

DIAMOND DRILLING REPORT

On The

TIMOTHY CREEK PROPERTY

Located in the Clinton Mining Division

At Co-ordinates

$51^{\circ}54'N - 121^{\circ}22'W$

92 P/A W

BY

T.D. LEWIS

NORANDA EXPLORATION COMPANY, LIMITED

(NO PERSONAL LIABILITY)

July 1979

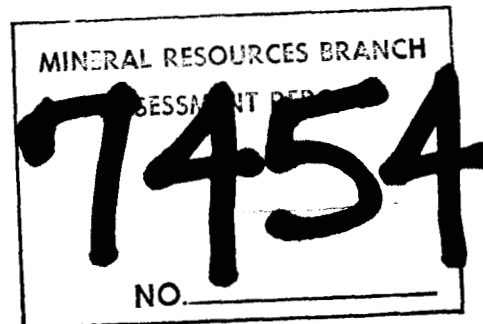


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INTRODUCTION

The Timothy Creek Property is comprised of the Westim, Westim 2 and 3, and Rainbow 1, 2 and 3 mineral claims. These claims were staked by Clifford E. Gunn between September 1976 and June 1978. Interest in the property stems from a series of narrow quartz - carbonate veins containing galena, chalcopyrite and sphalerite.

Previous work in the vicinity of the claim group includes a geochemical survey by Anaconda in 1966, and prospecting and minor hand pitting by W.W. Deans in 1972. Between September 1976 and June 1978, Gunn carried out prospecting, hand pitting, and back hole trenching.

Noranda acquired the claim group from Gunn under the terms of an option agreement dated June 1, 1978. During July and August, 1978, geological mapping and soil sampling was performed over the property. The results of this program are reported in an earlier Noranda report by L.C. Reinertson.

In May 1979, Noranda initiated a diamond drill program to test the vein mineralization. Two angle holes were drilled totalling 318.43 meters of BQ size core. The core was logged by T.D. Lewis and stored on the property.

LOCATION AND ACCESS

The Timothy Property is located in the Cariboo District of south central British Columbia. The property is centered on co-ordinates $51^{\circ}54'N$ and $121^{\circ}22'W$, on NTS map sheet 92P/14W. This point is 12Km. at 37° (true) from the village of Lac La Hache, B.C. and 8Km. at 268° from the BCFS Mount Timothy Lookout Tower. Elevations range from 1070 meters to 1280 meters ASL with the showing occurring at 1250 meters, near the top of the ridge.

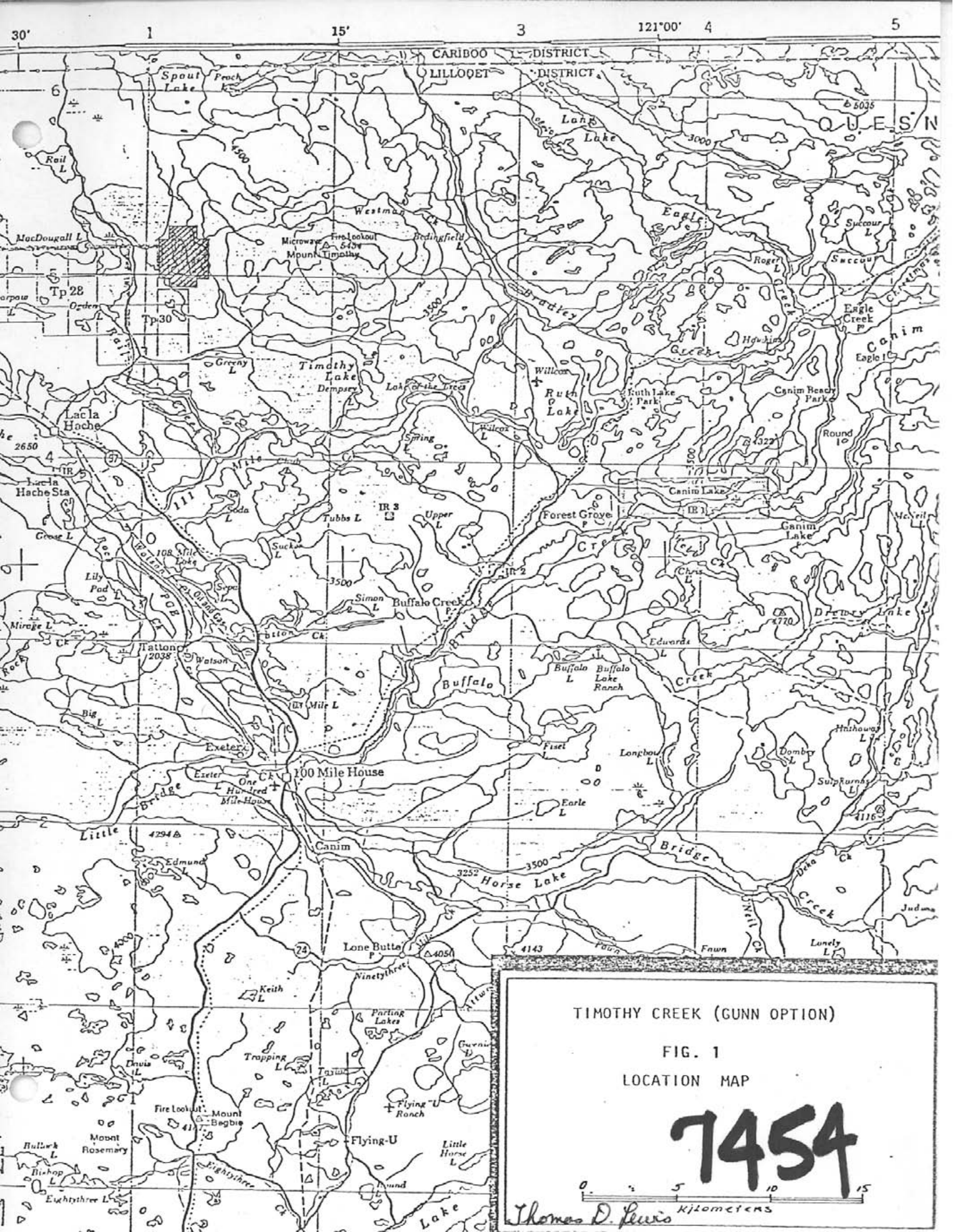
Access to the property is by truck from Lac La Hache. The first 12Km. are on an all weather gravel road to Spout Lake. From the Spout Lake Road, 5Km. of abandoned logging road offer access only during the snow free season.

