MAP NO.	ASSESSMENT REPORT	X	DOCUMENT NO.: 092634
	PROSPECTUS		MINING DISTRICT:Whitehorse
	CONFIDENTIAL	X	TYPE OF WORK:Geochemical, diamond, rotary drill.
105 K 2	OPEN FILE		

REPORT FILED UNDER: Noranda Exploration Co. Ltd

DATE PERFORMED: 13 January-21 September, 1988 DATE FILED: 19 January, 1989

LOCATION: LAT.: 62 03'N AREA: Faro

LONG.:132 50'W VALUE $: 26 000.00

CLAIM NAME & NO.: CANYON 1-356 (YA75719-60, YA081160-341, YA085398-425, YA092146-341;)
GRAND 1-162 (YA081848-95, YA08524-397)

WORK DONE BY: J. Duke

WORK DONE FOR: Noranda Exploration Co. Ltd

DATE TO GOOD STANDING		REMARKS: #88 GREW CREEK
		In 1988 30 HQ holes totalling 13 156.5 m were drilled in the
		MAIN zone, 10 more diamond holes totalling 3045 m tested the
		TARN zone and 12 rotary holes totalling 1448 m were drilled near
		Rat Creek between the MAIN and Tarn zones.

RECEIVED
JAN 18 1989
MINING
RECORDERS OFFICE
WHITEHORSE, Y.T.

OFFICE OF THE REGISTRAR
MINERAL RIGHTS
JAN 19 1989
WHITEHORSE
YUKON TERRITORY

NORANDA EXPLORATION COMPANY, LIMITED

GREW CREEK DEVELOPMENT PROJECT

REPORT ON 1988 EXPLORATION ACTIVITIES ON THE CANYON AND GRAND CLAIMS

NTS: 105 K/2

WHITEHORSE MINING DISTRICT

LATITUDE: 62 03'N

LONGITUDE: 132 50'W

AUTHOR: J. DUKE

NOVEMBER, 1988

092634

This report has been examined by the Geological Evaluation Unit under Section 53.(4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $26,000.00

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

092634

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SUMMARY

The Grew Creek Property consists of 332 claims, located between Ross River and Faro in the Yukon Territory along the Robert Campbell Highway, which were optioned from Al Carlos in May 1987.

The Grew Creek showing consists of epithermal style gold and silver mineralization hosted in Eocene felsic ignimbrite which is preserved in a graben in Tintina Trench. The trench is a major northwest trending structure with extensive Late Cretaceous and Tertiary right-lateral displacement. Mineralization at Grew Creek occurs in the Main Zone which is located at the intersection of a major north-trending structure within the Tintina Trench.

Between June 1987 and September 1988 19,173 metres of diamond drilling and 1,651 metres of reverse circulation drilling were completed on the Main and Tarn Zones. Diamond and reverse circulation drilling on the Main Zone consisted mainly of definition drilling to outline the extent of the gold and silver mineralization. Drilling on the Tarn Zone and between the Tarn and Main Zones was exploratory. Fences across favourable geology and specific geophysical targets were drilled.

500 soil samples were collected on selected parts of the Tarn Zone in areas of specific interest. 235 metres of trenching was completed northeast of the Tarn Zone to expose minor gold mineralization in outcrop.

Extensive ground-based magnetometre and I.P surveys were conducted in the area of the Tarn and Main Zones.

The extent of mineralization on the Main Zone is defined to the east. To the west the zone has been truncated by faulting. Additional drilling toward the west is warranted to test for additional mineralization.

Drill results from the Tarn Zone were disappointing.

CHAPTER ONE: INTRODUCTION

1-1: Introductory statement

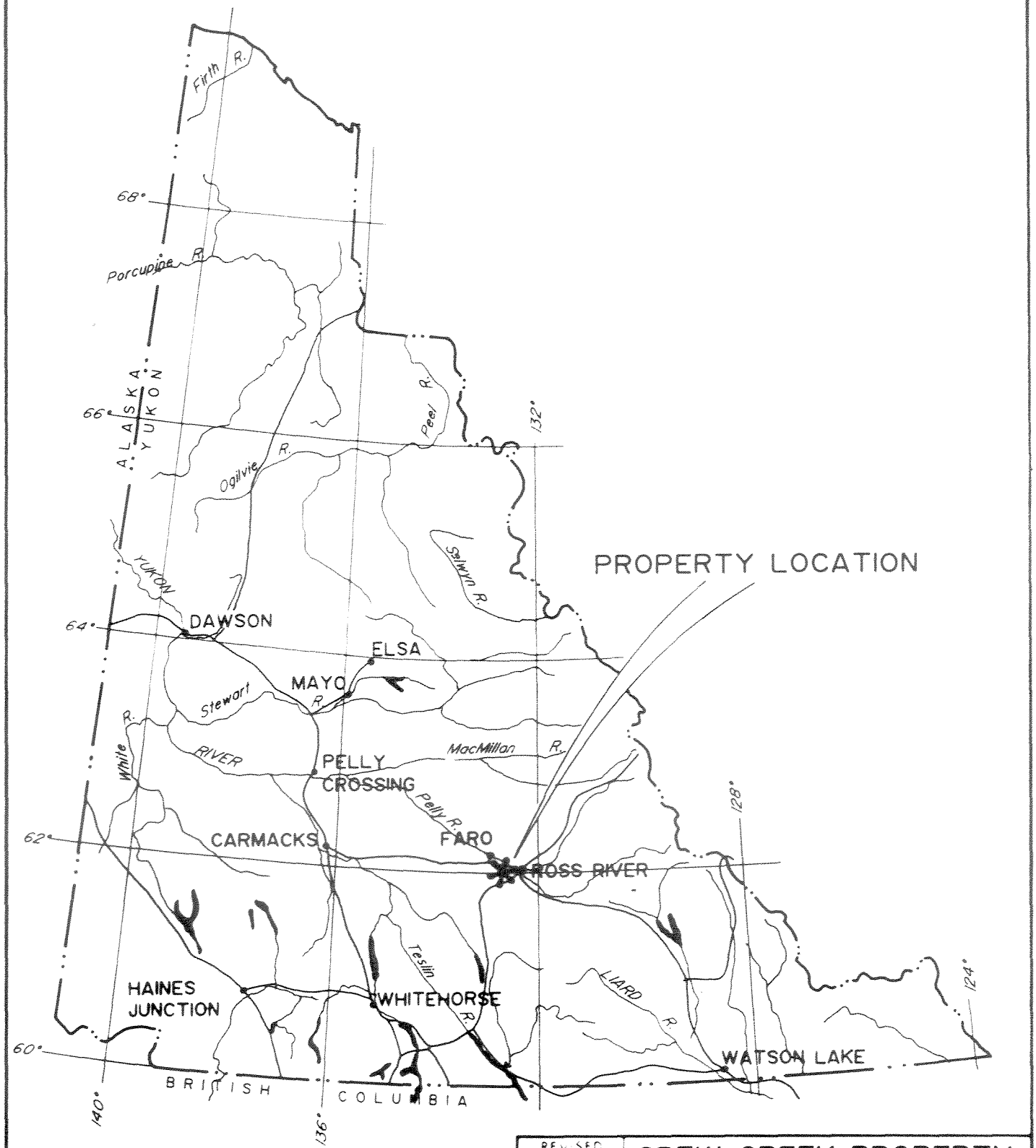
The Grew Creek property consists of 332 claims which were optioned from Mr. Allen Carlos in May 1987. Work began on the property in early June of 1987 as part of a joint venture agreement between Golden Nevada Resources Inc. and Noranda Exploration Company Ltd., with Noranda acting as operator.

Drill results in the fall of 1987 were very encouraging. Therefore drilling on the property was continued until the end of August, 1988. In total, 19,173.6 metres of diamond drilling and 1,651.1 metres of reverse circulation drilling were completed by Noranda between June 1987 and September 1988.

All of the drilling was focused on mineralization in the Main Zone and on the Tarn Zone. Intensive ground geophysical surveys were conducted over these areas in the fall of 1987 and during the 1988 program. The 1987 soil geochem coverage was extended locally into areas of interest during the 1988 season. Three trenches were cut to expose gold mineralization in outcrop at the edge of the property northeast of the Tarn Zone.

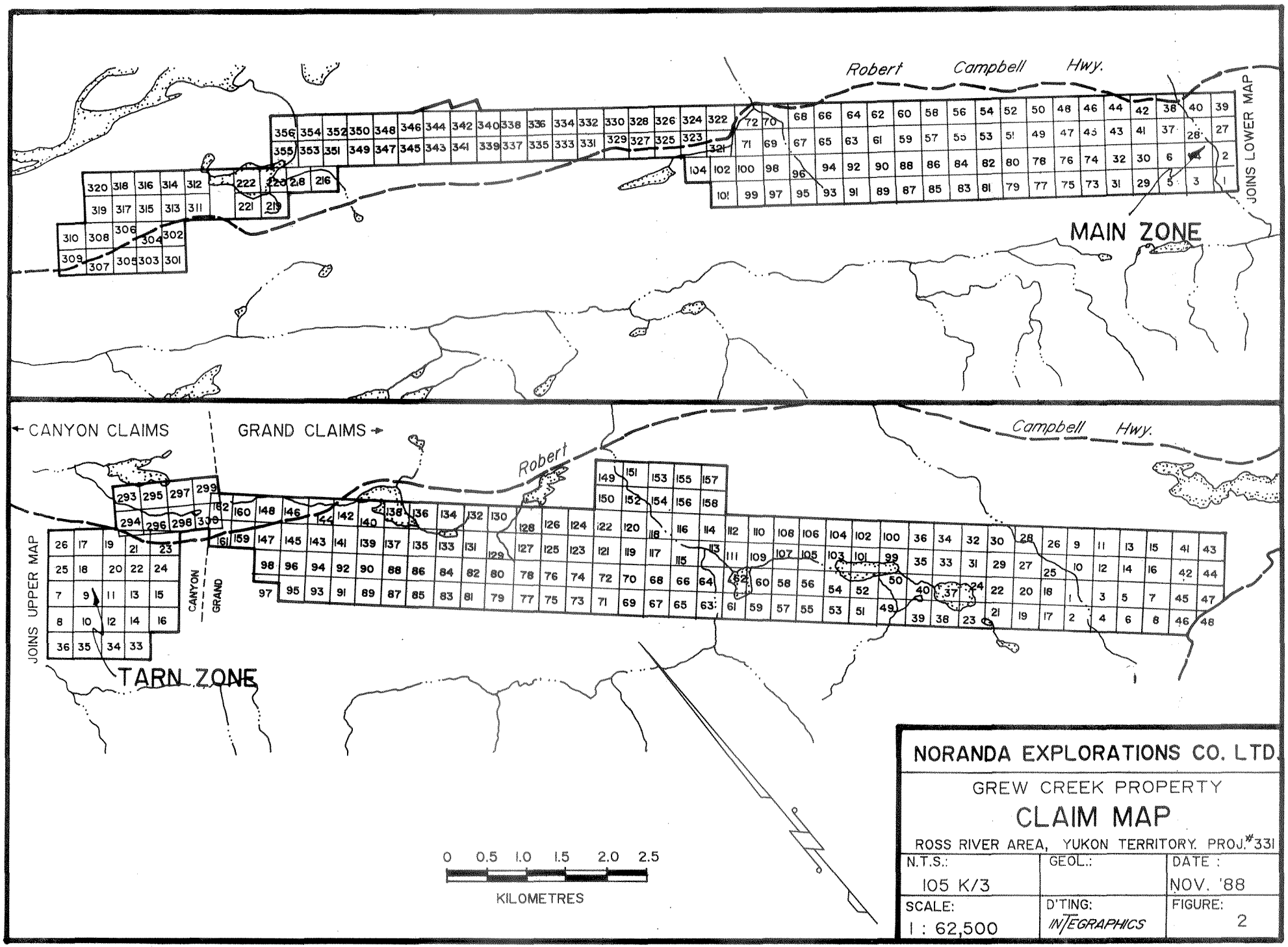
This report summarizes the work done on the property during 1988. The results of diamond drill holes NGC88-34, NGC88-36, NGC88-72 and NGC88-75 and soil geochemistry are included in detail.

1-2: Location and Access



REVISED	GREW CREEK PROPERTY
	GENERAL LOCATION MAP
	ROSS RIVER AREA YUKON TERRITORY
PROJECT No. 331	DRAWN BY: DATE: NOV. '88
N.T.S. 105K/2	CHECKED BY: SCALE: 1"=100 miles
DWG No. 1	**NORANDA EXPLORATION** OFFICE WHITEHORSE

VANCAL 1192



NORANDA EXPLORATIONS CO. LTD.

GREW CREEK PROPERTY

CLAIM MAP

ROSS RIVER AREA, YUKON TERRITORY. PROJ.#331

N.T.S.:	GEOL.:	DATE :
105 K/3		NOV. '88
SCALE:	D'TING:	FIGURE:
1 : 62,500	INTEGRAPHICS	2

The property forms a 31km long narrow belt of claims that follows the Robert Campbell Highway between the South Canol road (7km south of Ross River and Buttle Creek (10km east of Faro (see NTS 105 K/2, 105 K/3, and 105 F/15) centred on Latitude 62 03'N, Longitude 132 50'W (see Figures 1 and 2). Several two and four-wheel-drive roads access portions of the property off the highway. A Powerline connecting Ross River to the main grid from Whitehorse passes parallel to the highway through the claim block.

The Main zone (site of original discovery and primary focus of drilling) is located 500 metres west of Grew Creek, 1 kilometre south of the Robert Campbell Highway, and 25km west of Ross River. An all-weather 2-wheel drive dirt road leads from the highway to the showing. An extensive network of 4-wheel-drive roads cover the property between the Main and Tarn zones.

1-3: Physiography and Vegetation

The claims lie along the southwestern border of the Tintina Trench. The trench forms a major physiographic depression which is the northern extension of the Rocky Mountain Trench in British Columbia. It extends from Watson Lake north through Grew Creek and Dawson City, and past Eagle in Alaska.

On the property topography is characterized by low rolling glacial features (Drumlins, moraines, kames and kettles) of low relief. There are numerous small lakes throughout the property. Drainage is primarily from southwest to northeast into the Pelly River via Buttle, Danger, and Grew Creeks and the Lapie River on

the southern margin of the property. Outcrop is rare except along Grew and Danger Creeks. Grew Creek forms a canyon with up to 70 metres of relief near the Main Zone.

A fire in the late sixties left the ground littered with sparse deadfall and by a young second growth forest of aspen, birch, willow, pine, and fir.

1-4: History of the Claims and Previous Exploration

In 1965 the Tarn area was staked by General Enterprises as part of a local staking rush that accompanied the discovery the the Anvil base metal deposits to the north. By 1967 the Robert Campbell highway provided access through the area. EM and IP surveys were conducted in 1967 and 1968 and three diamond drill holes (354m) were completed in 1968. In the early 1980s placer gold was found on Grew Creek by local prospectors. The subsequent small-scale placer activity attracted the interest of Al Carlos in 1983. At that time he found the mineralized outcrop that lies over the main zone and staked the Canyon 1-40 claims to cover the showing. Between 1983 and 1985 the Canyon 41 to 256 and the Grand 1 to 162 were staked to cover favorable ground. Hudson Bay signed an option agreement on November 30, 1983. Over the next three years they conducted numerous geophysical, geochemical and geological surveys, trenching, 1,732 metres of diamond drilling in 13 holes, and 1,660 metres of rotary drilling in 19 holes. The trenching and drilling was restricted to the Main and Tarn zones. Hudson Bay dropped the option in January, 1987 and a new agreement was signed with Noranda Exploration Company

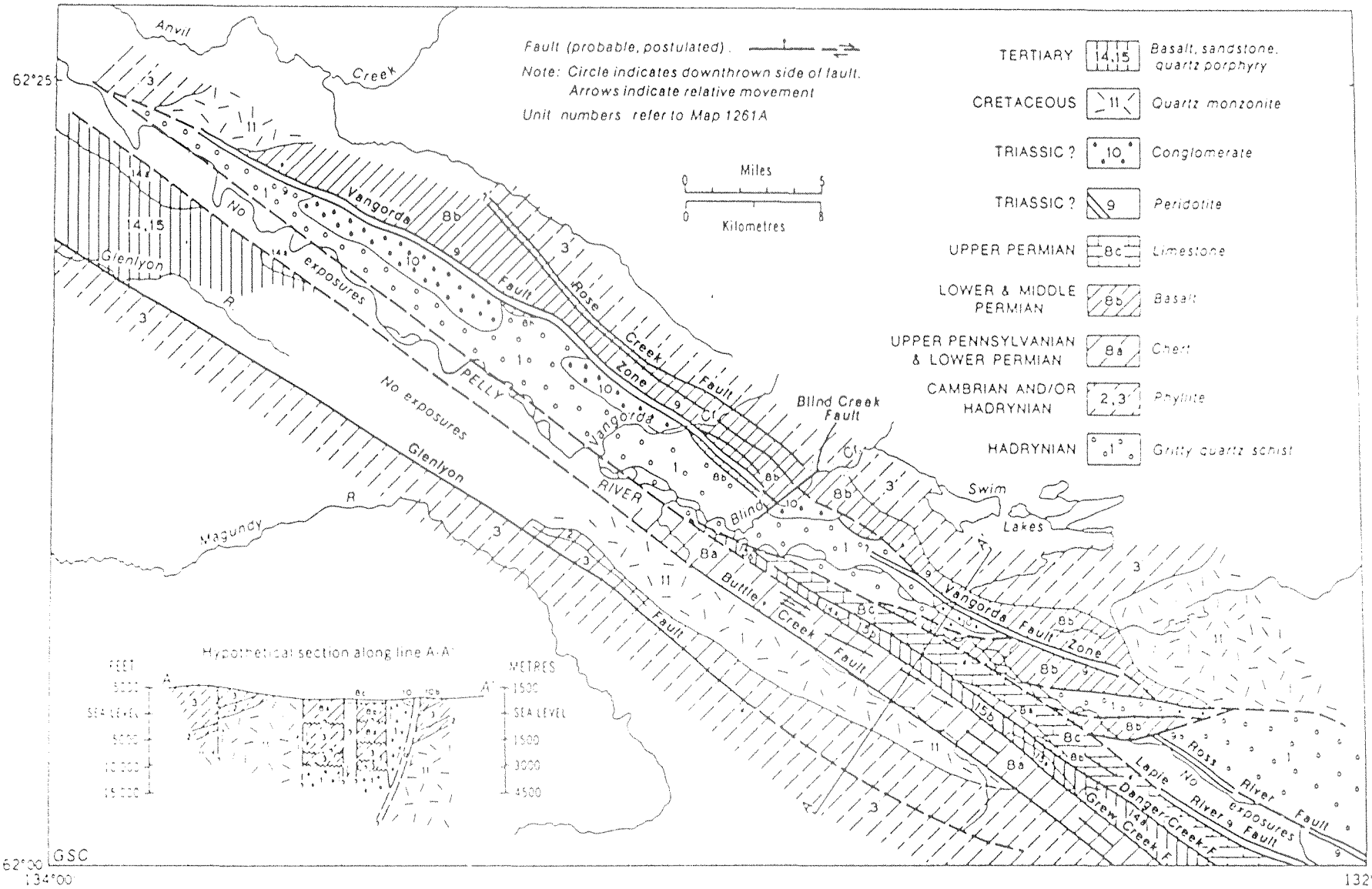


FIGURE Sketch map of faults along Tintina Trench.

(taken from Tempelman-Kluit, 1972)

Limited in June 1987. Tenore Resource Corporation and Skena Resources Ltd.(amalgamated in 1987 as Golden Nevada Resources) earned a 50% interest in the property by funding the 1987 and 1988 exploration programs under the terms of an option agreement effective on June 6, 1987.

Current claim status is listed in Appendix IV.

1-5: Work Program

Continued definition drilling of the mineralization on the Main Zone was the focus of much of the program. Later in the season the emphasis shifted to testing for other mineralized zones in the area. The main activities of the season are summarized below.

January 13: E. Caron Diamond Drilling Ltd. of Whitehorse moved two diamond drills onto the property. Shortly thereafter a Schramm reverse circulation drill was added. Definition drilling on the Main zone at approximately 25 by 30 metre spacing was continued with hole 31. The Schramm drill was used to run casing to bedrock. Variously a D-6 or D7E Catapillar bulldozer, supplied by E. Caron, was on the propery to service the drills.

January 13 to May 12: The Main and Tarn zone grids are extended in selected areas of interest and intensive ground magnetometre and I.P. surveys are completed.

May 17: The Schramm drill moves to the Tarn Zone

to begin casing to bedrock future collar locations there.

May 20: Trench 1 in the southeast corner of the Tarn zone grid is cut by a D-7E bulldozer is cut. One diamond drill is moved from the Main Zone to the Tarn Zone.

May 24: Consultants from Noramco arrive to begin a program of environmental testing on Grew Creek.

July 14: The Schramm drill returns to begin reverse-circulation drill testing between the Main and Tarn Zones.

July 16: The definition drilling program is finished with the completion of hole 87. This drill leaves the property

August 7: The diamond drill in the Tarn Zone completes its' program with hole 90 and leaves the property.

August 10: Two more trenches are cut by a D-6 bulldozer in the southeast corner of the Tarn Zone.

August 21: The Schramm drill completes hole RC32 and leaves the property.

August 21 to September 21: A backlog of reverse circulation samples are processed. Trench sampling is completed. Soil geochemistry and ground magnetometre data is collected on recent grid extensions. The camp is closed for the winter.

The following contractors supplied services in the field:

1) E. Caron Diamond Drilling of Whitehorse, Yukon

provided all drill services and heavy equipment used on the property.

2) White Ram Contracting of Ross River Yukon provided occasional camp support.

3) Peter E. Walcott & Associates of Coquitlam, B.C. provided the ground geophysical data.

4) Gordon Clark and Associates of Whitehorse, Yukon provided linecutting services.

The following Noranda personnel worked directly on the project during the 1988 field season:

Hugh Copland:	Project Geologist, Whitehorse Office
Dennis Bull:	Project Geologist
Chris Wild:	Project Geologist
Jan Helsen:	Project Geologist
Jesse Duke:	Geologist
Ken Galambos:	Geologist
Shiela Reid:	Geologist
Heather Brown:	Geologist
Louise Gagnon:	Geologist
Brian Hachey:	Assistant
Robert Copland:	Assistant
Gary Lee	Surveyor
Greg Morton	Assistant
Bruce Bark	Assistant
Andrew Wild	Assistant
Mervin Tew:	Camp Manager
Ken Grant:	Camp Manager

Jason Eastwood	Assistant
Ron Downing	Assistant
Mike Zachariou	Assistant
Tomas Howell	Assistant
Janine Copland	Cook
Jim O'Rourke	I.P. crew
Paul Feist	Assistant

The following people undertook studies that are directly associated with the Grew Creek project:

Tony Christie, Ph D.: Mr. Christie was on the property for several weeks studying the stratigraphy of the volcanic rocks that host mineralization in the Main zone. He is visiting Canada from the New Zealand Geological Survey in an exchange program with the Geological Survey of Canada in Vancouver. Ralph Ruston, a Master's candidate from the Univerity of Alberta, assisted Tony on the property.

Dr. D.J.T. Carson from the Toronto office is supervising preliminary metallurgical and mineralogical studies of the Main Zone mineralization.

Andrew McNeil from the Toronto office conducted a detailed mineralogical study of the Main Zone. This project included detailed petrographic analysis and microprobe work.

Lyndon Bradish from the Vancouver office supplied technical and interpretive support for all geophysical surveys.

J.P. Sorbara M.Sc., of J.P. Sorbara and Associates of Vancouver, wrote a qualifying report on Grew Creek for Golden Nevada Resources Inc.

Sampling Summary:

9,306 Core Samples were analysed for Gold and Silver by Fire Assay. Arsenic and Iron were determined by I.C.P. Mercury analysis was by flameless AA.

743 samples of bedrock and 374 panned concentrate samples from overburdon were analysed by 30 element I.C.P., gold was by fire-assay AA, and mercury by cold vapour AA.

500 soil samples were collected to complete coverage over the grid near the Main and Tarn zones. These were analysed for 30 elements by I.C.P. and for gold and mercury.

CHAPTER TWO: GEOLOGY

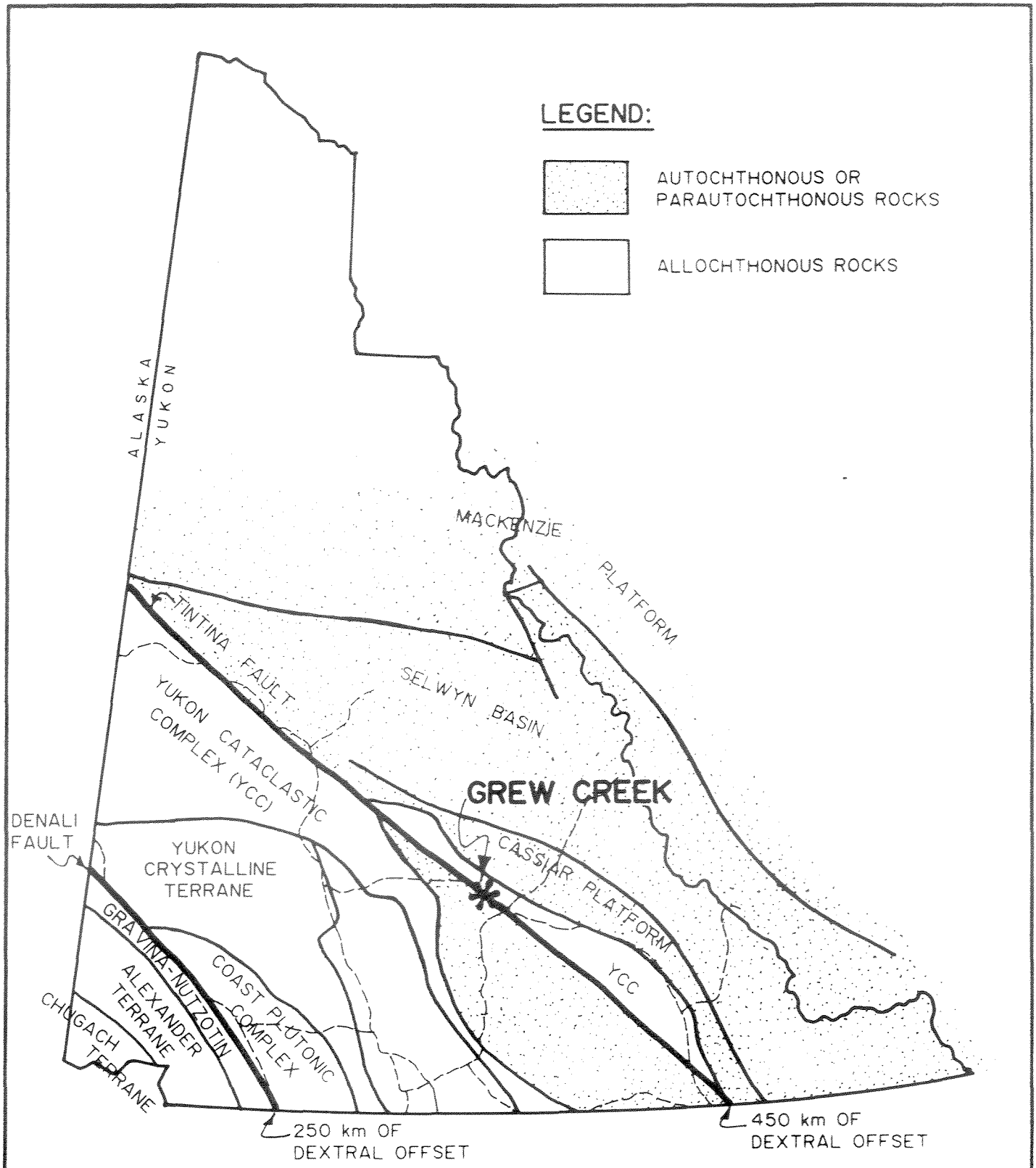
2-1: Regional Geology

The Grew Creek property lies within Eocene felsic volcaniclastic rocks in the Tintina Trench. During the Late Cretaceous, right-lateral movement along the trench caused at least 450 km of displacement (Roddick, 1967; Tempelman-Kluit, 1979). In the project area, this resulted in the juxtaposition of the Pelly-Cassiar Platform to the southwest against rocks of the Anvil Allochthon to the northeast.

To the southwest the Pelly-Cassiar Platform consists of early Paleozoic phyllite, argillite, and laminated chert of the Kechika Group. To the northeast rocks of the Anvil Allochthon represent eugeochinal equivalents of the Selwyn Fold Belt that were thrust northeastward during the Mesozoic (Tempelman-Kluit, 1979; Gordey, 1983).

Basaltic to rhyolitic volcanism and associated sedimentation during the Eocene produced the rocks hosting the mineralization at Grew Creek. During the Miocene or Pliocene extensional tectonics and regional uplift resulted in extensive block faulting within the Trench. Thus, the volcanic, volcaniclastic, and fluvial clastic sequence that hosts the mineralization at Grew Creek is preserved in a graben sandwiched between these major tectonic elements (Duke and Godwin, 1984).

2-2: Local Geology



REV. SEC

GREW CREEK PROPERTY

TECTONIC SETTING

(FROM TEMPELMAN-KLUIT 1981)

NOV. '88

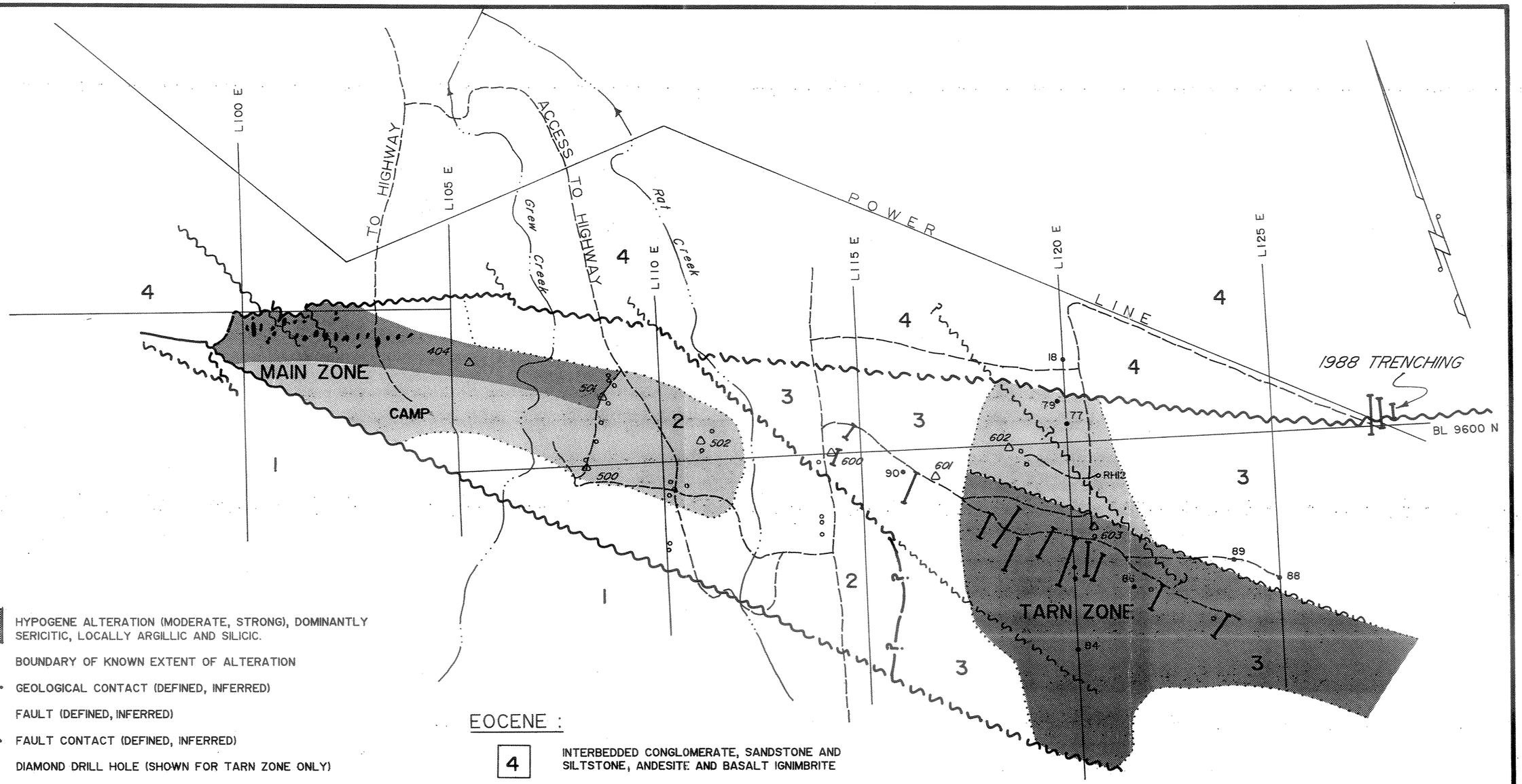
1"=100 miles

DWG No 3

NORANDA EXPLORATION

OFFICE WHITEHORSE

VANCAL 1192



LEGEND :

- HYPOGENE ALTERATION (MODERATE, STRONG), DOMINANTLY SERICITIC, LOCALLY ARGILLIC AND SILICIC.
- BOUNDARY OF KNOWN EXTENT OF ALTERATION
- GEOLOGICAL CONTACT (DEFINED, INFERRED)
- FAULT (DEFINED, INFERRED)
- FAULT CONTACT (DEFINED, INFERRED)
- DIAMOND DRILL HOLE (SHOWN FOR TARN ZONE ONLY)
- ROTARY DRILL HOLE (SHOWN FOR TARN ZONE ONLY)
- TRENCH
- BENCH MARK
- ROAD
- CREEK
- SKETCH OF GOLD MINERALIZATION PROJECTED TO SURFACE

EOCENE :

- 4 — INTERBEDDED CONGLOMERATE, SANDSTONE AND SILTSTONE, ANDESITE AND BASALT IGNIMBRITE
- 3 — RHYOLITE QUARTZ-FELDSPAR PORPHYRY, LOCALLY FLOW-BANDED MINOR RHYOLITE TUFF
- 2 — RHYOLITE CRYSTAL-LITHIC TUFF

PALEOZOIC :

- 1 — PHYLLITE, BANDED CHERT, DARK GREY ARGILLITE

NORANDA EXPLORATION CO. LTD.

GREW CREEK PROPERTY

TARN & MAIN ZONES SIMPLIFIED GEOLOGY

N.T.S.: 105 K	GEOLOGIST : J. DUKE	DATE : DECEMBER '88
SCALE : 1 : 10,000	D'TING : INTEGRAPHICS	FIGURE : 4

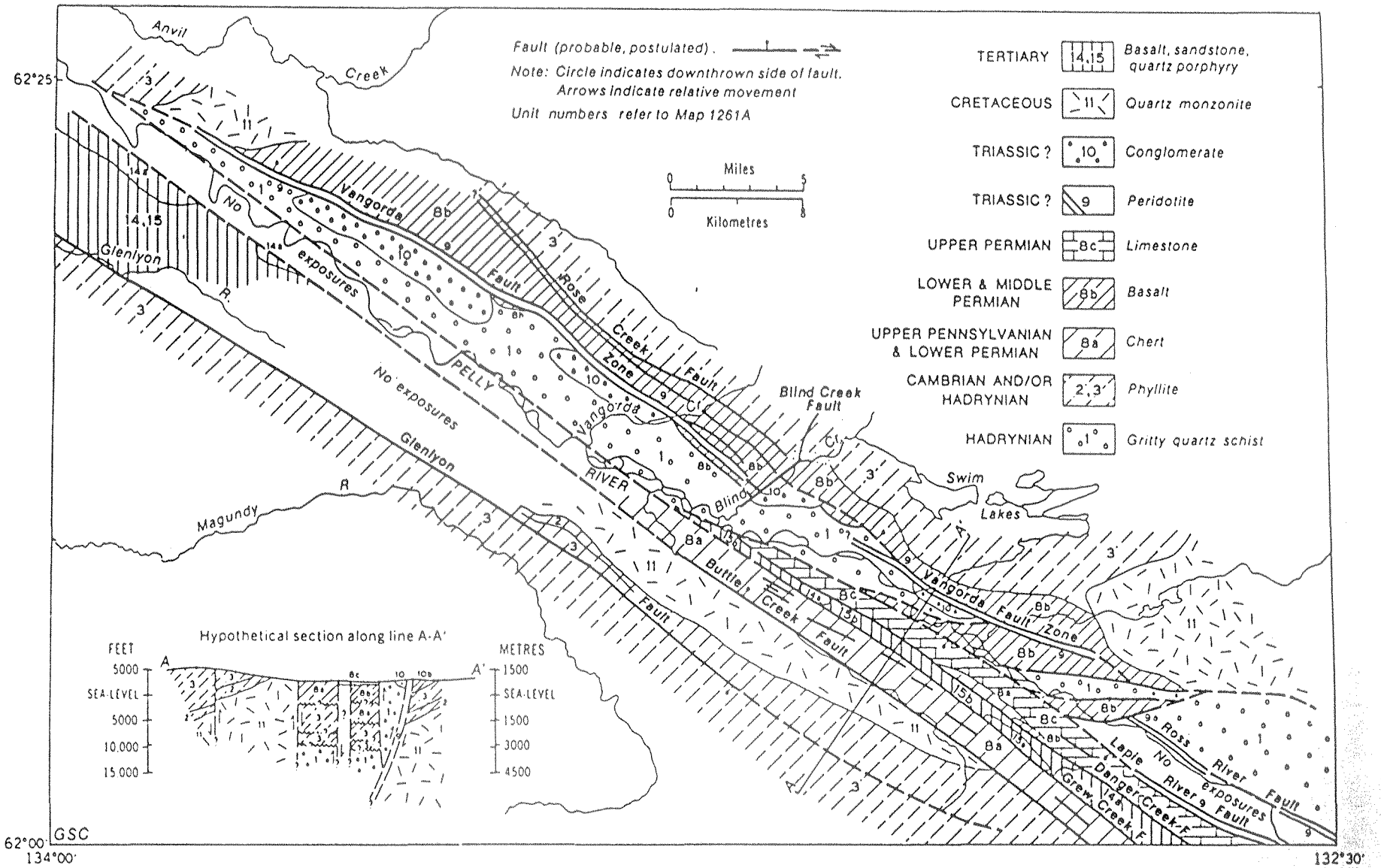


FIGURE 5 Sketch map of faults along Tintina Trench.

(taken from Tempelman-Kluit, 1972)

Era	Period or Epoch	Formation	Map-unit	Lithology	Thickness
CENOZOIC	Tertiary		15b	Conglomerate, sandstone, shale	unknown
			15a	Basalt	unknown
			14b	Rhyolitic tuff	unknown
			14a	Quartz–feldspar porphyry	
		RELATIONS NOT KNOWN			
	Cretaceous or Tertiary		13	Saussuritized porphyritic hornblende diorite	
		INTRUSIVE INTO UNITS 2, 3 and 11			
	Age unknown		12	Pyroxenite, hornblende diorite	
		INTRUSIVE INTO UNITS 2 and 3			
MESOZOIC	Cretaceous	Anvil Batholith	11	Porphyritic biotite–quartz monzonite and granodiorite; muscovite–biotite–granodiorite; foliated equivalents	
		INTRUSIVE INTO UNITS 2, 3 and 8			
	Lower or Middle Triassic		10	Conglomerate, shale, sandstone	±2,000
		UNCONFORMABLE ON UNIT 1			
	Upper Permian or Lower Triassic		9	Serpentinite, peridotite	
		FAULT BOUNDED			
	Upper Permian	Anvil Range Group	8c	Massive resistant recrystallized limestone	±300
	Lower Permian		8b	Basalt	±1,500
	Lower Permian and Upper Pennsylvanian		8a	Chert and siliceous tuff	±2,000
		UNCONFORMABLE ON UNITS 3, 4, 5, 6, 7			
	Upper Devonian and Mississippian		7	Slate, chert, greywacke, conglomerate, limestone	±10,000
		UNCONFORMABLE ON UNITS 3 and 4			
PALEOZOIC	Middle Devonian		6	Limestone and dolomite	0–100
	Silurian and Devonian		5	Medium-grained orthoquartzite	50
		CONFORMABLE			
	Ordovician and Silurian		4	Black slate, chert	+400
		UNCONFORMABLE ?			
PROTEROZOIC	Ordovician ?		3	Grey lustrous muscovite phyllite, quartzose phyllite, phyllitic schist, biotite-muscovite schist	4,000?
			3a	Andesitic greenstone, chloritic tuff	
	Cambrian ? and/or Hadrynian ?	CONFORMABLE ?			
			2	Biotite–muscovite schist, banded quartz–diopside skarn, marble, amphibolite	+2,000?
		BASE NOT SEEN			
	Hadrynian	'Grit Unit'	1	Muscovite quartzite, graphitic quartzite	?
		BASE NOT SEEN			

TABLE 1
Stratigraphic Column of the
Faro - Ross River Area
(Tempelman-Kluit, 1972)

The property lies on the western margin of the Tintina Trench. It is cut by five major northwesterly trending fault zones (Figs. 4 and 5). Significant strike-slip and dip slip motion is believed to have occured along these steeply dipping faults (Templelman-Kluit, 1972). Three distinct packages of rocks are recognized and described below.

PALEOZOIC: Light green phyllite, dark grey argillite, and banded brownish-grey chert form tan weathering outcrop in large cliffs and canyons southwest of the Grew Creek Fault.

TRIASSIC: Dark Green metabasalt and grey recrystallized limestone occur northeast of the Danger Creek Fault. The Limestones occur as white cliff-forming outcrop.

EOCENE: This is a package of rocks that include a bimodal suite of volcanic and volcaniclastics, and a sequence of fluvial sediments ranging from mudflows to pebble conglomerate. It forms a long narrow graben bounded by the Grew Creek Fault to the southwest and the Danger Creek Fault to the northeast and has been traced as far away as Lapie River to the southeast. (see Figs. 4 and 5). All of drilling and trenching was confined to these rocks. The following legend includes the abbreviations used on all Borsurv sections.

TABLE II

Grew Creek Legend

PLEISTOCENE

OVBR Overburden: Very poorly sorted, clay rich glacial till; numerous exotic boulders angular to rounded, clay rich matrix.

EOCENE

SEDS A: Conglomerate: polymictic, pale gray colour, moderately to poorly consolidated; very poorly sorted, coarse sandy matrix with clasts up to 15 cm in size, clast supported; clasts commonly white to gray quartz-muscovite and chlorite schists, felsic and mafic volcanics and black cherty argillite.Interpreted as fluvio-lacustrine deposits.

B: Sandstone: Pale to medium gray, moderately well consoliated, poorly to well sorted, grades from fine silty sandstone to coarse pebbly sandstone, sharp to gradational contacts with both mudstone and conglomerate; frequent graded bedding, occasional cross bedding; composition varies from lithic to arkosic and includes

sections of volcaniclastic sandstone and reworked tuffs.

C: Siltstone - mudstone: Medium to dark gray, fine grained silt and clay size grains, weakly to strongly carbonaceous, minor "carbon-rich" seams; thinly bedded, fissile, interbedded with silty sandstone. Interpreted as lacustrine deposits.

D: Reworked volcaniclastic deposits: Medium to dark grey. Clast size ranges from samd to small pebbles which are unsorted to poorly sorted ith weak bedding sometimes visible. Clasts are intermediate in composition and range from rounded to angular.

ANDE A: Andesite flows: Dark gray to black, porphyritic, vesicular, amygdaloidal, or fine grained and massive; varies compositionally from basalt to dacite, weakly to moderately magnetic.

B: Mafic tuff: Dark gray, weakly porphyritic lithic tuff; varying degrees of chloritization.

RHLT A: Quartz-feldspar porphyry rhyolite: Pale gray to green colour, quartz - eye and feldspar phenocrysts in a fine grained to aphanitic

matrix. The matrix is often altered to sericite-rich (green) clays. Feldspars phenocrysts are often weakly to moderately calcareous and includes occasional tuff and cherty argillite fragments.

B: Quartz - eye porphyry: Greenish gray with clear to gray rounded quartz eyes up to 10mm in diametre occurs as dykes and irregular patchy intrusions into clay altered tuffs and sediments.

C: Feldspar porphyry: Pale green, usually coarse grained feldspar phenocrysts are partially or completely altered to clay. Occurs as dykes.

F: Rhyolite type A with fragmental and/or breccia textures.

G: Rhyolite type A, flow banded.

DIOR Diorite: Equigranular crystalline rock. It consists of euhedral plagioclase laths, 0.5 to 2.0mm in size and some shapeless plagioclase grains with up to 10% amphiboles occurring as acicular crystals up to 2.0cm in size.

TUFF A: Crystal-lithic: Light to medium gray, crystal and lithic fragments 1 - 4mm in size with up to 30% lapilli size fragments, usually poorly sorted with clasts of quartz, feldspar, rhyolite, andesite, chert, argillite, quartz - muscovite and quartz - chlorite schists, angular to subrounded.

B: Lithic tuff: Medium to light greenish gray; subangular to angular fragments primarily composed of fine-grained andesite, often porphyritic. Fragment size ranges from 1mm to 3cm. Both clast and matrix supported; matrix is very fine-grained and light grey to brownish grey in colour.

C: Crystal tuff: Pale to medium gray, fine to medium grained crystal fragments of quartz, k -spar. Occurs as thin interbeds in the crystal lithic tuff.

D: Lapilli tuff: Fragments 4mm to 64mm in size comprise >30% of the rock. It has the same composition as crystal lithic and lithic tuff, usually gradational contacts.

E: Ash tuff: Light to medium gray, very fine grained, associated with fine grained crystal and crystal-lithic tuff, usually as thin interbeds.

F: Breccia and agglomerate: Consists of lithic fragments >64mm in size in lithic or crystal-lithic tuff matrix, may be clast or matrix supported and very poorly sorted; usually angular to subangular blocks.

G: Vitric tuff: Fine grained, light to dark gray; consists of glassy fragments in dark vitric matrix often with minor quartz and feldspar crystal fragments.

R: Felsic in composition, leucocratic.

I: Intermediate in composition, mesocratic.

FAULT Sheared clay, frequently graphitic, often with minor quartz carbonate veining and finely disseminated pyrite. Contains subrounded to angular sedimentary, volcanic and metamorphic fragments.

ALTERATION: 1) Strong: Core mostly decomposed.

Original rock texture completely destroyed.

2) Moderate: Frequent sections of friable core, all feldspars are altered to clay.

3) Weak: Feldspars are discolored with many altered to clays and calcite.

a) Argillic: White clays common.

s) Silicic: Quartz flooded rock, usually associated with veining.

c) Carbonate: Calcite, dolomite, or siderite.

m) Sericitic: Green clays common (associated with the alteration of rhyolite).

VEINING:

V) Veining

S) Stockwork

1) Strong: 10% or more of the core is veining.

2) Moderate: 4 - 10% veining.

3) Weak: 1 - 3% veining.

qz) Quartz

cb) Carbonate

py) Pyrite

ch) Chalcedonic or banded

CHAPTER THREE: GEOCHEMISTRY

3-1: Soil sampling program

Soil samples were collected on new extensions of the Tarn Zone grid cut in July. The results are found on Figures 11a-d.

Soil geochem coverage over the central part of the Tarn Zone was done by Helsen in 1987. The best response was 70ppb Au near 12300E, 9150N close to the surface expression of weak gold mineralization intersected in DDH 86. Soil sampling in this area by Hudson Bay in 1985 show a few scattered gold anomalies (up to 100ppb) near the area of Hudson Bay trenching.

Gold mineralization (up to 2110ppb Au/1.0m) was exposed in trenching along the western part of the grid near 9600N. A weak dispersion train can be traced for 200 metres from the trenches in the direction of local Pleistocene ice movement. No dispersion of Ag, As or Hg was detected.

The best geochemical response is centered on 12600E, 9500N on the steep northeast slope of a large drumlin. A 200m by 100m area shows anomalous gold values up to 225ppb and mercury up to 330ppb in this area.

It is clear from the weakness of the gold dispersion (and nonexistance of the Ag, As, and Hg dispersion) from outcropping mineralization at the 1988 trenches (near 12700E, 9600N) that the value of soil geochemistry to define even outcropping mineralization is limited.

CHAPTER FOUR: DIAMOND DRILLING

The 1988 drill program consisted of three phases as described below:

Phase 1: Continued definition drilling over mineralization in the Main Zone. In total 68 holes were drilled by Noranda. 31 of these were drilled in 1988. 30 of the holes (13,156.5 metres) were completed with a diamond drill using a 5 foot HQ core barrel. Core size was reduced to NQ only when necessary in an attempt to improve recovery through mineralized zones. One rotary hole was drilled over the Main Zone deposit (RC21) to compare assay results from this type of drilling with those from the diamond drill core.

