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820341

To..... MR. W. M. SIROLA

Subject..... Re: HIGHLAND VALLEY

Highland Valley MinesProperty, Highland Valley BCMarch 8 1972

March 8th, 1972

J.H.S.

P.M.K.

G.M.H.

R.D.S.

E.C.B.

I.C.D.

M.D.R.

J.H.F.

E.C.J.

Property

Eighteen claims (Map 1).

Location

South and east of IR No. 14 in the Highland Valley mining camp. It is bounded by the IR No. 14 on the north and lies about 4500 feet ESE of Bethlehem Copper Corporation's J-A ore body.

Topography

Much of the claim area is low, swampy ground. A reported test hole for water by Lornex indicates about 800 feet of overburden on part of the claims. Topography rises southerly at about a 10° slope on the SW and south half of the claim group.

Work Done

1970 - One diamond drill hole 383' long on Joe Claims. Results of hole are not reported.

1969 - Geological mapping (1" = 100')
I.P. survey (26 line miles)
(Assess. Report - 2012)

Prior to 1969 one rotary drill hole was drilled on Joe No. 6 M. C. Dr. W. J. McMillan reports low grade copper mineralization from the cuttings. No assays are reported. Low grade copper was also noted by McMillan in boulders in trenching on Joe No. 7 Fr. (see Map 1 for location of Joe No. 6 and Joe No. 7). A hole drilled for water reported to be on this property is said to have encountered overburden to 800 feet.

Geology

Recent mapping by Dr. W. J. McMillan shows the property to be underlain by three phases of the Guichon batholith: (a) Guichon quartz diorite, (b) Chataway variety, and (c) Bethlehem-Bathsaida transition phase. These three phases intersect on the southern part of the property.

The Highland Valley fault as projected by Cominco geologists transects the property. Map 2 attached shows geology and the situation of the property with respect to the J-A ore body.

*The shape of the property is not
attractive. Phil Apr 17/72.*

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COPY

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Mineralization on the property is reported only in float on the Joe No. 7 M.C. and in chips from an old rotary drill hole of unknown depth on Joe No. 6 M.C. Very little outcrop occurs on the property.

The Bethlehem J-A zone lies on the north side of the Highland Valley fault almost entirely in the Guichon quartz diorite. It is elongate in a west-northwesterly direction. A projection to the ESE from the J-A would go through the Joe No. 6 and No. 7 where indications of mineralization have been reported. (Geology is shown on Map 2.)

SUMMARY AND CONCLUSIONS

1. The Highland Valley Mines Ltd. property is underlain by favourable rocks of the Guichon batholith.
2. It straddles the west-northwesterly trending Highland Valley fault.
3. The southwestern part of the claims lie on or near the "circle of mineralization." This "circle of mineralization" represents the upward projection of the "stem" of the "mushroom-shaped" Guichon batholith as interpreted by Dr. W. J. McMillan, of the B. C. Dept. of Mines. All significant mineral deposits are on this projected circle.
4. Reported depths of 800 feet of overburden adversely affect the attractiveness of the property. If this report is reliable, then the main value for the property is waste disposal area for Bethlehem. An effort should be made to check whether or not the reported depth is true.
5. The claim block is small but capable of accommodating a sizeable ore deposit.

The geology is favourable and evidence of mineralization has been reported. The only adverse condition is the reported 800 feet of overburden. If it can be established that the overburden is not as deep as reported, then the property is attractive as an exploration bet. Attempts will be made to obtain reliable information on results of any drilling on the claim block.

We should await further information on overburden conditions from John Lund. If not as great as indicated this may be an interesting bet.
att.
W.C. April 13/52.

John.
John C. Lund

JA ORE BODY

6

H.V.M.L. Claims.

