadscale and sagebrush, the tangent method is selected. A transit line is carried forward, taking the mean of direct and reverse sights at each instrument station.

The measurements are made with narrow steel tapes, 5 chs. in length; each tape is graduated every link for the first 100 lks. and thereafter at intervals of 10 lks. The tapes are tested by comparison with a 1-chain standard steel tape and found correct. Both sets of measurements are made on the slope and the vertical angles are determined by clinometers in good adjustment; the field notes show the horizontal equivalents. The line thru R. 27 E. is double chained and the mean of the measurements is given in the field notes.

October 17, 1947 at the standard corner of Ts. 31 N., Rs. 27 and 28 E., in latitude $40^{\circ}30'$ N. and longitude $118^{\circ}54'$ W., I make a series of hour angle observations of Polaris, making eight readings, four each with the telescope in direct and reversed positions.

Mean standard time of observation	01h 00m 22s p.m.
Mean vertical angle	$39^{\circ}34'$
Mean horizontal angle from reference flag east to Polaris.	$0^{\circ}23'37''$
Reduced latitude	$40^{\circ}30'$ N.
Reduced azimuth Polaris	N. $0^{\circ}19'25''$ E.
Bearing of reference flag	N. $0^{\circ}04'12''$ W.

By the method of deflection angles I pick a foresight on a conspicuous group of rocks on top of mountain 5 miles West.

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Superceding the survey executed by T. K. Stewart, Deputy Surveyor
in 1905.

Beginning at the standard cor. of Ts. 31 N., Rs. 27 and 28 E., which is monumented with an iron post, 3 ins. diam., firmly set, mkd. and witnessed as described in the official record, from which White Horse Spring bears N. $5^{\circ}20'$ E., 46.44 chs. dist.

West, along the Sixth Standard Parallel North along the S. bdy. of sec. 36, T. 31 N., R. 27 E., on a transit line describing the tangent, which bears West.

Over low rolling foot hills thru sagebrush; desc. slightly.

0.40	Small ravine, course NE.
2.00	Ravine, course N.; asc. 20 ft. over NE. slope.
5.00	Side hill spur slopes N.; along N. slope.
8.60	Spur, slopes N.; desc. 140 ft. over NW. slope.
25.00	Foot of hills bear NE. and SW.; desc. 80 ft. over rolling desert.