INTERIM REPORT

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COPPER LEAF PROPERTY

NELSON DISTRICT, BC

FOR COPPER RIDGE MINES LTD. (NPL)

BY: C. H. DONALDSON, P. ENG.

# INTERIM REPORT

ON THE

COPPER LEAF PROPERTY

NELSON DISTRICT

BRITISH COLUMBIA

FOR

COPPER RIDGE MINES LTD. (NPL)

by

C. H. DONALDSON, P. ENG.

JANUARY 1969

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PART A

INTRODUCTION

Subsequent to the magnetometric and self potential geophysical surveys done by Velocity Surveys Ltd. of Calgary, Alberta, instructions were received to check the results with two 500' diamond drill holes on the section designated as the Eureka Mine Area.

SUMMARY

The Diamond Drill Hole #1-#68 was collared about 200' in the footwall or to the east of the Eureka vein and drilled eastward at -45°. During the drill site preparation, the bull-dozer hit bedrock showing malachite. A grab sample assayed .02 oz. Au; 1.7 oz. Ag. and 2.06% Cu. Except for one small stringer of chalcopyrite, no values approaching the surface sample were intersected in this hole.

The Diamond Drill Hole #2-#68 was collared about 1,200' east of the Diamond Drill Hole #1-#68 and drilled westward at -45°. No values of consequence were intersected in this hole.

Core logging showed granodiorite intruded by diorite and a few minor porphyry dikes. Where the diorite contains a higher quantity of white feldspar, the values increase.

SUMMARY CONT'D

Pyrite is the main sulphide mineral and is abundant in some sections, mainly in the diorite.

The core is magnetic to varying degrees throughout, but the magnetic properties apparently have little or no connection with values in copper, gold or silver.

Thus, magnetometer surveys are of little value in the search for ore. Also, with the abundance of pyrite, electrical geophysical methods are not the complete answer.

Heavy snow precluded any surface examination. However, with good mineralization showing in situ at the Diamond Drill Hole #1-#68 site, which is well into the footwall of the ore vein, it is apparent that the area contiguous to the vein be investigated.

RECOMMENDATIONS

With the above in mind, I recommend that:

1. Further surface prospecting be done along the strike of the known vein in the hangingwall, footwall and both north and south of the present workings.

RECOMMENDATIONS CONT'D

Estimated Costs

| | | | |
|---|---|---|---|
| 1. | Bulldozer cuts on FW and HW of vein | | |
| | Bulldozer cuts on Strike of vein | | |
| | 200 hours @ $25.00/hour | | $ 5,000.00 |
| 2. | Repairing and cleaning out lower workings | | 2,000.00 |
| | Drilling 2,000' @ $10.00/foot | | 20,000.00 |
| | Engineering, etc. | 5,000.00 | |
| | Sampling (Assaying) | 3,000.00 | |
| | Overhead, travel accommodations | 3,000.00 | |
| | | 11,000.00 | 11,000.00 |
| | | | $38,000.00 |
| | Plus 15% Contingencies | | 6,000.00 |
| | | | $44,000.00 |

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PROVINCE OF BRITISH COLUMBIA
C. H. DONALDSON

10 January 1969

PART B

WORK PERFORMED

Diamond Drilling

Two diamond drill holes, each 500' in depth were drilled to the east of the Eureka Mine workings. The holes are designated as D. D. H. #1-#68 and D. D. H. #2-#68.

The Diamond Drill Hole #1-#68 is situated about 200' east of the old Eureka workings which extend both northerly and southerly. This hole was drilled due east at -45° to intersect combined self potential and magnetic anomaly shown by the geophysical survey done by Velocity Surveys Ltd. of Calgary, Alberta.

The Diamond Drill Hole #2-#68 is situated approximately 1,200' east of the Diamond Drill Hole #1-#68. It was drilled due west at -45° to intersect another combined self potential and magnetic anomaly.

Both holes were drilled by AQ wire-line bits and the core recovery was very good, at 99%.

The core was logged and all the core from both holes was split and assayed. The sample lengths varied according to the rock types encountered.

WORK PERFORMED CONT'D

Cost of Drilling Programme Completed

The snow removal and water supply were two problems which increased the cost of the operation.

| | | |
|---|---|---|
| Drilling Contract | | |
| @ $6.00/foot and Mobilization | | $6,400.00 |
| Road Building TD 25 | | |
| 24 hours @ $25.00/hour | | 600.00 |
| Snow Removal | | |
| TD25 | 235.50 | |
| Case | 446.00 | |
| Labour | 78.80 | |
| | 760.30 | 760.30 |
| Water Hauling - Labour Only | | 253.11 |
| | | $8,013.41 |

Additional Costs

| | | |
|---|---|---|
| 4 x 4 Rental | 290.20 | |
| Engineering | 1,250.00 | |
| Travel & Accommodations | 745.15 | |
| Assaying | 582.30 | |
| Extras - Labour | 200.00 | |
| Supervision, etc. | 145.00 | |
| | 3,212.65 | 3,212.45 |
| | | $11,226.06 |

GEOLOGY

The drilling shows the formation to be granodiorite intruded by diorite and a few small porphyry dikes.

The diorite varies from a hard silicified diorite of light color to a dark medium hard diorite with abundant white feldspar. The latter has been altered in places and the feldspar leached leaving a dark, porous diorite.

The cores are all magnetic but vary in intensity.

ASSAYS

See Page - 7 - .

ASSAYS Diamond Drill Hole No. 1-68

| Sample | Width | | Au | Ag | Cu | $MoS_2$ |
|---|---|---|---|---|---|---|
| 174 | Grab. | Surface at 1-68 | .02 | 1.7 | 2.06 | |
| 175 | 10' | Mostly granodiorite | .02 | .10 | .07 | .01 |
| 176 | 15' | Mostly granodiorite | .01 | .10 | .02 | |
| 177 | 5.5' | Mostly granodiorite | .01 | tr. | .02 | |
| 178 | 11' | Mostly granodiorite | tr. | .20 | .02 | |
| 179 | 3.5' | Mostly granodiorite | .01 | .10 | .04 | .01 |
| 180 | 9' | Mostly granodiorite | .01 | .10 | .05 | .01 |
| 181 | 6' | Soft porous dark coarse diorite | .01 | .20 | .32 | .01 |
| 182 | 11' | Granodiorite | .01 | tr. | 09 | |
| 183 | 1' | Chalcopyrite stringer ½" | .02 | .50 | 2.41 | |
| 184 | 6' | Granodiorite | .01 | tr. | .03 | |
| 185 | 9' | Granodiorite & diorite | .01 | .20 | .09 | .01 |
| 186 | 12' | Diorite heavy feldspar | .01 | .10 | .25 | .01 |
| 188 | 13' | Diorite heavy feldspar | .02 | .10 | .20 | .02 |
| 189 | 10' | Granodiorite | .01 | .10 | .04 | |
| 187 | 4' | Diorite | .01 | .20 | .06 | .01 |
| 190 | 9' | Diorite | .02 | .20 | .03 | |
| 191 | 3' | Porous diorite coarse grained fair mineralization | .02 | .30 | .45 | .01 |
| 192 | 10' | Diorite | .01 | .20 | .03 | |
| 193 | 11' | Granodiorite | .01 | .10 | .02 | |
| 194 | 3' | Granodiorite | .01 | tr. | .02 | .01 |
| 195 | 5' | Granodiorite | tr. | tr. | .02 | |
| 196 | 8' | Silicified diorite and granodiorite bands of mineralization | .01 | tr. | .26 | |
| 197 | 12' | Granodiorite | tr. | tr. | .01 | |
| 198 | 4' | Silicified diorite with malachite and chalcopyrite | .01 | tr. | .14 | .01 |
| 199 | 19' | diorite and granodiorite | .01 | tr. | .06 | |
| 200 | 9' | diorite and granodiorite | .01 | tr. | .07 | |

| Sample | Width | | Au | Ag | Cu | $MoS_2$ |
|---|---|---|---|---|---|---|
| 918 | 10' | Granodiorite | .01 | tr. | .02 | |
| 919 | 9' | Granodiorite | .01 | tr. | .07 | .01 |
| 920 | 7' | Granodiorite and diorite bands | .01 | tr. | .02 | |
| 921 | 11' | Silicified diorite | .01 | tr. | .04 | |
| 922 | 20' | Silicified diorite | .01 | tr. | .06 | |
| 923 | 18' | Silicified diorite | .01 | tr. | .03 | |
| 924 | 10' | Granodiorite | .01 | tr. | .04 | |
| 925 | 9' | 4' porphyry dike in diorite | .01 | .40 | .11 | |
| 926 | 9' | silicified diorite | .01 | tr. | .07 | |
| 927 | 9' | silicified diorite | .02 | tr. | .06 | |
| 928 | 10' | Diorite | .02 | tr. | .04 | |
| 929 | 9.5' | Silicified diorite | .01 | tr. | .03 | |
| 930 | 9' | Diorite | .01 | tr. | .06 | .01 |
| 931 | 10' | Granodiorite, diorite and 1.5' dark porphyry dike | .01 | .10 | .03 | |
| 932 | 10' | diorite with silicified bands | .01 | .10 | .02 | |
| 933 | 9.5' | diorite with silicified bands | .02 | tr. | .03 | |
| 934 | 18' | 2' light porphyry, 7' silicified diorite and 9' very hard silicified rock | .01 | .30 | .04 | |
| 935 | 19' | silicified diorite with quartz veinlets | .01 | .10 | .02 | |
| 936 | 18' | silicified diorite with quartz veinlets | .01 | .10 | .02 | |
| 937 | 19' | silicified diorite with quartz veinlets | .01 | tr. | .01 | |
| 938 | 14' | silicified diorite with quartz veinlets | .01 | .10 | .02 | |
| 939 | 10' | light grey porphyry, poorly mineralized | .01 | .10 | .01 | |
| 940 | 7' | silicified diorite | .01 | .30 | .01 | |
| 941 | 5' | light grey porphyry | .01 | .30 | .01 | |

