Chains

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0'21" west and 0' 16" east of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 3h 30m p.m., is 17° 35'W.; the angle thus determined gives the mag. decl. 17° 35'E.

A five chain tape and clinometer was used on all measurements of this work.

June 28, 1914.

July 10, 1914: At 8h 35m a.m. l.m.t., I set off 38° 23½'N., on the lat. arc; 22° 18½'N., on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 6 and 7 N., Rs. 49 and 50E., which is a basalt stone, 12x12x11 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

Thence I run

North along the E. bdy. of the Tp., bet. secs. 31 and 36.

Over rough mts. land through medium growth of cedars and pinon pine and medium undergrowth of sage brush, mountain rush, juniper, shadscale and scattering bunch grass.

Asc.

6.10 Top of spur, 85 ft. above Tp. cor., projects SE. about 2 chs.

Desc. abruptly.

7.80 Bottom ravine, 20 ft. below top of spur, drs. S.20°E.

Asc. abruptly.

33.50 Top of spur, 180 ft. above ravine, projects SE. about 6 chs.

Desc.

38.50 Bottom ravine, 30 ft, below top of spur, drs. SE.

Asc. abruptly.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in