EAST BOUNDARY OF T.4 S.,R.48 E.

Survey commenced,November 8,1906,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 the standard cor.of Tps.4 S.,Rs.48 and 49 E., heretofore described on the First Standard Parallel South, in apptoximate latitude 37°30'N.,longitude 116°35'W.,I set off 37°30'N.on lat.arc,16°29'S.on decl.arc,and at 3h.44m.,p.m.,l.m.t.,determine with the solar a meridian and mark a point thereof,on a stone,firmly set in the ground,5 chs.N.of the cor.

November 8,1906.

November 9: At 4h.12m.,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.,l.m.t.,I lay off the azimuth of Polaris,1° 30'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 0.5 ins.east of the mark determined by the solar.

At 7h.44m.,a.m.,l.m.t.,I set off 37°30'N.on lat.arc, 16°41'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 of the meridian established by the Polaris observation.
The solar apparatus,by p.m.and a.m.observations,defines positions for meridians,respectively about 0'26" west and 0'21" east of the meridian established by the Polaris