

## T. 42 N., R. 25 E., M. D. M.

## Chains

The survey was executed with Buff and Buff solar transit No. 16725, property of the Bureau of Land Management. 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 Regional Cadastral Engineer in the assignment instructions.

Measurements were made with steel tapes, five chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. 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 observation at corner of secs. 34 and 35, on the S. bdy. of the township is recorded herein.

August 2, 1946, at the cor. of secs. 34 and 35, on the S. bdy. of T. 42 N., R. 25 E., M. D. M., in approximate latitude  $41^{\circ} 31' N.$ , and longitude  $119^{\circ} 06' W.$ , 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 approximately 10 chains west by angles deflected from lines of the preliminary retracements to the north.

Mean watch time of observation . . . . .	8h 48m a.m.
Mean vertical angle . . . . .	$42^{\circ} 22'$
Mean horizontal angle . . . . .	$165^{\circ} 16\frac{1}{4}'$
Reduced bearing of point . . . . .	West.

## Completion of the S. bdy. of T. 42 N., R. 25 E., M.D.M.

Survey commenced at the original cor. of secs. 34 and 35, on the S. bdy. of the township, which is monumented by a lava stone, 6x10x16 ins., firmly set in a small mound of earth and mkd. on the top face with 6 grooves near the N. and S. sides, 2 grooves near the E. side and 4 grooves near the W. side.

At point for corner.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with the original mkd. stone deposited at the base, for cor. of secs. 34 and 35, on the S. bdy. of the township, with brass cap mkd.

T42N	R25E
S34	S35

1946

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

West, on tangent line, on S. bdy. sec. 34, bearing S.  $89^{\circ} 59.2' W.$