GEOLOGICAL AND GEOCHEMICAL REPORT

on the

KR-1, 2, 3, 4, 5, 6 and 9 (BETA GROUP)

and

KR-7, 8, 10 and 11 (DELTA GROUP)

Mineral Claims

(Klehini River Property)

Atlin Mining Division

N.T.S. 114 P/10E

Latitude 59°32'

Longitude 136°35'

Owner/Operator: Noranda Exploration Company, Limited
(No Personal Liability)

Author: Mike Savell

December, 1985

SUMMARY

Gold mineralization has been found on the Klehini River Property, and further work is required to fully determine the economic potential. The mineralization is found in quartz veins of probable mesothermal origin, hosted by a dioritic intrusion presumed to be Cretaceous. Potential exists for a number of small tonnage, steeply dipping, narrow, high grade vein deposits.

The most significant and promising mineralization is found on the KR-4 claim, where a vein has been traced for some 500 metres, assaying 0.283 opt Au over an average width of 1.03 metres. This includes a high grade shoot about 175 metres long assaying 0.814 opt Au over 0.94 metres. The location is steep and somewhat difficult to reach, however further exploration is warranted. Other situations requiring further work include a high grade (up to 3.50 opt Au over 0.8 metres), irregular vein in a shear zone on the KR-1 claim, quartz float assaying 0.62 opt Au, Au-in-talus fines anomalies, and a 5 metre wide pyritic shear zone in diorite with anomalous Au values.

A program consisting of blast trenching of the most significant showings, an accurate survey of trench locations, and grid soil sampling, magnetometer, and VLF surveys over the talus fine, float, and shear zone anomalies is recommended. This information should be sufficient to conclude whether further exploration is justified.

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CHAPTER ONE: INTRODUCTION

1-1: GENERAL

This report describes the results of a geological and geochemical survey carried out during September, 1985 on the KR-1 to 6, and 9 (Beta Group) and KR-7, 8, 10 and 11 (Delta Group) mineral claims (Klehini River Property), Atlin Mining Division, B.C. Note that a Statement of Exploration and Development was submitted for each group but only one, combined assessment report has been written. A statement of cost has been prepared for each group.

The claims were staked by Noranda to cover the presumed source area for a stream sediment gold anomaly obtained during a 1983 reconnaissance program.

The work described in this report was performed by employees of Noranda Exploration Company, Limited (see Appendix A).

1-2: LOCATION and ACCESS

The property is located on N.T.S. mapsheet no. 114 P/10E, at 59 degrees 32' latitude and 136 degrees 35' longitude. This is about 4 kilometres southwest of the Rainy Hollow area in the extreme northwest of B.C. The nearest town is Haines, Alaska, some 70 kilometres by road to the south-southwest. Haines Junction, Yukon Territory, is about 145 kilometres

to the north-northwest (Figure 1).

To date, access has been by helicopter. The centre of the property lies about 5 kilometres from an unused portion of the Haines Highway, which is a paved, all season road leading to the port of Haines, Alaska, some 73 kilometres by road. Construction of an access road would be difficult as much of the property is covered by glacial ice and is quite steep.

1-3: PHYSIOGRAPHY and VEGETATION

The property lies near the eastern edge of the rugged St. Elias Mountains. Local elevations range from about 750 metres to 2050 metres. About 30% of the property is covered by glacial ice. The highest peaks on the property are very steep and rugged and are accessible only by technical climbing methods.

Most of the property is barren of vegetation. The lower elevations are covered by typical alpine grasses, lichens, shrubs, and flowers. To the east of the property, the vegetation type abruptly changes with the decrease in elevation to a lush coastal rain forest.

1-4: HISTORY of the CLAIMS

The KR claims were acquired by staking in 1984. The relevant details are listed in Table 1.

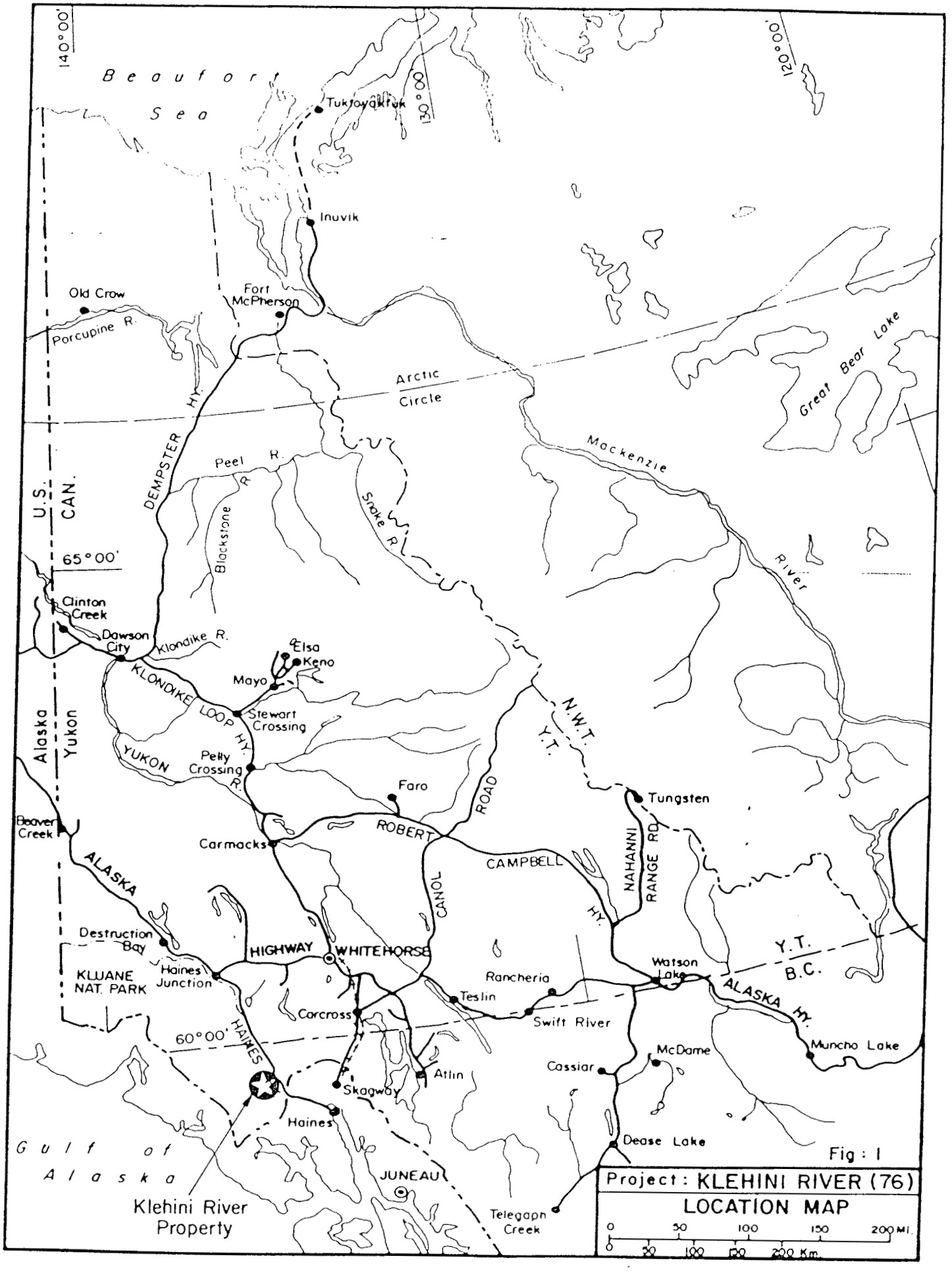

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TABLE 1 - Claim Status

CLAIM NAME	NO. UNITS	RECORD NO.	RECORD DATE	EXPIRY DATE
KR-1	8	2418	Oct. 23, 1984	Oct. 23, 1988
KR-2	6	2419	"	"
KR-3	15	2420	"	Oct. 23, 1987
KR-4	20	2421	"	Oct. 23, 1988
KR-5	4	2422	"	"
KR-6	12	2423	"	"
KR-7	8	2424	"	"
KR-8	15	2425	"	Oct. 23, 1987
KR-9	20	2426	"	"
KR-10	20	2427	"	Oct. 23, 1986
KR-11	20	2433	"	Oct. 23, 1987
SADDLE-1	16	2276	April 4, 1984	April 4, 1987
SADDLE-2	16	2277	"	"
SADDLE-3	16	2278	"	"
SADDLE-4	16	2279	"	"

All claims are owned by Noranda Exploration Company, Limited (No Personal Liability). The KR claims will be in good standing until the above expiry dates upon acceptance of this report.

1-5: PREVIOUS WORK

There is no public record of any systematic exploration having been carried out on the property prior to that undertaken by Noranda in 1983.

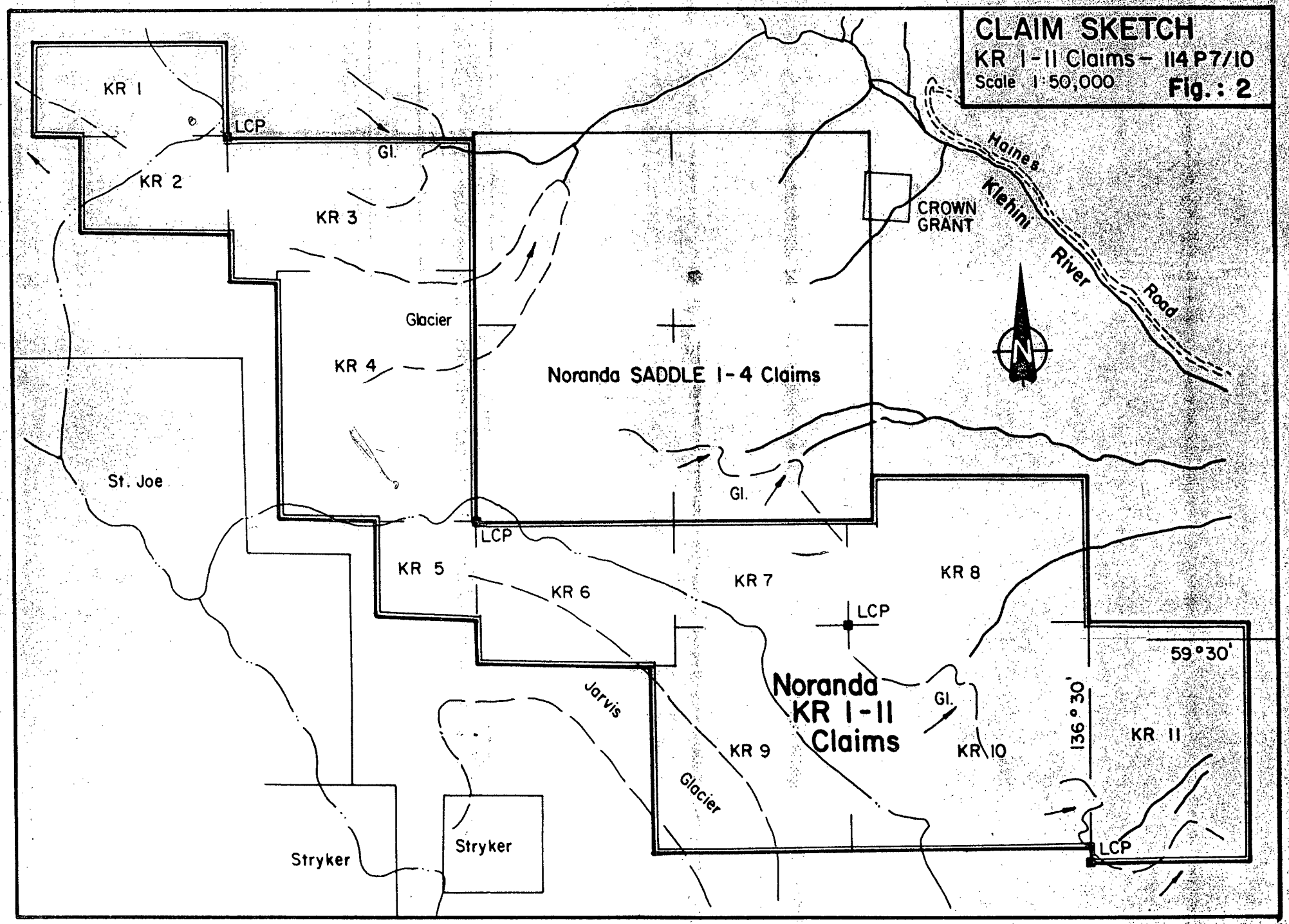
The initial reconnaissance stream sediment sampling program located two streams anomalous in Au. The first stream drains the north side of the property and flows northeasterly and had values of 15,000 ppb Au in a panned concentrate and 220 ppb Au in a silt sample. The other stream drains

the south half and flows easterly. It had values of 31,000 ppb Au in a panned concentrate and 130 ppb in a silt sample. On the basis of these results, the SADDLE 1-4 claims were staked. The KR 1-11 claims (Figure 2) were staked to secure surrounding ground in October, 1984. This report deals only with the KR claims.

The 1984 exploration program consisted of detailed prospecting, preliminary geological mapping, and rock chip, stream sediment, and soil sampling where warranted. A total of 30 mandays were spent on the property and 87 geochemical samples collected and analyzed, during the period from August 16 to August 28, 1984. This work has been reported in "Geological and Geochemical Report on the SADDLE 1, 2, 3 and 4 Mineral Claims (Klehini River Property)" by Mike Savell, submitted for assessment purposes.

1-6: 1985 WORK PROGRAM

The 1985 program on the KR claims was designed to assess initial results obtained from prospecting traverses completed west of the SADDLE claims in 1984. A total of 74 mandays were spent on geological mapping, prospecting and geochemical sampling. Mapping was done at 1:5,000 scale. A total of 141 rock samples were assayed, and 369 soil, 158 talus fines, and 20 silt samples were analyzed. Soils were collected on a compass and chain controlled, picketed grid totalling 6.5 kilometres on the KR-1 claim. The geology and sample locations were plotted on 1:5,000 scale topographic base maps which were made from existing aerial photographs by Delta Aerial Surveys of Richmond, B.C. Steep areas were visually prospected with a


CLAIM SKETCH
KR 1-11 Claims- 114 P7/10
Scale 1:50,000
Fig.: 2
KR 1
LCP
Gl.
KR 2
KR 3
Haines
Klehini
River
Road
CROWN
GRANT
Glacier
KR 4
Noranda SADDLE 1-4 Claims
N
St. Joe
Gl.
LCP
KR 5
KR 6
KR 7
KR 8
LCP
59°30'
Jarvis
Noranda
KR 1-11
Claims
Gl.
136°30'
KR 11
KR 9
KR 10
Glacier
Stryker
Stryker
LCP

helicopter. When warranted, steep exposures were sampled using technical climbing methods under the guidance of an experienced mountaineer. Accommodation was provided by a local trapper's cabin on the Haines Road rented for the program. A Hughes 500D helicopter chartered from Capital Helicopters of Whitehorse was used for transportation.

CHAPTER TWO: GEOLOGY

2-1: REGIONAL GEOLOGY

A preliminary 1:125,000 scale geology map of the 114P mapsheet is now available (G.S.C. Open File Map No. 926). The area surrounding the Haines Road was previously mapped at a scale of 1 inch to 2 miles by K. Dep Watson (Bulletin No. 25, B.C.D.M., 1948). The Haines Road roughly follows the Dalton Trail, one of the routes used by prospectors enroute to the Klondyke gold fields at the turn of the century. These prospectors located many of the Cu-Zn-Pb-Ag skarn-type mineral showings known in the Rainy Hollow-Three Guardsmen Pass area. These are described in the B.C. Mineral Inventory (numbers 7-14, 17, 19, 20, 29).

The property lies within the Alexander Terrane of the Insular Belt, between the Hubbard Fault and Denali Fault System. This consists of complexly deformed, generally low grade metamorphosed, predominantly Paleozoic rocks. On the property these consist mainly of black laminated and grey massive limestones, black shales and argillites, and dark green chloritic volcanic flows. These are capped locally by Tertiary subaerial volcanics and fluviatile sediments.

