

Retracement of the West Bdy. of T. 42 N., R. 18 E.
Nevada-California State Line.

1

Chains

Note.- A part of these surveys of the exteriors and sub-division of T. 42 N., R. 18 E., were made by James D. Archer, U. S. Transitman, in 1911, and a part by Walter E. Hoffman, U. S. Surveyor, in 1914. The notes of each mile show by whom that mile was run.

Surveyed by Archer.

Survey commenced October 1, 1911, and executed with a C. L. Berger & Sons mining transit, No. 2, the horizontal limb being provided with two opposite verniers reading to a single minute of arc.

I examine the adjustments of the transit, and correct the collimation errors. I proceed as follows: At the cor. of mile post 33, on the Calif-Nev. State Line, which is the W. bdy. of T. 42 N., R. 18 E., in latitude $41^{\circ} 27'$ N., longitude 120° W., at 6h. 54.6m. p. m., l. m. t., I observe Polaris at eastern elongation, and mark the line thus determined by a tack driven in a wooden peg set in the ground, 5.00 chs. N. of my station.

October 1, 1911.

October 2: At 8:00 a. m., l. 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 firmly set in the ground, west of the point established last night. The magnetic bearing of said true meridian is N. $18^{\circ} 35'$ W., which gives the magnetic declination $18^{\circ} 35'$ E., and run

North, on a blank line, along the Calif.-Nev. State Line, which is the W. bdy. of T. 42 N., R. 18 E.

Over level desert.

41.00 Road from Eagleville, Calif., to Long Valley, Nev., bears N. 30° W. and S. 30° E.

42.00 Begin ascent.

80.25 Fall W. of 32nd mile post, 20 lks. dist.

The course of this line is therefore N. $0^{\circ} 9'$ E., and the length 80.25 chs.