

REPORT ON
GEOLOGICAL AND GEOCHEMICAL PROSPECTING ON
THE HYL (DASSON) CLAIM GROUP

MAHANNI MINING DISTRICT

N.W.T.

CLAIM SHEET 105 - I - 6

Latitude 62° 25'

Longitude 129° 02'

FOR
DASSON COPPER CORPORATION

BY

S.C. FARQUHARSON, MINING ENGINEER

Field Work: July 22 - August 10, 1973

Report: September, 1973

*Received Ottawa
March 14, 1974.*

REPORT ON DASSON COPPER CORPORATION PORTION OF "RYL" CLAIM GROUP

TABLE OF CONTENTS

	PAGE
INTRODUCTION	1
DESCRIPTION OF PROPERTY	1
PHYSIOGRAPHY	2
REGIONAL GEOLOGY	2
MINERALIZATION	3
PROPERTY GEOLOGY	3
GEOCHEMISTRY	4
SUMMARY AND CONCLUSIONS	5
RECOMMENDATIONS	6
CERTIFICATE	7
NAMES OF PERSONS EMPLOYED	8
STATEMENT OF COSTS	9, 10

Plan No. 1 GEOCHEMISTRY

Plan No.2 GEOLOGY

SKETCH; LOCATION OF CLAIM GROUP

SKETCH: CLAIM GROUP

Report:HYL-D

INTRODUCTION

A preliminary exploration program was carried out on the 32 mineral claims which form the Dason Copper Corp. holding in the "HYL" group, during the period July 22 to August 10, 1973. The purpose of the program was to assess the economic mineral potential of the property in view of large zinc-lead mineralized zones located on the adjoining holdings of Canex Ltd. Prospecting, geochemical analyses of the stream sediments and geological studies formed the basis of the investigation. Since it was evident that the Canex discovery was confined to a stratigraphic horizon, the geological studies concentrated on locating the possible extension of the favourable horizon on the HYL group.

The results of these reconnaissance investigations are discussed in this report and plans on a scale of 2640 feet to the inch show some of the geological observations and the analyses for the zinc content of the stream sediments.

DESCRIPTION OF PROPERTY

The HYL group of mineral claims, of which Dason Copper Corp., hold 32 claims, are located in the Nahanni Mining District, N.W.T. The topographic sheet for the area is No. 105-I "Nahanni". Access to the property is possible by helicopter from Watson Lake or Ross River both in Yukon Territory. Watson Lake is about 130 miles to the south while Ross River is west, approximately 100 miles. The HYL group is shown on Claim Sheet 105-I-6 at Latitude 62°25' Longitude 129°02'.

The Dason Copper portion of the HYL claims may be described as:

<u>Claim Grant Nos.</u>	<u>Name of Claims</u>
A-65041 to 65048 incl.	HYL- 31 to 38 incl.
A-65052 to 65060 incl.	HYL- 42 to 50 incl.
A-65064 to 65072 incl.	HYL- 54 to 62 incl.
A-65076 to 65081 incl.	HYL- 66 to 71 incl.

PHYSIOGRAPHY

The property is essentially an area of highland plateau with poor drainage. Elevations range from 5000 to 5500. Streams on the property are located along the western section. The valleys are V shaped with steep, barren walls, moss covered in spots. The valley floors are lightly covered with balsam and alder. Precipitation is high with snow falling in mid-summer.

REGIONAL GEOLOGY

The regional geology is shown on the 4-mile Nahanni Sheet, Map No.8-1967 published by the G.S.C. The rock units for the region are indicated to be various types of sedimentary formations from Cambrian to Mississippian and Devonian. The youngest rock unit which predominates in the region of interest at this time is Unit 18B, which is considered to be Devonian or Mississippian. Also Unit 7E is well represented in the area. This unit is essentially composed of shales and conglomerates of Cambrian age. However the formation of particular interest in the area for mineral potential is Unit 10. This is a shale-limestone-chert formation of Upper Ordovician and Silurian age. Until the zinc-lead mineralization of Canex Ltd was discovered, it was not known that Unit 10 was present in the immediate vicinity.

