

EAST BOUNDARY T. 9 N., R. 70 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 Sept. 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 an observation at the SE. cor. of the Tp. is recorded herein.

October 5, 1945, at the cor. of Tps. 8 and 9 N., Rs. 70 and 71 E., an iron post, 3 ins. diam., described in the field notes of the survey of the E. bdy. of T. 8 N., R. 70 E., executed under this group, in latitude 38° 35' N., and longitude 114° 04' W., as determined from the data furnished with the special instructions, I make an altitude observation on the sun, first setting on the sun's lower and left limbs, and then, after reversal of the instrument, setting on the upper and right limbs; the horizontal angles are measured from a flag on the cor. of Tps. 8 and 9 N., Rs. 69 and 70 E.

Mean watch time of observation	5h 11m p.m.
Mean vertical angle	10° 45'
Mean horizontal angle	114° 45'
Reduced bearing flag.	N. 89° 57' W.

By the method of repetition of angles, a point was established North, approximately $\frac{1}{2}$ mile dist.

Thence, from the tp. cor.,

North, through T. 9 N., bet. Rs. 70 and 71 E., bet. secs. 31 and 36.

Over slightly rolling land draining generally W.

8.50 Shallow wash on low fan, drains W.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with a pint brown glass bottle deposited at base, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$
S36 | S31
1945

No suitable accessory.

61.20 Wash, 30 lks. wide, $1\frac{1}{2}$ ft. deep, from irregularly E., course irregularly N. 70° W.