HECLA MINING COMPANY OF CANADA LTD.

SUITE 2009, 1177 WEST HASTINGS STREET VANCOUVER, BRITISH COLUMBIA CANADA V6E 2K3

January 8, 1975.

Mr. E. J. Bowles, Gold Commissioner, Department of Mines and Petroleum Resources, Room 409, Douglas Bldg., Victoria, B. C.

Dear Mr. Bowles:

JAN 9 1974 34

Re: In, Out and C Claims, Liard Mining Division

Further to my letter dated October 29, 1974 re statutory declarations with respect to 115 mineral claims forfeited by Hecla Operating Company, I enclose herewith the following information:

- 1) Sketch Map showing location of 1974 Drill Holes and part of 1972 IP Survey Grid-Hickman Project, Liard M.D., B. C.
- 2) Geological core logs diamond drill holes 1-5. Work performed on the subject claims in 1971, 1972 and 1973 has already been reported to your department.

Yours very truly,

HECLA MINING COMPANY OF CANADA LTD.

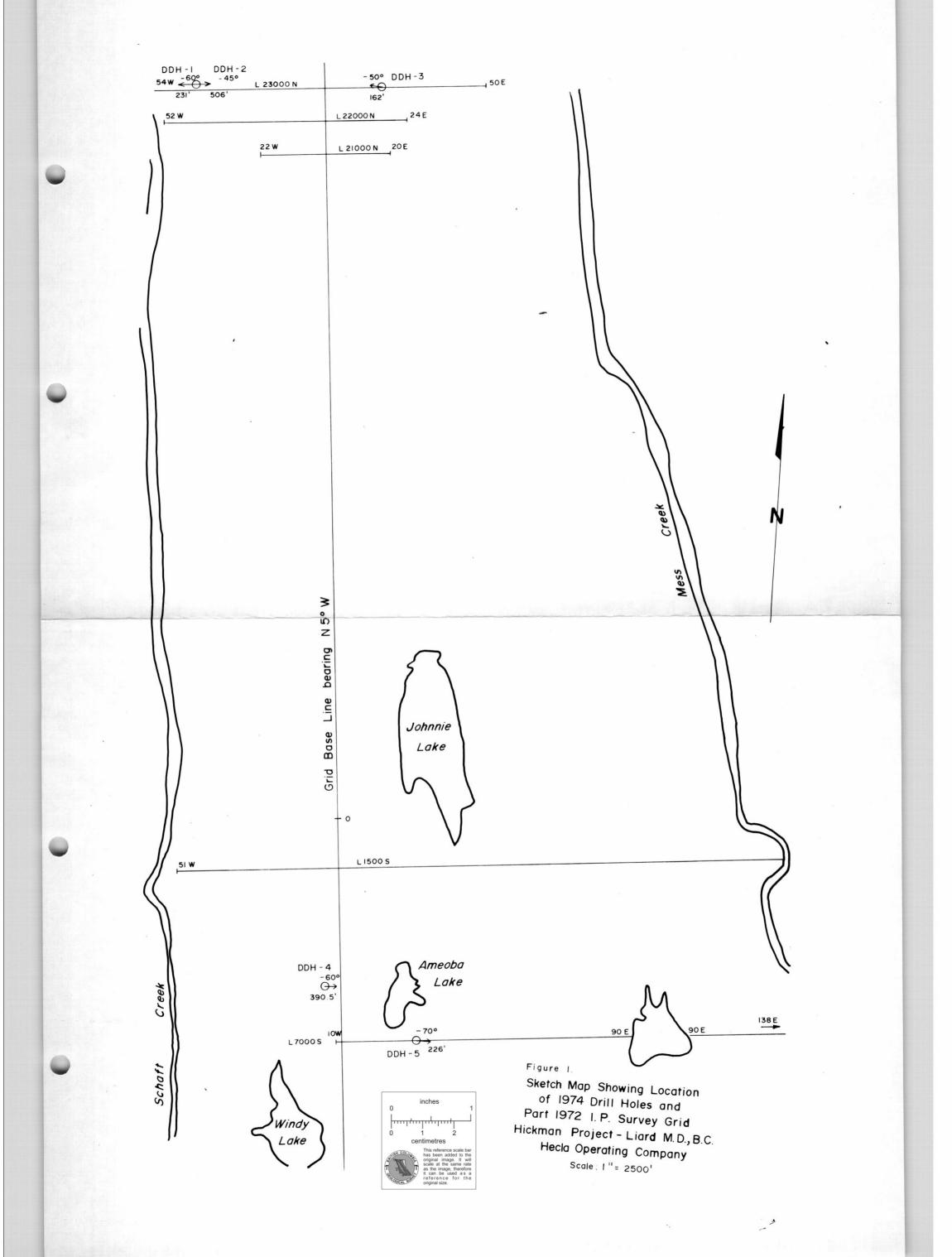
Zich A. Ostensoe

E. A. Ostensoe, Exploration Supervisor.

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Geological Core Log

Location:

23258N, 4030W

Elevation:

2950 feet

Bearing:

due West

Inclination:

-60°W

Length:

231 feet

Recovery:

94%

Date drilled:

June, 1974

Core storage:

Schaft Creek, B.C.

0 - 6'

Overburden

6 - 153'

Grey-green, fine grained Andesite tuff. Banding at 25 - 30° to core. Minor pyrite with trace amounts of chalcopyrite. Minor amounts of hematite along quartz-calcite veins up to 130'. Local high alteration.

70 - 90'

Strongly schistose with minor bands of

siliceous tuff.

76 - 77' Bleached rock.

80 - 110' Much coarse pyrite with very minor

chalcopyrite.

153 - 156'

Andesite dyke. Biotite-plagioclase phenocrysts.

156 - 196'

Banded, fine grained Andesite tuff with minor pyrite and trace amounts of chalcopyrite. Rock is more calcareous with CaCo₃ veins containing siliceous

fragments.

196 - 231'

Medium to coarse grained diorite with approximately

50% mafics.