To complete the catalogue of the regional rocks, Unit 2 is :

Report:HIL-D

mentioned since it is present over a large area to the southeast. Unit 2 is of Cambrian or earlier in age and consists of slates and phyllites. There is a north-west-southeast trend to the formations. Glaciation, generally in a northwest direction, has had considerable effect on the topography of the region. Tightly compressed folds, which are common in the area, are vertical to slightly overturned.

MINERALIZATION

Within the regional area, no important zones of mineralization were known to be present until the prospectors for Canex Ltd. made a zinc-lead discovery of considerable extent. Bulldozing of the area of discovery has shown that the mineralization is confined to an horizon of Unit 10 at about 300 feet above the base of the formation. The zinc mineralization is hardly visible in the rock and the lead is also fine grained but visible. The width of the zone examined was in the order of 400 feet. The mineralization occurs in massive streaks with leaner sections between. The deposit is considered to be of the stratigraphic syngenetic type. The host rock may be described as a black graphitic graptolitic shale, calcareous in some areas.

PROPERTY GEOLOGY

The NYL Claim Group of Dason Copper Corp. is considered to be largely underlain by Upper Cambrian and Ordovician rocks (Unit 7b). A limited area of older rocks of Unit 2 are exposed along the south boundary. The youngest rocks of the region, Unit 18b consist of Devonian and Mississippian black shales etc. These are found on the property near the west centre and northern portion. (See Plan No. 2) Contacts are sometimes difficult to determine due to lack of sufficient rock outcrop or debris and talus covering. Outcrop is limited too on the

Report: HYL-D

highland sections but surface boulders are a good indication of underlying rock in this kind of terrain where frost action is intensive.

The exposed members of Unit 7b consist of interbedded limestones and silty dolomites: the former weather grey, the latter buff. The relative proportions are variable, with beds averaging an inch or so in thickness. No fossils are present in the limestones. The lower clastic members of Unit 7 were not observed.

Near the north and western boundary, our plan No.2 shows the possible contact of Unit 18 and Unit 7. The area of the possible contact was delimited by the use of limited outcrops and talus with the expectation that Unit 10 lies at the contact between Unit 18 and 7. Unit 10, the Upper Ordovician and Silurian rocks, host to the Canex deposits of mineralization, could not be determined to be present at the contact with any certainty but there is good reason to believe that the Unit 10 does exist on the HYL claim group in that section of the property. This is based on the reports of the Cominco crew to the northwest and Canex on the west of the HYL claims.

The uppermost members of Unit 7b include a siliceous dolomite (with pyrite) and a limestone with a wavy banded texture. The lowest members of Unit 18 are cherty shales.

GEOCHEMISTRY

As a possible aid in locating zinc mineralization in the vicinity of the few streams present on the property, a program of geochemical work was undertaken. Samples of the active sediments within the streams were taken at 300 to 500-ft. intervals and at the stream intersections. The sample was placed in kraft envelopes on which the sample location was marked. The samples were dried and sieved thru

Report: HYL-D

80 mesh sieve. The zinc content of the sample was determined by the dithizone extraction method as recommended by Barringer Co. The results in p.p.m. have been plotted on a scale of 2640 feet to the inch. (Plan No.1)

SUMMARY AND CONCLUSIONS

The objective of the work program was to determine if the property indicated any potential zinc deposits such as had been found on the adjacent property of Canex Ltd. Due to the special set of conditions applying to the known deposit on Canex property, the key to the situation of this type would be the locating of the rock formation Unit 10, on the HYL claims. It is expected that other deposits will be found throughout the area where Unit 10 is present. On the HYL claim group the mantle of debris has made it impossible to be sure that it does occur at that section indicated, but it probably does. The reports that Unit 10 has been found close to the HYL boundary by exploration work on the Canex to the west and Cominco at the northwest is indeed encouraging.

