

INDEPENDENT RESURVEY OF EAST BOUNDARY OF T. 20 S., R. 64 E.

Chains

gypsum outcroppings; 3rd rate.
 Timber, none.
 Undergrowth, creosote brush and mesquite.
 Poor grazing land.

Jan. 18, 1938: At this cor., approximate latitude $36^{\circ}14.7'$ N., and approximate longitude $114^{\circ}46.5'$ W., to verify the alignment of the boundary, at 11h 25m 50s p.m. by my watch which reads correct 120th meridian standard time, as determined by comparison with radio time signals, I make an observation upon Polaris at western elongation; making two readings each with the telescope in direct and reversed positions, reading the horizontal angle from a flag on the line extended north about 12 chs., west to Polaris.

Mean horizontal angle from flag
 west to Polaris ----- $1^{\circ}16.5'$
 Azimuth of Polaris ----- $1^{\circ}16.2'$
 Reduced bearing of line ----- N. $0^{\circ}00.3'$ E.

INDEPENDENT RESURVEY OF WEST BOUNDARY OF T. 20 S., R. 64 E.

Independent Resurvey superseding the survey executed
 by W. H. Myrick, U.S. Deputy Surveyor, in 1882.

Jan. 18, 1938: At the standard cor. of Tps. 20 S., Rs. 63 and 64 E., an iron post, 3 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record; approximate latitude $36^{\circ}09.5'$ N., and approximate longitude $114^{\circ}51.7'$ W., at 11h 26m 10s p.m. by my watch which reads correct 120th meridian standard time, as determined by comparison with radio time signals, I make an observation upon Polaris at western elongation, making four observations, 2 each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground 10 chs. north.

Azimuth of Polaris at western elongation ----- $1^{\circ}16.1'$

Jan. 19: After sunrise I lay off the azimuth of Polaris, $1^{\circ}16.1'$ to the east and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 10 chs. north. I make 6 repetitions of the angle, the multiple angle reads $7^{\circ}36.5'$.

Thence

North, bet. secs. 31 and 36, by projection of the meridian determined by Polaris observation.

Over nearly level desert land, through scattering undergrowth.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.

↑
 S 36 | S 31
 1938

raise a mound
 of stone, 3 ft. base, 2 ft. high, W. of cor.