200 - 220' Pyritic along fractures.

231'

End of hole.

Geological Core Log

Location: Elevation: Bearing: Inclination: Length: Recovery Date drilled: Core storage:	23258N, 4030W 2950 feet due East -45°E 506 feet 91% June, 1974 Schaft Creek, B. C.
0 - 10'	Overburden
10 - 18'	Siliceous to schistose, grey-green tuff fractures filled with CaCo ₃ and hematite. Minor pyrite and sparse chalcopyrite.
18 - 21'	Andesite dyke.
18 - 60'	Andesite tuff as above, banding at approximately 30°. Tuff is pyritic with minor chalcopyrite. Local high alteration.
60 - 72'	Andesite sill or flow. Foliation at 30°. Biotite and K-feldspar with CaCo ₃ veins containing chalcopyrite. High degree of alteration.
72 - 82'	Andesite tuff. Very pyritic and siliceous. High alteration. 78-1/2' Fault.
82 - 89'	Medium grained, unaltered Andesite dyke. Minor hematite along shears.
89 - 166'	Siliceous, schistose and micaceous tuff. Chloritic along shears. Minor pyrite and chalcopyrite. Local high alteration with minor epidote. Banding at approximately 30° to the core.
166 - 193'	Andesite flow, fine grained with coarse to disseminated pyrite. Local high alteration.
193 - 205'	Andesite tuff as above.
205 - 207'	Dacite dyke. Bleached rock on contacts.
207 - 228' -	Andesite tuff. Local coarse pyrite with minor chalcopyrite.
228 - 232'	Augite porphyry basalt dyke. Coarse grained with crystals of pyroxene up to 5mm.

232 - 303'	Andesite tuff. Banded with less pyrite and very minor chalcopyrite. Local high alteration. Some hematite along veinlets. 258 - 259' Shear with graphite.
303 - 318'	Medium to coarse grained dioritized Andesite.
318 - 414'	Thin banded tuff. Local high alteration. Pyritic to 380'. Trace amounts of chalcopyrite. 402.5 - 414' Gouge - probably major fault.
414 - 506'	Andesite with minor banding. Extreme hematite and graphite in gouge. Local high alteration. Rock is distinctly more calcareous. 443 - 461' Gouge. 468 - 475' Gouge.
506'	End of hole.