The aforementioned strata have been intruded by granodiorite of the Oligocene "Tkope River Intrusions" and diorite of probable Pre-Tertiary age. Similar rocks host the gold bearing "Gold Cord" quartz vein

approximately 10 kilometres to the southwest (B.C. Mineral Inventory No. 15).

2-2: PROPERTY GEOLOGY

Geological mapping was performed during pace and compass traverses. Outcrop and sample locations were plotted on 1:5,000 topographic base maps and air photo blow-ups. The best exposures are found on ridge crests and cirque walls. When these are inaccessible, moraines and talus slopes provide a good indication of lithologies in rugged areas.

The geological plan has been plotted on Figures 3 to 7. Note that the property has been divided into several sheets in order to keep map sizes standard. Each map contains an index showing which part of the property it covers. The Table of Formations is presented in Table 2.

The oldest rocks on the property consist of black to buff weathering, very fine-grained, thinly bedded limestones and carbonaceous argillites (Kaskawalsh Group?) which have been tentatively assigned an Early Ordovician to Devonian age by the G.S.C. (open file map #926). These rocks are found on the far southwest corners of the claim blocks and are separated from exposures of younger lithologies by glacial ice. The limestone is cut by a moderate to strongly developed fracture cleavage which results in boudinaged, elongated beds that resemble stretched clasts.

On the far northeast corners of the claim blocks lies a sequence of sedimentary and volcanic rocks which have been tentatively assigned a Devonian to Latest Triassic age (Kaskawalsh Group?). It consists of grey to

pale brown limestone and dolomite, black argillite and siltstone, and dark green, chloritic basalts. The argillites, siltstones, and basalts exhibit a fairly well defined schistosity. Close to the margins of intrusions, these rocks are recrystallized and lose their schistosity. A number of roof pendants of these rocks are found within the intrusions.

Unconformably overlying the Ordovician-Devonian sediments on the west half of the KR-1 and KR-2 claims are a package of fluviatile sediments and thin volcanic flows which closely resemble rocks of the Oligocene Amphitheatre Formation in nearby areas. It consists of a generally upward fining sequence of dark brown to black, interbedded polymictic conglomerates, sandstones, and shales, with a few thin andesitic to basaltic flows in its upper section. There is a basal cobble conglomerate with large, subrounded clasts of argillite, limestone, greenstone, and diorite derived from the surrounding basement rocks.

A number of well preserved plant fragment and leaf imprints were observed in brown sandstone beds. The sandstones and conglomerates are cemented by brown, limonitic and calcareous clay. They exhibit no schistosity, and generally dip moderately to the northeast.

The bulk of the KR claims is underlain by a dark green, fine to medium grained hornblende diorite to quartz diorite. It generally has a foliated to gneissic appearance, but is locally massive. At some locations multiple intrusive episodes have resulted in megabreccias. Generally the diorite contains from 15 to 50% hornblende which is interstitial to the feldspar. The aligned hornblende crystals define the foliation and occasionally constitute over 90% of the rock. The diorite also contains

from 5 to 30%, white to grey-green feldspar, 1 to 10% quartz, 1 to 5% magnetite, and minor apatite, pyrite, and biotite. Epidote lined fractures with narrow altered envelopes are common as are xenoliths of black, very fine-grained microdiorite(?). These make up from 5 to 40% of the volume of the intrusion. They are sub-elliptical, are usually aligned parallel to foliation and appear to have been stretched. The average size is from 10 to 30 cm long, but they can be up to 100 cm long. They commonly are finely feldspar porphyritic and contain minor muscovite. As mentioned above, the diorite intrudes the Devonian to Triassic sediments, but dioritic boulders are found in the Tertiary conglomerates. The diorite intrusion may be related to Cretaceous plutons of the Coast Range Intrusives, however the property is located west of the Denali Fault which separates the Coast Intrusive Belt from the Insular Belt.

A number of dykes cut the diorite. They are black, very fine-grained and basaltic, or dark grey-green and dacitic. Quartz filled amygdules are fairly common. The dykes are found parallel to, and cross-cutting, the foliation and are from 15 to 200 cm wide. They are especially common on the KR-1 claim.

Underlying the northeast KR-1 and most of the KR-3 claim is a pale pink to grey, medium to coarse-grained granodiorite. Contacts with the diorite and sediments are obscured by talus and moraine boulders. This intrusion is thought to be related to other similar intrusions in the area which have been dated as Oligocene by the G.S.C. (open file map #926). Dykes of pale brown, fine-grained felsite and feldspar porphyry are assumed to be related to this intrusion.

Quartz veins are found within the dioritic intrusion. They are generally white to translucent, massive, brittle, limonite stained and range from a few centimetres, to over 3.7 metres in width. They occasionally contain finely disseminated or narrow bands of pyrite with minor chalcopyrite. They are often surrounded by a 10 to 20 cm wide envelope of buff coloured, quartz-carbonate-sericite altered host rock. On the KR-1 claim, the veins are found occupying clay filled fault zones and are themselves sheared and brecciated. On the KR-1 and KR-4 claims, quartz veins are found to carry significant quantities of gold.

TABLE 2:

TABLE OF FORMATIONS

NAME	AGE	LITHOLOGIES
"Tkope River Intrusions"	Oligocene	Granodiorite, felsite, feldspar porphyry
Coast Range Intrusives(?)	Cretaceous(?)	Diorite, basaltic dykes
Amphitheatre Formation(?)	Oligocene	Conglomerate, sandstone, shale, basalt
Kaskawalsh Group(?)	Devonian-Upper Triassic(?)	Limestone, dolomite, argillite, basalt
Kaskawalsh Group(?)	Ordovician-Devonian(?)	Limestone, argillite

CHAPTER THREE: GEOCHEMISTRY

3-1: SOILS

The soil sampling survey was conducted on a closely spaced grid on the KR-1 claim. For a description of the grid preparation, sampling method, and analytical method see Appendices D and E. The data has been plotted on Figures 14 to 16 and is tabulated in Appendix F. The grid location is shown on Figure 3.

The soil development in the grid area is typical of a high, steep alpine environment, that is it shows thin, poorly developed "A" and "B" horizons. Interlayering of horizons due to soil slumping is common. The sampling medium is generally the sandy component of the rocky "C" horizon. The slope is predominantly to the south (see Figure 3). North of the grid lines, the claim is covered by glacial ice and to the east, the slope is almost entirely covered by rocky moraine and talus derived from the steep granite ridge to the north.

A short test line of soil samples was collected immediately above trench "A" and "D" where Au mineralization was found in situ (see Figure 8 - inset "A"). The samples were run for the common base and precious metals and typical "indicator" elements including Cu, Zn, Pb, Mo, Au, Ag, As, Hg, Sb and Ba. Values up to 28,000 ppb Au, 9.0 ppm Ag, 19 ppm Mo, 438 ppm Cu, and 340 ppm Hg were obtained, indicating that a marked geochemical anomaly is associated with the mineralization. However, the values dropped to

background within a few metres of the vein. No anomalous Pb, Zn, Ba, Sb or As results were obtained.

The grid baseline was oriented at 130°, which is about the average strike of the veins encountered throughout the property. The line spacing is 50 metres, and a narrow sampling interval of 10 metres was chosen as the width of anomalies was expected to be narrow due to the test line results. The summary statistics are listed in Table 3. The results for the individual elements analyzed are discussed below.

Cu: Values range from 6 to 140 ppm and average 28.0 ppm with no concentration of higher results in any one area. The highest result, 140 ppm at L 20000E, 20080N is found immediately below trench "B" (see Chapter 4).

Zn: Values range from 24 to 230 ppm, with the higher background values being concentrated in the southwest corner of the grid (lines 19550N, 19600N, and 19650). This reflects the change in the underlying lithologies from a diorite to basalts and shales which presumably have a higher Zn content. Two "spot" or single station anomalies occur at L 19950E, 19780N - 200 ppm, and at L 19950E, 20110N - 230 ppm, however there is no explanation for these results.

Pb: Values are very low, with a mean of 2.4 ppm and a range from 1 to 58. An anomalous value of 58 ppm occurs at L 19950E, 20120N and is associated with a high Zn value mentioned above. The higher background values are concentrated in the southwest part of the grid as with Zn, and the same explanation is suggested.

Ag: Except for an anomalous result of 1.4 ppm near trench "B" at L 20000E, 20080N, results are all at, or very close to, the limits of detection, 0.2 ppm.

Mo: Results are mostly at, or very close to, the detection limit of 1 ppm, except for a few values up to 8 ppm in the southwest grid corner.

As: Most values are at the detection limit of 2 ppm, and the higher values (up to 30) are again distributed in the southwest corner.

Au: Values above 40-50 ppb Au were considered anomalous. This relatively low threshold was selected since it is possible to be on the edge of a much stronger anomaly which is not apparent in spite of the close sample spacing as the width of a soil anomaly may be very narrow. A number of high values were obtained, however their distribution appears erratic and no line to line correlation is possible. These are still considered important because of the nature of the soil development and the type of mineralization itself. The highest values were trenched in a later program which is not reported here.

3-2: STREAM SEDIMENTS AND TALUS FINES

A total of 20 silt and 158 talus fines samples were collected and analyzed. Sample locations are plotted on Figures 8 to 12.* Sampling procedures and analytical results are listed in Appendices E and F.

Streams draining the steep slopes generally have very little silt content, therefore this medium has limited use on the property. Results for the limited silt sampling completed were negative. The only possibly

significant result is #73594 near the centre of the KR-6 claim (Figure 10) which contained 70 ppb Au. Prospecting in the area at the time of the geochemical sampling failed to locate any quartz veins or other mineralization.

The talus fines were collected at 25 metre intervals on contour lines along steep slopes where streams have not yet developed. Summary statistics are listed in Table 4. The most interesting result was obtained on the southeast edge of the KR-6 claim (Figure 10). Six consecutive samples (#70596 to 70602) contained anomalous Au values, ranging from 90 ppb to 250 ppb. This covers an area at least 125 metres across and is open to the southeast. There are two other anomalies on the KR-10 claim (Figure 11). Near the north edge of the claim, sample #70640 ran 140 ppb Au with a nearby sample (#70638) running 40 ppb. On the west side, two adjacent samples (#70606 and 70607) ran 80 and 50 ppb Au. All these anomalies require further geochemical surveys to pinpoint the source. No base metal anomalies were obtained in the talus fines.

*It should be noted that the surveyors' ribbon marking the talus fines sample sites was labelled with a different numbering system than that shown on the accompanying maps. The corresponding "map" and "field" numbers are listed in Appendix I.

TABLE 3

SUMMARY STATISTICS

GRID SOILS (in ppm except Au in ppb)

	Cu	Zn	Pb	Ag	Mo	As	Au
Number of Analyses	366	366	366	366	366	366	363
Lowest Value	6	24	1	0.2	1	1	10
Highest Value	140	230	58	1.4	8	30	2400
Mean (Log)	26.1	81.9	1.3	0.20	1.2	2.6	11.9
Stand. Dev. (Log)	0.166	0.156	0.335	0.052	0.162	0.272	0.257
Mean (Arith)	28.0	87.7	2.4	0.20	1.3	3.4	22.4
Stand. Dev. (Arith)	11.37	34.88	5.55	0.065	0.82	3.72	128.70

TABLE 4

SUMMARY STATISTICS

TALUS FINES (in ppm except Au in ppb)

	Cu	Zn	Pb	Ag	Mo	As	Au
Number of Analyses	156	156	156	156	156	156	156
Lowest Value	4	56	1	0.2	1	1	10
Highest Value	110	180	18	1.0	6	30	250
Mean (Log)	48.3	89.9	2.1	0.20	1.0	2.2	12.3
Stand. Dev. (Log)	0.173	0.072	0.282	0.068	0.067	0.388	0.300
Mean (Arith)	51.8	91.1	2.6	0.21	1.0	3.6	20.1
Stand. Dev. (Arith)	18.83	15.66	2.11	0.071	0.41	4.59	39.15

CHAPTER FOUR: MINERALIZATION

A total of 141 rock samples were collected and assayed for Au and Ag, most were also analyzed for Cu. All vein material and unusually altered or sulphide rich rock was sampled. Sample location and results are shown on Figures 8 to 12. Sample descriptions and assay certificates are listed in Appendices G and H.

Figure 8 (sheet 2) covers the KR-1,2, and 3 claims at the northwest of the property. Mineralization was found in a number of hand trenches or pits which were dug to locate the source of float found in 1984 and similar material discovered in the 1985 survey (inset A, Figure 8). The float consists of limonite stained, friable quartz and assayed 0.797 opt Au (#R72126 - see Figure 13). Similar material was found in all the pits. It consists of narrow, branching, poddy veins of highly sheared, friable, brecciated, hematite and limonite stained quartz in a sheared and clay altered diorite. The veins contain very minor disseminated pyrite, chalcopyrite, malachite, azurite and a black, manganiferous stain on fractures. They appear to occupy fault zones. The clay alteration appears to be of a tectonic derivation. The sheared and brecciated nature of the vein indicates there has been post vein movement on the fault.

The average vein thickness is about 0.45 metres, and Au assays range from 0.176 to 3.50 opt in chip samples. Au to Ag ratios range from 0.95 to 2.8. Altered and sheared wall rocks assay up to 0.035 opt Au over

0.4 metres (#R70172) immediately adjacent to the veins. The elevations of the outcrops range from 1,520 to 1,540 metres. Trench "A" and "B" are believed to be on the same structure having an apparent strike of about 135° and dipping about 50° to the north. Trench "C" and "D" are not on the same vein but may occupy the same shear zone. These veins also dip to the north. Since they are narrow, sheared and brecciated, the veins would be expected to have poor recoveries in core drilling.

The only other significant mineralization found in the area outlined on Figure 8 is about 150 metres east of the KR-1 grid where chips from a few scattered quartz boulders over a 2 x 5 metre area in a moraine assayed 0.62 opt Au and 0.30 opt Ag (#R73663). Locating the source may be difficult as the area is almost entirely covered with moraine boulders.

Figure 9 covers primarily the SADDLE claims. Some detailed sampling of quartz veins found in the 1984 survey was conducted this year. On the SADDLE-3 claim, a vein is exposed intermittently along strike about 900 metres through a vertical elevation from 1,220 to 1,690 metres. This vein is competent, branching, with variable steep dips and cuts diorite at low elevations and hornfels at higher elevations. It contains up to 30% coarse pyrite in irregular patches confined mainly to the centre of the vein and minor siderite or ankerite. The best result from 13 samples ran 0.044 opt Au over 0.6 metres (#R73641). On the SADDLE-4 claim, a similar vein is exposed for about 50 metres horizontally and 30 metres vertically in a hornfels. Three samples produced no elevated Au results.

Figure 10 (sheet 4) covers the KR-4, 5, and 6 claims and several showings have been located here. The KR-4 claim is cut by a northwest

trending, steep sided ridge. The terrain is such that technical climbing gear and personnel were required to sample parts of the veins. At the southeast end of this ridge, a quartz vein is exposed for about 100 metres horizontally from 1,680 to 1,740 metres in elevation. It consists of white, competent quartz with hematite-limonite fracture coatings in a very weakly altered diorite. No sulphides were observed. The vein ranges from 0.2 to 1.0 metres thick where exposed. The best results from 12 samples were 0.65 opt Au from a grab (#R69938) and 0.25 opt Au across 0.63 metres (#R69937). The remaining results were very low to nil. Au to Ag ratios in mineralized samples range from 2.4 to 5. This vein was the site from which a grab sample assaying 0.945 opt Au was collected in 1984 (#R71921 - Figure 13).

Further northeast along the ridge, another vein is exposed for a horizontal distance of 75 metres and 10 metres vertically, being covered by talus on either side. A sample collected in 1984 assayed 0.680 opt Au across 3.0 metres of a "quartz vein network" (#R71923 - Figure 13). However, closer inspection reveals that the true thickness of the zone ranges from 0.8 to 1.0 metres, and that the 1984 sample must have been collected along a 3 metre long dip slope exposure on the ridge crest. The zone consists of thin, arcuate quartz and quartz carbonate veins up to 8 cm thick around which is developed a rusty weathered, quartz-carbonate-sericite(?) altered diorite zone which parallels the veins. The veins make up about 10% by volume of the zone. The best of three samples collected on the zone in 1985 ran 0.092 opt Au over 0.8 metres (#R41442). From this part of the ridge northwest to sample #R72137 (Figure 13), the ridge crest was capped by a thick cornice of icy snow remaining from the 1984-85 winter.

