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Subdivisions of T. 1 N. R. 1 E.

Chains

Survey commenced Nov. 30th 1891 with a T. J. Randolph telescope compass having a 6 inch needle, a revolving compass box and a Variation arc reading to single minutes, with an attachment for measuring angles independent of the needle

Preliminary to commencing the subdivision of this township, I go to the cor. of R. 1 and 2 E on the base line, which is a patent U. S. land monument, firmly set, 15 inches above ground properly marked. At this cor. I verify the adjustments of my instrument and find them to be correct.

Having set the instrument over the center of the township corner, I direct the telescope to the Star Polaris and at 2:45 P.M. local mean time of western elongation I find its magnetic bearing to be N. 13° 51' W

The N End of needle	13° 51' E
Azimuth of Polaris	1° 34' W
The difference is the Va	12° 17' E

At 8 o'clock Nov. 30 I find mag. bearing to be 12° 20' W. and after allowing 3' for diurnal change (See table pag 55 of manual) I find the mean declination to be 12° 17' E

From the township corner I run north on the east boundary of section 36

Va 12° 20' E

40.00 ¼ sec cor found on my line

80.00 Find the cor. to secs 25, 30, 31 and 36, 2 lks. E of my line. The bearing of the Range line is therefore N. E. I now return to the S. E. cor. of the Township and again take the bearing of the range line which I find to be 12° 19' W. I now run W. on S boundary of sec 36

40.06 Find ¼ sec cor 2 lks N of my line. and at Va 12° 20' E

80.15 Find cor. to secs 1, 2, 35 and 36, 3 lks N of my line

The true course is therefore N 89° 57' W.

With the above named true bearings the subdivision lines of the eastern tier of sections will be run as required by the printed instructions