

INDEPENDENT RESURVEY OF SUBDIVISION, T. 21 S., R. 65 E.

The subdivisional survey of T. 21 S., R. 65 E., was executed with Buff and Buff light mountain transits Nos. 9978 and 9797, used by Andrew Nelson, U.S. Cadastral Engineer, and Robert C. Yundt, U.S. Surveyor, respectively. The instruments are equipt with Smith solar attachments and full vertical circles. The horizontal limbs are each provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs and vertical circles. The instruments were in good adjustment, having been tested and found free from appreciable error prior to the beginning of this survey. The instruments were approved for use on this survey by the District Cadastral Engineer for Utah, ^{and Nevada} in assignment instructions dated May 13, 1931, issued to Andrew Nelson, U.S. Cadastral Engineer, and supplemental assignment instructions dated April 8, 1931, issued to Robert C. Yundt, U.S. Surveyor.

The measurements are made with Lallie steel ribbon tapes eight chains in length. Each tape is graduated every link for the first 100 links and thereafter at intervals of 10 links. The tapes were tested by comparison with a Lufkin standard steel tape and found correct. All measurements were made on the slope; the vertical angle determined with improved type K. & E. clinometers in good adjustment, and the slope measurements properly reduced to true horizontal distances.

In this survey the solar apparatus were not used; all controlling meridians were established by observations upon Polaris or by a series of altitude observations on the sun as shown in these notes. The true bearing of the lines were deflected from the meridians thus determined by repetition of angles and carried forward by transit lines, taking the mean of direct and reversed sights at each instrument station.

INDEPENDENT RESURVEY OF SUBDIVISION, T. 21 S., R. 65 E.

INDEPENDENT RESURVEY, SUPERSEDING SURVEYS
EXECUTED BY T. A. MAGEE, U.S. DEPUTY SURVEYOR
IN 1882.

During the progress of this survey, none of the original corners were found.

Commence the subdivisional survey of T. 21 S., R. 65 E., at the cor. of secs. 25, 30, 31, and 36, which is an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official records, "Book B" of this group.

East, on auxiliary base line, bet. secs. 30 and 31.

Descend gradual SE. slope of broken land, through short scattered undergrowth.

- 3.70 Wash, 20 lks. wide, 3 ft. deep, in draw, 20 ft. below cor., drains S., 2.00 chs. dist. to junction with draw draining SE.; ascend abrupt rocky W. slope.
- 12.80 Top of high point on spur, 110 ft. above draw, projects S., about 6.00 chs. dist. to end; descend abrupt E. slope.
- 30.00 Base of abrupt descent, bears N. and S.; descend gradual S. slope.