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GEOMAG GEOPHYSICAL REPORT
of the
COPPER CANYON PROPERTY, MERRITT, B.C.
North 54° 121° West
for
HURLEY RIVER MINES LTD. 92-1-3

D. L. Hings, P. Eng., Sept. - Oct., 1964



Electronic Geophysical Surveys Limited
Vancouver, B. C.

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GEOPHYSICAL REPORT

HURLEY RIVER

TABLE OF CONTENTS

	<u>Page</u>
Survey Extent	1
General Interpretation.	1
Summary	2
Survey Statistics	3
Plans	
113-107-5 - Resistive Contours	
113-107-6 - Surface Contours	
113-107-7 - D.I.V. Vectors	

This is a Geomag Geophysical Report
No. 113-107, of the Copper Canyon
Property, Merritt, B. C. conducted
for the Hurley River Mines Limited,
November, 1964

November 17th, 1964

This Report 113 is an extension and continuation of Report 107 of the Geomag Survey made in September, 1964. This Survey has extended the previous surveys to the West, the South, the East, and Northeast covering nearly three times the previous area surveyed in September.

The Resistive Contours of Drawing 113-107-5 may be related to the previous Survey Contour Plan 107-3 wherein the anomalies A-1, A-2 and A-3 are shown in the same relation. The anomaly A-4 of 107-3 has been greatly reduced with the additional control of the Stations East of Station 9.

The new Survey of November indicates a prominent structural anomaly extending down the East side of Copper Canyon Creek Valley and appears to cross the Creek between Stations 87 and 113. It is believed the strike L-1 continues between Station 112 and Station 13 although there are insufficient stations to support the distance. The anomalous linear strike appears to continue through Stations 31, 25, 47 and 59 as indicated by the dashed line, Linear Anomaly L-1. The L-1 strike follows closely to the high resistive side of the anomalous zone throughout. The low resistance side includes A-1, A-3, B-1 and B-3 with the hanging wall strike shown as L-2.

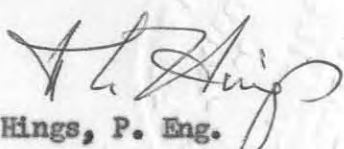
The surface topography may be seen by the Contour Drawing 113-107-2 with the Linear Anomalies L-1 and L-2. It would appear that the slopes of the valley support a Southerly dipping formation, to thereby create a strike equal to L-1. It would appear that the level strike of the formation, if taken between Stations 127 and Station 13, would conform to a dipping formation to the South, and approximately 25° East. The areal anomalies indicate the hanging wall L-2 on the South, and East sides, with the inner side representing the foot wall L-1.

The Vector Plan 113-107-7 indicates the relative strength perpendicular to the direction of strike throughout the anomaly. It may be noted that there is a strong linear structural feature in the Southeast L-3 that would require more survey lines to enable interpretation.

SUMMARY

It would appear that the expansion of this survey over the September Survey has been well warranted and that a prominent geological anomalous formation has now been disclosed in sufficient detail, to be localized for geological examination and investigation.

ELECTRONIC GEOPHYSICAL SURVEYS LIMITED


D. L. Hings, P. Eng.

SURVEY STATISTICS

The type of instrumentation used on this Survey was the Geomag Theodolite Magnetic Component Vectoring System.

This is an extension of the Geomag Survey made in September, 1964 and consists of 12,175' of line surveyed. A total of 127 setup readings were made over 103 Stations.

The work distribution included

2 man days travelling

5 man days surveying

21 man days cutting and staking line

2 man days field office

Total 30 man days field

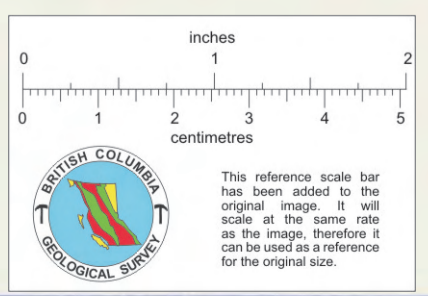
9 $\frac{1}{2}$ man days preparation of report, interpretation and plans