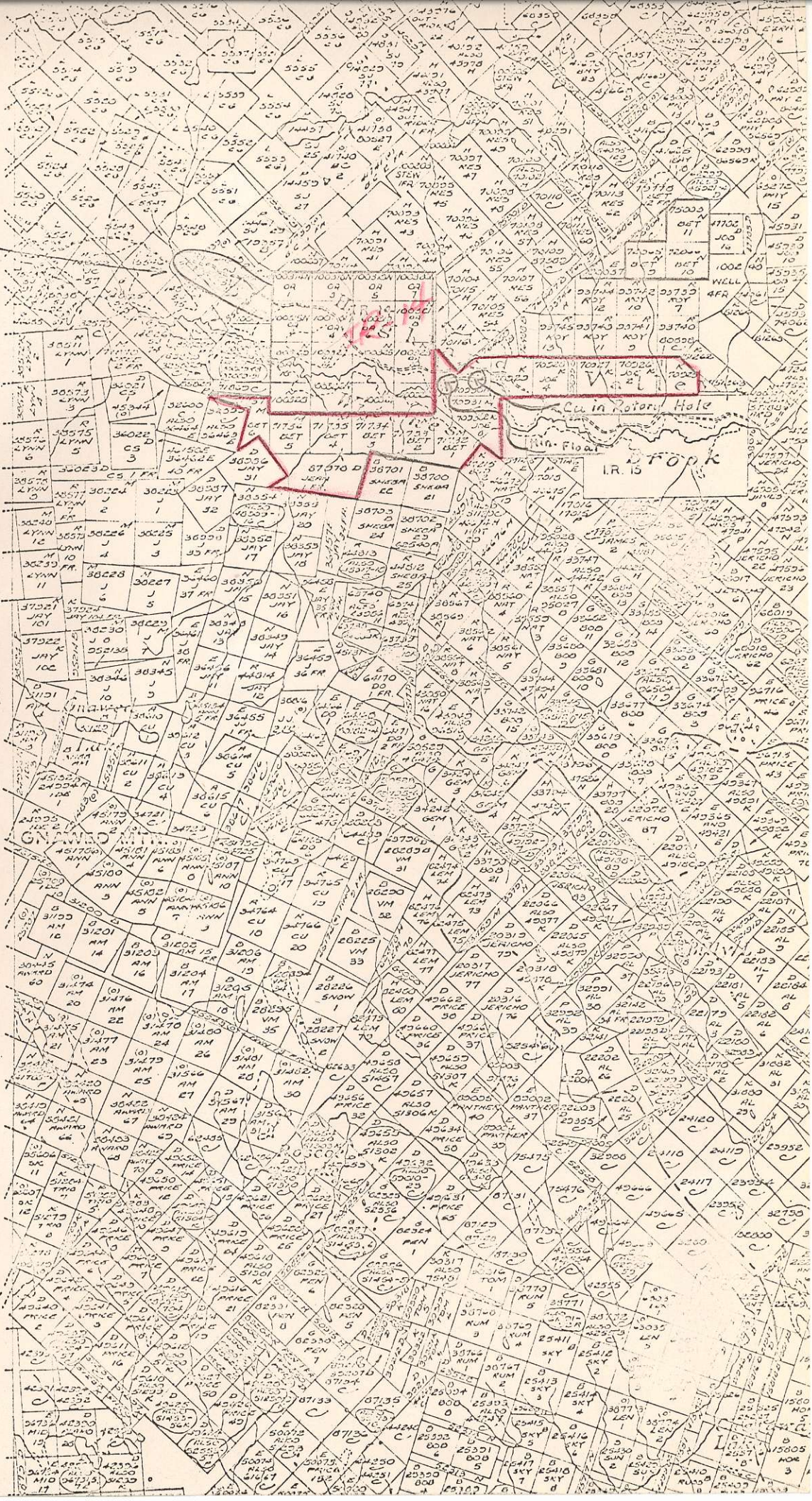
MAP 1

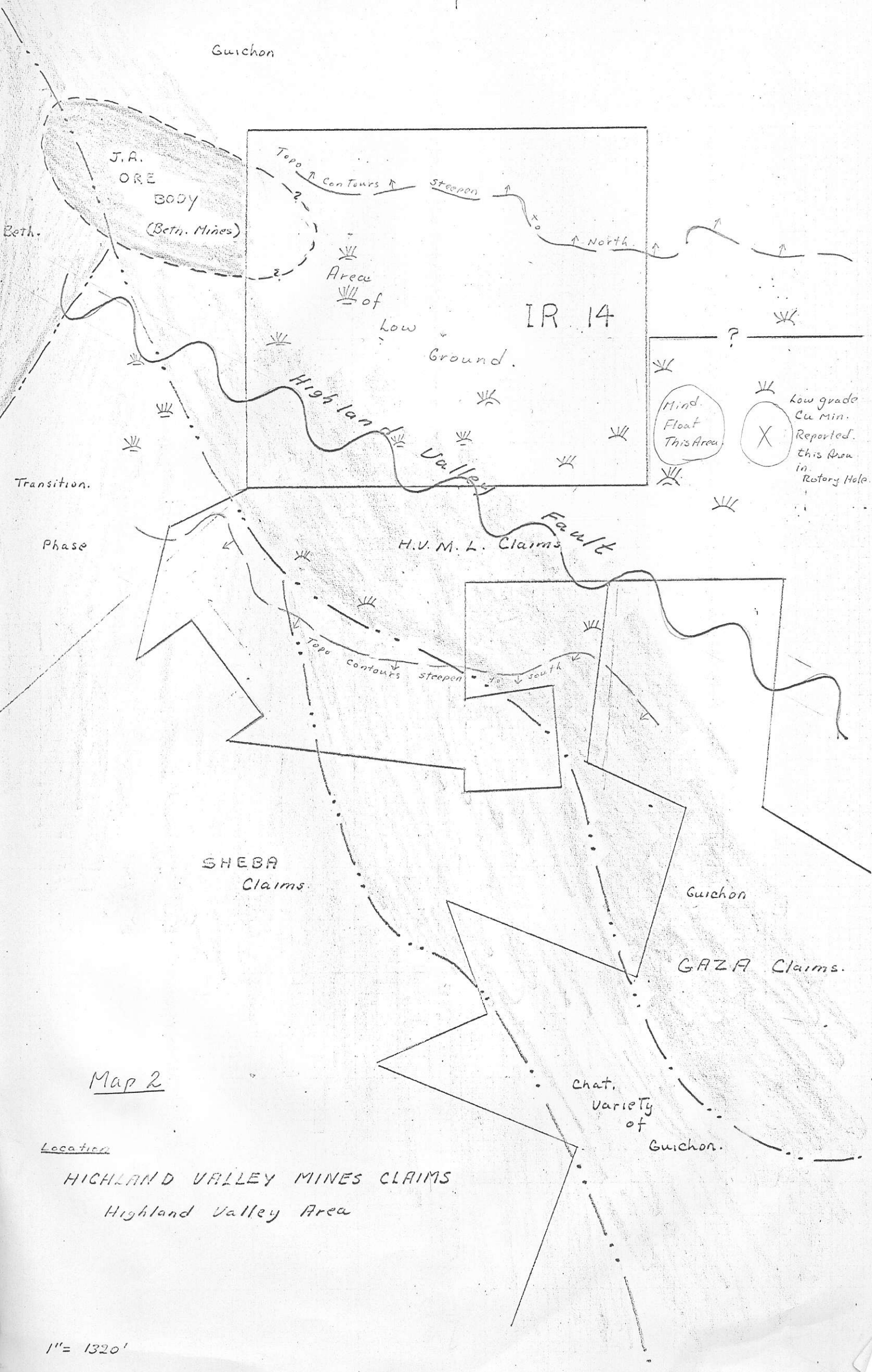
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