End of Hole

ASSAYS Diamond Drill Hole No. 2-68

| Sample | Width | | Au | Ag | Cu | $MoS_2$ |
|---|---|---|---|---|---|---|
| 943 | 9 | Diorite | .01 | .10 | .03 | .005 |
| 944 | 4 | dark porous diorite-much $Fe_2 O_3$ | .02 | .20 | .02 | .005 |
| 945 | 9.5 | diorite with $Fe_2 O_3$ | .01 | .10 | .03 | .005 |
| 946 | 18.5 | mixed diorite and granodiorite with $Fe_2 O_3$ | .01 | tr. | .03 | |
| 947 | 8.5 | soft granitized rock well mineralized | .01 | .20 | .03 | .005 |
| 948 | 9.5 | hard dense diorite fine pyrite | .01 | .10 | .02 | |
| 949 | 9 | Porous diorite-mineralized | .01 | .20 | .03 | .005 |
| 950 | 10 | granodiorite-much biotite | .01 | .10 | .02 | |
| 2201 | 12 | coarse grained diorite | .01 | .20 | .02 | |
| 2202 | 7 | mostly granodiorite | .01 | .20 | .03 | |
| 2203 | 4 | diorite fair mineralization | .01 | .20 | .03 | |
| 2204 | 12 | granodiorite poor mineralization | .01 | .30 | .02 | |
| 2205 | 9 | granitic rock much plagioclase | .02 | tr. | .02 | |
| 2206 | 9 | granitic rock much plagioclase | .01 | .10 | .02 | |
| 2207 | 9 | granitic rock much plagioclase | .01 | tr. | .02 | |
| 2208 | 13 | granitic rock much plagioclase | .01 | tr. | .02 | |
| 2209 | 6 | diorite with pyrite | .02 | .20 | .01 | |
| 2210 | 12 | granitic rock much plagioclase | .02 | .10 | .01 | |
| 2211 | 10 | diorite with pyrite | .05 | .30 | .02 | |
| 2212 | 9.5 | diorite with pyrite | .01 | .20 | .02 | |
| 2213 | 13.5 | diorite with pyrite | .01 | .2 | .01 | |
| 2214 | 7 | silicified diorite with pyrite | .40 | .2 | .03 | |
| 2215 | 23 | diorite with pyrite | .02 | .2 | .03 | |
| 2216 | 14 | diorite with pyrite | .02 | .1 | .03 | |
| 2217 | 7 | quartz diorite with pyrite | .01 | .1 | .03 | |
| 2218 | 10 | very hard fine grained diorite poor mineralization | .02 | .3 | .02 | |
| 2219 | 19 | quartz diorite with pyrite | .01 | .1 | .02 | |
| 2220 | 8 | diorite with silicified bands | .01 | .1 | .03 | |

| Sample | Width | | Au | Ag | Cu | $MoS_2$ |
|---|---|---|---|---|---|---|
| 2221 | 11 | coarse grained diorite pyrite | .01 | tr. | .02 | tr |
| 2222 | 10 | quartz veinlets in diorite | .02 | .1 | .03 | |
| 2223 | 7 | quartz diorite well mineralized with pyrite | .01 | .1 | .03 | |
| 2224 | 5 | quartz diorite with quartz veinlets well mineralized | .01 | .1 | .02 | |
| 2225 | 14 | Gneissic diorite fair mineralization | .02 | .2 | .03 | |
| 2226 | 8 | Dull dark diorite poor mineralization | .02 | .3 | .02 | |
| 2227 | 6 | quartz diorite fair mineralization | .03 | .3 | .03 | |
| 2228 | 3 | black lamprophyre dyke | .01 | tr. | .02 | |
| 2229 | 10 | quartz diorite well mineralized | .02 | tr. | .02 | |
| 2230 | 7.5 | quartz diorite well mineralized | .01 | tr. | .03 | |
| 2231 | 4.5 | light grey siliceous rock (dike?) | .02 | tr. | .18 | |
| 2232 | 9 | quartz diorite fair mineralization | .03 | .1 | .02 | |
| 2233 | 4 | light grey siliceous rock | .11 | .3 | .02 | |
| 2234 | 9 | quartz diorite - fair mineralization | .01 | .1 | .03 | |
| 2235 | 10 | quartz diorite - fair mineralization | .01 | .1 | .02 | |
| 2236 | 9 | quartz diorite - fair mineralization | .02 | .1 | .03 | |
| 2237 | 9.5 | quartz diorite - fair mineralization | .02 | .2 | .05 | |
| 2238 | 9.5 | gneissic diorite poor mineralization | .01 | tr. | .02 | |
| 2239 | 9.5 | quartz diorite poor mineralization | .01 | tr. | .02 | Ni tr. |
| 2240 | 12.5 | quartz diorite poor mineralization | .01 | tr. | .02 | |
| 2241 | 10 | quartz diorite poor mineralization | .01 | tr. | .03 | |
| 2242 | 20 | quartz diorite poor mineralization | .01 | .1 | .01 | |

End of Hole

## CONCLUSIONS AND COMMENTS

Although this drilling programme has not shown any commercial ore, it indicates that values in copper, gold and silver do occur in the igneous intrusive rock.

The Nelson Batholith has been very productive along its contact flanks for its full length from north of the Arrow and Slocan Lakes south into the United States.

The mineral occurrences and production have been greater than the Coast Range Batholith per square mile.

The Coast Range Batholith and associated intrusives are proving up large low grade properties.

To date there has been little effort in searching for similar deposits in the Nelson Batholith. It is my considered opinion that the Nelson Batholith with its associated intrusives will sooner or later produce some large low grade deposits.

On the Copper Leaf Property further exploration work is certainly warranted.

Respectfully Submitted,

C. H. Donaldson, P.Eng.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
C. H. DONALDSON

10 January 1969

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd. PROPERTY Copper Leaf Section No. HOLE No. 1-68

Nelson, B.C.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Started | December 13 | Bearing | 90° | Lat. | 49° 27'30"N | Collar El. | 4000' approx |
| Completed | December 18 | Angle from Horiz. | -45° | Long. | 117° 21'50"W | Bottom. El. | 3647' |
| Driller | T. Connors | Length | 500' | Location | Nelson Dist. | Level | |

Logged by C.H.D. Date December 13/68

Remarks Snow and water problems

| Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY Au | ASSAY Ag | ASSAY Cu | ASSAY $MoS_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10 | 10' | 1.5 | 15 | | Porous coarse diorite with pyrite and some chalcopyrite. | 175 | 0 - 10' | 10' | .02 | 0.10 | .07 | .01 |
| 10 | 16 | 6 | 6 | 100 | | Fine grained granodiorite poor mineralization | | | | | | | |
| 16 | 18 | 2 | nil | 0 | | Drillers report open space. | 176 | 10'-25' | 15' | .01 | 0.10 | .02 | |
| 18 | 20 | 2 | 2 | 100 | | Fine granodiorite with 1' of porous mineralization. Coarse diorite | | | | | | | |
| 20 | 25 | 5 | 5 | 100 | | Medium coarse grained granodiorite | | | | | | | |
| 25 | 28.5 | 3.5 | 3.5 | 100 | | Coarse grained porour mineralized diorite | 177 | 20-30.5 | 5.5' | .01 | Tr | .02 | .01 |
| 2 28.5 | 30 | 1.5 | 1.5 | 100 | | Medium grained granodiorite sparse fine mineralization | | | | | | | |
| 30 | 32 | 2 | 2 | 100 | | Coarse grained diorite with fine pyrite and chalcopyrite | | | | | | | |
| 3 32 | 35 | 3 | 3 | 100 | | Fine grained granodiorite | | | | | | | |
| 35 | 36 | 1 | 1 | 100 | | Coarse grained diorite - mineralized with pyrite. Chalcopyrite and pyrrhotite mineralization | 178 | 30.5-41.5 | 11' | Tr | 0.20 | .02 | |
| 36 | 41 | 5 | 4 | 80 | | Fine grained granodiorite with sparse pyrite mineralization | | | | | | | |
| 4 41 | 50 | 9 | 9 | 100 | | Medium grained granodiorite with some pyrite and specularite mineralization | 179 | 41.5-45 | 3.5' | .01 | .10 | .04 | .01 |
| | | | | | | | 180 | 45-54 | 9' | .01 | .10 | .05 | .01 |
| 5 50 | 60 | 10 | 10 | 100 | | 50-54 light grey medium grained granodiorite 54-60 dark coarse diorite (porous) with chalcopyrite mineralization. Soft rock | 181 | 54-60 | 6' | .01 | .20 | .32 | .01 |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd PROPERTY Copper Leaf Section No. HOLE No. 1-68

