

Survey of the East and West bdys. of Tps. 7 & 8 N.,  
R. 70 E., and the S. bdy. of T. 9 N., R. 71 E.

Chains

The survey was executed with Young and Sons' solar transit No. 8395 property of the General Land Office. The horizontal circle is equipped with two opposite verniers reading to 1' of arc; the vertical circle is equipped with one double vernier reading to 1' of arc. The instrument was in good condition and having been placed in satisfactory adjustment prior to the beginning of the survey and tested and found free from appreciable error, was approved by the District Cadastral Engineer in assignment instructions dated September 10, 1945.

Measurements were made with steel tapes, five chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 lks. The tapes were tested by comparison with a standard, 66 ft. in length, and found correct. Measurements were made on the slope; the vertical angles were determined by clinometers in good adjustment; the field notes show the horizontal equivalents.

The solar attachment was not used. All lines were established by solar observations or by angles, determined by the method of repetition of angles, deflected from such previously established lines and carried forward by transit line, taking the mean of direct and reversed sights at each instrument station. The azimuth of all lines was checked by frequent solar observations throughout the progress of the survey and by deflection angles from such verified lines.

To prevent the unnecessary burdening of the record only the observations at the beginning of the range lines bet. Rs. 69 and 70 E.; and bet. Rs. 70 and 71 E. are recorded herein.

Sept. 19, 1945 at the cor. of Tps. 6 and 7 N., Rs. 69 and 70 E., in latitude 38° 25' N., and longitude 114° 11' W., as shown in the data furnished with the special instructions, I make an altitude observation of the sun, first setting on the suns upper and right limbs, then after reversal of the instrument, setting on the lower and left limbs; the horizontal angles are measured from a point established one half mile north by extension of the line bet. T. 6 N., Rs. 69 and 70 E.

Mean watch time of observation .....	9h 05m a.m.
Mean vertical angle .....	39° 30'
Mean horizontal angle .....	127° 43'
Reduced bearing of point .....	North.

October 2, 1945, at the cor. of Tps. 6 and 7 N., Rs. 70 and 71 E., in latitude 38° 25' N., Longitude 114° 04' W. as determined from data furnished with the special instructions; I make an altitude observation of the sun, first setting on the suns upper and right limbs, then after reversal of the instrument, setting on the lower and left limbs; the horizontal angles are measured from a point established five chains dist. in an approximately north direction.

Mean watch time of observation .....	10h 00m a.m.
Mean vertical angle .....	36° 04'
Mean horizontal angle .....	132° 03'
Reduced bearing of point .....	N. 0° 33' E.

A second point was established 4.8 lks. to the west of this point and the mean of the multiple angle indicates an angle of 0° 32' 45".

West Bdy. T. 7 N., R. 70 E.

Survey commenced at the corner of Tps. 6 and 7 N., Rs. 69 and 70 E., an iron post, 3 ins. diam., firmly set and mkd. as described in the official record.

North, through T. 7 N., bet. Rs. 69 and 70 E., bet. secs. 31 and 36.

Over slightly rolling land.