8H-1313-13309

GEOLOGY, ROCK AND SOIL GEOCHEMISTRY

THIBERT CREEK PROPERTY

T.C. 1 - 14 CLAIMS

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,309

Liard Mining Division

British Columbia

Latitude -- 58 deg. 50' N
Longitude -- 130 deg. 15' W

by: Dennis Gorc, and R. MacArthur

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

October, 1984

N.T.S. 104 J/16E&W

TABLE OF CONTENTS

LIST OF FIGURES

APPENDICES

APPENDIX A	Analytical Method - Noranda LAB
APPENDIX B	Cost Statement
APPENDIX C	Statement of Qualifications

INTRODUCTION:

In September 1983 the TC 1-14 claims (250 units) were staked for Noranda Exploration, 40 kilometers northwest of the settlement of Dease Lake in the Thibert Creek area. These claims overlie several gold placer creeks which had produced more than 70,000 oz. (2,000 kg) of gold up to 1949. Mother Lode Belt type gold mineralization was the target during the 1983 and 1984 exploration efforts.

During late September and early October 1983 293 soil samples, 104 rock ship samples and 2 silt samples were taken on the property. Soil and silt samples were analyzed for Cu, Zn, Pb, Ag, Mo, Ni, Co, As and Au. Rock samples were analyzed for Au, Ag, and As. Some geological mapping was also done and several exposures of quartz-carbonate-mariposite alteration were discovered within ultramafic rocks.

From September 17 to October, 1984, D. Gorc and two assistants flagged a grid over the central portion of the TC 8-14 claims. This grid was designed to traverse the Thibert Creek Fault. Stations were established every 25 m along each line. Lines were spaced 300 m apart. Soil samples were taken at each station and every 100 m along the baseline. A total of 1050(?) soil samples were taken and analyzed for Au??

Additional geological mapping was also done with special attention paid to the bodies of ultramafic rock. Several lines of continuous rock chip sampling was done across several of the larger ultramafic exposures. These rock chip samples were analyzed for Au.

Both programs were carried out under the direction of R. MacArthur, District Geologist, Noranda Exploration.

LOCATION AND ACCESS:

The TC claims are located on mapsheet 104J/16 East and West, 40 kilometers northwest of the settlement of Dease Lake and 1.5 kilometers west of the Stewart-Cassiar highway.

Cat trails and rough roads extend westward from Dease Lake to several of the small gold placer operations which still operate sporadically. It is said that these roads can be reached by fords across the Dease River during low water.

The most reliable access is by helicopter from the settlement of Dease Lake. Float planes can land at Adsit Lake from which there is a rough cat road to the placer operations on Defot Creek.

CLAIMS:

Table 1 Claim Data - Thibert Creek

Claims Owned by Noranda Exploration Company, Ltd.

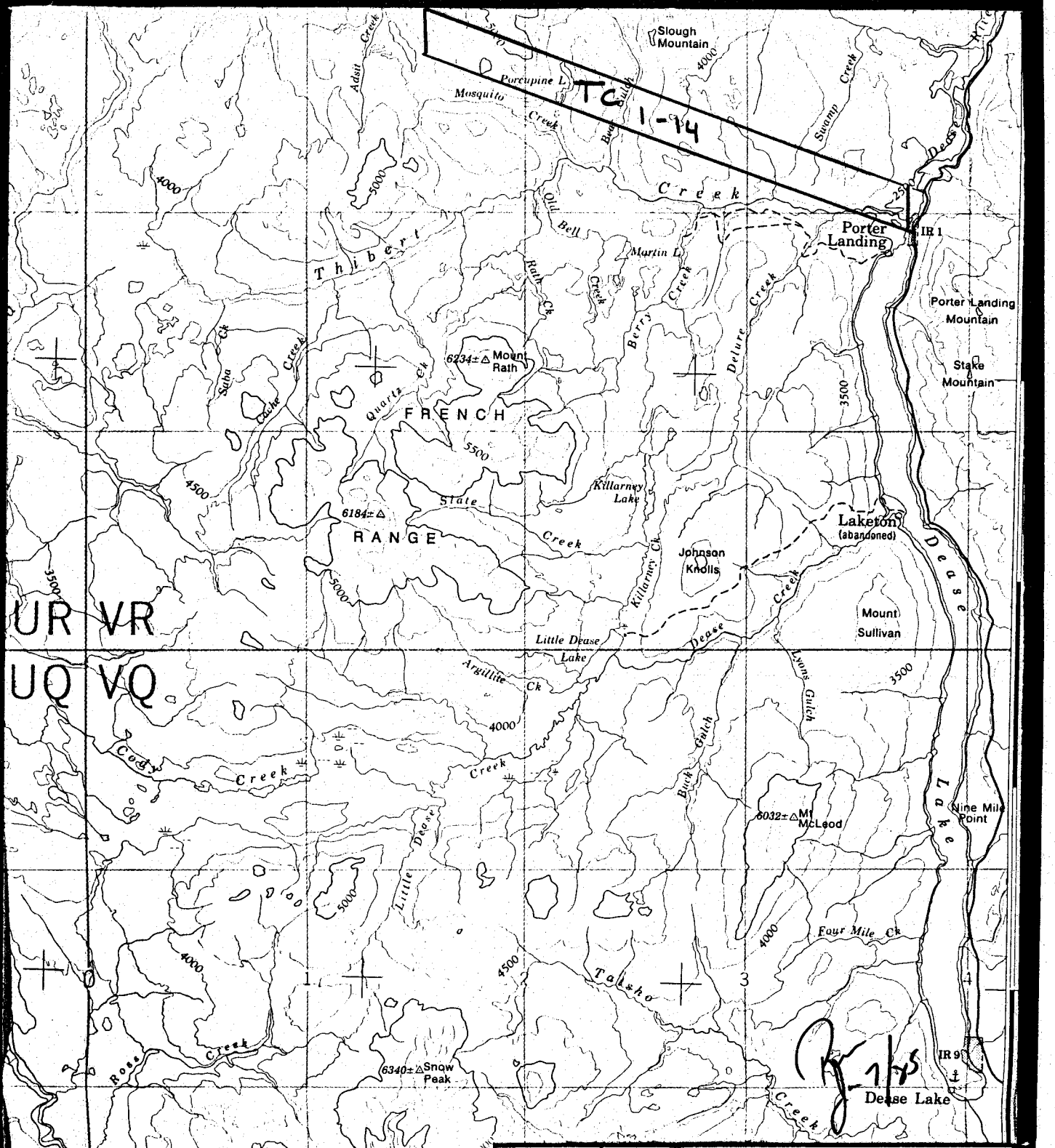
CLAIM NAME	# OF UNITS (1983)	# OF UNITS (1984)	RECORD #	RECORD DATE
TC 1	18	12	2965(10)	Oct. 11/83
TC 2	18	12	2966(10)	" "
TC 3	18	12	2967(10)	" "
TC 4	18	12	2968(10)	" "
TC 5	18	9	2969(10)	" "
TC 6	18	9	2970(10)	" "
TC 7	18	18	2971(10)	" "
TC 8	18	18	2972(10)	" "
TC 9	18	18	2973(10)	" "
TC 10	20	16	2974(10)	" "
TC 11	20	20	2975(10)	" "
TC 12	20	12	2976(10)	" "
TC 13	8	4	2977(10)	" "
TC 14	20	12	2978(10)	" "
	250	184		

Grouping of claims: Reduced October 1984

Group Name	claims	# Units
TC East	TC 1-7	84
TC West	TC 8-14	100

EXPLORATION HISTORY:

Placer gold was first discovered, in what is now Thibert Creek in 1873. This discovery was made by a member of a party of prospectors lead by Henry Thibert, about three miles (4.8 km) above the mouth of Thibert Creek near Delure Creek. Other areas draining into and near Thibert Creek were soon found to contain gold. The creeks that were actively mined as well as Thibert and Delure included Boulder, Defot, Mosquito, Porcupine and Vowell Creeks. The production from these creeks is recorded as being more than 70,000 ounces (2,000 kg) up until 1949. Most of the production occurred before the Klondike



REVISED	LOCATION MAP
	THIBERT CREEK PROPERTY TC - 1 - 14 CLAIMS
PROJ. No.	SURVEY BY: DATE:
N.T.S. 104J	DRAWN BY: SCALE: 1:250,000
DWG. No. Fig 1	NORANDA EXPLORATION OFFICE:

gold rush lured away most of the local prospectors. There have been short periods of intensive work since then and presently there are a few placer operations active in the area.

About two-thirds of the gold production was from Thibert Creek where economic gold placers are restricted to rock benches 5 to 200 feet (1.5 m to 61 m) above the present stream channel.

It has been reported that concentrates from the Thibert Creek placer operations contained about 2 oz/ton platinum.

The only hard rock gold source noted in government literature is the Keystone showing. This is described as being on 8 claims on Thibert Creek below Berry Creek. "Open-cutting and stripping has exposed a zone of quartz stringers in quartz porphyry". The owner reported gold values up to $5.50/ton (gold at $17/oz.) across a width of 40 feet (12 m).

This showing was not located during the 1983-84 field work.

The Dease Lake area was covered by reconnaissance prospecting-sampling for porphyry type deposits early in the 1970's.

REGIONAL GEOLOGY:

The Thibert Creek occurs along the northeastern boundary of the Atlin Terrane which is a fault-bounded area of Upper Paleozoic rocks. Many sections of this fault boundary, including the Thibert Creek area, are marked by small ultramafic bodies. Structural evidence suggests that the Atlin Terrane is a large thrust sheet affected by compressional forces and marked at least on the southern edge by thrust or reverse faults.

The upper Paleozoic rocks of the Dease Lake area have been affected by two phases of deformation. The older phase is marked by penetrative foliation and associated pumpellyite-chlorite regional metamorphism. The second and more common phase consists of crumbling associated with strain-slip clevage.

LOCAL GEOLOGY:

Kedahda formation (Mississippian to Permian)

On the property this formation consists of very schistose quartzite and lesser black, platy argillite. The strike of the well developed schistosity of foliation roughly parallels the Thibert Creek Fault. The schistosity generally dips 60 to 70 degress southerly.

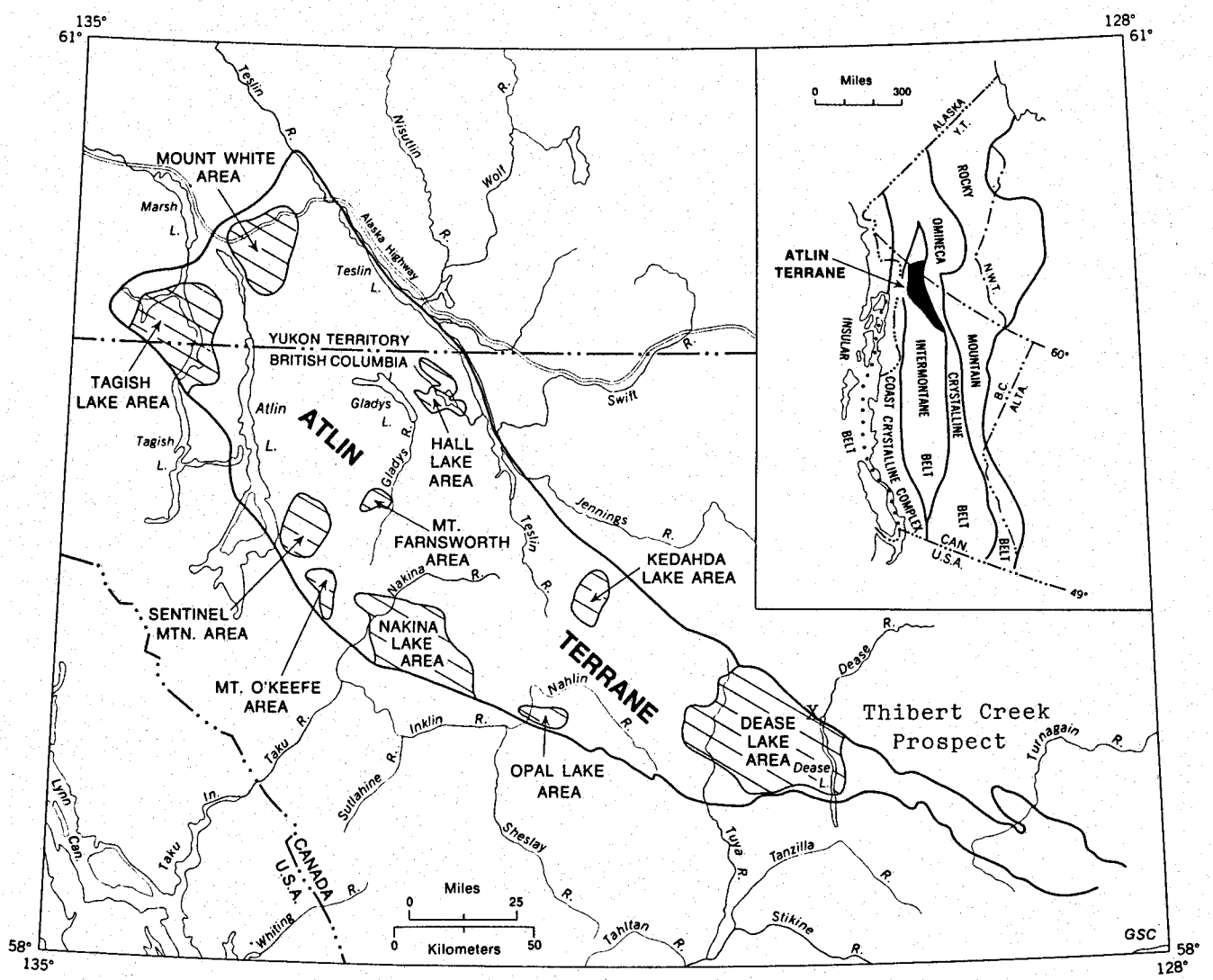


Figure 1. Index maps showing (a) location of the Atlin Terrane within the Canadian Cordillera, and (b) areas studied in detail within the Atlin Terrane.

