

Chains

May 15th 1911.

I begin at the $\frac{1}{4}$ sec. cor. of Secs. 31 and 6, between Tps. 38 and 39 N., R. 26 E., established by me last year.

At this corner at 4 h 3.1 m A.M., 1.m.t., I observe Polaris at Eastern Elongation in accordance with the instructions in the Manual and mark the line thus determined by a tack driven in a wooden peg set in the ground 5 chs. north of my station.

May 16th. At 6:00 A.M., 1.m.t., I lay off the Azimuth of Polaris $1^{\circ}33'$ to the west and mark the true meridian thus determined by a tack driven in a wooden peg set firmly in the ground west of the point established last night. The magnetic bearing of said true meridian is N. $17^{\circ}45'W.$, which gives a magnetic declination of $17^{\circ}45'E.$ At this corner I lay off from the meridian an angle of 90° from North to West and run West on a true line between sections 31 and 6.

Descending.

- 4.05 Draw, 25 lks. wide, 30 ft. below $\frac{1}{4}$ sec. cor. course S. $25^{\circ}30'W.$
- 4.80 Top of spur 30 ft. above draw, bears N. and S. Desc.
- 6.00 Draw, 15 lks. wide, 25 ft. below spur, course South. Asc.
- 6.60 Spur bears S. $28^{\circ}W.$ and N. $28^{\circ}E.$, desc.
- 7.60 Draw, 50 lks. wide, 40 ft. below top of spur, course S. $28^{\circ}W.$ asc.
- 12.00 Top of spur 60 ft. above draw, bears N. and S., desc.
- 16.60 Gully 2 chs. wide, 80 ft. below top of spur, course S. Ascend.
- 21.20 Top of spur 70 ft. below gully, bears N. and S. Desc.
- 24.40 Gully 1 ch. 50 lks. wide, 70 ft. below top of spur, course S. Asc.
- 28.00 Top of spur 40 ft. above gully, bears S. $33^{\circ}W.$ and N. $33^{\circ}E.$ Desc.
- 32.90 Gully, 2 chs. wide 100 ft. below top of spur, course S. $12^{\circ}W.$ Asc.
- 42.65 Intersect the East boundary of Tp. 38 N. R. 25 E., 1 ch. 42