TOWNSHIP 25 SOUTH, RANGE 63 EAST

These field notes are those of an independent resurvey of the east and west boundaries and subdivisional lines of Township 25 South, Range 63 East, of the Mount Diablo Meridian, superseding the original survey of this township executed by T. A. Magee, Deputy Surveyor, in 1882.

Searches were made for corners established by the original survey of the township. Old stone corner monuments were found along the east boundary of the township, and the position of each, with respect to the corresponding corner of the resurvey, is recorded in these field notes. I removed the official marks from these stone monuments. None of the other corners could be found.

Survey commenced May 8, 1940, and executed with W. & L. E. Gurley solar transit No. 262684 used by Wilson McConkie, Junior Cadastral Engineer, and Young and Sons solar transit No. 8518, used by Alvyn C. Alberga, Public Land Surveyor. The instruments are property of the General Land Office, and are equipped with Smith solar attachments and full vertical circles; the horizontal limbs are provided with two double verniers placed opposite to each other, and read to single minutes of arc, which is also the least count of the verniers of the vertical circles, and of the latitude and declination arcs. The instruments were approved for use on this survey by the District Cadastral Engineer for Utah, conditional upon satisfactory field tests. The instruments were in good condition at the commencement of this survey, and were tested and found free from any appreciable error.

The country over which the lines were extended being open, the solar attachments were not used. All azimuths in this record are referred to true meridians determined during the progress of the survey by Polaris observations; the bearings of the lines were determined by deflection angles, and the lines carried forward by fore and back sights.

The measurements were made with Lallie steel tapes, 5 and 8 chains in length, 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, one chain long, and found to be correct. The measurements were made on the slope, and the vertical angle of each interval was ascertained by clinometers in good adjustment. The slope distances were properly reduced to the true horizontal equivalents which appear in this field note record.

The geographic position of the SE. corner of the township, as computed from data furnished with the special instructions and ties made to three U. S. Coast and Geodetic Survey triangulation stations during the survey of other townships of this group and adjoining Group No. 239, is as follows: latitude 35°43'15"N., and longitude 114°52'56" W.

March 20, 1941, at a point on top of spur 6 chs. N. of the cor. of Tps. 25 and 26 S.,Rs. 63 and 64 E., approximate latitude 35°43' N., and longitude 114°53'W., at 7h 36m 25s a.m. by my watch, which reads correct 120th meridian standard time, as determined by comparison with radio time signals, I make an hour angle observation on Polaris E. of the meridian. I make two sights each with the telescope in direct and reversed positions, reading the horizontal deflection angle east to Polaris, from a flag about 40 chs. N.

Mean horizontal deflection angle from flag, E. to Polaris	1° 15.0'
Azimuth of Polaris	1° 15.0' E.
True bearing to flag	North

I find this point to be North of the cor. of Tps. 25 and 26 S., Rs. 63 and 64 E.

The mean observed magnetic declination is 15½°E.

INDEPENDENT RESURVEY OF E. BDY. OF T. 25 S.,R. 63 E.

Independent Resurvey, superseding the survey executed by T. A. Magee, Deputy Surveyor, in 1882.

Beginning at the cor. of Tps. 25 and 26 S.,Rs. 63 and 64 E., which is an iron post, 3 ins. diam., firmly set, marked and witnessed as described in the field notes of T. 26 S.,R. 63 E., of this group.

U. S. GOVERNMENT PRINTING OFFICE 6—8155