This made location and resampling of other showings located in 1984 impossible. These include quartz veins assaying 0.12 opt Au over 2 metres (#R72135) and 1.31 opt Au over 1.5 metres (#R72136), and a skarn pendant which assayed 0.24 opt Au, 0.82 opt Ag, and 3.04% Cu in a grab sample (#R72137).

Another vein was located at a lower elevation on the southwest slope of the KR-4 ridge, and may be a continuation of one of the previously sampled veins. It assayed 0.040 opt Au (#R73642).

The most promising structure sampled on the property is found on the northeast slope of the KR-4 ridge (Figure 10). It can be traced along the base of the slope for over 500 metres and disappears under glacial ice and talus at each end. A sample was collected from one end of the vein in 1984 (#72138) which assayed 0.075 opt Au over 1.5 metres (Figure 13). The weighted average of 13 chip samples collected in 1985 at irregular 25-75 metre intervals was 0.283 opt Au across an average width of 1.03 metres. Within this is a higher grade shoot approximately 175 metres long which averaged 0.814 opt Au across 0.94 metres in four chip samples. The vein is a milky white to translucent, massive, competent, quartz with minor siderite or ankerite hosted by a weakly chloritized diorite. The vein is always hematite and limonite stained on fractures. Adjacent to the vein, the diorite is more strongly altered to quartz-carbonate-sericite and is bleached a light green to rusty colour. The vein dips into the ridge (southwest) at about 60° and strikes approximately120°. Au to Ag ratios for the high grade samples range from 13.5 to 15.5.

Figure 11 (sheet 5) covers most of the KR-7, 8, 9, 10 and 11 claims. On the KR-7 claim, two steep, parallel, competent quartz veins in a diorite host were found. The first vein extends from the south edge of sheet 3 (Figure 9) to the KR-7 and 8 claim boundary (Figure 11) for about 1,200 metres over an elevation difference of 1,260 to 1,480 metres. The vein is up to 3.5 metres thick and is surrounded by a band of schistose, buff to green coloured quartz-carbonate-sericite altered diorite. It is observed to branch, anastomose, pinch out, and is locally poddy. The highest assay from 18 samples at various elevations was 0.044 opt Au from a grab sample (#R96485). The second vein is found 200 metres southwest of the above. It is exposed for a strike length of about 200 metres from an elevation of 1,400 to 1,500 metres before being covered by glacial ice. It is similar to the above vein, except that a 5-10 cm thick band of coarse pyrite and chalcopyrite is found in the centre of the structure at one exposure. Here the structure consists of two thick, parallel quartz veins totalling 3.7 metres which assayed 0.017 opt Au, 0.68 Ag, and 1.4% Cu (#R41449). This was the only significant value from 11 samples taken along this vein.

Elsewhere on this sheet, a number of float occurrences of similar vein material were sampled. Of 20 float samples analyzed, only one contained anomalous values. This was #73615 which assayed 0.015 opt Au in a grab sample from a 4.5 x 8 x 10 cm boulder.

Near the centre of the KR-11 claim, a chip sample (#69972) was taken across a 5 metre wide epidote-chlorite-sericite altered, pyritic shear zone in diorite and assayed 0.040 opt Au and 0.24 opt Ag. A sample of an 11

cm thick vein and a 80 cm thick rhyolite dyke taken within this shear was not mineralized.

Figure 12 (sheet 6) covers predominantly the KR-9 claim. Six samples of pyritic, altered dykes and sheared, altered diorite were sampled with no positive results. No quartz veins were observed. One sample of a basaltic dyke (#41348) contains minor, small, disseminated rosettes of molybdenite.

CHAPTER FIVE: CONCLUSIONS AND RECOMMENDATIONS

Gold mineralization has been found on the Klehini River Property, and further work is required to fully determine the economic potential. The mineralization is found in quartz veins hosted by a dioritic intrusion of probable Cretaceous Age. The high Au to Ag ratios, massive texture, and association with faults suggests a mesothermal origin for the veins. The potential exists for a number of small tonnage (100,000-500,000+ tons), narrow (~1.5 metres), steeply dipping, high grade (0.5-0.8 opt Au) vein deposits and possibly bulk tonnage lower grade stockwork type deposits where density of veins is sufficient.

The showings on the KR-1 claim located in the trenches were found to be narrow, irregular, and hosted in incompetent rocks, which would probably result in poor drilling conditions as was encountered on the nearby Gold Cord Property. However, the high grades found (up to 3.50 opt Au over 0.8 metres) warrant further trenching along strike to confirm the continuation of the grade and nature of the host rock.

The showings located on the crest of the steep ridge on the KR-4 claim were found to be narrow and of lower grade than original results had indicated. Previously discovered occurrences on the ridge which were not resampled this year due to ice and snow cover are considered to be too inaccessible to warrant further work.

The most significant and promising mineralization occurs along the northeast base of the steep ridge on the KR-4 claim. Here a vein, exposed

intermittently for some 500 metres, had a weighted average assay of 0.283 opt Au across an average width of 1.03 metres (from 13 chip samples), including a higher grade "shoot" about 175 metres long assaying 0.814 opt across 0.94 metres. The host rock is competent and it appears that no shearing has occurred along the plane of the vein. Further work is warranted, however the location is steep and prone to rock and snow slides, and a glacier must be crossed to gain access. Blast trenching is feasible along most of the vein, however drill set-ups would require significant site preparation and complete helicopter support, including shift changes, if feasible at all. Consideration should be given to underground exploration in place of drilling. This may be more efficient when site preparation, helicopter costs, drilling recoveries, sampling accuracy and safety are taken into account.

Other vein exposures on the property have been thoroughly sampled with negative results. Future work on known mineralized shoots may provide guides or models which could lead to exploration on hidden extensions of these veins, however at present this is unwarranted. Situations which do warrant follow-up work include the Au in talus fines anomalies on the KR-6 and KR-10 claims, Au mineralized float east of the soil grid on the KR-1 claim, and further sampling of the wide shear zone anomalous in Au on the KR-11 claim.

The closeness of the property to the Haines Road and the port of Haines, Alaska makes it all the more attractive. Although in an area of rugged terrain, short summers, and heavy snowfall, these problems are not insurmountable, especially if a deposit with a grade comparable to known

occurrences is delineated.

The following course of action is recommended in the 1986 field season:

1) blast trenching of the vein at the base of slope on KR-4, in between exposures where possible, and along strike from the high grade occurrences in the KR-1 trenches;

2) an accurate survey of the trench and exposure locations on the KR-4 claim, and selection of possible drill sites if drilling is determined to be feasible;

3) follow-up work on the talus fines anomalies, float occurrence on the KR-1 claim, and anomalous shear zone on the KR-11 claim, including grid soil sampling, magnetometer and VLF surveys;

4) the mineralogy of the veins and nature of the Au with regard to the ease of extraction should be briefly studied.

This data should be collected as soon as snow conditions permit, which may be mid-July if the snow cover is moderate. A decision should then be made on whether further exploration is justified, and whether diamond drilling or underground exploration is the most efficient method.

Respectfully submitted,

Mike Savell
Project Geologist

APPENDIX A:

PERSONNEL

Michael Savell 203-107 Main Street Whitehorse, Y.T. Y1A 2A7	Project Geologist
Gary Benvenuto 2683 Panorama Drive N. Vancouver, B.C. V7G 1V7	Geologist
Stuart MacKenzie 6211 - 150 Avenue Edmonton, Alberta T5A 1W7	Geologist
Susan Burnett Box 404 Nakusp, B.C. V0G 1R0	Cook/Field Assistant
Peter Beeney 525 Yonge Street Midland Ontario L4R 2C6	Field Assistant
Arthur Fekete 112 Parklane Whitehorse, Y.T. Y1A 3E9	Field Assistant
Jurg Hofer Mile 92, Haines Road B.C.	Mountaineering Guide

APPENDIX B

STATEMENT OF QUALIFICATIONS

I, Michael Savell of the City of Whitehorse, Yukon Territory, do hereby certify that:

1. I have been an employee of Noranda Exploration Company, Limited (No Personal Liability) since May 1980.

2. I am a graduate of Dalhousie University with a Bachelor of Science Degree in Geology.

3. I am a member of the Geological Association of Canada, the Canadian Institute of Mining and Metallurgy, the Prospector's and Developers Association, and the B.C./Yukon Chamber of Mines.

4. I performed the work contained in this report.

5. I have no direct or indirect interest in Mariner Exploration Inc. nor do I expect to receive any interest directly or indirectly in the securities of this company.

6. I consent to the use of this report by Mariner Exploration Inc. for any purposes deemed necessary.

Michael Savell
Project Geologist
Noranda Exploration Co., Ltd.
(No Personal Liability)

APPENDIX C

STATEMENT OF COSTS

(BETA and DELTA Groups)

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COSTS

PROJECT: Klehini River - KR-1,2,3,4,5,6, and 9 claims (BETA Group)
DATE: November, 1985
TYPE OF REPORT: Geology and Geochemistry

a)	Wages:		
	No. of Days	53 mandays	
	Rate per Day	99.46	
	Dates from	Sept. 9-23, 1985	
	Total Wages	53 x 99.46	$5,271.38
b)	Food and Accommodation:		
	No. of Days	53 mandays	
	Rate per Day	25.36	
	Dates from	Sept. 9-23, 1985	
	Total Cost	53 x 25.36	1,344.41
c)	Transportation:		
	No. of Days	53 mandays	
	Rate per Day	154.234	
	Dates from	Sept. 9-23, 1985	
	Total Cost	53 x 154.234	8,174.41
d)	Analysis		4,467.20
e)	Cost of Preparation of Report:		
	Author	400.00	
	Drafting	400.00	
	Typing	200.00	
			1,000.00
f)	Other:		
	Contractor (Base Map)		1,282.00
	Camp Supplies		556.10
	Shipping		341.50
		TOTAL COST	$22,437.00

UNIT COSTS - (BETA Group)

Unit Costs for Geology:

No. of Days	53 mandays	
No. of Units		
Unit costs	183.45/manday	
Total Cost	53 x 183.45	$ 9,722.64

Unit Costs for Geochem:

No. of Units	527 Samples	
Unit Costs	22.535/sample	
Total Costs	527 x 22.535	11,875.77

Unit Costs for Trenching:

No. of Days	4 days	
No. of Units		
Unit Costs	209.6475	
Total Costs	4 x 209.6475	838.59
	TOTAL COSTS	$22,437.00

DETAILS OF ANALYSES COSTS

PROJECT: Klehini River - KR-1,2,3,4,5,6, and 9 claims (BETA Group)

Geochemical:

Element	No. of Determinations	Cost per Determination	Total
Cu	520	1.50	780.00
Zn	439	.60	263.40
Pb	439	.60	263.40
Mo	439	.60	263.40
Ag	439	.60	263.40
As	439	1.40	614.60
Au	439	3.25	1,426.75
Data Entry	439	1.10	482.90
		TOTAL	$3,567.65

Assays:

Au	88	4.75	418.00
Ag	81	4.75	384.75
Data Entry	88	1.10	96.80
		TOTAL	$ 899.55
		GRAND TOTAL	$4,467.20

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COSTS

PROJECT: Klehini River - KR-7, 8, 10 and 11 claims (DELTA Group)
DATE: November, 1985
TYPE OF REPORT: Geology and Geochemistry

a)	Wages:		
	No. of Days	21 mandays	
	Rate per Day	99.46	
	Dates from	Sept. 9-23, 1985	
	Total Wages	21 x 99.46	$2,088.66
b)	Food and Accommodation:		
	No. of Days	21 mandays	
	Rate per Day	25.36	
	Dates from	Sept. 9-23, 1985	
	Total Cost	21 x 25.36	532.56
c)	Transportation:		
	No. of Days	21 mandays	
	Rate per Day	224.02	
	Dates from	Sept. 9-23, 1985	
	Total Cost	21 x 224.02	4,704.51
d)	Analysis		1,683.50
e)	Cost of Preparation of Report:		
	Author	400.00	
	Drafting	400.00	
	Typing	200.00	
			1,000.00
f)	Other:		
	Contractor (Base Map)		848.00
	Camp Supplies		400.00
	Shipping		227.66
		TOTAL COST	$11,484.89

UNIT COSTS - (DELTA Group)

Unit Costs for Geology:

No. of Days	21 mandays	
Unit costs	233.37/manday	
Total Cost	21 x 233.37	$ 4,900.69

Unit Costs for Geochem:

No. of Units	161 Samples	
Unit Costs	40.90/sample	
Total Costs	161 x 40.90	6,584.20
	TOTAL COSTS	$11,484.89

DETAILS OF ANALYSES COSTS

PROJECT: Klehini River - KR-7, 8, 10, and 11 claims (DELTA Group)

Geochemical:

Element	No. of Determinations	Cost per Determination	Total
Cu	161	1.50	241.50
Zn	108	.60	64.80
Pb	108	.60	64.80
Mo	108	.60	64.80
Ag	108	.60	64.80
As	108	1.40	151.20
Au	108	3.25	351.00
Data Entry	108	1.10	118.80
		TOTAL	$1,121.70

Assays:

Au	53	4.75	251.75
Ag	53	4.75	251.75
Data Entry	53	1.10	58.30
		TOTAL	$ 561.80
		GRAND TOTAL	$1,683.50

APPENDIX D

GRID PREPARATION

For control purposes, a grid was laid out. A compass controlled, slope corrected, chained baseline was run on a bearing of 130° for a length of 0.7 km and designated 100+00N. Grid lines totalling some 5.8 kilometres were run at 50 metre spacings at right angles northeast and southwest of the baseline. Stations were marked at 25 metre intervals with 1/2 metre high wooden pickets. Sample sites were marked at 10 metre intervals with fluorescent surveyor's ribbon.

APPENDIX E

GEOCHEMISTRY SURVEY

1. Sampling Method

A total of 369 soil samples were collected on the grid described above. The "B" soil horizon was sampled by digging a small hole with a grubhoe. Samples were placed in "Hi Wet Strength Kraft 3 1/2" by 6 1/8" Open End" paper envelopes on which the grid designation was marked. The samples are allowed to air dry and then shipped to the geochemical lab of Noranda Exploration Company, Limited at 1050 Davie St., Vancouver, B.C. where they are analyzed for Cu, Zn, Pb, Mo, Ag, As, and Au.

The 158 talus fines samples were collected where fine detritus accumulates on steep slopes inhibiting a proper soil development. The 20 silt samples were collected from small streams mainly on the KR-1 claim. Both the talus fines and silt samples are treated and analyzed in the same manner as the soil samples.

2. Analytical Procedures

The samples are first dried in a drying cabinet for a period of 24 to 48 hours. They are then screened and sifted to obtain a -80 mesh fraction.

To determine the amount of total extractable As, Ag, Cu, Zn, Pb, and Mo in each sample, the following procedure is employed:

A small amount of -80 mesh material, 0.200 grams, is digested in 2

ml of $HClO_5$ and 0.5 ml HNO_3 for approximately four hours. Following digestion, each sample is diluted to 5 ml with demineralized H_2O. A Varian Techtron Model AA-5 atomic absorption spectrophotometer is used to ascertain the content, in parts per million, of each element.

To determine the amount of total extractable Au in each sample, the following procedure is employed:

Ten grams of the -80 mesh material (or less, if 10 grams not available) is roasted at 580°C for 1.5 hours and then digested with aqua regia. Au is ascertained by diluting this solution to 200 ml with demineralized H_2O and extracting the Au with 10 ml of MIBK. An aliquot of this solution is then read on a Varian Techtron Model AA-5 atomic absorption spectrophotometer and a value in ppb is obtained.

APPENDIX F

GEOCHEMICAL RESULTS

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVEN
BURNABY, B.C. V5B 3
TEL : (604) 299 - 69

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.

