

#4513

# NAPIER LAKE PERCUSSION DRILLING REPORT

WEBBER PROJECT

# 1973

# BY

C.M. REBAGLIATI

NOVEMBER 30, 1973

## INTRODUCTION

The Nap Claim group was staked to cover an eastwest fracture system which is occupied by a sheared dense siliceous rock containing from 1 to 10% fine-grained disseminated pyrite. No base metal sulphides were seen in outcrop of the siliceous rock, but copper and zinc geochemical anomalies coincide with the areas of pyrite mineralization. To the east of the geochemical anomalies, outcrops become sparce and there are extensive areas where the overburden is greater than 20 feet deep. This overburden would probably mask any mineralization in the eastward extension of the pyritic zone.

A program of percussion drilling was undertaken to explore for Cu-Zn mineralization within and to determine the extent of the pyritic siliceous zone rather than to explore for any specific or well defined target.

This drilling program successfully located, but did not define, an area of copper mineralization within the pyritic siliceous zone.

# LOCATION

The Nap Claim group is 21 miles south of Kamloops in the Kamloops Mining Division. The property is on N.T.S. Sheet 92-I-8 at latitude 50°25'N longitude 120°17'W. The westermost row of claims cover part of Napier Lake and extend just west of Highway #5.

## ACCESS

Highway #5 traverses the western edge of the property. The central portion of the claim block is serviced by a fairly good gravel road which joins Highway #5 at the north end of Napier Lake.

# TOPOGRAPHY AND VEGETATION

Napier Lake lies at an elevation of 2,371 feet in a narrow, steep-sided valley about 300 feet deep. From the edge of the valley eastward the country rises steadily in gently rolling terraces to an elevation of 3,500 feet above sea level.

These rolling terraces are vegetated by several species of grass and only very sparsely by firs, pines and poplars. Most of the trees are confined to narrow stringlike lines along moist depressions.

#### GEOLOGY

Hornfelsed pyroclastic rocks of the Upper Triassic Nicol Group are the oldest rocks exposed on the property. These rocks have been intruded, along the northern edge of the property, by the Jurassic Wildhorse Batholith which has caused them to be hornfelsed. Contemporaneous to the intrusion of the batholith, an east-west fracture system developed, and was intruded by a dense siliceous rock containing from 1 to 10% fine-grained disseminated pyrite. Subsequent to its intrusion, shearing was again initiated along this zone. Rock ranging from a competent very finegrained quartz diorite to a quartz sericite schist presently occupies this east-west structure. Slabs of these various rocks, cut by a diamond saw, show that as the density of the fracture cleavages increase so does its schistosity. This suggests that the whole zone is of the same composition and the textural differences are due only to the intensity of shearing present.

The siliceous pyritic zone is cut by easterly striking lamprophyre dykes which are probably related to late magmatic phases of the Wildhorse Batholith.

The Wildhorse Batholith consists of a gneissic coarse-grained granite that shows little discernible variation from one outcrop to another.

Rhyolitic to basaltic flows and pyroclastics of the Tertiary Kamloops Group unconformably overlie the Nicola Group, the Wildhorse Batholith and its related rocks.

Late Tertiary sandstone and grit, which are exposed in a dry creek bed in the central part of the property, overlie the eastern extension of the pyritic siliceous zone. This sandstone forms a north-south terrace which follows the contour of the slope. Percussion hole 73-P-3 cut approximately 250 feet of these sediments. West of hole 73-P-3 the sandstone was eroded by glaciation and rapidly thins out up slope to the east. This is verified, as none was intersected in hole 73-P-2.

Napier Lake fills a relatively deep, narrow northerly trending depression which is an expression of a late or post Tertiary fault. Nicola Group rock exposures on the east side of Napier Lake suggest that this is the upthrow side.

The following, are descriptions of four thin sections cut from representative samples of the siliceous pyritic zone. DRILLING

Twelve holes totalling 3,000 feet were percussion drilled to test the large pyritic siliceous zone. Al Miller Percussion Drilling Ltd. of Kamloops was awarded the contract. No minimum footage was required. The drill crew was mobilized on October 4, and drilling began on October 5. Drilling was completed and the drill was removed from the property on October 16. A 3 5/8" bit with a 2 1/4" inside diameter was used for the overburden drilling, and a 2" bit was used once bedrock had been reached.

The drill hole locations are plotted on the Geological Map. This map, the graphic drill logs for the 12 holes, and two geological cross-sections are at the back of the report.

#### ASSAYING

The cuttings were split at the drill site by a 1:8 HUMBLE electric splitter to yield approximately 5 pounds of sample for each 10 foot section. The samples were analyzed by geochemical methods for Cu, Cu-Zn, Cu-Au or Cu-Zn-Au depending on the rock type intersected. The samples from holes 73-P-8 and 73-P-11 returned interesting values and were therefore assayed.

All analyses were done by ACME ANALYTICAL LABORATORIES LTD. of Burnaby, B. C.

#### DISCUSSION OF RESULTS

The testing of the magnetic anomaly on line 102E by percussion hole 73-P-1, returned very low copper values. The anomaly can be attributed to a localized contact phase of the intrusive which contained a slight concentration of magnetite. No pyrrhotite was observed in the cuttings.

Farther to the west, the percussion drilling program extended the pyritic siliceous zone 2,000 feet beyond the easternmost outcrop. In addition to the extension of the siliceous pyritic zone the drilling program successfully located an area of low-grade copper mineralization. While none of the assays are of "ore-grade" they are significant in that they occur within a mineralized zone that has not been defined.

# PETROGRAPHIC REPORT

for

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Mark Rebagliati

by

Clarence Duffy

#### #1000

Mineralogy and Mode:

Plagioclase 45% Tremolite 20% Quartz 20% Sericite 7% Epidote 5% Fyrite 3%

Texture:

The specimen is medium to fine grained. Stubby laths of plagioclase considerably sericitized and saussuritized, especially in the cores, are clearly evident. The other minerals are generally somewhat finer grained than the plagioclase and are anhedral.

