

SURVEY No. 3550.

The ground embraced in this claim is, after removing a few inches of surface dirt, either a hard cement or iron rock, both of which are very hard to drill and break very poorly in blasting. No other improvements.

 INSTRUMENT.

This survey was made with an A. Leitz light mountain and # mining transit provided with a Saegmuller Solar attachment. The courses were deflected from the true meridian as determined by solar observation.

The distances were measured with 50ft. and 500ft. steel tapes.

 REPORT.

The corner to Twps. 17 and 18 N., Ranges 22 and 23 E. M. D. B. and M. is marked by a large stone with six notches chiseled on the N. S. E. and W. edges and surrounded by a mound of stone. The 1/4 Sec. cor. on the West Boundary of Sec. 31 T. 18 N., R. 23 E. is marked with a volcanic rock 24x10x8 ins. chiseled 1/4 on the West face and set in a mound of stone.

Dec. 29, 1906 at the Township corner I found by solar ~~obs~~ observation the latitude of that point to be $39^{\circ}24'N$. which is the latitude noted at that point on the plat of Twp. 18.

Dec. 29, 1906, I found by solar observation at the Twp. the variation of the needle to be $17^{\circ}22'E$. and at the same time I determined the course of the West line of the S. W. 1/4 of Sec. 31 T. 18 N., R. 23 E. to be $N. 0^{\circ}4'E$. and the length of that line to be 2641.44ft.

The above observations and measurement were made when making Survey No. 2892.

The lines of this survey were deflected from the true