CLAIM STATISTICS

All the claims are in the Clinton Mining Division and have been transferred to Noranda Exploration Company, Limited (No Personal Liability) from Clifford E. Gunn by Bill of Sale recorded August 7, 1978.

<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Record Date</u>
Westim	52 (9)	2	September 14, 1976
Westim 2	51 (9)	15	September 14, 1976
Westim 3	53 (10)	8	October 19, 1976
Rainbow 1	223 (6)	15	June 12, 1978
Rainbow 2	224 (6)	15	June 12, 1978
Rainbow 3	225 (6)	18	June 12, 1978

See fig. 2 for claim locations.



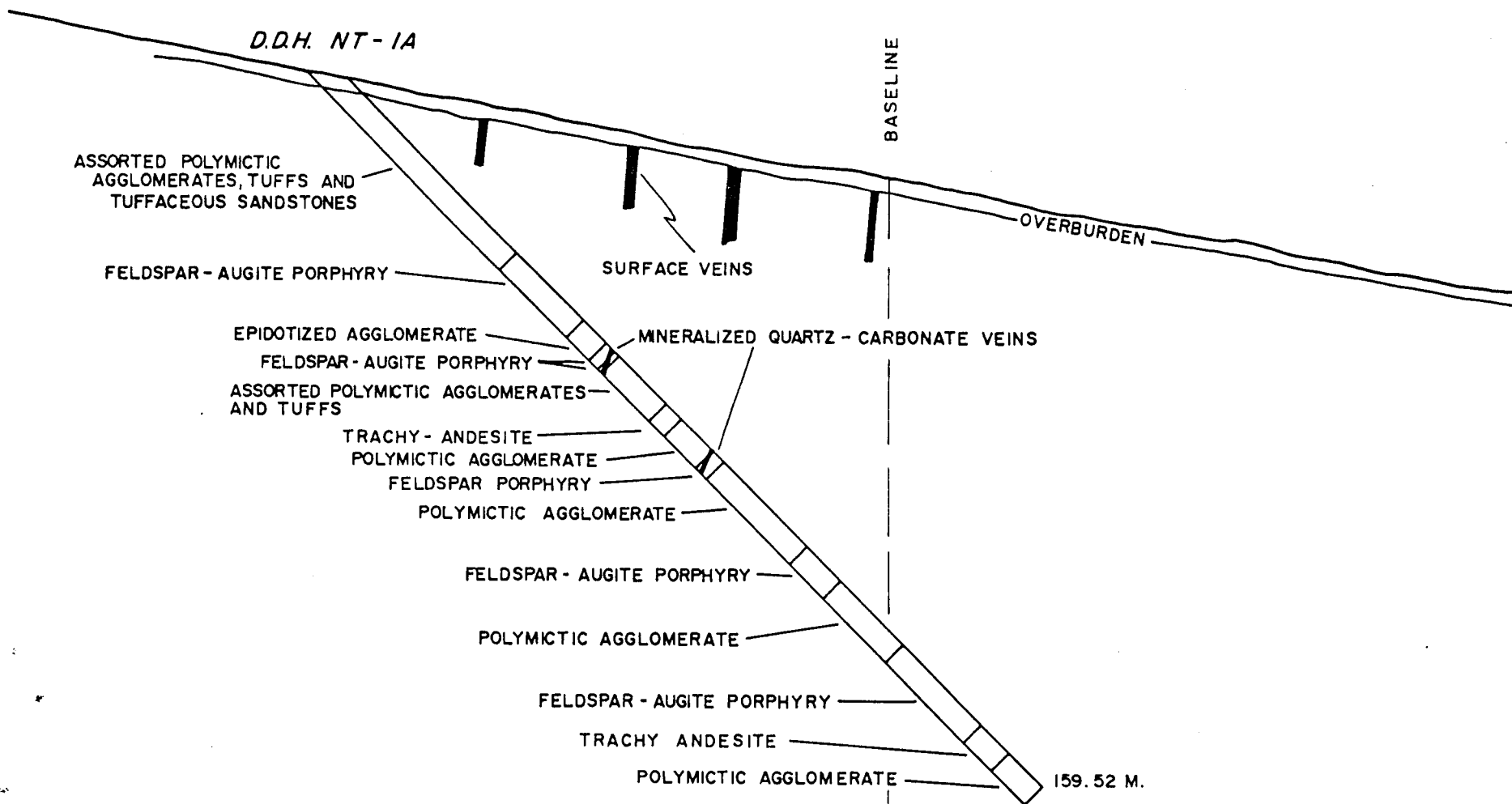
TIMOTHY CREEK (GUNN OPTION)

FIG. 1

LOCATION MAP

7454

0 5 10 15
Kilometers
Thomas D. Lewis



D.D.H. NT-1A

BASELINE

ASSORTED POLYMICTIC
AGGLOMERATES, TUFFS AND
TUFFACEOUS SANDSTONES

FELDSPAR - AUGITE PORPHYRY

SURFACE VEINS

OVERBURDEN

EPIDOTIZED AGGLOMERATE

MINERALIZED QUARTZ - CARBONATE VEINS

FELDSPAR - AUGITE PORPHYRY

ASSORTED POLYMICTIC AGGLOMERATES
AND TUFFS

TRACHY - ANDESITE

POLYMICTIC AGGLOMERATE

FELDSPAR PORPHYRY

POLYMICTIC AGGLOMERATE

FELDSPAR - AUGITE PORPHYRY

POLYMICTIC AGGLOMERATE

FELDSPAR - AUGITE PORPHYRY

TRACHY ANDESITE

POLYMICTIC AGGLOMERATE

159.52 M.

FIGURE #2

TIMOTHY CREEK PROPERTY
NORANDA EXPLORATION CO., LTD.