| Started | Bearing | Lat. | Collar El. | Logged by | Date |
|---|---|---|---|---|---|
| Completed | Angle from Horiz. | | Bottom. El. | Remarks | |
| Driller | Length | Location | Level | | |

| Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY Au | ASSAY Ag | ASSAY Cu | $MoS_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6-60 | 69 | 9 | 9 | 100 | | Medium grained granodiorite poor mineralization | 182 | 60-71 | 11' | .01 | Tr | .09 | |
| 7-69 | 78 | 9 | 9 | 100 | | Medium grained granodiorite - at 71' ½" chalcopyrite | 183 | 71-72 | 1' | .02 | .50 | 2.41 | |
| | | | | | | | 184 | 72-78 | 6' | .01 | Tr | .03 | |
| 8-78 | 81 | 3 | 3 | 100 | | medium grained granodiorite poor mineralization | | | | | | | |
| 81 | 87 | 6 | 6 | 100 | | dark grey diorite with pyrite, chalcopyrite and chalcocite. $MoS_2$ - soft rock with much white feldspar | 185 | 78-87 | 9' | .01 | .20 | .09 | .01 |
| 9-87 | 95 | 8 | 8 | 100 | | Same as 81-87 | 186 | 87-99 | 12' | .01 | .10 | .25 | .01 |
| 95 | 99 | 4 | 4 | 100 | | Dark grey diorite-4"silicified band at 97' - mineralized with chalcopyrite, pyrite and $MoS_2$ | | | | | | | |
| 10 | | | | | | | 188 | 99-112 | 13' | .02 | .10 | .29 | .02 |
| 99 | 104 | 5 | 5 | 100 | | Same with more silicification and quartz veins | | | | | | | |
| 104 | 112 | 8 | 8 | 100 | | Same as 95 to 99 - gneissic texture 107-109 mineralized quartz veins | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 112 | 113 | 1 | 1 | 100 | | More dense and lighter colored approaching granodiorite | 189 | 112-122 | 10' | .01 | .10 | .04 | |
| 12 113 | 122 | 9 | 9 | 100 | | Short sections of granodiorite and diorite with narrow seams of mineralization | 187 | 122-126 | 4' | .01 | .20 | .06 | .01 |
| 122 | 126 | 4 | 4 | 100 | | Diorite - mineralized - soft with white feldspar | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 126 | 131 | 5 | 5 | 100 | | Granodiorite poor mineralization | | | | | | | |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd. PROPERTY Copper Leaf Section No. HOLE No. 1-68

| | | | | |
|---|---|---|---|---|
| Started | Bearing | Lat. | Collar El. | Logged by Date |
| Completed | Angle from Horiz. | | Bottom. El. | Remarks |
| Driller | Length | Location | Level | |

| Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY Au | ASSAY Ag | ASSAY Cu | $MOS_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 131 | 135 | 4 | 4 | 100 | | Coarse grained diorite - poor mineralization | 190 | 126-135 | 9' | .02 | .20 | .03 | |
| 14 135 | 138 | 3 | 3 | 100 | | Coarse grained diorite - porous, fairly well mineralized | 191 | 135-138 | 3' | .02 | .30 | .45 | .01 |
| 138 | 140 | 2 | 2 | 100 | | Coarse dense diorite poor mineralization | 192 | 138-148 | 10' | .01 | .20 | .03 | |
| 140 | 145 | 5 | 5 | 100 | | Diorite - gneissic 142-143 poor mineralization | | | | | | | |
| 15 145 | 148 | 3 | 3 | 100 | | Granodiorite - poor mineralization | | | | | | | |
| 148 | 149 | 1 | 1 | 100 | | Dense diorite poor mineralization | | | | | | | |
| 16 149 | 158 | 9 | 9 | 100 | | Granodiorite with some fine pyrite | 193 | 148-159 | 11' | .01 | .10 | .02 | |
| 158 | 168 | 10 | 10 | 100 | | 158-159 quartz with good Copper<br>159-162 granodiorite with fine mineralization<br>162-168 poorly mineralized granodiorite | 194 | 159-162 | 3' | .01 | Tr. | .20 | .01 |
| 17 | | | | | | | 195 | 162-168 | 5' | Tr | Tr. | .02 | |
| 18 168 | 176 | 8 | 8 | 100 | | Diorite and granodiorite with silicified sections and bands of copper-malachite | 196 | 168-176 | 8' | .01 | Tr. | .26 | |
| 19 176 | 185 | 9 | 9 | 100 | | 176-184 granodiorite - poor mineralization<br>184-185 band of diorite | 197 | 176-188 | 12' | Tr. | Tr. | .01 | |
| 20 185 | 194.5 | 9.5 | 9.5 | 100 | | 185-188 granodiorite - poor mineralization<br>188-192 silicified diorite with copper-malachite and chalcopyrite<br>192-194.5 bands of granodiorite and diorite poor mineralization | 198 | 188-192 | 4' | .01 | Tr. | .14 | .01 |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd. PROPERTY Copper Leaf Section No. HOLE No. 1-68

| Started | Bearing | Lat. | Collar El. | Logged by | Date |
|---|---|---|---|---|---|
| Completed | Angle from Horiz. | | Bottom. El. | Remarks | |
| Driller | Length | Location | Level | | |

| | Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY Au | ASSAY Ag | ASSAY Cu | $MoS_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 194.5 | 202 | 7.5 | 7.5 | 100 | | 194.5-197 diorite poor mineralization<br>197-202 granodiorite, poor mineralization | 199 | 192-211 | 19' | .01 | Tr. | .06 | |
| 22 | 202 | 211 | 9 | 9 | 100 | | granodiorite with some silicification - poor mineralization - hard | | | | | | | |
| 23 | 211 | 220 | 9 | 9 | 100 | | 211-213 - mineralized granodiorite fine pyrite and bornite<br>213-216 - mineralized diorite - pyrite, chalcopyrite<br>216-218 - granodiorite poor mineralization<br>218-220 - diorite-malachite,pyrite,chalcopyrite | 200 | 211-220 | 9' | .01 | Tr. | .07 | |
| 24 | 220 | 230 | 10 | 10 | 100 | | 220-228 - mineralized granodiorite<br>228-230 - silicified granodiorite with very fine mineralized-pyrite, chalcopyrite - hard rock | 918 | 220-230 | 10' | .01 | Tr. | .02 | |
| 25 | 230 | 239 | 9 | 9 | 100 | | mineralized silicified granodiorite - very fine mineralized-pyrite, chalcopyrite, pyrrhotite, bornite - fairly soft rock | 919 | 230-239 | 9' | .01 | tr. | .07 | .01 |
| 26 | 239 | 247 | 8 | 8 | 100 | | 239-246 mineralized granodiorite<br>246-247 band of diorite<br>throughout very fine mineralized pyrite and chalcopyrite. medium hard rock | 920 | 239-246 | 7' | .01 | tr. | .02 | |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd PROPERTY Copper Leaf Section No. HOLE No. 1-68

| | | | | |
|---|---|---|---|---|
| Started | Bearing | Lat. | Collar El. | Logged by Date |
| Completed | Angle from Horiz. | | Bottom. El. | Remarks |
| Driller | Length | Location | Level | |

| Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY Au | ASSAY Ag | ASSAY Cu | $MoS_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 247 | 257 | 10 | 10 | 100 | | Silicified diorite with fine mineral throughout pyrite and chalcopyrite medium hard rock | 921 | 246-257 | 11' | .01 | tr. | .04 | |
| 257 | 267 | 10 | 20 | 100 | | Silicified diorite with fine mineralization Silicification varies - mineralization mostly pyrite with some chalcopyrite. Medium hard rock | 922 | 257-277 | 20' | .01 | tr. | .06 | |
| 267 | 277 | 10 | 10 | 100 | | Same as 257-267 | | | | | | | |
| 277 | 286 | 9 | 9 | 100 | | Same with finely divided mineralization. Mostly pyrite with some chalcopyrite | 923 | 277-295 | 18' | .01 | tr. | .03 | |
| 286 | 295 | 9 | 9 | 100 | | Same as 277-286 medium hard rock | | | | | | | |
| 295 | 305 | 10 | 10 | 100 | | Granodiorite poor mineralization a few specks of pyrite only. Very hard | 924 | 295-305 | 10' | .01 | tr. | .04 | |
| 305 | 314 | 9 | 9 | 100 | | At 305-4" silicified band with copper 305-309 porphyry dike (?) 309-314 - diorite very hard | 925 | 305-314 | 9' | .01 | .40 | .11 | |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd PROPERTY Copper Leaf Section No. HOLE No. 1-69

| Started | Bearing | Lat. | Collar El. | Logged by | Date |
|---|---|---|---|---|---|
| Completed | Angle from Horiz. | | Bottom. El. | Remarks | |
| Driller | Length | Location | Level | | |

| | Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY Au | ASSAY Ag | ASSAY Cu | $MoS_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | 314 | 323 | 9 | 9 | 100 | | Silicified diorite with small (1/8") stringers of quartz. Mineralized with malachite, chalcopyrite, pyrite | 926 | 314-323 | 9' | .01 | tr. | .07 | |
| 35 | 323 | 332 | 9 | 9 | 100 | | Silicified diorite - fairly well mineralized pyrite only. | 927 | 323-332 | 9' | .02 | tr. | .06 | |
| 36 | 332 | 342 | 10 | 10 | 100 | | Diorite with pyrite and some chalcopyrite | 928 | 332-342 | 10' | .02 | tr. | .04 | |
| 37 | 342 | 351.5 | 9.5 | 9.5 | 100 | | Silicified diorite - poor mineralization - very light fine pyrite | 929 | 342-351.5 | 9.5 | .01 | tr. | .03 | |
| 38 | 351.5 | 360.5 | 9 | 9 | 100 | | Dark diorite - fair mineralization - pyrite and chalcopyrite | 930 | 351.5-360.5 | 9 | .01 | tr. | .06 | |
| 39 | 360.5 | 370.5 | 10 | 10 | 100 | | 306.5-364.5-granodiorite )Poor mineral-<br>364.5-366 -dark porphyry dike )ization.<br>366 -370.5-diorite )Slight pyrite only | 931 | 360.5-370.5 | 10 | .01 | .10 | .03 | |
| 40 | 370.5 | 380.5 | 10 | 10 | 100 | | Diorite with small veinlets of quartz. Poorly mineralized - some pyrite and chalcopyrite | 932 | 370.5-380.5 | 10 | .01 | .10 | .02 | |
| 41 | 380.5 | 390 | 9.5 | 9.5 | 100 | | Diorite with silicified bands-fair pyrite mineralization with small amount chalcopyrite | 933 | 380.5-390 | 9.5 | .02 | tr. | .03 | |
| 42 | 390 | 399 | 9 | 9 | 100 | | 390-392 light colored porphyry with fine pyrite<br>392-399-silicified diorite-poor mineralization | 934 | 390-408 | 18 | .01 | .30 | .04 | |
| 43 | 399 | 408 | 9 | 8 | 90 | | Very hard silicified rock (?) poor mineralization | | | | | | | |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd PROPERTY Copper Leaf Section No. HOLE No. 1-68

| | | | | |
|---|---|---|---|---|
| Started | Bearing | Lat. | Collar El. | Logged by Date |
| Completed | Angle from Horiz. | | Bottom. El. | Remarks |
| Driller | Length | Location | Level | |

| | Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY Au | ASSAY Ag | ASSAY Cu | $MOS_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 408 | 417 | 9 | 8 | 90 | | 408-409 - 3" core | | | | | | | |
| 44 | | | | | | | Silicified diorite with quartz veinlets slight mineralization with pyrite and chalcopyrite Hard rock | 935 | 408-427 | 19 | .01 | .10 | .02 | |
| 45 | 417 | 427 | 10 | 10 | 100 | | Same as above | | | | | | | |
| 46 | 427 | 435 | 8 | 8 | 100 | | Same as above | 936 | 427-445 | 18 | .01 | .10 | .02 | |
| 47 | 435 | 445 | 10 | 10 | 100 | | Same as above | 937 | 445-464 | 19 | .01 | tr. | .01 | |
| 48 | 445 | 455 | 10 | 10 | 100 | | Silicified diorite-poorly mineralized. Very hard | | | | | | | |
| 49 | 455 | 464 | 9 | 9 | 100 | | Same as above | | | | | | | |
| 50 | 464 | 473.5 | 9.5 | 9.5 | 100 | | Same as above | 938 | 464-478 | 14 | .01 | .10 | .02 | |
| 51 | 473.5 | 483 | 9.5 | 9.5 | 100 | | 473.5-478 same as above | | | | | | | |
| | | | | | | | 478-483 light grey porphyry poorly mineralized with pyrite | | | | | | | |
| 52 | 483 | 493 | 10 | 10 | 100 | | 483-488-porphyry as above | 939 | 478-488 | 10 | .01 | .10 | .01 | |
| | | | | | | | 488-493 silicified diorite fairly well mineralized with pyrite | 940 | 488-495 | 7 | .01 | .30 | .01 | |
| | 493 | 500 | 7 | 7 | 100 | | 493-495 silicified diorite as above | | | | | | | |
| 53 | | | | | | | 495-500 Porphyry as above 478-488 | 941 | 495-500 | 5 | .01 | .30 | .01 | |

# Drill Hole Log

COMPANY Copper Ridge Mines | PROPERTY Copper Leaf, Nelson, B.C. | Section No. | HOLE No. 2-68

| | | | | | |
|---|---|---|---|---|---|
| Started December 20 | Bearing 270° | Lat. 49° 27'30"N | Collar El. 4200 | Logged by C.H.D. | Date December 27/68 |
| Completed December 24 | Angle from Horiz. -45° | Long. 117°21'35"W | Bottom. El. 3850 | Remarks Snow and water problems | |
| Driller | Length | Location | Level Surface | | |

| | Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 10 | 10 | - - | | | Casing - nore core | | | | |
| 1 | 10 | 19 | 9 | 5 | 55 | | Diorite - fine chalcopyrite pyrite. Medium hard | 943 | 10-19 | 9' | |
| | 19 | 23 | 4 | 4 | 100 | | dark porous granitized rock with plenty of iron oxide (specimen # 1) | 944 | 19-23 | 4' | |
| 2 | 23 | 32.5 | 9.5 | 9 | 93 | | 23-25 diorite<br>25-27 porous rock much iron oxide<br>27-32.5 diorite (all magnetic) fine chalco-pyrite and pyrite | 945 | 23-32.5 | 9.5' | |
| 3 | 32.5 | 42 | 9.5 | 9.5 | 100 | | 32.5-33 diorite<br>33-35 silicified diorite with iron oxide seams<br>35-37 granodiorite<br>37-39 silicified diorite with iron oxide | 946 | 32.5-51 | 18.5 | |
| 4 | 42 | 51 | 9 | 9 | 100 | | 39-42 very hard diorite with epidote and some pink feldspar (Specimen No. 2) All magnetic<br>All diorite with vugs at 45' and 48' with iron oxide. | | | | |
| 5 | 51 | 59.5 | 8.5 | 8.5 | 100 | | Slight mineralization chalcopyrite and pyrite Magnetic<br>Soft granitic rock well mineralized with chalcopyrite and pyrite (Specimen No. 3) | 947 | 51-59.5 | 8.5 | |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd PROPERTY Copper Leaf Section No. HOLE No. 2-68

| | | | | |
|---|---|---|---|---|
| Started | Bearing | Lat. | Collar El. | Logged by Date |
| Completed | Angle from Horiz. | | Bottom. El. | Remarks |
| Driller | Length | Location | Level | |

| Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY |
|---|---|---|---|---|---|---|---|---|---|---|
| 59.5 | 69 | 9.5 | 9.5 | 100 | | Diorite - dense - good coring fine mineralization - chalcopyrite and pyrite. Slightly magnetic | 948 | 59.5-69 | 9.5 | |
| 69 | 78 | 9 | 9 | 100 | | Porous diorite with chalcocite on fracture planes - some chalcopyrite and pyrite. Magnetic | 949 | 69-78 | 9.0 | |
| 78 | 88 | 10 | 9 | 90 | | Poorly mineralized granodiorite with much biotite - magnetic | 950 | 78-88 | 10.0 | |
| 88 | 96.5 | 8.5 | 8.5 | 100 | | Coarse grained diorite Specimen No. 4 Iron oxide veinlets some chalcopyrite and pyrite Magnetic | 2201 | 88-100 | 12.0 | |
| 96.5 | 105 | 8.5 | 8.5 | 100 | | 96.5-100 as above (Magnetic) | | | | |
| | | | | | | 100-103 fine grained dyke (non-magnetic) poor mineralization | 2202 | 100-107 | 7.0 | |
| | | | | | | 103-105 granodiorite (slightly magnetic) poor mineralization with pyrite | | | | |
| 105 | 114 | 9 | 9 | 100 | | 105-107 same as 103-105 | | | | |
| | | | | | | 107-110 diorite | 2203 | 107-111 | 4.0 | |
| | | | | | | 110-114 granodiorite poor mineralization pyrite only | | | | |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd PROPERTY Copper Leaf Section No. HOLE No. 2-68

| | | | | |
|---|---|---|---|---|
| Started | Bearing | Lat. | Collar El. | Logged by Date |
| Completed | Angle from Horiz. | | Bottom. El. | Remarks |
| Driller | Length | Location | Level | |

| | Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 114 | 123 | 9 | 9 | 100 | | Granodiorite-poor mineralization slightly magnetic. Medium hard | 2204 | 111-123 | 12' | |
| 13 | 123 | 132 | 9 | 9 | 100 | | queer granitic rock-magnetic-Specimen #5 medium soft | 2205 | 123-132 | 9' | |
| 14 | 132 | 141 | 9 | 9 | 100 | | same as 123-132 with iron oxide on fracture faces. Poor mineralization, slightly magnetic | 2206 | 132-141 | 9' | |
| 15 | 141 | 150 | 9 | 9 | 100 | | Same - all has much plagioclase | 2207 | 141-150 | 9' | |
| 16 | 150 | 159 | 9 | 9 | 100 | | Same - all has much plagioclase | | | | |
| 17 | 159 | 171 | 12 | 10 | 80 | | 159-163 Same - all has much plagioclase | 2208 | 150-163 | 13' | |
| | | | | | | | 163-169 diorite with chalcopyrite and pyrite-hard 2' core lost drillers report "open space"- non-magnetic | 2209 | 163-169 | 6' | |
| | | | | | | | 169-171 same old queer stuff | 2210 | 169-181 | 12 | |
| 18 | 171 | 181 | 10 | 9.5 | 95 | | 171-173 as above 173-181 diorite poor mineralization-non-magnetic | | | | |
| 19 | 181 | 191 | 10 | 9 | 90 | | diorite with porous sections. Fair pyrite low chalcopyrite | 2211 | 181-191 | 10 | |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd PROPERTY Copper Leaf Section No. HOLE No. 2-68

