

EAST BOUNDARY OF T. 13 N., R. 31 E.

Chains

For description of instruments and establishment of meridian for the surveys in this township executed in 1936, refer to the field notes of the survey of T. 12 N., R. 31 E., surveyed under this group.

For description of instruments and method of measurement used on this and adjoining townships surveyed during 1937, refer to the field notes of the survey of T. 13 N., R. 32 E.

For a final check on the accuracy of alignment, for the surveys in Ts. 13 N., R. 31 and 31½ E., an altitude observation upon the sun for azimuth was made at the cor. of Tps. 13 and 14 N., Rs. 31 and 31½ E., the record of which follows:

April 13, 1937, at the above Tp. cor., in latitude 39° 01½" N., and longitude 118° 27½" W., as computed from U.S.C. & G., station "Pilot Cone" in Sec. 13, T. 13 N., R. 31½ E., at 9h 18m a.m. and at 9h 49m a.m., app. t., I make two altitude observations on the sun for azimuth; direct and reversed positions of the telescope, observing opposite limbs of the sun, and reading the deflection angle from a line flag south about 70 chs. distant; SE. to the sun:

Obsn.	Tele.	W.T.	Vert. Angle	Hor. Angle
1st	Direct	9h11m50s	43°17'30"	61°04'30"
1st	Reverse	9h13m10s	42°56'00"	61°29'30"
Mean		9h12m30s	43°06'45"	61°17'00"
2nd	Direct	9h42m20s	48°18'00"	53°01'00"
2nd	Reverse	9h44m16s	48°01'00"	53°12'00"
Mean		9h43m18s	48°09'30"	53°07'00"

By 1st observation, flag bears S. 0° 00'30" W.

By 2nd observation, flag bears South.

The cor. of Ts. 12 and 13 N., Rs. 31 and 31½ E. is an iron post, 3 ft. long, 3 ins. diam., mkd. and witnessed as described in the field notes of T. 12 N., R. 31 E., surveyed under this group.

Thence

North, along the E. bdy. bet. secs. 35 and 36,

Over broken mountainous land thru medium dense small undergrowth:

Desc. 190 ft. over N. slope.

8.40 Draw, drains S. 80° W., asc. 40 ft. over SW. slope.

15.70 Spur, slopes N. 80° W., desc. 50 ft. over NE. slope.

20.10 Wash, drains W., asc. 60 ft. over S. slope.

24.00 Small spur, slopes N. 60° W.

25.90 Small draw, drains NW., asc. 70 ft. over SE. slope.