PROJECT: 676 8510-005
TYPE OF ANALYSIS: GEOCHEMICAL Kitchimi (MS)

CERTIFICATE#: 85394
INVOICE#: 5610
DATE ENTERED: OCT.4.1985
FILE NAME: NOR85394
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPM Ba	PPB Au	PPB Hg	PPM Sb
S	41415	1	22	0.2	66	2		30	40	2
S	41416	1	54	0.2	84	4		1100	40	1
S	41417	1	50	0.2	94	76		1040	70	2
S	41418	3	88	1.2	82	4		11000	120	1
S	41419	1	26	0.4	62	6		290	80	1
S	41420	2	30	0.4	84	4		470	60	1
S	41421	3	28	0.4	82	14		50	40	1
S	41422	2	30	0.2	102	8		10	50	1
S	41423	4	30	0.2	146	24		10	20	1
S	41424	3	32	0.2	158	26		10	70	2
S	73665	1	14	0.2	72	2	400	10	40	1
S	73666	3	2	0.2	126	28	380	10	40	1
S	73667	3	10	0.2	128	24	500	10	60	1
S	73668	5	4	0.2	140	28	520	10	60	1
S	73669	19	438	9.0	76	10	300	28000	340	1
S	73670	17	48	2.0	72	6	260	5000	100	1
S	73671	1	30	0.2	96	4	360	440	40	1
S	73672	1	48	0.2	88	2	320	30	40	1
S	73673	1	82	0.2	94	2	260	170	20	1

8/10/85 MS WM DP

CERTIFIED BY : J. Rossbacher

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGE
BURNABY, B.C.
TEL : (604) 29

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.

PROJECT: 676 8510-005
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 85394
INVOICE#: 5610
DATE ENTERED: OCT.4,1985
FILE NAME: NOR85394
PAGE # : 1 A

PRE FIX	SAMPLE NAME	PPM As
S	41415	6
S	41416	14
S	41417	8
S	41418	10
S	41419	4
S	41420	4
S	41421	10
S	41422	12
S	41423	14
S	41424	14
S	73665	8
S	73666	8
S	73667	14
S	73668	16
S	73669	12
S	73670	16
S	73671	4
S	73672	6
S	73673	2

CERTIFIED BY : A. Rossbacher

NORANDA VANCOUVER LABORATORY

****

PROPERTY/LOCATION:KLEHENI RIVER CODE :8510-009

Project No. :Y76 Sheet: Date rec'd:SEP.27

Material :SILT & SOIL Geol.:M.S. Date compl:OCT.11

Remarks :

Values in PPM, except where noted.

T.T. No.	SAMPLE No.		Cu	Zn	Pb	Ag	Mo	As	PPB Au
2	Silt	73585	36	130	1	0.2	2	2	10
3		73586	48	150	1	0.2	2	2	10
4		73587	18	60	1	0.2	1	2	10
5		73588	20	66	1	0.2	1	2	10
6		73589	6	24	1	0.2	1	2	10
7		73590	8	32	1	0.2	1	2	10
8		73591	14	52	1	0.2	1	2	10
9		73592	8	36	1	0.2	1	2	10
10		73593	10	32	1	0.2	1	2	10
11		73594	38	62	1	0.2	1	2	70
12		73595	24	50	1	0.2	1	2	10
13		73596	32	60	1	0.2	1	2	10
14		81812	26	94	1	0.2	1	4	10
15		81813	28	90	1	0.2	1	2	20
16		81816	10	140	1	0.2	1	4	10
17		81819	50	160	1	0.2	2	10	10
18		81821	40	140	6	0.2	2	12	10
19		81822	46	150	1	0.2	2	12	10
20		81824	60	160	1	0.2	2	20	10
21	Silt	81825	36	150	1	0.2	2	2	10
22	19550E-19750N		36	130	1	0.2	1	2	10
23		19760	38	140	1	0.2	2	8	10
24		19770	36	150	1	0.2	2	10	10
25		19780	34	110	1	0.2	2	2	10
26		19790	50	150	6	0.2	4	22	10
27		19800	48	150	1	0.2	1	4	10
28		19810	52	170	1	0.2	2	12	10
29		19820	48	150	2	0.2	2	20	10
30		19830	42	140	1	0.2	1	8	10
31		19840	38	140	1	0.2	1	10	10
32		19850	38	130	1	0.2	1	4	10
33		19860	48	150	14	0.2	1	6	10
34		19870	44	180	4	0.2	4	2	10
35		19880	44	150	1	0.2	4	6	10
36		19890	46	160	4	0.2	2	18	10
37		19900	48	150	4	0.2	2	14	10
38		19910	50	150	1	0.2	2	16	10
39		19920	48	160	6	0.2	2	10	10
40		19930	48	140	1	0.2	4	8	I.S.
41		19940	48	150	6	0.2	2	4	I.S.
42		19950	48	150	1	0.2	2	10	I.S.
43		19960	46	160	1	0.2	2	8	10
44		19970	46	160	1	0.2	2	8	10
45		19980	36	180	1	0.2	2	10	10
46	19550E-19990N		26	160	1	0.2	1	6	10
47	19600E-19750N		26	80	1	0.2	4	4	10

48	19760	30	130	1	0.2	2	4	10
49	19770	44	130	1	0.2	2	10	10
50	19780	40	110	1	0.2	4	2	10
51	19790	32	84	1	0.2	2	4	10
52	19800	38	150	2	0.2	2	2	10
53	19810	46	150	1	0.2	1	4	10
54	19820	34	60	1	0.2	2	4	10
55	19830	42	140	1	0.2	4	14	10
56	19840	42	150	4	0.2	2	12	10
57	19850	42	160	1	0.2	4	6	10
58	19860	40	140	4	0.2	2	10	10
59	19870	24	160	6	0.2	2	6	10
60	19880	40	150	1	0.2	2	12	10
61	19890	46	180	4	0.2	2	18	10
62	19900	44	170	1	0.2	2	30	10
63	19910	50	170	8	0.2	4	20	10
64	19920	48	160	6	0.2	4	16	10
65	19930	48	160	4	0.2	4	14	10
66	19940	34	120	1	0.2	4	6	10
67	19950	48	170	2	0.2	2	2	10
68	19960	44	160	2	0.2	4	2	10
69	19970	44	180	6	0.2	2	2	10
70	19980	56	170	1	0.2	2	4	10
71	19990	44	140	1	0.2	2	4	10
72	19600E-20000N	46	150	1	0.2	2	2	10
73	19650E-19750N	28	100	1	0.2	2	2	10
74	19760	28	120	1	0.2	2	2	10
75	19770	26	140	1	0.2	6	2	10
76	19780	26	100	1	0.2	8	4	10
77	19790	40	190	8	0.2	4	6	10
78	19800	42	170	1	0.2	2	8	10
79	19810	18	150	20	0.2	2	2	10
80	19820	14	130	14	0.2	2	2	10
81	19830	12	120	18	0.2	1	2	10
82	19840	12	130	14	0.2	1	2	40
83	19850	16	130	16	0.2	2	4	10
84	19860	18	130	8	0.2	2	16	10
85	19870	18	140	18	0.2	2	4	10
86	19880	16	110	14	0.2	4	10	10
87	19890	14	130	24	0.2	6	4	10
88	19900	18	150	18	0.2	2	2	10
89	19910	22	110	1	0.2	1	2	10
90	19920	22	110	1	0.2	1	4	10
91	19930	26	140	1	0.2	1	22	10
92	19940	26	120	1	0.2	1	2	10
93	19950	14	70	1	0.2	1	8	10
94	19960	22	120	1	0.2	1	4	10
95	19650E-19970N	24	140	14	0.2	1	2	10
96	19700E-20000N	40	120	2	0.2	1	2	10
97	20010	24	130	12	0.2	1	14	10
98	20020	26	130	14	0.2	1	6	10
99	20030	40	76	1	0.2	1	6	10
100	CHECK NL-5	24	70	64	1.4	12	62	10
101	20040	32	80	1	0.2	1	2	10
102	20050	28	120	1	0.2	1	8	10
103	19700E-20060N	42	150	12	0.2	2	12	10
104	19750E-19750N	26	110	2	0.2	1	10	10
105	19760	20	100	1	0.2	1	6	10

106	19770	18	100	1	0.2	1	8	10
107	19780	22	100	1	0.2	1	2	10
108	19790	20	100	1	0.2	1	2	10
109	19800	20	82	1	0.2	1	2	10
110	19810	20	82	1	0.2	1	2	30
111	19820	18	80	1	0.2	1	2	100
112	19830	20	80	1	0.2	1	2	10
113	19840	22	80	1	0.2	1	2	30
114	19850	20	100	1	0.2	1	2	10
115	19860	16	80	1	0.2	1	2	10
116	19870	18	70	1	0.2	1	2	10
117	19880	22	90	1	0.2	1	2	10
118	19890	20	90	1	0.2	1	2	10
119	19900	22	100	1	0.2	1	2	10
120	19910	26	70	1	0.2	1	2	10
121	19920	22	70	1	0.2	1	2	10
122	19930	22	80	1	0.2	1	2	10
123	19940	24	90	1	0.2	1	2	10
124	19950	18	90	2	0.2	1	2	10
125	19990	28	100	1	0.2	1	2	10
126	20000	38	60	1	0.2	1	2	10
127	20010	28	80	1	0.2	1	2	10
128	20020	22	80	1	0.2	1	2	10
129	20030	52	90	1	0.2	1	4	50
130	20040	44	90	1	0.2	1	2	10
131	19750E-20050N	24	80	1	0.2	2	2	10
132	19800E-19750N	28	90	1	0.2	1	4	10
133	19760	26	90	1	0.2	1	2	10
134	19770	34	70	1	0.2	1	2	50
135	19780	38	80	1	0.2	1	2	40
136	19790	38	90	1	0.2	1	2	90
137	19800	44	90	1	0.2	1	6	60
138	19810	40	90	1	0.2	1	2	50
139	19820	36	80	1	0.2	1	2	50
140	19830	28	70	1	0.2	1	2	10
141	19840	24	72	1	0.2	1	2	10
142	19850	22	70	1	0.2	1	2	10
143	19860	26	70	1	0.2	1	2	10
144	19870	24	70	1	0.2	1	2	10
145	19880	26	70	1	0.2	1	2	10
146	19890	26	70	1	0.2	1	2	10
147	19900	32	70	1	0.2	1	2	10
148	19910	28	70	1	0.2	1	2	10
149	19920	30	70	1	0.2	1	2	10
150	CHECK NL-5	22	70	66	1.4	10	54	10
151	19930	32	52	1	0.2	1	2	10
152	19940	30	56	1	0.2	1	2	10
153	19950	34	46	1	0.2	1	2	10
154	19960	36	56	1	0.2	1	4	260
155	19970	38	56	1	0.2	1	4	10
156	19980	38	50	1	0.2	1	6	10
157	19990	28	48	1	0.2	1	2	10
158	20000	28	80	1	0.2	1	10	10
159	20010	26	66	1	0.2	1	6	10
160	20020	28	70	1	0.2	1	10	10
161	20030	24	56	1	0.2	1	2	10
162	20040	30	66	1	0.2	1	2	10
163	19800E-20050N	30	68	1	0.2	1	2	10

164	19850E-19750N	20	80	1	0.2	1	2	10
165	19760	36	96	1	0.2	1	2	10
166	19780	36	82	1	0.2	1	2	10
167	19790	36	92	1	0.2	1	8	10
168	19800	42	84	1	0.2	1	2	10
169	19810	46	72	1	0.2	1	2	10
170	19820	30	62	1	0.2	1	4	10
171	19830	26	66	1	0.2	1	2	10
172	19840	24	64	1	0.2	1	2	10
173	19850	24	76	1	0.2	1	8	10
174	19860	26	88	1	0.2	1	6	10
175	19870	22	78	1	0.2	1	4	10
176	19880	56	60	1	0.2	1	2	10
177	19890	28	80	1	0.2	1	2	10
178	19900	16	64	1	0.2	1	2	10
179	19910	30	64	1	0.2	1	2	10
180	19920	28	56	1	0.2	1	2	10
181	19930	26	56	1	0.2	1	2	10
182	19940	26	64	1	0.2	1	2	10
183	19950	28	54	1	0.2	1	2	10
184	19960	26	48	1	0.2	1	2	10
185	19970	30	54	1	0.2	1	2	10
186	19980	26	52	1	0.2	1	2	10
187	19990	28	54	1	0.2	1	2	10
188	20000	24	50	1	0.2	1	2	10
189	20010	20	46	1	0.2	1	2	10
190	19850E-20020N	22	48	1	0.2	1	2	20
2	19850E-20030N	28	54	1	0.2	1	2	30
3	20040	32	58	1	0.2	1	2	340
4	20050	24	74	1	0.2	1	2	10
5	20060	40	72	1	0.2	1	2	10
6	19850E-20070N	26	52	1	0.2	1	2	10
7	19900E-19750N	26	68	1	0.2	1	2	10
8	19760	24	70	1	0.2	1	2	10
9	19770	24	62	1	0.2	1	2	10
10	19780	26	66	1	0.2	1	2	10
11	19790	22	76	1	0.2	1	2	10
12	19800	22	68	1	0.2	1	2	10
13	19810	20	78	1	0.2	1	2	10
14	19820	34	80	1	0.2	1	2	10
15	19830	30	76	1	0.2	1	2	10
16	19840	38	76	1	0.2	1	2	10
17	19850	34	76	1	0.2	1	2	10
18	19860	32	74	1	0.2	1	2	10
19	19870	44	82	1	0.2	1	2	10
20	19880	32	80	1	0.2	1	2	10
21	19890	34	62	1	0.2	1	2	10
22	19900	32	70	1	0.2	1	2	10
23	19910	32	78	1	0.2	1	2	60
24	19920	34	72	1	0.2	1	2	10
25	19930	34	72	1	0.2	1	2	10
26	19940	24	68	1	0.2	1	2	10
27	19950	24	64	1	0.2	1	2	10
28	19960	30	72	1	0.2	1	2	10
29	19970	36	76	1	0.2	1	2	10
30	19980	30	74	1	0.2	1	2	10
31	19990	24	66	1	0.2	1	2	10
32	20000	30	74	1	0.2	1	2	10

33	20010	32	74	1	0.2	1	2	10
34	20020	36	24	1	0.2	1	2	10
35	20030	28	72	1	0.2	1	2	10
36	20040	28	66	1	0.2	1	2	10
37	20050	18	52	1	0.2	1	2	10
38	20060	24	64	1	0.2	1	2	10
39	20070	24	68	1	0.2	1	2	10
40	20080	28	68	1	0.2	1	2	10
41	20090	18	56	1	0.2	1	2	10
42	20100	18	60	1	0.2	1	2	10
43	20110	24	70	1	0.2	1	2	40
44	20120	10	66	1	0.2	1	2	10
45	20130	16	80	1	0.2	1	2	10
46	19900E-20140N	18	80	1	0.2	1	2	20
47	19950E-19750N	22	64	1	0.2	1	2	10
48	19760	20	70	1	0.2	1	2	10
49	19770	24	84	1	0.2	1	2	10
50	19780	14	200	44	0.4	1	2	20
51	19790	24	76	1	0.2	1	2	20
52	19800	26	76	1	0.2	1	2	20
53	19810	28	82	1	0.2	1	2	10
54	19820	24	80	1	0.2	1	2	10
55	19830	24	80	1	0.2	1	2	10
56	19840	22	82	1	0.2	1	2	10
57	19850	20	80	4	0.2	1	2	10
58	19860	24	82	6	0.2	1	2	200
59	19870	14	66	6	0.2	1	2	10
60	19880	20	76	1	0.2	1	2	10
61	19890	30	74	1	0.2	1	2	10
62	19900	30	80	1	0.2	1	2	10
63	19910	28	80	1	0.2	1	2	10
64	19920	20	72	1	0.2	1	2	10
65	19930	26	76	1	0.2	1	2	10
66	19940	30	80	1	0.2	1	2	10
67	19950	28	90	1	0.2	1	2	10
68	19960	28	78	1	0.2	1	2	10
69	19970	30	80	1	0.2	1	2	10
70	19980	32	74	1	0.2	1	2	10
71	19990	22	70	1	0.2	1	2	10
72	20000	24	74	1	0.2	1	2	30
73	20010	38	86	1	0.2	1	2	20
74	20020	36	76	1	0.2	1	2	10
75	20030	46	80	1	0.2	1	2	10
76	20040	26	66	1	0.2	1	2	10
77	20050	24	60	1	0.2	1	2	10
78	20060	24	66	1	0.2	1	2	10
79	20070	20	60	1	0.2	1	2	10
80	20080	28	92	1	0.2	1	2	30
81	20090	24	44	2	0.2	1	2	10
82	20100	24	36	1	0.2	1	2	10
83	20110	16	230	46	0.2	1	2	10
84	20120	12	180	58	0.2	1	2	10
85	20130	28	88	1	0.2	1	2	10
86	20140	20	80	1	0.2	1	2	30
87	20150	24	82	1	0.2	1	2	10
88	20160	24	82	1	0.2	1	2	10
89	20170	16	70	1	0.2	1	2	10
90	20180	10	54	1	0.2	1	2	10