| | | | | |
|---|---|---|---|---|
| Started | Bearing | Lat. | Collar El. | Logged by Date |
| Completed | Angle from Horiz. | | Bottom. El. | Remarks |
| Driller | Length | Location | Level | |

| Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY |
|---|---|---|---|---|---|---|---|---|---|---|
| 191 | 200.5 | 9.5 | 9.5 | 100 | | Dark-coarse grained diorite-fair cubic iron poor chalcopyrite-slightly magnetic. medium hard | 2212 | 191-200.5 | 9.5 | |
| 200.5 | 209.5 | 9 | 9 | 100 | | same as 191-200.5 | 2213 | 200.5-214 | 13.5 | |
| 209.5 | 219 | 9.5 | 9 | 95 | | 209.5-214 same as above<br>214-219 silicified diorite with pyrite and some chalcopyrite (fine grained) | 2214 | 214-221 | 7 | |
| 219 | 228 | 9 | 9 | 100 | | 219-221 same as above non magnetic<br>221-227 coarse grained diorite poor mineralization (fairly magnetic) | 2215 | 221-244 | 23 | |
| 228 | 244 | 16 | 9 | 56 | | Well mineralized with pyrite - no chalcopyrite diorite with quartz veinlets | 2216 | 244-258 | 14 | |
| 244 | 254 | 10 | 9 | 90 | | Dark porphyritic diorite-poor mineralization | | | | |
| 254 | 264 | 10 | 10 | 100 | | 254-258 same (non magnetic)<br>258-264 quartz diorite - pyrite no chalcopyrite | 2217 | 258-265 | 7 | |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd PROPERTY Copper Leaf Section No. HOLE No. 2-68

| | | | | |
|---|---|---|---|---|
| Started | Bearing | Lat. | Collar El. | Logged by Date |
| Completed | Angle from Horiz. | Dep. | Bottom. El. | Remarks |
| Driller | Length | Location | Level | |

| | Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 27 | 264 | 273 | 9 | 9 | 100 | | 264-265 same as above<br>265-273 very dark fine grained diorite poor mineralization (non magnetic) | 2218 | 265-275 | 10 | |
| 28 | 273 | 283 | 10 | 10 | 100 | | Same as above 273-275<br>275-283 quartz diorite - fair pyrite mineralized with some chalcopyrite-magnetic | 2219 | 275-294 | 19 | |
| 29 | 283 | 292 | 9 | 9 | 100 | | Same as above | | | | |
| 30 | 292 | 302 | 10 | 10 | 100 | | 292-294 same as above<br>294-302 diorite with silicified bands-fair pyrite and chalcopyrite strong magnetite | 2220 | 294-302 | 8 | |
| 31 | 302 | 311.5 | 9.5 | 9.5 | 100 | | course grained diorite-some pyrite & magnetite<br>311.5-313 same | 2221 | 302-313 | 11 | |
| 32 | 311.5 | 320 | 8.5 | 8.5 | 100 | | 313-320 same with quartz veinlets slight mineralization & slightly magnetic | 2222 | 313-323 | 10 | |
| 33 | 320 | 333 | 13 | 9 | 70 | | 320-323 same<br>323-330 quartz diorite well mineralized with pyrite and chalcopyrite. Strong magnetite<br>330-333 same as 313-320 | 2223 | 323-330 | 7 | |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd PROPERTY Copper Leaf Section No. HOLE No. 2-68

| | | | | |
|---|---|---|---|---|
| Started | Bearing | Lat. | Collar El. | Logged by Date |
| Completed | Angle from Horiz. | Dep. | Bottom. El. | Remarks |
| Driller | Length | Location | Level | |

| | Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY- | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | 333 | 343 | 10 | 9 | 90 | | 333-335 same as above<br>335-343 Gneissic diorite with fair pyrite and chalcopyrite-strong magnetite | 2224 | 330-335 | 5 | | | | |
| 35 | 343 | 353 | 10 | 9 | 40 | | 343-349-same | 2225 | 335-349 | 14 | | | | |
| 36 | 353 | 363 | 10 | 9 | 90 | | 349-357 diorite dull black<br>357-363 quartz diorite with silicified bands well mineralized with pyrite and some chalco-pyrite -strongly magnetic | 2226 | 349-357 | 8 | | | | |
| | | | | | | | | 2227 | 357-363 | 6 | | | | |
| 37 | 363 | 372 | 9 | 9 | 100 | | 363-366 black lamprophyre dyke well mineralized with pyrite-strong mag.<br>366-372-quartz diorite-well mineralized with pyrite and some chalcopyrite | 2228 | 363-366 | 3 | | | | |
| | | | | | | | | 2229 | 366-376 | 10 | | | | |
| 38 | 372 | 382 | 10 | 9 | 90 | | 372-382 same as above<br>382-383.5 same as above | 2230 | 376-383.5 | 7.5 | | | | |
| 39 | 382 | 392 | 10 | 10 | 100 | | 383.5-388 fine grained light grey silicified rock with very fine chalcopyrite and pyrite-slightly magnetic | 2231 | 383.5-388 | 4.5 | | | | |
| | | | | | | | 388-392 quartz diorite with fair mineralization pyrite and chalcopyrite-strongly magnetic | 2232 | 388-397 | 9 | | | | |

# Drill Hole Log

COMPANY Copper Ridge Mines Ltd., PROPERTY Copper Leaf Section No. HOLE No. 2-68

| Started | Bearing | Lat. | Collar El. | Logged by | Date |
|---|---|---|---|---|---|
| Completed | Angle from Horiz. | Dep. | Bottom. El. | Remarks | |
| Driller | Length | Location | Level | | |

| | Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 392 | 401 | 9 | 9 | 100 | | 392-397-same<br>397-401 highly silicified quartz diorite well mineralized with chalcopyrite and pyrite medium mag. | 2233 | 397-401 | 4' | |
| 41 | 401 | 410 | 9 | 9 | 100 | | quartz diorite, fair mineralization in pyrite with some chalcopyrite. Strongly magnetic | 2234 | 401-410 | 9' | |
| 42 | 410 | 420 | 10 | 10 | 100 | | Same | 2235 | 410-420 | 10 | |
| 43 | 420 | 429 | 9 | 9 | 100 | | Same with silicified bands at 424 and 427 some fine bornite | 2236 | 420-429 | 9 | |
| 44 | 429 | 438.5 | 9.5 | 9.5 | 100 | | quartz diorite with fine pyrite and very little chalcopyrite. Med mag. | 2237 | 429-438.5 | 9.5 | |
| 45 | 438.5 | 448 | 9.5 | 9.5 | 100 | | diorite with gneissic texture slight mineralization. pyrite and chalcopyrite-med mag. | 2238 | 438.5-448 | 9.5 | |
| 46 | 448 | 457.5 | 9.5 | 9.5 | 100 | | strong magnetic. quartz diorite with small amount pyrite and chalcopyrite | 2239 | 448-457.5 | 9.5 | |

# Drill Hole Log

COMPANY | PROPERTY | Section No. | HOLE No.

| | | | | |
|---|---|---|---|---|
| Started | Bearing | Lat. | Collar El. | Logged by / Date |
| Completed | Angle from Horiz. | Dep. | Bottom. El. | Remarks |
| Driller | Length | Location | Level | |

| Footage From | Footage To | Interval | RECOVERY Ft. | RECOVERY % | Graphic Log | DESCRIPTION | Sample No. | From - To | Interval | ASSAY |
|---|---|---|---|---|---|---|---|---|---|---|
| 457.5 | 480 | 22.5 | 20 | 86 | | 457.5-470 - quartz diorite-slightly mineralized pyrite and chalcopyrite - med. magnetic | 2240 | 457.5-470 | 12.5 | |
| | | | | | | 470-471 silicified band with good mineralization chalcopyrite, pyrite and fine bornite | 2241 | 470-480 | 10 | |
| 480 | 500 | 20 | 20 | 20 | | granodiorite poor mineralization - some cubic pyrite - slightly magnetic | 2242 | 480-500 | 20 | |

TO:

Cannon Engineering Ltd.,

617 - 744 West Hastings Street,

Vancouver. B.C.