Phase 2: Exploration drilling in the Tarn Zone. 10 diamond drill holes (3045 metres) were completed in this area. This included a 6 hole fence across favourable geology. Four holes tested targets suggested by ground geophysical surveys.

Phase 3: Exploration drilling using reverse circulation near Rat Creek between the Main and Tarn Zones. Two fences across favorable geology were attempted. Difficulties with deep overburden prevented the completion of one of the fences. A total of 12 holes (1448 metres) were drilled.

All of drilling was done on section, either grid north or

grid south.

Water for drilling was readily available on the property from a small lake near the Main Zone and Rat Creek near the Tarn Zone. The holes furthest from Rat Creek in the Tarn Zone required two pumping stations to reach the drill.

The biggest problem with the drilling program was the overburden depth. Up to 60 m of glacial till was encountered. Use of the Schramm drill to drive casing to bedrock proved cost effective. This machine was able to complete the job at half the cost per metre and usually twice as fast as the diamond drills.

During phase 3 of the program, deep overburden underlying line 11400E prevented completion of a fence there. The drill used an Odex down-hole hammer to drive casing through the overburden. Unconsolidated sand and silt at depths of 30 to 50 metres interferred with the turning of the casing. Bedrock was only reached in one hole on this line.

Drill logs for holes NGC88-34, 36 72, and 75 are in Appendix I. Appendix II lists all survey data with geology, Au + Ag + Hg + As values from these holes.

CHAPTER FIVE: MINERALIZATION AND ALTERATION

Mineralization on the Main Zone is hosted by a stockwork zone reaching a maximum width of 110 metres, but more commonly 50 to 70 metres wide over a strike length of 550 metres. The stockwork (and associated mineralization) is bounded by faulting toward the west. Its extent has been defined by drilling toward the east. The gold is confined to a stockwork within strongly altered crystal lithic lapilli tuff (and, rarely, porphyry intruded into the tuff).

The stockwork consists of grey and cream colored finely banded quartz +/- carbonate +/- adularia +/- clay veins up to several centimetres thick.

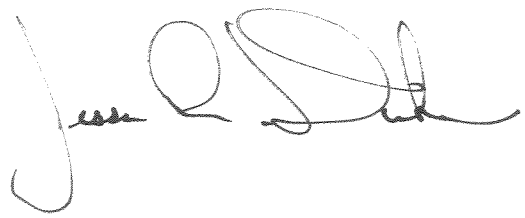
Intense argillic alteration of the wall rock is common next to strongly mineralized veins. These clay zones range in thickness from a few centimetres to several metres in sections of strongly mineralized stockwork. This clay alteration is usually not recovered in drill core.

Silicic alteration occurs as the thinly banded mineralized stockwork that hosts the gold and silver and as patches of quartz flooding usually directly associated with the stockwork.

CHAPTER SIX: CONCLUSIONS AND RECOMMENDATIONS

The eastern and southern extent of the Main Zone gold and silver mineralization at Grew Creek has been defined by extensive drilling. The gold zone is truncated by normal faults along its western and northern boundaries. The potential remains to discover a western extension of the Main Zone mineralization at depth. Diamond drill holes intersecting the 450m level at 9940N on section 9900E and 9800E are recommended. This would require approximately 1000 metres of drilling.

No further work is recommended in the Tarn Zone.



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STATEMENT OF COSTS

The following common costs were used in calculations of expenditures on the claim groupings:

GEOCHEMISTRY

1)	Soil samples: preparation, analysis (ICP), shipment: ----------	$13.00/sample
2)	Field labour and supervision: ----------	6.50/sample
3)	Vehicles and camp costs: ----------	3.50/sample
4)	Food and accommodation: ----------	5.00/sample
	TOTAL:	28.00/sample

Costs per sample are estimated on the observed average of 20 samples per sampler collected each day.

DIAMOND DRILLING

1) Diamond drill core NQ or larger: $59.00/metre ($18.00/foot).
2) Casing to bedrock: $16.40/metre ($5.00/foot).

CLAIM GROUPS

1) Canyon 1,3,5 29,31,32,47-50,73-78 (16 claims):

NGC88-72:

Casing: 28.3m X $16.4 = $464.00

Core: 299.5m X $59.00 = $17,670.00

TOTAL $18,134.00

Four years assessment.

2) Canyon 2,4,6,27,28,30,37-46 (16 claims)

NGC88-34,36:

Casing: 134.0m X $16.4 = $2,197.60

Core: 373.0m X $59.00 = $22,007.00

TOTAL $24,204.60

Four years assessment.

3) Canyon 15,16,17,19,21,23,26,293-300 (16 claims)

Soil geochemistry: 400 samples X $28.00 = $11,200.00

Four years assessment

4) Canyon 7-14,18,20,22,25,33-36:

NGC88-75:

Core: 327m X $59.00 = $19,290.00

Four years assessment.

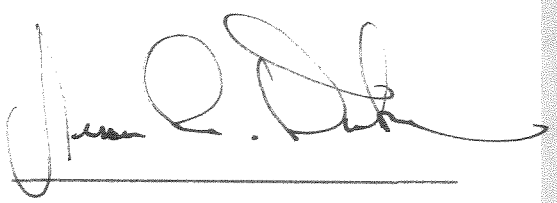
STATEMENT OF QUALIFICATIONS

I, Jesse L. Duke of the City of Whitehorse, Yukon, do hereby certify that:

1. I have been an employee of Noranda Exploration Company, Limited (no personal liability) in Whitehorse since April, 1988.

2. I am a graduate of the University of Alaska in Fairbanks, Alaska with a B.Sc. in Economic Geology.

3. I supervised and performed the field work described in this report.



Jesse L. Duke

Geologist

APPENDIX I

DRILL LOGS

NORANDA EXPLORATION COMPANY LTD.

(34)

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet / of /6
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 190.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
0	45.0		OVERBURDEN						
45.0	46.5	70%	VOLCANICLASTIC LITHIC & QTZ PEBBLE CONGLOMERATE mostly granule to pebble sized sub-rounded clasts in siliceous matrix 85% clasts 15% matrix clast supported weak to mod. clay alt.	v. blocky core			98176		
46.5	48.0	45%	VOLCANICLASTIC CONGLOMERATE AS ABOVE many large pebbles of qtz & mafic lithologies mod. clay alt.	"			98177		
48.0	49.5	60%	VOLCANICLASTIC CONGLOMERATE AS ABOVE mod. clay alt.	"			98178		
49.5	51.0	90%	V.C. AS ABOVE weak clay alt. 50.2-50.5 strong clay alt.	mod. blocky			98179		
51.0	52.5	85%	V.C. AS ABOVE mod. to strong clay alt.	"			98180		
52.5	53.22	95%	V.C. AS ABOVE at 52.90 clast size becoming smaller, to coarse sand size weak clay alt.	slightly blocky			98181		
53.22	54.0	95%	VOLCANICLASTIC LITHIC SANDSTONE carbonaceous med. grained, minor lenses of conglomerate weak to mod. clay alt.	"			"		

DRILL LOG - 81

Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 2 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip
Dep. 10150 E	Length 190.5	Bearing 199°						Dep.	Length	Bearing

HOLE No.
NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
54.0	54.05	100%	VOLCANICLASTIC LITHIC SANDSTONE med. grained carbonaceous contact with underlying conglomerate 65° to c.a.	slightly blocky			98182		
54.05	54.26	100%	VOLCANICLASTIC CONGLOMERATE sub-angular to sub-rounded granules & small pebbles of diverse lithologies in f.g. siliceous matrix. 80% clasts 20% matrix very weak clay alt.				"		
54.26	54.90	90%	VOLCANICLASTIC LITHIC SANDSTONE contact with overlying conglomerate 45° to c.a. mod. clay alt.	very blocky			"		
54.90	55.45	85%	QTZ-EYE RHYOLITE PORPHYRY possibly a dyke, but contacts are indistinct, due to ground-up core lower contact ~45° to c.a. strong clay alt.	"			"		
55.45	55.5	100%	VOLCANICALSTIC LITHIC SANDSTONE quite broken up (rip up clasts) mod. clay alt.	"			"		
55.5	57.0	90%	VOLCANICLASTIC CONGLOMERITIC SANDSTONE v. carbonaceous black carbon in partings v. weak clay alt.				98183		
57.0	58.5	95%	VOLCANICLASTIC SANDSTONE carbonacous med. grained sand, finely laminated carbon rich layers bedding @45° to c.a. weak clay alt.	mod. blocky			98184		
58.5	58.62	100%	VOLCANICLASTIC SST AS ABOVE weak clay alt. contact with underlying tuff @~60° to c.a.				98185		

DRILL LOG - 81

Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 3 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 180.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
58.62	60.0	100%	TUFF light grey color mod. to strong clay alt. 59.30-59.56 carbonaceous interbeds @~45° to c.a. 59.73-60.0 carbonaceous interbes @~45° to c.a.	mod. blocky			98185		
60.0	61.5	95%	TUFF med. grey/beige color carbonace interbeds throughout bedding 45°-60° to c.a. some slumping (rip up clasts) minor pebbles mod. to strong clay alt.	slightly blocky			98186		
61.5	61.94	95%	TUFF AS ABOVE contact with underlying sandstone @~65° to c.a.				98187		
61.94	62.70	95%	VOLCANICLASTIC SANDSTONE med. grained, reworked xl. tuff v. weak clay alt. contact with underlying black tuff @~45° to c.a.	"			"		
62.70	63.0	95%	BLACK TUFF? (MUDSTONE?) med. hardness (H≃4) very carbonaceous weak clay alt.	very blocky			"		
63.0	63.25	100%	VOLCANICLASTIC CONGLOMERITIC SANDSTONE reworked xl. tuff & small pebbles of various lithologies contact with underlying black tuff @~65° to c.a. v. weak clay alt.				98188		
63.25	63.70	100%	BLACK TUFF? (MUDSTONE?) very carbonaceous rip up clasts gradational contact with underlying sandstone	v. blocky core			"		
63.70	64.5	100%	VOLCANICLASTIC SANDSTONE med. grained v. carbonaceous lower portion of section is reworked crystal lapilli tuff v. weak clay alt.	mod. blocky			"		

DRILL LOG - 81

Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 4 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 190.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
64.5	66.0	95%	CARBONACEOUS VOLCANICLASTIC LITHIC CONGLOMERATE reworked tuff & rock frags quite fissive bedding at ~45° to c.a. weak to mod. clay alt.	slightly blocky			98189		
66.0	67.5	100%	VOLCANICLASTIC LITHIC CONGLOMERATE AS ABOVE sub-angular to sub-rounded granule to large pebble sized frags of various lithologies, in fine sand & mid matrix, carbonaceous				98190		
67.5	69.0	100%	CARBONACEOUS VOLCANICLASTIC LITHIC CONGLOMERATE AS ABOVE minor blebs of Py 5-10mm across weak to mod. clay alt.	slightly blocky	2		98191		
69.0	69.60	85%	C.V.L.C. AS ABOVE contact with underlying V.L.C. @45° to c.a.	"	2		98192		
69.60	70.5	85%	VOLCANICLASTIC LITHIC CONGLOMERITIC carbonaceous in part	"			"		
70.5	71.79	90%	VOLCANICLASTIC LITHIC CONGLOMERITIC SST carbonaceous in part interbeds of lithic sandstone bedding at ~60° to c.a., mod. clay alt.	"			98193		
71.79	72.0	90%	VOLCANICLASTIC CONGLOMERATE sub-rounded granule to small pebble sized clasts in f.g. matrix. 90% clasts 10% matrix, no apparent alt.				"		
72.0	72.25	100%	VOLCANICLASTIC CONGLOMERATE AS ABOVE no apparent alt. contact with underlying sandstone ~55° to c.a.	slightly blocky			98194		

DRILL LOG - 81

Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES		Sheet 5 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 190.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
72.25	73.5	95%	CARBONACEOUS VOLCANICLASTIC SANDSTONE minor conglomeritic lenses, weak clay alt.	mod. blocky			98194		
73.5	75.0	95%	CARBONACEOUS VOLCANICLASTIC CONGLOMERITIC SANDSTONE slumping predominant, diss. Py, w. clay alt.	"	2		98195		
75.0	76.5	* 20%	CARBONACEOUS MUDSTONE (TUFF?) *MUCH CORE LOST* grades into light grey ash tuff, strong clay alt.	extremely broken up			98196		
76.5	77.40	80%	ASH TUFF light grey color indistinct contact with qtz-eye rhyolite mod. to strong clay alt.	mod. blocky			98197		
77.40	78.0	80%	QTZ-EYE RHYOLITE light grey color v.f.g. with minor qtz-eyes 3-4mm across v. weak clay alt.	very blocky			"		
78.0	79.5	80%	QTZ-EYE RHYOLITE AS ABOVE minor Py, diss. & in blebs weak clay alt.	very blocky & broken up	2		98198		
79.5	81.0	85%	QTZ-EYE RHYOLITE AS ABOVE 79.5-80.10 extremely broken up, mod. clay alt. 80.10-81.0 slightly blocky, v. weak clay alt.		2		98199		
81.0	82.5	95%	QTZ-EYE RHYOLITE 81.45-81.76 very blocky strong clay alt. elsewhere v. weak clay alt. minor blebs of Py.	mod. blocky	1		98200		

DRILL LOG - 81

Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES		Sheet 6 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 190.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
82.5	84.0	100%	QTZ-EYE RHYOLITE v.f.g. light grey, with qtz-eyes ~3mm across numerous qtz. veinlets 1-5mm wide various orientations v. weak clay alt.	slightly blocky			16851		
84.0	85.5	90%	Q.E. R. AS ABOVE numerous frac. in variable orientations, filled with clays & qtz. v. weak clay alt. minor blebs of Py.	"	1		16852		
85.5	87.0	95%	Q.E. R. AS ABOVE minor Py in blebs & fracs. v. weak clay alt.	mod. blocky	1		16853		
87.0	88.5	85%	Q.E. R. AS ABOVE minor Py in blebs & fracs weak to mod. clay alt.	"	2		16854		
88.5	88.78	100%	Q.E. R. AS ABOVE Py in frac. v. weak clay alt. 89.10-89.70 intense fracturing & rehealing with qtz veinlets & rhyolitic dykes	slightly blocky	2		16855		
88.78	90.0	95%	RHYOLITIC TUFF lapilli sized frags in dust matrix contact with overlying rhyolite is gradational v. weak clay alt.				"		
90.0	90.13	90%	RHYOLITIC TUFF AS ABOVE Py in frac. contact with underlying conglomerate @50° to c.a.				16856		
90.13	90.72	90%	VOLCANICLASTIC CONGLOMERATE mostly granules & small pebble in sand-clay matrix mod. to strong clay alt.	mod. blocky			"		

DRILL LOG 81

Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 7 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 180.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
90.72	91.5	90%	QUARTZ EYE RHYOLITE f.g. with qtz-eyes 3-4mm Py in frac. contact with overlying volcaniclastic indistinct due to ground core weak to mod. clay alt.	mod. blocky	1		16856		
91.5	93.0	95%	Q.E. R. AS ABOVE Py in frac minor carb veinlets 1-5mm, v. weak clay alt. mod. clay alt. in frac.	"	1		16857		
93.0	94.20	100%	Q.E. R. qtz-eyes becoming fewer than before 5% diss. Py frac with fillings of clays, minor carb, minor Py v. weak clay alt.	slightly blocky	5		16858		
94.20	94.5	95%	Q. E. R. AS ABOVE but clay alt. increasing to very strong, ~5% diss. Py	mod. blocky	5		"		
94.5	96.0	95%	Q.E. R. v.f.g. with qtz-eyes 3mm 5% diss. Py, mod. to strong clay alt.	"	5		16859		
96.0	97.3	95%	Q.E. R. AS ABOVE @97.0 several large blebs ~2cm across of f.g. Py, v. strong clay alt.	"	5		16860		
97.3	97.5	90%	CRYSTAL LAPILLI TUFF contact with overlying rhyolite irregular, ~70° to c.a., crystal lapilli tuff glomerophenocrysts up to 5mm in f.g. ash matrix, v. strong clay alt.	"			"		
97.5	97.65	90%	C. L. T. AS ABOVE gradational change to ash tuff at base of section, v. strong clay alt.	"			16861		

DRILL LOG - 81

Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 8 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 180.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
97.65	98.4	95%	LITHIC TUFF v.f.g. light grey color minor blebs of Py f.g. some small lithic pebbles v. strong clay alt.	mod. blocky	1		16861		
98.4	99.0	95%	L. T. AS ABOVE has the appearance of having been re-worked fracs. parallel to c.a. & various orientations, strong clay alt.	"	1		"		
99.0	99.50	100%	L. T. AS ABOVE brecc. & rehealed with clay-qtz infilling weak to mod. clay alt.	"	1		16862		
99.50	100.5	100%	CRYSTAL LAPILLI TUFF light to med. grey gradational contact with overlying ash tuff v. siliceous some brecc. minor small blebs of f.g. Py, weak clay alt.	slightly blocky	1		"		
100.5	102.0	90%	C. LAPILLI TUFF light grey, very siliceous f.g. groundmass, with lapilli sized frags 100.5-100.92 weak clay alt. 100.92-102.0 strong clay alt. minor Py	mod. blocky	1		16863		
102.0	103.5	85%	C. LAPILLI TUFF minor lithic frags minor blebs of f.g. Py 102.0-102.5 very blocky strong clay alt. 102.5-103,5 slightly blocky mod. clay alt.	"	1		16864		
103.5	105.0	85%	C. LAPILLI TUFF lapilli sized crystal & lithic frags in ash sized groundmass, light to med. grey color, minor blebs of f.g. Py, strong clay alt.	"	1		16865		
105.0	106.5	75%	C. LAPILLI TUFF 105.0-105.48 slightly blocky, mod. to strong clay alt. 105.48-106.5 extremely broken up, strong clay alt.				16866		

DRILL LOG 81

Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 9 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 190.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
106.5	108.0	80%	CRYSTAL LAPILLI TUFF med. grey color strong smell of H_2S when broken v. strong clay alt.	v. broken up & blocky			16867		
108.0	109.5	60%	C. LAPILLI TUFF AS ABOVE lapilli in ash groundmass qtz veinlets, no orientations due to broken up core v. strong clay alt.	"			16868		
109.5	111.0	95%	LAPILLI TUFF mostly ash sized frags, minor lapilli frags quite siliceous, strong clay alt.	v. broken up			16869		
111.0	112.5	95%	LAPILLI TUFF fracs at 45° to 80° to c.a. 111.2-111.45 & 112.3 -112.5 strong clay alt. & more blocky elsewhere, less blocky, weak to mod. clay alt.	mod. blocky			16870		
112.5	114.0	95%	LAPILLI TUFF fracs at 45° to 80° to c.a. 112.5-112.55 & 113.20-113.85 strong clay alt. elsewhere, mod. clay alt.	"			16871		
114.0	115.5	75%	LAPILLI TUFF med. grey color fracs in all directions with strong clay alt., whole rock has weak to mod. clay alt.	v. blocky core			16872		
115.5	117.0	75%	lapilli tuff med. grey, very siliceous weak to mod. clay alt., strong clay alt. in fracs.	"			16873		
117.0	118.5	80%	CRYSTAL LAPILLI TUFF minor ash, 117.0-117.50 slightly blocky mod. clay alt. 117.50-118.30 very blocky strong clay alt. 118.30-118.50 slightly blocky mod. clay alt. 118.70 f.g. banded qtz veinlet 2mm wide @30° to c.a.				16874		

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Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES		Sheet 10 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep 10150 E	Length 190.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
118.5	120.0	95%	LAPILLI TUFF lapilli frags in ash matrix med. grey color @118.64-118.83 rhyolites porphyry dyke, up to 2cm wide sub-parallel to c.a., weak clay alt.	slightly blocky			16875		
120.0	121.5	95%	TUFF minor lapilli frags fracs in various orientations, dominantly 45° to c.a. mod. clay alt. in fracs.	mod. blocky			00501DR		
121.5	123.0	100%	LAPILLI TUFF fracs at 45° to 80°, clay filled, otherwise weak clay alt.	"			00502DR		
123.0	124.5	100%	CRYSTAL LAPILLI TUFF AS ABOVE clay filled fractures	"			00503DR		
124.5	126.0	100%	C. LAPILLI TUFF AS ABOVE clay filled fracs.	"			00504DR		
126.0	127.5	95%	C. LAPILLI TUFF AS ABOVE clay filled fracs	"			00505DR		
127.5	129.0	100%	C. LAPILLI TUFF AS ABOVE clay filled fracs	"			00506DR		
129.0	130.5	90%	C. LAPILLI TUFF 129.1-129.56 very blocky & broken up elsewhere slightly blocky, clay filled fracs @130.2 1cm wide banded chal veinlet @10° to c.a.				00507DR		

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Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ					GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES		Sheet 11 of 16
Lat. 10030 N	Elev	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 190.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
130.5	132.0	100%	CRYSTAL LAPILLI TUFF med. grey color minor lithic frags, weak clay alt., strong clay alt. in fracs ~75° to c.a.	mod. blocky			00508DR		
132.0	133.5	95%	C. LAPILLI TUFF AS ABOVE @132.97 v.f.g. rhyolite dykelet 1cm wide @30° to c.a. @133.0 v.f.g. rhyolite dykelet 2cm wide @65° to c.a.	"			00509DR		
133.5	135.0	95%	C. LAPILLI TUFF med. grey color, slightly blocky, weak clay alt. except for 133.80-134.11 very broken, strong clay alt. gradational contact with underlying sandstone				00510DR		
135.0	135.32	90%	VOLCANICLASTIC SANDSTONE weak clay alt., fine grained mostly reworked tuff, sub-rounded clasts 135.25 3cm wide rhyolitic dykelet, dirty grey, v.f.g. @50° to c.a.	mod. blocky			00511DR		
135.32	136.5	100%	CRYSTAL LAPILLI TUFF gradational contact with overlying SST, weak clay alt., minor v.f.g. rhyolitic dykelets 2-8mm wide various orientations	"			"		
136.5	138.0	100%	C. LAPILLI TUFF AS ABOVE weak clay alt.,minor v.f.g. rhyolitic dykelets 1-5mm wide, various orientations, but generally within 15° of c.a.	"			00512DR		
138.0	139.5	100%	C. LAPILLI TUFF AS ABOVE weak clay alt., with minor v.f.g. rhyolitic dykelets 2-15mm wide variable orientations	"			00513DR		
139.5	141.0	95%	C. LAPILLI TUFF AS ABOVE weak clay alt., minor v.f.g. rhyolitic dykelets as above	"			00514DR		

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Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan 22/88	Jan 27/88	HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 12 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 190.5	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
141.0	142.5	95%	CRYSTAL LAPILLI TUFF med. to dark grey, v. weak clay alt., minor v.f.g. rhyolitic dykelets 1-5mm wide altering to clays	mod. blocky			00515DR		
142.5	144.0	90%	C. LAPILLI TUFF AS ABOVE weak clay alt. 142.82-143.26 v. blocky, mod. clay alt. minor qtz-carb veinlets 1-2mm variable orientations	"			00516DR	********** *SWITCHED TO NQ CORE SIZE* **********	
144.0	145.5	100%	C. LAPILLI TUFF AS ABOVE some angular frags of qtz-eye rhyolite, weak clay alt., @144.25 5-15mm wide f.g. rhyolitic dykelet @50° to c.a.	"			00517DR		
145.5	147.0	85%	LAPILLI TUFF gradational contact with overlying lapilli ash tuff, med. grey, 25% lapilli frags in 75% ash matrix, weak clay alt.	"			00518DR		
147.0	148.5	90%	LAPILLI TUFF AS ABOVE mod. blocky, weak clay alt 148.25-148.50 v. blocky & broken, mod. clay alt. gradational contact with underlying lapilli ash tuff				00519DR		
148.5	150.0	95%	CRYSTAL LAPILLI TUFF med. grey color, 80% lapilli frags 2-8 mm in 15% ash matrix 148.5-148.7 v. blocky & broken, mod. clay alt. 148.7-150 mod. blocky v. weak clay alt.				00520DR		
150.0	151.5	90%	C. LAPILLI TUFF AS ABOVE mod. clay alt.	mod. to v. blocky			00521DR		
151.5	153.0	90%	C. LAPILLI TUFF AS ABOVE 151.5-151.83 v. broken up, strong clay alt. 151.83-152.2 slightly blocky, mod. clay alt. 152.2-152.65 v. broken up, numerous qtz-carb veinlets strong clay alt. 152.65-153.0 v. broken up, strong clay alt.				00522DR		

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Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan. 22/88	Jan. 27/88	NQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 13 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
153.0	154.5	95%	CRYSTAL LAPILLI TUFF 153.0-153.52 v. broken up, strong clay alt, minor qtz-carb 153.52-154.3 mod. blocky, mod. to strong clay alt. minor carb 154.3-154.5 slightly blocky, mod clay alt.				00523DR		
154.5	156.0	90%	C.L.T. AS ABOVE mod. to v. blocky, mod. to strong clay alt., minor qtz-carb veinlets, 1-2mm wede, variable orientations				00524DR		
156.0	157.5	85%	C.L.T. AS ABOVE v. blocky & broken up, strong clay alt. minor carb				00525DR		
157.5	159.0	50%	C.L.T. AS ABOVE 157.5-158.5 v. broken up strong clay alt., minor carb 158.5-159.0 v. dk grey to black carbonaceous, with diss f.g. Py minor clay filled fracs. strong clay alt. minor carb		2		00526DR		
159.0	160.5	100%	C.L.T. AS ABOVE 159.0-159.25 numerous qtz-carb veinlets 3-8mm sub-parallel to c.a. strong clay alt 159.25-160.5 brecc & rehealed, mod blocky, mod. to strong clay alt., minor carb.		1		00527DR		
160.5	162.0	95%	C.L.T. AS ABOVE 160.5-160.92 slightly blocky, weak to mod. clay alt. 160.92-162.0 v. blocky & broken up, strong clay alt. minor carb				00528DR		
162.0	163.50	95%	C.L.T. AS ABOVE 162.0-163.10 v. broken up, strong clay alt., minor carb 163.05 1.5cm wide v.f.g. qtz veinlet @45° to c.a. 163.10-163.50 mod. blocky, weak clay alt.				00529DR		
163.50	164.55	90%	C.L.T. AS ABOVE slightly blocky, fracs. at 30°-70° to c.a., weak clay alt.				00530DR		

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Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan. 22/88	Jan. 27/88	NQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 4 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
164.55	164.95	90%	CARBONACEOUS DUST TUFF minor lapilli sized frags 2-4mm hard (H≈5) v.f.g. black carbonaceous martix weak to mod. clay alt. upper contact not discernable, lower contact 45° to c.a.				00530DR		
164.95	165.0	90%	CRYSTAL LAPILLI TUFF med. grey color 75% lapilli frags 2-5mm, in ash tuff matrix, slightly blocky, weak clay alt.				"		
165.0	166.12	95%	C.L.T. AS ABOVE carbonaceous, mod. clay alt no contact orientation with underlying unit, due to ground up core	mod. blocky			00531DR		
166.12	166.50	90%	LAPILLI TUFF light grey color, ~20% lapilli frags 2-4mm in v.f.g. ash matrix , hard (H≈6) minor qtz veinlets, v. weak clay alt.	slightly blocky			"		
166.50	167.30	100%	L.T. AS ABOVE v. weak clay alt., minor fracs with clay fillings	v. slightly blocky			00532DR		
167.30	168.0	95%	LAPILLI TUFF dk. grey color 20% lapilli frags 2-4mm in v.f.g. ash matrix, weak to mod. clay alt upper contact irregular ≈45° to c.a. hardness ≈ 6	v. blocky			"		
168.0	168.10	95%	LAPILLI TUFF AS ABOVE dk. grey, lower contact with ash tuff @45° to c.a.				00533DR		
168.10	168.68	95%	TUFF light greenish grey, soft H ≈ 1, mod blocky, strong clay alt., @168.52 5cm wide dark grey to black qtz-carb vein @50° to c.a.				"		

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Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan. 22/88	Jan. 27/88	NQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 15 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
168.68	169.5	90%	LAPILLI TUFF med. grey 20% lapilli frags in f.g. med. grey ash matrix, weak clay alt. 169.7-169.0 qtz-carb veinlets 1-2cm wide, sub-parallel to c.a.	mod. blocky			00533DR		
169.5	171.0	85%	L.T. AS ABOVE med. grey, percentage of lapilli frags increasing towards base of section, weak clay alt.	"			00534DR		
171.0	172.5	95%	CRYSTAL LAPILLI TUFF med. grey, 75% lapilli frags 2-5mm also angular frags of qtz-eye rhyolite in ash matrix, weak to mod. clay alt.	"			00535DR		
172.5	174.0	95%	C.L.T. AS ABOVE 172.5-174.20 v. blocky weak to mod. clay alt. 173.7-174.0 v. blocky, strong clay alt.				00536DR		
174.0	175.5	100%	C.L.T. AS ABOVE 174.0-174.20 v. blocky, strong clay alt. 174.20-175.5 slightly blocky, weak clay alt. fracs @35°-90° to c.a. mod. clay alt.				00537DR		
175.5	177.0	100%	C.L.T. AS ABOVE slightly blocky, weak clay alt. 176.22-176.44 light green dust lapilli crystal tuff, glomerophenocrysts up to 4mm in pale green dust tuff matrix, weak clay alt.				00538DR		
177.0	178.5	90%	C.L.T. med. to dk. grey, weak clay alt.	v. blocky & broken			00539DR		
178.5	180.0	80%	CRYSTAL LAPILLI TUFF med. grey fractures in all orientations, weak clay alt.	v. blocky			00540DR		

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Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan. 22/88	Jan. 27/88	NQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 16 of 16
Lat. 10030 N	Elev.	Dip -45°						Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length	Bearing 199°						Dep.	Length	Bearing	NGC 88-34

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
180.0	181.5	90%	CRYSTAL LAPILLI TUFF mod. blocky, weak clay alt				00541DR		
181.5	183.0	100%	C.L.T. AS ABOVE mod. blocky, weak clay alt				00542DR		
183.0	184.5	100%	C.L.T. AS ABOVE slightly blocky, weak clay alt.				00543DR		
184.5	186.0	100%	C.L.T. AS ABOVE slightly blocky, minor carb veinlets 1mm variable orientations, v. weak clay alt				00544DR		
186.0	187.5	100%	C.L.T. AS ABOVE v. slightly blocky, v. weak clay alt.				00545DR		
187.5	189.0	100%	C.L.T. AS ABOVE slightly to mod. blocky v. weak clay alt., size of lapilli frag increasing towards base @188.15-188.25 v. blocky & broken up strong clay alt.				00546DR		
189.0	190.5	100%	CRYSTAL LAPILLI TUFF gradational contact with overlying C.L.T. lapilli frags 2mm to 10mm across, mostly glomerophenocrysts, @189.25 15mm wide v.f.g. qtz veinlets @ ~10° to c.a. other minor qtz veinlets 1mm wide at various orientations				00547DR		
			********** * 190.5 END OF HOLE * * **********						

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Date Jan 23/88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

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Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet / of 29
Lat. 10075 N	Elev.	Dip -45°	265		~~189~~		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°			192°			Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
0	39.62		OVERBURDEN						
39.62	41.1	80%	VERY CARBONACEOUS MUDSTONE v. dark grey to black all clay sized partic les soft, friable grading into ash tuff @41.1				00718		
41.1	41.12	100%	TUFF med. grey color, v. hard to break, (H≈5) well consolidated minor plant frags weak clay alt.	slightly blocky			"		
41.12	42.62	100%	LITHIC ARKOSE SANDSTONE gradational contact with overlying tuff, ~75% feldspar, ~10% qtz ~15% lithic frags, well sorted, sub angular hard, weak clay alt minor carb, grain size coarsening to med. grained SST towards base of section	"			00719		
42.62	42.88	95%	LITHIC ARKOSE SST med. grey color, med. grained, v. weak clay alt, contact with underlying conglomerate @60° to c.a.	v. slightly blocky			00720		
42.88	44.12	95%	LITHIC PEBBLE CONGLOMERATE med. pebble sized, sub-rounded, with minor qtz pebbles in med. grained sandy matrix, 80% cla sts 20% matrix poorly consolidated minor plant frags, weak to mod. clay alt.				"		
44.12	45.62	100%	LITHIC PEBBLE CONGLOMERATE large granule to small pebble sized sub-rounded clasts, mostly lithics, minor qtz pebble and carbon frags in SST matrix poorly consolidated, weak to mod. clay alt				00721		

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Date Jan 30 /88 Logged By ~~D.R. Bull~~

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ		BEARING		ANGLE		GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES		Sheet 2 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
45.62	46.47	95%	LITHIC PEBBLE CONGLOMERATE AS ABOVE poorly consolidated, weak to mod. clay alt, contact with underlying carbonaceous mudstone obscured by ground core, v. approximately 80° to c.a.				00722		
46.47	47.12	90%	VERY CARBONACEOUS MUDSTONE with coal frags v. dark grey to black, v.f.g. 46.69-46.84 interbed of v. carbonaceous sandstone @~55° to c.a.				"		
47.12	48.62	90%	CARBONACEOUS MUDSTONE with coal frags, med. to v. dark grey color, soft, almost all clays, v. poorly consolidated, 47.25-47.40 coal bed v.f.g. & soft contact obscured by ground up core, becoming less carbonaceous & more slilty towards base of unit				00723		
48.62	50.12	95%	SILTSTONE med. grey color, some clays poorly consolidated, quite soft, friable, minor carbonaceous plant frags at base of section	mod. blocky			00724		
50.12	51.62	90%	V. CARBONACEOUS MUDSTONE med. to dark grey color				00725		
51.62	53.12	95%	V. CARBONACEOUS MUDSTONE AS ABOVE some coal frags becoming almost all carbon (coal) at base of section				00726		
53.12	53.95	95%	EXTREMELY CARBONACEOUS MUDSTONE with coal interbeds 3-5cm wide @50° to c.a. @53.12-53.40m gradational contact with underlying carbonaceous siltstone				00727		
53.95	54.62	100%	CARBONACEOUS SILTSTONE med. grey color, minor plant frags @54.50-54.62m finely laminated coal interbeds @45° to c.a.				"		

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NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES		Sheet 3 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
54.62	54.85	100%	CARBONACEOUS SILTSTONE med. grey color, with finely laminated coal interbeds @45° to c.a. contact with underlying mudstone @50° to c.a.	mod. blocky			00728		
54.85	55.25	95%	V. CARBONACEOUS MUDSTONE with coal interbeds @45° to c.a., contact with underlying mudstone @~50° to ca.	"			"		
55.25	55.96	95%	CARBONACEOUS MUDSTONE med. grey color	"			"		
55.96	56.12	85%	EXTEMELY CARBONACEOUS MUDSTONE or clay rich coal, v. broken up, fissile soft & friable, @56.12 contact with underlying mudstone @~50° to c.a.				"		
56.12	57.62	95%	CARBONACEOUS MUDSTONE med. grey color, minor plant frags, 57.0-57.62 minor coal laminae @60° to c.a., minor sericite <1%, weak clay alt				00729		
57.62	57.83	90%	CARBONACEOUS MUDSTONE AS ABOVE minor coal laminae, soft, mod. clay alt.				00730		
57.83	58.05	100%	LITHIC ARKOSE SANDSTONE coarse grained, slightly carbonaceous minor coal laminae @70° to c.a., lower contact @60° to c.a.				"		
58.05	58.25	95%	FELDSPATHIC SST fine grained, distinct change of grain size from overlying unit at 58.05 well consolidated, weak clay alt, contact with underlying coal bed @~80° to c.a.	slightly blocky			"		

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Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ		BEARING		ANGLE		GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES		Sheet 4 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
58.25	58.33	95%	COAL BED, BITUMINOUS mod. broken up grading into underlying carbonaceous mudstone				00730		
58.33	59.12	90%	CARBONACEOUS MUDSTONE grading into siltstone with conglomeritic sandstone interbeds towards bottom of section, mod. clay alt.				"		
59.12	59.25	100%	COARSE GRAINED FELDSPATHIC/LITHIC SNADSTONE grading into conglomerate				00731		
59.25	60.62	100%	LITHIC PEBBLE CONGLOMERATE sub-angular to sub-rounded granule to large pebble size clasts in med grained sand martix, matrix supported well consolidated, weak clay alt.	slightly blocky			"		
60.62	62.12	95%	LITHIC PEBBLE CONGLOMERATE AS ABOVE minor suricite as coatings on clasts, minor amounts of emerald green mineral (fuschite-mariposite?) mod. clay alt.				00732		
62.12	63.62	90%	LITHIC PEBBLE CONGLOMERATE AS ABOVE poorly consolidated, minor sericite & green maineral (see above) mod. clay alt.				00733		
63.62	65.12	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE poorly consolidated, mod. clay alt., minor sericite & clots of emerald green mineral (see above) green mineral has platy habit of mica (fuschite/mariposte?)	v. blocky			00734		
65.12	66.62	95%	LITHIC PEBBLE CONGLOMERATE AS ABOVE minor carbon frags, poorly consolidated , mod. clay alt.				00735		

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NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ					GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES		Sheet 5 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
66.62	68.12	85%	LITHIC PEBBLE CONGLOMERATE AS ABOVE 66.84-67.02 bed of med. gr. lithic SST @~55° to c.a. minor clots of emerald green mineral (see above) poorly consolidated, mod. clay alt.				00736		
68.12	69.62	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE poorly to mod. consolidated mod. clay alt. minor clots of green mineral 68.32-68.65 interbed of mudstone, minor sercite upper contact irregular lower contact ~70° to c.a.				00737		
69.62	71.12	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE minor clots of green mineral, poorly consolidated, mod. to strong clay alt.	mod. blocky			00738		
71.12	72.62	95%	LITHIC PEBBLE CONGLOMERATE AS ABOVE				00739		
72.62	74.12	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE some clasts up to small cobble size, minor clots of green mineral (see above) 73.02-73.30 bed of med. gr. lithic SST @~50° to c.a.				00740		
74.12	75.62	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE minor clots of green mineral (see above), mod. well consolidated, weak clay alt.				00741		
75.62	77.12	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE minor clots of green mineral, mod. well consolidated, weak clay alt.				00742		
77.12	78.62	95%	LITHIC PEBBLE CONGLOMERATE AS ABOVE mod. well consolidated, weak to mod. clay alt.	mod. blocky			00743		

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NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES		Sheet 6 of 29
				RECORDED	CORRECTED	RECORDED	CORRECTED			
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
78.62	79.92	90%	LITHIC PEBBLE CONGLOMERATE AS ABOVE mod. well consolidated, weak to mod. clay alt. 78.80-79.0 bed of med. gr. lithic SST upper contact 55° to c.a. lower contact gradational	mod. blocky			00744		
79.92	80.12	100%	LITHIC SANDSTONE, med. gr. upper contact semi=gradational, approx. 50° to c.a.				"		
80.12	81.62	100%	LITHIC SANDSTONE AS ABOVE med. gr. becoming coarser grained lower in section until at 80.40 semi-gradational contact @~50° c.a. into lithic pebble conglomerate as above minor sericite				00745		
81.62	81.65	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE sub-gradational contact with underlying SST @~60° to c.a.				00746		
81.65	83.12	100%	LITHIC SANDSTONE fine to med. gr., med. grey color, clay matrix, minor carbonaceous laminae @50° to c.a. minor sericite, weak to mod. clay alt.	slightly blocky			"		
83.12	83.27	100%	LITHIC SST AS ABOVE weak clay alt, minor sericite, contact with underlying conglomerate @60° to c.a.				00747		
83.27	84.62	100%	LITHIC PEBBLE CONGLOMERATE sub-angular to sub-rounded granule to large pebble sized clasts of various lithologies, mostly rhyolites & tuffs some mafics in f.g. sand & clay matrix. 90% clasts, 10% matrix,				"		
			traces of green mineral (see above) v. weak clay alt.						

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Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 7 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
84.62	85.52	90%	LITHIC PEBBLE CONGLOMERATE AS ABOVE clast size reducing, increase in matrix & interbeds of coarse sands contacts gradational, weak clay alt, lower contact gradational	mod. blocky			00748		
85.52	86.12	90%	LITHIC SST fine to med. gr., med. grey color, clay matrix, minor carbonaceous laminae @~50° to c.a., weak clay alt. minor sericite	"			"		
86.12	86.60	95%	LITHIC SST AS ABOVE lower contact with underlying conglomerate @~65° to c.a.				00749		
86.60	87.62	90%	LITHIC PEBBLE CONGLOMERATE AS ABOVE				"		
87.62	89.07	95%	LITHIC PEBBLE CONGLOMERATE AS ABOVE weak clay alt. contact with underlying SST @60° to c.a.	slightly blocky			00750		
89.07	89.12	100%	LITHIC SST fine to med. gr. as above	"			"		
89.12	89.55	90%	LITHIC SST AS ABOVE v. weak clay alt. 89.30-89.55 FAULT ZONE polished fault surfaces with slicken sides, surfaces @~30° to c.a.	mod. to v. blocky			00751		
89.55	90.62	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE abrupt change from overlying SST no contact, probably lost in fault w. clay alt. v. minor sericite	v. slightly blocky			"		

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NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES		Sheet 8 of 29
				RECORDED	CORRECTED	RECORDED	CORRECTED			
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
90.62	92.12	95%	LITHIC PEBBLE CONGLOMERATE AS ABOVE v. weak clay alt. minor sericite, @90.7-90.87 &91.44-91.53 interbeds of lithic sandstone with minor carbonaceous, laminae @45° to c.a.	slightly blocky			00752					
92.12	93.62	90%	LITHIC PEBBLE CONGLOMERATE AS ABOVE 92.12-92.96 slightly blocky, w. clay alt. 92.96-93.62 mod. to v. blocky & broken, mod. clay alt. @92.53 f.g. sand & siltstone interbed 7mm wide ~35° to c.a.				00753					
93.62	95.12	95%	LITHIC CONGLOMERITIC SANDSTONE dirty med. grey color, carbonaceous soft, mod. to strong clay alt.	v. blocky			00754					
95.12	96.35	80%	LITHIC CONGLOMERITIC SANDSTONE AS ABOVE some beds of lithic pebble conglomerate, contacts gradational, mod. clay alt., contact with underlying siltstone @~60° to c.a.	mod. blocky			00755					
96.35	96.62	85%	SILTSTONE dirty med. grey color, quite soft, mod. clay alt., towards base of section grain size coarsening to med. grained sandstone, minor sericite	v. blocky			"					
96.62	96.90	100%	LITHIC SANDSTONE med. gr., med. grey color w. clay alt., contact with underlying conglomerate @~60° to c.a.	mod. blocky			00756					
96.90	98.12	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE weak to mod. clay alt., minor sericite, minor clots of emerald green mineral (see above)	slightly blocky			"					
98.12	99.62	95%	LITHIC PEBBLE CONGLOMERATE AS ABOVE				00757					

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Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES		Sheet 9 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
99.62	99.71	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE contact with underkying SST @60° to c.a.				00758		
99.71	101.05	90%	LITHIC SANDSTONE gr. size varies gradationaly from v.f.g. sand to coarse sand, mod. carbonaceous high clay content in martix weak to mod. clay alt contact with underlying conglomerate @55° to c.a.				"		
101.05	101.12	95%	LITHIC PEBBLE CONGLOMERATE AS ABOVE minor coal frags v. weak clay alt.				"		
101.12	102.11	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE minor coal frags, weak clay alt. contact with underlying mudstone @45° to c.a.	slightly blocky			00759		
102.11	102.62	80%	SILTSTONE dk. grey color, soft, strong clay alt.	v. blocky			"		
102.62	103.90	95%	SILTSTONE AS ABOVE carbonaceous, mod. clay alt lower contact sub-gradational ≈50° to c.a.	v. blocky			00760		
103.90	104.12	100%	LITHIC PEBBLE CONGLOMERATE sub rounded granule to small pebble sized clasts in f.g. sand & clay matrix weak clay alt				"		
104.12	104.22	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE contact with underlying mudstone @55° to c.a.				00761		

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NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES							SURVEYED CO-ORDINATES		Sheet 10 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat. / Elev. / Dip		HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep. / Length / Bearing		NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
104.22	105.62	95%	CARBONACEOUS MUDSTONE, GRADING INTO LITHIC SANDSTONE at 104.50 slightly blocky, weak clay alt., @105.62 contact with underlying pebble conglomerate @≈50° to c.a.				00761		
105.62	107.12	100%	LITHIC PEBBLE CONGLOMERATE AS ABOVE minor interbeds of coarse gr. sandstone @~70° to c.a. weak clay alt.				00762		
107.12	108.62	95%	LITHIC PEBBLE CONGLOMERATE AS ABOVE weak clay alt.	slightly blocky			00763		
108.62	110.12	90%	LITHIC PEBBLE CONGLOMERATE AS ABOVE 108.62-109.35 & 110.05-110.12 v. slightly blocky weak clay alt 109.35-110.05 v. blocky & broken, strong clay alt				00764		
110.12	110.35	95%	LITHIC PEBBLE CONGLOMERATE weak to mod. clay alt lower contact @50° to c.a.	mod. blocky			00765		
110.35	111.13	90%	MUDSTONE & SILTSTONE carbonaceous, weak to mod. clay alt., lower contact obscured by ground up core	v. blocky			"		
111.13	111.62	100%	CONGLOMERITIC LITHIC SNADSTONE v. weak clay alt. grading into med. gr. sandstone at base of section	slightly blocky			"		
111.62	111.92	100%	FELDSPATHIC/LITHIC SANDSTONE med. gr. gradational caontact with underlying conglomeritic sandstone				00766		

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NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size
Jan 28/88		HQ

FIELD CO-ORDINATES

Lat. 10075 N	Elev.	Dip -45°
Dep. 10150 E	Length 271.27	Bearing 199°

DIP TESTS

DEPTH	BEARING		ANGLE	
	RECORDED	CORRECTED	RECORDED	CORRECTED
265		189		54°

PROPERTY	PROJECT No.	N.T.S. No.
GREW CREEK	332	105K/2

SURVEYED CO-ORDINATES

			Sheet // of 29
Lat.	Elev.	Dip	HOLE No.
Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
111.92	112.42	100%	CONGLOMERITIC LITHIC SANDSTONE AS ABOVE veinlets 0.5 to 1.0 cm wide of soft grey clay material sub-parallel to c.a., weak to mod. clay alt	slightly blocky			00766		
112.42	113.12	100%	FELDSPATHIC LITHIC SST AS ABOVE med. gr. bedding @45° to c.a., minor carbonaceous laminae at 45° to c.a. v. weak clay alt.	slightly blocky			"		
113.12	113.31	100%	FELDSPATHIC LITHIC SST AS ABOVE minor carbonaceous laminae @45° to c.a., v. weak clay alt., contact with underlying conglomerate @45° to c.a.	not blocky			00767		
113.31	114.45	100%	LITHIC PEBB CONGLOMERATE AS ABOVE v. weak clay alt	slightly blocky			"		
114.45	114.62	100%	CARBONACEOUS MUDSTONE & SILTSTONE mod. consolidated, v. weak clay alt.	"			"		
114.62	116.12	95%	CARBONACEOUS MUDSTONE & SILTSTONE mod. consolidated w. clay alt., gr. size coarsening to f.g. sandstone at base of unit				00768		
116.12	117.58	95%	FELDSPATHIC LITHIC SANDSTONE with minor siltstone & mudstone interbeds, w. to mod. clay alt. contact with underlying c.g. SST @45°	slightly blocky			00769		
117.58	117.62	95%	FELDSPATHIC LITHIC SANDSTONE coarse gr., v. weak clay alt.	"			"		

