

SURVEY OF FRACTIONAL TOWNSHIP 13 $\frac{1}{2}$ NORTH, RANGE 50 EAST.

Chains

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

August 9, 1938, at the cor. of Tps. 13 and 13 $\frac{1}{2}$ N., Rs. 50 and 51 E., in latitude 39° 00' 20" N., and longitude 116° 18' 30" W., I make an Eastern Elongation observation on Polaris for azimuth. The observation consisted of observing Polaris with the transit telescope both direct and reversed and marking the mean position of these pointings with a tack on a peg 10 chs. to the north.

Azimuth of Polaris..... 1° 19' 34" E.

From this established meridian the bearings of the boundaries were determined and the lines projected in the prescribed manner. Additional observations were taken on the sun at frequent intervals which checked the bearings previously determined.

EAST BOUNDARY OF T. 13 $\frac{1}{2}$ NORTH, RANGE 50 EAST

At a point 480.00 chs. N. of the cor. of Tps. 12 and 13 N., Rs. 50 and 51 E., which is an iron post, 3 ft. long, 3 ins. diam., firmly set, mkd. and witnessed as described in the official record,

Set an iron post, 3 ft. long, 3 ins. diam., 6 ins. in the ground and in a mound of stone to top, for cor. of Tps. 13 and 13 $\frac{1}{2}$ N., Rs. 50 and 51 E., with brass cap mkd.

T13 $\frac{1}{2}$ N	
R50E	R51E
S36	S31
S1	S6
T13N	
1938	

from which

A limber pine, 12 ins. diam., bears N. 78 3/4° E., 36 lks. dist., mkd. T13 $\frac{1}{2}$ NR51E S31 BT.

A nut pine, 7 ins. diam., bears S. 69 1/4° E., 30 lks. dist., mkd. T13NR51E S6 BT.

A nut pine, 4 ins. diam., bears S. 23° W., 49 lks. dist., mkd. BT only.

A large porphyry boulder showing 7x8x11 ft. above the ground, bears N. 52 1/2° W., 7 lks. dist., measure and bearing taken to a chiseled X, mkd. BO.

Thence

North, bet. secs. 31 and 36.

Over mountainous land through medium dense undergrowth and dense timber, asc. 30 ft. over SW. slope.

8.30 Spur, slopes W., desc. 120 ft. over NW. slope.

19.40 Ravine, course W., asc. 180 ft. over SW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., over a X on solid rock, and in a mound of stone to top, for 1/4 sec. cor., with brass cap mkd.

1/4	
S36	S31
1938	