# Certificate of Assay

COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION
WARNOCK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS: ELDRICO

FILE NO. 3853

DATE January 7, 1969

We Hereby Certify that the following are the results of assays made by us upon submitted ORE & DRILL CORE samples

| MARKED | GOLD- OUNCES PER TON | GOLD- VALUE PER TON | SILVER OUNCES PER TON | Copper(Cu) PER CENT. | ($MoS_2$) PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. |
|---|---|---|---|---|---|---|---|---|---|
| | | $ | | | | | | | |
| 174 ORE | 0.02 | 0.70 | 1.7 | 2.06 | | | | | |
| 175 DRILL CORE | 0.01 | 0.35 | 0.1 | 0.07 | 0.01 | | | | |
| 176 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 177 | 0.01 | 0.35 | Trace | 0.02 | 0.01 | | | | |
| 178 | Trace | -- | 0.2 | 0.02 | | | | | |
| 179 | 0.01 | 0.35 | 0.1 | 0.04 | 0.01 | | | | |
| 180 | 0.01 | 0.35 | 0.1 | 0.05 | 0.01 | | | | |
| 181 | 0.01 | 0.35 | 0.2 | 0.32 | 0.01 | | | | |
| 182 | 0.01 | 0.35 | Trace | 0.09 | | | | | |
| 183 | 0.02 | 0.70 | 0.5 | 2.41 | | | | | |
| 184 | 0.01 | 0.35 | Trace | 0.03 | | | | | |
| 185 | 0.01 | 0.35 | 0.2 | 0.09 | 0.01 | | | | |
| 186 | 0.01 | 0.35 | 0.1 | 0.25 | 0.01 | | | | |
| 187 | 0.01 | 0.35 | 0.2 | 0.06 | 0.01 | | | | |
| 188 | 0.02 | 0.70 | 0.1 | 0.29 | 0.02 | | | | |

/hc Gold calculated at $ ..... per ounce

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

H. Fier Co.
Provincial Assayer

FORM G96 (REV. 5-68)

TO:

Cannon Engineering Ltd. (2)


# Certificate of Assay

## COAST ELDRIDGE

PROFESSIONAL SERVICES DIVISION

WARNOCK HERSEY INTERNATIONAL LIMITED

125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS: ELDRICO


FILE NO. 3853

DATE January 7, 1969

**We Hereby Certify** *that the following are the results of assays made by us upon submitted* ORE & DRILL CORE *samples*

| MARKED | GOLD | | SILVER | Copper (Cu) | Molybdenite ($MoS_2$) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | OUNCES PER TON | VALUE PER TON | OUNCES PER TON | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. |
| DRILL CORE | | $ | | | | | | | |
| 189 | 0.01 | 0.35 | 0.1 | 0.04 | | | | | |
| 190 | 0.02 | 0.70 | 0.2 | 0.03 | | | | | |
| 191 | 0.02 | 0.70 | 0.3 | 0.45 | 0.01 | | | | |
| 192 | 0.01 | 0.35 | 0.2 | 0.03 | | | | | |
| 193 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 194 | 0.01 | 0.35 | Trace | 0.20 | 0.01 | | | | |
| 195 | Trace | " | Trace | 0.02 | | | | | |
| 196 | 0.01 | 0.35 | Trace | 0.26 | | | | | |
| 197 | Trace | " | Trace | 0.01 | | | | | |
| 198 | 0.01 | 0.35 | Trace | 0.14 | 0.01 | | | | |
| 199 | 0.01 | 0.35 | Trace | 0.06 | | | | | |
| 200 | 0.01 | 0.35 | Trace | 0.07 | | | | | |
| 918 | 0.01 | 0.35 | Trace | 0.02 | | | | | |
| 919 | 0.01 | 0.35 | Trace | 0.07 | 0.01 | | | | |
| 920 | 0.01 | 0.35 | Trace | 0.02 | | | | | |

/hc *Gold calculated at $ ..... per ounce*

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

H. Sturge

*Provincial Assayer*

FORM G96 (REV. 5-68)

TO:

Cannon Engineering Ltd. (3)

# Certificate of Assay


COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION
WARNOCK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

PHONE: (604) 876-41
TELEX: 04-50353
CABLE ADDRESS: ELDRICO


FILE NO. 3853

DATE January 7, 1

**We Hereby Certify** *that the following are the results of assays made by us upon submitted* ORE & DRILL CORE *samples*

| MARKED | GOLD | | SILVER | Copper (Cu) | Molybdenite ($MoS_2$) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | OUNCES PER TON | VALUE PER TON | OUNCES PER TON | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. |
| DRILL CORE | | $ | | | | | | | |
| 921 | 0.01 | 0.35 | Trace | 0.04 | | | | | |
| 922 | 0.01 | 0.35 | Trace | 0.06 | | | | | |

/hc

*Gold calculated at $ ..... per ounce*

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

H. Sturgeon

*Provincial Assayer*

FORM G96 (REV. 5-68)

TO:

Cannon Engineering Ltd.,

617 - 744 West Hastings Street

Vancouver, B.C.

PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS:
ELDRICO

# Certificate of Assay

## COAST ELDRIDGE

PROFESSIONAL SERVICES DIVISION

WARNOCK HERSEY INTERNATIONAL LIMITED

125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

FILE NO. A.3-C.4-68-3854

DATE January 7, 1969

**We Hereby Certify** *that the following are the results of assays made by us upon submitted* DRILL CORE *samples*

| MARKED | GOLD | | SILVER | Copper (Cu) | Molybdenite ($MoS_2$) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | OUNCES PER TON | VALUE PER TON | OUNCES PER TON | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. |
| | | $ | | | | | | | |
| 923 | 0.01 | 0.35 | Trace | 0.03 | | | | | |
| 924 | 0.01 | 0.35 | Trace | 0.04 | | | | | |
| 925 | 0.01 | 0.35 | 0.4 | 0.11 | | | | | |
| 926 | 0.01 | 0.35 | Trace | 0.07 | | | | | |
| 927 | 0.02 | 0.70 | Trace | 0.06 | | | | | |
| 928 | 0.02 | 0.70 | Trace | 0.04 | | | | | |
| 929 | 0.01 | 0.35 | Trace | 0.03 | | | | | |
| 930 | 0.01 | 0.35 | Trace | 0.06 | 0.01 | | | | |
| 931 | 0.01 | 0.35 | 0.1 | 0.03 | | | | | |
| 932 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 933 | 0.02 | 0.70 | Trace | 0.03 | | | | | |
| 934 | 0.01 | 0.35 | 0.3 | 0.04 | | | | | |
| 935 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 936 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 937 | 0.01 | 0.35 | Trace | 0.01 | | | | | |

*Gold calculated at $ ..... per ounce*

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

/jp

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

H. Shaw

*Provincial Assayer*

FORM G96 (REV. 5-68)

TO:

Cannon Engineering Ltd. (2)

# Certificate of Assay


COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION
WARNOCK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS: ELDRICO


FILE NO. A.3-C.4-69-3854

DATE January 7, 1969

**We Hereby Certify** *that the following are the results of assays made by us upon submitted* DRILL CORE *samples*

| MARKED | GOLD | | SILVER | Copper (Cu) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | OUNCES PER TON | VALUE PER TON | OUNCES PER TON | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. |
| | | $ | | | | | | | |
| 938 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 939 | 0.01 | 0.35 | 0.1 | 0.01 | | | | | |
| 940 | 0.01 | 0.35 | 0.3 | 0.01 | | | | | |
| 941 | 0.01 | 0.35 | 0.3 | 0.01 | | | | | |

*Gold calculated at $* ..... *per ounce*

Note. Rejects retained one week.
Pulps retained one month.
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Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

H. Sterling

*Provincial Assayer*

FORM G96 (REV. 5-68)

TO:

Cannon Engineering Ltd.,

617 - 744 West Hastings Street

Vancouver, B.C.


COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION
WARNOCK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS: ELDRICO


# Certificate of Assay

FILE NO. A.3-C.2-69-3903

DATE January 13, 1969

We Hereby Certify that the following are the results of assays made by us upon submitted DRILL CORE samples

| MARKED | GOLD | | SILVER | Copper (Cu) | Molybdenite ($MoS_2$) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | OUNCES PER TON | VALUE PER TON | OUNCES PER TON | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. |
| | | $ | | | | | | | |
| 943 | 0.01 | 0.35 | 0.1 | 0.03 | 0.005 | | | | |
| 944 | 0.02 | 0.70 | 0.2 | 0.02 | 0.005 | | | | |
| 945 | 0.01 | 0.35 | 0.1 | 0.03 | 0.005 | | | | |
| 946 | 0.01 | 0.35 | Trace | 0.03 | | | | | |
| 947 | 0.01 | 0.35 | 0.2 | 0.03 | 0.005 | | | | |
| 948 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 949 | 0.01 | 0.35 | 0.2 | 0.03 | 0.005 | | | | |
| 950 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 2201 | 0.01 | 0.35 | 0.2 | 0.02 | | | | | |
| 2202 | 0.01 | 0.35 | 0.2 | 0.03 | | | | | |
| 2203 | 0.01 | 0.35 | 0.2 | 0.03 | | | | | |
| 2204 | 0.01 | 0.35 | 0.3 | 0.02 | | | | | |
| 2205 | 0.02 | 0.70 | Trace | 0.02 | | | | | |
| 2206 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 2207 | 0.01 | 0.35 | Trace | 0.02 | | | | | |

Gold calculated at $ ..... per ounce

Note. Rejects retained one week.
/jp Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

H. J. Rayfield

Provincial Assayer

FORM G96 (REV. 5-68)

TO:

Cannon Engineering Ltd. (2)

# Certificate of Assay

## COAST ELDRIDGE

PROFESSIONAL SERVICES DIVISION

WARNOCK HERSEY INTERNATIONAL LIMITED

125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS: ELDRICO

FILE NO. A.3-C.2-69-3903

DATE January 13, 1969

We Hereby Certify that the following are the results of assays made by us upon submitted DRILL CORE samples

| MARKED | GOLD | | SILVER | Copper (Cu) | Molybdenite ($MoS_2$) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | OUNCES PER TON | VALUE PER TON | OUNCES PER TON | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. |
| | | $ | | | | | | | |
| 2208 | 0.01 | 0.35 | Trace | 0.02 | | | | | |
| 2209 | 0.02 | 0.70 | 0.2 | 0.01 | | | | | |
| 2210 | 0.02 | 0.70 | 0.1 | 0.01 | | | | | |

*Gold calculated at $ ..... per ounce*

Note. Rejects retained one week.
Pulps retained one month.
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*Provincial Assayer*

FORM G96 (REV. 5-68)

TO:

Cannon Engineering Ltd.,

617 - 744 West Hastings Street

Vancouver, B.C.