91	20190	10	64	1	0.2	1	2	10
92	19950E-20200N	22	74	1	0.2	1	4	60
93	20000E-19750N	22	120	10	0.2	1	2	10
94	19760	22	140	18	0.2	1	2	10
95	19770	20	120	16	0.2	1	2	10
96	19780	24	90	8	0.2	1	2	10
97	19790	18	64	1	0.2	1	2	10
98	19800	24	74	1	0.2	1	2	10
99	19810	26	76	1	0.2	1	2	10
100	CHECK NL-5	22	66	72	1.6	10	56	10
101	19820	26	70	1	0.2	1	2	10
102	19830	30	72	1	0.2	1	2	10
103	19840	24	62	1	0.2	1	2	10
104	19850	36	76	1	0.2	1	2	10
105	19860	30	76	1	0.2	1	2	10
106	19870	30	62	1	0.2	1	2	10
107	19880	32	68	1	0.2	1	2	10
108	19890	30	72	1	0.2	1	2	10
109	19900	30	72	1	0.2	1	2	10
110	19910	28	70	1	0.2	1	2	30
111	19920	38	76	1	0.2	1	2	10
112	19930	32	70	1	0.2	1	2	40
113	19940	34	74	1	0.2	1	2	20
114	19950	44	66	1	0.2	1	2	10
115	19960	28	76	1	0.2	1	2	60
116	19970	22	70	1	0.2	1	2	20
117	19980	14	50	1	0.2	1	2	10
118	19990	16	50	1	0.2	1	2	10
119	20000	10	130	24	0.2	1	2	10
120	20010	28	64	1	0.2	1	2	290
121	20020	28	74	1	0.2	1	2	20
122	20030	16	58	1	0.2	1	2	10
123	20040	16	60	1	0.2	1	2	10
124	20050	20	56	1	0.2	1	2	30
125	20060	10	40	1	0.2	1	2	10
126	20070	14	54	1	0.2	1	2	20
127	20080	140	48	1	1.4	1	2	2400
128	20090	16	68	1	0.2	1	2	10
129	20100	10	52	1	0.2	1	2	10
130	20110	12	70	1	0.2	1	2	10
131	20120	30	70	1	0.2	1	2	10
132	20130	24	86	1	0.2	1	2	10
133	20140	28	50	1	0.2	1	2	10
134	20150	24	80	1	0.2	1	2	10
135	20160	24	80	1	0.2	1	2	10
136	20170	32	88	1	0.2	1	2	10
137	20180	34	76	1	0.2	1	2	10
138	20190	28	84	1	0.2	1	2	10
139	20200	28	76	1	0.2	1	2	10
140	20000E-20210N	20	64	1	0.2	1	2	10
141	20050E-20000N	32	130	1	0.2	1	2	10
142	20010	12	76	1	0.2	1	2	10
143	20020	16	80	1	0.2	1	2	10
144	20030	12	80	1	0.2	1	2	10
145	20040	12	76	1	0.2	1	2	10
146	20050	16	82	1	0.2	1	2	10
147	20060	6	42	1	0.2	1	2	10
148	20070	8	54	1	0.2	1	2	10

149	20080	22	60	1	0.2	1	2	10
150	CHECK NL-5	22	64	68	1.6	8	56	10
151	20090	20	52	1	0.2	1	2	10
152	20100	18	68	1	0.2	1	2	10
153	20110	24	68	1	0.2	1	2	10
154	20120	22	70	1	0.2	1	2	10
155	20130	24	62	1	0.2	1	2	10
156	20140	24	80	1	0.2	1	2	10
157	20150	40	78	1	0.2	1	2	10
158	20160	32	72	1	0.2	1	2	10
159	20170	24	80	1	0.2	1	2	10
160	20050E-20180N	26	74	1	0.2	1	2	10
161	20100E-19750N	20	56	1	0.2	1	2	10
162	19760	18	56	1	0.2	1	2	10
163	19770	14	76	1	0.2	1	2	10
164	19780	22	72	1	0.2	1	2	20
165	19790	30	72	1	0.2	1	2	10
166	19800	26	76	1	0.2	1	2	10
167	19810	28	74	1	0.2	1	2	10
168	19820	22	70	1	0.2	1	2	10
169	19830	36	80	1	0.2	1	2	10
170	19840	24	64	1	0.2	1	2	10
171	19850	16	54	1	0.2	1	2	10
172	19860	14	58	1	0.2	1	2	10
173	19870	14	64	1	0.2	1	2	10
174	19880	22	66	1	0.2	1	2	10
175	19890	20	66	1	0.2	1	2	10
176	19900	16	58	1	0.2	1	2	10
177	19910	32	72	1	0.2	1	2	10
178	19920	18	60	2	0.2	1	2	10
179	19930	18	64	2	0.2	1	2	10
180	19940	26	86	1	0.2	1	2	10
181	19950	24	76	1	0.2	1	2	10
182	20010	22	64	1	0.2	1	2	10
183	20020	24	68	1	0.2	1	2	20
184	20030	24	64	1	0.2	1	2	10
185	20040	24	62	1	0.2	1	2	10
186	20100E-20050N	22	52	1	0.2	1	2	10

Disposition: d

End of Mail.

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NORANDA VANCOUVER LABORATORY

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PROPERTY/LOCATION:KLEHINI RIVER CODE :8511-008

Project No. :Y76 Sheet:1 of 1 Date rec'd:NOV.02
Material :SOIL Geol.:M.S. Date compl:DEC.01
Remarks :

Values in PPM, except where noted.

T.T. No.	SAMPLE No.	Cu	Zn	Pb	Ag	Mo	As	PPB Au
2	20050E-19990N	8	58	1	0.2	1	1	10
3	19980	20	78	1	0.4	1	1	10
4	19970	16	72	1	0.2	1	1	10
5	19960	28	70	1	0.2	1	1	10
6	19950	16	60	1	0.2	1	1	130
7	19940	38	68	1	0.2	1	1	10
8	19930	36	54	1	0.2	1	1	10
9	19920	32	72	1	0.2	1	1	10
10	19910	22	48	1	0.2	1	1	10
11	19900	16	32	1	0.2	1	1	10
12	19890	24	76	1	0.2	1	1	10
13	19860	32	62	1	0.2	1	1	10
14	19870	24	64	1	0.2	1	1	10
15	19860	22	60	1	0.2	1	1	10
16	19780	16	76	1	0.2	1	1	10
17	20050E-19760N	22	86	1	0.4	1	1	10

NORANDA VANCOUVER LABORATORY

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PROPERTY/LOCATION:KLEHENI RIVER CODE :8510-009

Project No. :Y76 Sheet:1 of 3 Date rec'd:SEP.27
Material :TALUS FINES Geol.:M.S. Date compl:NOV.15
Remarks :

Values in PPM, except where noted.

T.T. No.	SAMPLE No.	Cu	Zn	Pb	Ag	Mo	As	PPB Au
2	70551	30	88	6	0.2	1	2	10
3	70552	26	94	6	0.2	1	6	10
4	70553	26	88	4	0.2	1	2	10
5	70554	26	96	6	0.2	1	1	10
6	70555	22	88	4	0.2	1	1	10
7	70556	22	88	2	0.2	1	1	10
8	70557	32	92	4	0.2	1	4	10
9	70558	32	86	2	0.2	1	1	10
10	70559	36	98	2	0.2	6	1	10
11	70560	34	96	4	0.2	1	6	10
12	70561	30	88	4	0.2	1	2	20
13	70562	38	88	6	0.2	1	4	10
14	70563	34	86	6	0.2	1	4	10
15	70563	28	80	4	0.2	1	1	10
16	70564	34	94	4	0.2	1	4	10
17	70565	24	90	4	0.2	1	1	10
18	70566	30	100	4	0.2	1	2	10
19	70567	28	84	4	0.2	1	2	10
20	70568	30	96	4	0.2	1	1	10
21	70569	26	86	4	0.2	1	2	10
22	70570	30	100	4	0.2	1	2	10
23	70571	58	100	2	0.2	1	1	10
24	70572	46	96	1	0.2	1	2	10
25	70573	36	100	1	0.2	1	1	10
26	70574	30	94	4	0.2	1	4	10
27	70575	32	100	4	0.2	1	1	10
28	70576	50	94	1	0.2	1	4	50
29	70577	48	100	4	0.2	1	6	10
30	70578	46	74	2	0.2	1	2	10
31	70579	40	78	4	0.2	1	4	10
32	70580	38	96	2	0.2	1	4	10
33	70581	78	120	2	0.2	1	1	10
34	70582	96	100	2	0.2	1	1	10
35	70583	50	98	1	0.2	1	1	10
36	70584	80	110	2	0.2	1	8	10
37	70585	100	140	2	0.2	1	12	10
38	70586	70	110	4	0.2	1	2	10
39	70587	54	86	1	0.2	1	6	10
40	70588	50	96	1	0.2	1	6	10
41	70589	56	84	2	0.2	1	8	10
42	70590	84	120	1	0.2	1	4	10
43	70591	74	110	2	0.2	1	2	10
44	70592	64	84	2	0.2	1	1	10
45	70593	48	76	1	0.2	1	1	10
46	70594	64	82	1	0.2	1	2	80
47	70595	56	86	1	0.2	1	1	10
48	70596	50	100	2	0.2	1	1	160
49	70597	50	96	6	0.2	1	1	250

T. T. No.	SAMPLE No.	Cu	Zn	Pb	Ag	Mo	As	PPB Au	85010-C Pg. 2 c
50	70598	54	100	1	0.2	1	2	170	
51	70599	54	82	1	0.2	1	4	90	
52	70600	50	96	4	0.2	1	8	200	
53	70601	58	110	6	0.2	1	6	250	
54	70602	68	90	2	0.2	1	1	140	
55	70603	74	86	1	0.2	1	1	10	
56	70604	52	82	1	0.2	1	1	10	
57	70605	52	84	1	0.2	1	1	10	
58	70606	64	86	4	0.2	1	1	80	
59	70607	76	88	4	0.2	1	1	50	
60	70608	110	100	4	0.2	1	1	10	
61	70609	52	84	2	0.2	1	4	10	
62	70610	40	78	2	0.2	1	1	10	
63	70611	38	72	1	0.2	1	1	10	
64	70612	38	68	2	0.2	1	1	10	
65	70613	38	60	1	0.2	1	1	10	
66	70614	30	60	1	0.2	1	1	10	
67	70614	36	60	1	0.2	1	1	10	
68	70615	38	56	1	0.2	1	1	10	
69	70616	30	94	4	0.2	1	1	10	
70	70617	64	96	1	0.2	1	1	10	
71	70618	44	110	2	0.2	1	1	10	
72	70619	68	130	1	0.2	1	2	10	
73	70622	70	180	18	0.2	1	30	10	
74	70623	52	120	2	0.2	1	2	10	
75	70624	64	96	1	0.2	1	4	10	
76	70625	36	76	12	0.2	1	10	10	
77	70626	74	92	4	0.2	1	30	10	
78	70627	74	82	2	0.2	1	6	10	
79	70628	74	82	2	0.2	1	6	10	
80	70629	50	68	1	0.2	1	2	10	
81	70630	46	58	2	0.2	1	12	10	
82	70631	64	88	1	0.2	1	14	10	
83	70632	90	110	4	0.2	1	16	10	
84	70633	68	78	2	0.2	1	12	10	
85	70634	54	80	1	0.2	1	4	10	
86	70635	48	86	2	0.2	2	24	10	
87	70636	48	74	1	0.2	1	1	10	
88	70637	44	74	1	0.2	1	1	10	
89	70638	48	92	1	0.2	1	2	40	
90	70639	48	78	1	0.2	1	1	10	
91	70640	48	76	2	0.2	1	2	140	
92	70641	44	74	1	0.2	1	1	10	
93	70642	44	82	1	0.2	1	4	10	
94	70643	48	76	1	0.2	1	1	10	
95	70645	48	76	1	0.2	1	1	10	
96	70646	48	78	4	0.2	1	2	10	
97	70647	56	78	2	0.2	1	1	10	
98	70648	50	76	1	0.2	1	1	10	
99	70649	38	74	1	0.2	1	1	10	
100	CHECK NL-S	[illegible]							
101	70650	46	84	2	0.2	1	1	10	
102	70651	40	90	2	0.2	1	1	10	
103	70652	40	84	2	0.2	1	1	10	
104	70653	44	80	2	0.2	1	2	10	
105	70654	40	82	2	0.2	1	1	10	
106	70655	46	86	2	0.2	1	1	10	

T. T. No.	SAMPLE No.	Cu	Zn	Pb	Ag	Mo	As	PPB Au	85(Pg.
107	70656	54	98	4	0.2	1	2	10	
108	70657	52	94	2	0.2	1	1	10	
109	70658	44	80	2	0.2	1	1	10	
110	70659	50	94	2	0.2	1	1	10	
111	70660	46	92	4	0.2	1	2	10	
112	70661	46	88	4	0.2	1	1	10	
113	70662	40	110	4	0.2	1	1	10	
114	70663	38	92	1	0.2	1	1	10	
115	70664	4	64	2	0.2	1	1	10	
116	70665	40	84	1	0.2	1	1	10	
117	70666	52	100	2	0.2	1	1	10	
118	70667	42	82	1	0.2	1	1	10	
119	70668	34	84	1	0.2	1	1	10	
120	70669	40	110	1	0.2	1	1	10	
121	70670	40	94	2	0.2	1	2	10	
122	70671	32	92	1	0.2	1	4	10	
123	70672	36	86	1	0.2	1	2	10	
124	70673	38	90	1	0.2	1	4	10	
125	70674	36	84	1	0.2	1	2	10	
126	70675	50	88	2	0.2	1	6	10	
127	70676	98	84	1	0.2	1	2	10	
128	70678	52	110	2	0.2	1	8	10	
129	70679	48	100	6	1.0	1	6	10	
130	70680	40	110	6	0.6	1	10	10	
131	70681	52	110	2	0.2	1	1	10	
132	70682	38	110	4	0.2	1	1	10	
133	70683	36	110	6	0.2	1	6	10	
134	70686	30	110	6	0.2	1	1	10	
135	70687	50	110	6	0.2	1	4	10	
136	70688	46	100	4	0.2	1	6	10	
137	70689	44	100	4	0.2	1	8	10	
138	70690	68	110	4	0.2	1	12	10	
139	70691	40	110	4	0.2	1	4	10	
140	70692	82	110	2	0.2	1	2	10	
141	70694	100	110	4	0.2	1	6	10	
142	70695	76	86	2	0.2	1	1	10	
143	70696	80	86	2	0.2	1	1	10	
144	70697	74	90	1	0.2	1	1	10	
145	70699	96	92	4	0.2	1	10	10	
146	70700	70	82	2	0.2	1	1	10	
147	70701	82	88	2	0.2	1	1	10	
148	70702	76	88	2	0.2	1	6	10	
149	70703	68	82	4	0.2	1	4	10	
150	CHECK NL-5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	–	
151	70704	70	84	4	0.2	1	10	10	
152	70705	68	74	2	0.2	1	6	10	
153	70706	52	72	1	0.2	1	4	10	
154	70707	52	70	1	0.2	1	2	10	
155	70708	56	78	1	0.2	1	2	10	
156	70709	62	84	1	0.2	1	2	10	
157	70710	64	86	2	0.2	1	6	10	
158	70711	62	120	2	0.2	1	4	10	
159	70712	90	92	2	0.2	1	6	10	
160	70713	76	110	1	0.2	1	2	10	
161	70715	100	74	1	0.2	1	1	10	

APPENDIX G

ROCK SAMPLE DESCRIPTIONS

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/10

PROPERTY KLEHINI RIVER

DATE July 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH (m)	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
41329	Quartz vein - white, massive, typical, in diorite host.	chip	0.5	0.029	0.02	16					M. Savell
41330	Quartz vein - as above, same vein, different exposure - strike 165°, dip ~50°E	chip	1.0	0.169	0.035	14					
41331	Diorite - typical, unaltered, chips along ridge top, some basaltic dyke material	chip	3.0	0.001	0.02	8					
41332	Diorite - as above	chip	2.0	0.001	0.02	12					

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
41344	Downslope extension of #41449 vein (above), very	chip	2.5	0.001	0.02	6					M. Savell
	similar in appearance, minor schistose, alt'd										
	diorite in centre. Contacts obscured by talus.										
	"Outcrop" may be just large boulder fallen from										
	cliff above, appears to be slightly offset from										
	vein trend.										
41345	From NE wall of quartz vein #41449 - sample of qtz-	grab		0.001	0.02	6					
	carb veinlets in alt'd diorite; veinlets irregular										
	up to ~5 cm thick.										
41346	Andesitic volcanic - pale grey-green, f.gr., faint	float		0.001	0.02	428					
	feldspar phenocrysts visible, weakly schistose,										
	with ~5% py, 1% chalcopy in interconnected frac-										
	tures and clusters. Float in lateral moraine.										
41347	Skarn - contains coarse garnets, calcite and calc-	float		0.001	0.02	440					
	silicates, with minor py and fracture coating MoS_2.										
	Float in lateral moraine.										
41348	Basaltic Dyke - f.gr., dull gr.-green, massive	float		0.001	0.02	68					
	with minor MoS_2 in small rosettes. Float in talus										
	slope.										
41349	Basaltic Dyke - similar to above, with ~10% py in	float		0.001	0.02	14					
	fractures.										