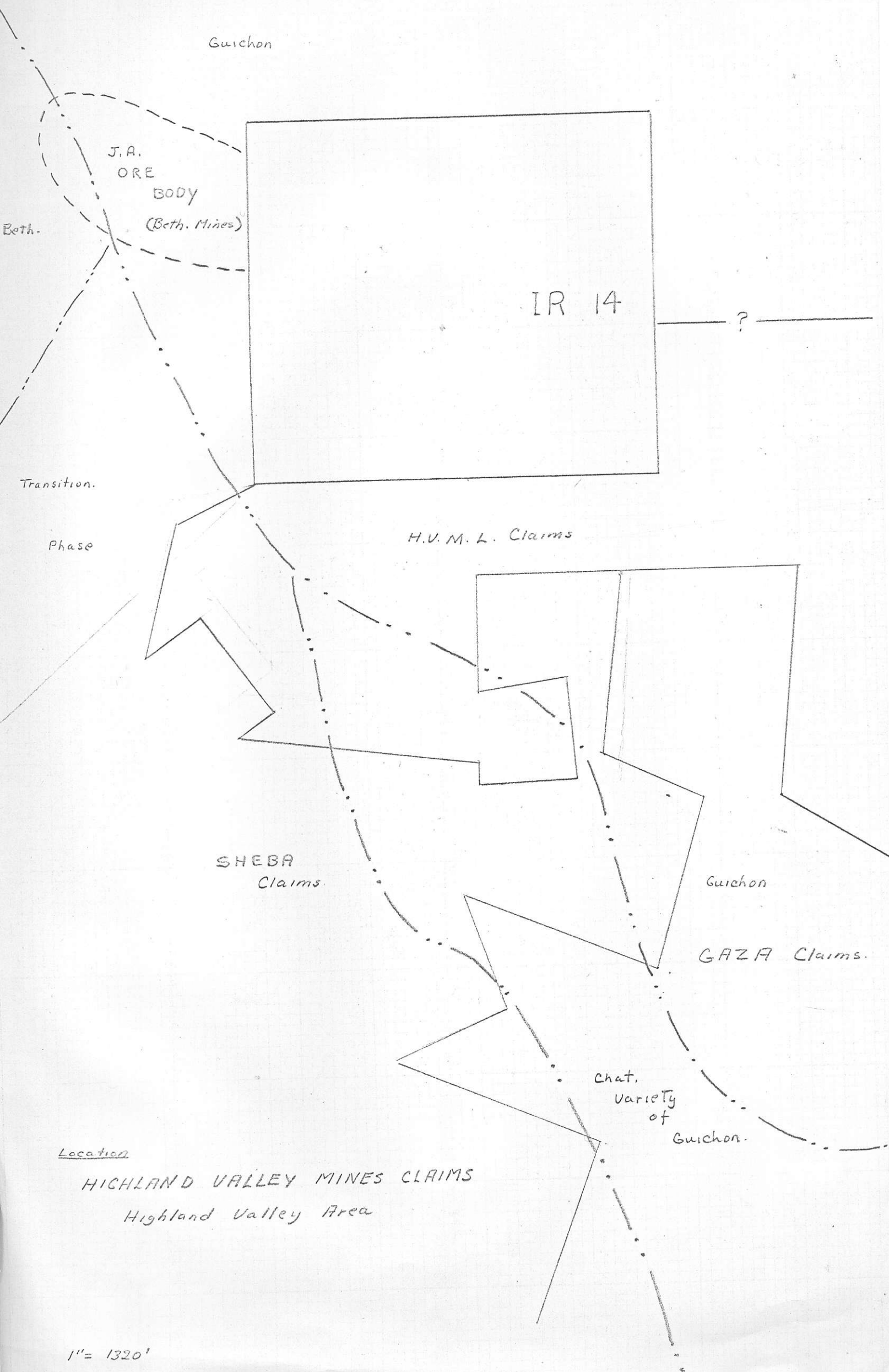
Location
Highland Valley Mines Ltd.
Property
Highland Valley, B.C.

March 6/72

T SEE MAP 521/G E







Location

HIGHLAND VALLEY MINES CLAIMS
Highland Valley Area

1" = 1320'