

INDEPENDENT RESURVEY OF T. 41 N., R. 21 E.

1:30" fast of standard 120° meridian time as determined by radio signals on September 22nd, I make an hour angle observation on Polaris east of the meridian, making four observations, two each with the telescope in direct and reversed positions, and reading the mean horizontal angle from a rock point on the skyline about six miles distant in the direction N-W. to Polaris:

L.M.T. of obsn. - - - - - 4h 27.7m p.m.

Hour angle of Polaris at obsn. - - - 8h 59.3m

Azimuth of Polaris at obsn. - - - - 0° 58.9' E.

Mean horizontal angle, rock to Polaris - - - - 3° 18' 15"

True bearing of rock - - - - - N.4° 17' E.

The bearings of the adjacent section lines are acceptably verified thru this observation.

The measurements were made with a Lallie steel tape, 80 chs. in length, graduated every link for the first 100 lks., and the balance at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope, and the vertical angle of each interval was ascertained by clinometers in good adjustment; the horizontal equivalents are entered in the field note record.

ESTABLISHMENT OF THE STANDARD CORNERS AND
A RETRACEMENT OF THE EIGHTH STANDARD PARALLEL NORTH
THRU RANGE 21 EAST AS DEPENDENTLY RESURVEYED BY
REPPERT AND MERCER IN 1917 UNDER GROUP No. 48 Nevada.

Random Line.

Beginning at the standard cor. of Tps. 41 N., Rs. 20 and 21 E., hereinafter described.

N. 88°56'E., along the S. bdy. of T. 41 N., R. 21 E., with a transit line describing the tangent from which offsets are measured to the old corners and at distances as are, hereinafter noted,

471.01 Intersect a N. and S. line 31.5 lks. S. of the standard cor. of Tps. 41 N., Rs. 21 and 22 E., hereinafter described. A computation indicates that all corners are on the true line and that said true line bears N.88°56'E.

True Line.

The standard cor. of Tps. 41 N., Rs. 21 and 22 E. is an iron post, 3 ins. diam., marked and witnessed as described in the official record.

Thence from cor.,

S.88°56'W., along the S. bdy. of sec. 36, T. 41 N., R. 21 E., over gently rolling rocky bench land thru medium dense small sagebrush and scattering shadscale undergrowth.
Desc. gentle SW. slope.

19.00 Small shallow draw, course S.30°E., asc. 130 ft. over rocky E. slope to ridge.

39.29 Intersect the old standard $\frac{1}{4}$ sec. cor. of sec. 36, which is a 1 in. iron post, marked and witnessed as described in the official record. I destroy this corner.