SECTION 100 + 50 N , DDH. NT - 1A

10m

Thomas D. Lewis

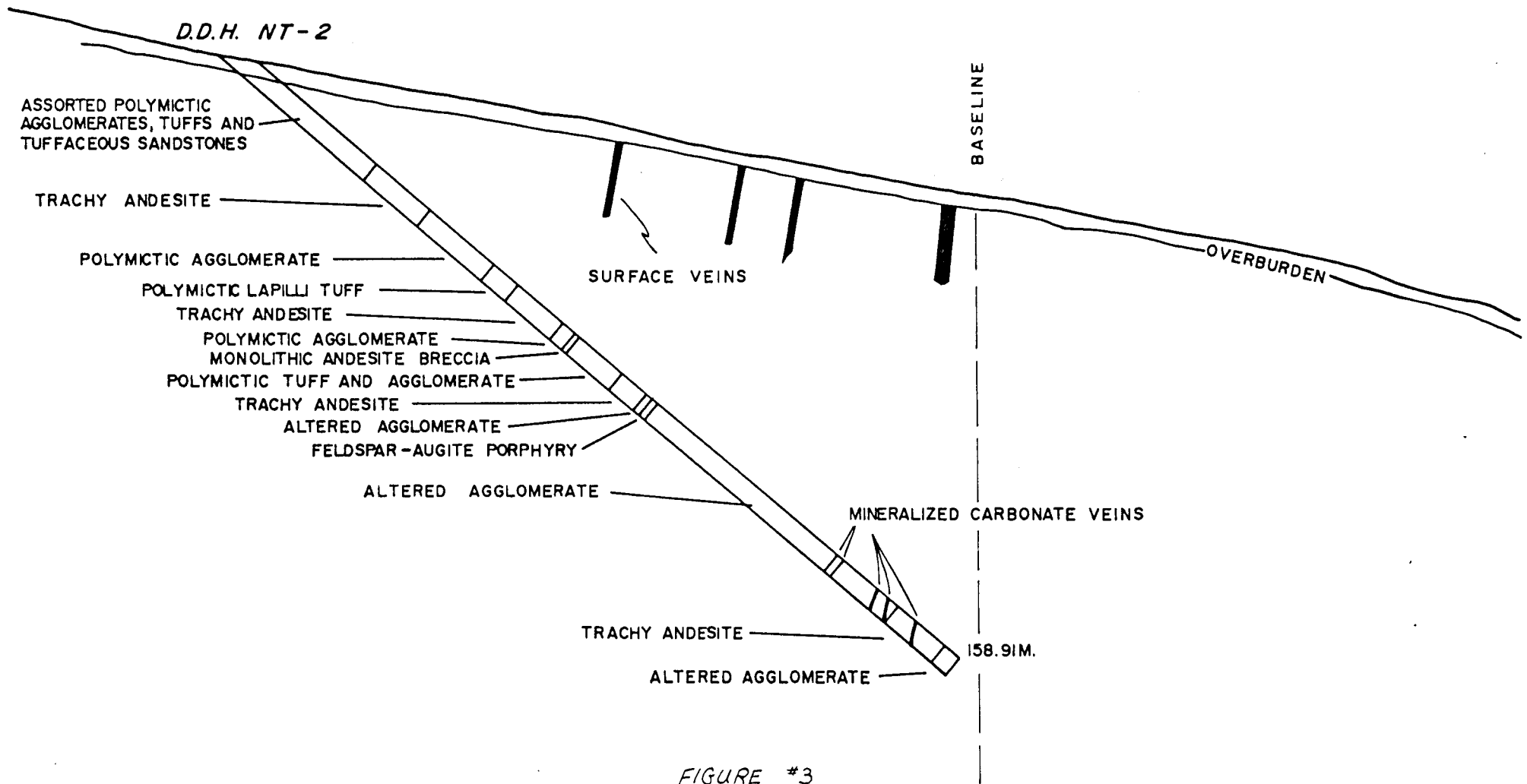


FIGURE #3
 TIMOTHY CREEK PROPERTY
 NORANDA EXPLORATION CO., LTD.
 SECTION 99 + 50 N , DDH. NT-2

— SCALE 1:1000 — LAC LA HACHE AREA, B.C. — MAY 1979 — NTS. 92P/14 W —

Thomas D. Lewis

DIAMOND DRILLING

Equipment

Two 80 diameter holes were drilled by a diesel powered Longyear 38 and a Longyear Super 38. The drills were hauled onto the property by a John Deere 450 bulldozer. In addition, the bulldozer was employed to brush out existing roads, cover trenches, and prepare drill sites.

Drilling of the Timothy Property was contracted out to Herb Allen Drilling of Merritt, B.C.

Drilling Statistics

<u>Hole No.</u>	<u>Location</u>	<u>Direction/Dip</u>	<u>Depth</u>
NT - 1A	100+50N, 99+10E	105°/-45°E	159.52m
NT - 2	99+50N, 98+75E	105°/-40°E	158.91m

Drilling Results

The projected extension of the mineralized veins were intersected approximately where expected in both holes. Selected intervals were split and then assayed by Kamloops Research and Assay Laboratory. All assays have been entered adjacent to the appropriate sample interval on the drill log sheets. Gold and silver values are reported in terms of ounces per ton, while copper, lead and zinc values are reported in percentages.

Diamond drilling and assay results on the Timothy Property indicated vein mineralization did not continue to depth. The veins intersected occurred as a series of narrow quartz-carbonate veinlets containing disseminated galena, chalcocite, sphalerite and pyrite. The host rock bordering the sulphide-bearing veinlets exhibited strong alteration, and were tested for economic mineralization. However, these results coincided with the results obtained from the veinlets.



Thomas D. Lewis
Geologist
Noranda Exploration Company, Limited
(No Personal Liability)

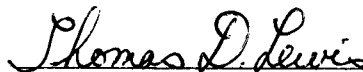
APPENDIX I

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Thomas D. Lewis of the City of Kamloops, Province of British Columbia, do certify that:

1. I have been employed as a geologist by Noranda Exploration Company, Limited since April 1979.
2. I am a graduate of Queen's University with a Bachelor of Applied Science in Geology (1975).



Thomas D. Lewis
Geologist
Noranda Exploration Company, Limited
(No Personal Liability)

APPENDIX II

Drill Logs

745A

NORANDA EXPLORATION COMPANY, LIMITED

Collared May 14/79	Completed May 23/79	Core Size BQ	Property Timothy Creek	Project No 62	NTS No. 92P/14W
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. 100+50N	Elev. 1250m	Dip -45°E	Lat.	Elev.	Dip
Dep. 99+10E	Depth 159.52m	Bearing 105°	Dep.	Depth	Bearing
					Hole No. NT - 1A

