

West bdy. of T.11 N., R.60 E.

Chains

The solar apparatus by p.m. and a.m. observations coincide with 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 8^h 00^m a.m. is N.16° 40' W; the angle thus determined gives the magnetic declination 16° 40' E.

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

November 11, 1914.

November 23, 1914: At 9^h 46^m a.m.l.m.t., I set off 38° 45' N., on the lat. arc; 20° 15¹/₂' S., on the decl. arc; and determine a meridian with the solar at the standard cor. of Tps. 11 N., Rs. 59 and 60 E., heretofore described.

Thence I run

North, bet. secs. 31 and 36.

Over mountainous land through scattering growth of cedars and pinon pine and medium undergrowth of sage brush, shade scale and scattering bunch grass.

Descend.

5.80 Bottom of ravine, 70 ft. below Tp. cor., drs. N.80° E.

Ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground to solid rock and erect a mound of stone, 3 ft. base, 1¹/₂ ft. high, around post for ¹/₄ sec. cor., with brass cap marked

S36¹/₄ | S31

1914

from which

A pinon pine, 5 ins. dia., bears S.28° 50' E., 13 lks. dist., marked ¹/₄ S 31 BT.

A pinon pine, 12 ins. dia., bears N.52° 30' W., 60 lks. dist., marked ¹/₄ S 36 B T.

Cor. stands on S. slope of spur, 340 ft. above bottom of ravine.