

T. 27 S., R. 63 E.

Chains

Survey commenced February 28, 1940 and executed with W. & L. E. Gurley solar transit No. 262684 and Young and Sons solar transit No. 8518. These instruments were approved for use on this survey in assignment instructions dated February 12, 1940. For detailed description of instruments and method of measurement, refer to the field notes of T. 28 S., R. 63 E.

The following meridian observation is one of many made during the progress of the survey.

February 28, 1940 at the cor. of Twps. 27 and 28 S., Rs. 63 and 64 E., in latitude 35°32.8' N., and longitude 114°52.9' W., as computed from U.S.C. & G. station "Ireteba" with a published latitude and longitude of 35°35'40.624" N., and 114°49'41.813" W., respectively, at 8h 49m a.m., standard 120° meridian time, I observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, and reading the horizontal angles from the cairn at station "Ireteba" on the skyline about four miles distant, to the left to Polaris.

Azimuth of Polaris at eastern elongation ..... 1° 14' 56"  
 Mean deflection angle to "Ireteba" ..... 41° 05' 15"

True bearing to "Ireteba" Station..... N. 42° 20' 11" E.

For the initial azimuth at the above Twp. cor., I turn an angle of 42°20' to the left; after six repetitions, I find the multiple angle to be 254° 01' and the azimuth as turned is North.

The magnetic declination at this corner is 16½° E.

Subsequent meridian observations, by both Polaris and altitude observations upon the sun, verified and maintained correct azimuth for all lines.

INDEPENDENT RESURVEY OF THE EAST BOUNDARY OF T. 27 S., R. 63 E.

Superseding the survey executed by W. H. Myrick, Deputy Surveyor, in May, 1883, under Contract No. 145, dated July 11, 1882.

From the cor. of Twps. 27 and 28 S., Rs. 63 and 64 E., an iron post, 3 ins. diam., firmly set, marked and witnessed as described in the field notes of the resurvey of T. 28 S., R. 63 E.

Diligent search was made for all original corners along this boundary. All corners found are described and a connection entered in the record after which all trace of the original corner was destroyed.

North, on true line, along the E. bdy. of Sec. 36.

Over gently rolling lands thru medium dense undergrowth.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground with a granite rock, 8x5x3 ins., mkd. X, deposited at the base, for ¼ sec. cor. of sec. 36 only, with brass cap mkd.

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raise a mound

of stone, 2 ft. base, 1½ ft. high, W. of cor.

64.50

Shallow dry wash, 20 lks. wide, course NW.

68.10

Shallow dry wash, 30 lks. wide, course N. 80° W.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with a granite rock, 9x6x4 ins., mkd. X, deposited at the base, for cor. of secs. 25 and 36 only, with brass cap mkd.