Meters	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	angle to core
0-3.66			- casing in overburden					
3.66-19.03	100%		Polymictic agglomerate containing unsorted, subangular to subrounded fragments ranging in size from a few millimetres to .1 metres. Dominant fragment composition is augite and feldspar porphyries, with limestone, chert, siltstone, and dioritic fragments. The matrix is green with a porphyritic texture. Fine disseminated pyrite occurs within the matrix and fragments.					
			-9.58m -9.68m - vaguely bedded lapilli tuff consisting of fragments similar to agglomerate.					
19.03-19.43	100%		Bladed feldspar - augite porphyry containing large feldspars (up to 2cm.) which have been partially altered to epidote.					
19.43-23.53	100%		Unsorted polymictic agglomerate (see above) -25.28m -25.48m - increase in amount of disseminated pyrite to 1-2%.					
23.53-27.45	100%		Unsorted, polymictic lapilli tuff with occasional small (<2cm) agglomerate fragment.					
			- Lapilli - crystal tuff has recognizable bedding at base of unit.					50°
27.45-31.27	100%		Unsorted polymictic agglomerate - 27.98m - small calcite fracture-filling. Calcite in matrix and fragment.					
31.27-31.47	100%		Pyritized breccia containing bleached-grey fragments in a fine greyish black, pyritic? matrix. Minor chalcopyrite stringers within the matrix.	<1%				

DATE May 16, 1979 LOGGED BY TDL Thomas D. Lewis

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size BQ		Property Timothy Creek			Project No 62		NTS No. 92P/14W		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 6	
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No. NT - 1A	
Dep.		Depth		Bearing		Dep.		Depth		Bearing			
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	angle to core		
31.47-31.57	100%		Unsorted, vaguely bedded, <u>polymictic agglomerate</u>										
31.57-31.88			Vaguely bedded, <u>lapilli-crystal tuff</u> (see 23.53m - 27.45m)										
31.88-33.6			Unsorted polymictic agglomerate with dominant fragment size less than .5mm, with occasional fragments up to 4cm. - 32.13m - 32.93m - vaguely bedded.								55°		
33.6-34.64	100%		Vaguely bedded, <u>polymictic lapilli tuff</u> , with interbedded horizons of agglomerate, and tuffaceous sandstone. - 33.6m - gradational contact. - 33.7m - 33.75m - well bedded green tuffaceous sandstone - 34.0m - 34.13m - agglomerate.								40°		
34.64-35.54	100%		Polymictic lapilli tuff grades into <u>polymictic agglomerate</u> . Agglomerate contains interbedded green tuffaceous sandstone, and lapilli tuff.										
35.54-37.78	100%		Fine grained, green, bedded tuffaceous sandstone. - Sharp contact with agglomerates.								60°		
37.78-41.21	100%		Unsorted, <u>polymictic agglomerate</u> with occasional rusted fractures filled with carbonate. - 39.65m - 40.68m - bleached epidote alteration increasing towards limonite-clay-carbonate fracture zone. - 40.68m - 41.21m - limonite-clay-carbonate-hematitic fracture zone.										
41.21-56.25	100%		Sharp contact with white-bladed <u>feldspar-augite porphyry</u> with bleached greenish - white ground mass. Alteration of porphyry decreases with distance from fracture zone noted above. A zone of alteration rims the fracture										

DATE May 16, 1979

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NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size BQ		Property Timothy Creek			Project No 62		NTS No. 92P/14W		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 6	
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.	
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 1A	
Meters	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	angle to core		
41.21-56.25	cont.		zone for approximately a meter either side of the fracture. Disseminated pyrite occurs throughout the porphyry.										
			- 46.23m - 46.53m - bleached epidote alteration - 46.53 m - 46.92m - limonite - carbonate - sericite alteration associated with a chalcopryite - bearing fracture zone.										
			- 46.98m - 47.91m - bleached epidote, alteration, with the feldspars being altered to epidote. - 56.13m - 56.25m bleaching of porphyry, plus gradual decrease in phenocryst size.										
56.25-56.43	100%		Chilled contact with <u>polymictic agglomerate</u>										
56.43-56.84	100%		Bleached <u>feldspar - augite porphyry</u> . Base of porphyry has a chilled contact with agglomerate.										
56.83-60.85	100%		Unsorted altered agglomerate with epidote - calcareous alteration. - 60.85m - limonite fracture forms basal contact.										
60.85-63.17	100%		White - bladed <u>feldspar - augite porphyry</u> showing lineation of feldspar phenocrysts. Finely disseminated pyrite present. Also, some of the feldspars have been altered to epidote. - 62.89m - 63.17m - bleached pale green epidote alteration.										
63.17-63.53	100%		A series of thin vuggy pink <u>carbonate veinlets</u> a few millimetres thick. Blebs of chalcopryite, finely disseminated pyrite, possibly minor bornite, and flecks of galena occur both in the veinlets and porphyry host. Veinlets angle to core is about 80°. Limonite alteration present.								80°		
63.53-64.76	100%		White - bladed <u>feldspar - augite porphyry</u> .										

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NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size BQ		Property Timothy Creek			Project No 62		NTS No. 92P/14W			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 4 of 6		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 1A		
Meters	Rec'y	angle to core	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Gold oz/Ton	Silver oz/ton	Cu	Pb
64.76-71.84	100%		Altered polymictic agglomerate containing fragments in an epidote - calcareous, gritty matrix. - 66.54m - 66.55m - pink calcite vein. - 69.44m - 69.74m - vague banding											
		70%												
71.84-75.27	100%	80%	Altered (epidote - calcareous) polymictic lapilli tuff, with interbedded green tuffaceous siltstone and sandstone. - 74.91m - 75.04m - limonite - bearing fracture zone.											
75.27-78.15	100%		Trachy andesite containing 2mm bladed feldspars in a fine grained, dark green matrix (possibly black dike?) - 76.84m - 77.09m - andesite is altered pale green. - 77.09m - 77.12m - barren calcite - limonite vein.											
78.15-83.63	100%		Altered agglomerate containing dominantly epidote - rich augite porphyry fragments. - 78.15 - limonite - fracture zone forms contact.											
83.63-84.38	100%		As above - 84.03m - 84.3m - agglomerate fragments have been altered to epidote. Blebs of pyrite throughout section. Pink calcareous veins.						P 4334		.005	Tr.	.004	.022
84.38-85.38	100%		As above 84.3m - 84.75m - Alteration and blebs of pyrite are seemingly associated with calcite veinlets.						P 4335		Tr.	.12	.006	.042
85.38-86.49	100%		As above except 85.56m to 86.76m - is white bladed feldspar porphyry. Large blebs (up to 2cm across) of pyrite, and epidote occur throughout this unit.						P 4336		Tr.	Tr.	.003	.008
86.49-87.49	98%		Vuggy calcareous veinlets, containing galena, chalcopyrite, 1% pyrite, and specular hematite-veinlets occur between 86.76m and 87.49m						P 4333		Tr.	.32	.08	.15