# Certificate of Assay

COAST ELDRIDGE

PROFESSIONAL SERVICES DIVISION

WARNOCK HERSEY INTERNATIONAL LIMITED

125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

Member Canadian Testing Association

PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS: ELDRICO


FILE NO. A.3-C.5-69-3902

DATE January 14, 1969

**We Hereby Certify** *that the following are the results of assays made by us upon submitted* DRILL CORE *samples*

| MARKED | GOLD | | SILVER | Copper (Cu) | Nickel (Ni) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | OUNCES PER TON | VALUE PER TON | OUNCES PER TON | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. |
| | | $ | | | | | | | |
| 2211 | 0.05 | 1.75 | 0.3 | 0.02 | | | | | |
| 2212 | 0.01 | 0.35 | 0.2 | 0.02 | | | | | |
| 2213 | 0.01 | 0.35 | 0.2 | 0.01 | | | | | |
| 2214 | 0.40 | 14.00 | 0.2 | 0.03 | | | | | |
| 2215 | 0.02 | 0.70 | 0.2 | 0.03 | | | | | |
| 2216 | 0.02 | 0.70 | 0.1 | 0.03 | | | | | |
| 2217 | 0.01 | 0.35 | 0.1 | 0.03 | | | | | |
| 2218 | 0.02 | 0.70 | 0.3 | 0.02 | | | | | |
| 2219 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 2220 | 0.01 | 0.35 | 0.1 | 0.03 | | | | | |
| 2221 | 0.01 | 0.35 | Trace | 0.02 | Trace | | | | |
| 2222 | 0.02 | 0.70 | 0.1 | 0.03 | | | | | |
| 2223 | 0.01 | 0.35 | 0.1 | 0.03 | | | | | |
| 2224 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 2225 | 0.02 | 0.70 | 0.2 | 0.03 | | | | | |

*Gold calculated at $* ..... *per ounce*

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

/jp

H. Spence

*Provincial Assayer*

FORM G36 (REV. 5-68)

TO:

Cannon Engineering Ltd. (2)

PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS:
ELDRICO

# Certificate of Assay

COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION
WARNOCK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

FILE NO. A.3-C.2-69-3902

DATE January 14, 1969

We Hereby Certify that the following are the results of assays made by us upon submitted DRILL CORE samples

| MARKED | GOLD | | SILVER | Copper (Cu) | Nickel (Ni) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | OUNCES PER TON | VALUE PER TON | OUNCES PER TON | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. | PER CENT. |
| 2226 | 0.02 | $ 0.70 | 0.3 | 0.02 | | | | | |
| 2227 | 0.03 | 1.05 | 0.3 | 0.03 | | | | | |
| 2228 | 0.01 | 0.35 | Trace | 0.02 | | | | | |
| 2229 | 0.02 | 0.70 | Trace | 0.02 | | | | | |
| 2230 | 0.01 | 0.35 | Trace | 0.03 | | | | | |
| 2231 | 0.02 | 0.70 | Trace | 0.18 | | | | | |
| 2232 | 0.03 | 1.05 | 0.1 | 0.02 | | | | | |
| 2233 | 0.11 | 3.85 | 0.3 | 0.02 | | | | | |
| 2234 | 0.01 | 0.35 | 0.1 | 0.03 | | | | | |
| 2235 | 0.01 | 0.35 | 0.1 | 0.02 | | | | | |
| 2236 | 0.02 | 0.70 | 0.1 | 0.03 | | | | | |
| 2237 | 0.02 | 0.70 | 0.2 | 0.05 | | | | | |
| 2238 | 0.01 | 0.35 | Trace | 0.02 | | | | | |
| 2239 | 0.01 | 0.35 | Trace | 0.02 | Trace | | | | |
| 2240 | 0.01 | 0.35 | Trace | 0.02 | | | | | |
| 2241 | 0.01 | 0.35 | Trace | 0.03 | | | | | |
| 2242 | 0.01 | 0.35 | 0.1 | 0.01 | | | | | |

*Gold calculated at $ ..... per ounce*

Note. Rejects retained one week.
Pulps retained one month.
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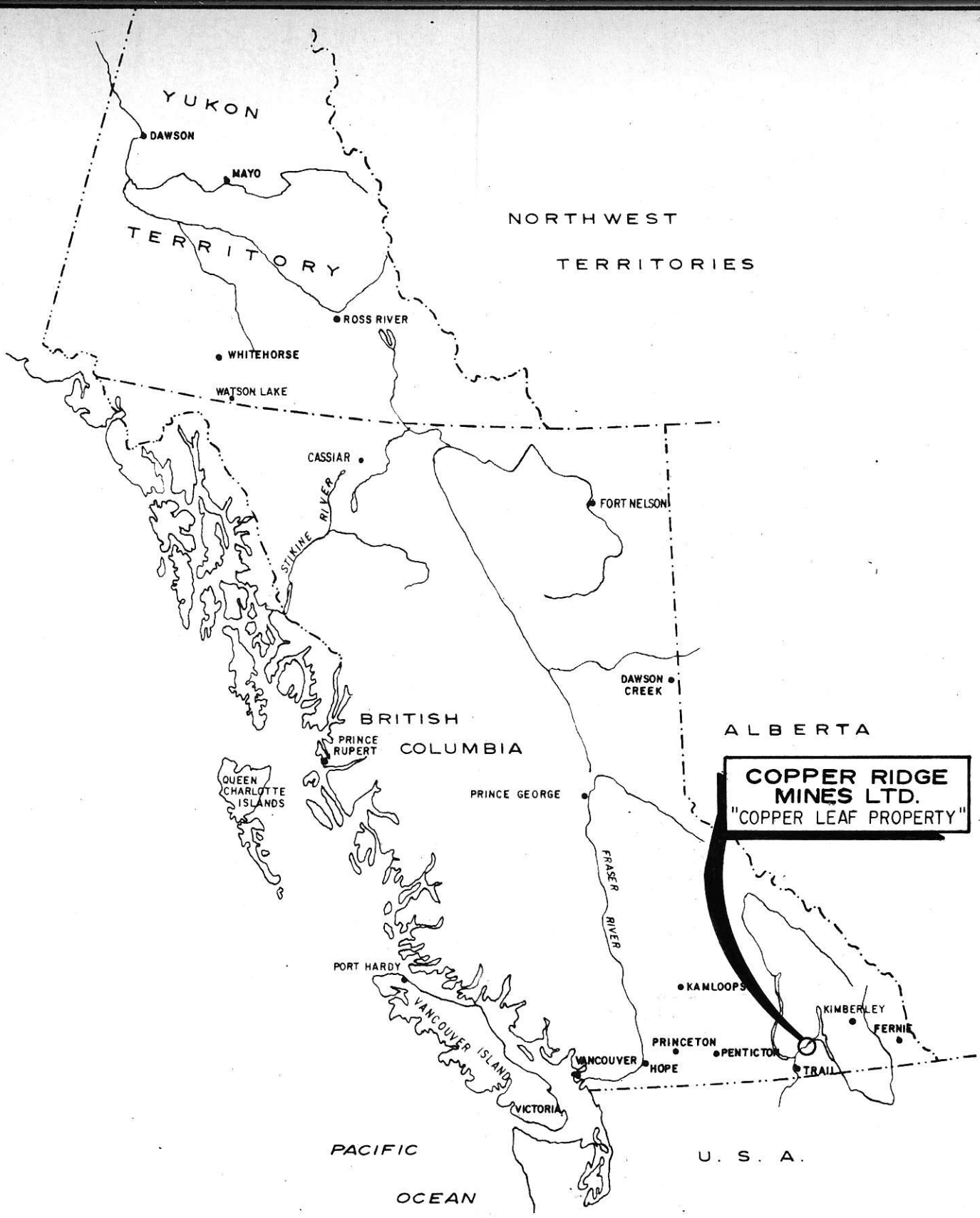
FORM G96 (REV. 5-68)

