

FEET

This survey was made with a Wild T1-A Theodolite transit, horizontal and vertical angles read direct to 20 seconds and can be estimated to 5 seconds. The instrument was in good condition at the time of the survey and all adjustments were in good order.

The direction of lines of this survey were determined by sustained angulation from the meridian determined by the following observation.

August 11, 1972, at Cor. No. 2 of the Golden Amythest #2 lode, in latitude $40^{\circ}58'16''$ N., and longitude $117^{\circ}56'$ W., I made a series of six altitude observations on the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from corner No. 1 of the Golden Amythest lode to the sun

Mean time of observation, 120th
meridian standard time $8^{\text{h}} 23^{\text{m}} 41^{\text{s}}$
Declination of sun at mean-
time of observation $15^{\circ} 09' 38.1''$
Mean observed vertical angle
to sun's center (uncorrected) $37^{\circ}23'35''$
Mean horizontal angle from
reference point to sun's
center $124^{\circ}51'43''$ right
True bearing of reference
line N. $21^{\circ}37'04''$ W.

The lines were measured with a steel tape 300 feet long with an extra foot before the zero and at each 100 feet graduated into 10ths and 100ths, the remainder of the tape at 1 foot intervals. The tape was compared with an invar tape before the work and found to be accurate.

All lines and connections were run by direct methods.

The magnetic declinations observed at each corner of the survey gave a uniform value of $18^{\circ}00'$ E.

At Cor. No. 1 of the Golden Amythest lode, identical with Cor. No. 2 of the Golden Amythest #1 lode, Cor. No. 2 of the Golden Amythest #3 lode and Cor. No. 1 of the Amythest #4 lode, all of this survey.

Set an iron pipe, 36 ins. long, 1 in. diam., 12 ins. in the ground to bed rock, in a mound of rock, with brass cap mkd. G.A.-1-G.A.-1-2-G.A.3-2-A4-1.4902; from which

The Cor. of sections 21, 22, 27 and 28, T. 36 N., R. 36 E., M.D.M. bears N. $76^{\circ}33'35''$ E., 2304.57 feet dist.; a scribed post, originally set in the ground, now supported by an iron pipe, scribing not legible.