## Discussion:

The rock may well have been a basalt made up primarily of plagioclase, orthopyroxene, and clinopyroxene. It has the least altered appearance of the rocks in the suite. Alteration has consisted of hydration, silicification and sulfidation. There are no textural features to indicate shearing in this specimen.

NAP 1

Mineralogy and Mode:

Quartz 40% Sericite 30% Chlorite 15% Albite 10% Pyrite 5%

Texture:

The rock is generally fine grained although there are some larger chlorite, pyrite, and albite grains. There is some alignment of the sericite.

### #1002

Mineralogy and Mode:

Quartz 35% Sericite 35% Chlorite 15% Albite 10% Pyrite 5%

Texture:

The texture is the same as that of NAP 1 except for slightly better sericite alignment.

#1001

Mineralogy and Mode:

Sericite 54% Quartz 30% Albite 10% Chlorite 1% Pyrite tr. Carbonate tr. Void space 5%

#### Texture:

The rock is fine grained with excellent alignment of sericite and early stage augen formation from the shearing of quartz and albite grains. The chlorite shows oxidized rims.

#### Discussion:

1001, 1002, and NAP 1 may well represent more altered forms of 1000. All three of the specimens show evidence of shearing, with it being most pronounced in 1001. 1001 also apparently represents the most altered specimen since in addition to the alteration suffered by the other specimens 1001 appears to have undergone oxidation and leaching of iron magnesium and sulfur.

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#### RECOMMENDATIONS

Interesting but low-grade copper mineralization was encountered in two of the 12 percussion holes drilled on the Nap Claims at Napier Lake. Much of the siliceous pyritic zone remains untested.

This area has definite potential. It is recommended that an induced polarization survey be conducted over the pyritic siliceous zone to define this zone and to outline the areas of various sulphide concentrations. Further percussion drilling or diamond drilling would be in order pending the results of this survey and is presently necessary to adequately explore the area of copper mineralization indicated in hole 73-P-11.