After Monger (1975)

These rocks contain numberous coarse-grained white quartz lens within a 200 m to 400 m wide band south of the Thibert Fault. Such lens range up to 30 cm in width and 6 meters in length but are generally much smaller. Only rare trace sulphides were noted within these lenses. No alteration was noted adjacent to the lenses.

Nazcha Formation (Upper Triassic)

This formation underlies the northwestern portion of the property.

The formation consists of fine grained, well bedded light grey sandstone with varying but significant amounts of black argillaceous rocks. Bedding varies from 10 cm to 1 metre in thickness with occasional more massive horizons.

Exposures of this formation are found along a branch of Defot Creek in the westernmost portion of the property. At this location the formation can be divided into three units. The easternmost consists of massive to thickly bedded sandstone with less than 10% argillite. A central unit with alternating horizons of sandstone and argillite vary from several metres to 5 - 25 cm in thickness. The westernmost unit consists of alternating sandstone and argillite horizons but such horizons are generally 5 cm or less thick giving the rock a distinctive banded appearance. Graded bedding is readily visible within this unit with tops consistently up. Occasional sandstone horizons are up to 30 cm thick.

Proceeding southwest from Defot Creek along the above branch, one is struck by the increased crumbling, folding, and shearing within the formation as one nears the Thibert Creek Fault. Two degree bedding azimuth dipping 12 degrees easterly. Similar contorted bedding is seen near sample site 61108. Despite abundant contortions and bedding as flat as 20 degrees, beds generally dip 75 degrees N.

Shonektaw formation (Upper Triassic)

This formation occurs within the central portion of the claim group. The formation consists of augite andesite and basalt. Only a few outcrops of this formation were observed. These formations consisted of fine grained, greenish, volcanic. The greenish colour is suggestive of small amounts of chlorite and perhaps epidote. At the eastern end of Grid 2 several exposures are fractured and sheared with small amounts of ironstaining.

Limestone

Outcrops of limestone up to 80 m wide are exposed along the upper parts of Porcupine Creek. Sporadic exposures occur for a distance of 500 m along the creek. These outcrops can be seen from a distance due to their whitish weathered surfaces.

On a fresh surface the limestone is light grey with a distinctive ribboned appearance. Such a texture is suggestive of algal layering. The limestone seems to consist of pure carbonate with no other material other than carbonate noted within the rock. Crosscutting white calcite veinlets are common. Locally the limestone appears to be partially silicified. No sulphides were noted within this formation.

Government mapping has shown both the Nazcha Formation and Kedahda Formation to contain limestone lens. The limestones seen along Porcupine Creek likely belong to the Nazcha Formation but this is uncertain.

Gradondiorite (Late Triassic and Early Jurassic)

Granitic rocks, including biotite-hornblende quartz diorite, granodiorite, quartz monzonite and diorite, underlie the northern portions of several claims.

ULTRAMAFIC (Mississipian to Permian)

Ultramafic bodies in the Atlin Terrane have been divided into three types; elongate bodies occuring along the fault contacts to the Atlin Terrane, equidimensional bodies within the Atlin Terrane and bodies associated with Permo-Triassic volcanism at the northwestern end of the terrane.

These rocks are described by Monger (1975): "These rocks are predominately enstatite-bearing periodotite or harzburgite and dunite; partially or wholly serpentinized and serpentine of indeterminate origin. Locally they contain irregular lenses and layers of pyroxmite; some of which contain clinopyroxene that may form piokilitic crystals enclosing olivine grains."

The ultramafics at Thibert Creek would be classified as "alpine type" ultramafics.

For reference several of the Thibert Creek ultramafic bodies have been labelled "A", "B", "C", "D", "E", "F".

The exposures of ultramafic can be divided into three types;

a) unaltered, fine grained, black peridotite
b) serpentinite
c) quartz-carbonate-mariposite altered rock

Peridotite:

Small pockets of black, fine grained peridotite are found within all ultramafic bodies visited. Such pockets vary from a few meters to a few centimetres in width. Occasionally such rock was seen near the outer edges of ultramafic bodies. Periodotite would comprise less than 1% of most ultra mafic bodies.

Serpentinite:

Dark green waxy serpentine comprises a significant proportion of the ultramafic rocks found between Porcupine Lake and Thibert Creek. No serpentine was seen in ultramafics "A", "B", and "C". Serpentine with trace asbestos was noted within a 15 m wide shear zone crosscutting ultramafic "D".

Quartz-Carbonate-Mariposite Alteration:

The ultramafic bodies occuring along Thibert Creek consist largely of quartz-carbonate-mariposite altered rock. Many of the ultramafic bodies, such as bodies "A", "B", "C", and "D" consist of greater than 90% altered rock.

Silica would appear to be by far the predominant constituent. Emerald green mariposite is present in variable amounts but is also present even if in only trace amounts. Small amounts of calcite and whitish carbonate tentatively identified as magnesite are also present. Since magnesite often incorporates silica into its lattice and forms, a chert-like appearance, some of what appears to be silica may be magnesite and therefore the amount of carbonate may be much greater than it appears.

Outcrops of this altered rock are characteristically brightly iron-stained with orange goethite. Outcrops are also often laced with abundant quartz veinlets generally less than 1 cm thick. Only very rare trace pyrite was seen in such veins. Similar networks of thin quartz veinlets was observed within sedimentary rocks adjacent to the ultramafic bodies (sample sites 054067, 61044, 61020).

Small flecks of a silvery-grey sulphide tentatively identified as arsenopyrite was seen on some fracture surfaces.

GEOCHEMISTRY:

Collection

During 1983, 104 rock, 293 soil and 2 silt samples were collected at locations as shown in fig. #4 (6 sheets). Samples were collected on reccy compass and flag lines or during the course of geological prospecting traverses. All samples were given five or six digit numbers (using numbered sample tickets) and the site marked with a corresponding flag.

During 1984, 193 rock, 1050 soil and 1 silt samples were collected. The results of the rock and silt sampling are shown on fig. #4 (6 sheets) and the results of soil sampling are shown on fig. #5 (3 sheets) and fig. #6 (3 sheets).

All soil samples were collected from the "B" horizon where distinguishable. However, due to the poor soil profile development the actual sample material often consisted of mixed "B" and "C" horizens. Samples were placed in Kraft envelopes and air dried then shipped to the Noranda Lab in Vancouver for analysis.

Silt samples were collected from the finest clastic sediment available in the active stream channel. These were placed in Kraft envelopes, air dried and shipped to the Noranda Lab in Vancouver.

Rock geochem samples were collected by collecting a .25 to 2 kg sample of rock chips from outcrop, or rubble around the sample site. In areas where the sample site is indicated by a long line with two arrows, a composite sample was collected roughly along the indicated line. These samples were generally larger than samples from individual sites.

Analysis:

The 1983 rock samples were analysed for Au, Ag, As. The 1983 silt and soil samples were analysed for Cu, Zn, Pb, Ag, Mo, Ni, Co, As, Au.

The 1984 samples were analysed for Au only. The 1984 silt and soil samples were analysed for Au, Ag, As, Pb.

A description of the analytical technique used is given in Appendix #1.

Results:

A review of the data indicates one main area of interest indicated as "Anomaly A" fig. #6, sheet #2. The area occurs between Line 139+00E and 148+00E north of the Base line 100+00N. Within this area most values are anomalous in either Au or As with values of up to 430 PPb Au and 1000 PPM As recorded. A comparison with the geology and rock geochem data (fig. #4) indicates the area is underlain by ultramafic rocks with a north south trending fault zone having been mapped. In addition the highest values from rock sampling in the 1983 work and 1984 work came from this area.

Other areas of potential interest are "Anomaly B" (see Fig #5, sheet 1, line 127+00E north of BL 100+00N) with values of 20 PPb Au and up to 240 PPM As as well as anomalous Ag values greater than 1 PPM and Pb values greater than 20 PPM. "Anomoly C" (see Fig. #5, sheet 1, line 97+00E and line 100+00E south of BL 100+00N) with As values up to 1000 PPM (1984 soils) and 1400 PPM (1983 soils) High Ni values up to 1800 PPM are also associated with this anomaly. A weak Pb-Zn-Ag anomaly flanks the area of high As values to the south and west.

RECOMMENDATIONS:

The area indicated an Anomaly "A" should be followed up with more detailed mapping, soil and rock sampling. Magnetometer and VLF-EM surveys could be useful in mapping the structure and different phases or alteration of the ultramafic in the area.

Further prospecting and sampling is warrented in the other areas indicated "Anomoly B" and "Anomoly C".

If the north trending structure indicated in the area of "Anomoly A" proves to be significant then the data on the entire area should be reviewed with this in mind. Since the work done to date has been on relatively wide spaced lines (300 m) run in a northeast southwest direction they could straddle a significant northsouth structure.

REFERENCES

Gabrielse, H.: Monger, J.W.H. et al, "Geology Dease Lake (104J) Map Area", Open File 707 Geological Survey of Canada, 1979.

Hader, Kent: "Thibert Creek Property", Noranda Exploration Memorandum, November 1983.

Johnston, W.A.: "Gold Placers of Dease Lake Area, Cassiar District, B.C.", Summary Report, 1925, Part A Geological Survey of Canada.

Monger, J.W.H.: "Upper Palezoic Rocks of the Atlin Terrane Northwestern British Columbia and South-Central Yukon", Paper 74-47, Geological Survey of Canada, 1975.

Map 21-2962: "Dease Lake (104J)", Geological Survey of Canada, 1962

B. C. Department of Mines, Bulletin #21, pg. 19, and #28, pg. 57

B. C. Minister of Mines, Annual Report 1931, pg. A53

APPENDIX A

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

The methods listed are presently applied to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver.

Preparation of Samples

Sediments and soils are dried at approximately 80°C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for geochemical analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). Heavy mineral fractions (panned samples * from constant volume), are analysed in its entirety, when it is to be determined for gold without further sample preparation.

Analysis of Samples

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of rock or core are weighed out at 0.4 g and chemical quantities are doubled relative to the above noted method for digestion.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn can be determined directly from the digest (dissolution) with a conventional atomic absorption spectrometric procedure. A Varian-Techtron, Model AA-5 or Model AA-475 is used to measure elemental concentrations.

Elements Requiring Specific Decomposition Method:

Antimony - Sb: 0.2 g sample is attacked with 3.3 ml of 6% tartaric acid, 1.5 ml conc. hydrochloric acid and 0.5 ml of conc. nitric acid, then heated in a water bath for 3 hours at 95°C. Sb is determined directly from the dissolution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.3 g sample is digested with 1.5 ml of perchloric 70% and 0.5 ml of conc. nitric acid. A Varian AA-475 equipped with an As-EDL is used to measure arsenic content in the digest.

Barium - Ba: 0.1 g sample digested overnight with conc. perchloric, nitric and hydrofluoric acid; Potassium chloride added to prevent ionization. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 g - 0.3 g is digested with 2.0 ml of perchloric 70% and 1.0 ml of conc. nitric acid. Bismuth is determined directly from the digest with an AA-475 complete with EDL.

Gold - Au: 10.0 g sample is digested with aqua regia(1 part nitric and 3 parts hydrochloric acid). Gold is extracted with MIBK from the aqueous solution. AA is used to determine Au.

Magnesium - Mg: 0.05 - 0.10 g sample is digested with 4 ml perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the

range of atomic absorption. The AA-475 with the use of a nitrous oxide flame determines Mg from the aqueous solution.

Tungsten - W: 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

Uranium - U: An aliquot from a perchloric-nitric decomposition, usually from the multi-element digestion, is buffered. The aqueous solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

* N.B. If additional elemental determinations are required on panned samples, state this at the time of sample submission. Requests after gold determinations would be futile.