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Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES		Sheet 12 of 29
				RECORDED	CORRECTED	RECORDED	CORRECTED			
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
117.62	117.95	95%	FELDSPATHIC LITHIC SANDSTONE coarse gr., v. weak clay alt., lower contact obscured by ground core	v. blocky			00770		
117.95	119.12	90%	SILTSTONE & MUDSTONE carbonaceous, weak to mod. clay alt.	slightly blocky			"		
119.12	119.26	90%	SILTSTONE & MUDSTONE carbonaceous, soft, mod. clay alt., gradational contact with underlying tuff	v. blocky			00771		
119.26	120.62	95%	CRYSTAL LITHIC TUFF with minor crystal & lithic lapilli frags, v. dirty looking, lots of clays, carbonaceous, weak to mod. clay alt. minor carb. @119.83 & 119.84 qtz-carb. veinlets 5mm wide @70° to c.a.	mod. blocky			"		
120.62	121.92	100%	CRYSTAL LITHIC TUFF WITH LAPILLI FRAGS AS ABOVE carbonaceous in part, minor carb veinlets, gradational contact with underlying rhyolitic tuff	slightly blocky			00772		
121.92	122.12	95%	LAPILLI TUFF with minor lapilli frags weak clay alt. except for 112.92-122.05 v. broken, strong clay alt.	v. slightly blocky			"		
122.12	122.4	85%	LAPILLI TUFF AS ABOVE contact orientation with underlying crystal tuff unit unknown due to ground up core				00773		
122.4	123.42	95%	CRYSTAL LAPILLI TUFF dk. grey, most frags 0.5 to 2mm across some up to 6mm, minor lithic frags, w. clay alt., contact with underlying ash tuff ~50° to c.a.	mod. blocky			"		

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NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 13 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev. / Dip	HOLE No.
Dep 10150 E	Length 271.27	Bearing 199°						Dep.	Length / Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
123.42	123.62	85%	RHYOLITIC LAPILLI TUFF | v.f.g. minor lapilli frags off white - cream color, strong clay alt.	v. blocky			00773		
123.62	125.12	100%	RHYOLITIC LAPILLI TUFF AS ABOVE weak clay alt., minor clay filled fractures @45°~65° to c.a.	slightly blocky			00774		
125.12	125.28	95%	RHYOLITIC LAPILLI TUFF AS ABOVE w. clay alt., contact with underlying unit @40° to c.a.	"			00775		
125.28	126.62	95%	VOLCANICLASTIC SANDSTONE | f.g. dk. grey to black, grading into black carbonaceous siltstone & mudstone @~125.95, w.-mod. to strong clay alt.	v. blocky			"		
126.62	127.33	95%	VOLCANICLASTIC SILTSTONE & MUDSTONE dk. grey to black, w. to mod. clay alt.,	"			00776		
127.33	127.48	100%	CRYSTAL LAPILLI TUFF | bed @25° to c.a. 2mm to 8mm lapilli in f.g. matrix (crystal ash), v. weak clay alt.	not blocky			"		
127.48	128.0	90%	RHYOLITIC TUFF | light cream/grey color 127.48-127.68 strong clay alt. 127.68-128.0 weak clay alt. lower contact obscured by blocky core approx. 50° to c.a.	v. blocky			"		
128.0	128.12	90%	CARBONACEOUS MUDSTONE | dk. grey to black	"			"		

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NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size
Jan 28/88		HQ

FIELD CO-ORDINATES		
Lat. 10075 N	Elev.	Dip -45°
Dep. 10150 E	Length 271.27	Bearing 199°

DIP TESTS				
DEPTH	BEARING		ANGLE	
	RECORDED	CORRECTED	RECORDED	CORRECTED
265		189		54°

PROPERTY	PROJECT No.	N.T.S. No.
GREW CREEK	332	105K/2

SURVEYED CO-ORDINATES			Sheet 14 of 29
Lat.	Elev.	Dip	HOLE No.
Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
128.12	128.80	100%	CARBONACEOUS MUDSTONE dk. grey to black color, semi hard H≈3, v. weak caly alt., grading into siltstone a f.g. SST at base, bedding @50° to c.a.	mod. blocky			00777		
128.80	128.96	100%	VOLCANICLASTIC FELDSPATHIC LITHIC SANSTONE f.g. dk. grey color, v. weak clay alt., minor sericite, contact with underlying c.g. SST	slightly blocky			"		
128.96	129.24	100%	CRYSTAL & FLITHIC FRAG. LAPILLI TUFF 2mm to 5mm lapilli frags, minor ash, hard competant	hardly blocky			"		
129.24	129.62	100%	VOLCANICLASTIC SANDSTONE fine to med. gr., grading into c.g. sandstone, sub-angular to sub-rounded clasts up to large granule size of various (volcanic) lithologies, v. weak clay alt.	slightly blocky			"		
129.62	131.12	100%	VOLCANICLASTIC SANDSTONE c.g., grading into conglomeritic sandstone, with sub-rounded clasts up to small pebble size in med. to c.g. matrix, v. weak clay alt.	"			00778		
131.12	132.62	100%	VOLCANICLASTIC CONGLOMERATE sub-angular to sub-rounded, mostly lithic clasts up to med. pebble size in c.g. sand matrix, v. weak clay alt.	v. slightly blocky			"		
		95%	@131.55 gradational change to coarse to med. gr. SST						
			@131.95 gradational change to siltstone & carbonaceous mudstone with blebs of f.g. Py						
132.62	133.05	95%	VOLCANICLASTIC SILTSTONE, carbonaceous, w. clay alt. 132.65-132.96 bed of rhyolitic ash tuff @45° to c.a. mod. to strong clay alt.	mod. blocky			00780		

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Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88	-	HQ					GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES		Sheet 15 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
133.05	133.78	100%	VOLCANICLASTIC CONGLOMERITIC SANDSTONE sub-rounded granule to small pebble sized clasts in med. gr. sand matrix. v. weak clay alt	v. slightly blocky			00780					
133.78	134.12	90%	VOLCANICLASTIC CONGLOMERITIC SANDSTONE AS ABOVE much dirtiier, increase in silt & clay particles, mod. clay alt.				"					
134.12	134.7	85%	VOLCANICLASTIC SANDSTONE slightly conglomeritic, mod. to strong clay alt.	v. blocky			00781					
134.7	135.62	85%	RHYOLITIC TUFF (dust & ash) dirty grey color, mod. clay alt, minor Py, diss. in cubes up to 4mm	"	1		"					
135.62	137.12	50%	RHYOLITIC TUFF AS ABOVE numerous black carbonaceous beds minor coal, some re-working apparent, mod. to strong clay alt.	"			00782					
137.12	138.59	95%	RHYOLITIC TUFF becoming less carbonaceous & less blocky, with less clay alt., until at 137.55 it becomes competant & hard, with v. minor clay alt.	slightly blocky			00783					
138.59	138.62	100%	QTZ EYE RHYOLITE fine to med. gr. with qtz eyes up to 4mm across, v. weak clay alt.	"			"					
138.62	140.12	100%	QTZ EYE RHYOLITE AS ABOVE blebs of v.f.g. Py up to 8mm, also diss., slightly blocky, v. weak clay alt., pervasively invaded by qtz-carb. veinlets 0.5 to 5mm at variable orientations		3		00784					

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size
Jan 28/88		HQ

FIELD CO-ORDINATES

Lat. 10075 N	Elev.	Dip -45°
Dep. 10150 E	Length 271.27	Bearing 199°

DIP TESTS

DEPTH	BEARING		ANGLE	
	RECORDED	CORRECTED	RECORDED	CORRECTED
265		189		54°

PROPERTY	PROJECT No.	N.T.S. No.
GREW CREEK	332	105K/2

SURVEYED CO-ORDINATES

Lat.	Elev.	Dip	Sheet 1 of 29
Dep.	Length	Bearing	HOLE No. NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
140.12	141.62	95%	QTZ EYE RHYOLITE AS ABOVE 140.12-140.5 pervasively invaded by qtz-carb. veinlets, core is competant, slightly blocky, v. weak clay alt. 140.5-141.21. v. blocky, with strong clay alt.		<1		00785		
			141.21-141.62 competant, hard, v. slightly blocky, weak clay alt. minor diss f.g. Py						
141.62	142.58	100%	QTZ EYE RHYOLITE fine to med. gr. with qtz eyes 1-3mm across, v. weak clay alt. stringers of f.g. Py, also diss.	slightly blocky	5		00786		
142.58	143.12	95%	QTZ-EYE RHYOLITE f.g. med. grey color appears reworked, prevasively invaded by stringers of f.g. Py & qtz, w. clay alt.	mod. blocky	<5		"		
143.12	144.62	95%	QTZ-EYE RHYOLITE AS ABOVE with blebs of f.g. Py, appearance of rhyolitic lithic frags suggests this may be a tuff, but no clear cut contact is apparent, w. clay alt.	"			00787		
144.62	146.12	95%	RHYOLITIC TUFF crystal & lithic lapilli frags in ash matrix, med. grey color, w. clay alt., minor blebs up to 4mm of f.g. Py	slightly blocky	<1		00788		
146.12	147.62	95%	RHYOLITIC TUFF AS ABOVE blebs of f.g. Py up to 15mm across, also diss, w. clay alt.	"	5		00789		
147.62	149.12	95%	RHYOLITIC TUFF AS ABOVE blebs of f.g. Py up to 10mm across, w. clay alt.	mod. blocky	1		00790		

DRILL LOG 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 17 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
149.12	150.62	100%	RHYOLITIC TUFF lapilli & lithic frags up to 6mm in f.g. ash matrix, pervasively invaded by qtz-carb veinlets 1-3mm across, variable orientations minor diss. Py also minor blebs				00791		
150.62	152.12	90%	RHYOLITIC TUFF AS ABOVE decrease in Py blebs & qtz-carb blebs after 150.90 v. weak clay alt. 150.90-152.05 v. blocky, weak to mod. clay alt. 152.05-152.12 not blocky, v. weak clay alt.	slightly blocky			00792		
152.12	152.40	95%	RHYOLITIC TUFF large angular rhyolitic lithic frags in dust & ash matrix, v. weak clay alt.	slightly blocky			00793		
152.40	153.62	90%	RHYOLITIC CRYSTAL LITHIC LAPILLI TUFF w. clay alt., strong clay alt. in fractures, mostly at ~80° to c.a.	mod. blocky			"		
153.62	155.12	95%	RHYOLITIC CRYSTAL LITHIC LAPILLI TUFF w. clay alt. @154.84 chal veinlet with v.f.g. Py orientation obscure	slightly blocky			00794		
155.12	156.62	80%	RHYOLITIC CRYSTAL LITHIC LAPILLI TUFF v. weak clay alt. blebs & stringers of v.f.g. Py	v. slightly blocky			00795		
156.62	158.12	95%	RHYOLITIC CRYSTAL LITHIC LAPILLI TUFF v. weak clay alt., blebs & stringers of v.f.g. Py	"			00796		
158.12	159.62	95%	RHYOLITIC CRYSTAL LITHIC LAPILLI TUFF AS ABOVE				00797		

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size
Jan 28/88		HQ

FIELD CO-ORDINATES		
Lat. 10075 N	Elev.	Dip -45°
Dep. 10150 E	Length 271.27	Bearing 199°

DIP TESTS				
DEPTH	BEARING		ANGLE	
	RECORDED	CORRECTED	RECORDED	CORRECTED
265		189		54°

PROPERTY	PROJECT No.	N.T.S. No.
GREW CREEK	332	105K/2

SURVEYED CO-ORDINATES			Sheet 18 of 29
Lat.	Elev.	Dip	HOLE No.
Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
159.62	160.7	100%	RHYOLITIC CRYSTAL/LITHIC LAPILLI TUFF lapilli sized frags in ash matrix hard, competant, v. weak clay alt contact with underlying unit @35° to c.a.	slightly blocky			00798		
160.7	161.12	100%	QTZ EYE RHYOLITE PROPHYRY hard & competant, v.f.g. purpleish grey groundmass with phenocrysts of qtz & feldspar, v. weak clay alt., minor qtz veinlets 1-4mm wide, variable orientations	mod. blocky			"		
161.12	161.54	95%	QTZ EYE RHYOLITE PORPHYRY AS ABOVE lower contact obscrued by ground core				00799		
161.54	162.62	100%	RHYOLITIC CRYSTAL/LITHIC LAPILLI TUFF 2-15mm lapilli sized crystal, minor lithic frags in ash matrix hard, competant, w. clay alt., minor blebs of v.f.g. Py up to 7mm across	slightly blocky			"		
162.62	164.12	100%	RHYOLITIC CRYSTAL/LITHIC LAPILLI TUFF AS ABOVE				00800		
164.12	165.62	100%	RHYOLITIC CRYSTAL/LITHIC LAPILLI TUFF AS ABOVE minor blebs of f.g. Py @165.28 qtz-carb veinlet 2cm wide @~40° to c.a. @165.60 qtz-carb veinlet 5mm wide @~50° to c.a.		1		00801		
165.62	167.12	100%	R C/L LAPILLI TUFF AS ABOVE minor blebs of f.g. Py @165.63 qtz carbonate veinlet 10mm wide @40° to c.a.		1		00802		
167.12	168.62	100%	R C/L LAPILLI TUFF AS ABOVE @167.80-168.40 minor qtz veinlets up to 5mm wide @ various orientations, minor blebs & small stringers of v.f.g. Py		1		00803		

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES		Sheet 19 of 29
				RECORDED	CORRECTED	RECORDED	CORRECTED			
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
168.62	170.12	100%	RHYOLITIC CRYSTAL/LITHIC LAPILLI TUFF 2-15mm lapilli sized crystal & minor lithic frags in ash matrix, hard, competant, v. weak clay alt.	v. slightly blocky			00804					
170.12	171.62	95%	R C/L LAPILLI TUFF AS ABOVE weak clay alt., 170.55-171.0 qtz veinlets 2-8mm wide, mostly at 45° to c.a.	slightly blocky			00805					
171.62	173.12	95%	R C/L LAPILLI TUFF AS ABOVE v. weak clay alt. @171.70-171.97 network of qtz veinlets up to 15mm wide at 10° & 40° to c.a.	v. slightly blocky			00806					
173.12	174.62	90%	R C/L LAPILLI TUFF AS ABOVE slightly blocky, with weak clay alt., except 173.33-173.50 v. blocky & broken strong clay alt 174.04-174.30 v. blocky & broken strong clay alt.				00807					
174.62	176.12	90%	R C/L LAPILLI TUFF AS ABOVE slightly blocky, v. weak clay alt, except, 175.26-175.85 v. blocky, strong clay alt.				00808					
176.12	177.62	100%	R C/L LAPILLI TUFF AS ABOVE mod. blocky, weak to mod. clay alt., strong clay alt. in fractures				00809					
177.62	179.12	95%	R C/L LAPILLI TUFF AS ABOVE slightly blocky, weak clay alt, except 178.15-178.75 v. blocky, mod. to strong clay alt.				00810					
179.12	180.62	100%	R C/L LAPILLI TUFF AS ABOVE slightly blocky, weak clay alt., except 179.15-179.25 & 179.45-179.55 v. blocky & broken strong clay alt				00811					

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES		Sheet 2 of 29
				RECORDED	CORRECTED	RECORDED	CORRECTED			
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
180.62	182.12	100%	RHYOLITIC CRYSTAL/LITHIC LAPILLI TUFF AS ABOVE slightly blocky, weak clay alt.				00812					
182.12	183.62	95%	R C/L LAPILLI TUFF AS ABOVE slightly blocky, w. clay alt., except 183.15-183.62 v. blocky, mod. to strong clay alt.				00813					
183.62	185.12	85%	R C/L LAPILLI TUFF AS ABOVE v. blocky & broken, mod. clay alt. @184.50 strong silicification, minor carb.				00814					
185.12	186.62	100%	R C/L LAPILLI TUFF AS ABOVE v. weak clay alt., minor clay filled fractures	slightly blocky			00815					
186.62	188.12	90%	R C/L LAPILLI TUFF AS ABOVE v. weak clay alt., except 187.30-187.45 v. broken, mod. to strong clay alt.	"			00816					
188.12	189.62	100%	R C/L LAPILLI TUFF AS ABOVE v. weak clay alt., 188.45-188.55 minor carb veinlets 1mm, variable orientations 188.67-188.76 frac zone 50° to c.a. mod. clay alt.	"			00817					
189.62	191.12	100%	R C/L LAPILLI TUFF AS ABOVE v. weak clay alt., minor clay filled frac 189.79-189.85 ash tuff bed @70° to c.a. 191.04-191.12 minor carb veinlets 3-5mm variable orientations	"			00818					
191.12	192.62	100%	R C/L LAPILLI TUFF AS ABOVE weak clay alt. 191.12-191.45 minor carb veinlets 2-5mm variable orientations 191.50 & 191.60 qtz veinlets 2-3cm wide v.f.g. @50° to c.a.	v. slightly blocky			00819					

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES		Sheet 2 / of 29
				RECORDED	CORRECTED	RECORDED	CORRECTED			
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
192.62	194.12	90%	RHYOLITIC CRYSTAL /LITHIC LAPILLI TUFF med. grey color lapilli frags 2-8mm across in ash matrix, slightly blocky, v. weak clay alt., except 192.90-193.17 v. blocky, mod. clay alt.				00820		
			@193.0 - 193.15 qtz veinlet, 1-5cm wide, sub parallel to c.a.						
194.12	195.62	95%	R C/L LAPILLI TUFF AS ABOVE slightly blocky, weak to mod. clay alt., @194.30 f.g. dk. drey qtz veinlet 12mm wide @30° to c.a.				00821		
195.62	197.12	95%	R. C/L LAPILLI TUFF AS ABOVE slightly blocky, weak to mod. clay alt., minor 1mm qtz veinlets, variable orientations				00822		
197.12	198.62	90%	R. C/L LAPILLI TUFF AS ABOVE @197.70 qtz veinlet, 2mm wide @30° to c.a.				00823		
198.62	200.12	95%	R. C/L LAPILLI TUFF AS ABOVE slightly blocky, v. weak clay alt., except 198.73-199.0 mod. blocky, weak to mod clay alt. 199.4-199.55 mod. blocky, weak to mod. clay alt.				00824		
			@198.62 2mm qtz veinlet 35° to c.a. @200.06 5mm qtz veinlet, (banded chal) 45° to c.a.						
200.12	201.62	95%	R. C/L LAPILLI TUFF AS ABOVE slightly blocky, v. weak clay alt., @200.18 4mm wide f.g. qtz veinlet @10° to c.a.				00825		

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	GREW CREEK	332	105K/2
FIELD CO-ORDINATES								SURVEYED CO-ORDINATES		Sheet 22 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
201.62	203.12	100%	RHYOLITIC CRYSTAL/LITHIC LAPILLI TUFF med. grey color 2-12mm lapilli frags in ash matrix, v. slightly blocky v. weak clay alt. @202.05 & 203.0 v.f.g. rhyolitic dyklets 3-6mm wide sub parallel to c.a.				00826		
203.12	204.62	95%	R. C/L LAPILLI TUFF AS ABOVE hardly blocky at all, v. weak clay alt.				00827		
204.62	206.12	45%	R. C/L LAPILLI TUFF AS ABOVE v. blocky & broken, v. strong clay alt., partly washed away, minor qtz-carb veinlets, orientations obscured by broken core				00828		
206.12	207.62	75%	R. C/L LAPILLI TUFF v. blocky & broken, strong clay alt., minor qtz-carb veinlets, orientations variable				00829		
207.62	209.12	95%	R. C/L LAPILLI TUFF v. slightly blocky, weak clay alt., minor qtz-carb veinlets 1-2mm variable orientations				00830		
209.12	210.62	100%	R. C/L LAPILLI TUFF v. slightly blocky, v. weak clay alt., except 209.12-209.24 v. blocky & broken, strong clay alt. minor qtz-carb veinlets 1-5mm variable orientations				00831		
210.62	212.12	100%	R. C/L LAPILLI TUFF AS ABOVE hardly blocky at all, v. weak clay alt. minor qtz-carb veinlets 1-3mm variable orientations @211.70 dk. grey chal veinlet 6mm wide @45° to c.a.				00832		
212.12	213.62	100%	R. C/L LAPILLI TUFF AS ABOVE 212.28 -becoming strongly silicified with numerous qtz-carb veinlets up to 5mm wide, variable orientations 213.20-brecc with qtz carb matrix up to 40% of core v.f.g. Py diss throughout qtz-carb		1		00833		

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ		BEARING		ANGLE		GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES		Sheet 23 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
213.62	215.12	95%	RHYOLITIC CRYSTAL/LITHIC LAPILLI TUFF med. grey color 2-20mm lapilli frags in ash matrix 213.62-213.85 mod. blocky, weak to mod. clay alt. 213.85-215.12 slightly blocky, hard, v. weak clay alt		1		00834		
			213.80-213.95 brecc with qtz-carb matrix, minor f.g. Py 214.70-215.10 brecc with qtz-carb matrix, minor f.g. Py elsewhere minor qtz-carb veinlets 1-3mm variable orientations 214.55 qtz eye rhyolite dykelet 2-15 mm wide @ ~40° to c.a.					
215.12	216.62	95%	R. C/L LAPILLI TUFF AS ABOVE slightly blocky, weak clay alt., stronger in fracs, several qtz-eye rhyolite dykelets 1-5mmwide at variable orientations, mostly sub-parallel to c.a.				00835		
216.62	218.12	95%	R. C/L LAPILLI TUFF AS ABOVE slightly blocky, w. clay alt. minor qtz-eye rhyolite dykelets 1-5mm wide, variable orientations @216.63 qtz-eye rhyolite dykelet variable 1-30mm sub-parallel to c.a.				00836		
			@216.90-217.03 qtz-eye rhyolite dykelet 6cm wide, @35° to c.a.						
218.12	219.62	95%	R. C/L LAPILLI TUFF AS ABOVE slightly blocky, w. clay alt. except 218.14-218.24 mod. blocky, mod. to strong clay alt. minor qtz-carb veinlets 1-4mm variable orientation				00837		
			also minor dykelets of qtz-eye rhyolite @219.20-219.47 qtz-eye rhyolite dyke ≥ 5cm sub parallel to c.a.						
219.62	220.23	100%	R. C/L LAPILLI TUFF AS ABOVE slightly blocky, w. clay alt. minor rhyolitic dykelets ~1mm variable orientations minor qtz-carb veinlets 1-3mm variable orientations				00838		

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size
Jan 28/88		HQ

FIELD CO-ORDINATES		
Lat. 10075 N	Elev.	Dip -45°
Dep. 10150 E	Length 271.27	Bearing 199°

DIP TESTS				
DEPTH	BEARING		ANGLE	
	RECORDED	CORRECTED	RECORDED	CORRECTED
265		189		54°

PROPERTY	PROJECT No.	N.T.S. No.
GREW CREEK	332	105K/2

SURVEYED CO-ORDINATES			
Lat.	Elev.	Dip	HOLE No.
Dep.	Length	Bearing	NGC 88-36

Sheet 24 of 29

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
220.23	221.12	100%	CRYSTAL LAPILLI TUFF upper contact @70° to c.a. less matrix & more crystals than overlying unit, slightly blocky, w. clay alt. except, 220.55-221.12 mod. blocky, mod. clay alt.				00838		
221.12	222.62	100%	CRYSTAL LAPILLI TUFF med. grey 75% crystal lapilli frags 2-5mm, minor lithic frags in 25% ash matrix, slightly blocky, w. clay alt. @221.16m qtz-carb veinlet v.f.g. 12mm wide @30° to c.a.				00839		
222.62	224.12	90%	C.L.T. AS ABOVE slightly blocky, w. clay alt., except 223.0-224.12 v. blocky & broken, strong clay alt, minor qtz veinlets, orientation obscured by broken core				00840		
224.12	225.62	90%	RHYOLITIC CRYSTAL LAPILLI TUFF upper contact obscured in ground up core, 40% lapilli crystal frags 2-5mm in ash matrix, 224.12-224.35 & 225.0-225.57 v. broken up, strong clay alt.				00841		
			224.35-225.0 slightly blocky, w. clay alt. minor qtz veinlets, variable orientations						
225.62	227.12	90%	R C L T AS ABOVE mod. to v. blocky, mod. to strong clay alt-, brecc with clay rich matrix minor qtz-carb veinlets, variable orientations				00842		
227.12	228.62	50%	R C L T AS ABOVE v. blocky, strong clay alt 50% core lost				00843		
228.62	230.12	80%	R C L T AS ABOVE mod. blocky, mod. clay alt minor qtz-carb veinlets 1-4mm & rhyolitic dykelets 3-5mm at variable orientations				00844		

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88	-	HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES		Sheet 25 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
230.12	230.3	100%	RHYOLITIC CRYSTAL LAPILL TUFF AS ABOVE w. clay alt. no blocky, lower contact obscured by ground up core				00845		
230.3	231.62	80%	CRYSTAL LAPILLI TUFF AS ABOVE med. grey color 75% crystal lapilli frags, 2-5mm in 25% ash matrix, mod. to v. blocky & broken, mod. to strong clay alt., mod. carbonatization				"		
231.62	233.12	90%	CRYSTAL LAPILLI TUFF AS ABOVE v. blocky & broken, v. strong clay alt. clay-carb filled fractures				00846		
233.12	234.62	75%	CRYSTAL LAPILLI TUFF AS ABOVE lithology & alt.				00847		
234.62	236.12	95%	CRYSTAL LAPILLI TUFF AS ABOVE with angular frags of qtz-eye rhyolite 234.62-235.02 v. broken, strong clay alt, mod. carb 235.02-236.12 mod. blocky, mod. clay alt, minor carb				00848		
			gradational change to crystal lapilli ash tuff towards bottom of section						
236.12	237.08	100%	RHYOLITIC CRYSTAL ALPILLI TUFF AS ABOVE slightly blocky, weak to mod. clay alt, minor clay filled fracs majority of fracs are @~45° & ~80° to c.a.				00849		
237.08	237.62	100%	CRYSTAL LAPILLI TUFF upper contact @45° to c.a 85% crystal lapilli frags 2-5mm in 15% ash matrix irregular shaped angular frags of qtz-eye rhyolite, slightly blocky, w. clay alt.				"		

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES		Sheet 26 of 29
				RECORDED	CORRECTED	RECORDED	CORRECTED			
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
237.62	239.12	100%	CRYSTAL LAPILLI TUFF 85% crystal lapilli frags, 2-5mm in 15% ash matrix, slightly blocky, w. clay alt., angular frags of qtz-eye rhyolite, irregular dykelets of qtz-eye rhyolite, f.g. variable orientations				00850		
239.12	240.62	95%	CRYSTAL LAPILLI TUFF AS ABOVE fractures @35° to c.a. 240.30-240.50 v. blocky, mod. clay alt. @240.45 rhyolitic dyke 1.5cm wide @35° to c.a.				00851		
240.62	242.12	100%	CRYSTAL LAPILLI TUFF AS ABOVE slightly blocky, w. clay alt., @240.95 v. siliceious dyke ≥5cm wide 25° to c.a. @241.3 v. siliceous dyke, minor carb 1-5cm wide ~25° to c.a.				00852		
242.12	243.62	95%	CRYSTAL LAPILLI TUFF AS ABOVE slightly blocky, w. clay alt. numerous siliceous dykelets, with minor carb, 1-10mm variable orientations @242.15 fracs @35° to c.a. with strong clay alt.				00853		
243.62	245.12	95%	CRYSTAL LAPILLI TUFF AS ABOVE hardly blocky at all v. weak clay alt., minor siliceous dykelets as above look like qtz-eye rhyolite but are quite hard (H≈6)				00854		
245.12	245.72	95%	CRYSTAL LAPILLI TUFF AS ABOVE hardly blocky, w. clay alt. lower contact @60° to c.a.				00855		
245.72	246.62	90%	RHYOLITIC CRYSTAL LITHIC LAPILLI TUFF 40% lapilli frags in ash matrix, minor rhyolite frags pervasively fractured, rehealed by infilling with clay-carb slightly blocky, w. clay alt. strong in fractures				"		
246.62	247.90	95%	R C/L LAPILLI TUFF AS ABOVE slightly blocky, w. clay alt. @246.64 qtz-eye rhyolite porphyry, either a dyke or a large frag, orientation obscure				00856		

DRILL LOG 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size
Jan 28/88		HQ

FIELD CO-ORDINATES

Lat.	Elev.	Dip
10075 N		-45°
Dep.	**Length**	**Bearing**
10150 E	271.27	199°

DIP TESTS

DEPTH	BEARING		ANGLE	
	RECORDED	CORRECTED	RECORDED	CORRECTED
265		189		54°

PROPERTY	PROJECT No.	N.T.S. No.
GREW CREEK	332	105K/2

SURVEYED CO-ORDINATES

Lat.	Elev.	Dip
Dep.	**Length**	**Bearing**

Sheet 27 of 29

HOLE No. NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
247.90	248.05	90%	STRONGLY ALTERED FRACTURE ZONE @~20° to c.a. rhyolitic dykelets, mostly altered to clays, minor carb blebs of v.f.g. Py v. broken, strong clay alt.		2		00856		
248.05	248.12	100%	R C/L LAPILLI TUFF				"		
248.12	249.62	90%	R C/L LAPILLI TUFF pervasively fractured, with clay infilling mod. blocky, except 248.65-249.15 v. broken, strong clay alt, minor carb, gradational change to crystal lapilli towards bottom of section				00857		
249.62	251.12	100%	CRYSTAL LAPILLI TUFF 80% crystal lapilli frags 2-10mm in ash matrix, minor angular frag of rhyolite prophyry, slightly blocky, w. clay alt., minor qtz-carb veinlets 1-4mm wide, variable orientations				00858		
251.12	251.60	100%	CRYSTAL LAPILLI TUFF AS ABOVE v. slightly blocky, w. clay alt.				00859		
251.60	252.62	90%	CRYSTAL LAPILLI TUFF in strongly frac alt. zone fracs @45° to c.a., v. strong clay alt, mod. to strong carbonatization, frags of carb up to 1.5cm across				"		
252.62	252.74	100%	RHYOLITE DYKE v.f.g., light cream color @60° to c.a.				00860		
252.74	254.06	90%	CRYSTAL LAPILLI TUFF in strongly alt. zone, v. strong leaching strong carbonatization, strong clay alt. prevasively invaded by cab veinlets 1-3mm wide @253.63 qtz-carb veinlet 12mm wide, @45° to c.a.				"		

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ						GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES		Sheet 28 of 29
				RECORDED	CORRECTED	RECORDED	CORRECTED			
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat.	Elev.	Dip
Dep. 10150 E	Length 271.27	Bearing 199°						Dep.	Length	Bearing

HOLE No.
NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
254.06	254.12	95%	CRYSTAL LAPILLI TUFF @254.06 contact with overlying rhyolite dyke @ ~45° to c.a., mod. clay-carb alt.				00860		
254.12	255.62	100%	CRYSTAL LAPILLI TUFF med. grey color, 70% crystal lapilli frags 2-5mm in ash matrix, slightly blocky, w. clay alt, minor carb, minor carb veinlets, variable orientations				00861		
			@254.15, 255.27 qtz-eye rhyolite prophyry dykes ~35 ~50° to c.a.						
255.62	257.12	100%	C.L.T. AS ABOVE hardly blocky at all, v. weak clay alt, minor carb, some carb frags, discontinuous qtz-eye rhyolite porphyry dykelets, variable orientations				00862		
257.12	258.62	100%	C.L.T. AS ABOVE hardly blocky at all, v. weak clay alt., v. minor carb, discontinuous qtz-eye rhyolite porphyry dykelets, variable orientations				00863		
258.62	260.12	100%	C.L.T. AS ABOVE hardly blocky at all, v. weak clay alt., discontinuous qtz-eye rhyolite porphyry dykelets, minor carb veinlets 1-5mm, 259.80-260.12 v. irregular qtz-eye rhyolite dyke sub-parallel to c.a.				00864		
260.12	261.62	100%	C.L.T. AS ABOVE hardly blocky, v. weak clay alt., minor qtz-carb veinlets 1-5mm variable orientations minor discontinuous qtz-eye rhyolite dykelets				00865		
261.62	263.12	100%	C.L.T. AS ABOVE hardly blocky, v. weak clay alt. minor qtz-carb veinlets 1-5mm, minor discontinuous qtz-eye rhyolite dykelets 262.75-262.97 v. irregular qtz-eye-rhyolite porphyry dyke with xenoliths of crystal lapilli tuff ~30° to c.a.				00866		

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Jan 28/88		HQ		BEARING		ANGLE		GREW CREEK	332	105K/2
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES		Sheet 29 of 29
Lat. 10075 N	Elev.	Dip -45°	265		189		54°	Lat. / Elev.	Dip	HOLE No.
Dep. 10150 E	Length 271.27	Bearing 199°						Dep. / Length	Bearing	NGC 88-36

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS
263.12	264.62	100%	CRYSTAL LAPILLI TUFF AS ABOVE hardly blocky, v. weak clay alt., discontinuous, v. irregular, qtz-eye rhyolite porphyry dykelets				00867		
264.62	266.12	100%	C.L.T. AS ABOVE Py in stringers & diss. hardly blocky, w. clay alt., minor qtz carb veinlets, variable orientation @265.0-265.40 rhyolite porphyry dyke light greenish grey color variable orientation 10-35° to c.a.		3		00868		
266.12	267.62	100%	C.L.T. AS ABOVE hardly blocky, v. weak clay alt. minor carb veinlets & rhyolitic dykes, discontinuous, variable orientations, minor f.g. diss Py		≤1		00869		
267.62	269.12	100%	C.L.T. AS ABOVE slightly blocky, fracs @45° 0° & 80° to c.a., v. weak clay alt., discontinuous, irregular qtz-eye rhyolite dykelets, minor f.g. diss. Py		≤1		00870		
269.12	270.62	100%	C.L.T. AS ABOVE slightly blocky, v. weak clay alt. discontinuous, irregular qtz-eye rhyolite dykelets				00871		
270.62	271.27	100%	C.L.T. AS ABOVE				00872	0.65m	
			********** * 271.27m END OF HOLE * * **********						

DRILL LOG - 81

Date Jan 30 /88 Logged By D.R. Bull

NORANDA EXPLORATION COMPANY LIMITED

PROPERTY: Brew Creek | STARTED: May, 21, 1988 | FIELD CO-ORDINATES | DIP TESTS | N.T.S. 105 K/2

HOLE NO.: NGC 88-72 | FINISHED: May, 27, 1988 | 9795N | Bearing | Angle | Depth | PROJECT NO. 332

BEARING: 0:9 | LENGTH: 327.96 | 10:50E | N9.5W 22.5Az | -32.5 -57.5 161.54 | LOGGED BY: Sheila Reic

DIP-COLLAR: -55 | CORE SIZE: HQ/NQ | N11W 21.0Az | -29.5 -60.5 327.95 | SHEET 1 of 11

METRES From	To	Reco-very %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Break age	ASSAYS Au	Ag	Pb	Zn	Cu	As
20.3	29.5	48.7	TUFF/C 2Aa, 3Ac Light gray crystal tuff with strong to moderate argillic alteration. Crystals consist mainly of qtz		tr	1Aa,3Ac	2908DR	E						
29.5	31.0	100	and fosbars with minor amounts of mafic material and trace pyrite. The tuff has a cemented appearance.		tr	1Aa,3Ac	2909DR	E						
31.0	32.5	100	"		tr	2Aa,3Ac	2910DR	E						
32.5	34.0	100	"		tr	2Aa,3Ac	2911DR	E						
34.0	35.5	100	Hairline fractures infill with carbonate		tr	1Aa,3Ac	2912DR	E						
35.5	37.0	93	"			1Aa,3Ac	2913DR	D						
37.0	38.5	93	"			1Aa,3Ac	2914DR	D						
38.5	40.0	100	Intense argillic alteration			3Aa,3Ac	2915DR	E						
40.0	41.5	93	Weak argillic alteration			3Aa	2916DR	D						
41.5	43.0	100	Moderately fractured			fr	2917DR	E						
43.0	44.5	100	"			3Aa	2918DR	E						
44.5	46.0	100	"			3Aa	2919DR	E						
46.0	47.5	100	Carbonate filled hairline fractures			2Aa	2920DR	E						
47.5	49.0	100	"			2Aa	2921DR	E						
49.0	50.5	93	Clots of pale blue silicified rhyolite up to 15cm are randomly distributed throughout			3Aa	2922DR	D						
50.5	52.0	100	"				2923DR	E						
52.0	53.5	100	"			2Aa	2924DR	E						
53.5	55.0	100	Clots of silicified rhyolite occur more frequently			1Aa	2925DR	E						
55.0	56.5	87	"			3Aa	2926DR	D						

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulpn	Alt	Sample No.	Breakage	ASSAYS Au	Ag	Pb	Zn	Cu	As
56.5	58.0	93	"			3Aa	2927DR	E						
58.0	59.5	100	"			3Aa	2928DR	E						
59.5	61.0	100	61.0-61.55 light green mafic tuff andesite fragment	50 to c.a.		1Aa	2929DR	E						
61.0	62.5	93	Tuff very fractured and reduce to rubble in places			1Aa	2930DR	D						
62.5	64.0	80	"			1Aa	2931DR	B						
64.0	65.5	93	"			3Aa	2932DR	D						
65.5	67.0	80	Size of silicified rhyolite clots are decreasing but increasing in frequency			3Aa	2933DR	C						
67.0	68.5	100	"			3Aa	2934DR	D						
68.5	70.0	100	"			3Aa	2935DR	E						
70.0	71.5	100	"			3Aa	2936DR	E						
71.5	73.0	100	71.8- 3cm wide qtz vein 71.9 TUFF A 3Aa light gray crystal, litnic tuff with weak argillic alteration	vein 45 to c.a.		1As	2937DR	E						
73.0	74.5	93	"			3Aa	2938DR	D						
74.5	76.0	87	"			3Aa	2939DR	D						
76.0	77.5	100	"				2940DR	E						
77.5	79.0	100	"				2941DR	E						
79.0	80.5	120	"				2942DR	E						
80.5	82.0	120	"				2943DR	E						
82.0	83.5	100	"				2944DR	E						
83.5	85.0	100	"				2945DR	E						
85.0	86.5	120	"				2946DR	E						
86.5	88.0	120	87.2 TUFF A/B 2Aa, 3Ac light gray precciated crystal litnic tuff. inclucas			2Aa,3Ac	2947DR	D						

METRES From	To	Reco-very %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Break age	ASSAYS Au	Ag	Pb	Zn	Cu	Qs
88.0	89.5	87	Fragments of mafic tuff andesite				2948DR	D						
89.5	91.0	87	"				2949DR	D						
91.0	92.5	93	92.1 sharp contact between brecciated tuff and diorite				2950DR	C						
92.5	94.0	100	DIOR. 1vcb, 3V qtz. light green diorite, very distinct plagioclase laths with minor amounts of mafic			1V,cb, 3V qtz	2951DR	E						
94.0	95.5	100	MINERALS (HORNBLENDE) carbonate with minor qtz + s very pervasive, the average size of the veins are 2cm				2952DR	E						
95.5	97.0	100	TUFF A1 D/F light gray brecciated tuff, same as tuff previous to intrusion, but contains up to 20% clasts				2953DR	E						
97.0	98.5	100	of mafic tuff andesite				2954DR	E						
98.5	100.0	93	99.4 TUFF A/D 2Aa light gray crystal lithic tuff with fragments of mafic tuff andesite			1Aa	2955DR	E						
100.0	101.5	100	"			2Aa	2956DR	E						
101.5	103.0	100	"			2Aa	2957DR	E						
103.0	104.5	93	TUFF C 2Aa light gray crystal tuff, same tuff as seen at the beginning of the hole, contains crystals of qtz			2Aa	2958DR	D						
104.5	106.0	93	and felspors with minor amounts of shale			2Aa	2959DR	C						
106.0	107.5	87	Strong argillic alteration			1Aa	2960DR	B						
107.5	109.0	93	Core broken			1Aa	2961DR	D						
109.0	110.5	93	"			2Aa	2962DR	B						
110.5	112.0	93	111.3 brecciated contact between crystal tuff & rhyolite			2Aa	2963Dr	C						
112.0	113.5	100	RHYLA 3V qtz-cb fespar light green quartz porphyry rhyolite, 1cm to 2cm wide qtz veins are visible the	qtz vein 45 to c.a.		3As	2964DR	D						
113.5	115.0	100	rhyolite appears to have a slight brecciated texture apple green clast ranging from 0.3cm up to 2cm are visible throughout the unit. feldspars phenocrysts are weakly calcareous			3As	2965DR	D						
115.0	116.5	100	"			3As	2966DR	E						
116.5	118.0	93	"				2967DR	D						

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	Au	Ag	ASSAYS Pb	Zn	Cu	As
118.0	119.5	93	"				2968DR	D						
119.5	121.0	100	120.10 contact between rhyolite & volcaniclastic breccia											
121.0	122.5	100	TUFF/F multicoloured volcaniclastic matrix supported breccia tuff very poorly sorted, clast range from 0.1cm up to 10cm in size, subangular to angular in shape fragments consist of shale, chert, argillite, chlorite schsit the colour of the matrix ranges from dark gray to pinK . 1% pyrite		1		2969DR	D						
					1		2970DR	E						
122.5	124.0	100	123.4 RHYL A light green		1		2971DR	D						
124.0	125.5	100	QUARTZ FELDSPAR PORPHYRY appears to be the same rhyolite unit as described previously, there are very few				2972DR	D						
125.5	127.0	100	Quartz veins but the amount and size of lithic fragments has increased lithic fragments up to 15cm in size are present				2973DR	D						
127.0	128.5	93	"				2974DR	D						
128.5	130.0	100	128.85 gradational contact between rhyolite and andesite ANDE A 3As				2975DR	D						
130.0	131.5	100	Dark green, calcite filled vesicules 0.5cm wide calcite filled fractures moderately magnetic, massive andesite flow. Sericite alteration visible in isolated locations				2976DR	E						
131.5	133.0	100	"				2977DR	D						
133.0	134.5	100	"				2978DR	D						
134.5	136.0	87	"				2979DR	C						
136.0	137.5	93	137.0 RHYL A light gray quartz-feldspar porphyry rhyolite same unit has described previously				2980DR	C						
137.5	139.0	93	Contains 3cm vein of brecciated tuff				2981DR	C						
139.0	140.5	100	139.6 contact between rhyolite and volcaniclastic brecciated tuff				2982DR	E						
140.5	142.0	100	TUFF TYPE F light gray coloured volcaniclastic breccia matrix suboorted very poorly sorted, subangular to				2983DR	E						

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	ASSAYS Au	Ag	Pb	Zn	Cu	As
142.0	143.5	100	angular in size lithic fragments similar to breccia previously described but doesn't have a pink matrix component 142.6 TUFF A/F intermixed unit of volcaniclastic breccia and crystal lithic tuff				2984DR	E						
143.5	145.0	100	"				2985DR	D						
145.0	146.5	100	"				2986DR	D						
146.5	148.0	93	"				2987DR	D						
148.0	149.5	100	148.35 contact between intermixed unit and crystal lithic tuff				2988DR	D						
149.5	151.0	100	TUFF A light to medium gray crystal lithic to crystal tuff, ranges from fine to medium grain clots of				2989DR	D						
151.0	152.5	100	rhyolite material up to 4cm wide are common throughout very minor hairline qtz-carb veins the tuff appear to be very fresh				2990DR	E						
152.5	154.0	100	"				2991DR	E						
154.0	155.5	100	"				2992DR	E						
155.5	157.0	100	"				2993DR	E						
157.0	158.5	100	"				2994DR	E						
158.5	160.0	100	"				2995DR	E						
160.0	161.5	100	"				2996DR	E						
161.5	163.0	100	"				2997DR	D						
163.0	164.5	100	"				2998DR	D						
164.5	166.0	93	"				2999DR	D						
166.0	167.5	100	166.4-169.5 welded x-cl lithic tuff with black carbonaceous fragments				3000DR	D						
167.5	169.0	100	"				3001DR	D						
169.0	178.5	93	minor carbonate (quartz) veining			3Vcb	3002DR	D						
178.5	179.0	100	"				3003DR	D						

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulon	Alt	Sample No.	Breakage	ASSAYS Au	Ag	Pb	Zn	Cu	As
172.0	173.5	100	Minor qtz veining & carbonaceous fragments				3004DR	E						
173.5	175.0	100	"				3005DR	D						
175.0	176.5	100	Tuff light gray crystal tuff				3006DR	D						
176.5	178.0	100	"				3007DR	D						
178.0	179.5	100	"				3008DR	D						
179.5	181.0	100	"				3009DR	D						
181.0	182.5	100	"				3010DR	D						
182.5	184.0	100	"				3011DR	D						
184.0	185.5	100	"				3012DR	E						
*185.5	187.0	80	TUFF A is qtz 3V co 10 c/o pyrite increase in shear zones very fine grained pyrite along fractures it looks almost black		10	1As	3013DR	C						
187.0	188.5		CORE IS BROKEN 187.6-187.8 large 10cm long .2cm wide vein milky white qtz vein, then 7cm wide, 10cm long massive fine grained pyrite zone, the entire unit has been shot up with pyrite	qtz vein 50 to c.a.	60	1As	3014DR	C						
188.5	190.2	67	189.3 REDUCE CORE SIZE FORM HQ TO NQ pyrite occurs as blebs and has descrete crystals along fractures		1	1As	3015DR	C						
190.0	191.5	87	191.6 1cm wide banded qtz vein pyrite cuts across the core	qtz vein 45 to c.a.	5		3016DR	C						
191.5	193.0	93	35cm long 2cm wide banded milkly white qtz vein with 1cm wide pyrite veins cross-cutting it		5	1As	3017DR	D						
193.0	194.5	100	193.0 TUFF A crystal lithic tuff with clots of rhyolitic material				3018DR	D						
194.5	196.0	93	"				3019DR	D						
196.0	197.5	100	"				3020DR	E						

METRES		Reco-		Structure	%		Sample	Break	ASSAYS					
From	To	very %	DESCRIPTION OF UNITS		Sulph	Alt	No.	age	Au	Ag	Pb	Zn	Cu	As
197.5	199.0	100	198.05 pink brecciated contact 2cm wide between tuff and rhyolite dyke				3021DR	D						
199.0	200.5	93	RHY A light green qtz-fdspar porphyry 199.0 TUFF A 1As, 2s qz, Py				3022DR	C						
200.5	202.0	100	199.8-200.5 very strongly silicified with banded qtz vein approximately 2cm wide			2V ctz	3023DR	D						
202.0	203.5	100	Cm wide banded qtz vein moderate to strong silicification	50 to c.a.		2As.2V ctz	3024DR	C						
203.5	205.0	100	Brecciated banded qtz vein associated with v.f.g. pyrite (up to 15%)			2As 2V ctz	3025DR	C						
205.0	206.5	90	Hairline fractures filled with banded qtz veining up to 5% of the rock			2As 2V ctz	3026DR	C						
206.5	208.0	97	70cm wide light green qtz-fdspar porphyry rhyolite dyke				3027DR	C						
208.0	209.5	100	207.5 3cm wide banded qtz & pyrite veining				3028DR							
209.5	211.0	100	Weakly silicified x-cl lithic tuff with up to 3% rhyolitic clots				3029DR	C						
211.0	212.5	100	"				3030DR	D						
212.5	214.0	97	Very minor banded qtz veins with associated pyrite				3031DR	D						
214.0	215.5	93	"				3032DR	C						
215.5	217.0	93	Cm wide gray veins, may be very fine grained pyrite(?)				3033DR	C						
217.0	218.5	40	Core reduced to rubble				3034DR	B						
218.5	220.0	60	"				3035DR	B						
220.0	221.5	63	2cm wide qtz vein with associated pyrite very strongly silicified			1As 2V qtz	3036DR	B						
221.5	223.0	97	6cm wide gray material maybe v.f.g. pyrite is associated with qtz veins				3037DR	B						
							3038DR	C						

METRES								ASSAYS					
From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	Au	Ag	Pb	Zn	Cu	As
			associated gray material											
224.5	226.0	93	Minor veining				3039DR	C						
226.0	227.5	97	226.3 4cm wide shear zone of black clay				3040DR	C						
227.5	229.0	100	Minor dark gray veining very strong argillic alt'n in places			1Aa	3041DR	D						
229.0	230.5	100	Weak to moderate silicification			3As	3042DR	C						
230.5	232.0	93	Very brecciated 2cm wide banded qtz vein strongly silicified			1As 1V qtz	3043DR	C						
232.0	233.5	37	Core reduced to rubble very broken pieces of qtz veins visible strong silicification			1As	3044DR	B						
233.5	235.0	73	Broken qtz vein material and sand			1As	3045DR	B						
235.0	236.5	50	"			1As	3046DR	B						
236.5	238.0	93	Moderate to strong silicification with minor qtz veins			2As	3047DR	C						
238.0	239.5	93	"			2As	3048DR	C						
239.5	241.0	93	Strong silicification brecciated, qtz flooded tuff			1As 1V qtz	3049DR	C						
241.0	242.5	60	" , very poor recovery			1As 1V qtz	3050DR	B						
242.5	244.0	67	Moderate silicification weak argillic alteration			2As,3Aa	3051DR	B						
244.0	245.5	67	Weak to moderate argillic alteration			3Aa	3052DR	B						
245.5	247.0	87	Weak to moderate silicification 1% pyrite stringers				3053DR	C						
247.0	248.5	93	Minor quartz veins			3V qtz	3054DR	C						
248.5	250.0	67	Weak argillic alteration 1cm wide v.f.g. pyrite vein			3Aa	3055DR	C						
250.0	251.5	93	5cm wide CLEAR quartz vein the quartz appears very fractured			1V qtz	3056DR	C						
251.5	253.0	93	3cm wide clear qtz vein, 3.5cm wide v.f.g. pyrite vein			1V qtz	3057DR	C						