86.76m and 87.49m

DATE May 18, 1979

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Collared		Completed		Core Size BQ		Property Timothy Creek			Project No 62		NTS No. 92P/14W					
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 5 of 6				
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.				
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 1A				
Footage	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.	Gold	Silver	Cu	Pb	Zn
87.49-88.49	100%		Altered agglomerate containg epidotized polymictic, unsorted fragments.							P 4337		.006	1.14	.002	.021	
88.49-89.49	100%		As above							P 4338		Tr.	.43	.005	.052	
89.49-91.18	100%		As above - not sampled as rock: looks barren													
91.18-91.93	100%		Altered feldspar - augite porphyry containing white-bladed feldspars up to 2mm. long. Not sampled as rock looks barren													
91.93-92.93	100%		As above							P 4339		.004	.17	.002	.003	
92.93-93.93			As above - 93.03m - 93.06, 93.53m - 93.56m - vuggy calcareous veins containing specular hematite.							P 4340		.007	.32	.01	.006	
			- 93.56m - 93.93m - epidotized polymictic agglomerate													
93.93-94.67	100%		Altered agglomerate containing epidotized polymictic fragments.													
94.67-106.21	100%		Andesite Agglomerate containing dominantly dark green augite porphyry and trachy andesite fragments.													
106.21-113.62	100%		Feldspar - aguite porphyry containing feldspars with a lination. Also some feldspars have been altered to epidote.													
113.62-127.79	100%		Andesite agglomerate - see 94.67 - 106.21m - 124.27m - 124.32m - calcareous veinlet. - 126.46m - 126.79m - epidotized agglomerate. - 120.48m-120.98m altered calcareous vein containing minor galena.													
127.79-146.89	100%		Feldspar - augite porphyry with some of the feldspars altered to epidote.													
			- 146.79m - 146.89 - calcareous veinlet with minor galena and specular hematite.													
146.89-148.86	100%		Dark aphanitic trachy andesite -146.89m - 147.93m - bleached epidote alteration.													

DATE May 23, 1979

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NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size BQ	Property Timothy Creek	Project No	NTS No. 92P/14W
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing
					Hole No. NT - 1A

Meters	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.						
148.89- 150.27	100%		Coarse trachy andesite - similar to above except larger phenocrysts of feldspar (up to 5mm.)										
150.27- 152.08	100%		<u>Trachy andesite</u> - see 146.89 - 148.86m										
152.08- 156.81	100%		<u>Polymictic agglomerate</u> , with section of lapilli tuff.										
156.81- 159.52	100%		<u>Andesite agglomerate</u>										
END OF HOLE													
1454													

DATE May 23, 1979 LOGGED BY TDL Thomas D. Lewis

NORANDA EXPLORATION COMPANY, LIMITED

Collared May 15/79	Completed May 22/79	Core Size BQ	Property Timothy Creek	Project No 62	NTS No. 92P/14W
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. 99+50N	Elev. 1250m	Dip -40°E	Lat.	Elev.	Dip
Dep. 98+75E	Depth 158.91 metres	Bearing 105°	Dep.	Depth	Bearing
					Sheet 1 of 6
					Hole No. NT - 2

Meters	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	angle to core
0-5.19			- Casing in overburden.					
5.19-8.24	100%		Unsorted <u>polymictic agglomerate</u> containing subrounded to subangular fragments in a porphyritic matrix. Due to surface weathering limonite stains much of the agglomerate. Disseminated pyrite occurs in unaltered sections.					
			- 7.66m - sooty grey hairlike fractures containing fine grained pyrite.					
8.24-11.79	100%		<u>Fine grained</u> , mottled greenish-grey <u>tuff</u> . Intense limonite alteration occurs at the tuff-agglomerate contact.					
			- 10.16m - 10.86 - fine grained tuff grades into a tuffaceous sandstone.					
11.79-16.49	90%		Fine grained tuff grades into a coarse <u>polymictic lapilli tuff</u> . Dominant fragment size is less than 2mm. across.					
			Limonite occurs at fractures and penetrates a few centimeters into country rock. Occasional fine grained, dark grey sooty hairlike fractures containing disseminated pyrite. -12.91m - 15.04m - strong limonite alteration. Some fragments are completely rusted. -15.94m -15.98m - a few agglomerate fragments within the tuff.					
16.49-18.08	100%		Lapilli tuff grades into unsorted <u>polymictic agglomerate</u> .					
18.08-18.58	100%		<u>Lapilli tuff</u> with strong limonite alteration throughout					
18.58-19.73	100%		Dominantly fine grained, mottled green <u>silty-tuff</u> with interbedded lapilli tuff. Drill core almost paralleling bedding.					10°

DATE May 17, 1979

LOGGED BY TDL *Thomas D. Lewis*

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size BQ		Property Timothy Creek			Project No 62		NTS No. 92P/14W		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 6	
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.	
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 2	
Metrs	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	to core	angle	
19.73-27.86	90%		Lapilli tuff containing several agglomerate fragments and minor interbedded silty tuff.										
			- 19.73m - contact is fractured with limonite alteration (possibly a faulted contact).										
			- 19.78m - 21.2m - strong limonite alteration. - 25.33m - 26.03m - tightly packed lapilli tuff.										
			- 26.10m - 26.96m - fractured tuff with strong limonite alteration.								25°		
			- 26.96m - 27.76m - bleached greenish-grey alteration, plus two fracture zone and limonite										
27.86-28.06	100%		Fine grained, bleached, pale green, bedded <u>tuffaceous sandstone</u> .										
28.06-29.48	100%		Mottled, bleached greenish-grey, unsorted <u>polymictic lapilli tuff</u> .										
			- 28.26m - 28.34m - alteration is strongest near a vuggy carbonate - limonite vein.										
29.48-40.94	100%		Green <u>trachy andesitic</u> containing phenocrysts of feldspar and augite. The feldspar exhibit a weak lineation.										
			Disseminated pyrite occurs sparingly. Limonite - carbonate fractures occur every few meters.										
			- 30.38m - 30.46m - limonite fracture zone with sooty grey hairlike veinlets.										
			- 33.33m - 33.53m - four hairlike sooty grey veinlets - 34.28m - hairlike quartz veins cutting fine grained										
			hairlike sooty grey vein.										
			- 35.08m - 35.51m - mottled, bleached, pale green alteration of andesite 4 or 5 sooty grey veinlets also occur.										
			- 36.12m - 36.35m - 4 sooty grey veinlets containing pink quartz. Mottled, bleached pale green epidote alteration associated with veinlets.										