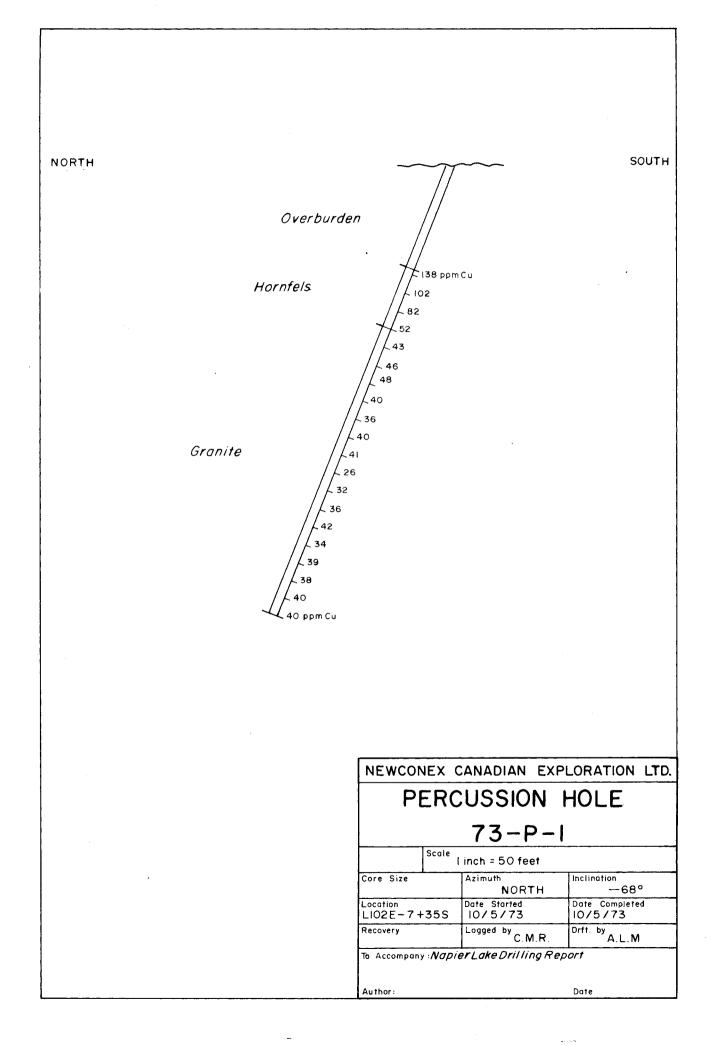
C. M. REBAGL

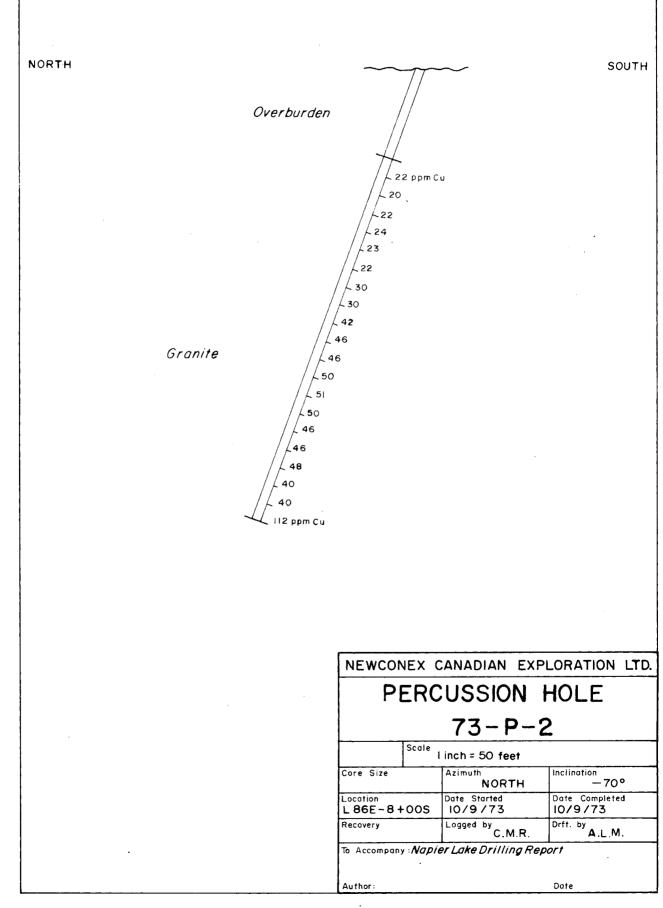
# NAPIER LAKE - COST ESTIMATE

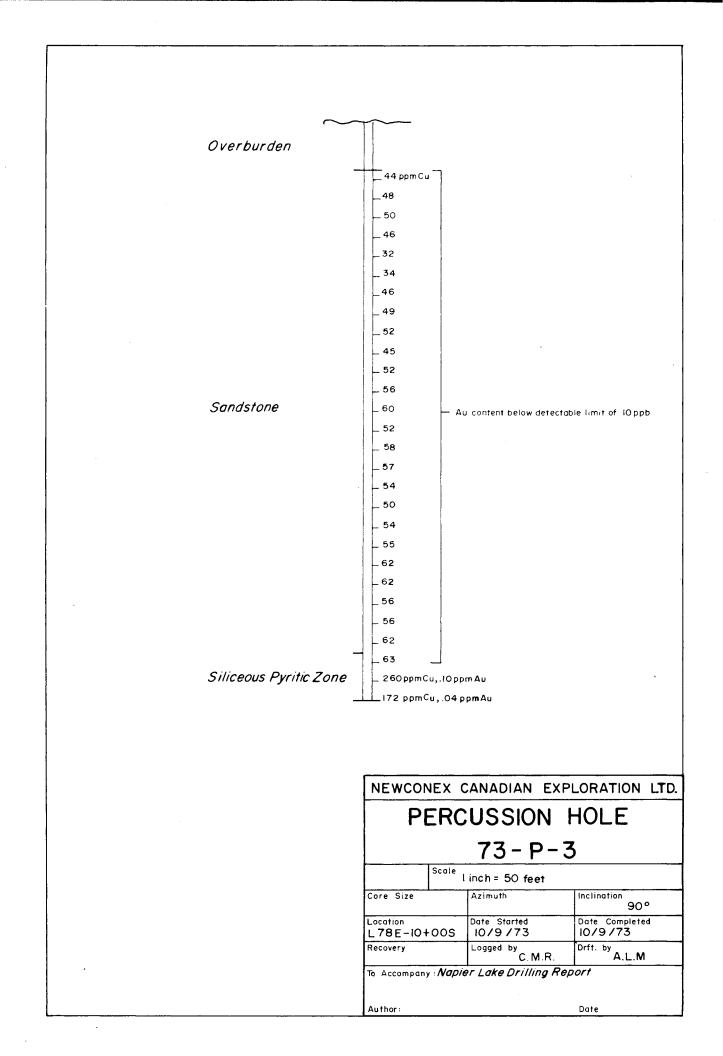
6 miles of I.P.	6	\$400	\$2400
2000' Percussion Drill	ling @	3	6000
200 Geochemical Analy	yses	2	400
Supervision 20 da	ays @	50	1000
Sampler & Helper 20 da	ays @	35	700
Transportation 20 da	ays @	20	400
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Accomutedation 2 me	en @	20 days @	35 700
Report, Drafting and I	Materials		225

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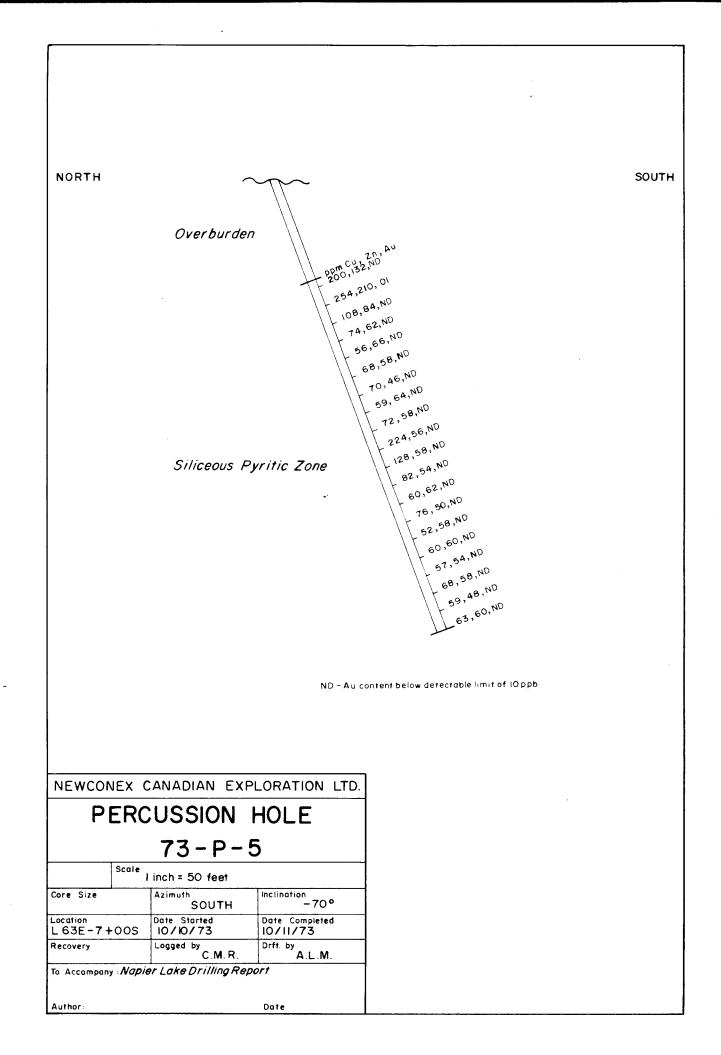