TOTAL: 39 $\frac{1}{2}$ man days

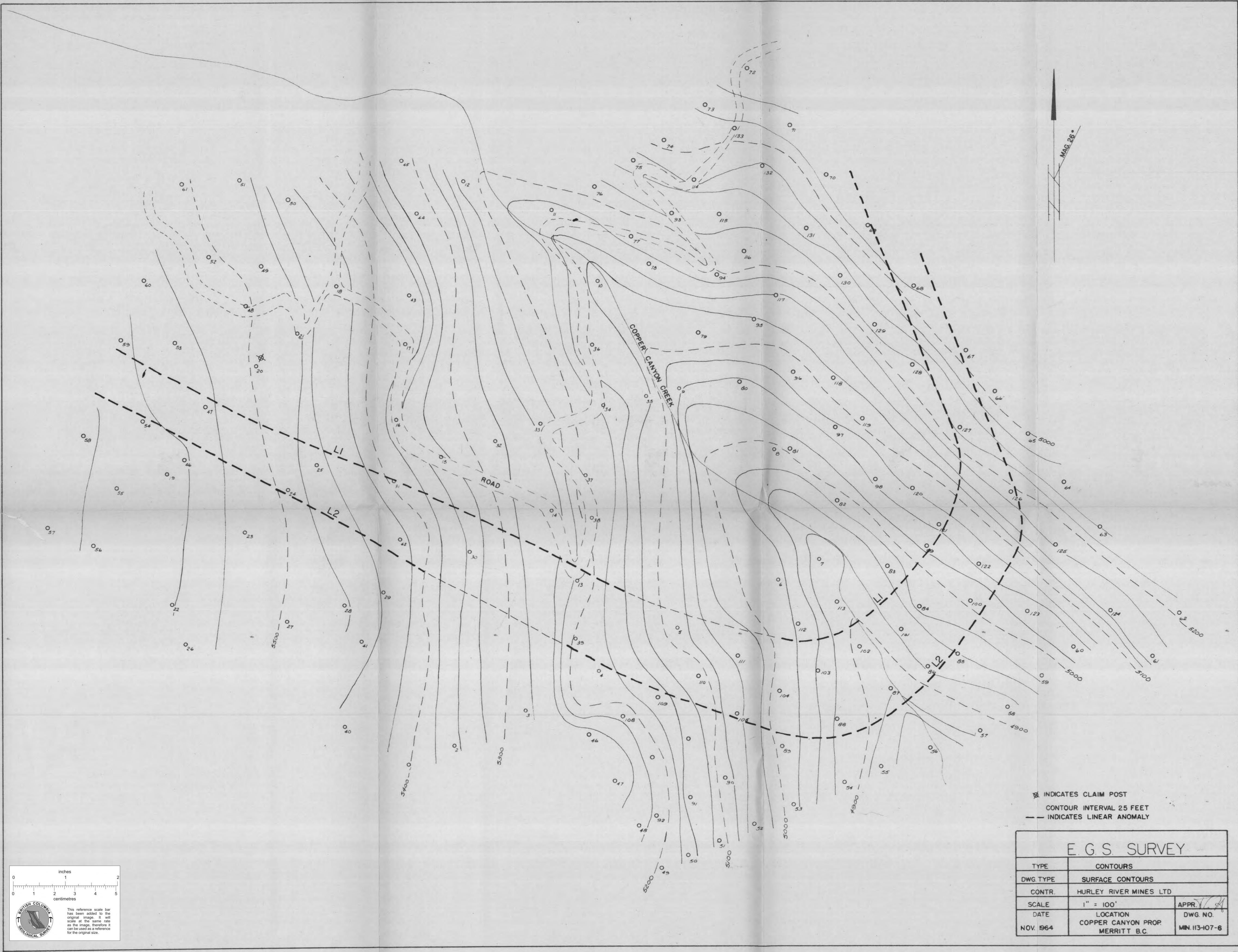


INDICATES CLAIM POST
 INDICATES ANOMALOUS LOW RESISTIVE AREAS
 INDICATES LINEAR ANOMALY

- 100 P.P.M.
 - 200 P.P.M.
 ANOMALIES FROM PREVIOUS
 GEO-CHEMICAL SURVEY
 SUPERIMPOSED



E. G. S. SURVEY		
TYPE	CONTOURS	
DWG. TYPE	RESISTIVE CONTOURS	
CONTR.	HURLEY RIVER MINES LTD	
SCALE	1" = 100'	APPR.
DATE	LOCATION	DWG. NO.
NOV. 1964	COPPER CANYON PROP. MERRITT B.C.	MIN. 113-107-5