METRES		Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	ASSAYS Au	Ag	Pb	Zn	Cu	As
			252.95 banded qtz vein			1As								
253.0	254.5	93	253.0 6cm wide clear qtz vein 253.5 brecciated qtz vein			1V qtz	3058DR	C						
254.5	256.0	100	Minor qtz veins, minor pyrite veins			3V qtz	3059DR	D						
256.0	257.5	67	Weak argillic alteration				3060DR	C						
257.5	259.0	87	Minor qtz veins with minor pyrite				3061DR	B						
259.0	260.5	87	591.1-260.3 FAULT ZONE black clay				3062DR	C						
260.5	262.0	93	Very strong silicification, with pyrite stringers			1As	3063DR	C						
262.0	263.5	93	Weak sericitic alteration			3Am	3064DR	D						
263.5	265.0	87	264.5 12cm wide zone of banded qtz & v.f.g. Py associated with rhyolite clots			1As 1V qtz	3065DR	D						
265.0	266.5	97	3cm wide brecciated banded qtz vein, pyrite associated with rhyolite clot			1As 1V qtz	3066DR	C						
266.5	268.0	100	Moderate silcification minor pyrite stringers			3V py	3067DR	D						
268.0	269.5	93	2cm wide qtz vein 268.5-269.0 Py filled fractures			1As	3068DR	C						
269.5	271.0	97	2cm wide banded qtz vein very poor recovery			1As, 1qt Py	3069DR	C						
271.0	272.5	93	Banded qtz veins			1As, 1V qtz	3070DR	D						
272.5	274.0	67	272.7 TUFF A 3cm wide shear, fresh light gray crystal lithic tuff			1As	3071DR	D						
274.0	275.5	100	5cm wide clear qtz vein			1As	3072DR	C						
275.5	277.0	100	Minor pyrite stringers				3073DR	D						
277.0	278.5	100	Minor pyrite stringers				3074DR	D						
278.5	280.0	100	"				3075DR	E						

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	ASSAYS Au	Ag	Pb	Zn	Cu	As
280.0	281.5	100	Minor pyrite stringers, minor carbonate stringers weak argillic alteration core reduced to rubble in places			3-2Aa	3076DR	D						
281.5	283.0	90	"			3-2Aa	3077DR	C						
283.0	284.5	97	Core is broken up, moderate argillic alteration, minor pyrite		1	2Aa	3078DR	B						
284.5	286.0	100	Weak argillic alteration contain carbonaceous fragments up to 3cm long				3079DR	C						
286.0	287.5	87	"				3080DR	C						
287.5	289.0	93	288.0 5cm wide v.f.g. pyrite vein, broken banced qtz vein			1As 1V qtz	3081DR	B						
289.0	290.5	93	289.9 10cm rhyolite clot 2cm wide banded qtz vein on the contact between clot and tuff minor pyrite			1As	3082DR	B						
290.5	292.0	87	Pyrite stringers, broken banced qtz veins, strong silicification minor carbonaceous fragments				3083DR	B						
292.0	293.5	93	Moderate silicification, minor pyrite		1	2As	3084DR	B						
293.5	295.0	93	"				3085DR	B						
295.0	296.5	67	Brecciated tuff with broken clear qtz veins				3086DR	B						
296.5	298.0	80	Less brecciated with minor broken clear qtz veins				3087DR	B						
298.0	299.5	87	Moderate to strong silicification core reduced to rubble				3088DR	B						
299.5	301.0	100	300.8 FAULT ZONE sheared black clay with minor tuff fragments				3089DR	C						
301.0	302.5	93	"				3090DR	D						
302.5	304.0	100	"				3091DR	D						
304.2	305.5	87	"				3092DR	D						
305.5	307.0	97	"				3093DR	D						

METRES		Reco-		Structure	%		Sample	Break	ASSAYS					
From	To	very %	DESCRIPTION OF UNITS		Sulph	Alt	No.	age	Au	Ag	Pb	Zn	Cu	As
307.0	308.5	93	TUFF A light gray crystal lithic tuff with minor carbonaceous fragments weak silicification			3As	3094DR	D						
308.5	310.0	97	Minor pyrite stringers and minor qtz-carbonate stringers				3095DR	D						
310.0	311.5	100	"				3096DR	C						
311.5	313.0	93	1cm wide banded qtz vein, 3cm wide v.f.g. pyrite vein		1		3097DR	D						
313.0	314.5	93	Minor pyrite veins		1		3098DR	C						
314.5	316.0	93	Strong silicification 7cm wide broken clear qtz vein		1	1As	3099DR	C						
316.0	317.5	87	Minor qtz veining, moderate to strong silicification				3100DR	C						
317.5	319.0	87	"				3101DR	B						
319.0	320.5	87	Minor hairline qtz veins moderate to strong silicification				3102DR	B						
320.5	322.0	80	"				3103DR	C						
322.0	323.5	100	"				3104DR	C						
323.5	325.0	100	Fresh crystal lithic tuff with very minor Py/carbonate				3105DR	D						
325.0	326.5	100	"				3106DR	E						
326.5	328.0	100	0.5cm wide banded qtz vein				3107DR	E						
			END OF HOLE											

NORANDA EXPLORATION COMPANY LIMITED

PROPERTY: Grew Creek | STARTED: May 5/88 | FIELD CO-ORDINATES | DIP TESTS | | | N.T.S. NGC88-75

HOLE NO.: NGC 88-75 | FINISHED: June 3/88 | 9300N | | Bearing | Angle | Depth | PROJECT NO. 331

BEARING: 199 | LENGTH: 331.01 | 12000E | 512E | 200.2 | 40.75/49.25 | 158.50 | LOGGED BY: Jesse Duke

DIP-COLLAR: -45 | CORE SIZE: HQ | 99E | 203.2 | 42.75/47.25 | 320.04 | SHEET 1 of //

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Break age	ASSAYS Au	Ag	Pb	Zn	Cu	As
0	3.75		overburden											
3.75	5.0	100	TUFF C 2Am, 3As crystal tuff altered, pyrite oxicized giving a red stain on all fractrues medium sand sized		<1		3795DR	B						
5.0	6.5	100	particles of qtz & flsp green, textures obscured. Section of obscure grey qtz veinlets forming a stock-work mn-stains on some fractures. Rhyolitic in com-position.		<1		3796DR	B						
6.5	8.0	100	TUFF C 2Am, 3As green sulonides occur as dark grey disseminations & small blebs obscure qtz veinlets form a micro-stockwork rare banded qtz veinlets (off-white to grey)		<1	2m,3s	3797DR	C						
8.0	9.5	100	"		"	"	3798DR	C						
9.5	11.0	100	"		"	"	3799DR	B						
11.0	12.5	100	"		"	"	3800DR	B						
12.5	14.0	100	"	Shear 55	"	"	3801DR	C						
14.0	15.5	100	"		"	"	3802DR	C						
15.5	17.0	100	"		"	"	3803DR	C						
17.0	18.5	100	"		"	"	3804DR	D						
18.5	20.0	100	"		"	"	3805DR	D						
20.0	21.5	100	"		"	"	3806DR	D						
21.5	23.0	100	"		"	"	3807DR	C						
23.0	24.5	100	"		"	"	3808DR	D						
24.5	26.0	100	" contact at 25.5m		"	"	3809DR	D						
26.0	27.5	100	TUFF A 1Am grey to green crystal & crystal lithic tuff much of the core is completely disaggregated rare irregular grey qtz-veins		"	"	3810DR	D						

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	ASSAYS Au	Ag	Pb	Zn	Cu	As
27.5	29.0	100	TUFF A/C 2Am green rhyolite fractured, altered relief welding (?) textures. Sugary texture: dominantly			2m,3c	3811DR							
29.0	30.5	100	feldspar & qtz xls with sections of rhyolite lapilli a few grey & green clay veinlets			"	3812DR	D						
30.5	32.0	100	TUFF A/C 1Am green 60% of the core is friable & dissaggregated. V.f.g. disseminated Py (often cubic)		tr	1Am	3813DR	C						
32.0	33.5	100	"			"	3814DR	D						
33.5	35.0	100	"			"	3815DR	D						
35.0	36.5	100	"			"	3816DR	D						
36.5	38.0	100	"			"	3817DR	B						
38.0	39.5	100	"			"	3818DR	B						
39.5	41.0	100	"			"	3819DR	A+						
41.0	42.5	100	"			"	3820DR	A+						
42.5	44.0	100	"			"	3821DR	B						
44.0	45.5	100	TUFF A/F 2Am green & grey alternating zones of green & grey fragmental volcanics textures obscured by alteration			2m	3822DR	B						
45.5	47.0	100	"			"	3823DR	B						
47.0	48.5	100	"			"	3824DR	C						
48.5	50.0	100	"			"	3825DR	D						
50.0	51.5	100	"			"	3826DR	D						
51.5	53.0	100	" green clay shear		60	"	3827DR	D						
53.0	54.5	100					3828DR	C						
54.5	56.0	100	TUFF A/F 2Am FAULT evidence of shearing in broken core at a low angle to core axis			"	3829DR	C						
56.0	57.5	100	"			"	3830DR	B						
57.5	59.0	100	" fault 20, clay shear 30			"	3831DR	C						

2+1

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	ASSAYS Au	Ag	Pb	Zn	Cu	As
59.0	60.5	100	"			2m	3832DR	C						
6.5	62.0	100	TUFF A/F 2Am concave clay shear 70, contact at 62.8			"	3833DR	D						
62.0	63.5	100	TUFF A grey some sections and welded core is pitted from the clay altered feldspars washing away dark grey matrix with qtz and green clay after feldspar crystals and a few mm lapilli	shear 15		3m	3834DR	D						
63.5	65.0	100	"			"	3835DR	E						
65.0	66.5	100	"			"	3836DR	C						
66.5	68.0	100	"			"	3837DR	C						
68.5	69.5	100	" Gracational contact			"	3838DR	D						
69.5	71.0	100	RmLT A 2Am green 10% qtz eyes 15-25% green and white clay altered (discoloured) anhedral & annedral feldspars pale green matrix. Prominant green clay along		tr	2m	3839DR	D						
71.0	72.5	100	fractures & shears. 5-10% of core is crumbly trace of fine-grained dark grey (pyrite with oxides coating?) sulphides	shear 30	"	"	3840DR	D						
72.5	74.0	100	"		"	"	3841DR	D						
74.0	75.5	100	"		"	"	3842DR	D						
75.5	77.0	100	"		"	"	3843DR	D						
77.0	78.5	100	"		"	"	3844DR	D						
78.5	80.0	100	"		"	"	3845DR	C						
80.0	81.5	100	"	fracture 25	"	"	3846DR	D						
81.5	83.0	100	" possible flow banded textures tone green clay	shear 45	"	"	3847DR	D						
83.0	84.5	100	" irregular shear 15		"	"	3848DR	D						
84.5	86.0	100	"		"	"	3849DR	D						
86.0	87.5	100	"		"	"	3850DR	D						
87.5	89.0	100	"		"	"	3851DR	D						

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	ASSAYS Au	Ag	Pb	Zn	Cu	As
89.0	90.5	100	"		tr	2m	3852DR	D						
90.5	92.0	100	"		"	"	3853DR	D						
92.0	93.5	100	"		"	"	3854DR	D						
93.5	95.0	100	" shear follows core axis for 1m, 0 degrees		"	"	3855DR	D						
95.0	96.5	100	"		"	"	3856DR	D						
96.5	98.0	100	"	fracture 50	"	"	3857DR	D						
98.0	99.5	100	"		"	"	3858DR	D						
99.5	101.0	100	"		"	"	3859DR	E						
101.0	102.5	100	"		"	"	3860DR	C						
102.5	104.0	100	"		"	"	3861DR	D						
104.0	105.5	100	RHLT A 1Am frequent zones of intense clay alt'n (poor recovery)		"	1Am	3862DR	D						
105.5	107.0	100	"		"	"	3863DR	D						
107.0	108.5	100	"		"	"	3864DR	B						
108.5	110.0	100	"		"	"	3865DR	D						
110.0	111.5	100	"		"	"	3866DR	B						
111.5	113.0	100	RHLT A green as described at 69.5m		"	"	3867DR	D						
113.0	114.5	100	"		"	"	3868DR	D						
116.0	116.5	100	"		"	"	3869DR	B						
116.0	117.5	100	"		"	"	3870DR	C						
117.5	119.0	100	"		"	"	3871DR	D						
119.0	120.5	100	"		"	"	3872DR	D						
120.5	122.0	100	"		"	"	3873DR	D						
122.0	123.5	100	RHLT A/F 1Aa frequent fractures & zones of desaggreg-		(1	1a	3874DR	D						

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	ASSAYS Au	Ag	Pb	Zn	Cu	As
			ated core. Clay dominantly kaolinite with patches & blebs of green (sericitic) clays. A few scattered black pyritic veinlets.											
123.5	125.5	100	"		<1	1a	3875DR	A+						
125.5	126.5	100	"			"	3876DR	C						
126.5	128.0	100	R+LT A 3Aa, 3As alternating sections of weakly friable core & incurated core with grey pyritic veinlets up to 1mm wide. Pyrite as vfg disseminations within the veinlets			3a,3s	3877DR	D						
128.0	129.5	100	"			"	3878DR	D						
129.5	131.0	100	"			"	3879DR	D						
131.0	132.5	100	"			"	3880DR	D						
132.5	134.0	100	"			"	3881DR	D						
134.0	135.5	100	"			"	3882DR							
135.5	137.0	100	"			"	3883DR	D						
137.0	138.5	100	"			"	3884DR	D						
138.5	140.0	100	"			"	3885DR	D						
140.0	141.5	100	"			"	3886DR	E						
141.5	143.0	100	"			"	3887DR	D						
143.0	144.5	100	"			"	3888DR	D						
144.5	146.0	100	"			"	3889DR	D						
146.0	147.5	100	"			"	3890DR	D						
147.5	149.0	100	"			"	3891DR	D						
149.0	150.5	100	"			"	3892DR	D						
150.5	152.0	100	"			"	3893DR	D						
152.0	153.5	100				"	3894DR	D						

METRES								ASSAYS					
From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	Au	Ag	Pb	Zn	Cu	As
153.5	155.0	100	"		(1	3a, 3s	3895DR	D						
155.0	156.5	100	RHLT A/F 2Aa, 3As increasing alteration intensely breccia textures (obscured by alteration) increase toward 158m both green & white clays occur.		"	2a, 3s	3896DR	D						
156.5	158.0	100	"		"	"	3897DR	D						
158.0	159.5	100	RHLT A/F 2Aa, 3As, 2S cc-qz calcite & minor qz veining with patches of silica flooded rock. Breccia textures throughout bladed intergrowths of qz & calcite with Py replacing some of the calcite blades. Elsewhere pyrite forms blebs & stringers spacially associated with the quartz. Strong kaolinte coatings on fractures. Prominant green clay fills fracture. *CORE REDUCED TO NQ A" 158.8m*		"	2a, 3s 2c	3898DR	D						
159.5	161.0	100	" some fragments are silicified		"	"	3899DR	C						
161.0	162.5	100	"		"	"	3900DR	B						
162.5	164.0	100	RHLT A 3Aa, 3Vqz scattered pyritic thin ((1mm) qz veinlets (.5 to 1%) (pyrite often vfg & dark grey (may		"	3a	3901DR	C						
164.0	165.5	100	be another sulphide associated with it)), scattered calcite veinlets and small patches (up to 1cm) across. Minor disseminated Py as blebs (3mm in diameter. White kaolinite on fractures. Green clays prominent on		"	"	3902DR	C						
165.5	167.0	100	fractures frequent sections (about on every 1.5m) of friable core. Some show evidence of minor silicification		"	"	3903DR	D						
167.0	168.5	100	"		"	"	3904DR	D						
168.5	170.0	100	"		"	"	3905DR	D						
170.0	171.5	100	"		"	"	3906DR	B						
171.5	173.0	100	"		"	3a	3907DR	B						
173.0	174.5	100	"		"	"	3908DR	D						
174.5	176.0	100	"		"	"	3909DR	C						
176.0	177.5	100	"		"	"	3910DR	D						

METRES								ASSAYS					
From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	Au	Ag	Pb	Zn	Cu	As
177.5	179.0	100	"		(1	2a	3911DR	C						
179.0	180.5	100	"		"	"	3912DR	C						
180.5	182.0	100	"		"	"	3913DR	B						
182.0	183.5	100	RHLT A/F 2Aa, 2As a few silicified patches with very irregular qtz veining, some green flourite (?) associated with the qtz veining most core friable with kaolinite coatings on all fractures. Minor disseminated blebs of pyrite, usually associated with qtz-veining.		"	2a,3s	3914DR	B						
183.5	185.5	100	Some indurated green material associated with qtz-veining may be silicified (?) flourite. Sulphides (vfg pyrite?) range from yellow to dark grey		"	"	3915DR	C						
185.5	186.5	100			"	"	3916DR	B						
186.5	188.0	100		fracture 60	"	"	3917DR	C						
188.0	189.5	100	RHLT A 2Am green 20% of core is friable many felcspars completely gone to green sericite prominant green clays on fractures some of the clay seams up to 1.5cm			2m,3c	3818DR	B						
189.5	191.0	100	thick. Rare thin qtz veinlets & weakly silicified envelopes a few calcite veinlets & carbonate alteration in white feldspar crystals			"	3819DR	B						
191.0	192.5	100	"			"	3820DR	C						
192.5	194.0	100	"			"	3821DR	B						
194.0	195.5	100	"			"	3822DR	B						
195.5	197.0	100	"			2m,3c	3823DR	D						
197.0	198.5	100	"			"	3824DR	B						
198.5	200.0	100	"			"	3825DR	C						
200.0	201.5	100	"			"	3826DR	D						
201.5	203.3	100	"			"	3827DR	A						
203.3	204.5	100	"			"	3828DR	C						

METRES		Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	ASSAYS					
From	To								Au	Ag	Pb	Zn	Cu	As
204.5	206.0	100	" qtz veinlets on fracture 70 degrees			2m,3c	3929DR	D						
206.0	207.5	100	"			"	3930DR	D						
207.5	209.0	100	"			"	3931DR	C						
209.0	210.5	100	"			"	3932DR	C						
210.0	212.0	100	"			"	3933DR	C						
212.0	213.5	100	" broken core over 22cm section is weakly silicified with vfg sulphides (pyrite +?) on fractures			"	3934DR	C						
213.5	215.0	100	"	fracture 20		"	3935DR	D						
215.0	216.5	100	"			"	3936DR	C						
216.5	218.0	100	"			"	3937DR	C						
218.0	219.5	100	"			"	3938DR	C						
219.5	221.0	100	"	fracture 60		2m,3c	3939DR	D						
221.0	222.5	100	"			"	3940DR	C						
222.5	224.5	100	RHLT A green scattered grey pyritic qtz veins (5mm in diameter sheared vfg pyrite on some fractures a few zones of wear silicification associated with strongly		(1	3m,3c	3941DR	B						
224.5	225.5	100	pyritic anastomosing veinlets. Some of the veins are banded some of the altered feldspars are carbonate-rich.		"	"	3942DR	D						
225.5	227.0	100	"		"	"	3943DR	C						
227.0	228.5	100	"		"	"	3944DR	C						
228.5	230.0	100	"		"	"	3945DR	C						
230.0	231.5	100	"		"	"	3946DR	C						
231.5	233.0	100	"		"	"	3947DR	B						
233.0	234.5	100	"		"	"	3948DR	D						
234.5	236.0	100	" snear 70 degrees		"	"	3949DR	C						

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	ASSAYS Au	Ag	Pb	Zn	Cu	As
236.0	237.5	100	"		<1	3m,3c	3950DR	C						
237.5	239.0	100	"		"	"	3951DR	C						
239.0	240.5	100	"		"	"	3952DR	C						
240.5	242.0	100	"		"	"	3953DR	C						
242.0	243.5	100	"		"	"	3954DR	C						
243.5	245.0	100	"	fracture 34	"	"	3955DR	C						
245.0	246.5	100	"		"	"	3956DR	C						
246.5	248.0	100	"		"	"	3957DR	D						
248.0	249.5	100	"		"	"	3958DR	C						
249.5	251.0	100	"		"	"	3959DR	C						
251.0	252.5	100	"		"	"	3960DR	C						
252.5	254.0	100	"	fracture 47	"	"	3961DR	C						
254.0	255.5	100	"		"	"	3962DR	D						
255.5	257.0	100	"		"	"	3963DR	D						
257.0	258.5	100	"		"	"	3964DR	D						
258.5	260.0	100	"	fracture 25	"	"	3965DR	D						
260.0	261.5	100	"		"	"	3966DR	D						
261.5	263.0	100	"	shear 10	"	"	3967DR	D						
263.0	264.5	100	"	3 fracture 60	"	"	3968DR	D						
264.5	266.0	100	" 5mm grey quartz vein 15		"	"	3969DR	D						
266.0	267.5	100	"		"	"	3970DR	D						
267.5	269.0	100	"		"	"	3971DR	D						

METRES		Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Breakage	ASSAYS					
From	To								Au	Ag	Pb	Zn	Cu	As
269.0	270.5	100	"		(1	3m, 3c	3972DR	D						
270.5	272.0	100	"		"	"	3973DR	C						
272.0	273.5	100	"		"	"	3974DR	D						
273.5	275.0	100	"		"	"	3975DR	D						
275.0	276.5	100	"		"	"	4301DR	D						
276.5	278.0	100	"		"	"	4302DR	D						
278.0	279.5	100	"		"	"	4303DR	D						
279.5	281.0	100	"		"	"	4304DR	D						
281.0	282.5	100	"		"	"	4305DR	C						
282.5	284.0	100	RHLT A 1Am green soft, crumbly core lower contact at 284.5		"	"	4306DR	C						
284.0	285.5	100	RHLT A green scattered pyritic cz-veins & veinlets ((0.5% of core) mostly (1mm wide, often associated	shear 50	(1	3m	4307DR	C						
285.5	287.0	100	with 5-15cm zones of weakly silicified core containing vfg disseminated pyrite		"	"	4308DR	D						
287.0	288.5	100	"		"	"	4309DR	D						
288.5	290.0	100	"		"	"	4310DR	C						
290.0	291.5	100	"		"	"	4311DR	C						
291.5	293.0	100	"		"	"	4312DR	C						
293.0	294.5	100	"		"	"	4313DR	C						
294.5	296.0	100	"		"	"	4314DR	C						
296.0	297.5	100	"		"	"	4315DR	C						
297.5	299.0	100	"		"	"	4316DR	B						
299.0	300.5	100	"		"	"	4317DR	B						
300.5	302.0	100	"		"	"	4318DR	D						

METRES From	To	Recovery %	DESCRIPTION OF UNITS	Structure	% Sulph	Alt	Sample No.	Break age	ASSAYS Au	Ag	Pb	Zn	Cu	As
302.0	303.5	100	"		<1	3m	4319DR	D						
303.5	305.0	100	"		"	"	4320DR	D						
305.0	306.5	100	"		"	"	4321DR	D						
306.5	308.0	100	"		"	"	4322DR	E						
308.0	309.5	100	"		"	"	4323DR	E						
309.5	311.0	100	"		"	"	4324DR	D						
311.0	312.5	100	"		"	"	4325DR	D						
312.5	314.0	100	"		"	"	4326DR	E						
314.0	315.5	100	RHLT A 20m same as above & also, broken core increase alteration intensity "		<1	2m	4327DR	B						
315.5	317.7	100			"	"	4328DR	B						
317.7	318.5	100	"		"	"	4329DR	C						
318.5	320.0	100	RHLT A 20m green scattered black greenish or grey qz veining (about 0.5% of core) often pyritic		"	"	4330DR	C						
320.0	321.5	100	"		"	"	4331DR	D						
321.5	323.0	100	" 2mm banded grey qz vein 45 degrees		"	"	4332DR	D						
323.0	324.5	100	"		"	"	4333DR	D						
324.5	326.0	100	" 1cm shear zone 45		"	"	4334DR	D						
326.0	327.5	100	"		"	"	4335DR	D						
327.5	329.0	100	"		"	"	4336DR	E						
329.0	330.5	100	"		"	"	4337DR	E						
330.5	331.0	100	"		"	"	4338DR	E						

END OF HOLE

APPENDIX II

DIAMOND DRILLING ASSAYS, (etc.)

** BORSURV **

SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: GRCK
HOLE NO: 34
INSTRUMENT: TH

DATE: 88
SURVEY BY: NOR

DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-45.00	180.00	10150.780	10033.810	829.560
190.50	-50.00	180.00	10150.780	9905.110	689.109

** BORSURV **

AVERAGED ASSAY INTERVALS
PROPERTY: GRCK
HOLE No: 34

==========

1. ZONE B (1.50 d.t. Core Angle: 65 1.36 t.t.)

		EASTINGS:	10150.78
FROM:	108.00 ----------	NORTHINGS:	9960.85
		ELEVATION:	749.93

1.710 Au gpt
3.100 Ag gpt
290.000 Hg ppb
75.000 As ppm

		EASTINGS:	10150.78
TO:	109.50 ----------	NORTHINGS:	9959.83
		ELEVATION:	748.83

2. MAIN ZONE (1.50 d.t. Core Angle: 70 1.41 t.t.)

		EASTINGS:	10150.78
FROM:	132.00 ----------	NORTHINGS:	9944.63
		ELEVATION:	732.24

2.980 Au gpt
4.100 Ag gpt
160.000 Hg ppb
130.000 As ppm

		EASTINGS:	10150.78
TO:	133.50 ----------	NORTHINGS:	9943.62
		ELEVATION:	731.13

3. ZONE A (1.50 d.t. Core Angle: 55 1.23 t.t.)

		EASTINGS:	10150.78
FROM:	78.00 ----------	NORTHINGS:	9981.11
		ELEVATION:	772.05

1.440 Au gpt
1.400 Ag gpt
5000.000 Hg ppb
29.000 As ppm

		EASTINGS:	10150.78
TO:	79.50 ----------	NORTHINGS:	9980.10
		ELEVATION:	770.95

4. ZONE D (1.50 d.t. Core Angle: 70 1.41 t.t.)

		EASTINGS:	10150.78
FROM:	151.50 ----------	NORTHINGS:	9931.46
		ELEVATION:	717.86

0.860 Au gpt
1.700 Ag gpt
110.000 Hg ppb
85.000 As ppm

		EASTINGS:	10150.78
TO:	153.00 ----------	NORTHINGS:	9930.44
		ELEVATION:	716.76

ASSAY LOG
PROPERTY: GRCK
HOLE No.: 34

FROM	TO	WIDTH	Au gpt	Ag gpt	Hg ppb	As ppm	ROCK TYPE
45.00	46.50	1.50	0.035	0.350	1800.000	23.000	SEDS A/B
46.50	48.00	1.50	0.035	0.350	1200.000	16.000	SEDS A/B
48.00	49.50	1.50	0.035	0.350	1250.000	21.000	SEDS A/B
49.50	51.00	1.50	0.035	0.350	1600.000	27.000	SEDS A/B
51.00	52.50	1.50	0.035	0.350	2150.000	22.000	SEDS A/B
52.50	54.00	1.50	0.035	0.350	1100.000	15.000	SEDS A/B
54.00	55.50	1.50	0.035	0.350	2000.000	9.000	SEDS A/B
55.50	57.00	1.50	0.035	0.350	800.000	9.000	SEDS A/B
57.00	58.50	1.50	0.035	0.350	1650.000	6.000	SEDS A/B
58.50	60.00	1.50	0.035	0.350	4500.000	14.000	SEDS A/B
60.00	61.50	1.50	0.035	0.350	5000.000	90.000	SEDS A/B
61.50	63.00	1.50	0.070	1.400	5000.000	250.000	SEDS A/B
63.00	64.50	1.50	0.070	0.350	5000.000	100.000	SEDS A/B
64.50	66.00	1.50	0.035	0.350	5000.000	110.000	SEDS A/B
66.00	67.50	1.50	0.035	0.350	5000.000	90.000	SEDS A/B
67.50	69.00	1.50	0.035	0.350	5000.000	85.000	SEDS A/B
69.00	70.50	1.50	0.035	0.350	5000.000	140.000	SEDS A/B
70.50	72.00	1.50	0.035	0.350	5000.000	250.000	SEDS A/B
72.00	73.50	1.50	0.035	0.350	4100.000	250.000	SEDS A/B
73.50	75.00	1.50	0.100	0.350	5000.000	140.000	SEDS A/B
75.00	76.50	1.50	0.510	2.100	3400.000	110.000	SEDS A/B
76.50	78.00	1.50	0.510	1.400	2800.000	37.000	RHYL 3am 3% PY
78.00	79.50	1.50	1.440	1.400	5000.000	29.000	RHYL 3am 3% PY
79.50	81.00	1.50	0.340	0.700	5000.000	11.000	RHYL 3am 3% PY
81.00	82.50	1.50	0.210	0.700	4100.000	9.000	RHYL 3am 3% PY
82.50	84.00	1.50	0.170	0.350	1300.000	33.000	RHYL 3am 3% PY
84.00	85.50	1.50	0.270	0.350	520.000	85.000	RHYL 3am 3% PY
85.50	87.00	1.50	0.140	0.350	545.000	65.000	RHYL 3am 3% PY
87.00	88.50	1.50	0.100	0.350	390.000	65.000	RHYL 3am 3% PY
88.50	90.00	1.50	0.170	0.350	440.000	85.000	RHYL 3am 3% PY
90.00	91.50	1.50	0.070	0.350	510.000	33.000	RHYL 3am 3% PY
91.50	93.00	1.50	0.035	0.350	520.000	8.000	RHYL 3am 3% PY
93.00	94.50	1.50	0.035	0.350	700.000	11.000	RHYL 3am 3% PY
94.50	96.00	1.50	0.035	0.350	380.000	12.000	RHYL 3am 3% PY
96.00	97.50	1.50	0.035	0.350	280.000	33.000	TUFF A
97.50	99.00	1.50	0.035	0.350	420.000	70.000	TUFF A
99.00	100.50	1.50	0.070	0.700	110.000	70.000	TUFF A
100.50	102.00	1.50	0.270	1.400	150.000	85.000	TUFF A
102.00	103.50	1.50	0.210	1.000	160.000	110.000	TUFF A FR 2Aa, 3V qz
103.50	105.00	1.50	0.450	2.100	170.000	42.000	TUFF A FR 2Aa, 3V qz
105.00	106.50	1.50	0.380	1.700	110.000	95.000	TUFF A FR 2Aa, 3V qz
106.50	108.00	1.50	0.310	2.100	120.000	85.000	TUFF A FR 2Aa, 3V qz
108.00	109.50	1.50	1.710	3.100	290.000	75.000	TUFF A FR 2Aa, 3V qz
109.50	111.00	1.50	0.620	2.400	160.000	33.000	TUFF A FR 2Aa, 3V qz
111.00	112.50	1.50	0.140	1.000	80.000	50.000	TUFF A FR 2Aa, 3V qz
112.50	114.00	1.50	0.100	1.000	80.000	48.000	TUFF A FR 2Aa, 3V qz
114.00	115.50	1.50	0.380	3.800	190.000	27.000	TUFF A FR 2Aa, 3V qz
115.50	117.00	1.50	0.240	2.100	150.000	19.000	TUFF A FR 2Aa, 3V qz
117.00	118.50	1.50	0.450	4.100	420.000	38.000	TUFF A FR 2Aa, 3V qz
118.50	120.00	1.50	0.340	1.400	135.000	44.000	TUFF A

FROM	TO	WIDTH	Au gpt	Ag gpt	Hg ppb	As ppm	ROCK TYPE
120.00	121.50	1.50	0.170	1.000	90.000	90.000	TUFF A
121.50	123.00	1.50	0.210	1.400	100.000	37.000	TUFF A
123.00	124.50	1.50	0.100	1.000	85.000	40.000	TUFF A
124.50	126.00	1.50	0.140	1.000	65.000	45.000	TUFF A
126.00	127.50	1.50	0.100	1.000	45.000	55.000	TUFF A
127.50	129.00	1.50	0.100	1.000	60.000	70.000	TUFF A
129.00	130.50	1.50	0.750	1.700	90.000	90.000	TUFF A
130.50	132.00	1.50	0.100	1.000	45.000	55.000	TUFF A
132.00	133.50	1.50	2.980	4.100	160.000	130.000	TUFF A
133.50	135.00	1.50	0.310	1.000	50.000	55.000	TUFF A
135.00	136.50	1.50	0.100	0.700	45.000	60.000	TUFF A
136.50	138.00	1.50	0.340	1.400	100.000	90.000	TUFF A
138.00	139.50	1.50	0.310	1.400	95.000	250.000	TUFF A
139.50	141.00	1.50	0.240	1.700	95.000	110.000	TUFF A
141.00	142.50	1.50	0.380	1.000	70.000	85.000	TUFF A
142.50	144.00	1.50	0.170	0.700	50.000	75.000	TUFF A
144.00	145.50	1.50	0.210	0.700	90.000	180.000	TUFF A
145.50	147.00	1.50	0.100	0.700	40.000	130.000	TUFF A
147.00	148.50	1.50	0.170	1.000	50.000	300.000	TUFF A
148.50	150.00	1.50	0.240	1.000	70.000	250.000	TUFF A
150.00	151.50	1.50	0.140	1.000	70.000	300.000	TUFF A
151.50	153.00	1.50	0.860	1.700	110.000	85.000	TUFF A FR 2Aa, 3V qz-cb
153.00	154.50	1.50	0.070	0.700	50.000	190.000	TUFF A FR 2Aa, 3V qz-cb
154.50	156.00	1.50	0.140	0.700	65.000	190.000	TUFF A FR 2Aa, 3V qz-cb
156.00	157.50	1.50	0.170	1.000	50.000	120.000	TUFF A FR 2Aa, 3V qz-cb
157.50	159.00	1.50	0.100	1.000	70.000	90.000	TUFF A FR 2Aa, 3V qz-cb
159.00	160.50	1.50	0.170	1.000	80.000	85.000	TUFF A FR 2Aa, 3V qz-cb
160.50	162.00	1.50	0.100	0.700	85.000	140.000	TUFF A FR 2Aa, 3V qz-cb
162.00	163.50	1.50	0.240	1.000	150.000	250.000	TUFF A FR 2Aa, 3V qz-cb
163.50	165.00	1.50	0.070	0.700	85.000	300.000	TUFF A
165.00	166.50	1.50	0.100	0.700	100.000	500.000	TUFF A
166.50	168.00	1.50	0.140	1.000	95.000	65.000	TUFF A
168.00	169.50	1.50	0.510	1.000	280.000	130.000	TUFF A
169.50	171.00	1.50	0.100	0.350	60.000	110.000	TUFF A
171.00	172.50	1.50	0.100	0.700	70.000	140.000	TUFF A
172.50	174.00	1.50	0.070	0.700	75.000	55.000	TUFF A
174.00	175.50	1.50	0.170	0.700	75.000	39.000	TUFF A
175.50	177.00	1.50	0.100	1.000	95.000	150.000	TUFF A
177.00	178.50	1.50	0.100	0.350	70.000	100.000	TUFF A 3Aa
178.50	180.00	1.50	0.035	0.350	70.000	85.000	TUFF A 3Aa
180.00	181.50	1.50	0.070	0.700	90.000	250.000	-------
181.50	183.00	1.50	0.035	0.700	70.000	130.000	-------
183.00	184.50	1.50	0.070	1.400	110.000	140.000	-------
184.50	186.00	1.50	0.070	1.000	95.000	450.000	-------
186.00	187.50	1.50	0.070	0.700	90.000	140.000	-------
187.50	189.00	1.50	0.100	1.000	80.000	350.000	-------
189.00	190.50	1.50	0.100	0.700	80.000	400.000	-------

** BORSURV **

SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: GRCK
HOLE NO: 36
INSTRUMENT: TH

DATE: 88
SURVEY BY: NOR

DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-45.00	180.00	10150.320	10075.810	823.450
265.00	-53.70	184.00	10144.295	9903.284	622.394
271.27	-53.70	184.00	10144.036	9899.582	617.341

PROPERTY: GRCK
HOLE No: 36

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1. ZONE C (4.50 d.t. Core Angle: 65 4.08 t.t.)

		EASTINGS:	10146.04
FROM:	188.12	NORTHINGS:	9953.34
		ELEVATION:	680.72

1.360 Au gmt
2.400 Ag gmt
111.667 Hg ppb
85.000 As ppm

		EASTINGS:	10145.94
TO:	192.62	NORTHINGS:	9950.41
		ELEVATION:	677.31

2. ZONE B (1.50 d.t. Core Angle: 65 1.36 t.t.)

		EASTINGS:	10146.83
FROM:	153.62	NORTHINGS:	9975.80
		ELEVATION:	706.90

0.550 Au gmt
15.100 Ag gmt
700.000 Hg ppb
50.000 As ppm

		EASTINGS:	10146.79
TO:	155.12	NORTHINGS:	9974.82
		ELEVATION:	705.76

3. ZONE D (1.50 d.t. Core Angle: 65 1.36 t.t.)

		EASTINGS:	10145.84
FROM:	197.12	NORTHINGS:	9947.48
		ELEVATION:	673.89

1.200 Au gmt
2.700 Ag gmt
115.000 Hg ppb
100.000 As ppm

		EASTINGS:	10145.80
TO:	198.62	NORTHINGS:	9946.50
		ELEVATION:	672.76

4. MAIN ZONE (1.50 d.t. Core Angle: 65 1.36 t.t.)

		EASTINGS:	10146.42
FROM:	171.62	NORTHINGS:	9964.08
		ELEVATION:	693.24

4.420 Au gmt
37.700 Ag gmt
2250.000 Hg ppb
150.000 As ppm

		EASTINGS:	10146.38
TO:	173.12	NORTHINGS:	9963.10
		ELEVATION:	692.10

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5. MZ (4.50 d.t. Core Angle: 65 4.08 t.t.)

		EASTINGS:	10146.38
FROM:	173.12 ----------	NORTHINGS:	9963.10
		ELEVATION:	692.10
	0.583 Au gmt		
	2.967 Ag gmt		
	260.000 Hg ppb		
	103.333 As ppm		
		EASTINGS:	10146.28
TO:	177.62 ----------	NORTHINGS:	9960.17
		ELEVATION:	688.69

6. ZONE E (1.50 d.t. Core Angle: 65 1.36 t.t.)

		EASTINGS:	10144.47
FROM:	257.12 ----------	NORTHINGS:	9908.41
		ELEVATION:	628.37
	0.650 Au gmt		
	19.500 Ag gmt		
	1450.000 Hg ppb		
	1000.000 As ppm		
		EASTINGS:	10144.44
TO:	258.62 ----------	NORTHINGS:	9907.44
		ELEVATION:	627.23

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
39.62	41.10	1.48	0.035	0.350	40.000	9.000	SEDS A/B/C
41.10	42.62	1.52	0.035	0.350	110.000	9.000	SEDS A/B/C
42.62	44.12	1.50	0.035	0.350	55.000	8.000	SEDS A/B/C
44.12	45.62	1.50	0.035	0.350	45.000	7.000	SEDS A/B/C
45.62	47.12	1.50	0.035	0.350	105.000	13.000	SEDS A/B/C
47.12	48.62	1.50	0.035	0.350	70.000	15.000	SEDS A/B/C
48.62	50.12	1.50	0.035	0.350	95.000	11.000	SEDS A/B/C
50.12	51.62	1.50	0.035	0.350	70.000	7.000	SEDS A/B/C
51.62	53.12	1.50	0.035	0.350	50.000	4.000	SEDS A/B/C
53.12	54.62	1.50	0.035	0.350	95.000	19.000	SEDS A/B/C
54.62	56.12	1.50	0.035	0.350	130.000	17.000	SEDS A/B/C
56.12	57.62	1.50	0.035	0.350	85.000	9.000	SEDS A/B/C
57.62	59.12	1.50	0.035	0.350	105.000	9.000	SEDS A/B/C
59.12	60.62	1.50	0.035	0.350	70.000	3.000	SEDS A/B/C
60.62	62.12	1.50	0.035	0.350	80.000	4.000	SEDS A/B/C
62.12	63.62	1.50	0.035	0.350	85.000	2.000	SEDS A/B/C
63.62	65.12	1.50	0.035	0.350	85.000	1.000	SEDS A/B/C
65.12	66.62	1.50	0.035	0.350	80.000	3.000	SEDS A/B/C
66.62	68.12	1.50	0.035	0.350	115.000	4.000	SEDS A/B/C
68.12	69.62	1.50	0.035	0.350	140.000	2.000	SEDS A/B/C
69.62	71.12	1.50	0.035	0.350	150.000	3.000	SEDS A/B/C
71.12	72.62	1.50	0.035	0.350	145.000	2.000	SEDS A/B/C
72.62	74.12	1.50	0.035	0.350	75.000	2.000	SEDS A/B/C
74.12	75.62	1.50	0.035	0.350	90.000	1.000	SEDS A/B/C
75.62	77.12	1.50	0.035	0.350	90.000	4.000	SEDS A/B/C
77.12	78.62	1.50	0.035	0.350	125.000	2.000	SEDS A/B/C
78.62	80.12	1.50	0.035	0.350	85.000	3.000	SEDS A/B/C
80.12	81.62	1.50	0.035	0.350	75.000	3.000	SEDS A/B/C
81.62	83.12	1.50	0.035	0.350	60.000	2.000	SEDS A/B/C
83.12	84.62	1.50	0.035	0.350	300.000	8.000	SEDS A/B/C
84.62	86.12	1.50	0.035	0.350	395.000	49.000	SEDS A/B/C
86.12	87.62	1.50	0.035	0.350	265.000	35.000	SEDS A/B/C
87.62	89.12	1.50	0.035	0.350	240.000	40.000	SEDS A/B/C
89.12	90.62	1.50	0.035	0.350	500.000	70.000	SEDS A/B/C
90.62	92.12	1.50	0.035	0.350	305.000	42.000	SEDS A/B/C
92.12	93.62	1.50	0.035	0.350	125.000	17.000	SEDS A/B/C
93.62	95.12	1.50	0.035	0.350	135.000	13.000	SEDS A/B/C
95.12	96.62	1.50	0.035	0.350	105.000	6.000	SEDS A/B/C
96.62	98.12	1.50	0.035	0.350	160.000	7.000	SEDS A/B/C
98.12	99.62	1.50	0.035	0.350	110.000	3.000	SEDS A/B/C
99.62	101.12	1.50	0.035	0.350	160.000	6.000	SEDS A/B/C
101.12	102.62	1.50	0.035	0.350	225.000	22.000	SEDS A/B/C
102.62	104.12	1.50	0.035	0.350	160.000	3.000	SEDS A/B/C
104.12	105.62	1.50	0.035	0.350	535.000	3.000	SEDS A/B/C
105.62	107.12	1.50	0.035	0.350	310.000	4.000	SEDS A/B/C
107.12	108.62	1.50	0.035	0.350	370.000	7.000	SEDS A/B/C
108.62	110.12	1.50	0.035	0.350	510.000	12.000	SEDS A/B/C
110.12	111.62	1.50	0.035	0.350	600.000	17.000	SEDS A/B/C
111.62	113.12	1.50	0.035	0.350	420.000	11.000	SEDS A/B/C
113.12	114.62	1.50	0.035	0.350	600.000	25.000	SEDS A/B/C

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
114.62	116.12	1.50	0.035	0.350	505.000	8.000	SEDS A/B/C
116.12	117.62	1.50	0.035	0.350	600.000	7.000	SEDS A/B/C
117.62	119.12	1.50	0.035	0.350	1500.000	48.000	SEDS A/B/C
119.12	120.62	1.50	0.035	0.350	3750.000	130.000	TUFF A 3Aa
120.62	122.12	1.50	0.035	0.350	2000.000	28.000	TUFF A 3Aa
122.12	123.62	1.50	0.035	0.350	2050.000	140.000	TUFF A 3Aa
123.62	125.12	1.50	0.035	0.350	1800.000	29.000	TUFF A 3Aa
125.12	126.62	1.50	0.035	0.350	1550.000	140.000	SEDS A/B/C & TUFF B
126.62	128.12	1.50	0.035	0.350	1550.000	65.000	SEDS A/B/C & TUFF B
128.12	129.62	1.50	0.035	0.350	4400.000	160.000	SEDS A/B/C & TUFF B
129.62	131.12	1.50	0.035	0.350	5000.000	300.000	SEDS A/B/C & TUFF B
131.12	132.62	1.50	0.035	0.350	5000.000	550.000	SEDS A/B/C & TUFF B
132.62	134.12	1.50	0.035	0.350	5000.000	250.000	SEDS A/B/C & TUFF B
134.12	135.62	1.50	0.070	0.350	2000.000	70.000	SEDS A/B/C & TUFF B
135.62	137.12	1.50	0.035	0.350	650.000	55.000	SEDS A/B/C & TUFF B
137.12	138.62	1.50	0.035	0.350	750.000	43.000	RHLT A
138.62	140.12	1.50	0.035	0.350	550.000	41.000	RHLT A
140.12	141.62	1.50	0.035	0.700	900.000	130.000	RHLT A
141.62	143.12	1.50	0.035	0.350	245.000	40.000	RHLT A
143.12	144.62	1.50	0.070	0.700	385.000	55.000	TUFF A 3Aa, 3V qz-cb
144.62	146.12	1.50	0.035	0.700	600.000	75.000	TUFF A 3Aa, 3V qz-cb
146.12	147.62	1.50	0.035	0.700	700.000	48.000	TUFF A 3Aa, 3V qz-cb
147.62	149.12	1.50	0.100	1.000	290.000	46.000	TUFF A 3Aa, 3V qz-cb
149.12	150.62	1.50	0.100	1.400	340.000	43.000	TUFF A 3Aa, 3V qz-cb
150.62	152.12	1.50	0.270	4.100	300.000	75.000	TUFF A 3Aa, 3V qz-cb
152.12	153.62	1.50	0.240	1.400	120.000	78.000	TUFF A 3Aa, 3V qz-cb
153.62	155.12	1.50	0.550	15.100	700.000	50.000	TUFF A 3Aa, 3V qz-cb
155.12	156.62	1.50	0.410	2.400	150.000	55.000	TUFF A 3Aa, 3V qz-cb
156.62	158.12	1.50	0.070	1.000	90.000	60.000	TUFF A 3Aa, 3V qz-cb
158.12	159.62	1.50	0.070	1.000	75.000	50.000	TUFF A 3Aa, 3V qz-cb
159.62	161.12	1.50	0.580	1.400	325.000	65.000	TUFF A 3Aa, 3V qz-cb
162.62	164.12	1.50	0.035	1.000	80.000	48.000	TUFF A 3Aa, 3V qz-cb
164.12	165.62	1.50	0.140	2.100	195.000	70.000	TUFF A 3Aa, 3V qz-cb
167.12	168.62	1.50	0.035	1.400	80.000	80.000	TUFF A 2Aa, 3V qz-cb
168.62	170.12	1.50	0.035	1.000	65.000	65.000	TUFF A 2Aa, 3V qz-cb
171.62	173.12	1.50	4.420	37.700	2250.000	150.000	TUFF A 2Aa, 3V qz-cb
173.12	174.62	1.50	0.240	1.700	260.000	90.000	TUFF A 2Aa, 3V qz-cb
174.62	176.12	1.50	0.380	5.500	375.000	120.000	TUFF A 2Aa, 3V qz-cb
176.12	177.62	1.50	1.130	1.700	145.000	100.000	TUFF A 2Aa, 3V qz-cb
177.62	179.12	1.50	0.210	1.700	275.000	80.000	TUFF A 2Aa, 3V qz-cb
179.12	180.62	1.50	0.035	1.000	225.000	60.000	TUFF A 2Aa, 3V qz-cb
180.62	182.12	1.50	0.035	1.000	90.000	75.000	TUFF A 2Aa, 3V qz-cb
182.12	183.62	1.50	0.070	1.400	75.000	75.000	TUFF A 2Aa, 3V qz-cb
183.62	185.12	1.50	0.690	2.400	125.000	120.000	TUFF A 2Aa, 3V qz-cb
185.12	186.62	1.50	0.070	1.000	70.000	80.000	TUFF A 2Aa, 3V qz-cb
186.62	188.12	1.50	0.270	1.400	80.000	90.000	TUFF A 2Aa, 3V qz-cb
188.12	189.62	1.50	1.610	1.700	60.000	75.000	TUFF A 2Aa, 3V qz-cb
189.62	191.12	1.50	0.930	2.400	120.000	80.000	TUFF A 2Aa, 3V qz-cb
191.12	192.62	1.50	1.540	3.100	155.000	100.000	TUFF A 2Aa, 3V qz-cb
192.62	194.12	1.50	0.340	1.400	95.000	150.000	TUFF A 2Aa, 3V qz-cb

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
194.12	195.62	1.50	0.450	1.700	85.000	150.000	TUFF A 2Aa, 3V qz-cb
195.62	197.12	1.50	0.240	1.000	70.000	90.000	TUFF A 2Aa, 3V qz-cb
197.12	198.62	1.50	1.200	2.700	115.000	100.000	TUFF A 2Aa, 3V qz-cb
198.62	200.12	1.50	0.790	1.700	110.000	100.000	TUFF A 2Aa, 3V qz-cb
200.12	201.62	1.50	0.450	1.000	65.000	100.000	TUFF A 2Aa, 3V qz-cb
201.62	203.12	1.50	0.410	1.400	75.000	90.000	TUFF A 2Aa, 3V qz-cb
203.12	204.62	1.50	0.310	1.000	55.000	90.000	TUFF A FR 1Aa, 3V qz-cb
204.62	206.12	1.50	0.450	1.400	75.000	120.000	TUFF A FR 1Aa, 3V qz-cb
206.12	207.62	1.50	0.100	0.700	45.000	80.000	TUFF A 1As, 1S qz
207.62	209.12	1.50	0.720	1.400	75.000	85.000	TUFF A 1As, 1S qz
209.12	210.62	1.50	0.480	1.000	45.000	95.000	TUFF A 1As, 1S qz
210.62	212.12	1.50	0.100	0.700	50.000	110.000	TUFF A 1As, 1S qz
212.12	213.62	1.50	0.340	1.400	65.000	150.000	TUFF A 1As, 1S qz
213.62	215.12	1.50	0.890	2.100	125.000	110.000	TUFF A FR 1Aa
215.12	216.62	1.50	0.035	1.000	65.000	130.000	TUFF A FR 1Aa
216.62	218.12	1.50	0.035	1.000	60.000	180.000	TUFF A FR 1Aa
218.12	219.62	1.50	0.035	0.700	50.000	80.000	TUFF A FR 1Aa
219.62	221.12	1.50	0.035	0.700	50.000	100.000	TUFF A FR 1Aa
221.12	222.62	1.50	0.070	0.700	60.000	150.000	TUFF A FR 1Aa
222.62	224.12	1.50	0.035	0.700	45.000	130.000	TUFF A FR 1Aa
224.12	225.62	1.50	0.100	0.700	30.000	80.000	TUFF A FR 1Aa
225.62	227.12	1.50	0.210	1.400	95.000	150.000	TUFF A FR 1Aa
227.12	228.62	1.50	0.210	1.400	105.000	100.000	TUFF A FR 1Aa
228.62	230.12	1.50	0.100	0.700	70.000	40.000	TUFF A FR 1Aa
230.12	231.62	1.50	0.070	0.700	75.000	65.000	TUFF A FR 1Aa
231.62	233.12	1.50	0.035	0.700	65.000	130.000	TUFF A FR 1Aa
233.12	234.62	1.50	0.035	0.700	65.000	200.000	TUFF A FR 1Aa
234.62	236.12	1.50	0.035	0.350	50.000	80.000	TUFF A
236.12	237.62	1.50	0.035	0.350	45.000	40.000	TUFF A
237.62	239.12	1.50	0.070	1.000	60.000	300.000	TUFF A
239.12	240.62	1.50	0.100	1.000	60.000	400.000	TUFF A
240.62	242.12	1.50	0.100	1.400	60.000	450.000	TUFF A
242.12	243.62	1.50	0.070	1.000	50.000	350.000	TUFF A
243.62	245.12	1.50	0.140	1.000	40.000	400.000	TUFF A
245.12	246.62	1.50	0.035	0.350	50.000	90.000	TUFF A
246.62	248.12	1.50	0.035	0.350	75.000	40.000	TUFF A
248.12	249.62	1.50	0.035	0.350	20.000	17.000	TUFF A
249.62	251.12	1.50	0.035	0.350	30.000	11.000	TUFF A
251.12	252.62	1.50	0.070	0.350	30.000	22.000	TUFF A
252.62	254.12	1.50	0.035	0.350	20.000	7.000	TUFF A
254.12	255.62	1.50	0.035	0.350	35.000	28.000	TUFF A
255.62	257.12	1.50	0.035	0.350	55.000	14.000	TUFF A
257.12	258.62	1.50	0.650	19.500	1450.000	1000.000	TUFF A
258.62	260.12	1.50	0.035	0.350	40.000	14.000	TUFF A
260.12	261.62	1.50	0.035	0.350	40.000	7.000	TUFF A
261.62	263.12	1.50	0.035	0.700	40.000	5.000	TUFF A
263.12	264.62	1.50	0.035	0.350	75.000	13.000	TUFF A
264.62	266.12	1.50	0.035	0.350	40.000	6.000	TUFF A
266.12	267.62	1.50	0.035	0.700	185.000	95.000	TUFF A
267.62	269.12	1.50	0.035	0.350	65.000	16.000	TUFF A

ASSAY LOG
PROPERTY: GRCK
HOLE No.: 36

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
269.12	270.62	1.50	0.035	0.350	100.000	23.000	TUFF A
270.62	271.27	0.65	0.035	0.350	45.000	3.000	TUFF A

** BORSURV **

SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: GRCK
HOLE NO: 72
INSTRUMENT: CHAIN

DATE: J88
SURVEY BY: AS

DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-55.00	0.00	10149.830	9796.090	845.100
161.50	-57.50	3.70	10152.727	9885.768	710.818
327.96	-60.50	2.20	10157.139	9971.387	568.134

** BORSURV **

AVERAGED ASSAY INTERVALS
PROPERTY: GRCK
HOLE No: 72

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1. ZONE E (1.50 d.t. Core Angle: 35 0.86 t.t.)