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NORTH Overburden	$\rightarrow$	SOUTH
Overburgen	55 ppmCu, ND Au	
	54 ppm Cu, ND Au	
	_ 50, ND	
	_ 36,ND	
	- 41, ND	
	_ 49,ND	
	_ 53,ND	
	_ 64, ND	
	- 58,ND	
	65,ND	
	_ 50,ND	
	- 58, ND	
Sandstone	- 58, ND	
Sanasione	- 70,ND	
	- 62, ND - 78, ND	
	_ 66,ND	
	68,ND	
	_ 60,ND	
	- 62,ND	
	_ 57,ND	
	_ 58,ND	
	_ 51, ND	
	60 ppm Cu, NDAu	
ND — Au content below detectable limit of 10 ppb		
	NEWCONEX CANADIAN E	XPLORATION LTD.
	PERCUSSION	HOLE
	73-P-	-4
	<sup>Scale</sup> Linch = 50 feet	
	Core Size Azimuth	Inclination 90°
	Location Date Started	Date Completed
	L75E-8+00S 10/9/73 Recovery Logged by C.M.R.	0/10/73
	C.M.R.	A.L.M.
	To Accompany: Napier Lake Drilling	
	Author:	Date

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NORTH SOUTH ppmCu, Zn,Au Overburden 68,72,ND 180,124,ND 82,102,ND 108,134,.01 94,126,.03 98,118,.01 116,98,ND 132,98,.02 114,170,ND 160,290,ND 112,220,ND 182,148,ND 136,220,ND 144,220,ND 136,230,ND Siliceous Pyritic Zone 102,188,ND 122,142,ND 124,198,ND 118,335,ND 138,170,ND 136,138,ND 108,124,ND 94,114,ND 102,230,ND ND-Au content below detectable limit of IO ppb NEWCONEX CANADIAN EXPLORATION LTD. PERCUSSION HOLE 73-P-6 Scale l inch = 50 feet Inclination -70° Azimuth Core Size Date Started Date Completed Location L 55E-4+00S 11/11/73 Drft. by A.L.M. Logged by C.M.R. Recovery To Accompany : Napier Lake Drilling Report Date Author

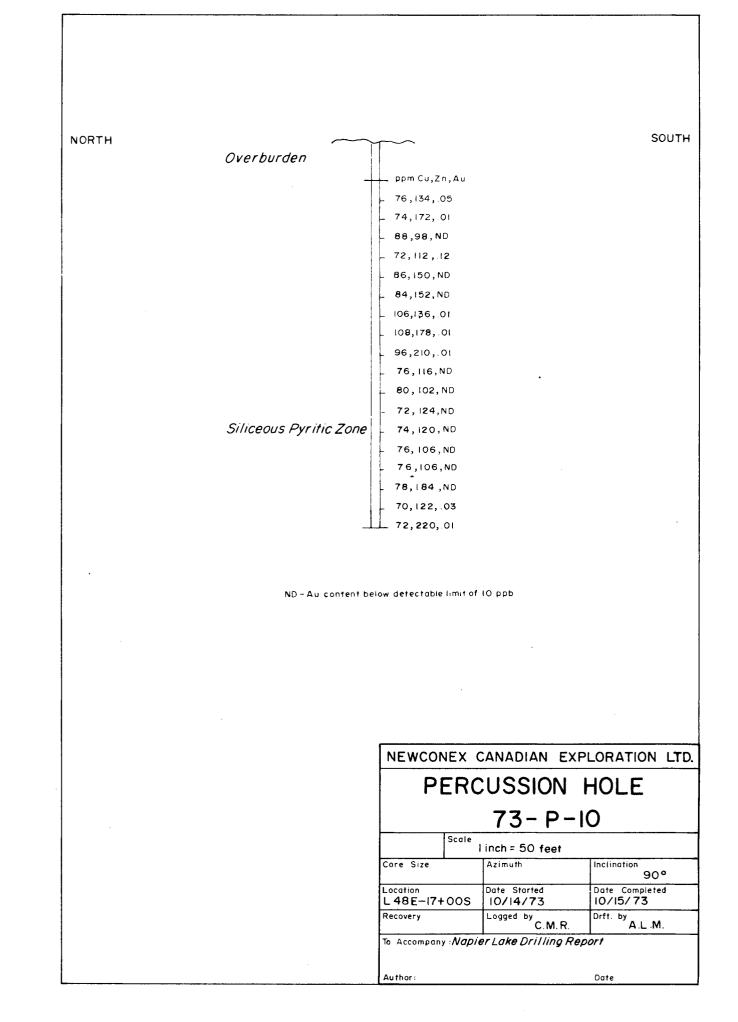
IORTH		~	SOUTH
	Overburden		
		614,46,ND	
		- 136,102,ND	
		- 138,78,ND	•
		238,84,ND	
		350,128,ND	
		284,225,ND	
		- 362,570,02	
		- 116,178,ND	
		108,265,.01	
		112,420, 02	
		- 128,148,.01	
		_ 314,205,.01	
	Siliceous Pyritic	Zone 142,124,.01	
		- 166,146, 01	
		150,126, 01	
		128,102,01	•
		134,112,.01	
		154,108, 01	
		236,94,.02	
		192,106,.01	
•		172,98,01	
		-, 128, 112, ND	
		134,92,ND	