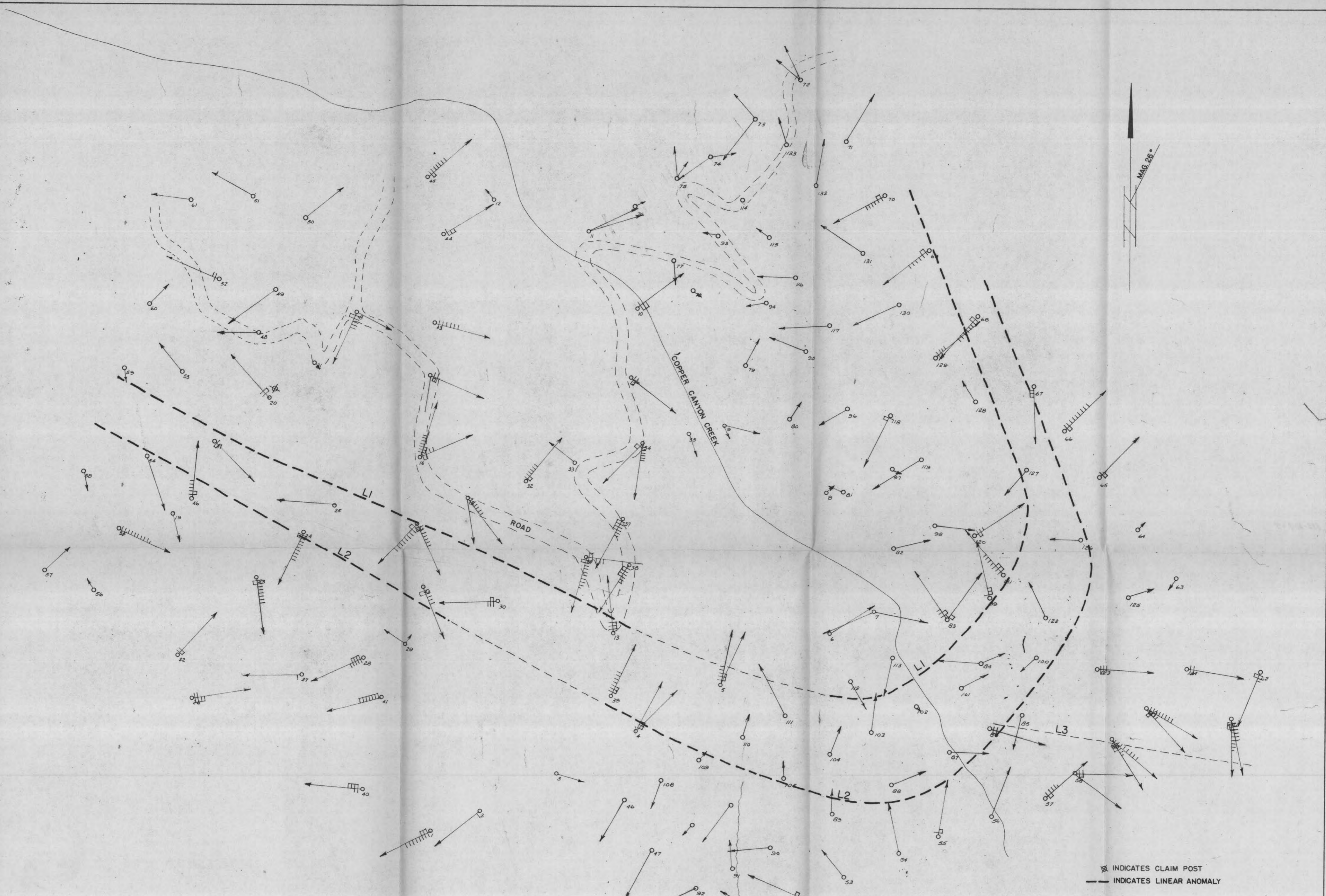


⊗ INDICATES CLAIM POST
 CONTOUR INTERVAL 25 FEET
 - - - INDICATES LINEAR ANOMALY

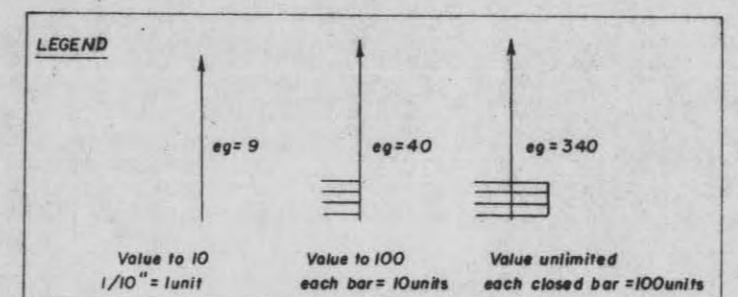
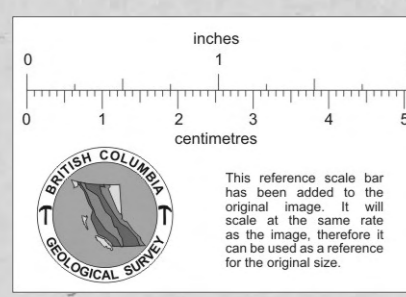
E. G. S. SURVEY		
TYPE	CONTOURS	
DWG TYPE	SURFACE CONTOURS	
CONTR.	HURLEY RIVER MINES LTD	
SCALE	1" = 100'	APPR. <i>[Signature]</i>
DATE	LOCATION	DWG NO.
NOV. 1964	COPPER CANYON PROP. MERRITT B.C.	MIN. 113-107-6

inches
 0 1 2
 centimetres
 0 1 2 3 4 5

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



INDICATES CLAIM POST
 INDICATES LINEAR ANOMALY



E. G. S. SURVEY		
TYPE	VECTORS	
DWG. TYPE	D.I.V. VECTORS	
CONTR.	HURLEY RIVER MINES LTD	
SCALE	1" = 100'	APPR. <i>[Signature]</i>
DATE	LOCATION	DWG. NO.
NOV. 1964	COPPER CANYON PROP. MERRITT B.C.	MIN. 113-107-7