As far as geochemistry is concerned, limited amount of work on the stream sediments may not be very helpful until a wider experience has been obtained with results of such work in the area where shales are common. It would appear to be of interest that the higher zinc values in the sediments were obtained not far from the possible contact zone of the Unit 10. While no soil sampling has yet been undertaken on the property, the soil and other conditions may not provide an ideal coverage in the search for a zone of zinc-lead mineralisation, though the conditions over the Canex discovery were good for soil sampling.

RECOMMENDATIONS

Some consideration should be given to additional work such as soil sampling but the emphasis probably should be on trying to determine that Unit 10 does actually exist in the vicinity of the projected contact of Unit 18 and Unit 7 in the northwest section of the property.

Before making any plans, it is recommended that all the data and the experience which may now be available from the neighbours, be assembled and studied, as well as that of the many other exploration projects which were undertaken in the area during the past season. Finding mineral deposits is not usually an easy task at best. The conditions in the Summit Lake area warrant cooperation for the good of all, for there are many questions to be answered, and many deposits to be located.

Montreal, Quebec

September, 1973

Signed *Stanley C. Parquharson*

Stanley C. Parquharson
Mining Engineer

C E R T I F I C A T E

I, STANLEY C. FARQUHARSON, of 842 McEachran Avenue, in the City of Montreal, in the Province of Quebec, do hereby declare:

THAT I am a graduate in Mining Engineering from McGill University (1938)

THAT I have been practising my profession continuously since that time,

THAT since 1958 I have been acting as a consultant for mineral exploration throughout Canada; and from 1952 to 1958 I was involved in the initial discoveries of the major zinc-lead deposits in New Brunswick as field manager,

THAT I am a member of the Engineers Associations of Ontario and Quebec,

THAT I personally managed the exploration program and participated in the field work and assessment of the exploration data resulting from the work outlined in this report.

Signed

Stanley C. Farquharson
.....

Stanley C. Farquharson
Mining Engineer

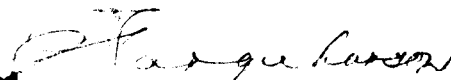
Montreal, P.Q.,

September, 1973

Names and Addresses of all persons employed in performing the work program covered by this report

<u>Position</u>	<u>Name</u>	<u>Address</u>	
Geologist	Robin S. Cook	10 Applehill Road,	Basle D'Urfe, P.Q.
Assistant Geologist	Ernest Koeder	100 Cure Roy Street	Val D'or, P.Q.
Geochem and Camp Foreman	Arthur Fleming Mining Engineer	34 Ellerslie Ave	Willowdale, Ont
Prospector	Adelard Trepanier	5923 Hutchison Street	Montreal, P.Q.
Prospector	Lyle Hartwig	324 Sanatorium Road	Hamilton, Ont
Prospector	David Zgoosinski	5229 Ponsard Ave	Montreal, P.Q.
Prospector	Maxwell Ruby		Gowanda, Ont
Manager & Consultant	S.C. Parquharson	842 McLachlan Avenue	Montreal, P.Q.

I declare the above to be a true statement


Signed
S.C. Parquharson
Mining Engineer

STATEMENT - EXPLORATION EXPENDITURES

RE: Exploration carried out by S.C. Farquharson, Mining Engineer of 842 McEachran Ave., Montreal, Quebec.

During the period: July to October, 1973

On joint operation on the 177 claims described herewith:

<u>Claims Held By</u>	<u>Claim Group Name</u>	<u>No. of Claims</u>	<u>Mining Dist.</u>
Dasson Copper Corp, Montreal, P.Q.	NAH	88	Watson Lake, Y.T.
Dasson Copper Corp, Montreal, P.Q.	HYL(in part)	<u>32</u> 120	Nahanni, N.W.T.
D.J.Kennedy et al Dorval, P.Q.	HYL(in part)	39	Nahanni, N.W.T.
D.J.Kennedy et al Dorval, P.Q.	Dal(in part)	<u>18</u> <u>57</u> 177	Nahanni, N.W.T.