LOWEST VALUES REPORTED IN PPM

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.01
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

EJvL/ie
March 14, 1984

APPENDIX B

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

DATE October 1984

PROJECT - Thibert Creek
TYPE OF REPORT Geology, Geochem & Linecutting

a) **Wages:**

No. of Days - 85 **Rate per Day -** 109.30 **Dates From -** Sept. 83 - Oct 84 **Total Wages** 8088		$ 9,290.50

b) **Food and Accommodation:** and Supplies

No. of Days - 85 **Rate per Day -** 20.85 **Dates From -** Sept. 83 - Oct. 84 **Total Cost -** 1,772.25		$ 1,772.25

c) **Transportation:**

No. of Days - 85 **Rate per Day -** 110.85 **Dates From -** September 83 - October 84 **Total cost** 8,202.90		$ 9,422.25

d) **Analysis** $12,628.70 $ 12,628.70

e) **Cost of Preparation of Report** $ 1,500.00

Author $800
Drafting $600
Typing $100

f) **Other:**

Contractor

Total Cost $ 34,613.70

UNIT COSTS

Unit Costs for Geology

No. of Days - 51
No. of Units -
Unit costs - $258.647
Total cost - $13,191.00

Unit Costs for Geochem

No. of Days - 34
No. of Units -
Unit Costs - $258.64
Total cost - $8,794.00

ANALYSIS

1983

Rock Geochem	
104 x As, Ag, Au	
104 x 9.60	998.40
Soil	
293 x Cu, Zn, Pb, Ag, Mo, Ni, Co, As, Au	
293 x $11.20	3,281.60
Silt	
2 x Cu, Zn, Pb, Ag, Mo, Ni, Co, As, Au	
2 x $11.20	22.40
	$ 4,302.40

1984

Rock Geochem	
193 x Au	
193 x $5.50	1,061.50
Soils	
1006 x Au, Ag, As, Pb	
1006 x $7.20	7,243.20
Silt	
1 x Au, Ag, As, Pb	
1 x $7.20	21.60
Total Analysis	$12,628.70

APPENDIX C

STATEMENT OF QUALIFICATIONS

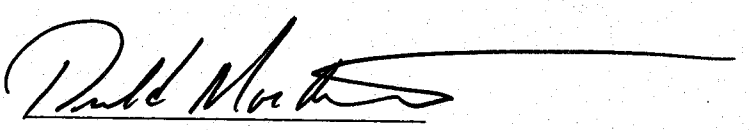
I, Ronald G. MacArthur hereby certify that:

1. I am a graduate of Dalhousie University with a Bachelor of Science Degree in Geology (1972).

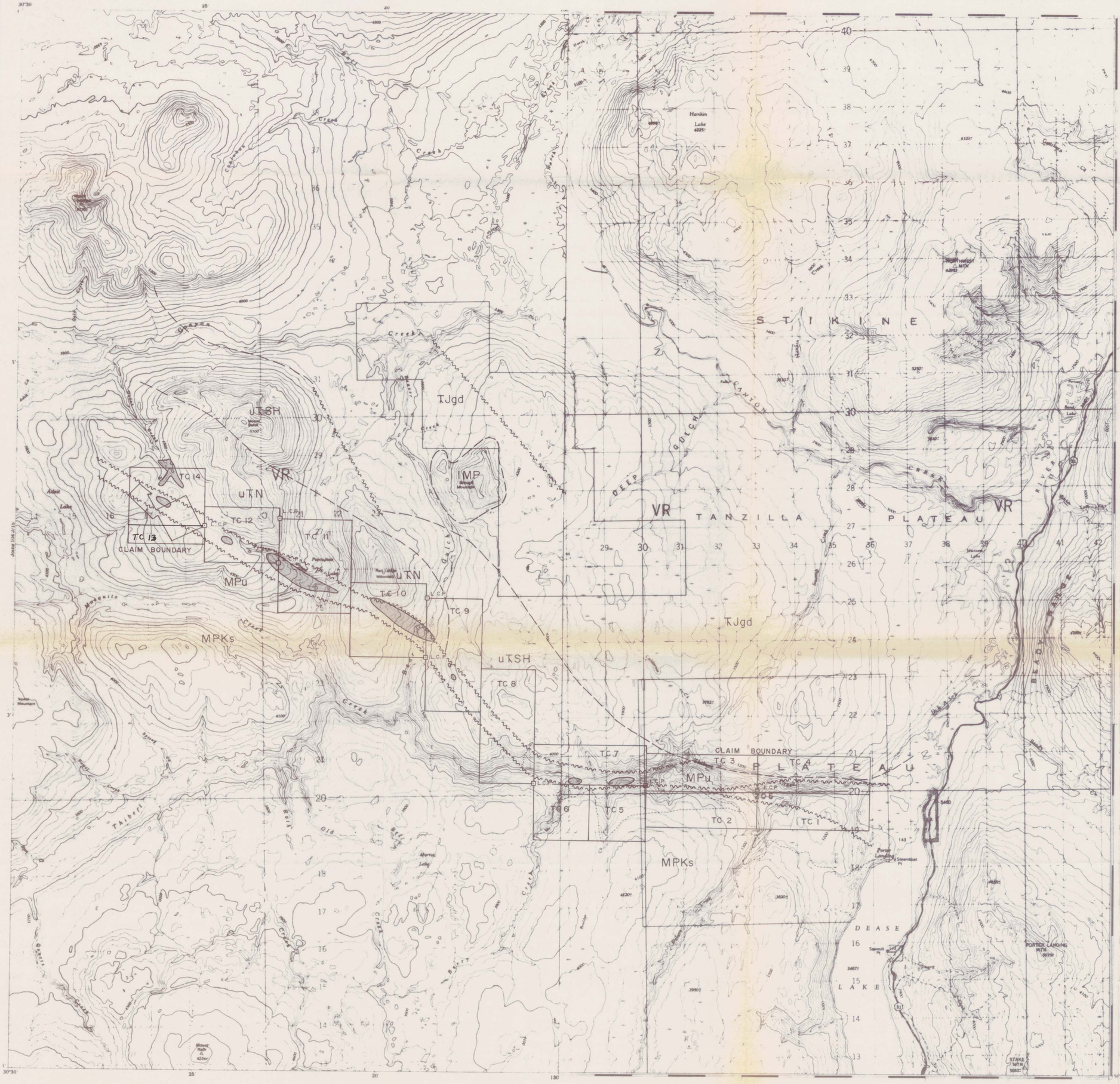
2. I have been employed as a Geologist by Noranda Exploration since 1972, and currently hold the position of District Geologist, Central Cordillera District.

3. I am a member of the Canadian Institute of Mining and Metallurgy.

4. I am a member of the Geological Association of Canada



Ronald G. MacArthur
District Geologist,
Central Cordillera District
NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)



LEGEND

ROCK TYPES

Q	GLACIAL DEPOSITS
IMP	MIOCENE TO PLEISTOCENE Alkaline olivine basalt; minor trachyte & rhyolite.
TJgd	LATE TRIASSIC & EARLY JURASSIC Biotite-horn blende quartz diorite, granodiorite, quartz monzonite, & diorite.
uTSH	SHONEKTAW FORMATION (Upper Triassic) Augite andesite & basalt.
uTN	NAZCHA FORMATION (Upper Triassic) Volcanic sandstone argillic tuff conglomerate.
MPKs	KEDAHDA FORMATION (Mississippian to Permian) Cherty argillite, argillaceous chert, locally graphitic, metamorphosed equivalents, chert & argillite very minor volcanic rocks & metamorphosed equivalents.
MPu / MPuso	ULTRAMAFIC (Mississippian to Permian) Peridotite, serpentinite; Ultramafic altered to quartz-carbonate-mariposite.
lm	LIMESTONE

SYMBOLS

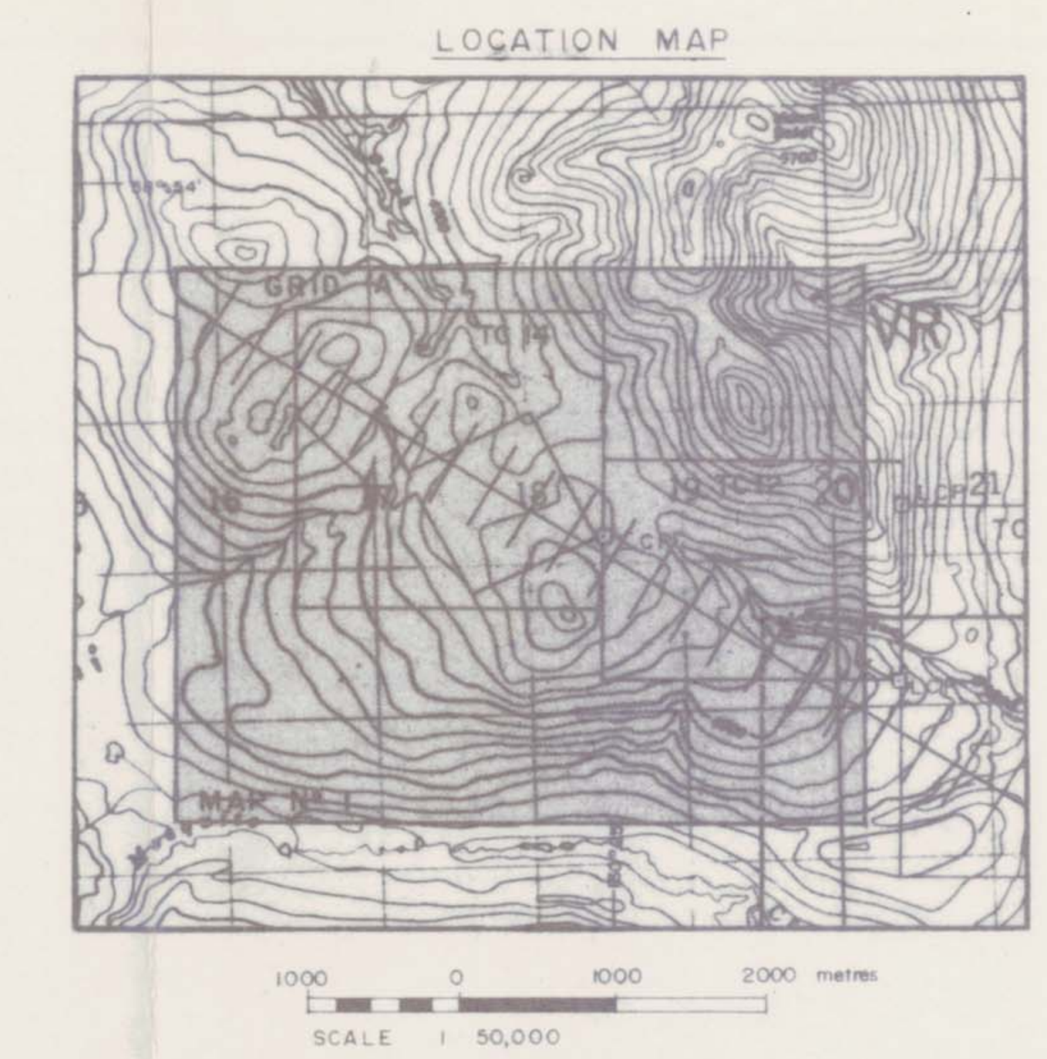
- Geologic contact
- Fault
- Outcrop
- 80° Strike and dip of bedding
- 70° Strike and dip of foliation
- Trails
- L.C.P. Claim post and claim boundary

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,309

1000 0 1000 2000 metres
SCALE 1:50,000

REVISED	THIBERT CREEK
	GEOLOGY
PROJ. No. N.T.S 104 J/16	SURVEY BY: D. GORC DATE: Oct., 1984
DWG. No. FIG. 3	DRAWN BY: S.K.B. SCALE: 1:50,000
	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.



LEGEND

ROCK TYPES

Q	GLACIAL DEPOSITS
IMP	MIOCENE TO PLEISTOCENE Alkaline olivine basalt; minor trachyte & rhyolite.
TJgd	LATE TRIASSIC & EARLY JURASSIC Biotite-horn blende quartz diorite, granodiorite, quartz monzonite, & diorite.
uTSH	SHONEKTAW FORMATION (Upper Triassic) Augite andesite & basalt.
uTN	NAZCHA FORMATION (Upper Triassic) Volcanic sandstone argillic tuff conglomerate.
MPKs	KEDAHDA FORMATION (Mississippian to Permian) Cherty argillite, argillaceous chert, locally graphitic, metamorphosed equivalents, chert & argillite very minor volcanic rocks & metamorphosed equivalents.
MPu / MPu(al)	ULTRAMAFIC (Mississippian to Permian) Peridotite, serpentinite; Ultramafic altered to quartz-carbonate-mariposite.
lm	LIMESTONE

SYMBOLS

Geologic contact
Fault
Outcrop
Strike and dip of bedding
Strike and dip of foliation
Trails
Claim post and claim boundary
1983 Rock sample location
1983 Soil sample location
1983 Silt sample location
1984 Rock sample location
1984 Soil sample location (Grid)
1984 Silt sample location
Quartz sample, Float sample