NORANDA EXPLORATION COMPANY, LIMITED

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PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
41350	Granodiorite - rusty weathered, bleached grano-	float		0.001	0.02	12					M. Savell
	dioritic rock with ~10% fracture filling py.										
	Float in talus slope.										
41425	Granite - rusty weathered, bleached zone in granite	chip	3	0.001	0.02	2					
	at diorite-granite contact.										
41426	Quartz vein - brittle, milky white, with extensive	chip	1.3	0.001	0.02	8					
	limonite stained fractures. Vein attitude ~170/60°W.										
	Taken 5 m from #72138 (1984). Host rock is a slightly										
	sheared hbl diorite, some silicification(?) near										
	vein contacts. Diorite contains a network of vein-										
	lets qtz (<5% volume) and epidote coated fractures.										
41427	Quartz vein - 25 m along strike to above.	chip	1.7	0.370	0.02	8					
41428	Diorite - hanging wall to #41427, fine grained,	chip	2.0	0.004	0.02	36					
	siliceous with possible calc-silicates developed										
	near contact.										
41429	Diorite - footwall to #41427, has "skarny" appear-	chip	2.0	0.001	0.02	10					
	ance (alteration?) near vein contact.										
41430	Quartz vein - 25 m along strike from #41427.	chip	1.7	0.010	0.02	16					
41431	Quartz vein - two branches, separated by green,	chip	0.7	0.040	0.02	4					
	siliceous, f.gr., skarny alt'd diorite(?).										
41432	Vein "zone" - poorly exposed, rusty weathered out-	chip	0.8	0.002	0.02	4					
	crop, some quartz, mostly altered diorite(?).										
	Green, siliceous, f.gr. rock with skarn appearance.										

NORANDA EXPLORATION COMPANY, LIMITED

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PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	(opt) Au	(opt) Ag	(ppm) Cu	ASSAYS				SAMPLED BY
41433	Qtz-Ankerite vein - on strike with qtz vein sampled	chip	0.9	0.036	0.02	4					M. Savell
	above, but with ~40% akerite. May not be same vein.										
	Small crosscutting qtz-ankerite veinlets nearby.										
41434	Quartz vein - similar to material sampled in	chip	1.3	0.006	0.02	12					
	#41426, strike extension of same vein. Underlain										
	by 0.7 m qtz-carb altered diorite(?). Vein is 0.6m										
	thick.										
41435	Quartz vein - as in #41426.	chip	1.0	0.930	0.06	10					
41436	Quartz vein - as in #41426.	chip	0.7	2.160	0.16	68					
41437	Quartz vein - as in #41426.	chip	1.0	0.032	0.02	18					
41438	Quartz vein - as in #41426. Vein is displaced	chip	1.05	0.550	0.04	4					
	(faulted) 3 m near sample site.										
41439	Quartz vein - as in #41426. Vein attitude ~115/60°S.	chip	0.85	0.045	0.02	8					
41440	Wall rock - rusty weathered, green, silicified,	chip	1.15	0.001	0.02	52					
	altered diorite - no quartz observed, but probably										
	obscured by talus.										
41441	Quartz vein - different vein than above (see map).	chip	1.2	0.002	0.02	10					
	Similar in appearance, with some pyrite-rich (~50%)										
	sections within vein, ~10 cm thick, discontinuous,										
	coarse grained.										
41442	Rusty weathered, qtz-carb altered(?) diorite with	chip	0.8	0.092	0.02	6					
	thin qutz-carb veinlets (~30% vein material) up										
	to 8 cm thick. Zone is 0.8 m at ridge top, strikes										

NORANDA EXPLORATION COMPANY, LIMITED

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PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
	~020°, dips 45° W. Sample #71923 probably taken										M. Savell
	from dip slope of this zone at same site.										
3 41443	As above - same zone 10 m downdip. Poor exposure	chip?	0.7	0.008	0.02	6					
	estimate thickness.										
3 41444	As above - same zone 10 m downdip of #41443, NE	chip	1.0	0.010	0.02	8					
	side of ridge. Zone of hematized, rust-red coloured										
	fault gouge or alteration product, 4 cm thick,										
	within zone sampled.										
3 41445	Rusty weathered, altered diorite or skarn pendant	chip	3.0	0.001	0.02	32					
	in diorite(?) - pale green, f.gr. siliceous. Zone										
	appears to intersect ridge at ~90°. Strike obscured										
	by talus.										
✓ 5 41446	Quartz vein - typical, well exposed, host rock is	chip	3.5	0.001	0.02	4					
	is xenolithic diorite. Band of highly schistose,										
	qtz-carb alt'd diorite at footwall contact.										
5 41447	Quartz vein - same vein as above, 5 m to north.	chip	3.0	0.001	0.02	4					
5 41448	SW wall of vertical qtz vein (#41449) - mildly qtz-	chip	2.0	0.001	0.02	46					
	carb alt'd diorite, xenolithic, migmatitic.										
5 41449	Quartz vein - base of extensive cliff exposure of	chip	3.7	0.017	0.68	14000					
	well exposed vein, vertical. Vein consists predomi-										
	nantly of massive, limonite stained quartz, with										
	centre of 5-10 cm thick band of 50% coarse chalco										
	+ po. Directly next to this is a 10 cm band of										

NORANDA EXPLORATION COMPANY, LIMITED

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PROPERTY KLEHINI RIVER

DATE Sept. 1985.

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	(opt) Au	(opt) Ag	(ppm) Cu	ASSAYS				SAMPLED BY
	highly schistose qtz-carb alt. diorite(?), then more										M. Savell
	massive qtz-carb alt. diorite, with thin (to 5 cm)										
	qtz-carb veinlets. This zone lies between the										
	massive quartz.										
41450	NE wall of qtz vein #41449 - limonite stained,	chip	2	0.001	0.02	46					
	qtz-carb altered diorite, minor thin qtz-carb										
	veinlets.										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/10

PROPERTY KLEHINI RIVER

DATE July 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLE BY
Q 69934	Quartz vein - white, massive, limonite on fractures, hosted by diorite.	chip		0.07	NA	NA					M. Savel
69935	Quartz vein - same vein as above, different exposure.	chip		0.02	NA	NA					
Q 69936	Quartz vein - same vein as above, different exposure.	chip		0.017	NA	NA					
Q 69937	64 cm chip sample across rusty quartz-(carb) vein. Vein strikes approx. 083°, dips 32° south. Location is 15 m at 335° from #69935. No visible sulphides but extensive hematite staining.	chip	64cm	0.25	NA	NA					
Q 69938	Grab sample of coarse, rusty quartz vein. Same location as #69937.	grab		0.65	NA	NA					
Q 69939	Quartz vein - milky white, massive, typical, same vein but different exposure.	chip	0.5	0.01	NA	NA					
Q 69940	Footwall rock - dark green, very fine grained, banded dyke paralleling quartz vein, possibly altered diorite(?), minor dissem. py.	chip	1.0	<0.01	NA	NA					
69962	KR-10 claim - Siderite(?) - 10x15x17 cm, angular cobble of dark rusty orange weathering, medium creamy, rusty orange, medium to crystalline, with one irregular "bull" quartz veinlet to 2 cm thick, and 3%, irregular pods to 1x2 cm and stringer-like fracture zones, with finely crystalline muscovite	grab/ float		0.001	0.02	20					G.B.

NORANDA EXPLORATION COMPANY, LIMITED

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PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	(opt) Au	(opt) Ag	(ppm) Cu	ASSAYS				SAMPLED BY
	with a few % chlorite?.										G.B.
69963	KR-10 claim. Quartz vein: rubbly slumped outcrop	chip	70cm	0.001	0.02	10					
	of rusty orange to brown-weathering, moderately										
	fractured, "bull" quartz. Largest slump-boulder										
	is 50x70x110 cm; vein trends 120°; occurs within										
	diorite(?) about 10 m NW of large inlier of meta-										
	limestone and siltstone and argillite.										
69964	KR-10 claim. Meta-silty? argillite and interbedded	chip	2	0.001	0.02	62					
	meta-siltstone.2 m thick, very rusty weathering										
	interval within meta-limestone which forms inlier										
	within diorite?. Argillite: near black, very fine										
	grained, very weakly schistose?; siltstone: medium										
	grey to grey-buff, feldspar? + (quartz + biotite?).										
69965	KR-8 claim. Meta-siltstone: 3-5%, very, very fine	composite of 3 grabs		0.001	0.02	56					
	disseminated pyrite; very rusty weathering, very										
	thin bedded to laminated, very dark grey (to medium										
	grey-lavender) with white laminations, very fine										
	grained, meta-feldspar?-quartz-biotite-siltstone.										
69966	KR-10 claim. Rusty quartz vein boulder, 8x20x20	grab/ float		0.001	0.02	8					
	cm, angular, medium to dark, rusty orange weathering,										
	strongly fractured, "bull" quartz with 2-3%, irregular,										
	fractures filled with fine grained muscovite, up										
	to 5 mm thick. In diorite? talus slope.										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
69967	KR-10 claim. Rusty quartz vein cobble: 8x10x15 cm sub-angular cobble in talus of diorite. 30%, medium rusty orange weathering, moderately fractured, "bull" quartz.	grab/ float		0.001	0.02	38					G.B.
69968	KR-10 claim. Rusty quartz vein boulder, 28x45x45 cm; with 20%, medium rusty orange staining on fractures and 0.5%, irregular, discontinuous fractures lined with very fine to fine grained muscovite.	float/ chip	across 28 cm	0.001	0.02	4					
69969	Quartz - milky, white, massive, rusty orange weathering boulder with a few vugs, muscovite lined fractures - chip across 14 cm from 14x30x40 cm boulder.	float		0.001	0.02	4					
69970	KR-10 claim. Siderite? boulder: 20x20x30 cm, sub-angular boulder of medium rusty orange weathering, coarsely crystalline siderite? with 2-3%, irregular pods of very fine to finely crystalline muscovite to 1x1.5x3 cm. In diorite? talus slope.	float/ chip	across 20 cm	0.001	0.02	4					
69971	KR-10 claim. Siderite? boulder: 50x60x70 cm, angular; resembles #69970. In diorite? talus.	float/ chip	across 50 cm	0.001	0.02	4					
69972	KR-11 claim. (Pyritic) diorite? shear zone. Very strongly sheared, diorite?: variably altered to olive-green epidote or sericite?, or sausserite? (Feldspar) and chlorite (hornblende). About 0.5-2%	chip	5 m	0.040	0.24	16					

NORANDA EXPLORATION COMPANY, LIMITED

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PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLE BY
	fracture pyrite. Sample does not include #69973										G.B.
	and #69974 which occur in shear zone. Shear zone										
	strike 325°/dips 90°.										
69973	KR-11 claim. "Bull" quartz vein. Moderately to	chip	across 11 cm	0.001	0.02	4					
	strongly fractured, stained medium rusty orange;										
	up to 11 cm thick; strike length about 1.7m; occurs										
	in 5m thick, shear zone within diorite?, oriented										
	parallel to shears.										
69974	KR-11 claim. Rhyolite? dyke?: strongly fractured,	chip	across 75 cm	0.001	0.08	16					
	sub-opaque white to very light tan, very strongly										
	sericite? altered, metavitric? rhyolite? with abun-										
	dant rusty orange fractures. Dyke about 75-80 cm										
	thick; occurs along NE margin of shear zone in										
	diorite? (see #69972).										
69975	KR-11 Claim. Rusty quartz vein: to 33 cm thick,	chip	across 33 cm	0.001	0.02	18					
	x 2 m strike length. Strongly fractured, very rusty										
	orange to brown weathering; appears discontinuous										
	along strike (and dip): 2 lenses to 1 m long appar-										
	ent - occurs in diorite?										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/10

PROPERTY KLEHINI RIVER

DATE Sept. 16/85

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
70101	Qtz-feldspar aplite dyke - 2% dissem. sulphides	float	5 cm	0.001	0.02	4					SAM/JAF
	(galena?) - 5 cm thick.										
70102	Similar to R70101.			0.001	0.02	2					
70103	Cream coloured micritic limestone - no visible	o/c	grab	0.001	0.02	6					
	sedimentary structure or sulphides.										
70104	Qtz feldspar porphyry with 2% pyrite.			0.001	0.02	20					
70151	Quartz vein - typical, 3.0 m wide, fairly well ex-	chip	3 m	0.001	0.02	4					M Savell
	posed. 25 m at 090° from 41446. Host is foliated,										
	xenolithic diorite. Vein strikes 090°, dips vertically.										
70152	Quartz vein - typical, same vein as above, 25 m	chip	2.1	0.005	0.02	8					
	at 090° from 70151.										
70153	Footwall (to north) of above vein - qtz-carb-seri-	chip	2.0	0.002	0.02	8					
	cite altered diorite, pale green, schistose, rusty										
	weathered with ~5% thin quartz veinlets.										
70154	Quartz vein with altered host diorite - on strike	chip	2.5	0.001	0.02	10					
	with 70152, 25 m to east. Zone sampled contains										
	50% vein material, vein branches, pinches.										
70155	Quartz vein with altered diorite, at ~080° 50 m	chip	2.0	0.002	0.02	8					
	from 70154, probably same structure. Zone sampled										
	contains ~40% vein material, mainly in two branches.										
	Foliation in nearby diorite at 160/45° W.										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
70156	Quartz-carbonate vein - ~75 m east of 70155. Vein is not well defined, irregular, poddy, anastomizing thin branches. Ankerite much more common here than 70151-70155.	chip	2.1	0.008	0.02	6					M. Savell
70157	Quartz vein in diorite, very little alteration of host, sample contains 80% quartz, mostly in one vein. Sample site is ~25 m north of 70156. Possibly different vein or offset of same structure - obscured by talus.	chip	1.8	0.001	0.02	4					
70158	Quartz vein in metasediments - biotite schists, xenolithic diorite - chip across 2 m of rubbly o/c on ridge top, true thickness of vein not measureable.	chip	2.0	0.001	0.02	4					
70159	Quartz vein - same vein as in 70158, 25 m on strike to east, at 130/70° N.	chip	2.0	0.001	0.02	12					
70160	Quartz vein, well exposed, typical. Fine grained dioritic host, weakly altered. Minor malachite staining. Sericitic altered inclusion in vein. At 140°/90°.	chip	1.4	0.001	0.02	80					
70161	Quartz vein, 15 m downslope of 70160, same vein, slight offset to north. Pinches out to 30 cm immediately below sample site.	chip	1.5	0.001	0.02	422					
70162	Quartz vein, 20 m downslope of 70161, same vein strike 115/85° N	chip	1.5	0.002	0.02	266					