		EASTINGS:	10154.79
FROM:	239.50 ----------	NORTHINGS:	9925.89
		ELEVATION:	643.96
	1.440 Au gmt		
	1.700 Ag gmt		
	180.000 Hg ppb		
	132.000 As ppm		
		EASTINGS:	10154.83
TO:	241.00 ----------	NORTHINGS:	9926.66
		ELEVATION:	642.67

2. ZONE D (1.50 d.t. Core Angle: 35 0.86 t.t.)

		EASTINGS:	10154.99
FROM:	247.00 ----------	NORTHINGS:	9929.75
		ELEVATION:	637.53
	2.610 Au gmt		
	1.700 Ag gmt		
	260.000 Hg ppb		
	73.000 As ppm		
		EASTINGS:	10155.03
TO:	248.50 ----------	NORTHINGS:	9930.52
		ELEVATION:	636.24

3. ZONE C (1.50 d.t. Core Angle: 35 0.86 t.t.)

		EASTINGS:	10155.71
FROM:	274.00 ----------	NORTHINGS:	9943.63
		ELEVATION:	614.39
	1.170 Au gmt		
	2.100 Ag gmt		
	170.000 Hg ppb		
	45.000 As ppm		
		EASTINGS:	10155.75
TO:	275.50 ----------	NORTHINGS:	9944.40
		ELEVATION:	613.10

4. MAIN ZONE (3.00 d.t. Core Angle: 35 1.72 t.t.)

		EASTINGS:	10156.78
FROM:	314.50 ----------	NORTHINGS:	9964.46
		ELEVATION:	579.67
	2.025 Au gmt		
	3.750 Ag gmt		
	155.000 Hg ppb		
	778.500 As ppm		
		EASTINGS:	10156.86
TO:	317.50 ----------	NORTHINGS:	9966.01
		ELEVATION:	577.10

ASSAY LOG
PROPERTY: GRCK
HOLE No.: 72

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
28.30	29.50	1.20	0.035	0.350	60.000	24.000	TUFF C 2Aa, 3Ac
29.50	31.00	1.50	0.035	0.350	100.000	7.000	TUFF C 2Aa, 3Ac
31.00	32.50	1.50	0.035	0.350	110.000	9.000	TUFF C 2Aa, 3Ac
32.50	34.00	1.50	0.035	0.350	140.000	9.000	TUFF C 2Aa, 3Ac
34.00	35.50	1.50	0.035	0.350	130.000	9.000	TUFF C 2Aa, 3Ac
35.50	37.00	1.50	0.035	0.350	140.000	10.000	TUFF C 2Aa, 3Ac
37.00	38.50	1.50	0.035	0.350	130.000	11.000	TUFF C 2Aa, 3Ac
38.50	40.00	1.50	0.035	0.350	120.000	9.000	TUFF C 2Aa, 3Ac
40.00	41.50	1.50	0.035	0.350	130.000	8.000	TUFF C 2Aa, 3Ac
41.50	43.00	1.50	0.035	0.350	130.000	6.000	TUFF C 2Aa, 3Ac
43.00	44.50	1.50	0.035	0.350	120.000	5.000	TUFF C 2Aa, 3Ac
44.50	46.00	1.50	0.035	1.000	140.000	7.000	TUFF C 2Aa, 3Ac
46.00	47.50	1.50	0.035	0.350	160.000	17.000	TUFF C 2Aa, 3Ac
47.50	49.00	1.50	0.035	0.350	190.000	14.000	TUFF C 2Aa, 3Ac
49.00	50.50	1.50	0.035	0.350	100.000	6.000	TUFF C 2Aa, 3Ac
50.50	52.00	1.50	0.070	0.350	130.000	16.000	TUFF C 2Aa, 3Ac
52.00	53.50	1.50	0.035	0.350	120.000	7.000	TUFF C 2Aa, 3Ac
53.50	55.00	1.50	0.035	0.350	90.000	16.000	TUFF C 2Aa, 3Ac
55.00	56.50	1.50	0.035	0.350	80.000	3.000	TUFF C 2Aa, 3Ac
56.50	58.00	1.50	0.035	0.350	80.000	6.000	TUFF C 2Aa, 3Ac
58.00	59.50	1.50	0.035	0.350	80.000	13.000	TUFF C 2Aa, 3Ac
59.50	61.00	1.50	0.035	0.350	110.000	11.000	TUFF C 2Aa, 3Ac
61.00	62.50	1.50	0.035	0.350	180.000	9.000	TUFF C 2Aa, 3Ac
62.50	64.00	1.50	0.035	0.350	140.000	18.000	TUFF C 2Aa, 3Ac
64.00	65.50	1.50	0.035	0.350	90.000	14.000	TUFF C 2Aa, 3Ac
65.50	67.00	1.50	0.035	0.350	100.000	13.000	TUFF C 2Aa, 3Ac
67.00	68.50	1.50	0.035	0.350	110.000	8.000	TUFF C 2Aa, 3Ac
68.50	70.00	1.50	0.035	0.700	220.000	24.000	TUFF C 2Aa, 3Ac
70.00	71.50	1.50	0.070	0.350	180.000	40.000	TUFF C 2Aa, 3Ac
71.50	73.00	1.50	0.100	0.350	110.000	179.000	TUFF A
73.00	74.50	1.50	0.070	0.350	130.000	174.000	TUFF A
74.50	76.00	1.50	0.100	0.350	80.000	192.000	TUFF A
76.00	77.50	1.50	0.070	0.350	70.000	217.000	TUFF A
77.50	79.00	1.50	0.035	0.350	80.000	171.000	TUFF A
79.00	80.50	1.50	0.035	0.350	100.000	105.000	TUFF A
80.50	82.00	1.50	0.035	0.350	90.000	91.000	TUFF A
82.00	83.50	1.50	0.035	0.350	110.000	158.000	TUFF A
83.50	85.00	1.50	0.035	0.350	90.000	168.000	TUFF A
85.00	86.50	1.50	0.070	0.350	100.000	184.000	TUFF A
86.50	88.00	1.50	0.035	0.350	120.000	114.000	TUFF A/F
88.00	89.50	1.50	0.070	0.350	320.000	91.000	TUFF A/F
89.50	91.00	1.50	0.100	1.000	170.000	182.000	TUFF A/F
91.00	92.50	1.50	0.070	0.700	130.000	215.000	TUFF A/F
92.50	94.00	1.50	0.140	0.700	120.000	225.000	TUFF A/F
94.00	95.50	1.50	0.070	0.350	70.000	155.000	DIOR
95.50	97.00	1.50	0.035	0.350	130.000	44.000	DIOR
97.00	98.50	1.50	0.035	0.350	100.000	43.000	TUFF A/F
98.50	100.00	1.50	0.035	0.350	90.000	45.000	TUFF A/D 2Aa
100.00	101.50	1.50	0.035	0.350	380.000	22.000	TUFF A/D 2Aa
101.50	103.00	1.50	0.070	0.350	300.000	45.000	TUFF A/D 2Aa

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
103.00	104.50	1.50	0.035	0.350	170.000	54.000	TUFF C 2Aa
104.50	106.00	1.50	0.035	0.350	850.000	12.000	TUFF C 2Aa
106.00	107.50	1.50	0.035	0.350	540.000	52.000	TUFF C 2Aa
107.50	109.00	1.50	0.035	0.350	250.000	65.000	TUFF C 2Aa
109.00	110.50	1.50	0.035	0.350	450.000	18.000	TUFF C 2Aa
110.50	112.00	1.50	0.035	0.350	820.000	24.000	TUFF C 2Aa
112.00	113.50	1.50	0.035	0.350	480.000	51.000	TUFF C 2Aa
113.50	115.00	1.50	0.035	0.350	460.000	51.000	RHLT A 3Aa 3Vqz,cb
115.00	116.50	1.50	0.035	0.350	390.000	40.000	RHLT A 3Aa 3Vqz,cb
116.50	118.00	1.50	0.035	0.350	350.000	25.000	RHLT A 3Aa 3Vqz,cb
118.00	119.50	1.50	0.035	0.350	300.000	12.000	RHLT A 3Aa 3Vqz,cb
119.50	121.00	1.50	0.035	0.350	880.000	14.000	TUFF F
121.00	122.50	1.50	0.070	0.700	210.000	39.000	TUFF F
122.50	124.00	1.50	0.035	0.350	320.000	19.000	RHLT A
124.00	125.50	1.50	0.035	0.350	860.000	8.000	RHLT A
125.50	127.00	1.50	0.035	0.350	680.000	9.000	RHLT A
127.00	128.50	1.50	0.035	0.350	640.000	13.000	RHLT A
128.50	130.00	1.50	0.035	0.350	1200.000	2.000	ANDE A
130.00	131.50	1.50	0.035	0.350	1000.000	2.000	ANDE A
131.50	133.00	1.50	0.035	0.350	780.000	2.000	ANDE A
133.00	134.50	1.50	0.035	0.350	510.000	2.000	ANDE A
134.50	136.00	1.50	0.035	0.350	550.000	2.000	ANDE A
136.00	137.50	1.50	0.035	0.700	950.000	4.000	RHLT A
137.50	139.00	1.50	0.035	0.350	730.000	20.000	RHLT A
139.00	140.50	1.50	0.035	0.350	350.000	25.000	TUFF F
140.50	142.00	1.50	0.035	0.350	200.000	14.000	TUFF F
142.00	143.50	1.50	0.035	0.350	210.000	21.000	TUFF A/F
143.50	145.00	1.50	0.035	0.350	240.000	41.000	TUFF A/F
145.00	146.50	1.50	0.035	0.350	230.000	36.000	TUFF A/F
146.50	148.00	1.50	0.035	0.350	200.000	43.000	TUFF A/F
148.00	149.50	1.50	0.035	0.350	160.000	32.000	TUFF A
149.50	151.00	1.50	0.035	0.350	50.000	34.000	TUFF A
151.00	152.50	1.50	0.035	0.350	60.000	29.000	TUFF A
152.50	154.00	1.50	0.035	0.350	40.000	19.000	TUFF A
154.00	155.50	1.50	0.035	0.350	30.000	23.000	TUFF A
155.50	157.00	1.50	0.035	0.350	40.000	30.000	TUFF A
157.00	158.50	1.50	0.035	0.350	40.000	60.000	TUFF A
158.50	160.00	1.50	0.035	0.350	30.000	34.000	TUFF A
160.00	161.50	1.50	0.035	0.350	20.000	34.000	TUFF A
161.50	163.00	1.50	0.035	0.350	50.000	22.000	TUFF A
163.00	164.50	1.50	0.035	0.350	40.000	40.000	TUFF A
164.50	166.00	1.50	0.035	0.350	40.000	25.000	TUFF A
166.00	167.50	1.50	0.035	0.350	30.000	28.000	TUFF A
167.50	169.00	1.50	0.035	0.350	60.000	31.000	TUFF A
169.00	170.50	1.50	0.035	0.350	50.000	25.000	TUFF A
170.50	172.00	1.50	0.035	0.350	60.000	16.000	TUFF A
172.00	173.50	1.50	0.035	0.350	50.000	15.000	TUFF A
173.50	175.00	1.50	0.035	0.350	40.000	35.000	TUFF A
175.00	176.50	1.50	0.035	0.350	40.000	26.000	TUFF A
176.50	178.00	1.50	0.035	0.350	30.000	24.000	TUFF A

ASSAY LOG
PROPERTY: GRCK
HOLE No.: 72

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
178.00	179.50	1.50	0.035	0.350	40.000	50.000	TUFF A
179.50	181.00	1.50	0.070	0.350	60.000	213.000	TUFF A
181.00	182.50	1.50	0.035	0.350	50.000	149.000	TUFF A
182.50	184.00	1.50	0.070	0.350	60.000	84.000	TUFF A
184.00	185.50	1.50	0.070	0.350	50.000	84.000	TUFF A
185.50	187.00	1.50	0.035	0.350	60.000	224.000	TUFF A
187.00	188.50	1.50	0.010	0.700	40.000	123.000	TUFF A 1Aa,1Sqz,3Vcb
188.50	190.00	1.50	0.270	1.400	80.000	67.000	TUFF A 1Aa,1Sqz,3Vcb
190.00	191.50	1.50	0.140	0.700	110.000	62.000	TUFF A 1Aa,1Sqz,3Vcb
191.50	193.00	1.50	0.140	1.000	160.000	219.000	TUFF A 1Aa,1Sqz,3Vcb
193.00	194.50	1.50	0.070	0.700	220.000	422.000	TUFF A
194.50	196.00	1.50	0.070	0.350	90.000	143.000	TUFF A
196.00	197.50	1.50	0.035	0.350	80.000	64.000	TUFF A
197.50	199.00	1.50	0.035	0.350	600.000	69.000	TUFF A
199.00	200.50	1.50	0.070	0.700	120.000	279.000	TUFF A 1As,1Sqz,py
200.50	202.00	1.50	0.720	1.700	90.000	218.000	TUFF A 1As,1Sqz,py
202.00	203.50	1.50	0.270	1.700	100.000	970.000	TUFF A 1As,1Sqz,py
203.50	205.00	1.50	0.100	0.700	80.000	398.000	TUFF A 1As,1Sqz,py
205.00	206.50	1.50	0.210	1.400	130.000	872.000	TUFF A 1As,1Sqz,py
206.50	208.00	1.50	0.035	0.700	1400.000	76.000	TUFF A 1As,1Sqz,py
208.00	209.50	1.50	0.070	0.700	70.000	169.000	TUFF A 1As,1Sqz,py
209.50	211.00	1.50	0.035	0.350	60.000	83.000	TUFF A 1As,1Sqz,py
211.00	212.50	1.50	0.035	0.350	80.000	172.000	TUFF A 1As,1Sqz,py
212.50	214.00	1.50	0.100	0.700	70.000	391.000	TUFF A 1As,1Sqz,py
214.00	215.50	1.50	0.070	0.700	60.000	313.000	TUFF A 1As,1Sqz,py
215.50	217.00	1.50	0.100	0.700	70.000	317.000	TUFF A 1As,1Sqz,py
217.00	218.50	1.50	0.100	0.700	90.000	199.000	TUFF A 1As,1Sqz,py
218.50	220.00	1.50	0.070	0.700	60.000	366.000	TUFF A 1As,1Sqz,py
220.00	221.50	1.50	0.100	1.000	100.000	204.000	TUFF A 1As,1Sqz,py
221.50	223.00	1.50	0.240	1.400	160.000	115.000	TUFF A 1As,1Sqz,py
223.00	224.50	1.50	0.170	1.400	140.000	86.000	TUFF A 1As,1Sqz,py
224.50	226.00	1.50	0.070	0.700	70.000	45.000	TUFF A 1As,1Sqz,py
226.00	227.50	1.50	0.070	0.700	80.000	70.000	TUFF A 1As,1Sqz,py
227.50	229.00	1.50	0.100	1.000	100.000	378.000	TUFF A 1As,1Sqz,py
229.00	230.50	1.50	0.100	0.700	80.000	235.000	TUFF A 1As,1Sqz,py
230.50	232.00	1.50	0.210	1.000	120.000	297.000	TUFF A 1As,1Sqz,py
232.00	233.50	1.50	0.140	1.000	60.000	170.000	TUFF A 1As,1Sqz,py
233.50	235.00	1.50	0.310	1.400	110.000	108.000	TUFF A 1As,1Sqz,py
235.00	236.50	1.50	0.140	1.000	100.000	171.000	TUFF A 1As,1Sqz,py
236.50	238.00	1.50	0.070	0.700	80.000	75.000	TUFF A 1As,1Sqz,py
238.00	239.50	1.50	0.070	0.700	70.000	60.000	TUFF A 1As,1Sqz,py
239.50	241.00	1.50	1.440	1.700	180.000	132.000	TUFF A 1As,1Sqz,py
241.00	242.50	1.50	0.100	0.700	80.000	102.000	TUFF A 1As,1Sqz,py
242.50	244.00	1.50	0.070	1.000	110.000	81.000	TUFF A 1As,1Sqz,py
244.00	245.50	1.50	0.070	0.700	70.000	58.000	TUFF A 1As,1Sqz,py
245.50	247.00	1.50	0.170	1.000	80.000	200.000	TUFF A 1As,1Sqz,py
247.00	248.50	1.50	2.610	1.700	260.000	73.000	TUFF A 1As,1Sqz,py
248.50	250.00	1.50	0.170	1.000	80.000	84.000	TUFF A 1As,1Sqz,py
250.00	251.50	1.50	0.270	1.000	70.000	33.000	TUFF A 1As,1Sqz,py
251.50	253.00	1.50	0.170	0.700	50.000	48.000	TUFF A 1As,1Sqz,py

ASSAY LOG
PROPERTY: GRCK
HOLE No.: 72

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
253.00	254.50	1.50	0.270	0.700	60.000	34.000	TUFF A 1As,1Sqz,py
254.50	256.00	1.50	0.035	0.350	50.000	28.000	TUFF A 1As,1Sqz,py
256.00	257.50	1.50	0.070	0.700	60.000	95.000	TUFF A 1As,1Sqz,py
257.50	259.00	1.50	0.650	1.400	70.000	100.000	TUFF A 1As,1Sqz,py
259.00	260.50	1.50	0.210	1.000	150.000	111.000	TUFF A 1As,1Sqz,py
260.50	262.00	1.50	0.140	1.000	170.000	67.000	TUFF A 1As,1Sqz,py
262.00	263.50	1.50	0.140	1.000	110.000	195.000	TUFF A 1As,1Sqz,py
263.50	265.00	1.50	0.270	1.700	80.000	137.000	TUFF A 1As,1Sqz,py
265.00	266.50	1.50	0.450	1.400	90.000	114.000	TUFF A 1As,1Sqz,py
266.50	268.00	1.50	0.140	1.000	60.000	74.000	TUFF A 1As,1Sqz,py
268.00	269.50	1.50	0.210	1.000	120.000	63.000	TUFF A 1As,1Sqz,py
269.50	271.00	1.50	0.140	1.000	100.000	55.000	TUFF A 1As,1Sqz,py
271.00	272.50	1.50	0.480	1.700	170.000	81.000	TUFF A 1As,1Sqz,py
272.50	274.00	1.50	0.270	1.000	90.000	58.000	TUFF A
274.00	275.50	1.50	1.170	2.100	170.000	45.000	TUFF A
275.50	277.00	1.50	0.070	0.700	80.000	30.000	TUFF A
277.00	278.50	1.50	0.070	0.700	70.000	46.000	TUFF A
278.50	280.00	1.50	0.035	0.350	60.000	52.000	TUFF A
280.00	281.50	1.50	0.070	0.700	70.000	37.000	TUFF A
281.50	283.00	1.50	0.170	1.000	110.000	183.000	TUFF A
283.00	284.50	1.50	0.140	1.000	140.000	146.000	TUFF A
284.50	286.00	1.50	0.100	0.700	100.000	110.000	TUFF A
286.00	287.50	1.50	0.310	1.400	120.000	139.000	TUFF A
287.50	289.00	1.50	0.210	1.000	90.000	140.000	TUFF A
289.00	290.50	1.50	0.240	1.000	100.000	147.000	TUFF A
290.50	292.00	1.50	0.140	0.700	90.000	131.000	TUFF A
292.00	293.50	1.50	0.100	1.000	100.000	108.000	TUFF A
293.50	295.00	1.50	0.140	1.000	120.000	134.000	TUFF A
295.00	296.50	1.50	0.210	1.000	110.000	162.000	TUFF A
296.50	298.00	1.50	0.240	1.000	80.000	214.000	TUFF A
298.00	299.50	1.50	0.170	1.000	60.000	121.000	TUFF A
299.50	301.00	1.50	0.100	0.700	50.000	85.000	FAULT
301.00	302.50	1.50	0.035	0.700	60.000	56.000	FAULT
302.50	304.00	1.50	0.070	0.700	160.000	77.000	FAULT
304.00	305.50	1.50	0.070	0.700	50.000	65.000	FAULT
305.50	307.00	1.50	0.620	1.400	110.000	119.000	FAULT
307.00	308.50	1.50	0.580	1.000	70.000	201.000	FAULT
308.50	310.00	1.50	0.270	1.000	100.000	216.000	TUFF A
310.00	311.50	1.50	0.210	0.700	1100.000	136.000	TUFF A
311.50	313.00	1.50	0.690	2.100	150.000	155.000	TUFF A
313.00	314.50	1.50	0.480	1.400	100.000	273.000	TUFF A
314.50	316.00	1.50	1.890	2.700	140.000	835.000	TUFF A
316.00	317.50	1.50	2.160	4.800	170.000	722.000	TUFF A
317.50	319.00	1.50	0.310	1.400	80.000	131.000	TUFF A
319.00	320.50	1.50	0.380	1.400	130.000	117.000	TUFF A
320.50	322.00	1.50	0.035	0.350	320.000	104.000	TUFF A
322.00	323.50	1.50	0.450	1.000	230.000	151.000	TUFF A
323.50	325.00	1.50	0.310	1.000	140.000	223.000	TUFF A
325.00	326.50	1.50	0.100	0.700	90.000	173.000	TUFF A
326.50	327.96	1.46	0.170	1.400	130.000	92.000	-------

** BORSURV **

SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: GRCK
HOLE NO: 75
INSTRUMENT: CHAIN

DATE: 3/6/88
SURVEY BY: J.L.D.

DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-45.00	180.00	12014.700	9362.300	847.800
158.50	-49.25	181.20	12013.571	9254.462	731.645
320.04	-47.25	184.20	12008.504	9147.015	611.127
331.01	-47.25	184.20	12007.958	9139.589	603.071

ASSAY LOG
PROPERTY: GRCK
HOLE No.: 75

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
3.75	5.00	1.25	0.035	0.700	70.000	21.000	TUFF C 2Am, 3As
5.00	6.50	1.50	0.035	0.350	60.000	26.000	TUFF C 2Am, 3As
6.50	8.00	1.50	0.035	0.350	60.000	14.000	TUFF C 2Am, 3As
8.00	9.50	1.50	0.035	0.350	60.000	30.000	TUFF C 2Am, 3As
9.50	11.00	1.50	0.035	0.350	70.000	30.000	TUFF C 2Am, 3As
11.00	12.50	1.50	0.070	0.350	70.000	73.000	TUFF C 2Am, 3As
12.50	14.00	1.50	0.070	0.350	70.000	55.000	TUFF C 2Am, 3As
14.00	15.50	1.50	0.035	0.350	80.000	53.000	TUFF C 2Am, 3As
15.50	17.00	1.50	0.035	0.350	60.000	34.000	TUFF C 2Am, 3As
17.00	18.50	1.50	0.035	0.350	70.000	17.000	TUFF C 2Am, 3As
18.50	20.00	1.50	0.035	0.350	60.000	17.000	TUFF C 2Am, 3As
20.00	21.50	1.50	0.035	0.350	70.000	4.000	TUFF C 2Am, 3As
21.50	23.00	1.50	0.035	0.350	50.000	5.000	TUFF C 2Am, 3As
23.00	24.50	1.50	0.035	0.350	90.000	2.000	TUFF C 2Am, 3As
24.50	26.00	1.50	0.035	0.350	70.000	3.000	TUFF A 1Am
26.00	27.50	1.50	0.035	0.350	50.000	6.000	TUFF A 1Am
27.50	29.00	1.50	0.035	0.350	50.000	3.000	TUFF A/C 2Am
29.00	30.50	1.50	0.035	0.350	70.000	4.000	TUFF A/C 2Am
30.50	32.00	1.50	0.035	0.350	70.000	5.000	TUFF A/C
32.00	33.50	1.50	0.035	0.350	80.000	2.000	TUFF A/C
33.50	35.00	1.50	0.035	0.350	70.000	2.000	TUFF A/C
35.00	36.50	1.50	0.035	0.350	60.000	2.000	TUFF A/C
36.50	38.00	1.50	0.035	0.350	50.000	7.000	TUFF A/C
38.00	39.50	1.50	0.035	0.350	80.000	4.000	TUFF A/C
39.50	41.00	1.50	0.035	0.350	50.000	4.000	TUFF A/C
41.00	42.50	1.50	0.035	0.350	50.000	2.000	TUFF A/C
42.50	44.00	1.50	0.035	0.350	50.000	9.000	TUFF A/C
44.00	45.50	1.50	0.035	0.350	60.000	8.000	TUFF A/F 2Am
45.50	47.00	1.50	0.035	0.350	60.000	5.000	TUFF A/F 2Am
47.00	48.50	1.50	0.035	0.350	40.000	6.000	TUFF A/F 2Am
48.50	50.00	1.50	0.035	0.350	50.000	2.000	TUFF A/F 2Am
50.00	51.50	1.50	0.035	0.350	60.000	3.000	TUFF A/F 2Am
51.50	53.00	1.50	0.035	0.350	50.000	6.000	TUFF A/F 2Am
53.00	54.50	1.50	0.035	0.350	60.000	5.000	TUFF A/F 2Am
54.50	56.00	1.50	0.035	0.350	60.000	14.000	TUFF A/F 2Am, FAULT
56.00	57.50	1.50	0.035	0.350	70.000	5.000	TUFF A/F 2Am, FAULT
57.50	59.00	1.50	0.035	11.700	100.000	24.000	TUFF A/F 2Am, FAULT
59.00	60.50	1.50	0.035	1.000	70.000	19.000	TUFF A/F 2Am, FAULT
60.50	62.00	1.50	0.035	0.700	80.000	26.000	TUFF A/F 2Am
62.00	63.50	1.50	0.035	0.350	50.000	14.000	TUFF A
63.50	65.00	1.50	0.035	0.350	30.000	13.000	TUFF A
65.00	66.50	1.50	0.035	0.350	50.000	70.000	TUFF A
66.50	68.00	1.50	0.035	0.350	80.000	111.000	TUFF A
68.00	69.50	1.50	0.035	0.350	100.000	31.000	TUFF A
69.50	71.00	1.50	0.035	0.350	80.000	40.000	RHLT A 2Am
71.00	72.50	1.50	0.035	0.350	80.000	72.000	RHLT A 2Am
72.50	74.00	1.50	0.035	0.350	100.000	42.000	RHLT A 2Am
74.00	75.50	1.50	0.035	0.350	90.000	29.000	RHLT A 2Am
75.50	77.00	1.50	0.035	0.350	70.000	24.000	RHLT A 2Am
77.00	78.50	1.50	0.035	0.350	80.000	9.000	RHLT A 2Am

ASSAY LOG
PROPERTY: GRCK
HOLE No.: 75

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
78.50	80.00	1.50	0.035	0.350	70.000	39.000	RHLT A 2Am
80.00	81.50	1.50	0.070	0.350	80.000	28.000	RHLT A 2Am
81.50	83.00	1.50	0.035	0.700	60.000	14.000	RHLT A 2Am
83.00	84.50	1.50	0.035	1.000	40.000	31.000	RHLT A 2Am
84.50	86.00	1.50	0.070	0.350	70.000	230.000	RHLT A 2Am
86.00	87.50	1.50	0.070	0.700	80.000	181.000	RHLT A 2Am
87.50	89.00	1.50	0.140	0.350	160.000	366.000	RHLT A 2Am
89.00	90.50	1.50	0.035	0.700	50.000	42.000	RHLT A 2Am
90.50	92.00	1.50	0.035	0.350	60.000	57.000	RHLT A 2Am
92.00	93.50	1.50	0.100	0.350	90.000	249.000	RHLT A 2Am
93.50	95.00	1.50	0.035	0.350	60.000	6.000	RHLT A 2Am
95.00	96.50	1.50	0.035	0.350	50.000	8.000	RHLT A 2Am
96.50	98.00	1.50	0.035	0.350	90.000	28.000	RHLT A 2Am
98.00	99.50	1.50	0.035	0.350	70.000	12.000	RHLT A 2Am
99.50	101.00	1.50	0.035	0.350	90.000	18.000	RHLT A 2Am
101.00	102.50	1.50	0.035	0.350	140.000	67.000	RHLT A 2Am
102.50	104.00	1.50	0.035	0.350	80.000	88.000	RHLT A 2Am
104.00	105.50	1.50	0.035	0.350	150.000	72.000	RHLT A 1Am
105.50	107.00	1.50	0.035	0.350	150.000	48.000	RHLT A 1Am
107.00	108.50	1.50	0.035	0.350	80.000	73.000	RHLT A 1Am
108.50	110.00	1.50	0.100	0.350	70.000	175.000	RHLT A 1Am
110.00	111.50	1.50	0.140	0.350	80.000	718.000	RHLT A 1Am
111.50	113.00	1.50	0.140	0.350	60.000	499.000	RHLT A
113.00	114.50	1.50	0.140	0.700	40.000	532.000	RHLT A
114.50	116.00	1.50	0.035	0.350	50.000	72.000	RHLT A
116.00	117.50	1.50	0.035	0.350	40.000	6.000	RHLT A
117.50	119.00	1.50	0.035	0.350	60.000	12.000	RHLT A
119.00	120.50	1.50	0.035	0.350	90.000	39.000	RHLT A
120.50	122.00	1.50	0.070	0.350	150.000	75.000	RHLT A
122.00	123.50	1.50	0.035	0.700	70.000	36.000	RHLT A/F 1Aa
123.50	125.00	1.50	0.035	0.350	100.000	65.000	RHLT A/F 1Aa
125.00	126.50	1.50	0.035	0.350	40.000	69.000	RHLT A/F 1Aa
126.50	128.00	1.50	0.035	0.350	50.000	9.000	RHLT A 3Aas
128.00	129.50	1.50	0.035	0.350	40.000	8.000	RHLT A 3Aas
129.50	131.00	1.50	0.035	0.350	40.000	6.000	RHLT A 3Aas
131.00	132.50	1.50	0.035	0.350	40.000	24.000	RHLT A 3Aas
132.50	134.00	1.50	0.035	0.350	40.000	12.000	RHLT A 3Aas
134.00	135.50	1.50	0.035	0.350	40.000	8.000	RHLT A 3Aas
135.50	137.00	1.50	0.035	0.350	40.000	56.000	RHLT A 3Aas
137.00	138.50	1.50	0.035	0.350	30.000	20.000	RHLT A 3Aas
138.50	140.00	1.50	0.035	0.350	50.000	31.000	RHLT A 3Aas
140.00	141.50	1.50	0.035	0.350	50.000	49.000	RHLT A 3Aas
141.50	143.00	1.50	0.035	0.350	50.000	3.000	RHLT A 3Aas
143.00	144.50	1.50	0.035	0.350	40.000	7.000	RHLT A 3Aas
144.50	146.00	1.50	0.035	0.700	40.000	6.000	RHLT A 3Aas
146.00	147.50	1.50	0.035	0.350	50.000	4.000	RHLT A 3Aas
147.50	149.00	1.50	0.035	0.350	50.000	18.000	RHLT A 3Aas
149.00	150.50	1.50	0.035	0.350	60.000	8.000	RHLT A 3Aas
150.50	152.00	1.50	0.035	0.350	50.000	10.000	RHLT A 3Aas
152.00	153.50	1.50	0.035	0.700	40.000	8.000	RHLT A 3Aas

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
153.50	155.00	1.50	0.035	0.700	30.000	21.000	RHLT A 3Aas
155.00	156.50	1.50	0.070	0.350	40.000	81.000	RHLT A/F 2Aa, 3As
156.50	158.00	1.50	0.480	0.700	150.000	729.000	RHLT A/F 2Aa, 3As
158.00	159.50	1.50	0.100	0.700	440.000	174.000	RHLT A/F 2Aa, 3As,2Scb-qz
159.50	161.00	1.50	0.070	0.350	80.000	75.000	RHLT A/F 2Aa, 3As,2Scb-qz
161.00	162.50	1.50	0.035	0.350	60.000	17.000	RHLT A/F 2Aa, 3As,2Scb-qz
162.50	164.00	1.50	0.035	0.350	70.000	49.000	RHLT A 3Aa, 3Vqz
164.00	165.50	1.50	0.035	0.350	60.000	97.000	RHLT A 3Aa, 3Vqz
165.50	167.00	1.50	0.035	0.350	50.000	24.000	RHLT A 3Aa, 3Vqz
167.00	168.50	1.50	0.035	0.700	40.000	24.000	RHLT A 3Aa, 3Vqz
168.50	170.00	1.50	0.070	0.700	50.000	272.000	RHLT A 3Aa, 3Vqz
170.00	171.50	1.50	0.070	0.700	50.000	308.000	RHLT A 3Aa, 3Vqz
171.50	173.00	1.50	0.035	0.700	40.000	30.000	RHLT A 3Aa, 3Vqz
173.00	174.50	1.50	0.035	0.350	40.000	19.000	RHLT A 3Aa, 3Vqz
174.50	176.00	1.50	0.035	0.350	40.000	9.000	RHLT A 3Aa, 3Vqz
176.00	177.50	1.50	0.170	0.700	30.000	355.000	RHLT A 3Aa, 3Vqz
177.50	179.00	1.50	0.070	0.350	30.000	127.000	RHLT A 3Aa, 3Vqz
179.00	180.50	1.50	0.070	0.350	40.000	60.000	RHLT A 3Aa, 3Vqz
180.50	182.00	1.50	0.035	0.700	40.000	61.000	RHLT A 3Aa, 3Vqz
182.00	183.50	1.50	0.100	0.700	40.000	246.000	RHLT A/F 2Aas
183.50	185.00	1.50	0.170	0.350	50.000	756.000	RHLT A/F 2Aas
185.00	186.50	1.50	0.070	0.350	150.000	166.000	RHLT A/F 2Aas
186.50	188.00	1.50	0.035	0.350	230.000	80.000	RHLT A/F 2Aas
188.00	189.50	1.50	0.035	0.350	30.000	103.000	RHLT A 2Am
189.50	191.00	1.50	0.035	0.350	40.000	61.000	RHLT A 2Am
191.00	192.50	1.50	0.035	0.350	40.000	42.000	RHLT A 2Am
192.50	194.00	1.50	0.035	0.350	40.000	260.000	RHLT A 2Am
194.00	195.50	1.50	0.035	0.350	30.000	25.000	RHLT A 2Am
195.50	197.00	1.50	0.035	0.350	30.000	12.000	RHLT A 2Am
197.00	198.50	1.50	0.035	0.350	40.000	24.000	RHLT A 2Am
198.50	200.00	1.50	0.035	0.350	50.000	6.000	RHLT A 2Am
200.00	201.50	1.50	0.035	0.350	30.000	13.000	RHLT A 2Am
201.50	203.00	1.50	0.035	0.350	30.000	35.000	RHLT A 2Am
203.00	204.50	1.50	0.035	0.350	60.000	5.000	RHLT A 2Am
204.50	206.00	1.50	0.035	0.350	40.000	49.000	RHLT A 2Am
206.00	207.50	1.50	0.035	0.350	80.000	18.000	RHLT A 2Am
207.50	209.00	1.50	0.035	0.350	50.000	3.000	RHLT A 2Am
209.00	210.50	1.50	0.035	0.350	40.000	16.000	RHLT A 2Am
210.50	212.00	1.50	0.035	0.350	30.000	15.000	RHLT A 2Am
212.00	213.50	1.50	0.035	0.350	30.000	7.000	RHLT A 2Am
213.50	215.00	1.50	0.035	0.350	30.000	4.000	RHLT A 2Am
215.00	216.50	1.50	0.035	0.350	40.000	14.000	RHLT A 2Am
216.50	218.00	1.50	0.100	0.350	50.000	7.000	RHLT A 2Am
218.00	219.50	1.50	0.035	0.350	30.000	11.000	RHLT A 2Am
219.50	221.00	1.50	0.035	0.350	40.000	8.000	RHLT A 2Am
221.00	222.50	1.50	0.035	0.350	30.000	5.000	RHLT A 2Am
222.50	224.00	1.50	0.035	0.350	30.000	9.000	RHLT A
224.00	225.50	1.50	0.035	0.700	80.000	23.000	RHLT A
225.50	227.00	1.50	0.035	0.350	40.000	13.000	RHLT A
227.00	228.50	1.50	0.035	0.350	50.000	32.000	RHLT A

ASSAY LOG
PROPERTY: GRCK
HOLE No.: 75

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
228.50	230.00	1.50	0.035	0.350	40.000	20.000	RHLT A
230.00	231.50	1.50	0.035	0.350	50.000	14.000	RHLT A
231.50	233.00	1.50	0.035	0.350	60.000	15.000	RHLT A
233.00	234.50	1.50	0.035	0.350	60.000	89.000	RHLT A
234.50	236.00	1.50	0.070	0.700	50.000	74.000	RHLT A
236.00	237.50	1.50	0.035	0.350	60.000	41.000	RHLT A
237.50	239.00	1.50	0.035	0.350	60.000	45.000	RHLT A
239.00	240.50	1.50	0.035	0.350	70.000	42.000	RHLT A
240.50	242.00	1.50	0.035	0.700	50.000	19.000	RHLT A
242.00	243.50	1.50	0.035	0.350	50.000	19.000	RHLT A
243.50	245.00	1.50	0.035	0.350	60.000	81.000	RHLT A
245.00	246.50	1.50	0.035	0.350	40.000	51.000	RHLT A
246.50	248.00	1.50	0.035	0.350	60.000	12.000	RHLT A
248.00	249.50	1.50	0.035	0.350	70.000	7.000	RHLT A
249.50	251.00	1.50	0.035	0.350	70.000	6.000	RHLT A
251.00	252.50	1.50	0.035	0.350	40.000	34.000	RHLT A
252.50	254.00	1.50	0.035	0.350	40.000	7.000	RHLT A
254.00	255.50	1.50	0.035	0.350	50.000	8.000	RHLT A
255.50	257.00	1.50	0.035	0.350	40.000	5.000	RHLT A
257.00	258.50	1.50	0.035	0.350	40.000	5.000	RHLT A
258.50	260.00	1.50	0.035	0.350	50.000	8.000	RHLT A
260.00	261.50	1.50	0.035	0.350	70.000	5.000	RHLT A
261.50	263.00	1.50	0.035	0.350	60.000	7.000	RHLT A
263.00	264.50	1.50	0.035	0.350	50.000	28.000	RHLT A
264.50	266.00	1.50	0.035	0.350	50.000	12.000	RHLT A
266.00	267.50	1.50	0.035	0.350	60.000	6.000	RHLT A
267.50	269.00	1.50	0.035	0.350	50.000	5.000	RHLT A
269.00	270.50	1.50	0.035	0.350	40.000	3.000	RHLT A
270.50	272.00	1.50	0.035	0.350	30.000	12.000	RHLT A
272.00	273.50	1.50	0.035	0.350	40.000	19.000	RHLT A
273.50	275.00	1.50	0.035	0.350	50.000	6.000	RHLT A
275.00	276.50	1.50	0.035	0.350	50.000	26.000	RHLT A
276.50	278.00	1.50	0.035	0.350	50.000	9.000	RHLT A
278.00	279.50	1.50	0.035	0.350	50.000	4.000	RHLT A
279.50	281.00	1.50	0.035	0.350	60.000	4.000	RHLT A
281.00	282.50	1.50	0.035	0.350	50.000	4.000	RHLT A
282.50	284.00	1.50	0.035	0.350	50.000	4.000	RHLT A 1Am
284.00	285.50	1.50	0.035	0.350	60.000	4.000	RHLT A
285.50	287.00	1.50	0.035	0.350	60.000	2.000	RHLT A
287.00	288.50	1.50	0.035	0.350	50.000	7.000	RHLT A
288.50	290.00	1.50	0.035	0.350	40.000	40.000	RHLT A
290.00	291.50	1.50	0.035	0.350	40.000	5.000	RHLT A
291.50	293.00	1.50	0.035	0.350	40.000	2.000	RHLT A
293.00	294.50	1.50	0.035	0.350	40.000	2.000	RHLT A
294.50	296.00	1.50	0.035	0.350	50.000	4.000	RHLT A
296.00	297.50	1.50	0.035	0.350	50.000	2.000	RHLT A
297.50	299.00	1.50	0.035	0.350	50.000	2.000	RHLT A
299.00	300.50	1.50	0.035	0.350	40.000	2.000	RHLT A
300.50	302.00	1.50	0.035	0.700	30.000	6.000	RHLT A
302.00	303.50	1.50	0.035	0.700	50.000	10.000	RHLT A

ASSAY LOG
PROPERTY: GRCK
HOLE No.: 75

FROM	TO	WIDTH	Au gmt	Ag gmt	Hg ppb	As ppm	ROCK TYPE
303.50	305.00	1.50	0.100	0.350	40.000	112.000	RHLT A
305.00	306.50	1.50	0.035	0.350	30.000	17.000	RHLT A
306.50	308.00	1.50	0.035	0.350	40.000	22.000	RHLT A
308.00	309.50	1.50	0.100	0.350	30.000	117.000	RHLT A
309.50	311.00	1.50	0.035	0.350	40.000	31.000	RHLT A
311.00	312.50	1.50	0.035	0.700	40.000	44.000	RHLT A
312.50	314.00	1.50	0.035	0.350	50.000	8.000	RHLT A
314.00	315.50	1.50	0.035	0.350	50.000	5.000	RHLT A 2Am
315.50	317.00	1.50	0.035	0.350	50.000	12.000	RHLT A 2Am
317.00	318.50	1.50	0.035	0.350	50.000	8.000	RHLT A 2Am
318.50	320.00	1.50	0.035	0.350	40.000	6.000	RHLT A 2Am
320.00	321.50	1.50	0.035	0.350	40.000	5.000	RHLT A 2Am
321.50	323.00	1.50	0.035	0.350	40.000	8.000	RHLT A 2Am
323.00	324.50	1.50	0.035	0.350	40.000	6.000	RHLT A 2Am
324.50	326.00	1.50	0.035	0.350	50.000	15.000	RHLT A 2Am
326.00	327.50	1.50	0.035	0.700	60.000	12.000	RHLT A 2Am
327.50	329.00	1.50	0.035	0.700	60.000	9.000	RHLT A 2Am
329.00	330.50	1.50	0.035	0.350	60.000	4.000	RHLT A 2Am
330.50	331.01	0.51	0.035	0.350	60.000	6.000	-------