1984 GEOCHEM RESULTS Au (ppb)

SAMPLE Nº	Au. (ppb)	SAMPLE Nº	Au (ppb)	SAMPLE Nº	(ppb)
61001	≤10	61039	≤10	61094	≤10
61002	"	61040	"	61095	"
61003	"	61041	"	61096	"
61004	"	61042	"	61097	"
61005	"	61043	"	61098	"
61006	"	61044	"	61099	"
61007	"	61045	"	61100	"
61008	"	61046	"	61101	"
61009	"	61047	"	61102	"
61010	"	61048	"	61103	"
61011	"	61049	"	61104	"
61012	"	61050	"	61105	"
61013	"	61051	"	61106	"
61014	"	61052	"	61107	"
61015	"	61053	"	61108	"
61016	"	61054	"	61111	"
61017	"	61055	"	61112	"
61018	"	61056	"	61113	"
61019	"	61057	"	61114	"
61020	20	61058	"	61115	"
61021	≤10	61059	"	61116	"
61022	"	61076	"	61117	"
61023	"	61077	"	61118	"
61024	"	61078	"	61119	"
61025	"	61079	"	61120	"
61026	"	61080	"	61121	"
61027	"	61081	"	61122	"
61028	"	61082	"	61123	"
61029	"	61083	"	61124	"
61030	"	61084	"	61125	"
61031	"	61085	"	054054	"
61032	"	61086	"	054055	"
61033	"	61087	"	054056	"
61034	"	61088	"	054057	"
61035	"	61089	"	054058	"
61036	"	61090	"	054059	"
61037	"	61091	"	054060	"
61038	"	61092	"	054061	"
		61093	"	054062	"
				054063	"

1983 GEOCHEM RESULTS

SAMPLE NO.	Cu (ppm)	Zn (ppm)	Pb (ppm)	Ag (ppm)	Mo (ppm)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)
ROCKS									
27532				0.2				140	10
27537				0.2				<4	10
27814				0.2				<4	10
27815				0.2				64	10
27816				0.2				<4	10
27817				0.2				<4	10
29898				0.2				44	10
29899				0.2				36	10
29900				0.2				8	10
29926				0.2				350	10
SOILS									
26813	34	120	2	0.2	<2	800	56	140	10
26814	32	90	2	0.2	<2	1400	100	400	10
26815	24	70	2	0.2	<2	1200	90	260	10
26816	28	62	2	0.2	<2	760	58	180	10
26817	48	82	2	0.2	<2	1100	110	600	10
26818	28	62	2	0.2	<2	520	44	220	10
26819	54	80	2	0.2	<2	410	54	260	10
26820	26	68	2	0.2	<2	360	36	180	10
26821	28	72	2	0.2	<2	940	80	200	30
26822	56	66	2	0.2	<2	880	78	420	20
26823	140	74	2	0.2	<2	340	66	360	20
26824	68	110	2	0.2	<2	1400	140	740	10
26825	38	84	2	0.2	<2	640	62	260	10
27526	36	84	2	0.2	<2	860	76	240	10
27527	34	94	2	0.2	<2	1200	88	360	10
27528	28	120	2	0.2	<2	1100	92	340	10
27529	24	150	2	0.2	<2	560	52	200	10
27530	24	98	2	0.2	<2	480	38	320	10
27531	32	84	2	0.2	<2	800	60	340	10
27533	28	110	2	0.2	<2	1100	98	600	10
27534	48	86	2	0.2	<2	1400	120	820	10
27535	50	96	2	0.4	<2	1000	84	720	10
27536	56	260	18	0.8	130	96	18	150	10
27538	36	120	22	1.0	20	90	20	36	10
27539	40	150	8	0.6	6	56	20	30	10
27540	62	140	4	0.6	4	70	24	26	10
27541	56	120	4	0.4	4	46	20	22	10
27542	44	82	4	0.2	4	44	20	28	10
27543	250	120	8	0.4	2	70	30	16	50
27544	54	150	2	0.4	4	58	28	52	10
27545	64	210	10	0.6	2	44	20	58	10
27546	28	150	12	0.4	<2	28	18	16	10
27547	64	88	14	0.2	6	38	24	56	10
27548	190	160	12	1.4	2	36	24	16	10
27549	34	90	8	0.4	2	28	18	24	10
27550	64	120	8	0.6	2	40	16	24	10
29927	18	68	2	0.2	<2	24	14	<2	10
29928	40	70	2	0.2	<2	50	34	4	10
29929	48	78	2	0.2	<2	52	24	<2	10
29930	36	96	2	0.4	<2	36	22	<2	10
29931	34	80	2	0.2	<2	52	20	2	10
29932	42	80	2	0.2	<2	46	22	2	10
29933	34	76	2	0.2	<2	44	20	<2	10
29934	38	74	2	0.2	<2	52	20	2	10
29935	32	78	2	0.4	<2	26	20	<2	10
29936	26	130	2	0.2	<2	720	58	170	10
29937	34	110	2	0.2	<2	900	68	220	10
29938	26	74	2	0.2	<2	1000	74	260	10
29939	34	110	2	0.2	<2	1100	76	200	10
29940	32	80	2	0.2	<2	520	44	190	10
29941	50	130	2	0.2	2	340	36	220	10
29942	38	100	2	0.6	<2	120	20	64	10

SAMPLE NO.	Cu (ppm)	Zn (ppm)	Pb (ppm)	Ag (ppm)	Mo (ppm)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)
SOILS									
29943	190	160	8	0.6	2	52	14	52	10
29944	96	200	4	2.6	4	48	20	34	10
29945	150	220	12	0.8	10	56	20	56	10
29946	98	140	8	0.2	8	46	20	24	10
29947	140	220	8	0.6	10	78	22	62	10
29948	64	98	8	0.4	6	46	20	24	10
29949	68	130	6	0.4	6	44	22	28	10
29950	58	140	4	0.4	4	140	26	50	10
29951	120	160	6	0.4	10	300	40	200	10
29952	82	160	6	0.6	10	120	26	82	10
29953	140	190	10	1.0	14	140	32	64	10
29954	26	120	10	0.2	<2	30	20	12	10
29955	40	120	8	0.4	2	30	36	<2	10
29956	56	90	8	0.2	<2	38	22	<2	10
29957	68	86	4	1.2	4	34	16	6	10
29958	88	170	8	0.8	6	50	18	18	10
29959	58	120	14	1.2	24	34	14	84	10
29960	130	210	14	0.2	8	66	28	34	10
29961	120	220	20	2.8	34	74	20	70	10
29962	76	280	12	2.0	14	90	24	26	10
29963	42	150	10	1.2	4	38	22	6	10
29964	52	110	4	0.6	4	48	18	24	10
29965	100	210	8	0.6	18	84	38	48	10
29966	52	150	6	0.8	6	60	30	22	10
29967	42	130	4	0.4	4	48	22	6	10
29968	58	150	4	1.0	4	110	24	58	10
29969	190	410	16	1.8	10	150	30	74	10
29970	52	160	4	0.2	<2	400	42	52	10
29971	44	96	4	0.2	2	110	20	34	10
29972	28	78	2	0.2	<2	270	28	62	10
29973	22	66	2	0.2	<2	230	22	30	10
29974	22	72	2	0.2	<2	190	20	48	10
29975	32	60	2	0.2	<2	110	18	22	10
35301	66	160	8	0.4	6	46	18	32	10
35302	38	100	6	0.2	2	32	18	18	10
35303	110	210	8	2.2	8	410	38	380	10
35304	66	160	2	0.8	4	180	28	500	10
35305	46	140	2	0.4	<2	900	36	980	10
35306	58	90	2	0.2	<2	260	38	220	10
35307	24	110	2	0.2	<2	180	28	84	10
35308	34	98	2	0.2	<2	480	46	260	10
38476	34	92	2	0.2	<2	560	52	300	10
38477	34	130	2	0.2	<2	740	70	440	10
38478	36	88	2	0.2	<2	780	62	420	10
38479	36	78	2	0.2	<2	960	72	380	10
38480	34	120	2	0.2	<2	1100	88	420	10
38481	36	98	2	0.2	<2	1800	98	1400	10
38482	54	120	2	0.2	<2	600	50	640	10
53843	40	180	2	0.2	2	550	46	1100	10
53844	32	150	2	0.2	2	280	36	380	10
53845	30	120	2	0.2	2	800	52	460	10
53846	50	190	6	0.4	10	66	20	74	10

MAP SHEET INDEX

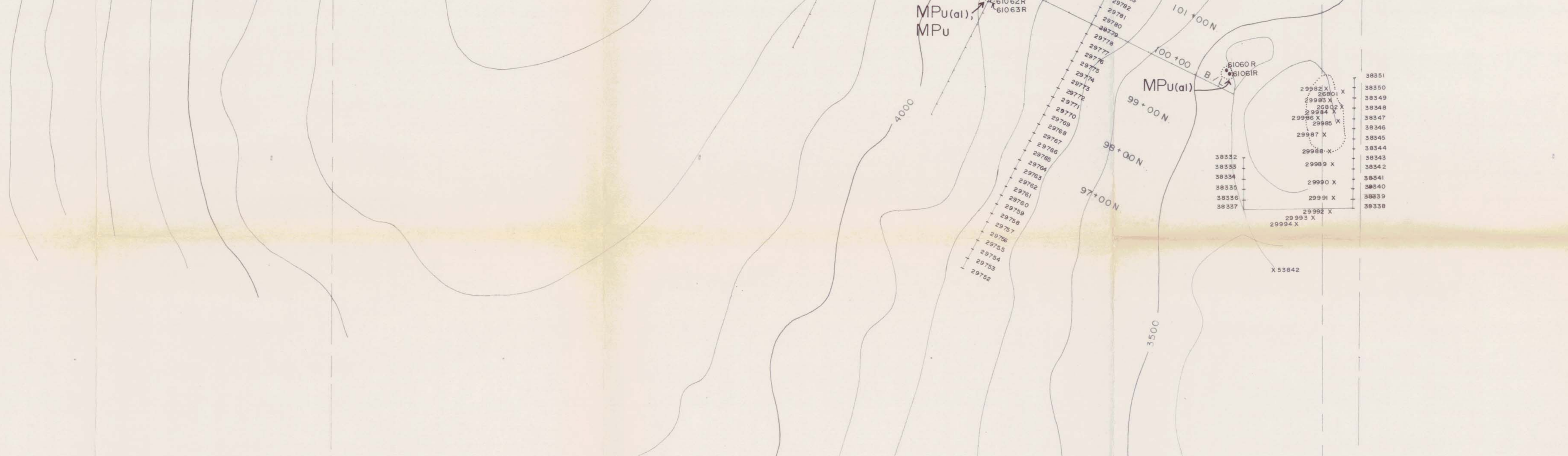
1 2 3 4 5 6

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,309

0 100 200 300 400 500 m
SCALE 1: 5,000

REVISED	THIBERT CREEK
	GEOLOGY MAP ROCK AND SILT GEOCHEMISTRY 1983 SOIL GEOCHEMISTRY
PROJ. No. 62	SURVEY BY: D. GORC — DATE: Oct., 1984
N.T.S. 104 J/16	DRAWN BY: S.K.B. — SCALE: 1:5000
DWG. No. Fig. 4 SHEET 1	NORANDA EXPLORATION OFFICE: PRINCE GEORGE, B.C.



1984 GEOCHEM RESULTS Au.(ppb.)

SAMPLE Nº	Au. (ppb)	SAMPLE Nº	Au. (ppb)
61060	≤10	054090	≤10
61061	"	054091	"
61062	"	054092	"
61063	"	054093	"
61064	"	054094	"
61065	"	054095	"
61066	"	054096	"
054051	"	054097	"
054052	"	054098	"
054053	"	054099	"
054054	"	054100	"
054055	"	054101	50
054056	"	054102	30
054057	"	054103	70
054058	"	054104	20
054064	"	054105	20
054065	"	054106	≤10
054066	"	054107	"
054067	"	054108	"
054068	"	054109	30
054069	"	054110	≤10
054070	"	054111	"
054071	"	054112	50
054072	"	054113	≤10
054073	"	054114	"
054074	"	054115	"
054075	"	054116	"
054076	"	054117	"
054078	"	054118	40
054079	"		
054080	"		
054081	"		
054082	"		
054083	"		
054084	"		
054085	"		
054086	"		
054087	"		
054088	"		
054089	"		

