

EAST BOUNDARY OF T.13 S.,R.49 E.

CHAINS

Survey commenced November 30, 1906 and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At a point 15.12 chs. W. of the standard cor. to Tps. 12 S., Rs. 49 and 50 E., heretofore described, I set a basalt stone, 15x12x8 ins., 10 ins. in the ground, for closing cor. of Tps. 13 S., Rs. 49 and 50 E., marked C C 13 S on S., 49 E on W., and 50 E on E faces, with 6 grooves on S., E. and W. faces, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.

Pits impracticable.

November 30: At 3h. 49m., p.m., l.m.t., I set off 36°48' N. on lat. arc, 21°34' S. on decl. arc, and determine a meridian with the solar, at the closing cor. just described and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of the cor.

November 30, 1906

December 1: At 2h. 46m., a.m., l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

At 7 a.m., I lay off the azimuth of Polaris, 1°29' to the east, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7h. 49m., a.m., l.m.t., I set off 36°48' N. on lat. arc, 21°40' S. on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs. N. of my station; this mark falls 0.4 ins. east