H. Eng

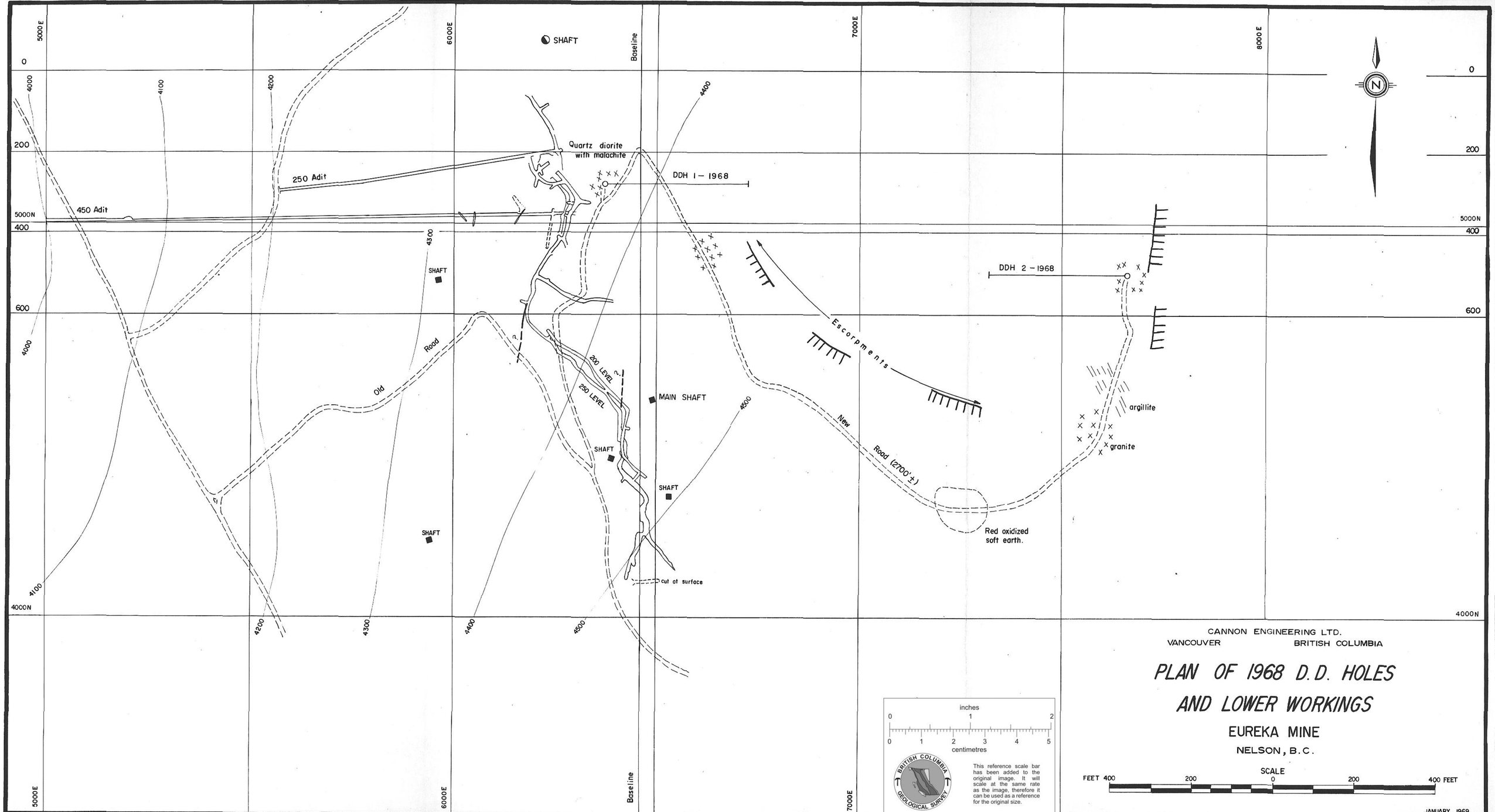
*Provincial Assayer*




CANNON ENGINEERING LTD.
VANCOUVER BRITISH COLUMBIA

# LOCATION MAP
## COPPER RIDGE MINES LTD.
"COPPER LEAF PROPERTY"
NELSON
B.C.

| NTS. | DATE. JAN. 1969 | FIG. No. |
|---|---|---|




CANNON ENGINEERING LTD.
VANCOUVER BRITISH COLUMBIA

# PLAN OF 1968 D.D. HOLES AND LOWER WORKINGS

## EUREKA MINE

NELSON, B.C.

SCALE

FEET 400 200 0 200 400 FEET

JANUARY, 1969

WEST

EAST


| ASSAY ORDER : | Sample no. | Width ' | Au. (oz./t.) | Ag. (oz./t.) | Cu. (%) | $MoS_2$ (%) | Ni. (%) |
|---|---|---|---|---|---|---|---|
| | 180 | 9' | .01 | .10 | .05 | .01 | — |

CANNON ENGINEERING LTD.
VANCOUVER BRITISH COLUMBIA

# SECTION THROUGH D.D.H. No. 1

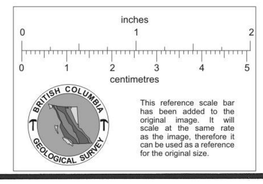
## EUREKA MINE

NELSON, B.C.

SCALE

FEET 30 0 30 60 90 FEET

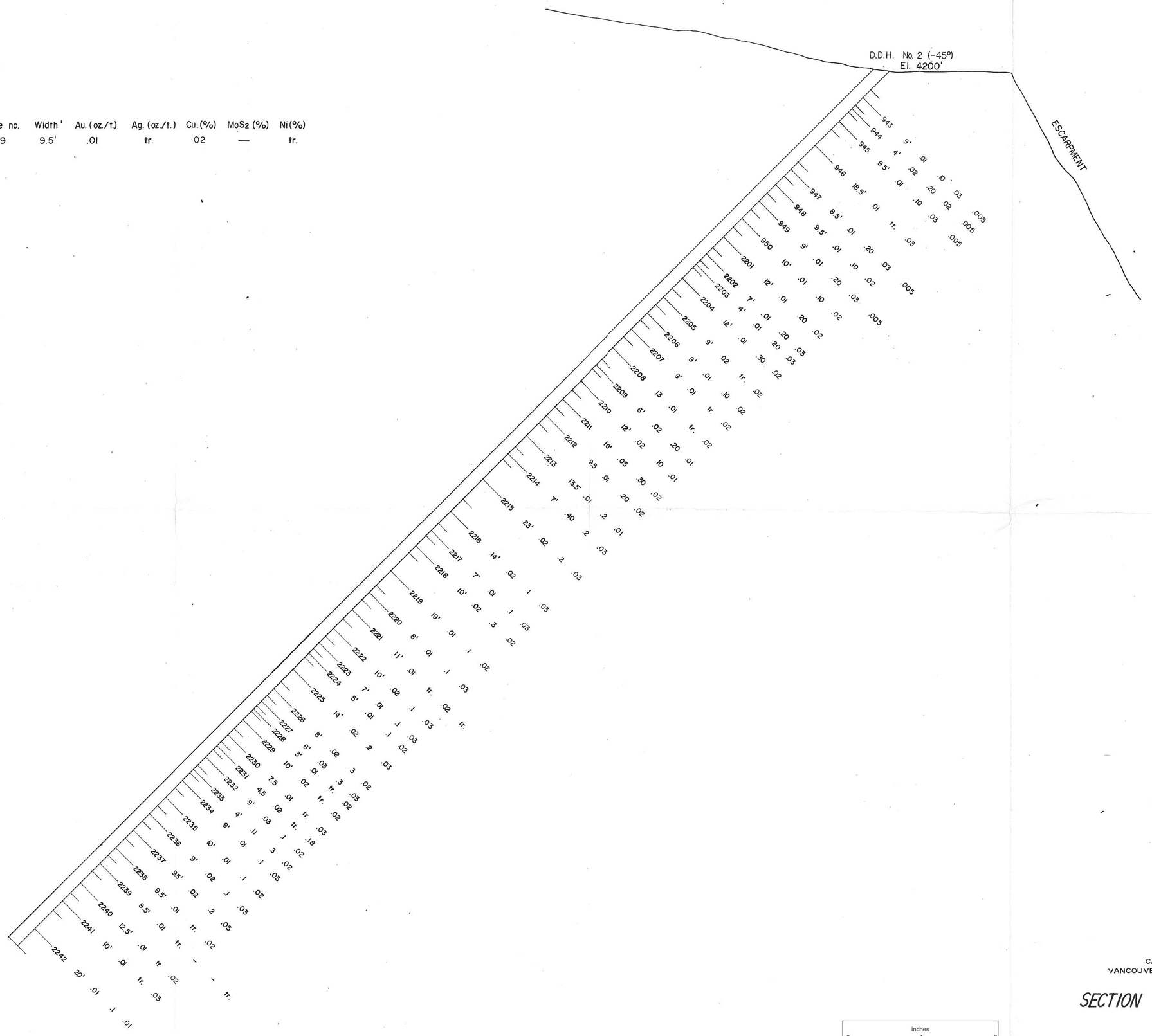
January, 1969



WEST

EAST

| ASSAY ORDER : | Sample no. | Width ' | Au. (oz./t.) | Ag. (oz./t.) | Cu. (%) | $MoS_2$ (%) | Ni (%) |
|---|---|---|---|---|---|---|---|
| | 2239 | 9.5' | .01 | tr. | .02 | — | tr. |




CANNON ENGINEERING LTD.
VANCOUVER BRITISH COLUMBIA

# SECTION THROUGH D.D.H. No. 2

## EUREKA MINE

NELSON, B.C.

SCALE

FEET 30 0 30 60 90 FEET

inches
0 1 2
0 1 2 3 4 5
centimetres

BRITISH COLUMBIA GEOLOGICAL SURVEY

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.

January, 1969