

200179
Compared

May 6
13

Field Notes of the Exterior &
Subdivisions of T. 22. N. R. 49 E.
N.D.M.

Survey commenced May 6th 1893
with a Schmolz Engineers transit.

At the S. E. cor of T. 22 N. R. 49 E. N.D.M.
in latitude 40° N and longitude $117^{\circ} \frac{1}{2}$ W.
Observed Polaris at $9^{\circ} 10''$ p.m. by my watch
which is right by local mean time and
find the magnetic bearing of the star is
 $N 70^{\circ} 3' W$.

Correct local mean time of observation	^{n.m.} 9. 10.
Tabular time U.C. of Polaris May 1	22. 35. 5.
Reduction for 4 days	16. 0.
Local mean time U.C. of Polaris May 5	22. 19. 5.
Which taken from time of observation	
Leaves Hour Angle of Polaris.	10. 50. 5.
Azimuth of Polaris for lat. 40°	<u>$0^{\circ} 27' N$</u>
North End of needle	$17^{\circ} 03' E$
The Difference is the Variation	<u>$16^{\circ} 36' E$</u>

Lay off the azimuth to the East and drive a picket
on the true meridian as determined 4 chs N of
the cor.

The mean Variation is $16^{\circ} 36' E$