NORANDA EXPLORATION COMPANY, LIMITED

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DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
	Trench "A"										
70165	Footwall diorite - friable, slightly sheared,	chip	1.0	0.009	0.02	282					M. Savell
	weakly altered diorite.										
70166	Quartz vein, very rusty, limonitized, friable,	chip	1.3	0.310	0.28	244					
	crumbly quartz, vein is fairly well defined, 1.3m										
	thick at 140/52° NE.										
70167	Hanging wall Diorite - similar to 70165.	chip	1.0	0.005	0.02	74					
	Trench "B"										
70168	Quartz "pod", massive rusty weathered, limonite and	grab		0.056	0.02	18					
	manganese stained quartz in 0.3x0.9 m pod, surrounded										
	by highly weathered, sheared diorite.										
70169	Altered diorite - weathered, sheared wall rock of	grab		0.001	0.02	224					
	above sample.										
	Trench "C"										
70170	Diorite - clay altered, sheared, weathered, taken	chip	2	0.002	0.02	42					
	from trench, underneath #70171.										
70171	Weathered quartz vein - highly altered, limonitized,	chip	0.8	2.440	0.86	494					
	cumbly quartz, in irregular shaped vein, minor mala-										
	chite, azurite staining near contact.										
70172	Altered Diorite - footwall to #70173, sheared, wea-	chip	0.4	0.035	0.04	22					
	thered, clay altered (minor) dioritic intrusive.										
70173	Quartz vein - highly weathered, crumbly, friable,	chip	0.3	0.330	0.16	50					
	sugary qtz, "vein" may be sloping parallel to gully										
	bank or may even be layer of talus(??)										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
70175	Gossan in diorite - chips from ridge top outcrop	grab		0.001	0.02	10					M. Savell
	of rusty weathered, limonitized intrusive, with										
	minor network of fine quartz and calcite veinlets.										
73612	South central KR-1 claim. Gossanous Qtz + Fsp? +	chip	50 cm	0.216	0.14	168					
	Cal. vein. Crumbly; medium rusty orange. Contact										
	with wall rock with 2-10 cm thick zone of strongly										
	brecciated quartz locally with Cu-staining. Wall										
	rock: intrusive?; strongly sheared, medium gray-										
	green, deeply clay weathered, finely? crystalline?,										
	very strongly epidote?-sericite?-altered. Vein										
	strikes about 345°/dips about 65° NE.										
73613	As 73612; 4 m below (150° Az) 73612. Gossanous	chip	60 cm	3.500	1.34	322					
	Qtz vein, as 73612. Strike and dip of NE contact										
	with wall rock: 280°/60° N; of SW contact: about										
	255°/55° S.										
73614	9 m SW of 73612; at old grab sample site 69941.	chip	30 cm	0.176	0.10	24					
	White Qtz vein: strongly fractured and crumbly;										
	overlain by limonite? gossan; underlain by grey-										
	green clay-weathered intrusive? Basal contact										
	strikes about 035°/dips about 15° SE: could be										
	dip sloping.										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
73615	North central KR-2 claim. Float cobble of very	grab/ float		0.015	0.02	52					G.B.
	rusty weathering, sub-opaque medium grey, very										
	strongly ankerite?-altered, very finely crystalline?										
	rock with 5-7% very, very fine, disseminated pyrite										
	and about 7-8% very, very fine, disseminated, opaque										
	tan sphalerite?. Float in lateral moraine.										
73617	KR-6 claim; ridge northeast of Jarvis Glacier.	grab/ float		0.001	0.02	16					
	Float cobble (7x12x15 cm) of pyrite rhyolite??:										
	medium rusty-orange stained with core of translucent										
	grey/opaque white spotted; feldspar?, quartz por-										
	phyritic?, vitric rhyolite? with about 5% very,										
	very fine to fine, disseminated, anhedral pyrite.										
	In talus of diorite?.										
73618	KR-6 claim, 475 m east of 73617. Float from talus	grab/ float		0.001	0.02	60					
	of pyritic basalt?: very rusty weathering, 12 cm										
	diameter, angular cobble of very dark grey, very,										
	very finely crystalline, weakly magnetic, feldspar-										
	hornblende?-basalt? with 3-4% very, very fine,										
	disseminated pyrite.										
73619	KR-6 claim, 550 m NE of 73617. Float: angular,	grab		0.001	0.02	72					
	very rusty weathering, cobble of brittle, strongly										
	fractured, pyritic apalite?: sub-translucent grey,										
	hard, very, very fine grained, with 5-10% very,										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
73619	very fine, disseminated, pyrite and a black to										G.B.
	steel-grey appearing sulphide or oxide. Probably										
	derived from 10 m? thick, rusty zone on ridge crest,										
	300 m to the north, occurring within diorite?.										
73620	KR-6 claim, 850 m east of 73617. In talus of	grab		0.001	0.02	12					
	diorite?, angular cobble of quartz vein: rusty										
	orange weathering, 5.5x13x17 cm of very coarsely										
	crystalline, sub-opaque to sub-translucent white										
	quartz with one side of cobble with 50% vugs. Qtz										
	moderately fractured, with rusty orange staining										
	along fractures. Vein at least 5.5 cm thick.										
73621	KR-10 claim: quartz vein float: angular cobble,	grab/ float		0.015	0.02	6					
	4.5x8x10 cm, of milky white, coarse grained quartz										
	with 0.5%, rusty orange to brown stained and lined										
	fractures and 1% vugs.										
73622	KR-10 claim: rusty quartz vein float. Angular	grab/ float		0.002	0.02	22					
	cobble, 4.5x8x15 cm; "bull" quartz with 1% dark										
	rusty brown to medium rusty orange, lined fractures										
	cutting sub-translucent white, coarse grained quartz.										
73623	KR-10 claim. Float of very rusty weathering cobble,	grab float		0.001	0.02	112					
	sub-angular, 4x7x14 cm of milky white, fine or										
	medium? grained feldspar with 30% rusty orange staining										
	and 2-4% very fine, disseminated and fracture-pyrite										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
73623	and pyrrhotite?. Rock is weakly magnetic.										G.B.
73624	KR-10 claim. Rusty diorite? - angular boulder,	grab/ float		0.001	0.02	114					
	15x17x17 cm of rusty weathering, medium (lavender-)										
	grey/very light grey/black spotted, altered, coarsely										
	crystalline, feldspar-hornblende-diorite? with about										
	3-4% very fine to very, very fine, disseminated pyrite										
	and pyrrhotite and 1-2%, fracture-controlled, patchy										
	pyrite and pyrrhotite.										
2 73629	Vein No. 1 - qtz vein, no visible sulphides	chip	30 cm	0.010	0.02	10					SAM/JH
	162°/72° E @ 25 m.										
2 73630	Vein No. 1 - munged, foliated, clay altered hanging	grab	20 cm	0.048	0.02	12					
	wall rock adjacent to quartz vein.										
2 73631	Vein No. 1 - qtz vein - no visible sulphides @ 50m	chip	50 cm	0.100	0.02	8					
	Vein No. 2 - Saddle claims										
73632	Grab of subsidiary vein - 105°/64° S.	grab	5 cm	0.001	0.02	12					
73633	Chip across qtz/pyrite (30%) vein 115°/70° S.	chip	60 cm	0.001	0.02	6					
73634	Chip across another subsidiary qtz vein (no visible	chip	15 cm	0.001	0.02	4					
	sulphides) ~108°/82° N.										
73635	Grab of wall rock - f.gr. diorite	grab		0.001	0.02	38					
73636	Grab of wall rock - hnbl diorite with mafic xeno-	grab		0.001	0.02	52					
	liths elongated perpendicular to vein.										
73637	Chip across rusty quartz/pyrite (15%) vein 112/85°S	chip	25 cm	0.003	0.08	28					

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
73638	Chip across rusty qtz pyrite vein (20% pyrite)	chip	60 cm	0.009	0.10	66					SAM/JH
	118°/vert.										
73639	Chip across qtz vein (no visible sulphides) 118/74N	chip	80 cm	0.004	0.02	12					
73640	Wall rock grab - diorite	grab		0.001	0.02	12					
73641	Chip across quarz vein (~5% pyrite)	chip	60 cm	0.044	0.02	8					
73642	Vein No. 3 - qtz vein 15 cm thick - rusty	grab		0.040	0.02	14					
73643	Vein No. 3 - qtz vein 15 cm thick - rusty	grab		0.005	0.02	6					
73644	Vein No. 4 - qtz siderite vein - no visible sul-	chip	20 cm	0.002	0.02	4					
	phides (brown c.gr. siderite) strike 130°/vert or										
	high angle dipping to south. Altimeter 4360'										
73654	Dk brown weathered, v.f. grained, siliceous,	chip	2 m?	0.001	0.02	4					M. Savel
	metasstn or felsite intrusive(?), massive, blocky										
	pale grey to brown with finely disseminated py										
	(flag at site marked 14-1)										
73655	Dk green and white speckled, f.gr. hbl diorite,	chip	~4 m	0.001	0.02	30					
	with irregular network of fine qtz veinlets, several										
	orientations. Several intrusive phases present (%										
	hbl changes abruptly, brecciated appearance).										
	Rubbly outcrop. (flag marked 14-2)										
73656	Chips from float boulders in talus bank adjacent	float	?	0.001	0.02	6					
	to gully - source close by. Grey-green finely										
	crystalline calcite + calc-silicates with thin, paralleling										
	qtz veinlets (20-30%), minor dissem. py, in talus of										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
73656	hbl diorite, rusty weathered. (flag marked 14-3)										M. Savell
73657	15 m from above sample, also talus chips - similar skarny material with abundant bright green mica, minor py, rare sph, minor calcite veinlets. (flag marked 14-4).	float	?	0.001	0.02	2					
73658	Chips from pale green, v.f.gr., siliceous, massive felsic intrusive or metased-volc(?) with minor v.f. dissem. py. (flag marked 14-5)	grab		0.001	0.02	4					
73659	Rubbly, poorly exposed, heavy limonitic stained, qtz vein material - should be trenched if mineralized. (flag marked 14-6)	chip	0.5 m	0.019	0.02	32					
73660	Highly weathered, limonitized, rusty qtz vein boulders in talus slope, possibly extension of above vein, source close by. (flag marked 14-7)	grab		0.400	0.28	1000					
73661	3 m from above. Boulders in talus slope of friable weathered qtz with abundant malachite and manganese(?) coating, assoc. with boulders as above, close to source(?). (flag marked 14-8)	grab		0.001	0.02	17000					
73662	Chips from talus boulders, similar to sample #73656. (flag marked 14-9).	float		0.001	0.04	118					
73663	Chips from talus boulders, 20-30 cm in diameter, of v. rusty weathered qtz, in glacial moraine - surrounding rocks predominantly diorite. (flag marked 14-10)	float		0.620	0.30	1040					

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
73664	Chips from boulders in moraine of green, calc-sili-	float		0.050	0.06	1360					M. Savell
	cate skarn, similar to 73656, with 1% chalcopyrite										
	in blebs, disseminations. (flag marked 14-11)										
73674	Diorite - rusty weathered, weakly silicified(?),	float		0.004	0.02	152					
	diorite or qtz-diorite with 5-10% fracture and										
	cluster pyrite. Float in gully.										
73701	KR-11 claim. Diorite? with about 3% pyrite along	grab		0.003	0.02	200					G.B.
	fractures. Diorite? weakly to moderately (to locally										
	strongly) fractured. Forms approx. at least 150 m										
	wide zone of very rusty weathering rock. Diorite?										
	with same degree of alteration as diorite? without										
	fracture/pyrite. Pyrite is very, very fine gr.,										
	anhedral and forms patches along fracture surfaces										
	and along micro-fractures bordering fractures, locally										
	with minor, very fine grained chalcopyrite in fine										
	patches and minor irregular patches of very, very fine										
	grained pyrrhotite.										
73702	KR-6 claim, northeast. Granodiorite? cobble with	grab/ float		0.002	0.02	14					
	30-40%, medium rusty orange-stained feldspar crystals.										
	5x10x11 cm, sub-angular cobble, from talus in ter-										
	minal moranine, of feldspar-quartz-hornblende-grano-										
	diorite?.										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	(opt) Au	(opt) Ag	(ppm) Cu	ASSAYS				SAMPLED BY
73703	West of NW corner of KR-1 claim 1.05 km. Cobble	grab/ float		0.001	0.10	1900					G.B.
	of arsenopyrite? in limestone replacement? breccia.										
	Sub-angular cobble, 7x8x13 cm, from erosional rem-										
	nant of lateral? moraine?. Approx. 75% medium										
	rusty orange-stained, very, very fine grained										
	limestone, angular fragments to 4x7 cm, with 25%										
	matrix of weakly magnetic, lustrous steel-grey, very,										
	very fine grained arsenopyrite (and pyrrhotite?) (soft										
	and with black streak), with 1-2% patches to 3x8 mm										
	of very, very fine grained chalcopyrite, with about										
	10-20% matrix of clear grey to white, very, very fine										
	to fine grained quartz?. Limestone fragments may										
	form autobreccia; fragments with criss-crossing										
	fractures filled with 0.1 to 8 mm thick filling of										
	arsp?. Limestone fragments weather very light buff;										
	arspy? matrix weathers very dark rusty (orange-)										
	brown.										
73704	KR-11 claim, southwest corner. Cobble (6x6x9 cm	grab/ float		0.001	0.02	8					
	angular) of "bull" quartz (vein type) with about										
	15% rusty orange staining (on fractures). From										
	terminal moraine of feldspar-hornblende-(quartz-										
	(apitite?-))quartz diorite?										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
73705	Same as 73704. Sub-angular cobble (7x8x23 cm) of pyrrhotitic apalite?: very rusty weathering, medium (green-)grey, very, very fine grained, very hard, apalite? with about 10%, very, very fine to very fine (to fine) grained, disseminated pyrrhotite.	grab/ float		0.001	0.02	188					G.B.
73706	Same as 73704. Cobble (sub-rounded, 12x13x20 cm) of siderite?: medium to dark rusty orange weathering, fine to very coarsely crystalline siderite? with 3%, light green, altered rock inclusions.	grab/ float		0.001	0.02	2					
81807	Felsic rock - cut by numerous narrow (1 mm) qtz veins, no visible sulphides. Subhedral muscovite crystals.	float	8.5 x 5 cm	0.002	0.02	22					
81808	Calcite vein; unknown host rock. The calcite is subhedral, v. coarse to coarse grained. Thin (1 mm) 'seam' of greenish mn/(epidote?) parallel to the "major" orientation of the vein.	float	6 x 4.3 cm	0.001	0.02	14					
81809	2 cm wide qtz feldspar biotite vein in a mafic rich micro-diorite(?). Creamy white colour - no visible sulphides. ~5% c.gr. euhedral biotite crystals.	grab		0.001	0.02	46					
81810	Grey chert horizon - nodular form cemented together by chert of the same colour.	grab		0.001	0.02	10					
81811	Rusty clay altered v. sheared qtz vein. No visible sulphides.	o/c chip	20 cm	0.001	0.02	46					

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS (opt) Au	(opt) Ag	(ppm) Cu					SAMPLED BY
81814	Med. grey coloured calcite vein in micro-diorite.	float	5x3x 2 cm	0.001	0.02	14					SAM/JAF
	Sugary texture.										
81815	Drk. green grey fresh + wthrd coloured basalt with	grab		0.001	0.02	16					
	2% pyrite - the pyrite occurs as 1 mm sub to euhedral										
	cubes usually located along planar surfaces. These										
	surfaces are also marked by qtz.										
81817	Drk. green grey basalt with 2% py.	grab		0.001	0.02	12					
81818	Med. green brown andesite(?) with 1% pyrrhotite.			0.001	0.02	12					
81820	Drk. grey black conglomerate with 2% pyrite in			0.002	0.02	36					
	matrix; rounded + angular clasts (intrusive) with										
	siliceous matrix.										
81823	Ankerite altered qtz vein float.			0.001	0.02	8					
96476	Quartz vein - typical, in foliated, xenolithic	chip	2 m	0.001	0.02	16					JH/AF
	diorite host, altered near vein. 25 m higher in										
	elevation than sample #41449, same vein.										
96477	Quartz vein - same vein, 25 m higher in elev. than	grab		0.001	0.02	12					
	#96476. Partly snow, ice covered on vein.										
96478	Quartz vein - same vein, 25 m higher in elev. than	grab		0.001	0.02	12					
	#96477. Partly snow, ice covered.										
96479	Quartz vein - same vein, 25 m higher than 96478,	grab		0.001	0.02	4					
	partly snow, ice covered.										
96480	Quartz vein - same vein, 25 m higher than 96479,	grab		0.001	0.02	58					
	partly snow, ice covered.										