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Geological Core Log

Location: 23020N, 1820E Elevation: 2570 feet Bearing: S60W Inclination: -50°W Length: 162 feet

Recovery: 89%

Date drilled: June, 1974

Core storage: Schaft Creek, B. C.

0 -26' Overburden 26 -42' Dioritic Andesite. Medium grained with albite-epidote alteration. Some coarse pyrite. Hematite and chlorite along shears. 42 -49' Intrusive dyke. Monzonite? Mafic with magnetite and hematite. 49 - 51' Andesite. Highly altered. 51 - 98.5' Granodiorite(?) Medium to coarse grained. Locally magnetic. Some veins of specularite. Minor pyrite with abundant fine hematite. Chlorite and epidote along shears.

98.5 - 104' Andesite. Fine grained with minor pyrite and epidote.

104 - 127' Granite. Fine grained to aphanitic. Abundant hematite,

minor specularite and pyrite.

127 - 162' Chloritic Andesite with up to 30% granite stringers.

Veinlets of hematite. Minor chalcopyrite and pyrite.

Some albite-epidote alteration.

162' End of hole.

Geological Core Log

Location: Elevation: Bearing: Inclination: Length: Recovery: Date drilled: Core storage:	5231s, 685W 3740 feet due East -60°E 390.5 feet 97% June, 1974 Schaft Creek, B. C.
0 - 9'	Overburden
9 - 91'	Granite. Pink to grey, medium grained with xenoliths of Andesite. Weakly magnetic. Some quartz veining with epidote. Trace amounts of pyrite and minor CaCo3.
91 - 98'	Andesite. Highly altered. Minor pyrite and quartz - CaCo3 veins.
98 - 100'	Granite.
100 - 111'	Andesite with minor granite stringers. Highly altered. Some albite-epidote alteration with epidote veins. Minor coarse pyrite.
111 - 133'	Granite. Medium grained, slightly magnetic. Local high mafics. Epidote along small quartz veins.
133 - 135'	Andesite. High alteration with epidote albite alteration. Coarse pyrite with epidote veins. $1/4$ " of magnetite at 135'.
135 - 150'	Granite. Much assimilated Andesite. Some high feldspathized xenoliths. Minor chalcopyrite with coarse pyrite.
150 - 162'	Andesite with up to 30% granite stringers. Foliation parallel to stringers. Good chalcopyrite and pyrite.
162 - 169'	Granite. Medium grained, weakly magnetic.
169 - 173'	Andesite, highly altered.
173 - 174'	Granite.
174 - 176'	Andesite.
176 - 200'	Granite, medium grained with Andesite kenoliths up to 2'. Disseminated pyrite with traces of chalcopyrite, abundant hematite. Weakly magnetic. 190.5 - 192.5' Andesite.

200 - 220'	Andesite. Highly altered with minor granite stringers. Some foliation at 40°. Epidote and hematite along fractures.
220 - 224'	Granite.
224 - 364'	Andesite. Foliated at 40 - 45°, coarse pyrite along fractures to 250'. Numerous hematite veins. Some quartz - K-feldspar veins as well as granite stringers. Minor epidote and chalcopyrite.
364 - 367'	Granite.
367 - 390.5'	Andesite as above.
390.5'	End of hole.

Geological Core Log

Location:

7000S, 2200E

Elevation:

3110 feet

Bearing:

due East

Inclination:

-70°E

Length:

226 feet

Recovery:

70%

Date drilled:

June, 1974

Core storage:

Schaft Creek, B. C.

0 - 81'

Overburden

81 - 95'

Andesite. Dark grey to black, chloritic with coarse

pyrite. Minor CaCo₃ veins with trace chalcopyrite.

84' Minor gouge.

95 - 178.5'

Sediments, probably argillites, extremely pyritic

and graphitic. Core badly broken. Bedding at 40°

to core. Minor sandstone layers.

124 - 127'

Gouge.

127.5'

Ground core.

178.5 - 204'

Uniform dark grey-green, fine grained Andesite.

204 - 226'

Sediments, thin bedded argillites and minor sandstones.

Bedding at 40°. Minor pyrite and graphite.

204 - 205'

Pebble conglomerate.

226'

End of hole.