DATE May 18/79

LOGGED BY TDL

Thomas D Lewis

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size BQ		Property Timothy Creek			Project No 62		NTS No. 92P/14W			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 6		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 2		
Footage	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.			
29.48- 40.94	cont.		- 37.0m - 37.45m - mottled altered andesite with evidence of faulting (slickensides and fracturing).											
			- 38.93m - 39.78m - andesite becomes dark green, obscuring the phenocrysts.											
			- 40.08m - 40.31m - mottled, bleached alteration associated with minor limonite - carbonate fracture zone.											
40.94- 55.83	100%		<u>Polymictic agglomerate</u> containing dominantly unsorted fragments less than 5mm across.											
			- 40.94m - limonite fracture zone and mottled bleached pale green alteration marks contact.											
			- 43.31m - 44.06m - fractures with associated limonite - 44.55m - 45.4m - 3 minor sooty grey veinlets (veinlets often contain pyrite or chalcopyrite?) - 45.78m - 47.26m - strong limonite alteration											
			- 47.26m - 55.85m - matrix is becoming progressively darker green (less altered).											
			- 50.21m - two hairlike carbonate veinlets. - 50.5m - 50.63m - minor limonite.											
			- 51.86m - 52.01m - fracture zone with abundant limonite. - 52.46 - 52.56 - limonite fracture zone.											
55.83- 61.02	100%		Dominantly <u>polymictic lapilli tuff</u> , containing fragments less than 3mm across, with interbedded tuffaceous sandstone. Occasional agglomerate fragment occurs throughout the section.											
			- 60.42m - 60.62m - mottled pale green alteration consisting of epidote and chlorite.											
			- 60.62m - 61.02m - fractured limonite zone.											

DATE May 18, 1979

LOGGED BY TDL *Thomas D. Lewis*

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size BQ		Property Timothy Creek			Project No 62		NTS No. 92P/14W			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 4 of 6		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 2		
Meters	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.			
61.02-70.46	100%		Bleached mottled <u>trachy andesite</u> with fine grained disseminated pyrite. - 63.44m - 65.98m - andesite becomes darker green - 65.98m - 66.08m - bleached, pale green trachy andesite. - 66.35m - 67.41 - mottled, bleached fracture zone showing evidence of faulting (slickensides and rock flour) - 68.01m - 68.54m - fracture zone with carbonate fracture filling and rock flour. - 68.91m - 70.46m - bleached, trachy andesite with pink carbonate spots.											
70.46-73.75	100%		Unsorted, bleached, mottled polymictic agglomerate - 70.46m - fractured contact, with alteration becoming less intense away from contact.											
73.75-74.32	100%		Subrounded monolithic andesite breccia containing disseminated pyrite.					½% PY.						
74.32-81.21	100%		Unsorted <u>polymictic agglomerate</u> - 76.24m - 76.38m - green tuffaceous sandstone. - 76.38m - 81.21m - gradual decrease in fragment size, eventually grading into a lapilli-size tuff.											
81.21-84.07	100%		Coarse, gritty, <u>lapilli tuff</u> containing thin horizons of green tuffaceous sandstone. - 82.2m - 84.32m - mottled, pale green (epidote) alteration - 83.78m - 84.07m - fracture zone, with strong Kaolin(?) alteration and rock flour.											
84.07-89.05	100%		Green <u>trachy andesite</u> containing small (<2mm) white feldspar laths and small dark green pyroxene phenocrysts. Disseminated pyrite throughout section.											

DATE May 18/79

LOGGED BY TDL *Thomas D. Lewis*

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size BQ		Property Timothy Creek		Project No 62		NTS No. 92P/14W					
FIELD COORDINATES						SURVEYED COORDINATES									
Lat.		Elev.		Dip		Lat.		Elev.		Dip					
Dep.		Depth		Bearing		Dep.		Depth		Bearing					
Meters	Rec'y	angle to core	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Gold oz/Ton	Silver oz/Ton	Cu	Pb	Z
84.07-89.05	cont.		- 84.57m - 85.07m - bleached, altered andesite surrounding a 2cm. carbonate veinlet. Slickensides associated with the veinlet.												
			- 85.96m - 1.5cm veinlet of carbonate containing small blebs of sphalerite, galena and chalcopyrite				5%								
89.05-90.35	100%		Bleached, altered, epidote-rich, agglomerate with associated minor calcite veins and fractures.												
90.35-91.95	100%		Coarse feldspar - augite porphyry containing white bladed feldspars up to 5mm. long.												
			- 91.6m - 91.95m - bleaching of fractured porphyry, with limonite on fracture surfaces.												
91.95-31.27	100%		Altered agglomerate with strong epidote alteration and dominant fragment size about .5 to 1cm.												
			- 97.1m - 98.4m - vaguely bedded tuffaceous sandstone.												
			- 119.75m - 119.76m - carbonate veinlet.												
		45°	- 126.07m - 126.12m - green bedded tuffaceous sandstone.												
31.27-32.27	98%		As above - 131.57m - 131.59m - carbonate veinlet.						P 4341		.005	.19	.01	.16	
			- 131.87m - 131.89m - small carbonate veinlet containing minor galena (1/2%).												
32.27-33.27	100%		As above - 132.67 - 132.77 - carbonate veins containing galena and chalcopyrite.						P 4342		.004	1.12	.02	3.42	
33.27-34.27	100%		As above						P 4343		Tr.	Tr.	.01	.05	

DATE May 24, 1979

LOGGED BY

TDL

Thomas D Lewis

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size BQ		Property Timothy Creek			Project No 62		NTS No. 92P/14W				
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 6 of 6			
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.			
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 2			
Meters	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Gold oz/Ton	Silver oz/Ton	Cu	Pb	Z
134.27- 145.17			As above - 142.90m - veinlet of carbonate containing a few flecks of chalcopyrite and galena.												
			- 144.52m - veinlet of carbonate containing a few flecks of chalcopyrite, galena and specular hematite.												
			- 145.13m - 145.17m - carbonate veins containing small blebs of chalcopyrite, specular hematite, and galena												
145.17- 149.57	100%		<u>Trachy andesite</u> - small feldspar laths in an aphanitic greenish-grey groundmass.												
149.57- 150.57	100%		Fractured, bleached <u>altered andesite</u>						P 4344		Tr.	Tr.	.02	.06	
150.57- 151.57	100%		As above - 151.34m - 151.57 - carbonate vein containing blebs of chalcopyrite, and covellite.				10%		P 4345		.006	1.62	.02	.08	
151.57- 152.57			As above						P 4346		Tr.	Tr.	.02	.03	
152.57- 154.82	100%		<u>Trachy andesite</u> - with bleached altered sections associated with fractures												
154.82- 155.82	100%		As above - 155.82m - 156.0m - series of carbonate veins containing mainly chalcopyrite, with minor galena				cpy 3%		P 4347		.004	.10	.05	.01	
155.82- 158.91	100%		Epidotized <u>altered agglomerate</u>												
			END OF HOLE												