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 114 P/7-10

PROPERTY KLEHINI RIVER

DATE Sept. 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	(opt) Au	(opt) Ag	(ppm) Cu	ASSAYS				SAMPLED BY
96481	Quartz vein - same vein, 25 m higher than 96480,	chip	4 m	0.001	0.02	14					J.H./A.F.
	good exposure, near cliff top.										
96482	Quartz vein - typical	chip	?	0.001	0.02	6					
96483	Quartz vein - typical	chip	?	0.028	0.02	114					
96484	Quartz vein - typical	chip	?	0.001	0.02	98					
96485	Quartz vein - typical	chip	?	0.044	0.02	446					
96486	Quartz vein - typical	chip	?	0.002	0.02	50					
	Samples from same vein, outcrops under hanging										
	glacier. Sampled quickly, no accurate measurement										
	taken - site very dangerous!! Average thickness										
	1-2 m.										
96487	Granodiorite, Feldspar porphyry - 10 m below 96488	chip	2 m	0.001	0.02	28					
	in same vertical gully, no vein material visible.										
96488	Quartz vein - in vertical gully, 10 m above 96487	grab		0.001	0.02	6					
96489	Quartz vein - in vertical gully, 10 m above 96488	grab		0.001	0.02	4					
96490	Quartz vein - at top of vertical gully in cliff	chip	2.5 m	0.001	0.02	2					
	face, 15 m above 96489.										

APPENDIX H

ASSAY RESULTS

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENU
BURNABY, B.C. V5B 3N
TEL : (604) 299 - 691

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.

PROJECT: 676 8509-072
TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 85378.A
INVOICE#: 5587
DATE ENTERED: SEPT.27,1985
FILE NAME: NOR85378.A
PAGE # : 1

PRE FIX	SAMPLE NAME	oz/t Au	oz/t Ag
A	41344	0.001	0.02
A	41345	0.001	0.02
A	41426	0.001	0.02
A	41427	0.370	0.02
A	41428	0.004	0.02
A	41429	0.001	0.02
A	41430	0.010	0.02
A	41431	0.040	0.02
A	41432	0.002	0.02
A	41433	0.036	0.02
A	41434	0.006	0.02
A	41435	0.930	0.06
A	41436	2.160	0.16
A	41437	0.032	0.02
A	41438	0.550	0.04
A	41439	0.045	0.02
A	41440	0.001	0.02
A	41441	0.002	0.02
A	41442	0.092	0.02
A	41443	0.008	0.02
A	41444	0.010	0.02
A	41445	0.001	0.02
A	41446	0.001	0.02
A	41447	0.001	0.02
A	41448	0.001	0.02
A	41449	0.017	0.68
A	41450	0.001	0.02
A	69962	0.001	0.02
A	69963	0.001	0.02
A	69964	0.001	0.02
A	69965	0.001	0.02
A	69966	0.001	0.02
A	69967	0.001	0.02
A	69968	0.001	0.02
A	69969	0.001	0.02
A	69970	0.001	0.02
A	69971	0.001	0.02
A	69972	0.040	0.24
A	69973	0.001	0.02
A	69974	0.001	0.08

CERTIFIED BY : F. Rossbacher

27/09cc MS - W.M DP

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.
PROJECT: 676 8509-072
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 85378
INVOICE#: 5587
DATE ENTERED: SEPT.27,1985
FILE NAME: NOR85378
PAGE # : 3

PRE FIX	SAMPLE NAME	PPM Cu
A	73632	12
A	73633	6
A	73634	4
A	73635	38
A	73636	52
A	73637	28
A	73638	66
A	73639	12
A	73640	12
A	73641	8
A	73642	14
A	73643	6
A	73644	4
A	73654	4
A	73655	30
A	73656	6
A	73657	2
A	73658	4
A	73659	32
A	73660	1000
A	73661	17000
A	73662	118
A	73663	1040
A	73664	1360
A	73701	200
A	81807	22
A	81808	14
A	81809	46
A	81810	10
A	81811	46
A	81814	14
A	81815	16
A	81817	12
A	81818	12
A	81820	36
A	81823	8
A	96476	16
A	96477	12
A	96478	12
A	96479	4

CERTIFIED BY : R. Rossbacher

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.

PROJECT: 676 8509-072
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 85378
INVOICE#: 5587
DATE ENTERED: SEPT.27,1985
FILE NAME: NOR85378
PAGE # : 4

PREFIX	SAMPLE NAME	PPM Cu
A	96480	58
A	96481	14
A	96482	6
A	96483	114
A	96484	98
A	96485	446
A	96486	50

CERTIFIED BY : A. Rossbach

85/0-001

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENU
BURNABY, B.C. V5B 3I
TEL : (604) 299 - 69

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.

PROJECT: 676 8510-[redacted].007
TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 85396
INVOICE#: 5609
DATE ENTERED: OCT.4,1985
FILE NAME: NOR85396
PAGE # : 1

PRE FIX	SAMPLE NAME	oz/t Au	oz/t Ag	PPM Cu
A	41346	0.001	0.02	428
A	41347	0.001	0.02	440
A	41348	0.001	0.02	68
A	41349	0.001	0.02	14
A	41350	0.001	0.02	12
A	41425	0.001	0.02	2
A				
A				
A				
A				
A				
A				
A				
A				
A				
A				
A	73674	0.004	0.02	152
A	73702	0.002	0.02	14
A	73703	0.001	0.10	1900
A	73704	0.001	0.02	8
A	73705	0.001	0.02	188
A	73706	0.001	0.02	2
A	96487	0.001	0.02	28
A	96488	0.001	0.02	6
A	96489	0.001	0.02	4
A	96490	0.001	0.02	2

CERTIFIED BY : Rossbach

cc M.S. N.M. J.P.

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: Atlin-Alsek CODE :8508-034

Project No. : 370 Sheet:1 of 2 Date rec'd:Aug. 7
Material :S&S, Rx Geol.:M.S. Date compl:Aug. 30
Remarks :

Values in PPM, except where noted.

T. T. No.	SAMPLE No.	Cu	Zn	Pb	Ag	Mo	PPB Au
69	ROCK 41329	16	10	16	0.4	90	1000
70	41330	14	20	8	1.2	180	5800
71	41331	8	70	4	0.6	1	10
72	41332	12	30	36	0.6	1	10
73	41337	10	50	8	0.4	1	10

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENU
BURNABY, B.C. V5B 3H
TEL : (604) 299 - 691

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.

PROJECT: 676 8509-072
TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 85378.A
INVOICE#: 5587
DATE ENTERED: SEPT.27,1985
FILE NAME: NOR85378.A
PAGE # : 2

PRE FIX	SAMPLE NAME	oz/t Au	oz/t Ag
A	69975	0.001	0.02
A	70101	0.001	0.02
A	70102	0.001	0.02
A	70103	0.001	0.02
A	70104	0.001	0.02
A	70151	0.001	0.02
A	70152	0.005	0.02
A	70153	0.002	0.02
A	70154	0.001	0.02
A	70155	0.002	0.02
A	70156	0.008	0.02
A	70157	0.001	0.02
A	70158	0.001	0.02
A	70159	0.001	0.02
A	70160	0.001	0.02
A	70161	0.001	0.02
A	70162	0.002	0.02
A	70163	0.001	0.02
A	70164	0.001	0.02
A	70165	0.009	0.02
A	70166	0.310	0.28
A	70167	0.005	0.02
A	70168	0.056	0.02
A	70169	0.001	0.02
A	70170	0.002	0.02
A	70171	2.440	0.86
A	70172	0.035	0.04
A	70173	0.339	0.16
A	70175	0.001	0.02
A	73617	0.001	0.02
A	73618	0.001	0.02
A	73619	0.001	0.02
A	73620	0.001	0.02
A	73621	0.015	0.02
A	73622	0.002	0.02
A	73623	0.001	0.02
A	73624	0.001	0.02
A	73629	0.010	0.02
A	73630	0.048	0.02
A	73631	0.100	0.02

CERTIFIED BY : F. Rossbacher

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENU
BURNABY, B.C. V5B 3N
TEL : (604) 299 - 691

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.
PROJECT: 676 8509-072
TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 85378.A
INVOICE#: 5587
DATE ENTERED: SEPT.27,1985
FILE NAME: NOR85378.A
PAGE # : 3

PRE FIX	SAMPLE NAME	oz/t Au	oz/t Ag
A	73632	0.001	0.02
A	73633	0.001	0.02
A	73634	0.001	0.02
A	73635	0.001	0.02
A	73636	0.001	0.02
A	73637	0.003	0.08
A	73638	0.009	0.10
A	73639	0.004	0.02
A	73640	0.001	0.02
A	73641	0.044	0.02
A	73642	0.040	0.02
A	73643	0.005	0.02
A	73644	0.002	0.02
A	73654	0.001	0.02
A	73655	0.001	0.02
A	73656	0.001	0.02
A	73657	0.001	0.02
A	73658	0.001	0.02
A	73659	0.019	0.02
A	73660	0.400	0.28
A	73661	0.001	0.02
A	73662	0.001	0.04
A	73663	0.620	0.30
A	73664	0.050	0.06
A	73701	0.003	0.02
A	81807	0.002	0.02
A	81808	0.001	0.02
A	81809	0.001	0.02
A	81810	0.001	0.02
A	81811	0.001	0.02
A	81814	0.001	0.02
A	81815	0.001	0.02
A	81817	0.001	0.02
A	81818	0.001	0.02
A	81820	0.002	0.02
A	81823	0.001	0.02
A	96476	0.001	0.02
A	96477	0.001	0.02
A	96478	0.001	0.02
A	96479	0.001	0.02

CERTIFIED BY : A. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVEN
BURNABY, B.C. V5B 3
TEL : (604) 299 - 69

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.

PROJECT: 676 8509-072
TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 85378.A
INVOICE#: 5587
DATE ENTERED: SEPT.27,1985
FILE NAME: NOR85378.A
PAGE # : 4

PRE FIX	SAMPLE NAME	oz/t Au	oz/t Ag
A	96480	0.001	0.02
A	96481	0.001	0.02
A	96482	0.001	0.02
A	96483	0.028	0.02
A	96484	0.001	0.02
A	96485	0.044	0.02
A	96486	0.002	0.02

CERTIFIED BY : R. Rossbacher

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.

PROJECT: 676 8509-072
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 85378
INVOICE#: 5587
DATE ENTERED: SEPT.27,1985
FILE NAME: NOR85378
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu
A	41344	6
A	41345	6
A	41426	8
A	41427	8
A	41428	36
A	41429	10
A	41430	16
A	41431	4
A	41432	4
A	41433	4
A	41434	12
A	41435	10
A	41436	68
A	41437	18
A	41438	4
A	41439	8
A	41440	52
A	41441	10
A	41442	6
A	41443	6
A	41444	8
A	41445	32
A	41446	4
A	41447	4
A	41448	46
A	41449	14000
A	41450	46
A	69962	20
A	69963	10
A	69964	62
A	69965	56
A	69966	8
A	69967	38
A	69968	4
A	69969	4
A	69970	4
A	69971	4
A	69972	16
A	69973	4
A	69974	16

CERTIFIED BY : M. Rossbacher

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.

PROJECT: 676 8509-072
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 85378
INVOICE#: 5587
DATE ENTERED: SEPT.27,1985
FILE NAME: NOR85378
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu
A	69975	18
A	70101	4
A	70102	2
A	70103	6
A	70104	20
A	70151	4
A	70152	8
A	70153	8
A	70154	10
A	70155	8
A	70156	6
A	70157	4
A	70158	4
A	70159	12
A	70160	80
A	70161	422
A	70162	266
A	70163	50
A	70164	352
A	70165	282
A	70166	244
A	70167	74
A	70168	18
A	70169	224
A	70170	42
A	70171	494
A	70172	22
A	70173	50
A	70175	10
A	73617	16
A	73618	60
A	73619	72
A	73620	12
A	73621	6
A	73622	22
A	73623	112
A	73624	114
A	73629	10
A	73630	12
A	73631	8

CERTIFIED BY : A. Rossbacher

APPENDIX I: TALUS FINES NUMBERING

Number on Flag at Sample Site	Corresponding Number on Sample Location Map
100+00E	70551
100+25E	70552
100+50E	70553
100+75E	70554
101+00E	70555
101+25E	70556
101+50E	70557
101+75E	70558
102+00E	70559
102+25E	70560
102+50E	70561
102+75E	70562
103+00E	70563
103+25E	70564
103+50E	70565
103+75E	70566
104+00E	70567
104+25E	70568
104+50E	70569
104+75E	70570
105+00E	70571
105+25E	70572
105+50E	70573
105+75E	70574
106+00E	70575
106+25E	70576
106+50E	70577
106+75E	70578
107+00E	70579
107+25E	70580
109+75E	70581
110+00E	70582
110+25E	70583
110+50E	70584
110+75E	70585
111+00E	70586
111+25E	70587
111+50E	70588
111+75E	70589
112+00E	70590
113+00E	70591
113+25E	70592
113+50E	70593
113+75E	70594

114+00E	70595
114+25E	70596
114+50E	70597
114+75E	70598
115+00E	70599
115+25E	70600
115+50E	70601
115+75E	70602

Line 16

16-1	70603
16-2	70604
16-3	70605
16-4	70606
16-5	70607
16-6	70608
16-7	70609
16-8	70610
16-9	70611
16-10	70612
16-11	70613
16-12	70614
16-13	70615
16-14	70616
16-15	70617
16-16	70618
16-17	70619
16-18	70620
16-19	70621
16-20	70622
16-21	70623
16-22	70624
16-23	70625
16-24	70626
16-25	70627
16-26	70628
16-27	70629
16-28	70630
16-29	70631
16-30	70632
16-31	70633
16-32	70634
16-33	70635
16-34	70636
16-35	70637
16-36	70638
16-37	70639
16-38	70640
16-39	70641
16-40	70642

16-41	70643
16-42	70644
16-43	70645
16-44	70646
16-45	70647
16-46	70648
16-47	70649
16-48	70650
16-49	70651
16-50	70652
16-51	70653
16-52	70654
16-53	70655
16-54	70656
16-55	70657
16-56	70658
16-57	70659
16-58	70660
16-59	70661
16-60	70662
16-61	70663
16-62	70664
16-63	70665
16-64	70666
16-65	70667
16-66	70668
16-67	70669
16-68	70670
16-69	70671
16-70	70672
16-71	70673
16-72	70674
16-73	70675
16-74	70676
16-75	70677
S-1	73595
S-2	73596

Line 17

17-1	70678
17-2	70679
17-3	70680
17-4	70681
17-5	70682
17-6	70683
17-7	70684
17-8	70685
17-9	70686

17-10	70687
17-11	70688
17-12	70689
17-13	70690
17-14	70691
17-15	70692
17-16	70693
17-17	70694
17-18	70695
17-19	70696
17-20	70697
17-21	70698
17-22	70699
17-23	70700
17-24	70701
17-25	70702
17-26	70703
17-27	70704
17-28	70705
17-29	70706
17-30	70707
17-31	70708
17-32	70709
17-33	70710
17-34	70711
17-35	70712
17-36	70713
17-37	70714
17-38	70715
17-39	70716