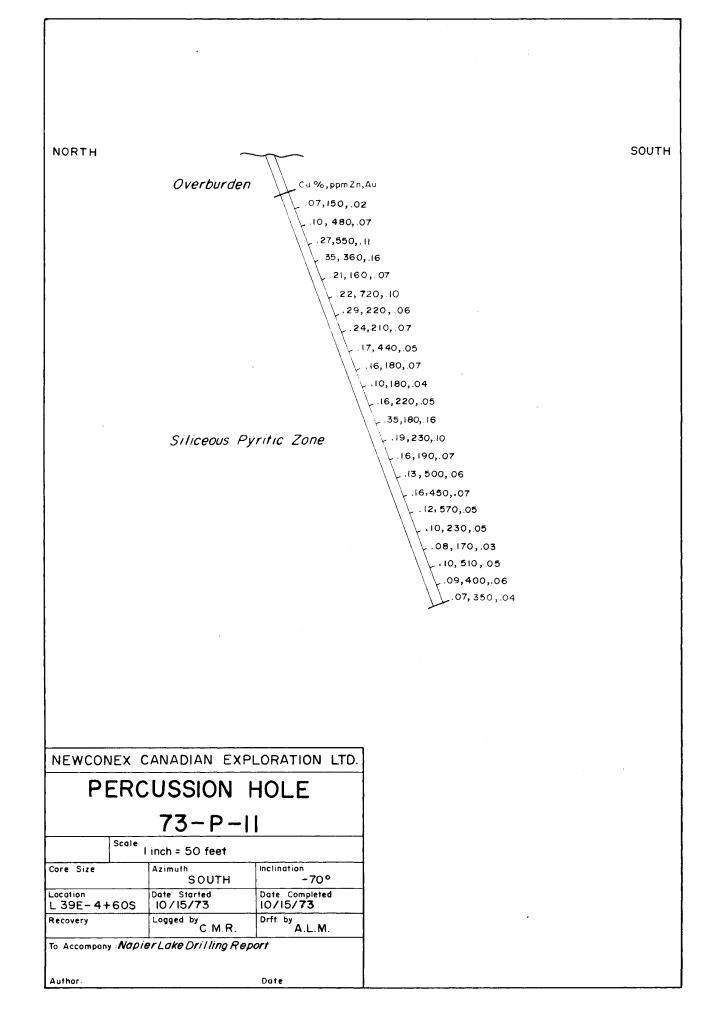
ND-Au content below detectable limit of 10 ppb

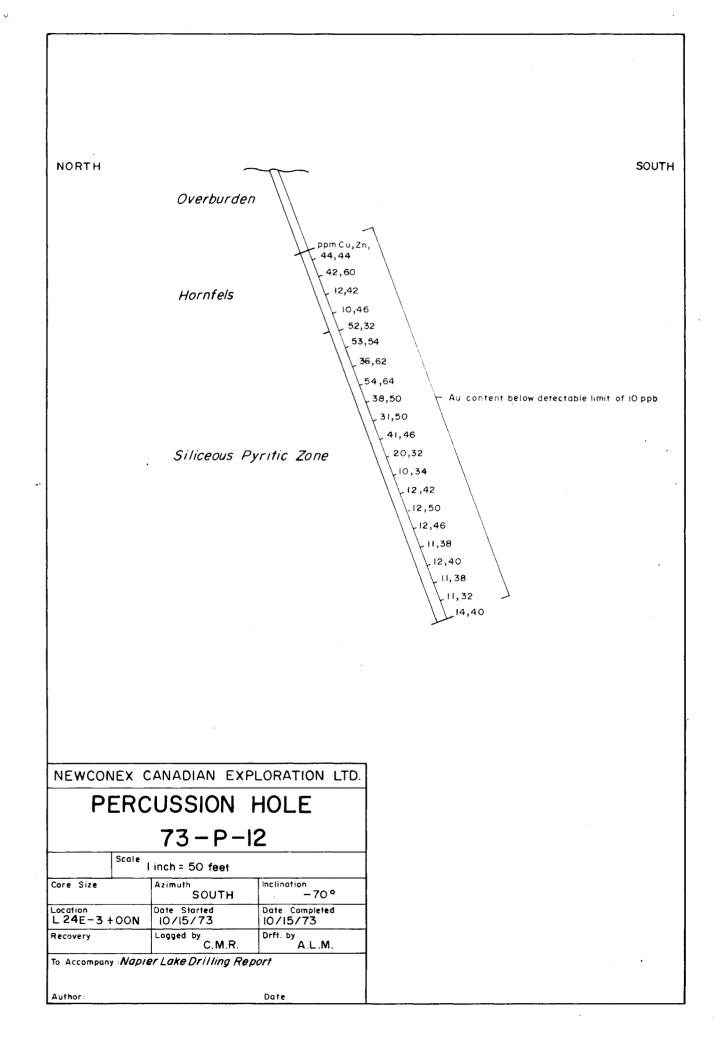
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Scole	l inch = 50 feet	<u>, , , , , , , , , , , , , , , , , , , </u>
Core Size	Azimuth	Inclination 90°
Location L5IE-4+00S	Date Started 12/12/73	Date Completed
Recovery	Logged by C.M.R.	Drft. by A.L.M.
To Accompany : Napi	er Lake Drilling Re	port