1454

APPENDIX III
Statement of Cost

7454

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT Timothy Creek - Gunn Option
TYPE OF REPORT Diamond Drilling

DATE July 1979

a) Wages:

No. of Days 49
Rate per Day \$ 108.4644
Dates: from Feb. 19/79 to June 30, 1979
Total Wages 49 x \$ 108.4644 5,314.76

b) Food and Accomodation:

No of days 49
Rate per day \$ 14.1081
Dates: from Feb. 19/79 to June 30/79
Total Cost 49 x \$ 14.1081 691.30

c) Transportation:

No of days 49
Rate per day \$ 18.2404
Dates: from Feb. 19/79 to June 30/79
Total Cost 49 x \$ 18.2404 893.78

d) Instrument Rental:

Type of Instrument
No of days
Rate per day \$
Dates: from to
Total Cost X \$

Type of Instrument
No of days
Rate per day \$
Dates: from to
Total Cost X \$

f) Analysis Kamloops Laboratory		295.50
g) Cost of preparation of Report		
Author	216.93	
Drafting	632.00	
Typing	400.00	1,248.93
h) Other:		
H. Allan D.D.	15,579.75	
Supervision: R.C. Heim PhD, P. Eng., 9 days @ 226	2,034.00	17,613.75

Total Cost

26,058.02

e) Unit costs for Diamond Drilling

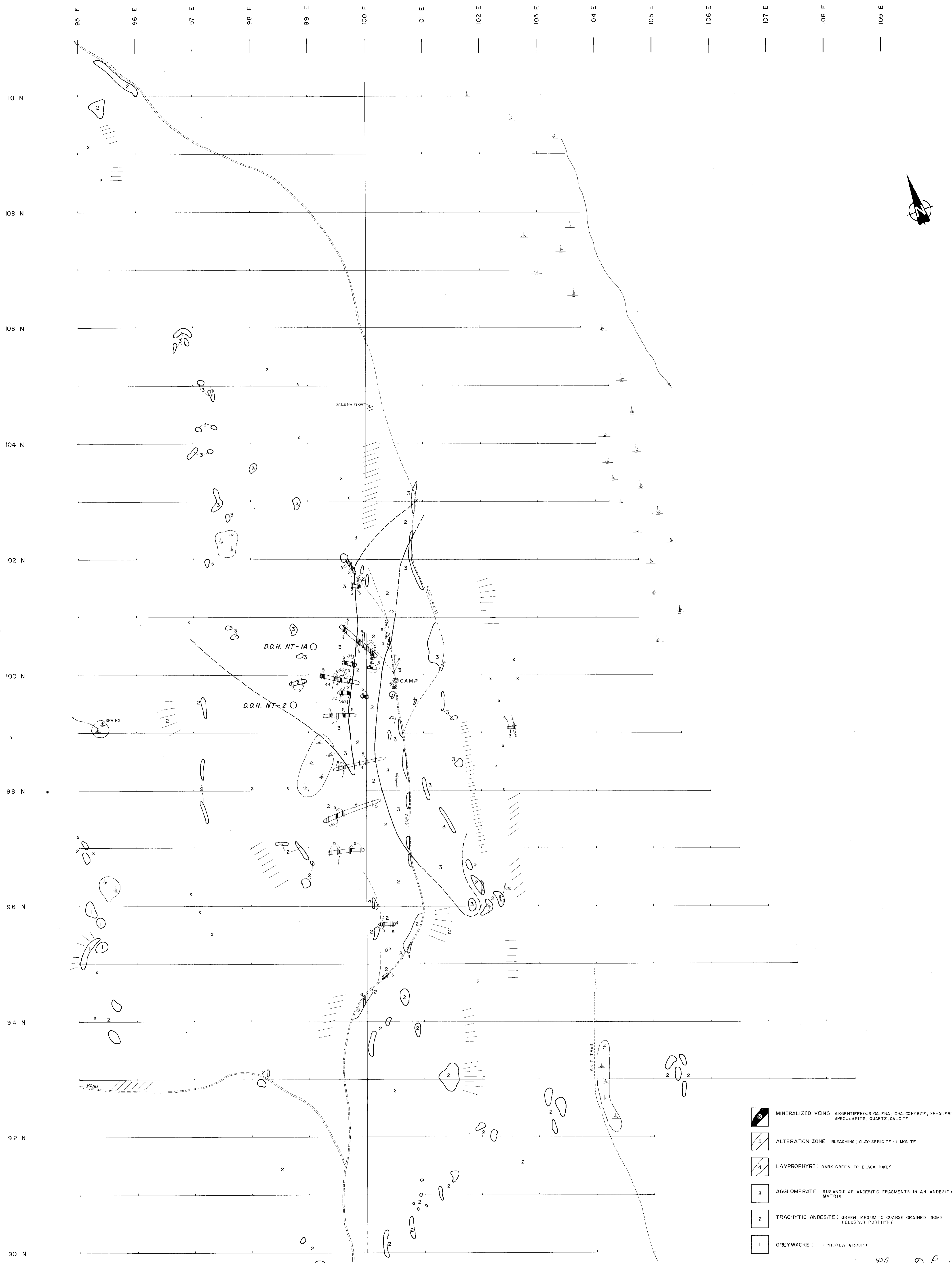
No of days 49 Dates: from Feb. 19/79 to June 30/79

No of units 338.02 m.

