

## Mineral Survey No. 5123, Nevada

FEET

This survey was made with a Directional Theodolite, Serial No 10771, with horizontal and vertical circles both read through an optical microscope; an index line is operated by a micrometer drum which reads both horizontal and vertical angles directly to 1" of arc. This instrument was in good condition at the time of the survey and all adjustments were in good order.

October 13, 1994, at control point "BASALT" in latitude 39°14'20" N. and longitude 118°46'56" W., elev. 4540 ft. above sea level, and temperature 60° F. Make a series of six azimuth observations of the sun, three each with the telescope in direct and reversed position, and reading the horizontal angle from Cor. No. 2 of the POPCORN No.1 lode to the sun.

Mean time of observation, 120th meridian standard time	= 3:21:25: P.M.
Declination of the sun at mean time of observation	= 7°58'00" S.
Mean observed zenith angle to the sun's center	= 69°17'25"
Mean horizontal angle from Cor. No. 2 of the POPCORN Lode to sun's center	= 176°53'30"
True bearing to Cor. No. 2 of the POPCORN No.1 lode	= N. 63°08'53"E.

At Cor. No. 2 of the POPCORN No.1 lode determine a mean horizontal angle from control point "BASALT" to Cor. No. 2 of the POPCORN No.2 lode, of 26°51'07", measured to the right and a distance of 1200.00 ft.

The lines were measured with a Benchmark Surveyor III-X electronic distance meter, Serial No. 10771 with a specified accuracy of +/- (5MM + 5PPM). The electronic distance meter was in good condition at the time of the survey and all adjustments were in good order.

The latitude and longitude of Cor. No. 2 of the POPCORN No.1 lode is at 39°14'30" N. and 118°46'31" W. as calculated from control point "BASALT".

The magnetic declination observed at each corner of the survey gave a uniform value of 17°00' E.

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 POPCORN NO.1 LODE
 

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At Cor. No. 1 of the POPCORN No.1 lode, identical with Cor. No. 1 of the POPCORN No.2 lode of this survey.

Excavate and set a 1 in. diam. aluminum shaft 20 ins. long, 14 ins. in the ground, pour in place a concrete collar 12 ins. approx. 12 ins. thick and 12 ins. diam., surrounded by a mound of stone to top, 3 $\frac{1}{2}$  ft. base, with 3 $\frac{1}{4}$  in. diam. aluminum cap mkd. 1 PC 2 1 PC 1 USMS 5123; from which