

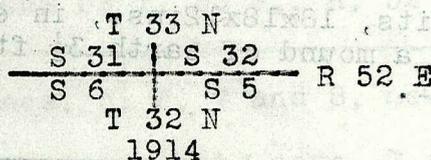
Retracement of Subdivisions of T. 33 N., R. 52 E. 11.

Surveyed by Scott P. Stewart.
 Survey commenced July 31, 1914 and executed with a Buff and Buff transit No. 8028, with a Smith solar attachment. The horizontal limb is provided with double verniers placed opposite to each other and reading to single minutes of arc; which also is the least count of the verniers of the lat. and decl. arcs.
 The instrument was approved for use in this survey by Mr. G.D.D. Kirkpatrick, Assistant Supervisor of Surveys. I examine the adjustments of the instrument and find no errors, then to test the solar apparatus by comparing its indications from solar observations made during a.m. and p.m. hours, with a meridian determined by observation on Polaris, I proceed as follows:
 At my camp, which is located in the town of Carlin, Nev. T. 33 N., R. 52 E. in sec. 27, in approximate latitude $40^{\circ} 40'$. Longitude $116^{\circ} 08' W$. I set off $40^{\circ} 40'$ on the latitude arc; $18^{\circ} 20' N$. on the decl. arc and determine a meridian with the solar at 4h. 30m. p.m., l.m.t., and mark a point in the line thus determined by a peg, driven firmly in the ground about 5 chs. N.
 July 31: At 10h. 57m. p.m., l.m.t., I observe Polaris at Eastern Elongation and mark the direction of the line thus determined by a peg driven firmly in the ground, about 5 chs. N.

Aug. 1: At 6h. 15m. a.m., l. m. t. I lay off the azimuth of Polaris $1^{\circ} 30'$ to the W. and note that this meridian practically agrees with the meridian determined July 31st. At 7h. a.m., l.m.t., I set off $40^{\circ} 40'$ on the lat. arc; $18^{\circ} 10' N$. on the decl. arc; and determine a meridian with the solar this meridian agrees with the Polaris meridian, therefore I conclude the instrument is in good adjustment.
 The magnetic bearing of the true meridian at 7h. a.m. is N. $17^{\circ} 45' W$. and the angle thus determined gives the magnetic declination $17^{\circ} 45' E$.

Steel tapes, 5 chs. long were used by both parties in all field work, together with clinometers to determine slope angles, and the reduced horizontal distance only appear in the field notes. The tapes were tested during the progress of the survey, comparisons being made with a standard tape 1 ch. long, kept and used for that purpose.

I begin at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of T. 33 N., R. 52 E., which is a stake, 2 ins. in diam., 30 ins. long, marked "S" on two faces, all other markings obliterated, trace of pits, stake lying in old mound, I remonument cor. as follows:
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground for the cor. of secs. 5, 6, 31 and 32, with brass cap mkd.,



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