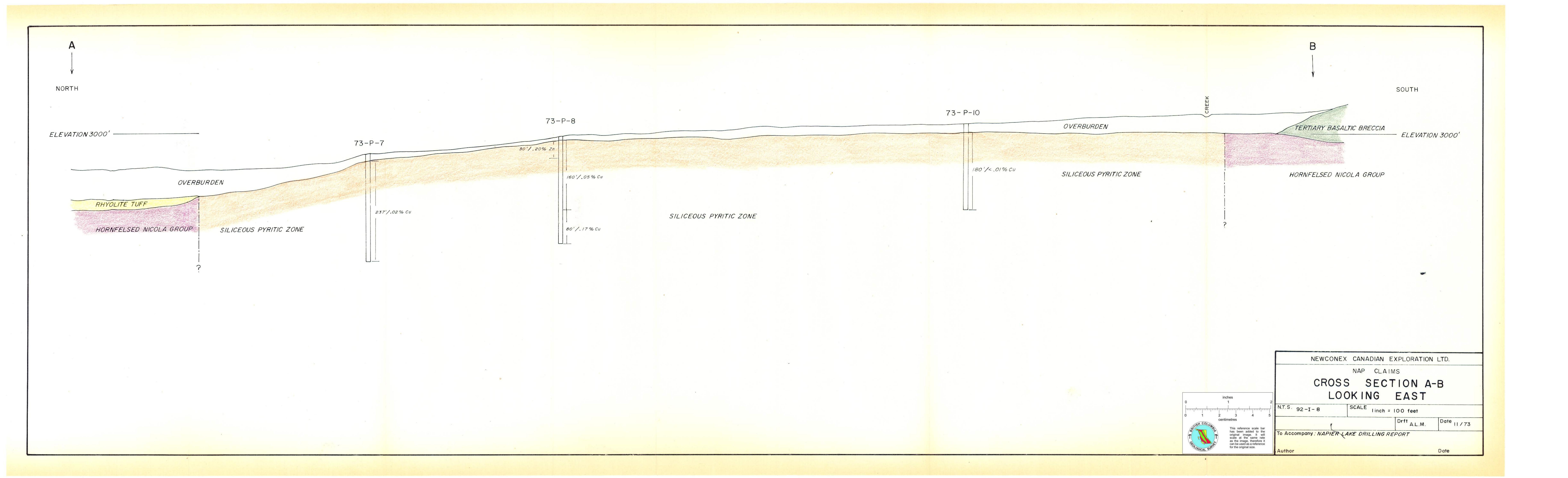
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Siliceous Pyritic Zone  - 03, 001    - 02, 001  - 02, 001    - 04, 001  - 04, 001    - 04, 001  - 04, 001    - 16, 002  - 22, 003    - 17, 002  - 13, 001    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 143, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 143, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 149450E+85  - 100 (12/713    - 100 (12/713  - 100 (12/713    - 100 (12/713  - 100 (12/715    - 149450E+85  - 100 (12/715 <td></td> <td></td> <td></td>			
Siliceous Pyrific Zone  - 03, 001    - 02, 001  - 02, 001    - 03, 001  - 04, 001    - 04, 001  - 04, 001    - 16, 002  - 22, 003    - 17, 002  - 13, 001    - 13, 001  - 28, 004    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 13, -002    - 13, -002  - 10, -012    - 13, -012  - 10, -012    - 14, -04+50E + 63  - 10, -102    - 14, -04+50E + 63  - 10, -102 / 73    - 14, -04+5			
Siliceous Pyrific Zone  - 02, 001    - 02, 001  - 03, 001    - 04, 001  - 04, 001    - 04, 001  - 04, 001    - 16, 002  - 22, 003    - 17, 002  - 13, 001    - 28, 004  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002    - 13, 002  - 13, 002			
Siliceous Pyrific Zone 02, .001   04, .001 04, .001   04, .001 04, .001   16, .002 22, .003   17, .002 13, .001   13, .001 28, .004   13, .002 13, .002   13, .002 13,			
Siliceous Pyritic Zone  08,001    .04,001  -04,001    .05,002  -22,003    .15,002  -15,002    .13,001  -28,004    .13,002  -13,002    .13,002  -100    .1002  -100    .1002  -100    .11,002  -110    .12,002  -113,002    .13,002  -110    .13,002  -110    .13,002  -110    .13,002  -110    .13,002  -110    .13,002  -110    .13,002  -110    .13,002  -110    .13,002  -110    .13,002  -110    .13,002  -110    .100  -110    .100  -110    .100  -110    .110  -110    .100  -110    .100  -110    .100  -110    .100  -110    .100  -110    .100  -110    .100  -100			
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. 22,003    . 17,002    . 15,002    . 13,001    . 28,004    . 13,002    . 14,002			
17,.002   15,.002   13,.001   28,.004   13,.002   13,.002   13,.002   13,.002   13,.002   13,.002   13,.002   13,.002   13,.002   13,.002   13,.002   13,.002   13,.002			
.15,.002    .13,.001    .28,004    .13,.002    .13,.002    .13,.002        NEWCONEX CANADIAN EXPLORATION L'        PERCUSSION HOLE    73 - P - 8    Scale    Linch= 50 feet    Core Size  Azimuth    Inclination    90°    Location  Date Started    L49+50E+8S  10/12/73    Recovery  Lagged by Logged by C.M.R.  Drft. by A.L.M.			
NEWCONEX CANADIAN EXPLORATION L    13,002    .13,02    .13,02    .13,02    .13,02    .13,02    .13,02    .13,02    .13,02    .13,02    .14,02,02    .14,02,02		·	
28, 004   13, .002    .002    .13, .002    .002    .13, .002    .13, .002    .13, .002    .13, .002    .13, .002    .13, .002    .13, .002    .13, .002    .13, .002    .13, .002    .13, .002    .13, .002    .14, .14, .14, .14, .14, .14, .14, .14,			
I3,002    I3,002    I3,002    IS,002    IS,002    NEWCONEX CANADIAN EXPLORATION L    PERCUSSION HOLE    73-P-8    Scale    Inch=50 feet    Core Size    Azimuth    Inclination    90°    Location    L49+50E+8 S    IO/12/73    Dote Started    IO/12/73    Recovery    Logged by    C.M.R.			
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PERCUSSION HOLE    73-P-8    Scale  Inch= 50 feet    Core Size  Azimuth  Inclination    Location  Date Started  Date Completed    Location  Location  Date Started  Date Completed    L49+50E+8 S  IO/I2/73  IO/I3/73  A.L.M.			.13,.002
PERCUSSION HOLE    73-P-8    Scale  Inch= 50 feet    Core Size  Azimuth  Inclination    Location  Date Started  Date Completed    Location  Location  Date Started  Date Completed    L49+50E+8 S  IO/I2/73  IO/I3/73  A.L.M.			
PERCUSSION HOLE    73-P-8    Scale  Inch= 50 feet    Core Size  Azimuth  Inclination    Location  Date Started  Date Completed    Location  Location  Date Started  Date Completed    L49+50E+8 S  IO/I2/73  IO/I3/73  A.L.M.			
PERCUSSION HOLE    73-P-8    Scale  Inch= 50 feet    Core Size  Azimuth  Inclination    Location  Date Started  Date Completed    Location  Location  Date Started  Date Completed    L49+50E+8 S  IO/I2/73  IO/I3/73  A.L.M.			
PERCUSSION HOLE    73-P-8    Scale  Inch= 50 feet    Core Size  Azimuth  Inclination    Location  Date Started  Date Completed    Location  Location  Date Started  Date Completed    L49+50E+8 S  IO/I2/73  IO/I3/73  A.L.M.			
PERCUSSION HOLE    73-P-8    Scale  Inch= 50 feet    Core Size  Azimuth  Inclination    Location  Date Started  Date Completed    Location  Location  Date Started  Date Completed    L49+50E+8 S  IO/I2/73  IO/I3/73  A.L.M.			
73-P-8ScaleInch= 50 feetCore SizeAzimuthInclination 90°LocationDate StartedDate CompletedL49+50E+8SIO/I2/73IO/I3/73RecoveryLagged by C.M.R.Drft. by A.L.M.			NEWCONEX CANADIAN EXPLORATION L
ScaleI inch = 50 feetCore SizeAzimuthInclination 90°LocationDate StartedDate CompletedL49+50E+8 SI0/I2/73I0/I3/73RecoveryLogged by C.M.R.Drft. by A.L.M.			PERCUSSION HOLE
LocationDate StartedInclinationLocationDate StartedDate CompletedL49+50E+8S10/12/7310/13/73RecoveryLogged by C.M.R.Drft. by A.L.M.			73-P-8
LocationDate StartedDate CompletedL49+50E+8S10/12/7310/13/73RecoveryLogged by C.M.R.Drft. by A.L.M.			Scale I inch= 50 feet
LocationDate StartedDate CompletedL49+50E+8S10/12/7310/13/73RecoveryLagged by C.M.R.Drft. by A.L.M.			
Recovery Logged by Drft. by C.M.R. A.L.M.			Location Date Started Date Completed
To Accompany :Napier Lake Drilling Report			L 49+50E + 8 S 10/12/73 10/13/73 Recovery Logged by Drft. by
			CMR ALM
			To Assemblant Alapion A AD Drilling Papart