Cost Data: (Split 72% Dasson-28% Kennedy except on Class 1)

<u>Voucher</u>	<u>Class</u>	<u>Total Expenditures</u>	<u>Portion Applicable Dasson Copper</u>
SCF 3,4	1a	\$2000.	1,500.
	1b	1950.	1,450.
SCF 9-11 14-15			
ABF 9-10	2a	3348.	2,411.
SCF 1-2			
ABF 12-13	3a	1090.	785.
	3bi	3730.	2685.
	3biii	7700.	<u>5544.</u> 9,014.
ABF 5-6	4	840.	605.
SCF 7,13,17			
ABF 2	6	1955.	1,408.
SCF 5,6,16	7	481.	346.
SCF 18-22	9i	1735.	1249.
ABF 7,8	9ii	4996.	<u>3597.</u> 4,846.
ABF 11	10	48.	35.
SCF 8	11	76.	55.
SCF 12	12	<u>67.</u>	<u>49.</u>
		\$30,017.	\$21,719.

Sworn to at Montreal in the Province of Quebec, this . . . information provided in the above statement is true.

11. to
11. to
11. to

I hereby declare that the cost information provided in the above statement is true.

S.C. Farquharson, Mining Engineer

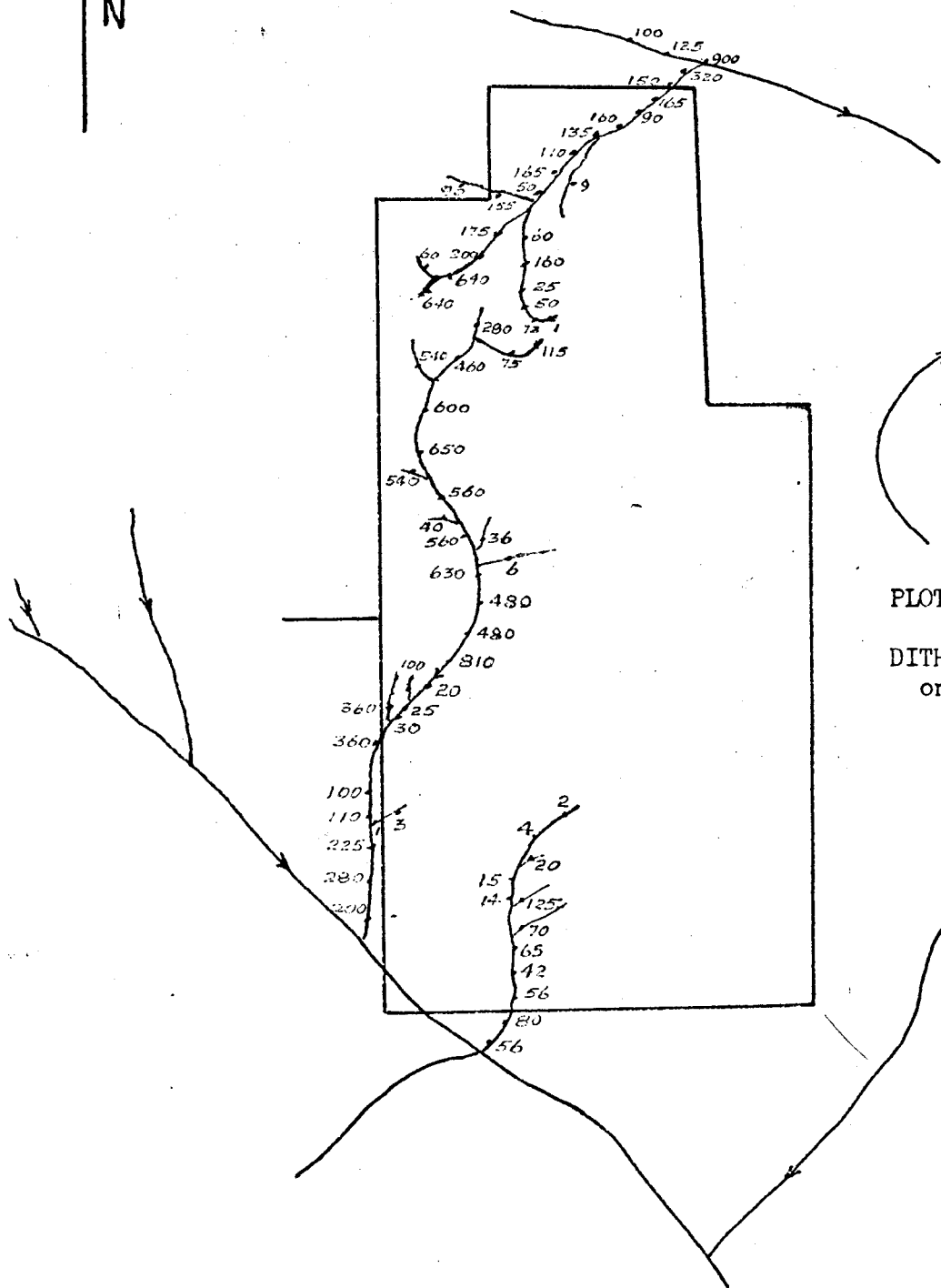


GEOCHEMISTRY - PLAN No.1
HYL CLAIM GROUP
Nahanni Mining Division, N.W.T.

DASSON COPPER CORPORATION

Scale 1" = 2640' September, 1973

Map Sheet 105-I-6



PLOT: ZINC (in P.P.M.)

DITHIZONE METHOD
on STREAM SEDIMENTS

LEGEND (After Nahanni Geology Sheet 8-1967)

