Chains

for latitude.

Observed vertical angle = 71° 28' 30"

From this observation I calculate the latitude of Cor. No. 1 as 41° 58' N., which agrees with other data.

June 26, 1916: At Cor. No. 1 of this survey, I observe the altitude of the sun for Azimuth.

Latitude = 41° 58' N. (From observation)

Longitude = 115° 58' 30" W. (By account from H.E.S. (No. 110.)

Observation 1

8 h. 39 m. 26 s., A. M., apparent time.

Observed altitude = 44° 48'

Horizontal angle(from the reference to right) = 102° 58'

Observation 2

8 h. 43 m. 26 s., A. M., apparent time.

Observed altitude = 45° 29'

Horizontal angle (from reference to right) = 103° 42'

From these observations I calculate the bearing of a reference object 1 mile distant from my station, as (1) N. 4° 51' 46" W. and (2) N. 4° 52' 12" W.

The mean of these is N. 4° 51' 59" W., and to the corresponding meridian all courses of this survey are referred.

Mean Magnetic Declination = 18° 45' E.

RETRACEMENT

Beginning at Cor. No. 8 of H. E. Survey No. 110 (unapproved), hereafter described, I run

Thence

S. 4° 35' W.