Unit costs \$77.09017 / m

Total Cost 338.02 x \$77.09017

26,058.02



- MINERALIZED VEINS: ARGENTIFEROUS GALENA; CHALCOPYRITE; SPHALERITE; SPECULARITE; QUARTZ; CALCITE
- ALTERATION ZONE: BLEACHING; CLAY-SERICITE-LIMONITE
- LAMPROPHYRE: DARK GREEN TO BLACK DIKES
- AGGLOMERATE: SUBANGULAR ANDESITIC FRAGMENTS IN AN ANDESITIC MATRIX
- TRACHYTIC ANDESITE: GREEN, MEDIUM TO COARSE GRAINED; SOME FELDSPAR PORPHYRY
- GREYWACKE: (NICOLA GROUP)

- TRENCH (Width exaggerated)
- SHEARING (intense)
- FLOAT
- PROBABLE OUTCROP
- OUTCROP
- CONTACT
- ROAD

MINERAL INVESTIGATION
ASSEMBLY
7454

Thomas D. Lewis
TO ACCOMPANY GEOLOGICAL AND GEOCHEMICAL REPORT ON THE WESTIM, WESTIM2, 3, RAINBOW 1, 2, 3 MINERAL CLAIMS, CLINTON M.D. BY L.C. REINERTSON
DATED:
AND DIAMOND DRILL REPORT BY T.D. LEWIS
DATED: JULY 1979

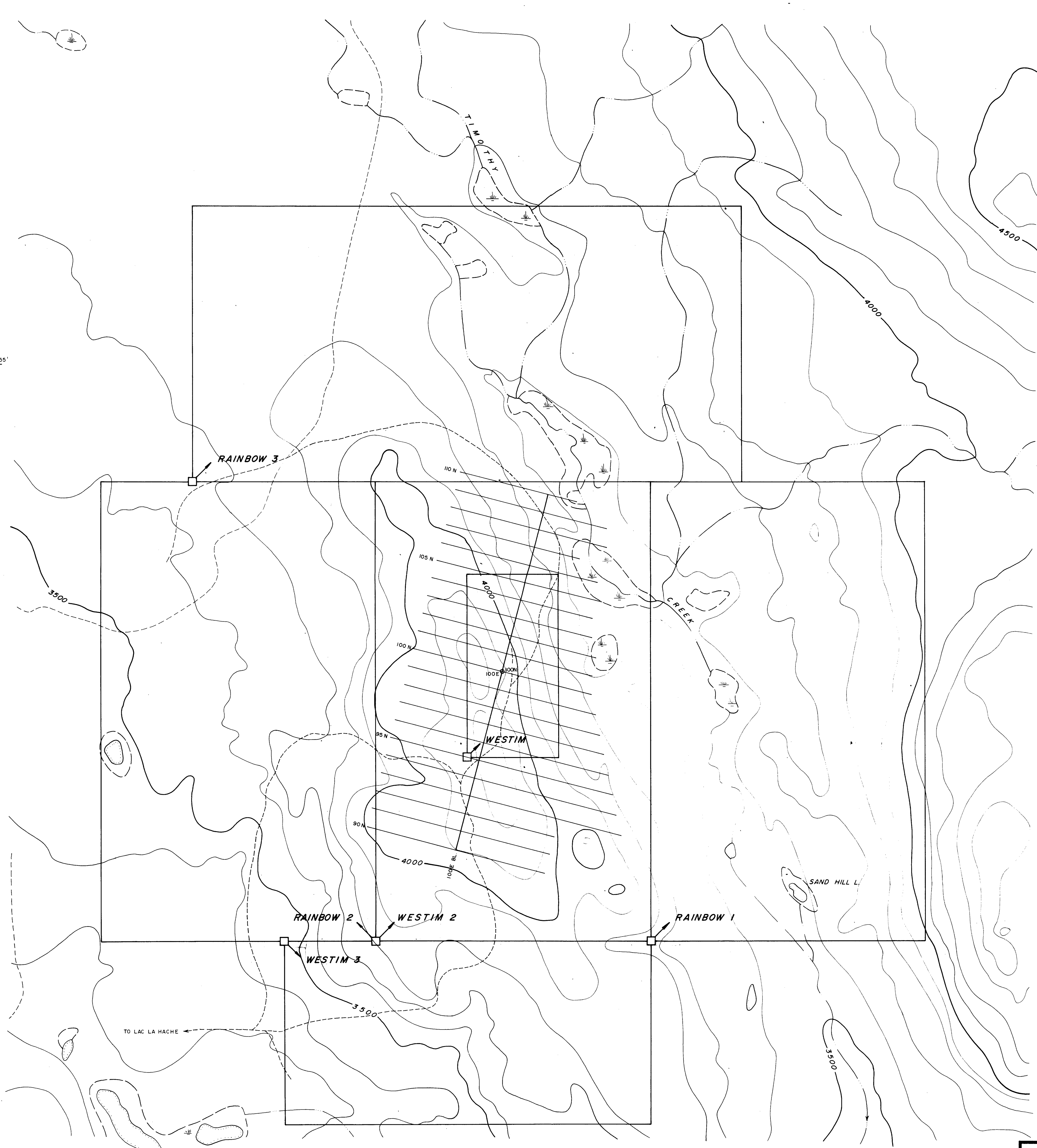
REVISED AUGUST 8/1979	TIMOTHY CREEK (GUNN OPTION)
DRILL PLAN	
PROJ. No. 62 N.T.S. 92 P./14W DWG. No. 4	SURVEY BY: L. REINERTSON DATE: NOV. 1978 DRAWN BY: JAN VAN VOORST SCALE: 1:2500 NORANDA EXPLORATION OFFICE: VANCOUVER



121° 20'

51° 55'

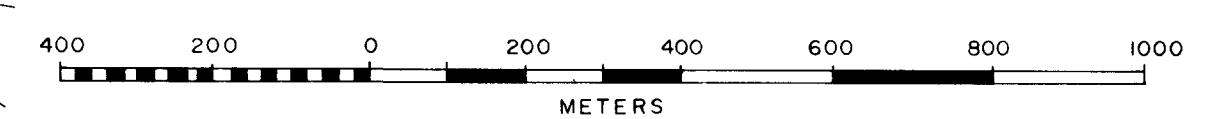
51° 55'



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
7454
NO.

TO ACCOMPANY GEOLOGICAL AND GEOCHEMICAL REPORT ON THE WESTIM,
WESTIM 2,3, RAINBOW 1,2,3 MINERAL CLAIMS, CLINTON M.D., B.C.
BY L. C. REINERTSON
DATED:
AND DIAMOND DRILLING REPORT BY T. D. LEWIS
DATED: JULY 1979

Thomas D. Lewis



REVISED	TIMOTHY CREEK (GUNN OPTION)	
NOV. 1978		
AUGUST 8/1979		
	CLAIM & GRID LOCATION MAP	
PROJ. No. 62	SURVEY BY: L. REINERTSON	DATE: AUGUST 1978
N.T.S. 92P/14W	DRAWN BY: JAN. VAN VOORST	SCALE: 1:10,000
DWG. No.	NORANDA EXPLORATION	
5	OFFICE: VANCOUVER	

121° 20'