APPENDIX III

SOIL GEOCHEM

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: OCT 5 1988 DATE REPORT MAILED: Oct 20/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION PROJECT 331/8810-018 File # 88-5030 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L11000E 10400N	1	21	12	101	.4	16	5	282	1.43	2	7	ND	3	31	1	2	1	19	.74	.053	13	14	.31	175	.01	3	.62	.03	.07	1	3	30
L11000E 10375N	2	26	15	102	.3	29	7	501	2.25	7	5	ND	5	58	1	2	2	25	1.86	.066	25	20	.66	273	.01	7	.81	.01	.13	1	6	80
L11000E 10350N	2	15	16	114	.1	23	6	184	2.43	9	5	ND	5	16	1	2	2	31	.22	.029	15	19	.38	267	.03	2	.95	.01	.03	1	1	5
L11000E 10325N	2	31	19	155	.4	32	9	422	2.22	11	5	ND	2	95	1	2	2	30	3.08	.072	14	19	.89	452	.02	2	.93	.03	.15	1	2	30
L11000E 10300N	2	21	19	137	.1	25	9	444	2.56	11	5	ND	6	25	1	2	2	35	.41	.054	18	21	.44	362	.02	6	1.11	.02	.08	1	1	30
L11000E 10275N	2	21	21	130	.2	24	9	466	2.45	11	5	ND	5	23	1	2	2	33	.34	.052	17	20	.40	347	.02	2	1.06	.02	.08	1	1	40
L11000E 10250N	2	18	12	122	.2	22	8	381	2.17	8	5	ND	5	20	1	2	2	31	.30	.043	14	16	.34	302	.02	3	.96	.02	.06	1	1	20
L11000E 10225N	2	19	17	138	.2	23	9	696	2.79	7	5	ND	5	21	2	2	2	44	.35	.030	14	24	.48	404	.03	2	1.45	.01	.08	1	1	20
L11000E 10200N	2	20	18	131	.2	24	10	331	2.86	9	5	ND	5	16	1	2	2	43	.25	.037	12	32	.77	279	.06	3	1.57	.02	.10	2	1	10
L11000E 10175N	2	23	28	139	.1	28	12	581	3.36	14	5	ND	5	27	1	2	2	54	.36	.043	12	33	.90	393	.06	4	1.94	.03	.11	4	1	10
L11000E 10150N	1	24	19	115	.1	22	9	523	2.60	9	5	ND	3	28	1	2	2	40	.38	.041	13	23	.62	300	.04	3	1.28	.03	.10	1	1	30
L11000E 10125N	1	19	19	171	.2	27	9	288	2.35	7	5	ND	5	25	1	2	2	48	.38	.029	10	30	.81	256	.04	2	1.82	.02	.07	1	14	20
L11000E 10100N	1	18	15	89	.2	24	9	317	2.50	11	5	ND	4	23	1	2	2	42	.34	.033	9	24	.64	268	.04	2	1.55	.03	.06	2	1	20
L11000E 10075N	2	13	14	159	.1	21	7	255	2.50	10	5	ND	5	15	1	2	2	34	.21	.020	15	20	.41	263	.02	3	1.07	.01	.08	1	2	10
L11000E 10050N	1	19	13	123	.2	13	7	893	1.77	3	5	ND	3	18	1	2	2	31	.25	.022	9	14	.26	334	.02	4	1.00	.03	.05	1	1	10
L11000E 10025N	2	15	21	152	.1	23	10	422	3.19	8	5	ND	5	19	2	2	2	49	.31	.032	13	27	.62	352	.03	2	1.68	.01	.09	2	1	10
L11200E 10400N	1	2	3	18	.3	2	2	31	.42	2	5	ND	1	29	1	2	2	10	.52	.040	2	2	.13	33	.02	2	.20	.05	.01	1	1	5
L11200E 10375N	2	13	18	73	.2	22	7	295	2.77	13	5	ND	10	17	1	2	2	29	.27	.022	27	21	.34	389	.01	2	.99	.01	.06	1	1	30
L11200E 10350N	1	10	11	57	.4	12	4	308	1.73	5	7	ND	4	17	1	2	2	22	.28	.022	12	11	.20	224	.01	2	.68	.02	.05	1	1	20
L11200E 10325N	1	16	7	52	.2	10	4	485	1.43	3	5	ND	2	21	1	2	2	21	.38	.028	9	11	.16	250	.02	2	.63	.02	.04	1	1	20
L11200E 10300N	1	15	10	44	.2	10	4	454	1.26	4	5	ND	2	20	1	2	2	20	.33	.025	8	8	.14	213	.02	2	.51	.02	.03	1	1	20
L11200E 10275N	1	7	7	42	.2	7	3	129	1.52	3	5	ND	3	16	1	2	2	19	.24	.024	8	9	.14	130	.01	2	.57	.02	.04	1	1	5
L11200E 10250N	1	5	9	45	.2	5	3	91	1.61	4	5	ND	3	14	1	2	2	21	.21	.021	8	9	.14	111	.01	2	.60	.02	.04	1	1	5
L11200E 10225N	2	14	20	73	.2	16	6	293	2.60	8	5	ND	7	14	1	2	2	23	.18	.039	14	16	.20	183	.01	2	.72	.01	.07	1	3	20
L11200E 10200N	1	13	4	28	.3	4	3	145	.65	2	5	ND	1	74	1	2	2	12	1.54	.043	4	4	.51	122	.01	6	.30	.05	.03	1	1	20
L11200E 10175N	1	13	16	72	.1	15	5	380	2.13	4	5	ND	8	23	1	2	2	19	.50	.034	35	12	.24	191	.01	2	.61	.01	.07	1	2	50
L11200E 10150N	1	13	18	59	.1	16	6	244	2.48	4	5	ND	11	8	1	2	2	24	.12	.012	41	17	.23	120	.01	2	.85	.01	.06	1	1	40
L11200E 10125N	1	25	24	103	.1	34	8	443	2.73	11	5	ND	13	49	1	2	2	24	2.28	.048	68	23	.46	282	.01	5	.88	.01	.16	2	9	110
L11200E 10100N	1	17	13	47	.2	10	5	451	1.65	4	5	ND	5	19	1	2	2	19	.35	.026	18	10	.19	147	.01	4	.64	.02	.08	2	1	40
L11200E 10075N	2	20	19	80	.1	16	6	383	2.46	9	5	ND	8	23	1	2	2	20	.39	.032	46	14	.29	134	.01	2	.69	.01	.08	1	3	30
L11200E 10050N	1	20	22	92	.1	23	7	429	2.54	7	5	ND	12	17	1	2	2	21	.28	.026	51	16	.30	151	.01	2	.67	.01	.07	1	5	50
L11200E 10025N	1	15	17	94	.1	20	6	463	2.16	8	5	ND	9	68	1	2	2	19	2.28	.061	37	15	.62	240	.01	6	.54	.02	.10	1	6	50
L11200E 9000N	3	22	19	223	.2	35	9	330	2.55	13	5	ND	7	42	1	2	2	36	.73	.093	20	20	.58	611	.02	5	.87	.01	.07	1	3	50
L11200E 8975N	2	12	63	103	.1	9	4	405	2.20	2	5	ND	24	35	1	2	2	9	.67	.026	74	5	.24	229	.01	3	.41	.01	.10	1	12	40
L11300E 10400N	1	4	2	18	.2	1	2	80	.56	2	5	ND	2	22	1	2	2	9	.39	.040	6	2	.09	76	.02	2	.18	.03	.02	1	1	20
L11300E 10375N	1	3	2	9	.2	2	2	81	.42	2	5	ND	1	23	1	2	2	6	.37	.038	3	3	.09	76	.02	21	.18	.04	.01	1	1	5
L11300E 10350N	1	2	2	14	.2	1	1	32	.41	2	5	ND	1	18	1	3	2	11	.26	.025	2	2	.05	47	.02	2	.15	.04	.02	1	1	10
STD C/AU-S	18	59	43	132	7.0	69	30	1059	4.24	44	18	8	39	48	18	17	19	53	.49	.091	40	58	.95	171	.06	33	1.98	.06	.13	13	54	1300

4 Oct Wheee

Gr Cr (3D)

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: OCT 5 1988 DATE REPORT MAILED: Oct 20/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION PROJECT 331/8810-018 File # 88-5030 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L11000E 10400N	1	21	12	101	.4	16	5	282	1.43	2	7	ND	3	31	1	2	2	19	.74	.053	13	14	.31	175	.01	3	.62	.03	.07	1	3	30
L11000E 10375N	2	26	16	102	.3	29	7	501	2.25	3	5	ND	5	58	1	2	2	25	1.96	.066	25	20	.66	273	.01	7	.81	.01	.13	1	6	80
L11000E 10350N	2	15	16	114	.1	23	6	184	2.43	9	5	ND	5	16	1	2	2	31	.22	.029	15	19	.38	267	.02	2	.95	.01	.08	1	1	5
L11000E 10325N	2	31	19	155	.4	32	9	423	2.32	11	5	ND	2	95	1	2	2	30	3.08	.072	14	19	.89	452	.02	2	.93	.03	.15	1	2	30
L11000E 10300N	2	21	15	137	.1	25	9	444	2.56	11	5	ND	6	25	1	2	2	35	.41	.054	18	21	.44	362	.02	6	1.11	.02	.08	1	1	30
L11000E 10275N	2	21	21	139	.2	24	9	466	2.45	11	5	ND	5	23	1	2	2	33	.34	.052	17	20	.40	347	.02	2	1.06	.02	.08	1	1	40
L11000E 10250N	2	18	12	122	.2	22	8	361	2.17	8	5	ND	5	20	1	2	2	31	.30	.043	14	16	.34	302	.02	3	.96	.02	.06	1	1	20
L11000E 10225N	2	19	17	138	.2	23	9	696	2.79	7	5	ND	5	21	2	2	2	44	.35	.030	14	24	.48	404	.03	2	1.45	.01	.08	1	1	20
L11000E 10200N	2	20	18	131	.2	24	10	331	2.86	9	5	ND	5	18	1	2	2	43	.25	.037	12	32	.77	279	.06	3	1.57	.02	.10	2	1	10
L11000E 10175N	2	23	26	139	.1	28	12	581	3.26	14	5	ND	5	27	1	2	2	54	.36	.043	12	33	.90	393	.06	4	1.94	.03	.11	4	1	10
L11000E 10150N	1	24	19	115	.1	22	9	522	2.60	9	5	ND	3	28	1	2	2	40	.38	.041	13	23	.62	300	.04	3	1.28	.03	.10	1	1	30
L11000E 10125N	1	19	19	171	.2	27	9	288	2.35	7	5	ND	5	25	1	2	2	48	.38	.029	10	30	.81	256	.04	2	1.82	.02	.07	1	14	20
L11000E 10100N	1	18	15	89	.2	24	9	317	2.50	11	5	ND	4	23	1	2	2	42	.34	.033	9	24	.64	268	.04	2	1.55	.03	.06	2	1	20
L11000E 10075N	2	13	14	159	.1	21	7	255	2.50	10	5	ND	5	15	1	2	2	34	.21	.020	15	20	.41	263	.02	3	1.07	.01	.08	1	2	10
L11000E 10050N	1	19	13	123	.2	13	7	893	1.77	3	5	ND	3	18	1	2	2	31	.25	.022	9	14	.26	334	.02	4	1.00	.03	.05	1	1	10
L11000E 10025N	2	15	21	152	.1	23	10	422	3.19	8	5	ND	5	19	2	2	2	48	.31	.032	13	27	.62	352	.03	2	1.68	.01	.09	2	1	10
L11200E 10400N	1	2	3	18	.3	2	2	31	.42	2	5	ND	1	29	1	2	2	10	.52	.040	2	2	.13	33	.02	2	.20	.05	.01	1	1	5
L11200E 10375N	2	13	18	73	.2	22	7	295	2.77	13	5	ND	10	17	1	2	2	29	.27	.022	27	21	.34	389	.01	2	.99	.01	.06	1	1	30
L11200E 10350N	1	10	11	57	.4	12	4	309	1.73	5	7	ND	4	17	1	2	2	22	.28	.022	12	11	.20	224	.01	2	.68	.02	.05	1	1	20
L11200E 10325N	1	16	7	52	.2	10	4	485	1.43	2	5	ND	2	21	1	2	2	21	.38	.029	9	11	.16	250	.02	2	.63	.02	.04	1	1	20
L11200E 10300N	1	15	10	44	.2	10	4	454	1.26	4	5	ND	2	20	1	2	2	20	.33	.025	8	8	.14	213	.02	2	.51	.02	.03	1	1	20
L11200E 10275N	1	7	7	42	.2	7	3	129	1.52	3	5	ND	3	16	1	2	2	19	.24	.024	8	9	.14	130	.01	2	.57	.02	.04	1	1	5
L11200E 10250N	1	5	9	45	.2	5	3	91	1.61	4	5	ND	3	14	1	2	2	21	.21	.021	8	9	.14	111	.01	2	.60	.02	.04	1	1	5
L11200E 10225N	2	14	20	73	.2	16	6	293	2.60	8	5	ND	7	14	1	2	2	23	.18	.039	14	16	.20	183	.01	2	.72	.01	.07	1	3	20
L11200E 10200N	1	13	4	28	.3	4	2	145	.65	2	5	ND	1	74	1	2	2	12	1.54	.043	4	4	.51	122	.01	6	.30	.05	.03	1	1	20
L11200E 10175N	1	13	16	72	.1	15	5	380	2.13	4	5	ND	8	23	1	2	2	19	.50	.034	35	12	.24	191	.01	2	.61	.01	.07	1	2	50
L11200E 10150N	1	13	18	59	.1	15	6	244	2.48	4	5	ND	11	8	1	2	2	24	.12	.012	41	17	.23	120	.01	2	.85	.01	.06	1	1	40
L11200E 10125N	1	25	24	103	.1	34	8	443	2.73	11	5	ND	13	49	1	2	2	24	2.28	.048	68	23	.46	282	.01	5	.88	.01	.16	2	9	110
L11200E 10100N	1	17	13	47	.2	10	5	451	1.65	4	5	ND	5	19	1	2	2	19	.35	.026	18	10	.19	147	.01	4	.64	.02	.08	2	1	40
L11200E 10075N	2	20	19	80	.1	16	6	383	2.46	9	5	ND	8	23	1	2	2	20	.39	.032	46	14	.29	134	.01	2	.69	.01	.08	1	3	30
L11200E 10050N	1	20	22	92	.1	23	7	429	2.54	7	5	ND	12	17	1	2	2	21	.28	.026	51	16	.30	151	.01	2	.67	.01	.07	1	5	50
L11200E 10025N	1	15	17	94	.1	20	6	463	2.18	8	5	ND	9	68	1	2	2	19	2.28	.061	37	15	.62	240	.01	6	.54	.02	.10	1	6	50
L11200E 9000N	3	22	19	223	.2	35	9	330	2.55	13	5	ND	7	42	1	2	2	36	.73	.093	20	20	.58	611	.02	5	.87	.01	.07	1	3	50
L11200E 8975N	2	12	63	103	.1	9	4	405	2.20	2	5	ND	24	35	1	2	2	9	.67	.026	74	5	.24	229	.01	3	.41	.01	.10	1	12	40
L11300E 10400N	1	4	2	18	.2	1	2	80	.56	2	5	ND	2	22	1	2	2	9	.39	.040	6	2	.09	76	.02	2	.18	.03	.02	1	1	20
L11300E 10375N	1	3	2	6	.2	2	2	81	.42	2	5	ND	1	23	1	2	2	6	.37	.038	3	3	.09	76	.02	21	.18	.04	.01	1	[redacted]	5
L11300E 10350N	1	2	2	14	.2	1	1	32	.41	2	5	ND	1	18	[redacted]	3	2	11	.26	.025	2	2	.05	47	.02	2	.15	.04	.02	1		10
STD C/AU-S	18	59	43	132	7.0	68	30	1059	4.24	44	18	8	36	48	[redacted]		19	58	.49	.061	40	58	.95	171	.06	33	1.98	.06	.13	13	54	

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L11300E 10325N	1	16	14	46	.3	8	4	240	1.81	6	5	ND	2	25	1	2	2	24	.53	.027	11	10	.17	266	.01	2	.73	.01	.05	1	1	20
L11300E 10300N	1	9	9	60	.2	6	3	356	1.82	5	6	ND	1	13	1	2	2	27	.20	.021	10	8	.12	155	.02	2	.53	.01	.06	1	1	10
L11300E 10275N	1	15	13	75	.1	10	5	393	1.73	7	5	ND	1	25	1	2	2	29	.45	.028	13	13	.25	340	.02	2	.85	.02	.06	1	1	10
L11300E 10250N	1	8	10	77	.1	9	5	282	1.78	5	5	ND	2	15	1	2	2	27	.24	.026	14	14	.22	297	.02	2	.87	.02	.07	1	1	10
L11300E 10225N	1	8	8	36	.1	6	3	93	1.68	5	5	ND	1	13	1	2	2	29	.17	.017	9	9	.13	170	.02	2	.60	.02	.04	2	1	10
L11300E 10200N	1	23	14	70	.1	15	7	916	2.08	5	5	ND	1	30	1	2	2	26	.51	.041	24	12	.22	343	.01	2	.86	.02	.08	1	1	20
L11300E 10175N	1	14	8	52	.1	14	6	269	1.73	6	5	ND	2	28	1	2	2	22	.42	.025	35	18	.26	192	.01	4	.66	.03	.05	1	1	30
L11300E 10150N	1	13	14	52	.1	10	5	140	2.36	3	5	ND	4	11	1	2	2	24	.21	.015	19	13	.22	152	.01	2	.86	.01	.05	1	1	10
L11300E 10125N	1	10	5	27	.2	2	3	227	.87	2	5	ND	1	18	1	2	2	15	.27	.013	4	4	.07	160	.01	2	.33	.02	.03	1	1	5
L11300E 10100N	1	24	3	38	.1	9	4	530	.60	2	5	ND	1	106	1	2	2	12	2.15	.063	6	4	.65	131	.01	11	.27	.04	.02	1	2	60
L11300E 10075N	1	4	4	16	.3	1	1	56	.44	2	5	ND	1	21	1	2	2	11	.32	.036	3	2	.07	42	.02	2	.16	.04	.03	1	1	5
L11300E 10050N	1	10	6	34	.1	5	3	320	.76	2	5	ND	1	17	1	2	2	13	.28	.033	7	5	.08	139	.01	2	.33	.03	.04	1	1	30
L11300E 10025N	1	9	14	96	.1	13	7	494	2.25	7	5	ND	3	17	1	2	2	30	.28	.019	13	15	.23	295	.02	2	.93	.01	.08	1	1	10
L11300E 9250N	1	1	2	12	.1	1	1	30	.34	2	5	ND	1	16	1	2	2	9	.25	.042	2	1	.06	40	.02	2	.14	.05	.03	1	1	10
L11300E 9225N	1	1	2	11	.1	1	2	27	.42	2	5	ND	1	17	1	2	2	12	.27	.047	2	1	.07	49	.02	2	.16	.05	.02	1	1	5
L11300E 9200N	2	24	19	84	.1	23	8	245	2.37	10	5	ND	4	25	1	2	2	37	.34	.025	27	19	.34	450	.01	3	1.09	.02	.09	1	1	40
L11300E 9175N	2	12	20	85	.1	10	6	327	2.16	9	5	ND	1	17	1	3	2	26	.28	.024	15	13	.22	263	.01	3	.81	.01	.06	1	1	10
L11300E 9150N	2	32	25	108	.1	29	6	369	2.73	14	5	ND	6	28	1	2	2	30	.59	.027	108	18	.40	270	.01	2	1.02	.01	.14	1	1	150
L11300E 9125N	2	27	16	181	.1	38	9	313	2.42	13	5	ND	3	32	1	2	2	39	.51	.062	20	19	.51	484	.01	2	.91	.01	.06	1	9	50
L11400E 10400N	1	18	19	81	.1	18	9	507	2.79	12	5	ND	3	21	1	2	2	35	.14	.045	20	18	.30	773	.01	2	1.00	.02	.05	1	1	40
L11400E 10375N	2	42	30	110	.7	38	17	1368	4.71	24	5	ND	8	58	1	2	3	52	.27	.062	28	30	.49	873	.01	4	1.83	.02	.12	2	1	230
L11400E 10350N	1	36	16	123	.3	33	8	371	2.08	8	5	ND	1	51	1	2	3	30	1.39	.044	17	18	.39	412	.02	2	.99	.02	.06	1	1	50
L11400E 10325N	2	27	14	98	.1	27	7	299	3.01	10	5	ND	3	31	1	2	2	39	.61	.034	34	25	.44	510	.01	2	1.36	.01	.08	1	1	70
L11400E 10300N	1	13	6	50	.3	11	5	137	1.64	4	5	ND	2	17	1	2	2	23	.26	.028	12	13	.26	234	.02	4	.74	.02	.05	1	1	30
L11400E 10275N	1	14	8	69	.1	19	7	304	2.55	8	5	ND	4	17	1	2	2	30	.25	.021	23	21	.38	372	.01	2	1.09	.01	.07	1	1	30
L11400E 10250N	2	16	20	94	.1	23	8	193	3.03	12	5	ND	5	13	1	2	2	34	.18	.024	21	23	.44	234	.01	2	1.26	.01	.08	1	1	20
L11400E 10225N	1	13	14	71	.1	10	5	152	2.54	17	5	ND	2	16	1	2	2	26	.32	.021	12	15	.23	203	.01	2	.85	.01	.06	1	1	30
L11400E 10200N	2	12	23	81	.1	17	7	184	2.96	15	5	ND	4	17	1	2	2	32	.24	.025	18	19	.40	300	.01	2	1.24	.01	.07	2	1	20
L11400E 10175N	1	10	18	62	.1	15	6	200	2.84	10	5	ND	4	14	1	2	2	28	.20	.016	18	18	.31	241	.01	2	1.15	.01	.05	1	1	20
L11400E 10150N	1	12	14	62	.1	15	5	146	2.38	9	5	ND	4	18	1	2	2	32	.26	.016	18	19	.40	264	.01	3	1.06	.01	.07	1	1	20
L11400E 10125N	1	10	13	64	.1	13	5	183	2.40	7	5	ND	3	13	1	2	2	24	.22	.023	20	16	.24	190	.01	2	.86	.01	.07	1	1	20
L11400E 10100N	2	12	15	68	.1	19	8	277	2.66	9	5	ND	8	16	1	2	2	26	.20	.010	28	19	.34	217	.02	4	.93	.01	.08	1	1	40
L11400E 10075N	2	13	19	69	.1	14	6	234	2.88	10	5	ND	6	10	1	2	3	22	.16	.010	22	16	.22	139	.01	2	.79	.01	.06	1	1	30
L11400E 10025N	1	14	6	53	.2	10	3	311	1.28	8	5	ND	1	86	1	2	2	20	2.09	.052	6	13	.45	195	.02	6	.57	.03	.03	1	1	40
L11400E 10000N	1	13	12	130	.1	18	8	458	2.38	13	5	ND	3	15	1	2	2	35	.24	.041	26	22	.35	353	.01	2	1.28	.01	.08	1	1	20
L11400E 9175N	2	18	15	193	.1	23	8	281	2.74	12	5	ND	1	21	2	2	2	57	.42	.023	11	27	.66	297	.03	4	1.60	.02	.07	2	1	5
STD C/AU-S	18	62	42	132	7.5	73	31	1027	4.10	43	16	7	38	49	18	17	19	60	.51	.093	41	59	.92	188	.07	34	1.95	.06	.13	12	53	1300

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L11400E 9150N	2	32	22	230	.1	44	13	464	3.36	22	5	ND	6	26	1	2	2	71	.56	.028	16	37	1.05	437	.04	4	1.91	.02	.07	3	12	10
L11400E 9125N	2	27	22	176	.2	36	11	279	2.98	19	5	ND	5	31	1	3	2	64	.71	.025	16	33	.82	417	.04	2	1.64	.02	.08	3	1	20
L11400E 9100N	2	39	21	426	.5	33	13	779	2.97	18	5	ND	4	44	4	2	2	57	1.47	.032	14	28	.83	452	.04	4	1.50	.03	.07	2	8	20
L11400E 9075N	2	100	24	235	.4	49	11	513	2.65	20	5	ND	2	62	2	2	2	52	2.18	.041	15	24	.87	529	.03	4	1.26	.03	.07	2	4	40
L11400E 9050N	1	53	13	112	.5	38	8	216	1.81	6	5	ND	4	46	1	2	2	40	1.56	.067	14	33	.70	292	.04	2	1.12	.02	.17	1	10	70
L11400E 9025N	2	57	16	222	.5	43	10	237	2.09	13	5	ND	6	62	1	2	2	40	2.02	.100	18	25	.76	577	.02	3	.90	.01	.10	1	8	80
L11500E 10400N	1	20	15	136	.3	21	8	813	2.36	6	5	ND	7	23	1	2	2	39	.39	.026	20	18	.30	478	.03	3	1.26	.02	.09	1	1	10
L11500E 10375N	2	11	18	62	.3	14	6	195	2.25	9	5	ND	4	15	1	2	2	30	.22	.024	15	15	.25	252	.02	2	.83	.01	.07	1	1	20
L11500E 10350N	1	16	6	32	.1	6	3	173	.99	4	5	ND	1	21	1	2	2	18	.43	.031	12	6	.13	161	.02	2	.33	.03	.06	1	1	20
L11500E 10325N	2	28	29	99	.1	22	8	428	3.19	27	5	ND	15	27	1	2	2	48	.51	.053	74	36	.48	298	.03	4	1.41	.02	.09	2	4	80
L11500E 10300N	3	22	24	85	.2	29	10	233	3.19	18	5	ND	13	17	1	2	2	38	.26	.018	29	30	.49	281	.03	2	1.26	.01	.09	2	1	20
L11500E 10250N	2	7	24	129	.1	17	9	232	2.74	11	5	ND	5	18	1	2	3	43	.31	.020	20	23	.48	370	.02	2	1.26	.01	.07	1	3	10
L11500E 10225N	1	12	8	30	.1	5	3	92	1.01	4	5	ND	1	17	1	2	2	19	.25	.022	7	7	.11	161	.02	2	.46	.04	.04	1	1	20
L11500E 10200N	1	13	13	78	.2	17	7	259	2.33	4	5	ND	5	20	1	2	2	41	.31	.019	17	21	.35	430	.01	2	1.24	.01	.06	1	1	20
L11500E 10175N	1	12	12	59	.3	12	5	262	1.60	3	5	ND	2	17	1	2	2	29	.26	.025	12	21	.21	238	.02	2	.79	.02	.05	1	1	10
L11500E 10150N	2	11	22	71	.2	12	4	166	2.60	9	5	ND	6	12	1	2	2	26	.16	.025	15	15	.18	141	.01	2	.65	.01	.07	1	2	20
L11500E 10125N	2	16	16	106	.1	15	6	351	2.57	10	5	ND	3	16	1	2	2	34	.22	.036	17	18	.27	306	.01	2	1.00	.01	.07	1	1	30
L11500E 10100N	1	9	17	66	.1	11	6	238	2.08	4	5	ND	2	16	1	2	2	37	.22	.028	14	15	.24	260	.02	2	.92	.02	.07	1	1	10
L11500E 10075N	2	12	16	48	.1	10	5	253	2.05	7	5	ND	2	17	1	2	2	28	.25	.033	17	17	.19	214	.01	3	.76	.01	.07	3	1	20
L11500E 10050N	1	25	12	61	.1	16	6	254	1.99	8	5	ND	3	24	1	2	2	28	.41	.031	31	18	.39	255	.02	4	.96	.01	.08	1	1	20
L11500E 10025N	2	12	17	58	.1	14	7	148	2.61	13	5	ND	5	16	1	2	2	37	.22	.018	20	21	.34	165	.02	3	1.12	.01	.07	2	1	20
L11500E 9000N	2	42	20	390	.1	38	11	687	3.00	16	5	ND	3	37	2	3	2	50	.90	.037	18	27	.69	309	.03	2	1.45	.01	.12	1	1	10
L11500E 8975N	1	50	13	104	.2	25	5	274	1.66	8	5	ND	1	83	1	2	2	27	3.03	.049	12	18	.44	239	.02	3	.79	.01	.05	1	3	50
L11500E 8950N	1	56	9	99	.3	26	6	325	2.04	13	5	ND	1	46	1	2	2	36	1.47	.045	13	25	.42	206	.03	2	1.01	.01	.06	1	2	60
L11500E 8925N	2	24	12	261	.2	41	9	385	2.08	13	5	ND	4	49	1	3	2	35	.95	.106	17	24	.57	636	.02	2	.75	.01	.07	1	1	40
L11600E 10400N	2	17	22	92	.1	27	10	303	2.83	17	5	ND	5	22	1	2	2	41	.37	.036	21	28	.54	328	.02	2	1.33	.01	.07	1	22	20
L11600E 10375N	2	17	17	92	.1	22	8	243	2.67	14	5	ND	5	23	1	2	2	38	.36	.037	21	25	.48	411	.02	2	1.26	.01	.08	1	42	20
L11600E 10350N	2	24	21	137	.1	26	11	1007	2.78	13	5	ND	3	26	1	3	2	55	.45	.038	19	29	.46	741	.02	6	1.64	.01	.08	3	31	10
L11600E 10325N	2	12	8	285	.1	18	6	232	2.13	10	5	ND	3	18	1	2	2	38	.30	.032	16	24	.43	370	.02	2	1.23	.01	.07	1	17	20
L11600E 10300N	1	15	15	82	.1	18	6	200	2.40	8	5	ND	6	16	1	2	2	38	.24	.026	19	21	.41	343	.03	2	1.20	.01	.08	1	26	10
L11600E 10275N	1	17	13	58	.3	14	5	174	2.16	4	5	ND	3	32	1	2	2	32	.55	.025	13	17	.49	211	.01	2	.96	.01	.08	1	37	20
L11600E 10250N	2	12	13	76	.1	14	6	220	2.47	9	5	ND	3	17	1	2	2	35	.29	.026	19	18	.31	281	.01	3	1.13	.01	.07	1	15	20
L11600E 10225N	2	13	20	69	.1	17	5	173	2.08	8	5	ND	1	19	1	3	2	31	.34	.027	14	17	.29	255	.01	2	.90	.01	.06	2	13	10
L11600E 10200N	2	10	14	54	.1	12	5	228	2.08	9	5	ND	2	19	1	2	2	33	.34	.027	13	16	.27	318	.01	2	1.00	.01	.07	1	19	30
L11600E 10175N	1	12	14	62	.1	14	6	218	1.91	8	5	ND	1	18	1	2	3	30	.29	.022	14	19	.30	297	.02	2	.91	.02	.05	1	8	20
L11600E 10150N	1	12	10	48	.1	18	7	441	1.36	8	5	ND	2	21	1	2	2	30	.41	.024	19	19	.39	307	.02	2	.86	.02	.07	2	10	30
STD C/AU-S	19	60	44	132	6.9	67	31	1027	4.12	41	19	7	40	50	18	19	21	61	.49	.094	41	57	.96	181	.07	33	2.03	.06	.14	12	47	1400

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L11600E 10125N	2	15	18	56	.1	14	6	157	2.86	5	5	ND	5	14	1	2	2	30	.16	.013	16	15	.25	220	.01	3	.94	.01	.05	1	10	20
L11600E 10100N	2	12	15	53	.1	11	5	155	2.47	7	5	ND	5	13	1	2	3	26	.21	.017	14	13	.23	213	.01	2	.86	.01	.05	1	6	10
L11600E 10075N	1	19	18	74	.1	17	7	203	2.34	9	5	ND	2	35	1	2	3	27	.92	.051	40	18	.49	342	.01	3	1.05	.01	.08	1	4	60
L11600E 10050N	1	6	18	99	.1	7	5	179	1.59	5	5	ND	2	19	1	2	3	26	.38	.019	14	16	.36	220	.02	3	.92	.01	.09	2	2	5
L11600E 10025N	2	11	23	80	.1	8	5	200	3.02	12	5	ND	1	14	1	2	2	25	.23	.050	12	12	.21	109	.01	4	.68	.01	.07	1	5	10
L11600E 10000N	2	13	21	66	.1	9	6	277	2.78	10	5	ND	4	11	1	2	2	24	.16	.017	15	13	.23	151	.01	2	.72	.01	.06	1	1	10
L11600E 9900N	2	34	22	159	.2	48	11	476	3.16	14	5	ND	2	33	1	2	2	47	1.06	.035	17	32	.71	334	.03	2	1.33	.02	.07	1	3	30
L11600E 9975N	1	26	12	111	.3	28	7	303	1.92	7	5	ND	1	31	1	2	3	31	.98	.030	11	19	.45	208	.02	4	.86	.02	.06	1	1	10
L11600E 8925N	1	19	2	27	.1	7	2	62	.51	2	5	ND	1	43	1	2	2	13	1.68	.056	3	2	.11	121	.02	4	.21	.03	.03	1	4	20
L11600E 8900N	1	14	11	56	.3	12	5	239	1.57	5	5	ND	2	23	1	2	2	26	.53	.022	12	12	.26	226	.02	2	.77	.02	.05	1	2	10
L11600E 8850N	2	25	12	173	.3	29	8	266	1.95	10	5	ND	2	60	1	2	2	32	1.66	.089	14	15	.65	576	.02	4	.74	.01	.08	1	5	50
L11700E 10400N	1	33	18	150	.1	35	8	231	2.99	10	5	ND	4	26	1	2	2	39	.52	.036	31	24	.60	639	.02	5	1.50	.01	.08	1	6	40
L11700E 10375N	2	17	28	82	.1	25	9	228	3.26	20	5	ND	4	23	1	4	2	40	.42	.035	22	25	.59	473	.02	3	1.39	.01	.07	3	4	10
L11700E 10350N	1	23	23	141	.2	27	9	495	3.10	9	5	ND	3	27	1	2	2	42	.61	.039	23	24	.53	571	.02	5	1.47	.01	.09	1	7	30
L11700E 10325N	1	15	12	125	.2	19	6	325	2.02	5	5	ND	3	20	1	2	2	33	.33	.042	12	16	.32	325	.02	3	1.10	.02	.06	1	16	5
L11700E 10300N	1	15	11	110	.3	15	6	256	2.12	4	5	ND	3	18	1	2	4	35	.28	.032	13	17	.31	336	.02	2	1.19	.02	.06	1	1	5
L11700E 10275N	1	11	6	59	.2	10	4	165	1.68	3	5	ND	2	17	1	2	2	29	.28	.023	10	11	.27	224	.02	3	.87	.02	.05	1	2	5
L11700E 10250N	1	10	12	52	.1	12	5	218	1.82	6	5	ND	2	15	1	3	2	27	.22	.023	13	13	.30	261	.02	2	.86	.02	.05	1	1	5
L11700E 10225N	1	20	4	23	.1	8	4	111	.86	2	5	ND	1	51	1	2	2	18	.86	.039	7	6	.26	259	.02	3	.54	.05	.03	1	1	5
L11700E 10200N	2	25	24	112	.1	18	10	901	2.83	9	5	ND	1	26	1	2	2	40	.50	.040	24	21	.40	554	.01	2	1.38	.01	.09	2	1	5
L11700E 10175N	2	12	18	80	.1	12	6	226	2.67	8	5	ND	3	17	1	2	2	35	.33	.024	17	18	.34	318	.01	3	1.13	.01	.07	2	2	10
L11700E 10150N	2	11	23	96	.1	15	8	315	3.10	6	5	ND	5	16	1	3	2	40	.28	.016	18	20	.34	296	.01	2	1.42	.01	.07	1	1	5
L11700E 10125N	1	12	13	60	.1	13	6	206	2.11	7	5	ND	3	16	1	2	2	25	.24	.034	16	15	.31	199	.02	2	.91	.01	.06	1	1	10
L11700E 10100N	2	12	20	57	.1	12	5	163	3.03	4	5	ND	3	11	1	2	2	26	.18	.024	15	14	.22	167	.01	2	.89	.01	.07	1	1	20
L11700E 10075N	1	10	16	71	.1	13	5	281	2.57	3	5	ND	3	15	1	2	2	30	.25	.021	16	14	.23	204	.01	2	.96	.01	.07	1	1	10
L11700E 10050N	1	9	13	64	.1	11	4	218	2.36	4	5	ND	3	14	1	2	2	27	.23	.026	15	14	.23	180	.01	2	.88	.01	.07	1	2	10
L11700E 10025N	1	11	12	41	.1	8	4	145	1.71	3	5	ND	1	15	1	2	2	23	.24	.029	8	9	.16	141	.01	2	.64	.02	.05	1	1	10
L11700E 9900N	2	22	25	379	.1	33	11	706	3.50	15	5	ND	3	20	2	2	2	55	.41	.025	20	25	.70	364	.04	2	1.60	.01	.08	1	14	10
L11700E 8975N	4	66	37	288	.4	65	16	666	4.28	32	5	ND	5	50	2	4	2	70	1.98	.060	26	38	1.58	634	.06	2	1.88	.02	.18	2	4	70
L11700E 8950N	3	24	18	236	.1	32	11	460	3.19	18	5	ND	2	27	1	2	2	48	.61	.045	11	24	.68	362	.03	2	1.39	.02	.10	1	2	10
L11700E 8925N	3	19	20	693	.1	23	14	1681	3.11	8	5	ND	3	25	4	2	4	63	.48	.026	12	23	.52	654	.03	2	1.77	.01	.10	1	1	20
L11700E 9900N	3	28	31	268	.1	41	14	559	4.27	19	5	ND	5	22	1	2	2	72	.46	.023	19	34	.98	606	.03	2	2.16	.01	.10	1	1	20
L11700E 9875N	1	36	19	620	.1	30	11	514	3.13	12	5	ND	3	28	3	2	2	50	.66	.020	18	22	.60	414	.03	2	1.57	.02	.08	1	1	20
L11700E 8850N	1	35	12	166	.1	20	6	295	2.01	11	5	ND	1	35	1	2	2	37	.91	.040	8	20	.38	236	.04	4	1.02	.02	.06	1	2	50
L11700E 8825N	1	20	2	33	.3	7	2	53	.53	2	5	ND	1	30	1	2	2	12	.74	.031	2	3	.11	80	.02	2	.21	.03	.04	1	1	5
L11700E 8800N	1	9	5	85	.1	5	3	84	.85	2	5	ND	1	47	1	2	2	18	1.28	.058	4	5	.27	182	.02	5	.40	.03	.04	1	2	20
STD C/AU-S	17	59	40	132	6.6	68	30	1051	4.25	36	17	6	37	47	17	16	18	60	.49	.090	39	55	.96	182	.07	33	2.01	.06	.13	12	50	1300

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L11700E 8775N	2	33	11	226	.2	39	9	313	2.21	15	5	ND	4	86	3	2	2	37	2.50	.088	18	20	.81	726	.02	3	.81	.01	.08	1	2	80
L11800E 10400N	2	9	21	92	.1	16	6	185	2.07	9	5	ND	3	15	1	2	2	44	.22	.013	15	22	.38	371	.02	2	1.50	.01	.05	1	1	10
L11800E 10375N	1	13	3	93	.1	18	6	182	1.92	6	5	ND	4	19	1	2	2	33	.31	.019	19	20	.35	446	.02	4	1.21	.01	.08	1	16	20
L11800E 10350N	1	18	12	130	.1	25	3	450	2.34	14	5	ND	4	20	2	2	2	34	.35	.026	20	20	.42	422	.03	8	1.02	.02	.09	1	25	10
L11800E 10325N	1	17	11	74	.1	22	7	588	2.18	9	5	ND	2	24	1	2	2	33	.34	.031	19	22	.36	431	.01	4	1.14	.02	.12	1	1	40
L11800E 10300N	2	16	23	112	.1	24	8	376	3.00	15	5	ND	3	21	1	2	2	48	.28	.035	24	27	.46	657	.01	3	1.69	.01	.13	1	3	30
L11800E 10275N	2	13	11	93	.2	19	6	330	2.04	11	5	ND	3	19	1	2	2	36	.27	.024	16	21	.33	496	.01	6	1.23	.01	.09	1	2	20
L11800E 10250N	1	11	14	120	.1	21	8	516	2.41	10	5	ND	4	18	1	2	2	44	.25	.018	19	23	.39	581	.02	2	1.51	.01	.09	1	6	10
L11800E 10225N	1	11	14	61	.1	17	6	288	2.21	12	5	ND	4	15	1	2	2	39	.20	.015	17	21	.37	412	.01	2	1.34	.01	.08	1	1	5
L11800E 10200N	1	31	26	137	.6	27	9	278	2.43	12	5	ND	5	43	3	2	2	37	.69	.072	24	27	.50	665	.03	4	1.46	.02	.10	1	20	30
L11800E 10175N	1	9	7	71	.2	14	5	192	1.89	10	5	ND	3	16	1	2	2	26	.26	.020	15	15	.24	250	.01	4	.92	.01	.08	1	2	5
L11800E 10150N	1	8	13	73	.1	15	5	134	2.20	9	5	ND	3	19	1	2	2	33	.31	.017	20	21	.40	221	.03	2	1.00	.01	.09	1	1	10
L11800E 10125N	1	8	7	66	.2	10	4	158	1.95	5	5	ND	2	14	1	2	2	27	.21	.021	15	12	.20	169	.01	7	.85	.01	.09	2	1	50
L11800E 10100N	2	9	19	98	.1	15	7	188	2.58	11	5	ND	3	14	1	2	2	34	.17	.022	29	20	.27	244	.01	5	1.30	.01	.11	2	1	20
L11800E 10075N	1	8	11	69	.1	17	6	151	2.15	7	5	ND	4	15	1	2	2	30	.23	.018	21	19	.35	210	.02	3	1.04	.01	.08	1	2	10
L11800E 10050N	2	9	13	47	.1	13	5	169	2.15	10	5	ND	4	14	1	2	2	32	.18	.012	18	17	.27	197	.01	2	1.09	.01	.07	1	1	10
L11800E 10025N	1	8	9	57	.1	12	5	193	1.94	6	5	ND	4	14	1	2	2	28	.20	.013	18	15	.25	193	.02	3	.86	.01	.08	1	1	10
L11800E 9000N	3	24	24	216	.2	36	10	276	3.50	23	5	ND	9	17	2	3	2	54	.28	.020	26	33	.70	371	.04	5	1.74	.01	.15	1	1	10
L11800E 8975N	2	20	21	260	.1	35	11	251	3.56	22	5	ND	8	18	1	3	2	54	.28	.019	24	32	.65	365	.04	2	1.76	.01	.14	1	3	10
L11800E 8950N	2	20	20	327	.1	35	10	268	3.37	18	5	ND	7	15	1	2	2	59	.22	.021	18	32	.83	421	.04	4	1.94	.01	.13	1	1	10
L11800E 8925N	2	15	10	215	.1	27	9	253	2.84	14	5	ND	5	15	1	3	2	46	.27	.017	17	25	.54	338	.03	2	1.44	.01	.10	1	1	10
L11800E 8900N	2	17	8	143	.3	17	6	202	1.81	9	5	ND	2	23	2	2	2	40	.49	.021	9	15	.37	271	.02	4	.94	.03	.08	1	1	10
L11800E 8875N	1	55	4	170	.2	25	6	587	1.32	7	5	ND	1	49	3	2	2	29	1.33	.029	9	13	.26	360	.02	5	.73	.03	.06	1	1	70
L11800E 8850N	1	44	2	91	.1	33	3	463	.37	3	7	ND	1	139	7	2	2	9	3.99	.064	2	6	.22	293	.01	7	.28	.03	.02	1	1	10
L11800E 8825N	1	26	2	42	.1	19	3	389	.42	2	5	ND	1	89	3	2	2	12	2.45	.037	2	4	.16	195	.01	6	.22	.05	.03	1	1	10
L11800E 9800N	1	13	2	38	.1	12	2	252	.43	2	5	ND	1	56	1	2	2	12	1.46	.037	2	3	.12	98	.02	12	.20	.05	.02	1	2	10
L11800E 8775N	1	13	3	58	.1	11	4	138	1.05	4	5	ND	1	32	1	2	2	23	.77	.026	6	10	.25	116	.02	3	.55	.04	.08	1	1	10
L11800E 8750N	1	10	7	38	.1	7	3	115	.99	4	5	ND	1	23	1	2	3	24	.48	.025	5	8	.16	80	.03	3	.39	.04	.07	1	1	5
L11800E 8725N	3	35	14	178	.2	42	9	268	2.38	20	5	ND	4	46	1	3	2	40	.98	.047	21	22	.48	654	.01	2	.89	.01	.09	1	5	20
L11900E 10400N	1	17	9	73	.2	17	6	393	1.59	7	5	ND	3	24	2	2	2	41	.38	.028	16	15	.31	360	.02	4	.85	.02	.10	1	2	10
L11900E 10375N	1	12	16	97	.2	22	7	257	2.47	9	5	ND	5	20	1	2	3	43	.30	.017	23	25	.42	469	.02	4	1.44	.01	.10	1	6	5
L11900E 10350N	2	10	14	73	.1	22	7	205	2.61	15	5	ND	5	16	1	2	2	38	.23	.016	24	26	.48	366	.03	2	1.26	.01	.10	1	4	10
L11900E 10325N	2	11	13	126	.1	23	9	244	2.72	14	5	ND	5	19	1	2	2	42	.29	.019	20	24	.45	373	.02	2	1.47	.01	.09	1	2	10
L11900E 10300N	2	22	11	84	.1	22	7	319	2.45	11	5	ND	4	25	1	2	2	37	.39	.027	21	24	.41	482	.02	4	1.28	.01	.11	1	11	30
L11900E 10275N	2	21	16	82	.1	26	8	350	2.78	14	5	ND	6	21	1	2	2	38	.30	.024	26	25	.41	416	.02	3	1.25	.01	.12	1	7	20
L11900E 10250N	1	12	15	70	.1	17	6	203	2.41	8	5	ND	2	20	1	2	2	45	.32	.023	16	25	.50	432	.04	2	1.41	.01	.11	1	3	10
STD C/AU-S	18	61	42	132	7.0	69	31	1032	4.25	41	20	7	39	50	19	16	19	61	.50	.100	40	56	.92	179	.07	33	2.02	.06	.15	12	53	1400