18a Devonian and (?) Mississippian

18b Black shale, etc

Ordovician and Silurian

1G Black graptolitic shales, etc

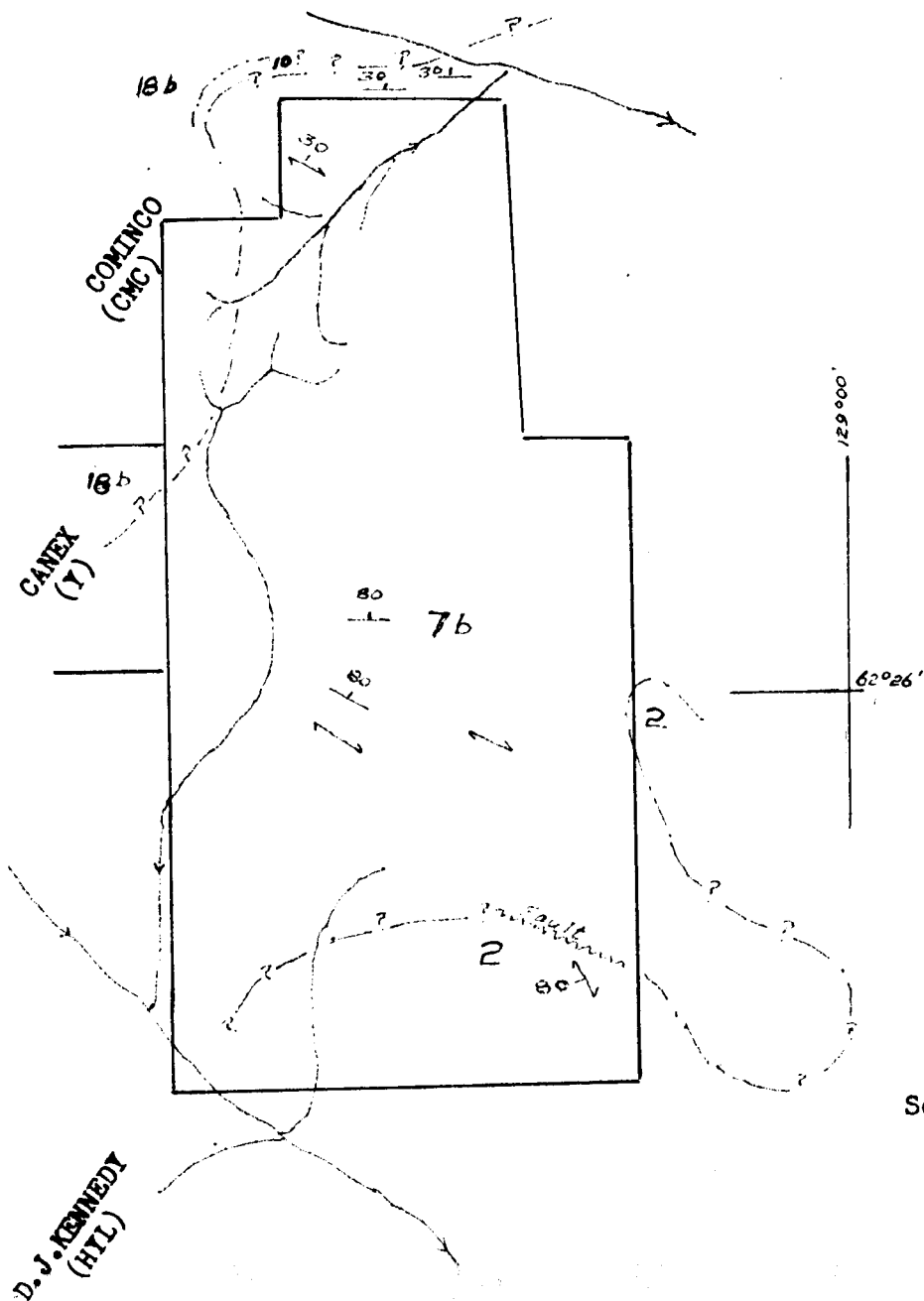
Upper Cambrian and (?) Ordovician

7b Limestone, dolomite, sandstone, etc

Cambrian and Earlier

2 Slates & phyllites, etc

