

INDEPENDENT RESURVEY WEST BOUNDARY OF T.21 S., R.65 E.

This survey was executed with W. & L.E. Gurley transit No. 262669 and Buff and Buff transit No. 9222 used by Carl S. Swanholm, U. S. Cadastral Engineer, Buff and Buff transit No. 9978 used by Andrew Nelson, U. S. Cadastral Engineer, and Buff and Buff transit No. 9797 used by Robert C. Yundt, U. S. Surveyor. These instruments, the property of the General Land Office are equipt with Smith solar attachment, and full vertical circle; the horizontal limb of each instrument is 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 condition and, having been placed in satisfactory adjustment prior to beginning the survey and tested and found free from appreciable error, were approved by the district cadastral engineer on January 21, April 8, and May 13, 1931.

The measurements are made with Lallie steel ribbon tapes eight chains in length; each tape is graduated every link for the first 100 lks. and thereafter at intervals of 10 lks. 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 was not used; all controlling meridians were established by observations upon Polaris or by a series of altitude observations of 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 line taking the mean of direct and reversed sights at each instrument station.

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

Beginning at the cor. of Tps. 21 and 22 S., Rs. 64 and 65 E., which is an iron post, 3 ins. in dia., firmly set, and marked and witnessed as described in the official record; latitude $36^{\circ}05'N.$, longitude $114^{\circ}46'W.$, and deflecting from a true meridian along the N. bdy. of T.22 S., R.64 E., I run

North, bet. secs. 31 and 36.

Descend into Las Vegas Wash, over broken land through creosote and chaparral undergrowth.

- 2.70 Break in rim of wash, bears $N.70^{\circ}W.$ and $S.70^{\circ}E.$
- 10.75 Enter bottom of Las Vegas Wash, bears E. and W., wash drains E.; thence across wash.
- 13.35 Road in wash, bears E. and W.