

SURVEY NO. 4728.

Feet

-1-

Mineral Survey No. 4728 was made with a C.L. Berger & Sons transit, No. 15052, with horizontal limb 5 1/8 ins. diam., having two double opposite verniers reading to thirty seconds of arc, and full vertical circle 5 ins. diam., having one double vernier reading 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 A.M. altitude observation of the sun for time, an upper culmination observation of Polaris for latitude and an eastern elongation observation of Polaris for azimuth were made at the beginning, the details of which observations are shown in calculation sheets herewith submitted for examination. All azimuths in this record are referred to the true meridian thus determined, by the method of right turned angles and calculated courses.

The lines were measured with a Lufkin steel tape 300 feet in length, graduated every foot with the first and last feet graduated to tenths and hundredths; and a Lufkin steel tape 100 feet in length, graduated every foot with the first and last feet graduated to tenths and hundredths; both tapes were in good condition and found correct by comparison at the beginning of the survey.

All lines and connections of this survey were run by direct methods where feasible, others 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°30'E.

HARDLUCK LODGE

Beginning at Cor. No. 1 of the Hardluck Lodge, where I-
Set a pine post, 4 ins. square and at least 4 1/2 ft. long
24 ins. in the ground,
surrounded by a mound of earth and stone, for Cor. No. 1,
mkd. H-1-4728; from which

The 1/4 Cor. between secs. 5 and 8, T. 16N., R. 21E., M.D.B.
& M., bears N. 60°47'30" W., 627.80 ft. dist.; a
1x2 1/2 x 30 ins. stake with a nail point surrounded by
a mound of rocks.

Cor. No. 1 Friendship lode of this survey bears
S. 69°39'20" W., 79.47 ft. dist.

Thence S. 42° 52' E.

31.80 Intersect line 2-3 Sur. No. 1723 Succor lode at a point from
which Cor. No. 3 bears S. 89°15' W., 405.39 ft. dist.

177 Intersect old power line, bears S. 71°06' W., and N. 71°06' E.

495.36 Cor. No. 2.

On line 4-1 Brown lode of this survey.

Set a pine post, 4 ins. square and at least 4 1/2 ft. long,
24 ins. in the ground,
surrounded by a mound of earth and stone, for Cor. No. 2,
mkd. H-2-4728; from which Cor. No. 1 Brown lode of this
survey bears N. 35°30' E., 39.72 ft. dist.

Thence S. 35° 30' W.

248.71 Intersect line 4-1 Friendship lode of this survey.