(a) (b) Dip and Strike (a) bedding (b) schistosity



DASSON COPPER CORPORATION

GEOLOGY

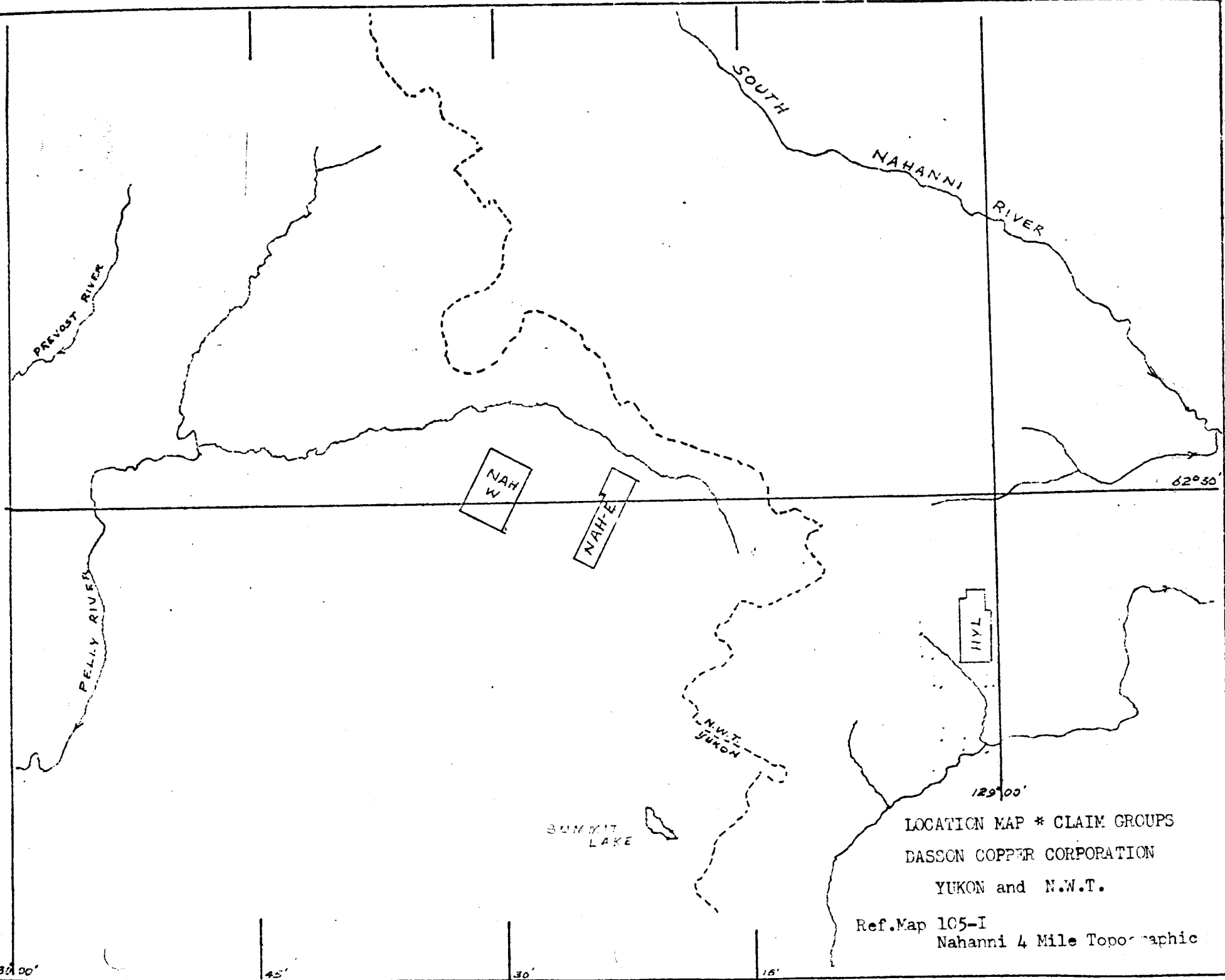
HYL CLAIM GROUP

Nahanni Mining District
N.W.T.

Scale 1" = 2640' September 1973

PLAN No. 2

Ref: Claim Sheet 105-I-6



62°30'

129°00'

LOCATION MAP * CLAIM GROUPS
DASSON COPPER CORPORATION