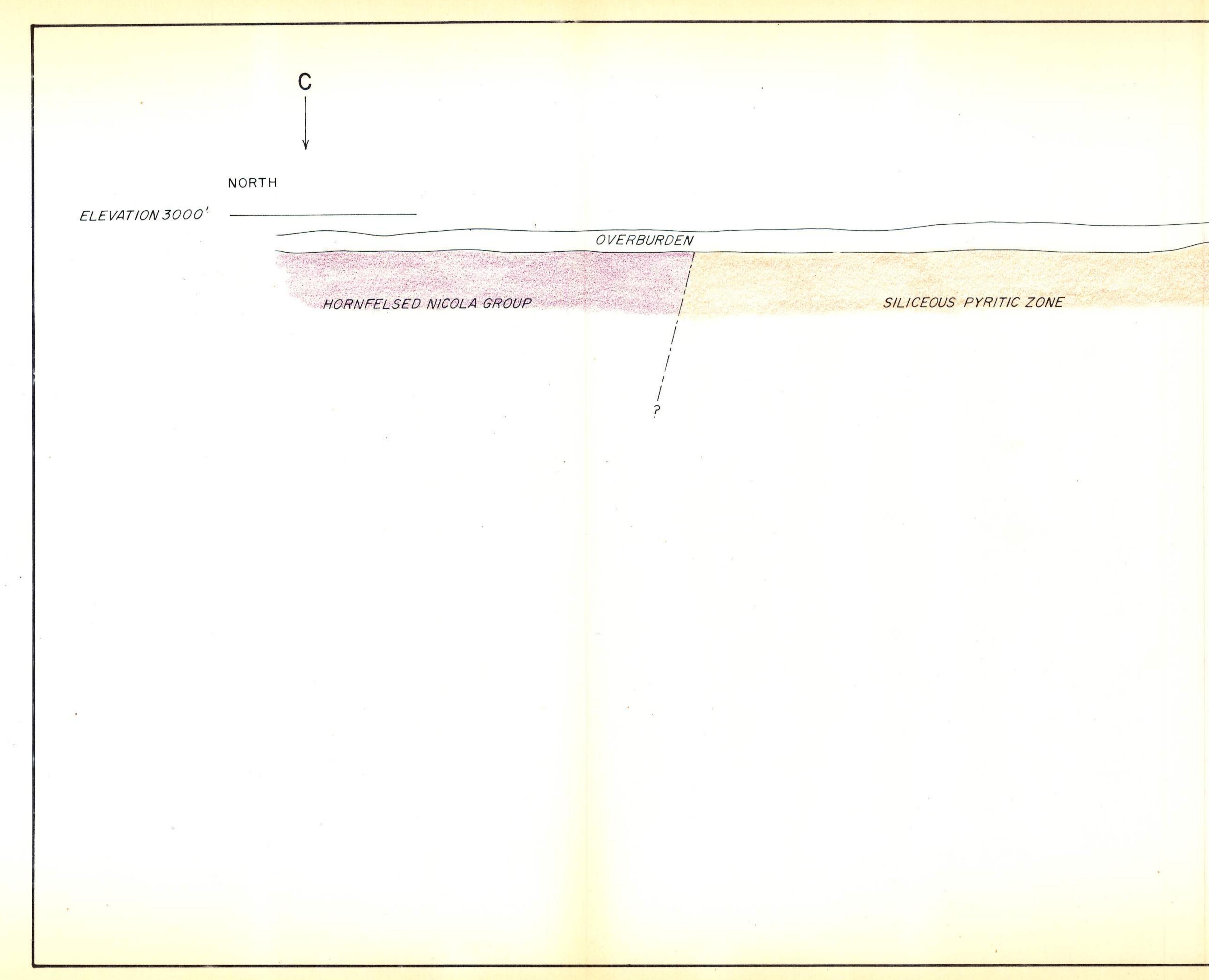
NORTH SOUTH Overburden ppm Cu,Zn,Au 925,325,.01 565,350,01 515,770,.01 495,350,.01 475,225,.01 480, 230, ND 262,200,.03 110,134,.09 104,166, 23 88,158, .09 86,156,.05 76,158,13 92,154,ND 84,132,ND Siliceous Pyritic Zone 162,205,ND 120,192,ND 196,840, 01 354,870,.01 250,340,.01 266,235,.02 262,210,.01 314,250,.01 292,1900,.02 ND-Au content below detectable limit of 10 ppb NEWCONEX CANADIAN EXPLORATION LTD. PERCUSSION HOLE 73-P-9 Scale 1 inch = 50 feet Azimuth Inclination - 70 ° Core Size Location L 43E - 10+00S Date Completed Date Started 10/13/73 Logged by C.M.R. Drft. by A.L.M Recovery To Accompany Napier Lake Drilling Report Author Date



