

N. of my station,

July 15th 1895

July 16th 1895 at 8th A.M. I lay off the azimuth of Polaris 1° 40' to the West and mark the true meridian thus determined by cutting a mark on a stone firmly set in the ground West of the point established last night. The magnetic bearing of said true meridian is N 16° 43' W which reduced by the table on page 100 of the Manual gives the mean magnetic declination 16° 37' East.

I lay off from the true meridian an angle of 90° from North to West and return

West on the tangent, S. of Sec. 33. over stony ground.

Ascending abruptly the West side of Lost Creek Canyon. East S. 55° W. 75 ft. Bottom of ravine bears S 45° E. 700 ft. Begin steep ascent. Top of steep ascent bears S 30° E 730 ft. 200 ft. above the corner.

Top of ridge bears S 30° E. 730 ft. Begin to descend along ground slope S.

Bottom of ravine 50 ft deep bears S 45° E. 730 ft. above ravine. Top of ridge bears S 40° E. 730 ft. above ravine. Ascend over ground sloping S.

Foot of steep ascent bears N 45° S. Top of high ridge bearing N 75° S between Lost Cr. & Cottonwood Canyons. Begin to descend W. slope.

Difference between measurements of 40.00 chs. by two sets of chains is 1 ch.; position of middle point.

By 1st set, 39.99 1/2 chs. By 2nd set, 40.00 1/2 chs.; the mean of which is 40.00 chs. Set quartile boulder stone 16 x 13 x 9 ins. 10 ins. in the ground for standard 1/4 sec. cor., marked S. C. 1/4 on N. side; and raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Feels impracticable.

Bottom of ravine bears S 10° W. N. 10° E. 150 ft. below the cor. Begin to ascend N. side of ravine.

Top of ascent. Begin 50 ft. above bottom of ravine. Begin to descend gently over ground sloping S.

Begin abrupt descent bears N. 45° S. Bottom of ravine 20 ft deep bears N 45° S. Begin steep ascent on W. side of ravine.

Top of ridge 80 ft above bottom of ravine bears N 45° S. Begin steep descent.

Foot of descent at bottom of Big Cottonwood Canyon bears S. 30° E. N. 30° W. in dry bed of creek, draining S 35° E. Begin to ascend W. side of Canon.

Difference between measurements of 80.00 chs. by two sets of chains is 2 chs.; position of middle point.

By 1st set, 79.99 1/2 chs. By 2nd set, 80.00 1/2 chs.; the mean of which is 80.00 chs. Set from the tangent.

Set quartile boulder stone 13 x 8 x 6 ins 12 ins. in the ground for standard cor. of Sec. 32 and 33. marked S. C. on N. side with 4 grooves on E. and 2 grooves on W. sides, from which a cottonwood tree 14 ins diam. bears N 39° E.

68 lbs. dist. marked T. S. N. R. 4 E. S. 33. B. T. A cottonwood tree 8 ins diam bears N 32 1/2 W. 78 lbs dist. marked T. S. N. R. 4 E. S. 32. B. T.

80.00