

Chains

the corresponding meridian all courses of this survey are referred.

September 24, 1918: At Cor. No. 1 of this survey, at 7 h. 20 m., P.M., l.m.t., I begin to observe the eastern progress of Polaris. When the star begins to recede I mark the maximum position in azimuth on the ground by a stake, firmly set, centered with a tack, 5 chs. dist. from my station.

September 25, 1918: I lay out the azimuth of Polaris  $1^{\circ} 31'$  to the West and mark the meridian thus determined by a stake, firmly set, centered with a tack, 5.00 chs. dist., from my station. From the meridian thus established, I determine the bearing of line 1-7 of this survey as N.  $61^{\circ} 46'$  W., which agrees within  $16''$  of arc with the bearing of the same line as determined by direct solar observation as recorded above.

Mean Magnetic Declination =  $19^{\circ} 15'$  E.

RETRACEMENT

Beginning at Cor. No. 2 of H. E. Survey No. 92 (accepted) which is a granite stone, firmly set, 16 x 6 ins., showing 10 ins. above ground, mkd. 2-HES-92 on the E. face and a cross (x) on the top and witnessed by pits and a mound of earth.

Thence

S.  $61^{\circ} 46'$  E.

On a random line between Cors. 2 and 1 of H. E. Survey No. 92 (accepted).

31.86 To Cor. No. 7 of List No. 4-1413, which is a lava stone,