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T. 12 N., R. 32 E.

Chains

118°23' W. as determined by reference to U. S. C. and G. S. station "Pilot Cone" in T. 13 N., R. 31½ E., Nevada, at 6h 51m 00s, p. m., l. m. t., I observe Polaris at eastern elongation, making six observations, three each with telescope in direct and reversed position, reading the deflection angle from a flag about 30 chains north-easterly to the north:

Azimuth of Polaris at eastern elongation-N.1°19'57"E.
 Mean deflection angle-----13°30'15"
 True bearing of flag-----N.14°50'12"E.

October 4, 1936, in camp in sec. 21, T. 12 N., R. 32 E., Nevada, in latitude 38°53'30" N. and longitude 118°23' W. as determined by reference to U. S. C. and G. S. station "Pilot Cone" in T. 13 N., R. 31½ E., Nevada, I make a meridian altitude observation of the sun for latitude, observing the sun's lower limb with the telescope in direct position, reversing the telescope and observing the sun's upper limb:

Apparent time of observation, noon-----12h 00m 00s
 Mean observed altitude-----46°36'35"
 Reduced latitude-----38°53'42"

The measurements were made with Lallie steel ribbon tapes 8 chains in length. These tapes were graduated every link for the first chain and thereafter at intervals of 10 links. These tapes were compared with a Lufkin standard steel tape 1 chain in length and found to be correct. Measurements were made on the slopes, and the vertical angles determined with improved type clinometers; the slope measurements were properly reduced to corresponding horizontal distances which appear in these notes.

INDEPENDENT RESURVEY OF THE
 S. BDY. OF T. 12 N., R. 32 E., SUPERSEDING
 THE SURVEYS EXECUTED BY T. K. STEWART, U.S.
 DEPUTY SURVEYOR, IN 1884.
 CONTRACT NO. 170

At the cor. of Tps. 12 N., Rs. 32 and 33 E., Nevada, I establish by means of direct solar observations, heretofore recorded, a meridian from which, by four repeated angles, I determine the azimuth of my tangent line at its initial point. The initial bearing of the tangent is West.

West, with the establishment of the S. bdy. of T. 12 N., R. 32 E., along the S. bdy. of sec. 36, on a transit line describing the tangent, which starts at the Tp. cor. and bears West.

Over rolling flats, through dense undergrowth and intermittent sand dunes.

40.00 On the tangent,

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor. of sec. 36 only, with brass cap mkd.