1983 GEOCHEM RESULTS

SAMPLE No.	Cu (ppm)	Zn (ppm)	Pb (ppm)	Ag (ppm)	Mo (ppm)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)
SILTS									
53842	34	80	2	0.2	<2	200	24	2	130
ROCKS									
26801				0.2				<4	10
26802				0.2				<4	10
29982				0.2				28	10
29983				0.2				<4	10
29984				0.2				<4	10
29985				0.2				<4	10
29986				0.2				<4	10
29987				0.2				<4	10
29988				0.2				<4	10
29989				0.2				80	10
29990				0.2				160	10
29991				0.2				<4	10
29992				0.2				<4	10
29993				0.2				<4	10
29994				0.2				<4	10
SOILS									
29752	54	140	2	1.2	8	40	16	6	10
29753	60	100	2	2.4	4	36	10	<2	10
29754	50	160	2	0.8	6	38	14	4	10
29755	86	160	8	2.2	14	48	14	10	10
29756	78	180	6	1.0	8	50	16	8	10
29757	84	200	2	1.6	8	44	18	10	10
29758	86	180	2	1.6	8	44	12	4	10
29759	86	190	2	0.6	10	44	16	6	10
29760	72	150	2	1.2	8	42	14	6	10
29761	52	96	2	0.4	<2	44	14	<2	10
29762	32	76	2	0.2	<2	28	18	<2	10
29763	42	130	2	0.6	<2	34	20	<2	10
29764	18	72	2	0.6	<2	22	12	<2	10
29765	24	120	2	0.6	<2	28	14	<2	10
29766	58	76	2	3.4	4	150	16	<2	10
29767	76	40	2	3.8	2	72	10	<2	10
29768	50	90	2	1.6	<2	100	12	<2	10
29769	20	120	2	1.0	<2	28	14	<2	10
29770	26	72	2	0.8	<2	30	14	2	10
29771	18	68	2	0.4	<2	26	12	<2	10
29772	36	74	4	0.2	<2	32	12	4	10
29773	54	120	6	0.4	<2	56	18	<2	10
29774	68	140	6	0.4	2	100	24	8	10
29775	150	94	6	4.8	2	190	30	<2	10
29776	34	80	10	0.6	<2	30	14	<2	10
29777	32	86	4	0.4	<2	170	34	<2	10
29778	58	68	2	1.2	<2	370	26	<2	10
29779	58	82	2	0.6	<2	540	28	<2	10
29780	22	58	2	0.2	<2	100	20	<2	10
29781	30	54	2	0.2	<2	430	46	2	10
29782	18	56	2	0.2	<2	100	22	<2	10
29783	40	72	2	0.2	<2	680	56	<2	10
29784	60	74	2	0.4	<2	430	38	<2	10
29785	46	70	2	0.4	<2	520	44	<2	10
29786	28	60	2	0.2	<2	260	32	<2	10
29787	42	62	2	0.4	<2	520	34	<2	10
29788	20	56	2	0.2	<2	100	18	<2	10
29789	14	74	2	0.2	<2	150	30	<2	10
29790	14	72	2	0.2	<2	170	38	<2	10
29791	26	56	2	0.2	<2	270	36	<2	10
29792	18	52	2	0.2	<2	62	14	<2	10
29793	16	80	2	0.2	<2	72	16	<2	10
29794	26	68	2	0.2	<2	190	22	<2	10
29795	38	94	2	0.6	<2	450	22	2	10
29796	26	74	2	0.2	<2	200	16	<2	10
29797	30	96	2	0.2	<2	140	16	<2	10
29798	34	140	2	0.2	<2	180	20	<2	10
29799	50	54	2	0.8	<2	700	18	<2	10
29876	26	56	2	0.2	<2	580	40	<2	10
29877	16	64	2	0.2	<2	180	26	<2	10
29878	26	64	2	0.2	<2	380	28	<2	10
29879	38	160	2	0.2	<2	330	50	<2	10
29880	62	78	2	0.2	<2	640	64	20	10
29881	14	72	2	0.2	<2	150	26	<2	10
29882	16	80	2	0.2	<2	110	22	<2	10
29883	48	40	2	0.4	<2	300	18	<2	10
29884	86	26	2	0.4	<2	412	16	<2	10
29885	22	34	2	0.2	<2	120	8	<2	10
29886	46	74	2	0.4	<2	350	24	<2	10
29887	28	130	2	0.4	<2	250	34	<2	10
29888	20	98	2	0.4	<2	130	22	<2	10
29889	16	66	2	0.4	<2	200	28	<2	10
29890	18	100	2	0.2	<2	150	28	<2	10
29891	24	84	2	0.2	<2	250	34	<2	10
29892	24	130	2	0.2	<2	120	30	<2	10
29893	16	94	2	0.2	<2	120	28	<2	10
29894	16	90	2	0.2	<2	82	22	<2	10
29895	48	82	2	0.2	<2	120	38	<2	10
29896	58	70	2	0.4	<2	170	24	<2	10
29897	32	90	2	0.4	<2	280	30	2	10
38332	32	58	52	0.2	<2	58	16	<2	10
38333	36	56	2	0.2	<2	72	18	2	10
38334	140	150	6	0.4	<2	100	32	24	10
38335	54	74	2	0.2	<2	52	20	2	10
38336	36	52	2	0.2	<2	58	14	<2	10
38337	20	66	2	0.2	<2	180	28	<2	10
38338	28	66	2	0.2	<2	84	18	<2	10
38339	32	60	2	0.2	<2	110	18	<2	10
38340	38	56	2	0.2	<2	96	20	<2	10
38341	32	66	2	0.2	<2	74	18	<2	10
38342	32	56	2	0.2	<2	56	18	<2	10
38343	28	70	2	0.2	<2	60	18	<2	10
38344	36	74	2	0.2	<2	98	26	6	10
38345	30	70	2	0.4	<2	64	20	<2	10
38346	42	72	2	0.2	<2	60	18	<2	10
38347	32	76	2	0.2	<2	58	18	<2	10
38348	34	64	2	0.2	<2	80	18	<2	10
38349	36	60	2	0.4	<2	54	20	<2	10
38350	42	66	2	0.2	<2	62	20	<2	10
38351	40	62	2	0.2	<2	64	24	<2	10

SAMPLE NO.	Cu (ppm)	Zn (ppm)	Pb (ppm)	Ag (ppm)	Mo (ppm)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)
SILTS									
29751	58	94	2	0.2	2	310	22	110	10
ROCKS									
29711				0.2				180	10
29712				0.2				8	10
29713				0.2				20	10
29714				0.2				<4	280
29715				0.4				550	80
29716				0.2				72	10
29717				0.2				<4	10
29718				0.2				<4	10
29719				0.2				<4	10
29720				0.2				<4	10
29721				0.2				<4	10
29722				0.2				<4	10
29800				0.2				<4	10
29851				0.2				<4	10
29852				0.2				<4	10
29853				0.2				8	10
29854				0.2				12	10
35309				0.2				240	10
35310				0.2				200	10
35311				0.2				420	10
35312				0.4				32	NR
35313				0.4				<2	NR
35314				0.2				<4	10
35315				0.2				160	10
35316				0.4				24	280
35317				0.2				180	10
35318				0.2				370	10
35319				0.4				500	10

LEGEND

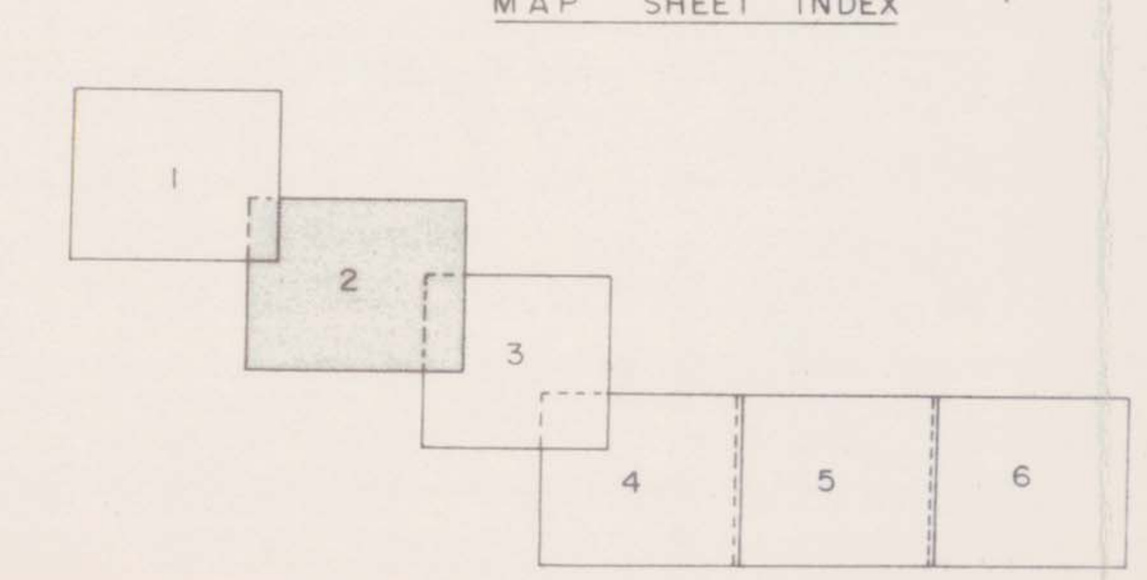
ROCK TYPES

- Q — GLACIAL DEPOSITS
- IMP — MIOCENE TO PLEISTOCENE: Alkaline olivine basalt; minor trachyte & rhyolite.
- TJgd — LATE TRIASSIC & EARLY JURASSIC: Biotite-horn blende quartz diorite, granodiorite, quartz monzonite, & diorite.
- uTSH — SHONEKTAW FORMATION (Upper Triassic): Augite andesite & basalt.
- uTN — NAZCHA FORMATION (Upper Triassic): Volcanic sandstone argillic tuff conglomerate.
- MPKs — KEDAHDA FORMATION (Mississippian to Permian): Cherty argillite, argillaceous chert, locally graphitic, metamorphosed equivalents, chert & argillite very minor volcanic rocks & metamorphosed equivalents.
- MPu / MPu(al) — ULTRAMAFIC (Mississippian to Permian): Peridotite, serpentinite; Ultramafic altered to quartz-carbonate-mariposite.
- lM — LIMESTONE

SYMBOLS

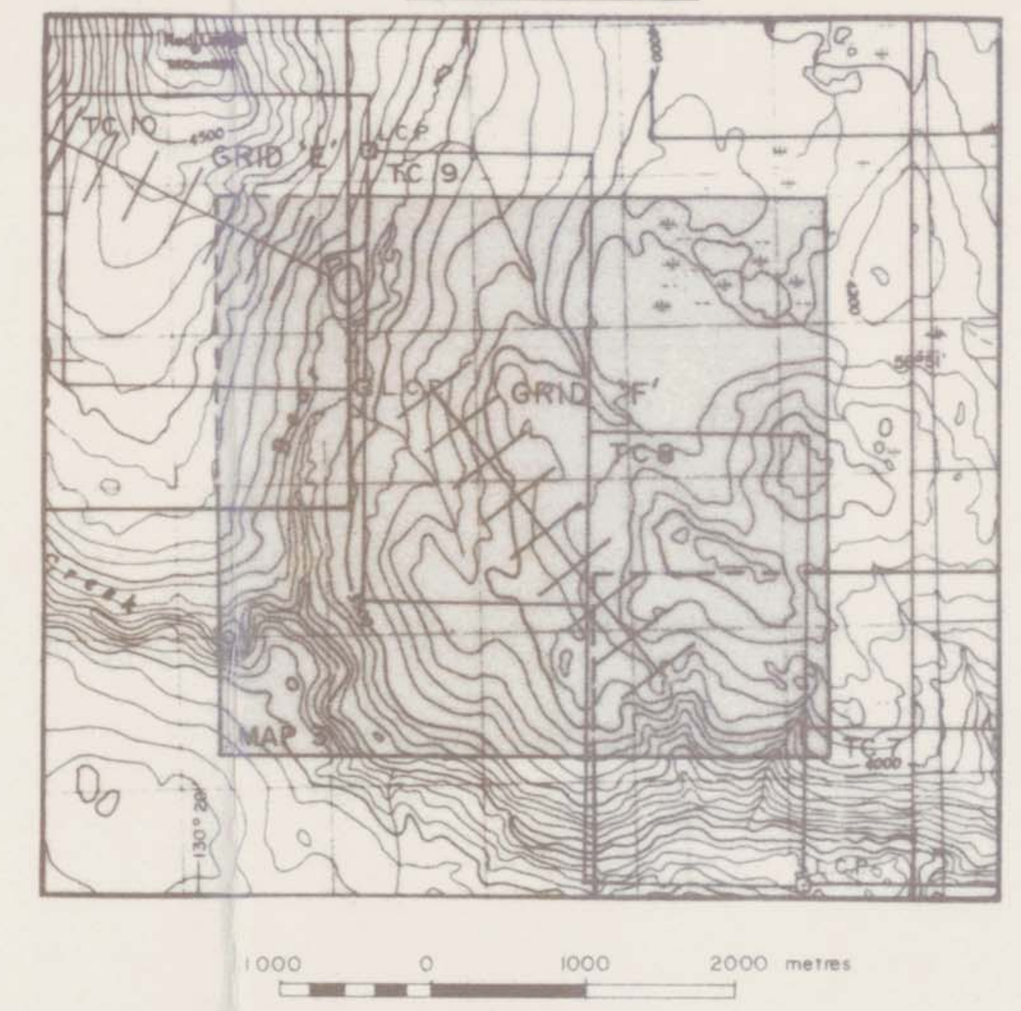
- Geologic contact
- Fault
- Outcrop
- 50° Strike and dip of bedding
- 70° Strike and dip of foliation
- Trails
- L.C.P. Claim post and claim boundary
- x 29899 1983 Rock sample location
- 35302 1983 Soil sample location
- 1983 Silt sample location
- 1984 Rock sample location
- 1984 Soil sample location (Grid)
- 1984 Silt sample location
- 61035 Q,fl Quartz sample, Float sample

MAP SHEET INDEX



0 100 200 300 400 500 m
SCALE 1:5,000

REVISED	THIBERT CREEK
	GEOLOGY MAP ROCK AND SILT GEOCHEMISTRY 1983 SOIL GEOCHEMISTRY
PROJ. No. 62	SURVEY BY: D. GORC DATE: Oct 1984
N.T.S. 104 J/16	DRAWN BY: S.K.B. SCALE: 1:5000
DWG. No. Fig. 4 SHEET 2	NORANDA EXPLORATION OFFICE: PRINCE GEORGE, B.C.