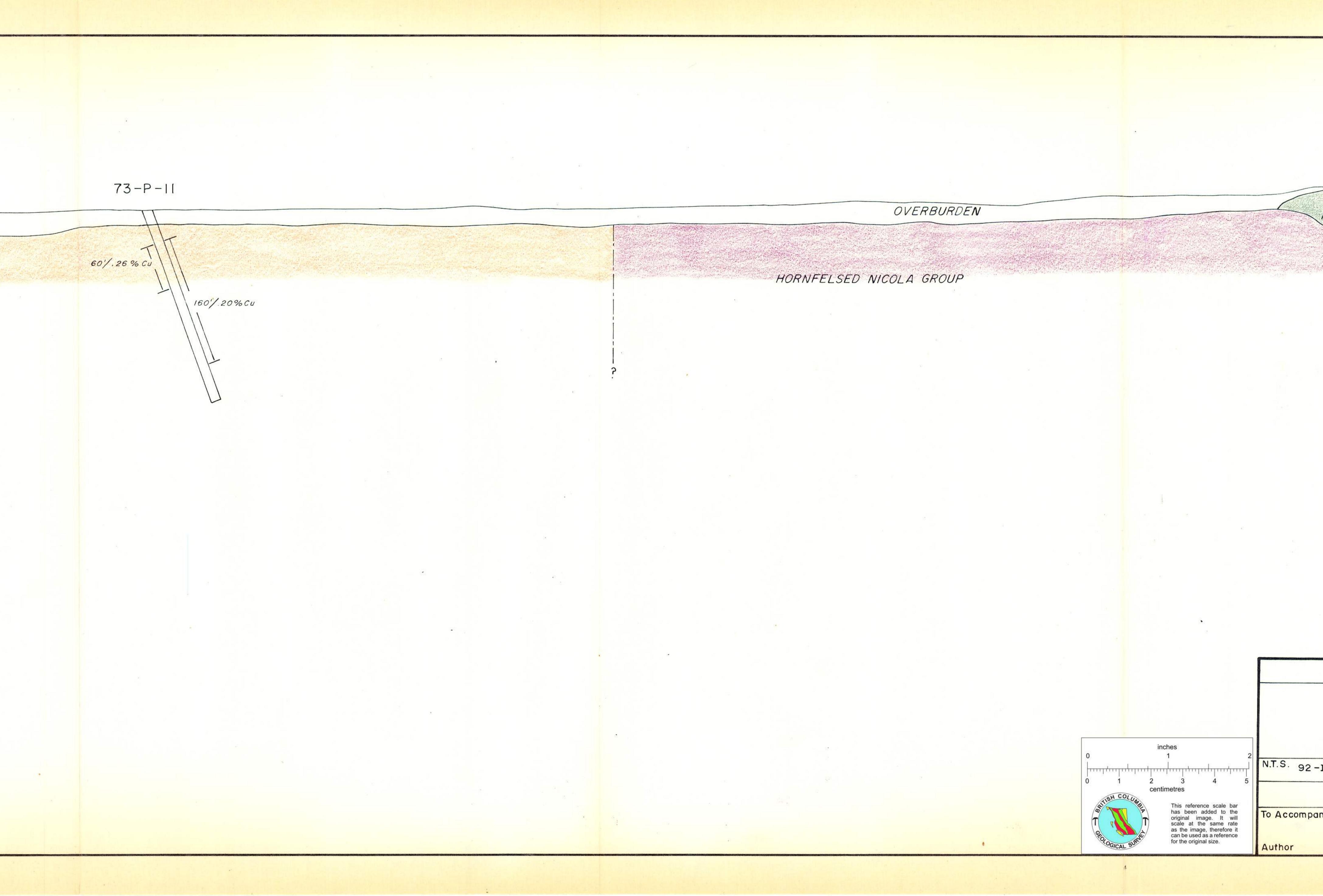








73-P-11 60%.26% CU SILICEOUS PYRITIC ZONE 160%.20%Cu 



	D
	SOUTH
	ELEVATION 3000'
KAMLOOPS GROUP	
¢.	
NEWCONEY CANADIA	N EXPLORATION LTD.
NAP CI	
CROSS SE	CTION C-D
LOOKING	EAST
N.T.S. 92-I-8 SCALE I in	ich = 100 feet
To Accompany : NAPIER LAKE DRILLI	Drft A.L.M. Date 11/73
	Date
Author	Dute

2 d, 0% py 2b 10

•5e

NAPI

NAP

BM 1307


HIGHWAY

25,10% py 10% py

12/ 0 m

" 275 b

O IN



E	G E N D
	KAMLOOPS GROUP
6	Grit and sandstone
i — g	a – Light coloured rhyolite and rhyolite tuffs b–Black quartz eye rhyolite
	c – Vesicular volcanic breccia
	d – Basaltic volcanic breccia
	e – Olivine basalt
	f – Vesicular rhyolite
	g - Volcanic sandstone
	COAST INTRUSIONS
4	Lamprophyre dykes
3	Granite (gneissic)
	SILICEOUS PYRITIC ZONE
— d	a – Quartz diorite very fine-grained
	b – Dense siliceous rock
	c – Sericitic dense siliceous rock
	d – Quartz sericite schist
19	NICOLA GROUP
d	a – Augite porphyry breccia b – Hornfels
	c - Hybred mixture of tertiary dykes and hornfels
	d-Hornfels containing thin beds of marble
81	SYMBOLS
••	Bedding
60°7	Cleavage
150	Joints

lc

Note: The fracture cleavage of 2d also indicates shearing 73–P–I 1973 Percussion hole location, number, inclination and azimuth O – 68°N