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Mineral Survey No. 5064

FEET

This survey was made with a Hewlett-Packard Electronic TotalStation, Model No. 3820A, Serial No. 1650A00201, which utilizes electronic horizontal and vertical circles that display measured horizontal and zenith angles directly in degrees, minutes, and seconds. All lines of this survey were measured with this instrument which uses a laser beam to measure the slope dist. from the instrument toward a reflector located at the point to be measured. The slope dist. is reduced to hor. dist. within the instrument by an electronic computing device and displays the hor. dist. directly to the nearest thousandth of a ft. The instrument was tested and calibrated on a base line of known length before and after this survey was completed and found to be in good adjustment during the time that this survey was executed.

Bearings referred to in this record were determined by the average of two hor. angle measurements, one with the telescope in the dir. position, and one with the telescope in the rev. position. These angles were referred to the meridian by the following observations:

November 23, 1991 at Cor. No. 1 of the CAL #122 lode, at latitude 41°23'51.3" N., and longitude 116°00'55.7" W., elevation approximately 7050 ft. above sea level, barometric pressure of 21.6 ins. of mercury, and temperature 30° F., make a series of eight observations on the sun for azimuth at approximately equal time intervals, four each with the telescope in the dir. position and rev. position, observing the horizontal angle right from Cor. No. 2 of the CAL #122 lode and the zenith angle to the center of the sun using a Roelofs Solar Prism.

Mean time of observation (120th meridian (P.S.T.)	= 9:31:12.3 A.M.
Declination of the sun at mean time of observation	= S. 20°20'30.6"
Mean observed zenith angle to the sun's center	= 67°36'48.0"
Mean horizontal angle right from Cor. No. 2 of the CAL #122 lode to the sun's center	= 59°13'59.4"
True bearing to Cor. No. 2 of the CAL #122 lode	= S. 89°29'55" E.

All lines and connections of this survey were run by direct methods except as noted.

The magnetic declination observed at each cor. gave a uniform value of 16°00' E.

H #3 LODE

At Cor. No. 1 of the H #3 lode, identical with Cor. No. 1 of the H #4 lode, Cor. No. 1 of the H #9 lode, and Cor. No. 1 of the H #8 lode, all of this survey.

Set an iron post, 24 ins. long, 1½ ins. diam., 19 ins. in the ground, with a 3¼ ins. diam. aluminum cap mkd. H3-1-H4-1-H8-1-H9-1-5064-1991, from which