YUKON and N.W.T.

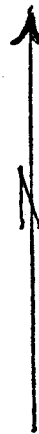
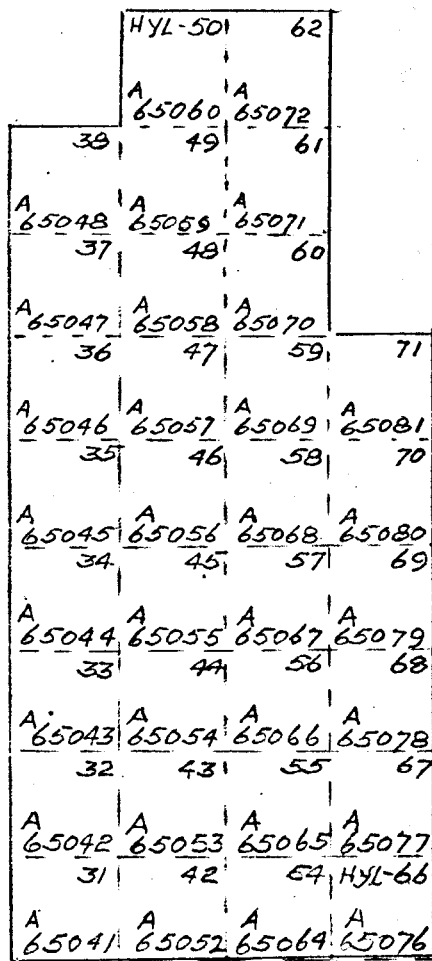
Ref. Map 105-I
Nahanni 4 Mile Topographic

131°00'

45'

30'

15'



DASSON COPPER CORPORATION

"HYL" CLAIM GROUP

NAHANNI MINING DISTRICT

N.W.T.

REF: MAP SHEET 105-I-6

Scale 1" - 1/2 Mile