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L11900E 10225N	2	12	15	68	.2	19	8	497	2.41	10	5	ND	5	17	1	3	2	37	.26	.022	15	15	.36	505	.01	2	1.16	.01	.06	3	16	20
L11900E 10200N	2	14	18	73	.1	22	7	179	2.69	15	5	ND	8	13	1	2	2	34	.19	.015	21	18	.50	324	.02	2	1.22	.01	.06	2	3	10
L11900E 10175N	2	20	16	135	.1	21	8	383	2.82	11	5	ND	7	24	1	2	2	35	.45	.033	39	16	.43	482	.02	2	1.40	.01	.06	1	7	20
L11900E 10150N	1	10	16	91	.3	17	8	369	2.69	10	5	ND	5	18	1	2	2	32	.29	.032	17	14	.42	279	.02	2	1.14	.01	.06	1	3	10
L11900E 10125N	1	8	18	95	.2	11	6	263	2.28	5	5	ND	5	16	1	2	2	28	.23	.026	17	12	.31	198	.02	2	.89	.01	.06	1	1	10
L11900E 10100N	1	9	14	64	.1	13	5	185	2.28	9	5	ND	6	14	1	2	3	24	.25	.021	24	11	.26	221	.01	2	.85	.01	.07	1	48	5
L11900E 10075N	1	8	14	47	.2	11	4	137	1.95	6	5	ND	4	14	1	2	2	24	.22	.022	13	9	.21	159	.01	2	.73	.01	.06	1	1	5
L11900E 10050N	1	10	12	55	.1	13	5	236	2.32	7	5	ND	4	12	1	2	2	26	.17	.020	16	11	.26	227	.01	2	.82	.01	.06	1	1	20
L11900E 10025N	1	5	11	38	.2	8	4	87	1.41	5	5	ND	2	10	1	2	2	22	.12	.016	12	9	.22	178	.01	2	.74	.01	.04	2	1	10
L11900E 9000N	1	9	15	45	.1	8	4	177	1.82	7	5	ND	5	8	1	2	2	17	.11	.011	13	7	.13	125	.01	3	.51	.01	.06	2	1	10
L11900E 8975N	1	9	8	53	.1	6	3	148	1.19	4	5	ND	1	10	1	2	2	18	.14	.029	5	4	.10	115	.01	2	.39	.02	.05	1	2	10
L11900E 8950N	1	11	13	46	.1	8	4	135	1.85	7	5	ND	3	10	1	3	2	20	.12	.017	12	7	.15	151	.01	2	.67	.01	.05	2	1	10
L11900E 8925N	1	16	16	76	.1	13	5	428	1.72	5	5	ND	7	27	1	2	3	17	.63	.036	31	6	.25	213	.01	2	.64	.01	.11	1	7	40
L11900E 8900N	1	12	13	91	.3	9	5	680	1.66	6	5	ND	5	18	1	2	2	20	.31	.030	13	7	.17	204	.01	2	.63	.01	.07	1	8	10
L11900E 8875N	1	29	15	131	.3	33	9	494	2.17	13	5	ND	4	83	1	2	2	29	2.75	.094	17	14	.68	468	.02	4	.88	.01	.17	1	18	70
L11900E 8850N	1	28	12	155	.2	24	6	252	2.15	8	5	ND	4	29	1	2	2	27	.71	.034	25	13	.42	312	.02	2	1.00	.01	.07	1	3	30
L11900E 8825N	1	22	11	80	.3	20	5	126	1.74	7	5	ND	4	33	1	2	2	24	.78	.048	20	13	.41	204	.02	3	.73	.01	.09	1	5	70
L11900E 8800N	1	15	4	61	.1	13	4	350	1.06	4	5	ND	1	42	1	2	2	19	1.22	.050	8	6	.21	133	.02	2	.39	.02	.04	1	7	50
L11900E 8775N	1	8	3	64	.1	9	3	76	.79	2	5	ND	1	28	1	2	2	17	.73	.034	4	3	.14	112	.02	2	.25	.02	.02	1	5	20
L11900E 8750N	1	17	14	91	.1	17	5	231	1.73	8	5	ND	5	32	1	2	2	21	.72	.063	27	10	.38	205	.01	3	.49	.01	.07	1	6	60
L11900E 8725N	1	7	12	87	.1	5	3	117	1.14	7	5	ND	2	29	1	2	2	18	.70	.025	6	5	.19	100	.01	2	.58	.02	.07	1	16	20
L12000E 10400N	2	34	15	116	.4	34	9	455	2.74	12	5	ND	4	64	1	2	2	32	1.89	.074	17	15	.75	386	.01	2	1.06	.01	.15	1	13	110
L12000E 10375N	1	30	14	185	.4	27	9	791	1.63	8	5	ND	3	262	2	2	2	22	9.64	.143	13	10	.72	836	.01	13	.71	.01	.11	1	2	100
L12000E 10350N	2	26	13	127	.3	24	9	646	2.43	11	5	ND	2	65	1	3	2	34	1.45	.090	18	15	.64	524	.01	5	1.03	.01	.11	1	9	90
L12000E 10325N	1	45	18	239	.9	26	9	1040	2.59	11	5	ND	3	80	5	2	2	38	2.00	.267	17	17	.60	814	.02	11	1.51	.01	.14	1	11	30
L12000E 10300N	1	19	14	87	.2	24	8	1124	1.97	9	5	ND	2	62	1	2	2	25	2.12	.066	14	9	.56	337	.01	4	.64	.01	.07	1	6	70
L12000E 10275N	2	25	18	109	.1	25	9	438	2.80	15	5	ND	5	29	1	3	2	33	.52	.062	23	15	.46	466	.01	4	.91	.01	.10	1	8	80
L12000E 10250N	2	20	13	78	.1	18	8	427	2.32	7	5	ND	5	25	1	2	2	28	.46	.031	19	12	.34	331	.01	3	.89	.01	.09	1	1	60
L12000E 10225N	2	38	16	137	.2	35	11	764	3.01	17	5	ND	7	76	1	2	3	33	2.72	.091	21	15	.84	506	.01	4	.96	.01	.13	1	10	160
L12000E 10200N	2	33	21	107	.1	33	12	680	3.64	18	5	ND	8	32	1	2	2	44	.49	.037	45	22	.47	682	.01	2	1.59	.01	.10	2	3	100
L12000E 10175N	1	25	13	127	.2	26	7	1162	2.34	6	5	ND	4	27	1	2	2	28	.51	.045	23	15	.47	466	.02	2	1.08	.01	.07	1	1	40
L12000E 10150N	1	10	13	64	.1	16	7	199	2.21	8	5	ND	6	16	1	3	2	26	.28	.022	17	13	.36	245	.02	2	.88	.01	.06	1	7	20
L12000E 10125N	1	9	9	52	.1	9	5	170	1.71	5	5	ND	3	14	1	2	2	21	.22	.022	15	9	.23	225	.01	2	.71	.01	.06	1	9	20
L12000E 10100N	1	9	10	77	.1	13	5	195	1.87	6	5	ND	3	17	1	3	2	26	.28	.020	14	11	.31	233	.02	3	.87	.01	.06	1	1	5
L12000E 10075N	1	9	11	76	.1	12	6	217	2.09	5	5	ND	2	14	1	2	3	27	.21	.027	18	13	.34	244	.02	2	.91	.01	.06	1	2	5
L12000E 10050N	1	9	13	84	.1	12	5	255	1.98	4	5	ND	2	15	1	2	2	26	.24	.034	15	11	.29	234	.02	2	.98	.01	.05	1	2	5
STD C/AU-S	18	57	38	132	6.6	67	30	1053	4.18	41	17	6	38	48	17	20	21	58	.48	.090	39	52	.93	174	.06	32	1.96	.06	.13	11	48	1300

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L12000E 10025N	1	9	12	75	.1	14	5	253	1.85	4	5	ND	2	15	1	2	3	23	.23	.033	12	13	.24	219	.01	2	.85	.01	.05	1	4	5
L12000E 9000N	2	12	19	236	.1	17	7	534	2.30	9	5	ND	4	13	1	3	2	28	.19	.027	14	13	.23	218	.02	2	.87	.01	.08	1	1	10
L12000E 8975N	1	7	9	68	.1	7	3	106	1.60	3	5	ND	2	7	1	2	2	17	.07	.025	8	8	.10	81	.01	2	.43	.01	.06	1	1	5
L12000E 8950N	1	25	9	98	.2	20	5	287	1.44	4	5	ND	4	44	1	2	2	20	1.03	.064	72	12	.25	282	.01	3	.81	.01	.09	1	15	20
L12000E 8925N	1	8	15	81	.2	8	4	395	2.03	4	5	ND	4	9	1	2	3	18	.11	.027	14	9	.13	233	.01	2	.73	.01	.05	1	12	5
L12000E 8900N	1	11	12	63	.2	4	3	187	1.32	5	5	ND	2	14	1	2	2	13	.24	.030	9	7	.14	114	.01	2	.42	.01	.05	1	26	20
L12000E 8825N	2	10	17	75	.1	10	4	160	2.16	5	5	ND	3	12	1	2	2	21	.19	.024	11	11	.18	155	.01	2	.58	.01	.06	1	6	10
L12000E 8800N	1	13	7	67	.1	11	4	303	1.46	6	5	ND	3	13	1	2	3	18	.19	.029	12	9	.17	224	.01	3	.65	.01	.06	1	8	10
L12000E 8775N	2	17	19	88	.1	26	8	528	2.46	8	5	ND	4	15	1	2	2	32	.21	.016	18	20	.34	374	.01	2	1.02	.01	.08	2	7	30
L12000E 8750N	1	24	13	151	.1	21	6	498	1.57	6	5	ND	3	28	1	2	2	21	.49	.046	20	14	.28	349	.01	4	.74	.01	.09	1	6	30
L12000E 8725N	2	15	19	123	.1	26	7	391	2.44	6	5	ND	5	18	1	2	2	33	.28	.034	21	22	.38	311	.02	3	1.15	.01	.12	1	7	20
L12000E 8700N	2	42	16	117	.5	44	9	434	2.46	13	5	ND	3	40	1	2	2	36	.98	.055	15	23	.55	347	.02	5	1.10	.01	.18	1	4	60
L12000E 8675N	1	17	11	116	.3	21	5	251	1.26	7	5	ND	2	116	1	2	2	17	3.71	.062	8	10	.58	298	.01	2	.43	.02	.04	1	3	30
L12100E 10400N	1	24	17	91	.1	26	8	427	2.79	10	5	ND	8	17	1	2	2	27	.29	.022	47	19	.35	264	.01	4	.95	.01	.08	1	2	50
L12100E 10375N	2	25	14	79	.1	29	9	462	2.76	15	5	ND	6	18	1	3	3	30	.27	.024	30	20	.35	358	.01	2	.97	.01	.07	1	1	50
L12100E 10350N	2	18	23	94	.1	24	9	434	2.78	14	5	ND	4	18	1	3	2	32	.27	.025	18	20	.35	379	.01	3	1.02	.01	.06	1	1	30
L12100E 10325N	2	18	20	69	.1	18	8	402	2.36	13	5	ND	4	19	1	2	2	28	.34	.024	14	17	.32	335	.01	3	.88	.01	.07	1	1	30
L12100E 10300N	2	14	16	51	.1	18	7	248	2.04	9	5	ND	3	12	1	4	2	24	.16	.017	12	15	.28	278	.01	2	.74	.01	.04	2	1	30
L12100E 10275N	2	34	10	107	.2	25	6	701	2.00	7	5	ND	1	55	1	2	2	22	1.67	.066	14	13	.43	407	.01	3	.67	.02	.08	1	3	110
L12100E 10250N	2	22	13	75	.1	25	5	254	2.45	5	5	ND	6	16	1	2	2	29	.24	.019	23	18	.31	277	.01	2	.95	.01	.06	1	1	40
L12100E 10225N	2	14	18	76	.1	19	7	250	2.52	9	5	ND	5	11	1	2	2	29	.14	.017	17	18	.38	221	.02	2	.98	.01	.05	1	1	20
L12100E 10200N	2	36	13	125	.3	30	8	608	2.79	11	5	ND	3	53	1	2	2	25	1.57	.077	19	16	.46	384	.01	2	.83	.01	.12	1	14	140
L12100E 10175N	2	38	19	133	.1	36	9	454	2.92	12	5	ND	4	57	1	3	2	31	1.65	.095	22	21	.71	351	.01	4	.90	.01	.14	1	6	100
L12100E 10150N	3	44	15	137	.1	39	9	687	3.41	13	5	ND	4	37	1	2	2	29	.69	.065	22	20	.46	448	.01	3	.88	.01	.09	1	11	110
L12100E 10125N	3	46	18	171	.3	38	9	466	3.03	17	5	ND	2	77	1	2	2	26	2.04	.089	20	20	.49	507	.01	4	.81	.01	.11	1	4	160
L12100E 10100N	2	27	17	114	.1	26	7	483	2.27	16	5	ND	3	51	1	2	2	23	1.49	.057	22	17	.50	377	.01	2	.76	.01	.10	1	7	50
L12100E 10075N	1	25	14	91	.1	24	7	395	2.09	8	5	ND	4	70	1	4	2	25	3.36	.064	20	18	.92	357	.02	3	.86	.01	.07	1	5	80
L12100E 10050N	1	9	16	102	.1	15	5	253	1.98	3	5	ND	3	13	1	2	2	24	.23	.020	15	14	.28	213	.02	2	.79	.01	.06	1	5	5
L12100E 10025N	1	8	11	59	.2	10	4	181	1.93	4	5	ND	3	11	1	2	2	40	.17	.018	13	15	.22	152	.01	2	.70	.01	.05	1	19	10
L12100E 9000N	1	9	12	49	.1	10	3	217	1.58	3	5	ND	3	15	1	2	2	15	.28	.023	9	9	.16	103	.01	2	.42	.01	.06	1	1	10
L12100E 8975N	1	9	10	71	.1	11	3	148	1.47	4	5	ND	3	15	1	2	2	16	.24	.031	17	11	.23	152	.02	2	.51	.01	.07	1	1	10
L12100E 8950N	1	6	12	45	.1	5	3	165	1.57	4	5	ND	2	8	1	2	2	15	.13	.014	10	7	.11	101	.01	2	.44	.01	.04	1	8	20
L12100E 8925N	1	9	10	58	.1	10	3	146	1.46	3	5	ND	1	14	1	2	2	16	.23	.038	10	12	.23	182	.01	4	.61	.01	.04	1	1	20
L12100E 8900N	1	10	9	48	.1	7	3	219	1.42	4	5	ND	2	13	1	2	2	18	.18	.018	9	9	.16	199	.01	2	.55	.01	.04	1	1	10
L12100E 8850N	2	6	10	54	.1	9	3	150	1.71	2	5	ND	3	13	1	2	2	23	.16	.014	11	11	.19	239	.01	2	.68	.01	.04	1	15	10
L12100E 8825N	1	15	12	72	.1	14	6	447	1.83	6	5	ND	2	18	1	2	2	20	.30	.028	11	12	.21	319	.01	3	.72	.01	.05	1	7	20
STD C/AU-S	18	58	41	132	6.8	70	31	1012	4.05	42	18	7	37	47	17	17	18	56	.47	.090	37	55	.92	173	.06	33	1.84	.06	.14	13	52	1300

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L12100E 8775N	1	13	19	69	.1	13	6	283	2.13	6	5	ND	4	13	1	2	4	27	.18	.018	14	11	.21	213	.02	3	.78	.01	.08	1	10	10
L12100E 8750N	1	12	18	106	.1	16	7	545	2.27	5	5	ND	5	17	1	2	2	30	.23	.026	19	13	.26	263	.03	2	.82	.01	.10	1	1	10
L12100E 8725N	1	21	17	75	.1	24	9	390	2.52	13	5	ND	8	16	1	2	2	35	.23	.025	23	17	.37	291	.02	3	1.07	.01	.15	1	1	30
L12100E 8700N	2	24	17	85	.1	21	10	551	2.44	9	5	ND	7	25	1	2	2	37	.29	.036	19	17	.42	351	.03	3	1.08	.01	.14	1	1	30
L12100E 8675N	1	23	19	98	.1	23	9	444	2.37	9	5	ND	6	27	1	2	2	36	.38	.045	23	16	.35	370	.02	3	1.16	.01	.13	1	1	20
L12100E 8650N	1	35	13	87	.3	21	8	442	1.95	6	5	ND	4	41	1	2	2	33	.67	.046	14	16	.34	335	.02	2	1.02	.02	.11	1	1	10
L12100E 8625N	3	27	13	233	.3	34	8	303	2.10	13	5	ND	5	86	1	2	2	31	2.42	.105	16	12	.78	541	.02	2	.67	.01	.06	1	1	50
L12100E 8600N	2	23	15	204	.2	32	7	255	1.89	9	5	ND	4	103	2	2	2	29	3.08	.104	15	10	.79	518	.02	2	.63	.01	.05	1	2	40
L12200E 10375N	2	47	18	150	.3	37	11	932	3.37	15	5	ND	8	72	1	2	2	37	2.37	.105	26	17	.78	502	.01	5	1.14	.01	.15	1	20	150
L12200E 10350N	2	48	18	151	.3	38	12	826	3.42	18	5	ND	8	76	1	2	2	39	2.51	.098	26	18	.80	547	.01	3	1.16	.01	.15	1	9	190
L12200E 10325N	2	44	18	138	.3	34	11	857	3.32	13	5	ND	6	61	1	2	2	37	2.09	.090	26	17	.74	494	.01	2	1.20	.01	.14	1	7	200
L12200E 10300N	2	32	19	112	.1	33	12	1026	2.59	11	5	ND	6	75	1	2	2	30	2.54	.090	22	14	.78	470	.01	5	.84	.01	.11	1	6	110
L12200E 10275N	2	46	26	147	.3	37	11	550	3.22	16	5	ND	8	66	1	2	2	39	2.09	.098	30	19	.72	477	.01	11	1.16	.01	.16	1	7	210
L12200E 10250N	3	53	25	171	.3	42	14	774	3.71	18	5	ND	10	56	1	2	3	43	1.44	.098	33	19	.66	535	.01	5	1.33	.01	.19	1	4	190
L12200E 10225N	2	36	20	117	.2	28	9	829	2.31	7	5	ND	3	53	1	2	2	32	1.23	.075	22	13	.47	418	.01	4	.90	.02	.09	1	5	110
L12200E 10200N	2	45	19	144	.4	33	10	679	3.31	10	5	ND	7	78	1	2	2	37	2.48	.091	25	17	.78	461	.01	2	1.25	.01	.15	1	8	180
L12200E 10175N	2	46	22	128	.2	37	11	842	3.59	11	5	ND	6	46	1	2	2	35	.96	.061	29	16	.45	461	.01	2	1.21	.01	.15	1	16	200
L12200E 10150N	2	46	18	133	.1	34	12	697	3.65	14	5	ND	5	41	1	4	2	39	.69	.057	38	18	.48	505	.01	3	1.24	.01	.12	1	4	140
L12200E 10125N	2	47	21	157	.2	41	13	1083	3.79	17	5	ND	10	88	1	3	2	40	2.80	.114	28	18	.86	607	.01	3	1.23	.01	.17	1	2	180
L12200E 10100N	2	41	17	136	.1	32	9	436	2.99	12	5	ND	4	70	1	2	2	39	1.51	.085	28	17	.58	462	.01	3	1.21	.01	.15	1	22	90
L12200E 10075N	3	53	21	159	.3	42	11	510	3.33	15	5	ND	9	63	1	2	2	49	1.77	.088	35	20	.80	507	.01	6	1.36	.01	.20	1	2	150
L12200E 10050N	1	15	14	78	.1	16	6	165	2.40	8	5	ND	8	16	1	2	2	33	.26	.031	29	16	.40	257	.02	4	1.15	.01	.08	1	7	30
L12200E 10025N	2	11	13	79	.1	11	5	237	2.18	4	5	ND	7	12	1	2	3	27	.16	.020	18	12	.29	230	.02	2	.90	.01	.08	1	1	10
L12300E 10350N	1	33	4	107	.2	16	5	459	1.74	5	5	ND	1	145	1	2	2	11	3.91	.101	9	5	.62	298	.01	9	.33	.01	.03	1	1	80
L12300E 10325N	1	30	6	104	.3	21	4	1304	.82	2	5	ND	1	118	1	2	2	9	3.54	.093	6	5	.62	342	.01	8	.36	.01	.04	1	1	60
L12300E 10300N	2	14	3	74	.2	5	2	1497	.28	2	12	ND	1	121	1	2	2	3	3.94	.083	2	1	.60	138	.01	8	.10	.01	.02	1	1	40
L12300E 10275N	1	6	2	18	.2	1	2	254	.57	2	5	ND	1	25	1	2	2	12	.51	.042	3	1	.12	59	.02	5	.18	.04	.02	1	1	5
L12300E 10250N	1	20	4	57	.1	9	4	355	1.12	3	5	ND	1	55	1	2	2	17	1.28	.047	7	5	.29	232	.01	5	.44	.03	.05	1	1	40
L12300E 10225N	2	43	16	109	.2	28	11	1338	2.77	8	5	ND	4	55	1	2	2	30	1.42	.080	23	13	.51	465	.01	3	.98	.01	.13	1	1	190
L12300E 10200N	1	16	5	53	.2	9	4	233	1.35	2	6	ND	2	36	1	2	2	26	.72	.067	7	5	.20	121	.03	4	.39	.03	.04	1	1	40
L12300E 10175N	2	58	14	106	.3	34	9	810	2.71	4	5	ND	3	70	1	2	2	30	1.81	.073	24	14	.53	472	.01	2	1.11	.02	.11	1	1	110
L12300E 10150N	2	47	22	140	.3	41	13	1654	3.50	10	5	ND	4	65	2	2	2	40	1.26	.063	32	17	.51	720	.01	3	1.34	.01	.10	1	1	100
L12300E 10125N	3	49	20	152	.3	37	11	800	3.65	12	5	ND	8	74	1	4	2	36	1.99	.101	27	17	.73	486	.01	5	1.14	.01	.15	1	1	210
L12300E 10100N	1	31	9	85	.2	16	6	275	1.69	2	5	ND	2	48	1	2	2	20	1.13	.059	12	8	.29	264	.01	4	.64	.02	.09	1	1	70
L12300E 10075N	2	43	14	130	.3	34	10	734	3.33	7	5	ND	6	60	1	2	2	32	1.03	.086	26	15	.51	416	.01	3	1.13	.01	.12	1	1	210
L12300E 10050N	2	40	18	105	.2	28	12	1291	3.12	10	5	ND	4	71	1	3	2	32	1.29	.068	23	15	.44	491	.01	4	.95	.01	.09	1	1	140
STD C/AU-S	17	61	41	132	7.2	67	31	1018	4.11	42	18	8	39	48	18	17	18	61	.48	.095	40	52	.93	180	.07	34	1.93	.06	.13	11	53	1300

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L12300E 10025N	3	61	25	176	.5	53	16	1721	4.73	23	5	ND	12	73	1	3	2	33	1.47	.116	30	21	.71	663	.01	3	1.12	.01	.14	2	3	270
L12400E 10400N	1	26	3	53	.5	13	3	422	.58	7	5	ND	1	40	1	2	2	12	.84	.068	5	3	.13	246	.01	6	.28	.04	.04	1	1	20
L12400E 10375N	1	25	5	44	.5	12	4	652	1.00	10	5	ND	2	42	1	2	2	16	.90	.049	6	6	.20	260	.02	5	.46	.03	.04	1	1	30
L12400E 10350N	2	17	14	66	.2	18	5	217	2.09	11	5	ND	7	12	1	2	2	21	.18	.020	16	14	.21	233	.01	2	.66	.01	.05	1	5	20
L12400E 10325N	2	15	9	72	.3	16	6	237	2.10	3	6	ND	6	14	1	2	2	25	.21	.022	15	14	.25	233	.02	2	.84	.01	.07	1	1	20
L12400E 10300N	2	23	10	84	.4	24	8	378	2.71	9	5	ND	6	25	1	2	2	31	.36	.029	20	21	.39	319	.02	2	1.10	.01	.10	1	1	40
L12400E 10275N	2	19	13	93	.4	22	7	369	2.76	6	6	ND	8	16	1	2	2	29	.21	.020	20	20	.39	271	.02	3	1.04	.01	.09	1	1	40
L12400E 10225N	1	18	9	62	.3	18	6	331	2.17	4	5	ND	6	21	1	2	2	26	.45	.025	26	15	.32	257	.01	2	.91	.01	.06	1	2	30
L12400E 10200N	1	17	11	72	.1	20	7	366	2.43	11	5	ND	7	20	1	2	2	30	.43	.027	30	17	.36	337	.01	2	1.04	.01	.07	2	1	30
L12400E 10175N	2	19	13	70	.2	20	7	534	2.66	6	5	ND	6	20	1	2	2	30	.32	.024	17	17	.28	328	.01	2	.99	.01	.08	1	1	30
L12400E 10150N	1	18	5	60	.2	10	4	284	.96	2	5	ND	1	43	1	2	2	15	.66	.042	6	7	.16	178	.01	2	.37	.03	.03	1	1	20
L12400E 10125N	1	18	2	55	.2	10	3	249	.93	2	5	ND	1	37	1	2	2	15	.73	.050	6	5	.17	137	.01	3	.37	.03	.05	1	1	30
L12400E 10100N	2	34	13	129	.3	35	9	652	3.18	11	5	ND	7	59	1	2	2	32	1.60	.071	24	20	.64	438	.01	2	1.12	.01	.13	2	6	130
L12400E 10075N	2	35	10	86	.4	29	8	562	2.34	5	5	ND	4	52	1	2	3	27	1.59	.053	18	15	.44	387	.01	3	.89	.02	.10	1	1	130
L12400E 10050N	3	39	18	110	.2	38	11	781	3.30	13	5	ND	6	37	1	3	2	38	.66	.036	30	22	.42	472	.01	3	1.29	.01	.15	2	1	80
L12400E 10025N	1	11	2	16	.5	3	1	90	.43	2	7	ND	2	23	1	2	2	10	.44	.033	2	1	.07	102	.01	2	.17	.05	.04	1	1	20
L12400E 10000N	2	41	10	81	.2	24	7	593	2.39	5	5	ND	3	37	1	2	2	23	.69	.046	16	12	.41	264	.01	3	.74	.03	.07	1	2	60
L12400E 9975N	2	28	15	106	.2	31	10	551	3.36	6	5	ND	10	30	1	2	2	35	.35	.031	31	21	.38	361	.01	2	1.33	.01	.12	1	1	70
L12400E 9950N	1	16	9	61	.2	16	8	463	2.75	3	6	ND	5	25	1	2	2	28	.40	.026	21	15	.24	198	.01	2	.85	.01	.09	1	1	10
L12400E 9925N	2	17	15	85	.1	18	8	332	2.94	7	5	ND	7	20	1	2	2	30	.34	.031	23	20	.36	230	.01	2	1.16	.01	.10	2	1	20
L12400E 9900N	2	19	17	95	.1	25	10	352	3.50	10	5	ND	10	20	1	3	2	34	.34	.033	36	25	.45	257	.01	2	1.37	.01	.12	2	1	20
L12400E 9875N	2	16	15	72	.1	15	8	418	2.63	4	5	ND	9	13	1	2	2	23	.17	.022	38	14	.22	171	.01	2	.85	.01	.08	1	1	40
L12400E 9850N	2	7	16	43	.2	9	5	261	2.18	2	5	ND	6	9	1	2	2	20	.13	.013	17	11	.19	125	.01	2	.78	.01	.04	2	5	20
L12400E 9825N	1	15	16	50	.2	10	5	317	1.59	4	5	ND	7	34	1	2	2	18	.49	.028	36	12	.34	230	.01	2	.82	.02	.06	2	1	30
L12400E 9800N	1	7	6	33	.3	5	3	107	1.53	2	10	ND	4	9	1	2	2	15	.12	.014	12	6	.09	65	.01	2	.42	.01	.04	1	1	20
L12400E 9775N	1	9	11	38	.1	4	3	162	1.47	2	5	ND	4	17	1	2	2	16	.24	.013	18	7	.13	91	.01	2	.53	.02	.04	1	1	20
L12400E 9750N	1	9	3	40	.3	6	2	137	.81	2	5	ND	3	24	1	2	2	13	.41	.035	9	4	.10	64	.01	2	.29	.03	.04	1	1	20
L12400E 9725N	2	30	22	127	.2	27	7	475	2.45	11	5	ND	8	43	1	2	2	28	1.33	.057	49	16	.47	276	.01	4	1.01	.01	.16	2	1	100
L12400E 9700N	2	30	23	118	.2	25	6	419	2.47	10	5	ND	9	38	1	2	2	27	1.01	.047	59	16	.43	258	.01	2	1.03	.01	.15	1	1	100
L12400E 9675N	2	31	23	128	.2	29	7	444	2.57	12	5	ND	9	37	1	2	2	29	.93	.050	56	17	.43	276	.01	3	1.08	.01	.15	1	3	90
L12400E 9650N	1	19	15	80	.1	16	5	343	1.95	7	5	ND	6	43	1	2	2	24	1.03	.029	31	15	.31	184	.01	2	.82	.02	.10	1	1	30
L12400E 9625N	1	25	15	154	.2	14	5	380	1.47	5	5	ND	4	35	1	2	2	20	.68	.043	28	10	.23	249	.01	2	.76	.02	.10	1	1	30
L12400E 9600N	1	10	15	59	.3	9	4	289	1.45	4	5	ND	6	14	1	2	2	16	.23	.027	20	9	.17	81	.01	2	.44	.02	.08	1	1	20
L12400E 9575N	1	10	5	15	.2	2	2	68	.52	2	5	ND	1	31	1	2	2	11	.77	.041	4	1	.10	131	.02	4	.33	.03	.03	1	1	10
L12400E 9550N	2	19	18	99	.3	14	6	294	2.05	9	5	ND	11	21	1	2	2	20	.35	.027	28	13	.27	171	.01	2	.76	.01	.09	1	2	30
L12400E 9525N	2	9	18	68	.1	13	5	260	1.89	10	5	ND	6	12	1	2	2	20	.17	.025	20	12	.21	167	.01	2	.65	.01	.07	1	1	20
STD C/AU-S	19	57	40	132	7.0	70	31	1038	4.16	43	19	8	38	48	17	17	18	57	.48	.086	38	52	.93	175	.06	33	1.90	.06	.14	12	53	1400

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L12400E 9500N	1	13	16	60	.2	12	4	238	1.70	8	5	ND	4	11	1	2	2	18	.16	.024	17	7	.18	153	.01	2	.52	.01	.06	1	1	10
L12500E 10400N	1	20	7	95	.2	15	6	417	1.62	6	5	ND	1	18	1	2	2	23	.31	.030	11	9	.23	268	.01	2	.71	.01	.06	1	1	20
L12500E 10375N	1	11	13	69	.2	16	6	179	1.98	8	5	ND	4	10	1	2	2	29	.17	.016	12	12	.31	276	.01	2	.89	.01	.04	1	1	5
L12500E 10350N	1	19	14	69	.1	23	7	205	2.17	10	5	ND	3	22	1	2	3	28	.36	.045	16	14	.42	358	.02	2	.92	.01	.05	1	2	5
L12500E 10325N	1	12	7	52	.1	15	5	119	1.85	8	5	ND	2	14	1	2	2	25	.23	.028	10	11	.28	232	.01	2	.81	.01	.04	2	1	5
L12500E 10300N	2	16	15	94	.2	19	6	186	2.25	10	5	ND	4	13	1	2	2	30	.20	.021	14	14	.33	369	.01	2	.98	.01	.05	1	1	20
L12500E 10275N	2	20	9	76	.3	24	8	265	2.45	9	6	ND	4	21	1	2	2	37	.31	.047	13	16	.30	401	.01	2	.97	.01	.09	1	1	10
L12500E 10250N	1	15	6	56	.4	16	6	212	2.09	6	5	ND	5	9	1	2	2	28	.08	.014	14	13	.28	211	.01	2	.90	.01	.04	1	2	30
L12500E 10225N	2	48	18	143	.4	51	14	836	2.93	17	5	ND	7	81	2	6	2	39	2.75	.081	19	17	.94	555	.02	3	1.14	.01	.14	2	5	150
L12500E 10200N	2	35	14	103	.4	30	9	515	2.41	11	5	ND	4	41	1	4	2	28	1.16	.048	16	13	.50	388	.01	3	.88	.01	.09	1	1	120
L12500E 10175N	1	12	5	61	.1	11	4	385	1.11	4	5	ND	1	17	1	2	2	17	.31	.041	9	6	.14	263	.02	2	.47	.01	.04	1	1	10
L12500E 10150N	1	13	14	58	.1	14	6	264	2.07	6	5	ND	3	16	1	2	2	28	.26	.023	13	11	.26	338	.01	2	.92	.01	.05	1	1	5
L12500E 10125N	2	29	22	103	.3	31	10	697	2.75	14	5	ND	4	42	1	6	2	38	.74	.061	21	16	.70	380	.01	2	1.10	.02	.11	2	3	110
L12500E 10100N	1	49	14	140	.3	30	7	404	1.95	7	5	ND	1	51	2	2	2	26	1.07	.046	15	12	.69	346	.01	4	.95	.02	.08	1	1	30
L12500E 10075N	1	8	3	37	.3	5	2	53	.58	2	5	ND	1	23	1	2	2	15	.43	.027	2	2	.20	50	.02	3	.18	.03	.02	1	1	10
L12500E 10050N	1	21	3	41	.4	11	4	550	1.18	3	5	ND	2	40	1	2	3	16	.80	.034	8	5	.36	239	.01	2	.47	.03	.07	1	1	20
L12500E 10025N	1	14	11	67	.3	10	5	588	1.65	4	5	ND	2	22	1	2	2	27	.36	.026	10	9	.25	292	.01	2	.64	.02	.04	1	1	10
L12500E 10000N	1	23	13	83	.3	24	7	590	2.07	7	5	ND	2	56	1	2	2	28	1.07	.063	16	12	.71	251	.01	3	.81	.01	.09	1	8	70
L12500E 9975N	2	38	13	115	.1	34	10	546	3.09	11	5	ND	5	31	1	2	2	36	.50	.037	31	17	.61	368	.01	2	1.18	.01	.09	2	11	90
L12500E 9950N	1	17	11	76	.2	20	9	502	2.38	8	5	ND	2	37	1	2	2	26	.74	.053	20	13	.56	306	.01	2	.86	.02	.07	1	6	30
L12500E 9925N	1	24	15	143	.1	27	10	906	2.50	8	5	ND	3	35	1	2	2	29	.47	.035	25	14	.51	382	.01	2	1.10	.01	.07	1	14	5
L12500E 9900N	2	15	13	77	.1	17	7	300	2.46	8	5	ND	2	39	1	2	2	27	.67	.037	16	12	.50	277	.01	2	.80	.01	.06	1	21	10
L12500E 9875N	2	11	16	74	.1	17	8	279	2.74	9	5	ND	4	33	1	2	2	30	.47	.041	16	15	.53	328	.01	2	.91	.01	.07	1	4	10
L12500E 9850N	1	18	19	71	.1	20	9	617	2.62	7	5	ND	2	37	1	2	2	28	.68	.028	27	12	.42	445	.01	2	1.04	.02	.06	1	115	60
L12500E 9825N	1	13	11	54	.1	12	7	343	1.99	4	5	ND	2	19	1	2	2	22	.31	.021	17	11	.37	201	.01	2	.79	.01	.05	1	29	20
L12500E 9800N	1	17	8	61	.2	15	5	434	1.46	3	5	ND	2	58	1	2	2	15	.45	.031	14	9	.65	175	.01	4	.59	.02	.05	1	11	30
L12500E 9775N	1	10	11	57	.1	11	5	190	2.08	6	6	ND	3	18	1	2	2	22	.24	.018	16	10	.31	163	.01	2	.83	.01	.06	1	8	10
L12500E 9750N	1	6	12	33	.1	9	3	90	1.38	4	5	ND	1	11	1	2	2	20	.17	.014	13	10	.29	119	.02	2	.66	.01	.05	2	3	5
L12500E 9725N	1	60	17	114	.1	45	11	1391	2.53	7	5	ND	2	62	2	2	2	29	1.17	.036	70	16	.46	546	.01	2	1.31	.01	.08	1	15	40
L12500E 9700N	1	61	14	127	.1	43	9	329	2.30	8	5	ND	7	117	2	4	2	30	1.55	.129	152	16	.59	823	.02	4	1.51	.03	.10	2	8	50
L12500E 9675N	2	7	12	44	.1	8	4	161	2.11	7	5	ND	2	12	1	2	2	20	.17	.017	18	8	.17	144	.01	2	.64	.01	.05	1	29	5
L12500E 9650N	2	5	17	49	.1	7	3	163	2.04	5	5	ND	2	11	1	2	2	19	.19	.013	12	7	.16	123	.01	2	.59	.01	.05	1	6	5
L12500E 9575N	1	17	17	95	.1	15	3	182	1.32	3	5	ND	1	51	1	2	2	18	1.39	.050	36	10	.36	227	.01	2	.75	.01	.10	1	45	40
L12500E 9550N	2	27	22	129	.1	24	6	460	2.41	11	5	ND	6	63	1	2	2	29	2.23	.067	39	12	.64	330	.01	2	.93	.01	.17	1	28	90
L12500E 9525N	2	25	25	110	.1	23	7	387	2.53	9	5	ND	5	34	1	2	3	29	.75	.031	56	12	.43	391	.01	2	1.03	.01	.15	1	33	70
L12500E 9500N	2	21	25	106	.1	23	7	550	2.14	11	5	ND	6	50	1	2	2	25	1.66	.064	35	10	.53	272	.01	6	.70	.01	.13	1	31	40
STD C/AU-S	18	60	45	132	7.2	71	31	1023	4.28	44	18	7	38	48	18	17	23	61	.49	.088	40	53	.96	180	.07	33	2.00	.06	.13	12	52	1300

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L12500E 9475N	1	22	12	93	.4	23	6	345	1.81	9	5	ND	2	64	1	2	2	25	1.37	.051	15	15	.51	302	.01	3	.75	.02	.07	1	39	70
L12500E 9450N	1	14	11	85	.1	19	6	291	2.31	8	5	ND	4	17	1	2	2	26	.27	.021	25	18	.41	234	.02	2	1.03	.01	.06	1	4	10
L12500E 9425N	1	18	15	94	.1	24	7	288	2.58	10	5	ND	5	18	1	2	2	29	.28	.027	32	20	.47	242	.02	3	1.07	.01	.06	1	8	20
L12500E 9400N	2	22	14	77	.1	32	13	330	4.10	13	5	ND	4	33	1	6	4	39	.58	.044	38	29	.52	328	.01	2	1.43	.01	.08	3	6	30
L12600E 10400N	2	17	16	83	.1	25	10	298	3.75	13	5	ND	5	28	1	5	3	38	.43	.035	18	23	.42	245	.01	2	1.50	.01	.10	2	4	20
L12600E 10375N	1	13	12	78	.1	20	7	181	2.72	8	6	ND	5	18	1	5	2	30	.24	.025	17	19	.40	193	.02	2	1.20	.01	.08	1	7	10
L12600E 10350N	2	17	14	73	.1	20	9	293	3.19	7	5	ND	6	18	1	2	2	27	.22	.026	22	18	.42	162	.01	2	1.28	.01	.09	1	4	20
L12600E 10325N	2	12	13	58	.1	17	10	477	2.90	12	5	ND	4	18	1	6	2	30	.27	.027	19	20	.33	202	.01	2	1.11	.01	.09	1	9	20
L12600E 10300N	1	15	8	45	.2	18	8	299	2.57	2	5	ND	2	19	1	2	2	39	.27	.022	11	18	.26	135	.01	2	1.22	.02	.04	1	1	10
L12600E 10275N	2	42	28	132	.3	35	9	541	2.53	14	5	ND	4	54	1	5	2	37	1.21	.087	38	20	.53	441	.01	3	1.11	.01	.17	1	8	130
L12600E 10250N	1	19	7	59	.2	11	4	224	1.17	6	5	ND	2	26	1	2	2	17	.69	.042	16	6	.22	124	.02	2	.42	.02	.09	1	4	20
L12600E 10225N	2	29	26	127	.1	24	7	472	2.43	14	5	ND	8	63	1	2	3	27	2.38	.065	43	14	.57	351	.01	4	.92	.01	.18	1	5	70
L12600E 10200N	1	47	27	99	.1	34	9	529	2.67	11	5	ND	4	44	1	3	2	30	.99	.044	84	17	.38	493	.01	2	1.15	.01	.13	1	12	50
L12600E 10175N	2	20	25	104	.2	18	7	310	2.41	11	5	ND	6	19	1	2	3	25	.40	.027	28	13	.28	193	.01	3	.92	.01	.12	1	28	40
L12600E 10150N	2	16	29	80	.1	25	8	218	3.04	17	5	ND	4	21	1	6	3	37	.33	.040	24	25	.51	404	.03	2	1.32	.01	.07	2	7	20
L12600E 10125N	2	18	15	78	.3	21	6	156	2.58	10	5	ND	2	30	1	2	2	34	.64	.029	15	19	.40	391	.02	2	1.33	.01	.07	1	4	20
L12600E 10100N	1	22	13	100	.4	26	7	330	2.36	10	5	ND	4	20	1	2	2	27	.36	.037	20	18	.35	263	.02	2	1.01	.01	.08	1	76	20
L12600E 10075N	1	9	9	66	.3	10	4	110	1.44	2	5	ND	2	13	1	2	2	22	.18	.018	11	11	.21	155	.02	3	.70	.01	.06	1	14	5
L12600E 10050N	2	24	23	232	.2	27	8	500	2.62	4	5	ND	4	27	1	2	2	47	.44	.031	22	24	.39	560	.02	2	1.89	.01	.08	1	24	20
L12600E 10025N	1	17	10	69	.1	18	7	165	2.18	11	5	ND	2	13	1	2	3	26	.17	.026	12	15	.26	268	.01	2	.90	.01	.06	1	8	20
L12600E 10000N	1	12	13	88	.2	20	7	284	2.15	7	5	ND	3	14	1	2	2	32	.18	.023	15	18	.33	305	.02	2	1.08	.01	.07	1	2	10
L12600E 9975N	1	15	16	155	.3	20	7	634	2.30	7	5	ND	3	18	1	2	5	33	.28	.034	16	20	.35	410	.02	2	1.26	.01	.08	1	16	10
L12600E 9950N	2	31	14	98	.1	31	11	695	3.19	16	5	ND	7	21	1	2	2	35	.30	.034	21	22	.40	408	.01	2	1.25	.01	.10	1	1	50
L12600E 9925N	1	19	7	51	.4	17	5	304	1.23	4	5	ND	1	37	1	2	2	18	.88	.037	8	9	.22	182	.02	2	.54	.03	.07	1	4	50
L12600E 9900N	1	11	11	63	.2	15	6	214	2.39	8	5	ND	5	16	1	2	2	28	.26	.023	16	16	.32	238	.01	2	1.00	.01	.07	1	9	10
L12600E 9875N	2	16	25	75	.1	26	8	218	3.07	17	5	ND	6	15	1	3	2	33	.18	.026	22	25	.50	320	.03	5	1.28	.01	.07	1	1	10
L12600E 9850N	1	12	15	58	.1	14	5	190	2.07	9	5	ND	3	15	1	2	2	26	.22	.023	18	15	.27	272	.01	2	.94	.01	.06	1	2	20
L12600E 9825N	2	24	26	73	.1	28	10	420	3.05	18	5	ND	6	22	1	6	3	35	.33	.024	24	22	.33	374	.01	2	1.30	.01	.08	2	1	30
L12600E 9800N	1	17	11	72	.1	14	6	374	2.25	13	5	ND	5	28	1	2	2	23	.41	.026	47	14	.26	209	.01	3	.95	.02	.07	1	38	40
L12600E 9775N	2	7	17	44	.1	12	5	201	2.33	8	5	ND	5	13	1	2	4	22	.23	.009	26	14	.22	154	.01	2	.90	.01	.05	1	10	20
L12600E 9725N	1	9	11	42	.1	9	4	158	1.52	6	5	ND	1	23	1	2	2	17	.35	.019	14	11	.20	135	.01	2	.68	.02	.07	1	4	10
L12600E 9575N	1	7	13	43	.1	5	2	102	1.59	3	5	ND	1	12	1	2	4	15	.16	.012	12	7	.08	78	.01	2	.44	.01	.06	1	15	5
L12600E 9550N	2	7	9	49	.1	4	2	132	1.31	2	5	ND	1	8	1	2	2	11	.10	.018	4	3	.04	37	.01	2	.30	.02	.08	1	1	5
L12600E 9525N	1	6	15	59	.1	11	4	128	1.85	8	5	ND	4	12	1	2	3	20	.16	.014	56	13	.25	104	.02	2	.79	.01	.07	1	12	5
L12600E 9500N	1	10	14	77	.1	7	4	178	1.70	7	5	ND	5	18	1	2	6	17	.37	.028	73	8	.18	105	.01	2	.66	.02	.10	1	225	50
L12600E 9475N	1	14	18	117	.1	15	6	423	1.74	9	5	ND	1	86	1	2	2	24	2.97	.052	17	13	.42	259	.01	6	.78	.02	.12	1	4	30
STD C/AU-S	19	63	40	132	7.0	72	31	1032	4.10	42	17	8	39	50	19	16	19	60	.51	.095	39	53	.90	184	.07	34	2.07	.06	.14	13	51	1300

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L12600E 9450N	2	31	24	146	.2	31	8	569	2.57	10	5	ND	7	52	1	2	2	37	1.19	.078	36	21	.57	322	.01	5	1.25	.01	.17	1	25	330
L12600E 9425N	2	22	17	103	.1	19	6	270	2.26	9	5	ND	5	28	1	2	2	30	.45	.047	21	17	.40	190	.01	2	1.05	.01	.11	1	10	100
L12600E 9400N	2	27	28	110	.1	26	7	235	2.67	14	5	ND	8	24	1	2	2	36	.47	.033	42	21	.46	223	.01	3	1.21	.01	.16	1	7	70
L12700E 10400N	1	24	12	90	.2	23	5	237	1.54	8	5	ND	1	41	1	2	2	22	1.37	.049	10	13	.40	233	.02	5	.62	.02	.08	1	2	90
L12700E 10375N	2	36	14	136	.2	36	8	411	2.33	13	5	ND	4	66	1	2	2	31	2.61	.075	17	22	.78	412	.02	5	.98	.01	.13	2	5	190
L12700E 10350N	2	35	14	113	.2	30	7	324	2.22	13	5	ND	3	54	1	2	2	30	1.95	.064	16	20	.60	355	.01	6	.92	.01	.11	1	7	430
L12700E 10325N	2	38	15	122	.2	38	9	420	2.41	15	5	ND	4	64	1	2	2	31	2.79	.068	17	22	.74	385	.01	5	1.01	.01	.14	1	2	170
L12700E 10300N	2	38	19	128	.4	38	9	514	2.57	14	5	ND	5	92	1	2	2	35	4.50	.080	18	22	.39	495	.02	3	1.16	.01	.14	1	1	270
L12700E 10275N	2	15	17	102	.2	22	6	234	2.59	11	5	ND	5	19	1	2	2	33	.32	.038	17	21	.40	314	.02	3	1.21	.01	.10	1	1	70
L12700E 10250N	2	16	13	100	.1	20	7	217	2.56	12	5	ND	5	19	1	2	2	33	.30	.039	17	21	.40	325	.02	4	1.19	.01	.10	2	1	60
L12700E 10225N	1	12	15	113	.3	16	6	208	2.20	7	5	ND	6	13	1	2	2	29	.18	.023	15	19	.35	235	.02	2	1.08	.01	.06	1	2	20
L12700E 10200N	1	10	8	71	.2	13	5	151	1.90	6	5	ND	5	15	1	2	2	28	.20	.022	13	15	.30	198	.02	2	.89	.01	.06	1	1	20
L12700E 10175N	2	42	16	116	.3	44	12	717	3.36	16	5	ND	8	28	1	2	2	42	.35	.043	32	27	.48	800	.01	3	1.46	.01	.14	1	4	220
L12700E 10100N	1	13	14	63	.3	14	5	223	1.92	5	5	ND	5	16	1	2	2	24	.27	.025	14	14	.25	243	.02	2	.83	.01	.06	1	1	40
L12700E 10075N	1	14	19	74	.2	14	6	260	2.31	9	5	ND	7	15	1	2	2	29	.24	.022	16	16	.27	256	.01	3	1.07	.01	.06	1	1	60
L12700E 10050N	1	14	14	55	.1	13	5	190	1.97	8	5	ND	7	14	1	2	2	25	.21	.016	20	14	.24	220	.02	2	.87	.01	.08	1	2	30
L12700E 10000N	1	29	9	60	.2	20	5	637	1.26	6	5	ND	1	48	1	2	3	20	.98	.050	15	9	.33	331	.01	3	.63	.03	.05	1	1	120
L12700E 9975N	1	26	9	63	.1	19	6	624	1.19	4	5	ND	1	42	1	2	2	21	.83	.049	14	9	.32	319	.01	4	.59	.02	.05	1	2	50
L12700E 9950N	1	6	2	17	.1	1	2	56	.42	2	5	ND	1	24	1	2	2	10	.44	.026	2	2	.08	77	.02	2	.20	.03	.02	1	1	60
L12700E 9925N	2	14	14	80	.2	14	7	193	2.88	10	5	ND	4	21	1	2	2	35	.29	.034	12	17	.31	205	.01	2	1.24	.01	.06	1	2	40
L12700E 9900N	1	14	17	73	.1	18	8	324	2.24	12	5	ND	4	23	1	2	2	29	.38	.027	17	17	.48	276	.01	4	1.05	.01	.07	2	1	30
L12700E 9875N	1	13	9	59	.4	15	6	471	2.08	5	5	ND	4	27	1	2	2	28	.48	.031	14	17	.66	194	.04	2	1.02	.01	.05	1	1	60
L12700E 9850N	1	14	7	67	.4	16	7	442	2.36	6	5	ND	5	25	1	2	2	32	.46	.031	17	21	.75	226	.05	2	1.23	.01	.06	1	1	20
L12700E 9825N	2	20	14	74	.2	26	10	331	3.96	13	5	ND	5	32	1	3	2	37	.46	.038	25	25	.46	209	.01	3	1.26	.01	.06	1	7	60
L12700E 9800N	1	11	15	63	.3	19	9	275	3.51	7	5	ND	5	22	1	2	2	39	.28	.030	14	25	.53	116	.01	2	1.27	.02	.06	1	5	20
L12700E 9775N	2	23	19	69	.1	36	16	470	4.73	16	5	ND	5	30	1	2	2	52	.37	.032	15	34	.69	180	.01	2	1.80	.01	.08	2	11	30
L12700E 9750N	2	10	15	61	.2	13	6	183	2.80	12	5	ND	5	13	1	2	2	24	.18	.019	14	14	.23	120	.01	2	.81	.01	.06	1	10	40
L12700E 9725N	2	9	16	64	.1	9	5	223	2.28	8	5	ND	6	11	1	2	2	17	.15	.022	17	10	.14	102	.01	3	.51	.01	.06	1	6	30
L12700E 9700N	2	10	20	40	.3	9	5	112	2.35	7	5	ND	5	8	1	2	2	25	.08	.014	12	13	.21	106	.01	2	.95	.01	.04	2	1	20
L12700E 9675N	2	8	13	44	.1	10	5	115	2.17	7	5	ND	4	12	1	2	2	23	.12	.010	11	14	.27	109	.01	2	.88	.01	.04	2	1	30
L12700E 9650N	1	13	18	87	.3	16	6	159	1.98	8	5	ND	6	50	1	2	2	22	.64	.029	37	16	.42	264	.01	2	1.10	.01	.07	1	1	20
L12700E 9625N	1	7	18	58	.4	9	5	415	1.81	5	5	ND	6	17	1	2	2	19	.24	.015	16	10	.17	129	.01	2	.73	.01	.05	1	20	10
L12700E 9600N	1	7	11	41	.3	7	3	149	1.58	5	5	ND	3	10	1	2	2	19	.12	.012	13	9	.14	96	.01	2	.58	.01	.05	1	2	10
L12700E 9550N	1	9	16	55	.2	12	4	154	1.84	8	5	ND	10	12	1	2	2	20	.18	.017	61	14	.32	88	.02	2	.79	.01	.08	1	1	20
L12700E 9525N	2	5	16	72	.2	8	4	286	1.76	9	5	ND	8	10	1	2	2	16	.17	.014	31	11	.19	73	.02	2	.59	.01	.08	1	1	20
L12700E 9500N	1	6	9	53	.2	7	4	275	1.50	7	5	ND	4	9	1	2	2	18	.12	.012	13	8	.11	106	.02	3	.60	.01	.07	1	4	20
STD C/AU-S	18	58	41	132	6.7	68	31	1009	4.14	42	20	8	39	48	18	18	18	57	.48	.092	39	54	.93	172	.06	34	1.96	.06	.13	12	47	1400