1983 GEOCHEM RESULTS

SAMPLE No.	Cu (ppm)	Zn (ppm)	Pb (ppm)	Ag (ppm)	Mo (ppm)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)
SILTS									
53842	34	80	2	0.2	<2	200	24	2	130
ROCKS									
26801				0.2				<4	10
26802				0.2				<4	10
26803				0.2				<4	10
26804				0.2				<4	10
26805				0.2				<4	10
26806				0.2				<4	10
26807				0.2				<4	10
26808				0.2				16	10
26809				0.2				8	10
26810				0.2				<4	10
26811				0.2				<4	10
26812				0.2				380	10
29982				0.2				28	10
29983				0.2				<4	10
29984				0.2				<4	10
29985				0.2				<4	10
29986				0.2				<4	10
29987				0.2				<4	10
29988				0.2				<4	10
29989				0.2				80	10
29990				0.2				160	10
29991				0.2				<4	10
29992				0.2				<4	10
29993				0.2				<4	10
29994				0.2				<4	10
SOILS									
29201	24	98	2	0.2	<2	100	28	4	10
29202	18	78	2	0.2	<2	100	30	8	10
29203	20	62	2	0.2	<2	270	38	10	10
29204	20	60	2	0.2	<2	300	44	10	10
29205	34	66	2	0.2	<2	190	24	10	10
29206	28	60	2	0.2	<2	350	38	16	10
29207	14	50	2	0.2	<2	130	20	<2	10
29208	20	58	2	0.2	<2	500	52	2	10
29209	22	70	2	0.2	<2	540	60	14	10
29210	18	48	2	0.2	<2	360	50	<2	10
29211	30	52	2	0.2	<2	700	78	8	10
29212	18	70	2	0.2	<2	210	36	<2	10
29213	20	78	2	0.2	<2	380	50	6	10
29214	16	76	2	0.2	<2	120	28	<2	10
29215	14	70	2	0.2	<2	62	20	<2	10
29216	22	76	2	0.4	<2	230	42	<2	10
29217	26	94	2	0.4	<2	430	76	4	10
29218	28	94	2	0.4	<2	400	80	10	10
29219	20	84	2	0.2	<2	350	66	8	10
29220	24	60	2	0.2	<2	240	36	2	10
29221	48	78	2	0.4	<2	310	24	<2	10
29222	38	56	2	0.2	<2	250	20	4	10
29223	28	60	2	0.2	<2	200	22	6	10
29224	34	76	2	0.2	<2	390	28	<2	10
29225	28	74	2	0.2	<2	200	26	6	10
29226	24	62	2	0.2	<2	84	22	4	10
29227	34	66	2	0.2	<2	130	20	8	10
29228	36	74	2	0.2	<2	440	42	16	10
29229	28	52	2	0.2	<2	320	26	10	10
29230	26	58	2	0.2	<2	330	28	4	10
29231	28	70	2	0.2	<2	250	30	<2	10
29232	10	30	2	0.2	<2	98	6	<2	10
29233	22	64	2	0.2	<2	300	26	4	10
29234	22	58	2	0.2	<2	190	26	18	10
29235	36	70	2	0.2	<2	580	32	2	10
29236	26	50	2	0.2	<2	270	24	8	10
29237	32	56	2	0.2	<2	290	26	8	10
29238	26	52	2	0.4	<2	290	30	4	10
29239	22	56	2	0.2	<2	170	24	<2	10
29240	24	78	2	0.4	<2	240	26	42	10
29241	20	100	2	0.2	<2	68	26	<2	10
29242	58	60	2	0.4	<2	480	28	18	10
29243	36	58	2	0.2	<2	78	18	6	10
29244	46	66	2	0.2	<2	84	22	<2	10
29245	30	58	2	0.2	<2	46	14	<2	10
29246	28	86	2	0.2	<2	70	20	2	10
29247	40	54	2	0.2	<2	58	16	<2	10
29248	26	76	2	0.2	<2	66	24	<2	10
29249	36	68	2	0.2	<2	74	20	<2	10
29250	42	80	2	0.2	<2	78	20	2	10
29752	54	140	2	1.2	8	40	16	6	10
29753	60	100	2	2.4	4	36	10	<2	10
29754	50	160	2	0.8	6	38	14	4	10
29755	86	160	8	2.2	14	48	14	10	10
29756	78	180	6	1.0	8	50	16	8	10
29757	84	200	2	1.6	8	44	18	10	10
29758	86	180	2	1.6	8	44	12	4	10
29759	86	190	2	0.6	10	44	16	6	10
29760	72	150	2	1.2	8	42	14	6	10
29761	52	96	2	0.4	<2	44	14	<2	10
29762	32	76	2	0.2	<2	28	18	<2	10
29763	42	130	2	0.6	<2	34	20	<2	10
29764	18	72	2	0.6	<2	22	12	<2	10
29765	24	120	2	0.6	<2	28	14	<2	10
29766	58	76	2	3.4	4	150	16	<2	10
29767	76	40	2	3.8	2	72	10	<2	10
29768	50	90	2	1.6	<2	100	12	<2	10
29769	20	120	2	1.0	<2	28	14	<2	10
29770	26	72	2	0.8	<2	30	14	2	10
29771	18	68	2	0.4	<2	26	12	<2	10
29772	36	74	4	0.2	<2	32	12	4	10
29773	54	120	6	0.4	<2	56	18	<2	10
29774	68	140	6	0.4	2	100	24	8	10
29775	150	94	6	4.8	2	190	30	<2	10
29776	34	80	10	0.6	<2	30	14	<2	10
29777	32	86	4	0.4	<2	170	34	<2	10
29778	58	68	2	1.2	<2	370	26	<2	10
29779	58	82	2	0.6	<2	540	28	<2	10
29780	22	58	2	0.2	<2	100	20	<2	10
29781	30	54	2	0.2	<2	430	46	2	10
29782	18	56	2	0.2	<2	100	22	<2	10
29783	40	72	2	0.2	<2	680	56	<2	10
29784	60	74	2	0.4	<2	430	38	<2	10
29785	46	70	2	0.4	<2	520	44	<2	10
29786	28	60	2	0.2	<2	260	32	<2	10
29787	42	62	2	0.4	<2	520	34	<2	10
29788	20	56	2	0.2	<2	100	18	<2	10
29789	14	74	2	0.2	<2	150	30	<2	10
29790	14	72	2	0.2	<2	170	38	<2	10
29791	26	56	2	0.2	<2	270	36	<2	10
29792	18	52	2	0.2	<2	62	14	<2	10
29793	16	80	2	0.2	<2	72	16	<2	10
29794	26	68	2	0.2	<2	190	22	<2	10
29795	38	94	2	0.6	<2	450	22	2	10
29796	26	74	2	0.2	<2	200	16	<2	10
29797	30	96	2	0.2	<2	140	16	<2	10
29798	34	140	2	0.2	<2	180	20	<2	10
29799	50	54	2	0.8	<2	700	18	<2	10
29876	26	56	2	0.2	<2	580	40	<2	10
29877	16	64	2	0.2	<2	180	26	<2	10
29878	26	64	2	0.2	<2	380	28	<2	10

1983 GEOCHEM RESULTS

SAMPLE NO.	Cu (ppm)	Zn (ppm)	Pb (ppm)	Ag (ppm)	Mo (ppm)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)
ROCKS									
29800				0.2				<4	10
29853				0.2				8	10
29854				0.2				12	10

1984 GEOCHEM RESULTS Au.(ppb.)

SAMPLE Nº	Au. (ppb)
61060	≤10
61061	"
61062	"
61063	"
61067	"
61068	"
61069	"
61070	"
61071	"
61072	"
61073	"
61074	"
61075	"
054119	"
054120	"
054152	"
054151	"

LEGEND

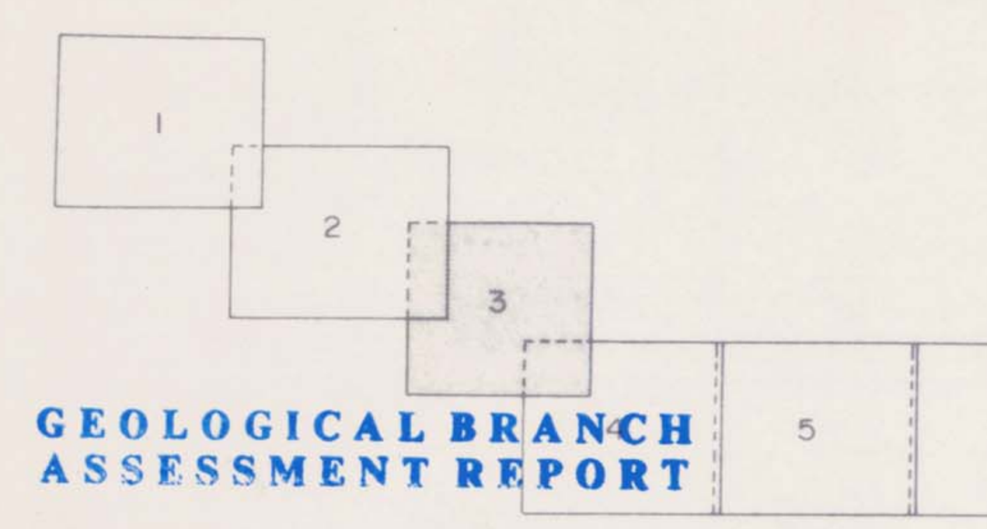
ROCK TYPES

- Q — GLACIAL DEPOSITS
- IMP — MIOCENE TO PLEISTOCENE: Alkaline olivine basalt; minor trachyte & rhyolite.
- TJgd — LATE TRIASSIC & EARLY JURASSIC: Biotite-hornblende quartz diorite, granodiorite, quartz monzonite, & diorite.
- uTSH — SHONEKTAW FORMATION (Upper Triassic): Augite andesite & basalt.
- uTN — NAZCHA FORMATION (Upper Triassic): Volcanic sandstone argillic tuff conglomerate.
- MPKs — KEDAHDA FORMATION (Mississippian to Permian): Cherty argillite, argillaceous chert, locally graphitic, metamorphosed equivalents, chert & argillite very minor volcanic rocks & metamorphosed equivalents.
- MPu / MPu(al) — ULTRAMAFIC (Mississippian to Permian): Peridotite, serpentinite; Ultramafic altered to quartz-carbonate-mariposite.
- lM — LIMESTONE

SYMBOLS

- Geologic contact
- Fault
- Outcrop
- Strike and dip of bedding
- Strike and dip of foliation
- Trails
- L.C.P. Claim post and claim boundary
- x 29899 1983 Rock sample location
- 35302 1983 Soil sample location
- 1983 Silt sample location
- 1984 Rock sample location
- 1984 Soil sample location (Grid)
- 1984 Silt sample location
- 61035 Q,fl Quartz sample, Float sample

MAP SHEET INDEX



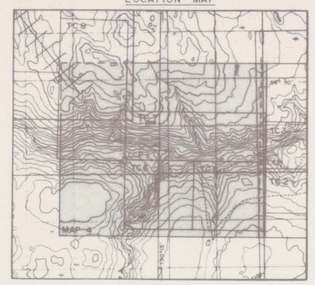
GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,309

0 100 200 300 400 500 m
SCALE 1 : 5,000

REVISED	THIBERT CREEK
	GEOLOGY MAP ROCK AND SILT GEOCHEMISTRY 1983 SOIL GEOCHEMISTRY
PROJ. No. 62	SURVEY BY D. GORC — DATE: Oct. 1984
N.T.S. 104 J/16	DRAWN BY S.K.B. — SCALE 1 : 5000
DWG. No Fig. 4 SHEET 3	NORANDA EXPLORATION OFFICE PRINCE GEORGE, B.C.

