

EAST BOUNDARY OF TOWNSHIP 13 NORTH, RANGE 49 EAST

Chains

For a description of instruments used and the methods of measuring and projecting the azimuths of lines, refer to the records of T. 12 N., R. 49 E., executed under this group.

September 18, 1938, at the $\frac{1}{4}$ sec. cor. of secs. 19 and 30, T. 13 N., R. 49 E., in latitude $38^{\circ} 56' 10''$ N. and longitude $116^{\circ} 30' 30''$ W., I make an hour angle observation on Polaris for determination of azimuth. The observation consisted of 4 pointings both direct and reversed at the star and reading the horizontal angles to a flag about 15 chs. East.

Sidereal hour angle of Polaris	16h 14m 27s
Azimuth of Polaris, E. of N.	$1^{\circ} 11' 37''$
Mean horizontal angle from Polaris to flag	$88^{\circ} 46'$
True bearing of flag	N. $89^{\circ} 58'$ E.

This bearing checked satisfactorily with other bearings determined by Solar observations and also the bearings of lines turned from the N. bdy. of T. 12 N., R. 49 E.

Commence the survey of T. 13 N., R. 49 E. at the cor. of Tps. 12 and 13 N., Rs. 49 and 50 E., which is an iron post 3 ft. long, 3 ins. diam., firmly set, mkd. and witnessed as described in the official record,

Thence,

North, bet. secs. 31 and 36.

Over rolling valley land through medium dense undergrowth.

4.00 Wash, course SE.

19.80 Wash, course SE.

32.70 Wash, course E.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$
S36 | S31
1938

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

40.30 Wash, course SE., begin to asc. over a gentle SE. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with a rock 2x3x5 ins. mkd. X, deposited at the base, for cor. of secs. 25, 30, 31 and 36, with brass cap mkd.

T13N
R49E R50E
S25 | S30
S36 | S31
1938

Land, gentle rolling valley floor.
Soil, sandy loam with fine gravel, 3d rate.
No timber; undergrowth, button sage and bunch grass.
Grazing, fair.

North, bet. secs. 25 and 30.