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
L12700E 9475N	1	6	10	51	.1	7	3	101	1.58	4	5	ND	4	12	1	2	2	19	.17	.013	15	7	.18	77	.02	2	.59	.01	.07	1	4	5
L12700E 9450N	1	11	19	83	.4	6	3	154	1.67	5	5	ND	5	28	1	2	3	12	.59	.030	21	5	.17	97	.01	2	.49	.01	.10	1	19	10
L12700E 9425N	2	9	16	70	.1	14	5	165	2.16	7	5	ND	6	12	1	2	2	27	.16	.015	21	11	.30	145	.03	2	.76	.01	.09	1	3	5
L12700E 9400N	2	34	10	102	.3	33	8	340	2.60	12	5	ND	4	50	1	2	2	35	1.70	.052	19	20	.62	493	.01	3	1.15	.01	.14	1	4	130
L12750E 10400N	1	31	12	96	.2	36	9	432	2.24	10	5	ND	3	40	1	2	2	33	1.13	.066	17	16	.51	436	.02	5	1.01	.02	.11	1	9	130
L12750E 10375N	1	26	15	107	.2	30	10	432	2.13	8	5	ND	4	31	1	3	2	32	.56	.061	17	16	.40	408	.01	3	.97	.01	.08	1	5	60
L12750E 10350N	2	25	9	108	.1	32	9	348	2.60	9	5	ND	4	41	1	2	2	35	.86	.058	21	18	.60	391	.01	3	1.16	.01	.14	1	10	80
L12750E 10325N	2	45	419	142	.3	41	9	406	2.63	11	5	ND	4	61	1	3	2	33	2.62	.068	19	17	.66	418	.01	5	1.09	.01	.15	1	6	150
L12750E 10300N	2	37	26	124	.4	36	10	427	2.59	11	5	ND	6	74	1	2	2	37	3.03	.082	20	19	.84	482	.01	5	1.21	.01	.15	1	4	140
L12750E 10275N	1	16	23	183	.2	23	9	402	2.56	11	5	ND	6	21	1	2	2	38	.37	.028	20	17	.42	444	.03	4	1.29	.01	.08	1	3	20
L12750E 10250N	1	12	10	149	.2	20	7	276	2.51	6	5	ND	5	16	1	2	2	36	.24	.025	16	16	.35	356	.02	2	1.21	.01	.08	1	1	20
L12750E 10225N	1	10	18	168	.2	22	8	248	2.66	7	5	ND	8	15	1	2	2	37	.22	.025	20	19	.47	324	.03	2	1.38	.01	.09	1	1	20
L12750E 10200N	1	12	10	108	.2	18	7	385	2.02	5	5	ND	5	14	1	2	2	32	.18	.029	15	13	.30	263	.03	3	1.02	.02	.07	1	7	30
L12750E 10175N	2	42	18	106	.2	36	12	617	3.03	13	5	ND	7	27	1	2	2	38	.39	.033	25	18	.40	462	.01	4	1.28	.01	.14	1	3	160
L12750E 10150N	1	33	9	152	.4	26	8	386	2.49	8	5	ND	4	51	1	2	2	34	.64	.057	18	15	.55	546	.01	4	1.26	.02	.12	1	6	70
L12750E 10125N	2	19	22	88	.1	23	8	315	2.76	13	5	ND	9	35	1	4	2	33	.94	.036	27	18	.59	378	.02	2	1.20	.01	.10	1	16	40
L12750E 10100N	2	19	13	84	.1	24	8	372	2.87	12	5	ND	12	22	1	4	2	33	.43	.033	27	17	.49	355	.02	2	1.28	.01	.09	1	27	30
L12750E 10075N	2	13	16	68	.1	16	7	232	2.40	8	5	ND	6	15	1	4	2	32	.22	.026	16	14	.32	253	.02	2	1.07	.01	.07	1	3	20
L12750E 10050N	1	25	9	87	.3	14	4	272	1.30	2	5	ND	1	59	1	2	2	19	1.52	.045	11	7	.30	236	.01	3	.64	.02	.05	1	3	40
L12750E 9975N	1	19	15	85	.1	21	8	336	3.09	9	5	ND	8	27	1	2	2	34	.52	.029	32	16	.42	210	.01	2	1.16	.01	.09	1	5	30
L12750E 9950N	2	18	20	73	.1	23	9	286	3.17	11	5	ND	7	24	1	2	2	32	.39	.048	32	17	.58	241	.02	3	1.09	.01	.08	1	1	40
L12750E 9925N	1	17	16	116	.1	28	10	506	3.31	10	5	ND	7	27	1	2	2	36	.40	.052	36	19	.65	276	.02	3	1.35	.01	.08	1	26	40
L12750E 9900N	1	16	14	89	.1	20	9	521	2.63	8	5	ND	6	25	1	2	2	29	.36	.051	28	15	.45	293	.01	3	1.04	.01	.10	1	5	40
L12750E 9875N	2	19	19	88	.2	23	8	520	2.35	7	5	ND	5	27	1	3	2	28	.65	.054	29	14	.44	226	.01	3	.91	.01	.14	1	2	60
L12750E 9850N	1	19	17	107	.1	19	11	831	3.43	9	5	ND	5	25	1	2	2	39	.35	.065	25	17	.46	261	.01	2	1.41	.01	.13	2	1	10
L12750E 9825N	2	22	19	75	.1	26	7	290	2.72	8	5	ND	9	25	1	3	2	29	.71	.024	39	19	.37	214	.01	4	1.02	.01	.14	1	1	50
L12750E 9800N	2	16	15	67	.1	21	8	207	2.90	7	5	ND	8	20	1	4	2	32	.34	.022	23	16	.34	197	.01	2	1.14	.01	.10	1	1	20
L12750E 9775N	2	16	17	80	.1	21	9	239	3.80	8	5	ND	9	21	1	2	2	35	.30	.027	25	18	.45	150	.01	2	1.33	.01	.13	1	1	20
L12750E 9750N	2	12	15	58	.2	11	5	225	2.34	3	7	ND	7	15	1	2	2	16	.18	.014	16	9	.19	78	.01	2	.53	.01	.08	1	1	20
L12750E 9725N	1	6	14	55	.1	6	3	204	1.63	3	5	ND	7	9	1	2	2	13	.14	.012	23	5	.12	83	.01	2	.53	.01	.08	1	3	10
L12750E 9525N	2	6	18	78	.1	4	3	140	1.89	5	5	ND	8	9	1	2	2	13	.18	.014	35	6	.12	81	.01	2	.58	.01	.09	1	1	10
L12750E 9500N	2	5	16	79	.1	7	4	125	2.18	10	5	ND	6	7	1	2	2	17	.15	.013	15	9	.13	55	.02	3	.51	.01	.08	1	2	10
L12750E 9475N	1	6	9	45	.1	8	3	116	1.57	5	5	ND	4	9	1	2	2	18	.14	.007	13	9	.15	76	.02	2	.50	.01	.07	1	1	5
L12750E 9450N	2	8	16	63	.1	8	4	331	2.02	5	5	ND	3	12	1	2	2	20	.20	.018	13	7	.15	121	.01	3	.67	.01	.07	1	1	10
L12750E 9425N	1	6	9	41	.2	5	3	77	1.40	2	5	ND	4	13	1	2	2	22	.13	.012	10	6	.07	302	.02	2	.38	.02	.05	1	1	10
L12750E 9400N	1	6	14	49	.1	11	4	145	1.94	7	5	ND	5	10	1	2	2	24	.12	.009	18	11	.21	94	.03	2	.67	.01	.06	2	1	70
STD C/AU-S	18	59	42	132	6.9	70	31	1019	4.24	42	18	8	40	48	18	18	18	59	.49	.092	40	53	.95	173	.07	34	1.98	.06	.13	13	51	1400

APPENDIX IV

CLAIM STATUS

NORANDA EXPLORATION COMPANY, LIMITED - CORDILLERA DIVISION
File: GREW
Report: PROPERTY STATUS

Property	NTS	.	Claim Name		R/P	Record	TY	UN	Rec Date	DUE	A	Owner	B/S Date	M/D	Record Year	Group Name	Group Date	Area	Status	Proj #	Numonic
GREW CREEK - CARLOS OPTION	105K02	*	CANYON	1	YA	075717	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C	3332	GREWCK
	105K02	*	CANYON	2	YA	075718	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	3	YA	075719	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	4	YA	075720	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	5	YA	075721	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	6	YA	075722	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02	*	CANYON	7	YA	075723	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02	*	CANYON	8	YA	075724	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	9	YA	075725	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	10	YA	075726	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	11	YA	075727	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	12	YA	075728	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	13	YA	075729	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	14	YA	075730	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	15	YA	075731	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	16	YA	075732	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	17	YA	075733	TP	1	Jan 4	1997	N	NOREX	Jun 11 87	WHIT	1983			20.90	C		GREWCK
	105K02		CANYON	18	YA	075734	TP	1	Jan 4	1997	N	NOREX	Jun 11 87	WHIT	1983			20.90	C		GREWCK
	105K02		CANYON	19	YA	075735	TP	1	Jan 4	1997	N	NOREX	Jun 11 87	WHIT	1983			20.90	C		GREWCK
	105K02		CANYON	20	YA	075736	TP	1	Jan 4	1997	N	NOREX	Jun 11 87	WHIT	1983			20.90	C		GREWCK
	105K02		CANYON	21	YA	075737	TP	1	Jan 4	1997	N	NOREX	Jun 11 87	WHIT	1983			20.90	C		GREWCK
	105K02		CANYON	22	YA	075738	TP	1	Jan 4	1997	N	NOREX	Jun 11 87	WHIT	1983			20.90	C		GREWCK
	105K02		CANYON	23	YA	075739	TP	1	Jan 4	1997	N	NOREX	Jun 11 87	WHIT	1983			20.90	C		GREWCK
	105K02		CANYON	24	YA	075740	TP	1	Jan 4	1997	N	NOREX	Jun 11 87	WHIT	1983			20.90	C		GREWCK
	105K02	*	CANYON	25	YA	075741	TP	1	Jan 4	1997	N	NOREX	Jun 11 87	WHIT	1983			20.90	C		GREWCK
	105K02		CANYON	26	YA	075742	TP	1	Jan 4	1997	N	NOREX	Jun 11 87	WHIT	1983			20.90	C		GREWCK
	105K02	*	CANYON	27	YA	075743	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	28	YA	075744	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	29	YA	075745	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	30	YA	075746	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	31	YA	075747	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	32	YA	075748	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	33	YA	075753	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	34	YA	075754	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	35	YA	075755	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	36	YA	075756	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9203 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	37	YA	075757	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	38	YA	075758	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	39	YA	075759	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	40	YA	075760	TP	1	Jan 4	2001	N	NOREX	Jun 11 87	WHIT	1983	9202 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	41	YA	081160	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	42	YA	081161	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	43	YA	081162	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	44	YA	081163	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	45	YA	081164	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	46	YA	081165	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	47	YA	081166	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	48	YA	081167	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	49	YA	081168	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	50	YA	081169	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	51	YA	081170	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	52	YA	081171	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON	53	YA	081172	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK

NORANDA EXPLORATION COMPANY, LIMITED - CORDILLERA DIVISION
File: GREW
Report: PROPERTY STATUS

Property	NTS	Claim Name	R/P	Record	TY	UN	Rec Date	DUE	A	Owner	B/S Date	M/D	Record Year	Group Name	Group Date	Area	Status	Proj #	Numonic
GREW CREEK - CARLOS OPTION	105K02	CANYON 54	YA	081173	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C	3332	GREWCK
	105K02	CANYON 55	YA	081174	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 56	YA	081175	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 57	YA	081176	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 58	YA	081177	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 59	YA	081178	TP	1	Jan 4	1996	N	NOREX	Jun 11 87	WHIT	1984	9197 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 60	YA	081179	TP	1	Jan 4	1996	N	NOREX	Jun 11 87	WHIT	1984	9197 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 61	YA	081180	TP	1	Jan 4	1996	N	NOREX	Jun 11 87	WHIT	1984	9197 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 62	YA	081181	TP	1	Jan 4	1996	N	NOREX	Jun 11 87	WHIT	1984	9197 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 63	YA	081182	TP	1	Jan 4	1996	N	NOREX	Jun 11 87	WHIT	1984	9197 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 64	YA	081183	TP	1	Jan 4	1996	N	NOREX	Jun 11 87	WHIT	1984	9197 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 65	YA	081184	TP	1	Jan 4	1996	N	NOREX	Jun 11 87	WHIT	1984	9197 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 66	YA	081185	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9194 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 67	YA	081186	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9194 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 68	YA	081187	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9194 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 69	YA	081188	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9194 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 70	YA	081189	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9194 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 71	YA	081190	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9194 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 72	YA	081191	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9194 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 73	YA	081192	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 74	YA	081193	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 75	YA	081194	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 76	YA	081195	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 77	YA	081196	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 78	YA	081197	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9195 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 79	YA	081198	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 80	YA	081199	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 81	YA	081200	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 82	YA	081201	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 83	YA	081202	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 84	YA	081203	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 85	YA	081204	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 86	YA	081205	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9196 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 87	YA	081206	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9198 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 88	YA	081207	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9198 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 89	YA	081208	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9198 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 90	YA	081209	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9198 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 91	YA	081210	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9198 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 92	YA	081211	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9198 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 93	YA	081212	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9198 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 94	YA	081213	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9198 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 95	YA	081214	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9198 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 96	YA	081215	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9198 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 98	YA	081217	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9194 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 100	YA	081219	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9194 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 102	YA	081211	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9193 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 104	YA	081223	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9193 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 216	YA	081335	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 218	YA	081337	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 219	YA	081338	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 220	YA	081339	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 221	YA	081340	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02	CANYON 222	YA	081341	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK

Property	NTS	.	Claim Name	R/P	Record	TY	UN	Rec Date	DUE	A	Owner	B/S Date	M/D	Record Year	Group Name	Group Date	Area	Status	Proj #	Numonic
GREW CREEK - CARLOS OPTION	105K02		CANYON 293	YA	085398	TP	1	Jan 4	1994	N	NOREX	Jun 11 87	WHIT	1984			20.90	C	3332	GREWCK
	105K02		CANYON 294	YA	085399	TP	1	Jan 4	1994	N	NOREX	Jun 11 87	WHIT	1984			20.90	C		GREWCK
	105K02		CANYON 295	YA	085400	TP	1	Jan 4	1994	N	NOREX	Jun 11 87	WHIT	1984			20.90	C		GREWCK
	105K02		CANYON 296	YA	085401	TP	1	Jan 4	1994	N	NOREX	Jun 11 87	WHIT	1984			20.90	C		GREWCK
	105K02		CANYON 297	YA	085402	TP	1	Jan 4	1994	N	NOREX	Jun 11 87	WHIT	1984			20.90	C		GREWCK
	105K02		CANYON 298	YA	085403	TP	1	Jan 4	1994	N	NOREX	Jun 11 87	WHIT	1984			20.90	C		GREWCK
	105K02		CANYON 299	YA	085404	TP	1	Jan 4	1994	N	NOREX	Jun 11 87	WHIT	1984			20.90	C		GREWCK
	105K02		CANYON 300	YA	085405	TP	1	Jan 4	1994	N	NOREX	Jun 11 87	WHIT	1984			20.90	C		GREWCK
	105K02		CANYON 301	YA	085406	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 302	YA	085407	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 303	YA	085408	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 304	YA	085409	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 305	YA	085410	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 306	YA	085411	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 307	YA	085412	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 308	YA	085413	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 311	YA	085416	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 312	YA	085417	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 313	YA	085418	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 314	YA	085419	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 315	YA	085420	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 316	YA	085421	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9192 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 317	YA	085422	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 318	YA	085423	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 319	YA	085424	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 320	YA	085425	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9186 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 321	YA	092106	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9193 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 322	YA	092107	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9193 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 323	YA	092108	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9193 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 324	YA	092109	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9193 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 325	YA	092110	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9193 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 326	YA	092111	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9193 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 327	YA	092112	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9193 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 328	YA	092113	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9193 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 329	YA	092114	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9187 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 330	YA	092115	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9187 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 331	YA	092116	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9187 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 332	YA	092117	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9187 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 333	YA	092118	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9187 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 334	YA	092119	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9187 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 335	YA	092120	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9187 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 336	YA	092121	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9187 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 337	YA	092122	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9187 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 338	YA	092123	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1985	9187 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 339	YA	092124	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985	9188 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 340	YA	092125	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985	9188 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 341	YA	092126	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985	9188 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 342	YA	092127	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985	9188 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 343	YA	092128	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985	9188 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 344	YA	092129	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985	9188 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 345	YA	092130	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985	9188 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 346	YA	092131	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985	9188 Q	Dec 21 87	20.90	C		GREWCK
	105K02		CANYON 347	YA	092132	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985	9188 Q	Dec 21 87	20.90	C		GREWCK

NORANDA EXPLORATION COMPANY, LIMITED - CORDILLERA DIVISION
File: GREW
Report: PROPERTY STATUS

Property	NTS	Claim Name	R/P	Record	TY	UN	Rec Date	DUE	A	Owner	B/S Date	M/D	Record Year	Group Name	Group Date	Area	Status	Proj #	Mnemonic
GREW CREEK - CARLOS OPTION	105K02	CANYON 348	YA	092133	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985			20.90	C	3332	GREWCK
	105K02	CANYON 349	YA	092134	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985			20.90	C		GREWCK
	105K02	CANYON 350	YA	092135	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985			20.90	C		GREWCK
	105K02	CANYON 351	YA	092136	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985			20.90	C		GREWCK
	105K02	CANYON 352	YA	092137	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985			20.90	C		GREWCK
	105K02	CANYON 353	YA	092138	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985			20.90	C		GREWCK
	105K02	CANYON 354	YA	092139	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985			20.90	C		GREWCK
	105K02	CANYON 355	YA	092140	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985			20.90	C		GREWCK
	105K02	CANYON 356	YA	092141	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1985			20.90	C		GREWCK
	105K02	GRAND 1	YA	081848	TP	1	Jan 4	1991	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 2	YA	081849	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 3	YA	081850	TP	1	Jan 4	1991	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 4	YA	081851	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 5	YA	081852	TP	1	Jan 4	1991	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 6	YA	081853	TP	1	Jan 4	1991	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 7	YA	081854	TP	1	Jan 4	1991	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 8	YA	081855	TP	1	Jan 4	1991	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 9	YA	081856	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 10	YA	081857	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 11	YA	081858	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 12	YA	081859	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 13	YA	081860	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 14	YA	081861	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 15	YA	081862	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 16	YA	081863	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 17	YA	081864	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 18	YA	081865	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 19	YA	081866	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 20	YA	081867	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 21	YA	081868	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 22	YA	081869	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 23	YA	081870	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 24	YA	081871	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 25	YA	081872	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 26	YA	081873	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 27	YA	081874	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 28	YA	081875	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9190 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 29	YA	081876	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 30	YA	081877	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 31	YA	081878	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 32	YA	081879	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 33	YA	081880	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 34	YA	081881	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 35	YA	081882	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 36	YA	081883	TP	1	Jan 4	1989	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 37	YA	081884	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 38	YA	081885	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 39	YA	081886	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 40	YA	081887	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9191 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 41	YA	081888	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 42	YA	081889	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 43	YA	081890	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 44	YA	081891	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C		GREWCK

NORANDA EXPLORATION COMPANY, LIMITED - CORDILLERA DIVISION
File: GREW
Report: PROPERTY STATUS

Property	NTS	Claim Name	R/P	Record	TY	UN	Rec Date	DUE	A	Owner	B/S Date	M/D	Record Year	Group Name	Group Date	Area	Status	Proj #	Numonic
GREW CREEK - CARLOS OPTION	105K02	GRAND 45	YA	081892	TP	1	Jan 4	1990	N	NOREX	Jun 11 87	WHIT	1984	9189 Q	Dec 21 87	20.90	C	3332	GREWCK
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	105K02	GRAND 49	YA	085284	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1162 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 50	YA	085285	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1162 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 51	YA	085286	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1162 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 52	YA	085287	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1162 Q	Sep 2 87	20.90	C		GREWCK
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	105K02	GRAND 56	YA	085291	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1161 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 57	YA	085292	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1161 Q	Sep 2 87	20.90	C		GREWCK
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	105K02	GRAND 60	YA	085295	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1161 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 61	YA	085296	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 62	YA	085297	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 63	YA	085298	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 64	YA	085299	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 65	YA	085300	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 66	YA	085301	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 67	YA	085302	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 68	YA	085303	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 69	YA	085304	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 70	YA	085305	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 71	YA	085306	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1165 Q	Sep 2 87	20.90	C		GREWCK
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	105K02	GRAND 74	YA	085309	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1165 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 75	YA	085310	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1166 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 76	YA	085311	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1166 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 77	YA	085312	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1166 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 78	YA	085313	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1166 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 79	YA	085314	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1166 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 80	YA	085315	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1166 Q	Sep 2 87	20.90	C		GREWCK
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	105K02	GRAND 83	YA	085318	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9201 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 84	YA	085319	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9201 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 85	YA	085320	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9201 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 86	YA	085321	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9201 Q	Dec 21 87	20.90	C		GREWCK
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	105K02	GRAND 88	YA	085323	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 89	YA	085324	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 90	YA	085325	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 91	YA	085326	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 92	YA	085327	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 93	YA	085328	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 94	YA	085329	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 95	YA	085330	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 96	YA	085331	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 97	YA	085332	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C		GREWCK

NORANDA EXPLORATION COMPANY, LIMITED - CORDILLERA DIVISION
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GREW CREEK - CARLOS OPTION	105K02	GRAND 98	YA	085333	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9199 Q	Dec 21 87	20.90	C	3332	GREWCK
	105K02	GRAND 99	YA	085334	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1162 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 100	YA	085335	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1162 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 101	YA	085336	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1162 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 102	YA	085337	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1162 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 103	YA	085338	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1161 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 104	YA	085339	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1161 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 105	YA	085340	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1161 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 106	YA	085341	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1161 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 107	YA	085342	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1161 Q	Sep 2 87	20.90	C		GREWCK
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	105K02	GRAND 109	YA	085344	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1161 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 110	YA	085345	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1161 Q	Sep 2 87	20.90	C		GREWCK
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	105K02	GRAND 112	YA	085347	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
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	105K02	GRAND 115	YA	085350	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 116	YA	085351	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 117	YA	085352	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 118	YA	085353	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 119	YA	085354	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 120	YA	085355	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 121	YA	085356	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1165 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 122	YA	085357	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1165 Q	Sep 2 87	20.90	C		GREWCK
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	105K02	GRAND 133	YA	085368	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9201 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 134	YA	085369	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9201 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 135	YA	085370	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9201 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 136	YA	085371	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9201 Q	Dec 21 87	20.90	C		GREWCK
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	105K02	GRAND 138	YA	085373	TP	1	Jan 4	1992	N	NOREX	Jun 11 87	WHIT	1984	9201 Q	Dec 21 87	20.90	C		GREWCK
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	105K02	GRAND 142	YA	085377	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9200 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 143	YA	085378	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9200 Q	Dec 21 87	20.90	C		GREWCK
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	105K02	GRAND 145	YA	085380	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9200 Q	Dec 21 87	20.90	C		GREWCK
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	105K02	GRAND 147	YA	085382	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9200 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 148	YA	085383	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9200 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 149	YA	085384	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1165 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 150	YA	085385	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1165 Q	Sep 2 87	20.90	C		GREWCK

NORANDA EXPLORATION COMPANY, LIMITED - CORDILLERA DIVISION
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Property	NTS	. Claim Name	R/P	Record	TY	UN	Rec Date	DUE	A	Owner	B/S Date	M/D	Record Year	Group Name	Group Date	Area	Status	Proj #	Mnemonic
GREW CREEK - CARLOS OPTION	105K02	GRAND 151	YA	085386	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C	3332	GREWCK
	105K02	GRAND 152	YA	085387	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 153	YA	085388	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 154	YA	085389	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1164 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 155	YA	085390	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 156	YA	085391	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 157	YA	085392	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 158	YA	085393	TP	1	Sep 6	1991	N	NOREX	Jun 11 87	WHIT	1984	1163 Q	Sep 2 87	20.90	C		GREWCK
	105K02	GRAND 159	YA	085394	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9200 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 160	YA	085395	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9200 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 161	YA	085396	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9200 Q	Dec 21 87	20.90	C		GREWCK
	105K02	GRAND 162	YA	085397	TP	1	Jan 4	1995	N	NOREX	Jun 11 87	WHIT	1984	9200 Q	Dec 21 87	20.90	C		GREWCK

APPENDIX V

SAMPLING AND ANALYTICAL PROCEDURES

APPENDIX V

Sampling and Analytical Procedures

Drill Core: All core was split on site with half being stored on the property and the other half being shipped for analysis. Samples were shipped first to Bondar-Clegg in Whitehorse for lab preparation. Rejects were returned to the property and pulps were shipped to Vancouver where a 1 assay ton sample was analysed by fire assay with an atomic absorbtion finish for gold (lower detection limit: 0.07gmt) and for silver (lower detection limit: 0.7gmt). The pulps were then sent to Acme Labs in Vancouver for standard ICP analysis for iron and arsenic using a hot HCL-HNO3 extraction. Mercury analysis was by flameless atomic absorbtion.

Most sample intervals were 1.5 metres.

Soil Geochemistry: Samples of till were taken below the surface organic rich layer and placed in paper craft bags. These were then shipped to Acme Analytical Laboratories Ltd. in Vancouver. Standard 30 element ICP was run on a hot HCL-HNO3 extraction. In addition, gold analysis was done by acid leach atomic absorbtion and mercury analysis by flameless atomic absorbtion.

PELLY RIVER

Quarrying Leases
BOBCAT 4

Robert Campbell Highway

Glenn Creek

Buttle Creek

62° 05'
105 K 2
105 K 3
133° 00'

62° 00'
105 K 2
105 F 15
132° 50'

GRAND 1-162
YA 81648 - YA 81929
YA 85294 - YA 85397

TAR - ERN - HELL
YA 75749 - YA 75752
YA 75778 - YA 75799

KEY 1-16
YA 24412 - YA 24427

PUG 1-52
YA 8744 - YA 8767
YA 50971 - YA 50998

- ☐ January 4, 2005
- ☐ January 4, 2001
- ☐ January 4, 1995
- ☐ January 4, 1992
- ☐ January 4, 1991
- ☐ January 4, 1990
- ☐
- ☐

NORANDA EXPLORATION CO. LTD.

CANYON CLAIMS
LOCATION PLAN
WHITEHORSE MINING DISTRICT

943

DRAWN BY: R.S.	DATE: NOV. 1988	FIGURE: 6
REVISED BY: 092634	SCALE: lin. = 1/2 mile; Feet 0 1000 3000 5000	

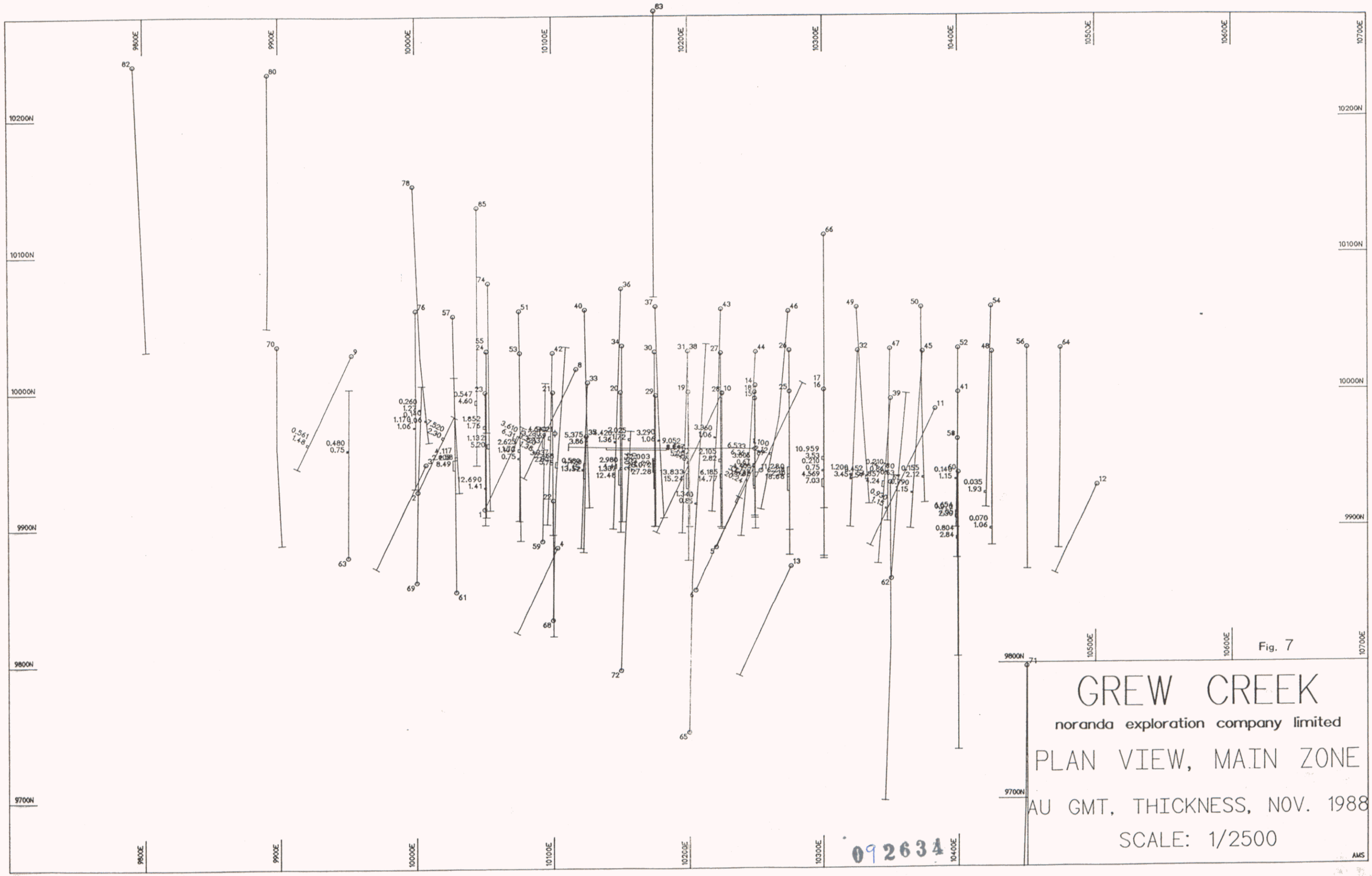


Fig. 7

GREW CREEK

noranda exploration company limited

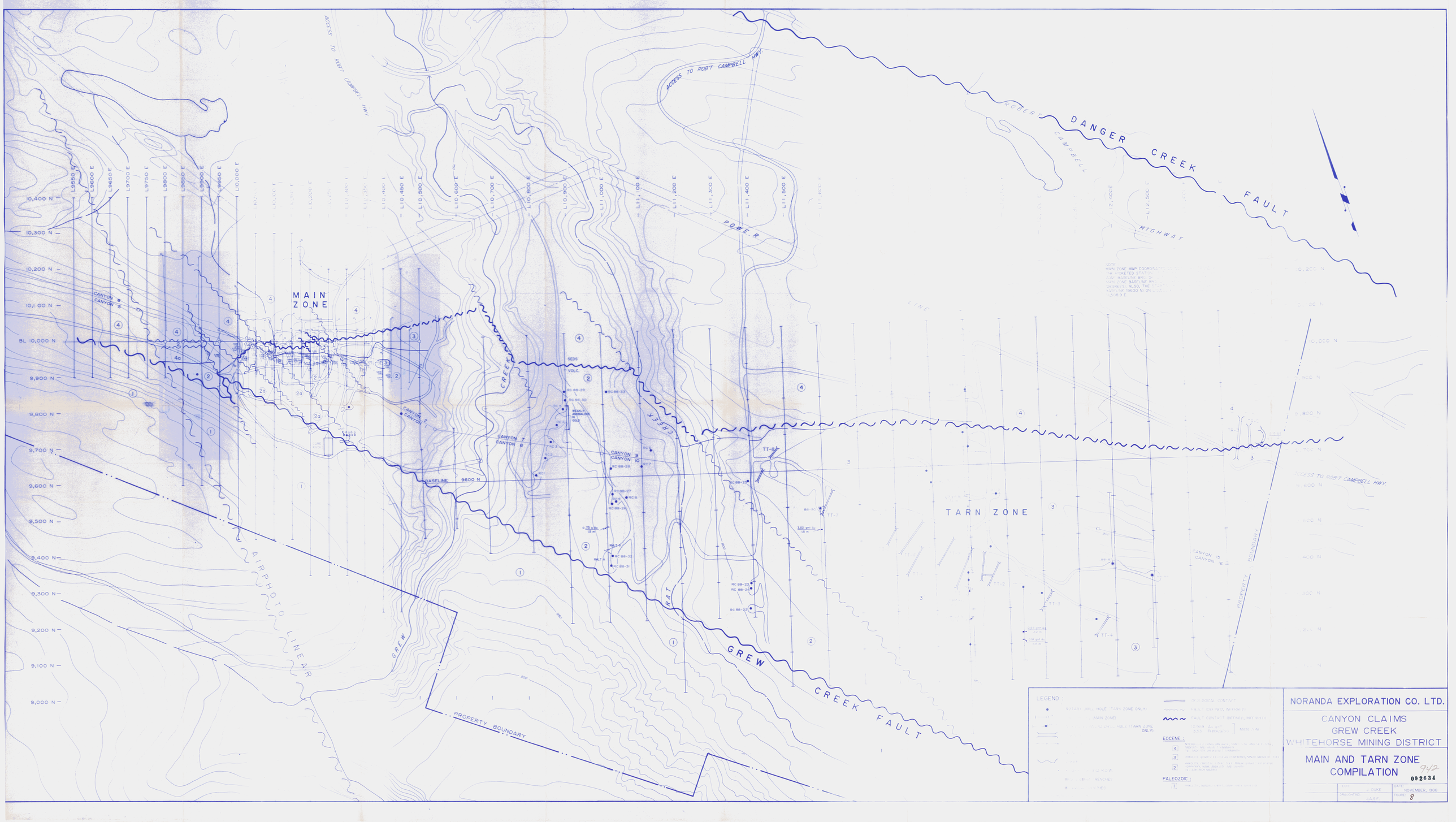
PLAN VIEW, MAIN ZONE

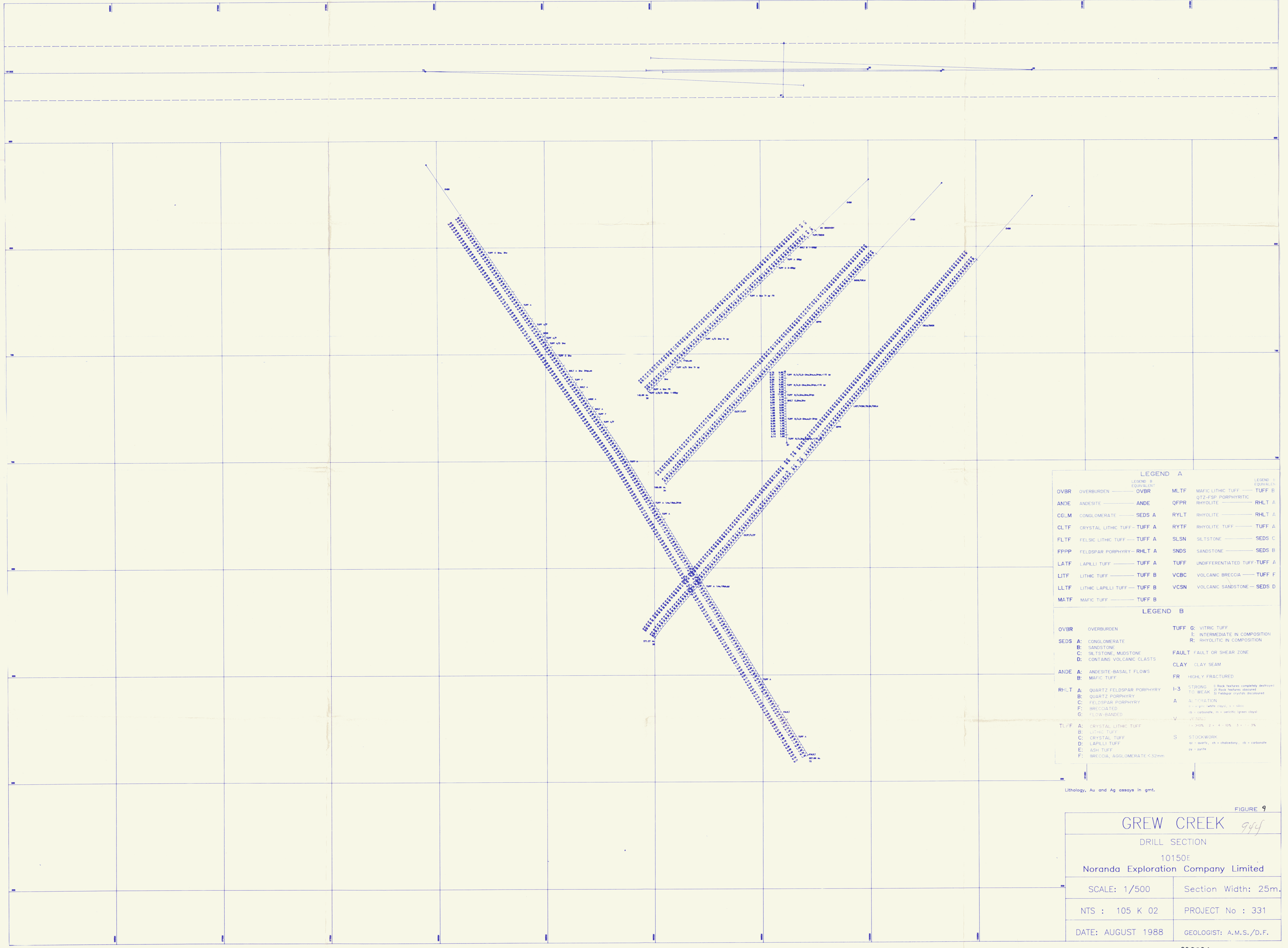
AU GMT, THICKNESS, NOV. 1988

SCALE: 1/2500

092634

AMS


MAIN ZONE
TARN ZONE
DANGER CREEK FAULT
GREW CREEK FAULT
ACCESS TO ROBT CAMPBELL HWY.
AIRPHOTO LINEAR
PROPERTY BOUNDARY
BASELINE 9600 N
CANYON 5
CANYON 6
CANYON 7
CANYON 8
CANYON 9
CANYON 10
CANYON 15
CANYON 16
L9550 E
L9600 E
L9650 E
L9700 E
L9750 E
L9800 E
L9850 E
L9900 E
L9950 E
L10,000 E
L10,400 E
L10,450 E
L10,500 E
L10,600 E
L10,700 E
L10,800 E
L10,900 E
L11,000 E
L11,100 E
L11,200 E
L11,300 E
L11,400 E
L11,500 E
L12,400E
L12,500 E
10,400 N
10,300 N
10,200 N
10,100 N
BL 10,000 N
9,900 N
9,800 N
9,700 N
9,600 N
9,500 N
9,400 N
9,300 N
9,200 N
9,100 N
9,000 N
RC 88-29
RC 88-30
RC 88-33
RC 88-26
RC 88-27
RC 88-28
RC 88-32
RC 88-31
RC 88-23
RC 88-24
RC 88-25
TT-1
TT-2
TT-3
TT-4
TT-5
TT-6
TT-7
TT-8
SEDS
VOLC
WEAKLY ANOMALOUS IN GOLD
HALT A
HALT 4
LEGEND :
EOCENE :
PALEOZOIC :
NORANDA EXPLORATION CO. LTD.
CANYON CLAIMS
GREW CREEK
WHITEHORSE MINING DISTRICT
MAIN AND TARN ZONE COMPILATION
942
092634
J. DUKE
NOVEMBER, 1988
8



LEGEND A

		LEGEND B EQUIVALENT			LEGEND B EQUIVALENT
OVBR	OVERBURDEN	OVBR	MLTF	MAFIC LITHIC TUFF	TUFF B
ANDE	ANDESITE	ANDE	QFPR	QTZ-FSP PORPHYRITIC RHYOLITE	RHLT A
CGLM	CONGLOMERATE	SEDS A	RYLT	RHYOLITE	RHLT A
CLTF	CRYSTAL LITHIC TUFF	TUFF A	RYTF	RHYOLITE TUFF	TUFF A
FLTF	FELSIC LITHIC TUFF	TUFF A	SLSN	SILTSTONE	SEDS C
FPPP	FELDSPAR PORPHYRY	RHLT A	SNDS	SANDSTONE	SEDS B
LATF	LAPILLI TUFF	TUFF A	TUFF	UNDIFFERENTIATED TUFF	TUFF A
LITF	LITHIC TUFF	TUFF B	VCBC	VOLCANIC BRECCIA	TUFF F
LLTF	LITHIC LAPILLI TUFF	TUFF B	VCSN	VOLCANIC SANDSTONE	SEDS D
MATF	MAFIC TUFF	TUFF B			

LEGEND B

OVBR OVERBURDEN

SEDS
- **A:** CONGLOMERATE
- **B:** SANDSTONE
- **C:** SILTSTONE, MUDSTONE
- **D:** CONTAINS VOLCANIC CLASTS

ANDE
- **A:** ANDESITE-BASALT FLOWS
- **B:** MAFIC TUFF

RHLT
- **A:** QUARTZ FELDSPAR PORPHYRY
- **B:** QUARTZ PORPHYRY
- **C:** FELDSPAR PORPHYRY
- **F:** BRECCIATED
- **G:** FLOW-BANDED

TUFF
- **A:** CRYSTAL LITHIC TUFF
- **B:** LITHIC TUFF
- **C:** CRYSTAL TUFF
- **D:** LAPILLI TUFF
- **E:** ASH TUFF
- **F:** BRECCIA, AGGLOMERATE <.32mm

TUFF
- **G:** VITRIC TUFF
- **I:** INTERMEDIATE IN COMPOSITION
- **R:** RHYOLITIC IN COMPOSITION

FAULT FAULT OR SHEAR ZONE

CLAY CLAY SEAM

FR HIGHLY FRACTURED

I-3 STRONG TO WEAK — 0 Rock textures completely destroyed; 2) Rock textures obscured; 3) Feldspar crystals discoloured

A ALTERATION — s = pink white clay(s), k = silicic, cb = carbonate, m = sericitic (green clay(s))

V VEINING — 1 = >10%, 2 = 4 - 10%, 3 = 1 - 3%

S STOCKWORK — qz = quartz, ch = chalcedony, cb = carbonate, py = pyrite

Lithology, Au and Ag assays in gmt.

FIGURE 9

GREW CREEK

DRILL SECTION

10150E

Noranda Exploration Company Limited

SCALE: 1/500	Section Width: 25m.
NTS : 105 K 02	PROJECT No : 331
DATE: AUGUST 1988	GEOLOGIST: A.M.S./D.F.

092634

LITHOLOGY, Au and Ag in gmt

FIGURE 10

GREW CREEK 092G34

DRILL SECTION

12000 E, SOUTH 94/9

Noranda Exploration Company Limited

SCALE: 1/500	DDH 73, 75, 84
NTS : 105 K 02	PROJECT No : 331
DATE: NOV. 1988	GEOLOGIST: A.M.S.

LEGEND B

OVBR OVERBURDEN

SEDS A: CONGLOMERATE
B: SANDSTONE
C: SILTSTONE, MUDSTONE
D: CONTAINS VOLCANIC CLASTS

ANDE A: ANDESITE-BASALT FLOWS
B: MAFIC TUFF

RHLT A: QUARTZ FELDSPAR PORPHYRY
B: QUARTZ PORPHYRY
C: FELDSPAR PORPHYRY
F: BRECCIATED
G: FLOW-BANDED

TUFF A: CRYSTAL LITHIC TUFF
B: LITHIC TUFF
C: CRYSTAL TUFF
D: LAPILLI TUFF
E: ASH TUFF
F: BRECCIA, AGGLOMERATE < 32mm

TUFF G: VITRIC TUFF
I: INTERMEDIATE IN COMPOSITION
R: RHYOLITIC IN COMPOSITION

FAULT FAULT OR SHEAR ZONE

CLAY CLAY SEAM

FR HIGHLY FRACTURED

I-3 STRONG TO WEAK 1) Rock textures completely destroyed 2) Rock textures obscured 3) Feldspar crystals discoloured

A ALTERATION
ri = Argillic (white clays), s = silicic
cb = carbonate, m = sericitic (green clays)

V VEINING
1 = >10% 2 = 4 - 10% 3 = 1 - 3%

S STOCKWORK
qz = quartz, ch = chalcedony, cb = carbonate
py = pyrite

L10000 N

BASELINE IS AT 9600 N

BEARING 107°

L11000 E

L11500 E

L12000 E

L12500 E

L12700 E

Contour Interval : > 10 ppb
: > 20 ppb
> 40 ppb
> 100 ppb

1m 25m 0m 50m 100m

945

TARN 092634

GEOCHEMICAL SURVEY

PPB Au

PROJECT: GREW CREEK PROJECT # : 331

BASELINE AZIMUTH : 107 Deg.

SCALE = 1: 2500 DATE : 9/ 9/87

SURVEY BY : J HELSEN NTS : 105K02

FILE: C331TAR

NORANDA EXPLORATION FIGURE 11a

L10000 N

BASELINE IS AT 9600 N

BEARING 107°

L11000 E

L11500 E

L12000 E

L12500 E

L12700 E

Contour Interval : >0.4

50m 25m 0m 50m 100m

948

TARN 092634

GEOCHEMICAL SURVEY

PPM Ag

PROJECT: GREW CREEK PROJECT # : 331

BASELINE AZIMUTH : 107 Deg.

SCALE = 1: 2500 DATE : 9/ 9/87

SURVEY BY : J HELSEN NTS : 105K02

FILE: C331TAR

NORANDA EXPLORATION FIGURE 11b

L10000 N

BASELINE IS AT 9600 N

BEARING 107°

L11000 E

L11500 E

L12000 E

L12500 E

L12700 E

Contour Interval : > 20
: > 50

50m 25m 0m 50m 100m

947

TARN 092834

GEOCHEMICAL SURVEY

PPM As

PROJECT: GREW CREEK PROJECT # : 331

BASELINE AZIMUTH : 107 Deg.

SCALE = 1: 2500 DATE : 9/ 9/87

SURVEY BY : J HELSEN NTS : 105K02

FILE: C331TAR

NORANDA EXPLORATION FIGURE 11c

L10000 N

BASELINE IS AT 9600 N

BEARING 107°

L11000 E

L11500 E

L12000 E

L12500 E

L12700 E

Contour Interval : > 100
: > 200

50m 25m 0m 50m 100m

946

TARN 092634

GEOCHEMICAL SURVEY

PPB Hg

PROJECT: GREW CREEK PROJECT # : 331

BASELINE AZIMUTH : 107 Deg.

SCALE = 1: 2500 DATE : 9/ 9/87

SURVEY BY : J HELSEN NTS : 105K02

FILE: C331TAR

NORANDA EXPLORATION FIGURE 11d