LOCATION MAP



1000 0 1000 2000 metres

SCALE 1 : 50,000

LEGEND

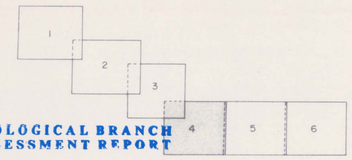
ROCK TYPES

- Q — GLACIAL DEPOSITS
- IMP — MIOCENE TO PLEISTOCENE. Alkaline olivine basalt; minor trachyte & rhyolite.
- ŁJgd — LATE TRIASSIC & EARLY JURASSIC. Biotite-horn blende quartz diorite, granodiorite, quartz monzonite, & diorite.
- uŁSH — SHONKTAW FORMATION (Upper Triassic). Augite andesite & basalt.
- uŁN — NAECHA FORMATION (Upper Triassic). Volcanic sandstone argillic tuff conglomerate.
- MPKs — KEDAHDA FORMATION (Mississippian to Permian). Cherty argillite, argillaceous chert, locally graphitic, metamorphosed equivalents, chert & argillite very minor volcanic rocks & metamorphosed equivalents.
- MPu — ULTRAMAFIC (Mississippian to Permian). Peridotite, serpentinite; Ultramafic altered to quartz-carbonate-mariposite.
- lM — LIMESTONE

SYMBOLS

- Geologic contact
- Fault
- Outcrop
- 60° Strike and dip of bedding
- 70° Strike and dip of foliation
- Trails
- LCP Claim post and claim boundary
- x29899 1983 Rock sample location
- 35302 1983 Soil sample location
- Δ 1983 Silt sample location
- ● 1984 Rock sample location
- 1984 Soil sample location (Grid)
- ▲ 1984 Silt sample location
- ● 61035 Q,R Quartz sample, Float sample

MAP SHEET INDEX



0 100 200 300 400 500 m

SCALE 1 : 5,000

1984 GEOCHEM RESULTS Au (ppb)

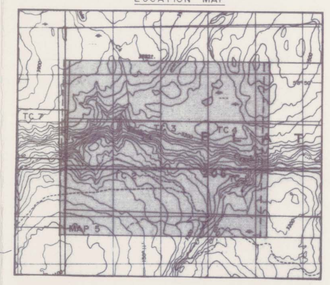
SAMPLE N°	Au (ppb)
61070	210
61071	"
61072	"
61073	"
61074	"
61075	"
05415I	"
05415Z	"

1983 GEOCHEM RESULTS

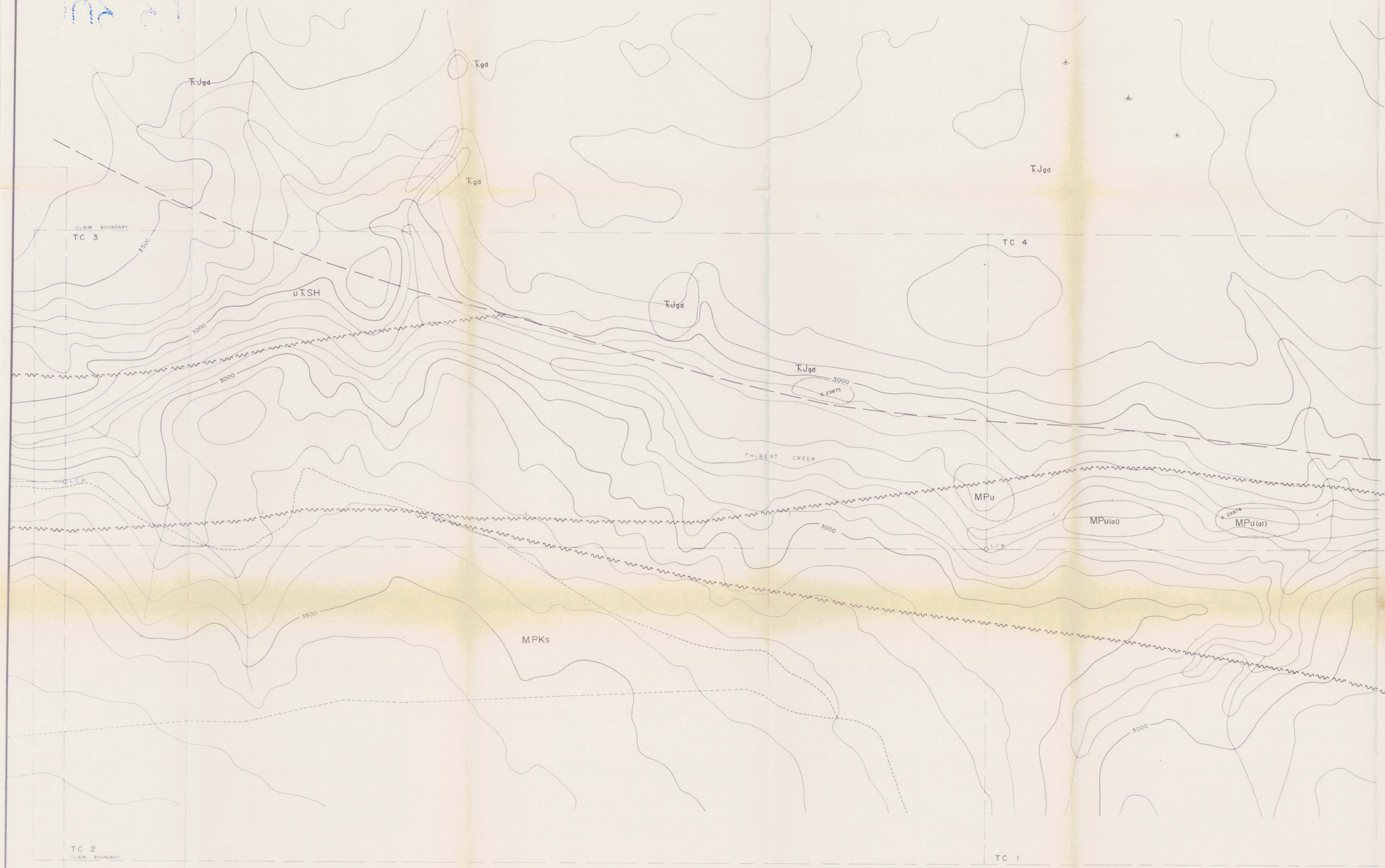
SAMPLE No.	Cu (ppm)	Zn (ppm)	Pb (ppm)	Ag (ppm)	Mo (ppm)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)
ROCKS									
32620	NR	-	-	-	-	-	-	-	-
32621	NR	-	-	-	-	-	-	-	-
32622	NR	-	-	-	-	-	-	-	-
32623	NR	-	-	-	-	-	-	-	-
32624	NR	-	-	-	-	-	-	-	-
32625	NR	-	-	-	-	-	-	-	-
x29898				0.2				45	10
x29899				0.2				4	10
x29917				0.2				15	10
SOILS									
38526	32	76	2	0.2	12	140	26	12	10
38527	16	68	2	0.2	12	100	24	12	30
38528	18	70	2	0.2	12	110	22	12	20
38529	12	60	2	0.2	12	78	20	8	10
38530	14	62	2	0.2	12	100	22	12	10
38531	36	62	2	0.2	12	72	16	6	10

REVISED	THIBERT CREEK
	GEOLOGY MAP ROCK AND SILT GEOCHEMISTRY 1983 SOIL GEOCHEMISTRY
PROJ. No. RE	SURVEY BY D. GORC DATE Oct., 1984
N.T.S. 104 J/16	DRAWN BY S.K.B. SCALE 1:5000
DWG. No. Fig. 4 SHEET 4	NORANDA EXPLORATION
	OFFICE PRINCE GEORGE, B.C.

LOCATION MAP



1000 0 1000 2000 metres
SCALE 1 50,000



LEGEND

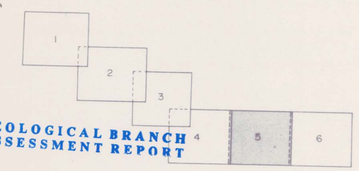
ROCK TYPES

- Q — GLACIAL DEPOSITS
- IMP — MIOCENE TO PLEISTOCENE: Alkaline olivine basalt; minor trachyte & rhyolite.
- TKJgd — LATE TRIASSIC & EARLY JURASSIC: Biotite-horn blende quartz diorite, granodiorite, quartz monzonite, & diorite.
- uTKSH — SHONEKTAW FORMATION (Upper Triassic): Augite andesite & basalt.
- uTKN — NASCHA FORMATION (Upper Triassic): Volcanic sandstone argillic tuff conglomerate.
- MPKs — KEDAHDA FORMATION (Mississippian to Permian): Cherty argillite, argillaceous chert, locally graphitic, metamorphosed equivalents, chert & argillite very minor volcanic rocks & metamorphosed equivalents.
- MPu / MPu(al) — ULTRAMAFIC (Mississippian to Permian): Peridotite, serpentinite; Ultramafic altered to quartz-carbonate-mariposite.
- lM — LIMESTONE

SYMBOLS

- Geologic contact
- Fault
- Outcrop
- 70° — Strike and dip of bedding
- 70° — Strike and dip of foliation
- Trails
- C.L.C.P. — Claim post and claim boundary
- X29899 — 1983 Rock sample location
- 35302 — 1983 Soil sample location
- Δ — 1983 Silt sample location
- • — 1984 Rock sample location
- | — 1984 Soil sample location (Grid)
- Δ — 1984 Silt sample location
- ✱ 61035 Qtz Quartz sample, Float sample

MAP SHEET INDEX



GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,309

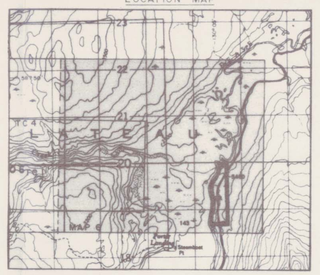
0 100 200 300 400 500 m
SCALE 1 5,000

1983 GEOCHEM RESULTS

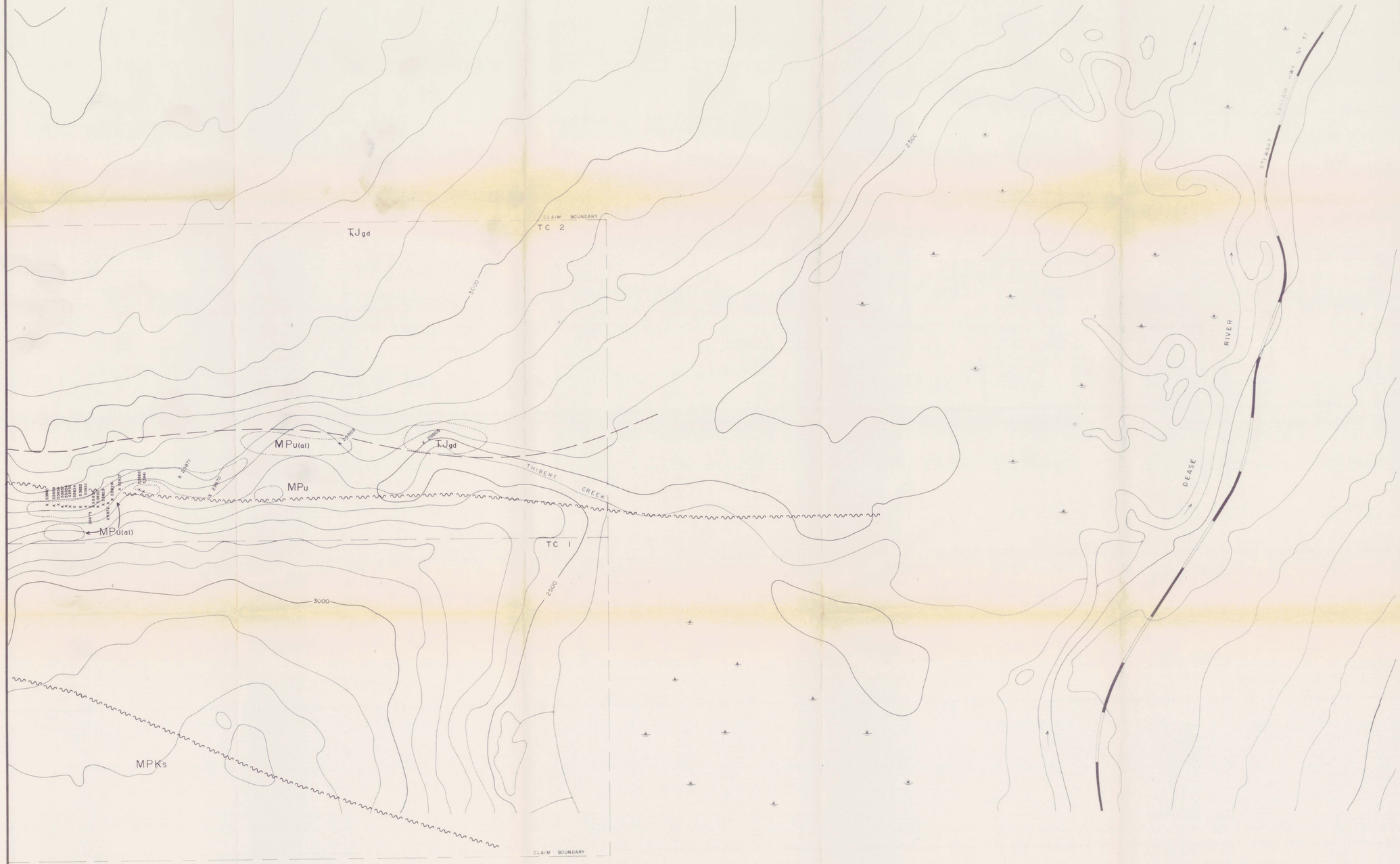
SAMPLE No.	Cu (ppm)	Zn (ppm)	Pb (ppm)	Ag (ppm)	Mo (ppm)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)
ROCKS									
29874				0.2				<8	10
29875				0.2				<8	10

REVISED	THIBERT CREEK
	GEOLOGY MAP ROCK AND SILT GEOCHEMISTRY 1983 SOIL GEOCHEMISTRY
PROJ. No. 82	SURVEY BY: D. GORG DATE: Oct., 1984
N.T.S. 104 J/16	DRAWN BY: S.K.B. SCALE: 1:5000
DWG. No. Fig. 4 SHEET 5	NORANDA EXPLORATION OFFICE: PRINCE GEORGE, B.C.

