

Feet

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Mineral Survey No. 4718 was made with a C.L. Berger & Sons Transit No. 8173, with horizontal limb $5\frac{1}{2}$ ins. diam., having two double opposite verniers, and full vertical circle $4\frac{3}{4}$ ins. diam., having one double vernier; the verniers read to one minute of arc. The instrument was in good condition at the time of the survey and all adjustments were in good order. An upper culmination observation of Polaris for latitude and an a.m. altitude observation of the sun for time and azimuth were taken at the points of beginning. The Solar observation for azimuth, being used solely as a check on a previous meridian determination by a western elongation observation on Polaris, the details of which observations are shown in the calculation sheets herewith submitted for examination. All azimuths in this record are referred to the true meridian thus determined, by the method of deflection angles and calculated courses.

The lines were measured with Lufkin Steel tapes, 100 feet and 300 feet in length, graduated every foot with the end feet graduated to tenths and hundredths; both tapes were new and unbroken and guaranteed accurate by the makers, at the time of beginning the survey.

All lines and connections of this survey were run by direct methods where the lines are accessible; the inaccessible lines were run by traverse methods, as shown by the calculation sheets herewith submitted.

The magnetic variation observed at each corner of the survey gave a uniform value of $18^{\circ} 08' E.$

GLORIA FRACTION NO. 1 LODGE.
Beginning at Cor. No. 1 of the Gloria Fraction No. 1 Lode

A painted pine post, 4 ft. long, 4 ins. square, set 24 ins. in the ground and surrounded by a mound of stone and earth which I scribed G.F. 1-1-4718; from which

The Cor. of Secs. 22, 23, 26 and 27, T. 12 N., R. 36 E., M.D.B. & M., bears $N 7^{\circ} 57' 20'' W,$ 5156.24 ft. dist.; a stone firmly set, 8 x 10 x 18 ins. above ground, marked with two chisel marks on the east side and two chisel marks on the south side.

On easterly side line North Extension Lode, unsurveyed.

Thence $S. 67^{\circ} 41' E.$

33.23 Cor. No. 1 of the Gloria Extension No. 5 Lode, of this survey.

600.0 Cor. No. 2-3-4. A painted pine post, 4 ft. long, 4 ins. square, set 24 ins. in the ground and surrounded by a mound of stone and earth, which I scribed G.F. 1-2-4718.

Thence $S. 25^{\circ} 48' W.$

520.81 Intersect line 3-4 Gloria Extension No. 5 Lode which is identical with line 1-2 Gloria Extension No. 4 Lode both of this survey.

727.0 Bottom of ravine draining $N. 75^{\circ} W.$

745.55 Intersect line 4-1 Gloria Extension No. 4 Lode which is also Cor. No. 1 Florence Lode both of this survey.

865.0 Auto road along bottom of Granite Canyon bears $N. 60^{\circ} W.,$ and $S. 60^{\circ} E.,$ canyon drains $N 60^{\circ} W.$

1345.55 Cor. No. 6 of the Florence Lode of this survey.