

No. 4270. The courses were deflected from the true meridian as determined by observation on Polaris at eastern elongation. The distances were measured with 100-ft. and 500-ft. steel tapes.

REPORT.

The lode line of this claim was run directly upon the ground, and the several corners established by means of offsets from the lode line. All tie lines (except the tie to Dupont Peak) were run either directly upon the ground or by traverses, run upon the ground and submitted in a separate report herewith. The tie to Dupont Peak was determined by triangulation, using as a base line the tie from Cor. No. 1 of this lode to N. E. Cor. Copper Carbonate lode, unsurveyed. The bearings from either end of this base line to Dupont Peak were turned direct upon the ground, as follows;-- From Cor. No. 1, Crystal lode, Dupont Peak bears $S.35^{\circ}22'E.$, and from N. E. Cor. Copper Carbonate lode, unsurveyed, said peak bears $S.15^{\circ}24'E.$

The S. E. Cor. Sec. 24, T. 27 S., R. 64 E., M.D.M., is a granite rock, $7 \times 10 \times 15$ ins., chiseled 2 notches S. and 4 notches N. It was found in the top of an old location monument, and had evidently been moved, although it could not have been moved far, as it is almost on the extreme top of a very steep hill. To locate this corner, I retraced 10 miles of section lines, by stadia, as follows; Beginning at N. W. Cor. Sec. 36, T. 26 S., R. 65 E., M.D.M., thence south one mile; thence west three miles; thence south four miles; thence west two miles to corner as described. From the time I left the north boundary of T. 27 S., R. 65 E., I failed to find a single corner other than the one to which connection is given. After finding this corner, I made a further search for two miles in each cardinal direction from it, for other corners from which its position might be checked, but without result. I have, therefore, retraced more than 16 miles of the lines of the public survey in an effort to locate and identify this corner, and check its position. In all of this work, and in previous unofficial work in the northeastern portion of this township, I have been wholly unable to find other section corners; and, furthermore, I have found that the topography of this township does not agree even in the most general way with that shown upon the official plat of the public land survey. This also applies to Secs. 12, 13, 24 and 25, T. 27 S., R. 64 E. Large washes and gulches shown upon these plats have no existence whatever in