LOCATION MAP



1000 0 1000 2000 metres
SCALE 1 : 50,000



LEGEND

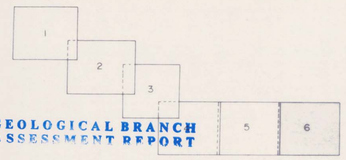
ROCK TYPES

- Q — GLACIAL DEPOSITS
- IMP — MIOCENE TO PLEISTOCENE: Alkaline olivine basalt, minor trachyte & rhyolite.
- TrJgd — LATE TRIASSIC & EARLY JURASSIC: Biotite-horn blende quartz diorite, granodiorite, quartz monzonite, & diorite.
- uTrSH — SHONEKTAW FORMATION (Upper Triassic): Augite andesite & basalt.
- uTrN — NAZCHA FORMATION (Upper Triassic): Volcanic sandstone argillic tuff conglomerate.
- MPKs — KEDAHDA FORMATION (Mississippian to Permian): Cherty argillite, argillaceous chert, locally graphitic, metamorphosed equivalents, chert & argillite very minor volcanic rocks & metamorphosed equivalents.
- MPu / MPuai — ULTRAMAFIC (Mississippian to Permian): Peridotite, serpentinite; Ultramafic altered to quartz-carbonate-mariposite.
- lM — LIMESTONE

SYMBOLS

- Geologic contact
- Fault
- Outcrop
- 70° Strike and dip of bedding
- 70° Strike and dip of foliation
- Trails
- C.P. Claim post and claim boundary
- x29899 1983 Rock sample location
- 35302 1983 Soil sample location
- Δ 1983 Silt sample location
- • 1984 Rock sample location
- 1984 Soil sample location (Grid)
- ▲ 1984 Silt sample location
- • 61035 Q,R Quartz sample, Float sample

MAP SHEET INDEX



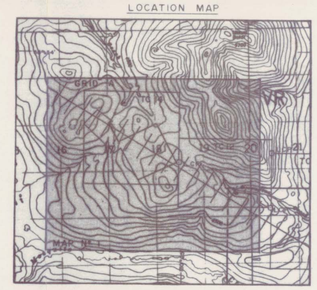
0 100 200 300 400 500 m
SCALE 1 : 5,000

1983 GEOCHEM RESULTS

SAMPLE No.	Cu (ppm)	Zn (ppm)	Pb (ppm)	Ag (ppm)	Mo (ppm)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)
ROCKS									
29868				0.2				<4	10
29867				0.2				<4	10
29877				0.2				<4	10
29876				0.2				<4	50
29874				0.2				<4	10
53826				0.4				<4	20
53827				0.4				<4	20
53828				0.2				<4	10
53829				0.2				<4	10
53831				0.2				<4	10
53832				0.2				<4	10
53833				0.2				18	10
53834				0.2				<4	10
53835				0.2				<4	10
53836				0.2				<4	10
53837				0.2				4	10
53838				0.4				<4	10
53839				0.2				<4	10
53840				0.2				<4	10
53841				0.4				<4	10

REVISED	THIBERT CREEK
	GEOLOGY MAP ROCK AND SILT GEOCHEMISTRY 1983 SOIL GEOCHEMISTRY
PROJ. No. 82	SURVEY BY D. SORC DATE Oct., 1984
N.T.S. 104 J/16	DRAWN BY S.K.B. SCALE 1:5000
DWG. No. Fig. 4 SHEET 6	NORANDA EXPLORATION OFFICE PRINCE GEORGE, B.C.

LOCATION MAP



1000 0 1000 2000 metres
SCALE 1 50,000

L 88+00E
L 91+00E
L 94+00E
L 97+00E
L 100+00E
L 103+00E
L 106+00E
L 109+00E
L 112+00E
L 115+00E
L 118+00E
L 121+00E
L 124+00E
L 127+00E
L 130+00E
L 133+00E

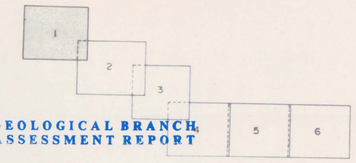
TC 14
TC 12
TC 13
L.C.P.
Thibert Creek
CLAIM BOUNDARY
CLAIM BOUNDARY
4500
5000
4500
5000
4500

105+00N
104+00N
103+00N
102+00N
101+00N
100+00N B/L
99+00N
98+00N
97+00N
96+00N
95+00N

LEGEND

0.2/2 GEOCHEM SAMPLE LOCATION
Ag / Pb (ppm)

MAP SHEET INDEX



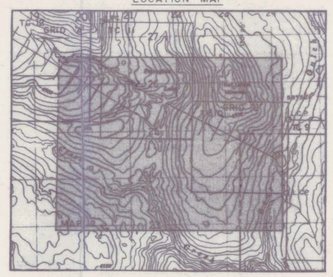
GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,309

0 100 200 300 400 500 m
SCALE 1:5,000

REVISED	THIBERT CREEK
	SOIL GEOCHEMISTRY *Ag and Pb in ppm*
PROJ. No. 62	SURVEY BY: D. GORC DATE: Oct. 1984
N.T.S. 104 J/16	DRAWN BY: S.K.B. SCALE: 1:5000
DWG. No. Fig. 5 SHEET 1	NORANDA EXPLORATION OFFICE PRINCE GEORGE, B.C.

LOCATION MAP



1000 0 1000 2000 metres
SCALE 1 50,000

LEGEND

0.2/2 GEOCHEM SAMPLE LOCATION
Ag / Pb (ppm)

L.C.P.

TC 11 CLAIM BOUNDARY

TC 10 CLAIM BOUNDARY

PORCUPINE CREEK

PORCUPINE LAKE

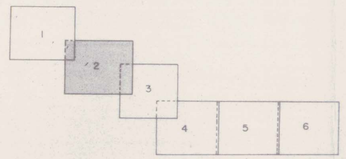
L 133+00E
L 136+00E
L 139+00E
L 142+00E
L 145+00E
L 148+00E
150+00E
L 158+00E
L 161+00E
L 164+00E
L 167+00E
L 170+00E
L 173+00E
L 176+00E

106+00N
105+00N
104+00N
103+00N
102+00N
101+00N
100+00N
99+00N
98+00N
97+00N
96+00N

4500
4000
3500

0 100 200 300 400 500 m
SCALE 1 5,000

MAP SHEET INDEX



REVISED	THIBERT CREEK
	SOIL GEOCHEMISTRY *Ag and Pb in ppm*
PROJ. No. 82	SURVEY BY: D. G.O.R.C. DATE: Oct., 1984
N.T.S. 104 J/16	DRAWN BY: S.K.B. SCALE: 1:5000
DWG. No. Fig. 5 SHEET 2	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.

L 176 • 00 E

103 • 00 N

102 • 00 N

101 • 00 N

100 • 00 B/L

99 • 00 N

98 • 00 N

97 • 00 N

4000

3500

BEAR GULCH

TC 10 CLAIM BOUNDARY

L C P

L 82 • 00 E

L 85 • 00 E

L 88 • 00 E

L 91 • 00 E

L 94 • 00 E

L 97 • 00 E

L 100 • 00 E

L 103 • 00 E

L 105 • 00 E

4000

4500

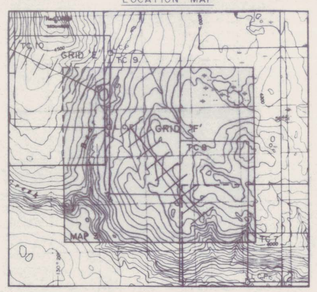
TC 8 CLAIM BOUNDARY

TC 9 CLAIM BOUNDARY

TC 7

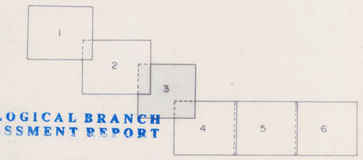
0.2/2 GEOCHEM SAMPLE LOCATION
Ag / Pb. (ppm)

LOCATION MAP



1000 0 1000 2000 metres
SCALE 1 50,000

MAP SHEET INDEX



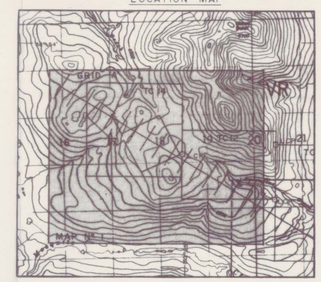
0 100 200 300 400 500 m
SCALE 1 5,000

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,309

REVISED	THIBERT CREEK
	SOIL GEOCHEMISTRY
	Ag and Pb in ppm
PROJ. No. 82	SURVEY BY D. GORC DATE Oct., 1984
N.T.S. 104 J/16	DRAWN BY S.A.B. SCALE 1:5000
DWG No. Fig. 5 SHEET 3	NORANDA EXPLORATION
	OFFICE PRINCE GEORGE, B.C.

LOCATION MAP



1000 0 1000 2000 metres
SCALE 1 50,000

LEGEND

10/8 GEOCHEM SAMPLE LOCATION
As / Au. (ppb)

L 88+00E
L 91+00E
L 94+00E
L 97+00E
L 100+00E
L 103+00E
L 106+00E
L 109+00E
L 112+00E
L 115+00E
L 118+00E
L 121+00E
L 124+00E
L 127+00E
L 130+00E
L 133+00E

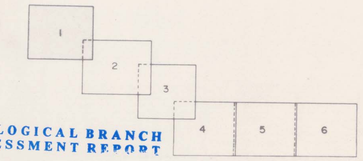
"A" ANOMALY
"B" ANOMALY
"C" ANOMALY

4500
5000

CLAIM BOUNDARY
L.C.P.

105+00N
104+00N
103+00N
102+00N
101+00N
100+00N B/L
99+00N
98+00N
97+00N
96+00N
95+00N

MAP SHEET INDEX



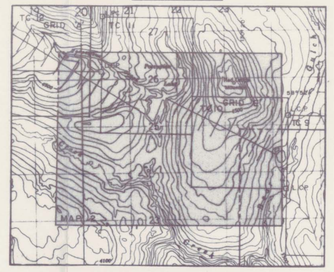
GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,309

100 200 300 400 500 m
SCALE 1 5,000

REVISED	THIBERT CREEK
	SOIL GEOCHEMISTRY *Au in ppb, As in ppm*
PROJ. No. 62	SURVEY BY: D. GORG DATE: Oct., 1984
N.T.S. 104 J/16	DRAWN BY: S.K.B. SCALE: 1:5000
DWG No. Fig. 6	NORANDA EXPLORATION
SHEET 1	OFFICE PRINCE GEORGE, B.C.

LOCATION MAP



1000 0 1000 2000 metres
SCALE 1 50,000

LEGEND

10/8 GEOCHEM SAMPLE LOCATION
As / Au (ppb)

L 135+00E
L 136+00E
L 139+00E
L 142+00E
L 145+00E
L 148+00E
L 150+00E
L 158+00E
L 161+00E
L 164+00E
L 167+00E
L 170+00E
L 173+00E
L 176+00E

YORKUPINE CREEK

ANOMALY A II

PORCUPINE LAKE

4500
4000
3500

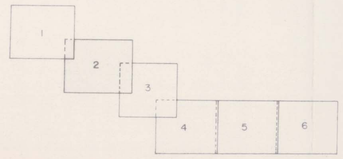
106+00N
105+00N
104+00N
103+00N
102+00N
101+00N
100+00N
99+00N
98+00N
97+00N
96+00N

TC 11 CLAIM BOUNDARY

TC 10 CLAIM BOUNDARY

L.C.P.

MAP SHEET INDEX



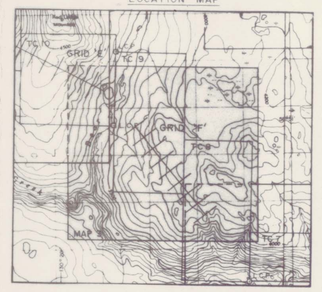
GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,309

0 100 200 300 400 500 m
SCALE 1 5,000

REVISED	THIBERT CREEK
	SOIL GEOCHEMISTRY
	Au in ppb, As in ppm
PROJ No. 82	SURVEY BY: D. GORC DATE: Oct., 1984
N.T.S. 104 J/16	DRAWN BY: S.K.B. SCALE 1 5000
DWG No. Fig. 6	NORANDA EXPLORATION
SHEET 2	OFFICE PRINCE GEORGE, B.C.

LOCATION MAP



1000 0 1000 2000 metres
SCALE 1 50,000

LEGEND

10/8 GEOCHEM SAMPLE LOCATION
As / Au (ppb)

TC 10 CLAIM BOUNDARY

TC 9 CLAIM BOUNDARY

TC 8 CLAIM BOUNDARY

TC 7

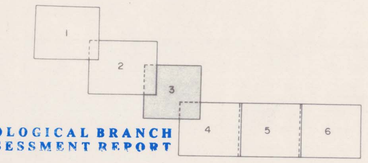
L 176+00E
L 82+00E
L 85+00E
L 88+00E
L 91+00E
L 94+00E
L 97+00E
L 100+00E
L 103+00E
L 105+00E

103+00N
102+00N
101+00N
100+00 B/L
99+00N
98+00N
97+00N

BEAR GULCH

4000
3500
4500

MAP SHEET INDEX



GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,309

0 100 200 300 400 500 m
SCALE 1 5,000

REVISED	THIBERT CREEK
	SOIL GEOCHEMISTRY *Au in ppb, As in ppm*
PROJ. No. 82	SURVEY BY: D. GORC DATE: Oct., 1984
N.T.S. 104 P/16	DRAWN BY: S.K.B. SCALE: 1:5000
DWG. No. Fig. 6 SHEET 3	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.