GEOLOGICAL and GEOCHEMICAL

REPORT ON THE

GIG PROPERTY

(GIG 1 - 4 CLAIMS)

N.T.S. 104 G/02

LIARD MINING DIVISION

Situated at coordinates: 57° 04' N
130° 43' W

NORANDA EXPLORATION COMPANY, LIMITED
(NO PERSONAL LIABILITY)

by Robert Baerg
Trevor East

October, 1991

TABLE OF CONTENTS

1.0	SUMMARY	1
2.0	INTRODUCTION	2
3.0	HISTORY	2
4.0	LOCATION AND ACCESS	2
5.0	PHYSIOGRAPHY & VEGETATION	2
6.0	CLAIM STATISTICS	2
7.0	REGIONAL GEOLOGY	3
8.0	FIELD PROGRAM	4
	8.1 PROPERTY GEOLOGY	4
	8.2 MINERALIZATION	4
	8.3 GEOCHEMISTRY	4
	8.4 GEOPHYSICS	5
9.0	CONCLUSIONS	6
10.0	RECOMMENDATIONS	6
11.0	BIBLIOGRAPHY	7

Appendix I	Summary Cost Statement
Appendix II	Statement of Qualifications
Appendix III	Analytical Procedure
Appendix IV	Sample Descriptions/Analyses
Appendix V	AEM (Aerodat) Survey Report

LIST OF FIGURES

Figure 1	Location Map	1:8,000,000
Figure 2	Claim Map	1:100,000
Figure 3	Property Geology	1:10,000

1.0 Summary

The Gig claims were optioned from Santa Marina Gold Ltd./ Koala Resources Ltd. in August 1990. There is no history of work prior to 1990. From June to August 1991 a program of reconnaissance geological mapping, soil, silt, rock and pan sampling was completed on the property.

Approximately 80% of the property is underlain by Jurassic quartz-feldspar porphyry granite with the remainder underlain by Permian metavolcanics and sediments; diabase dykes crosscut the granite.

Sulphide mineralization on the property consists of:
1) disseminated pyrite in the intrusive and Permian rocks
2) poddy galena, sphalerite and chalcopyrite in narrow altered shear zones and
3) massive pyrite with chalcopyrite and sphalerite in float cobbles on the Demon 1 claim.

Sampling programs failed to identify any new anomalous areas which warrant further followup.

2.0 Introduction:

The Gig property was optioned from Santa Marina Gold Ltd./ Koala Resources Ltd. in August of 1990. The property has no previous exploration history prior to 1990. 1991 field programs on the property consisted of reconnaissance geological mapping, prospecting, soil, rock, silt and heavy mineral sampling.

3.0 Location & Access:

The Gig property is located along the More Creek valley 15 km west of Highway #37 and Bob Quinn Lake. Access is via helicopter from Bob Quinn Lake where Vancouver Island Helicopters has a permanent base.

4.0 History:

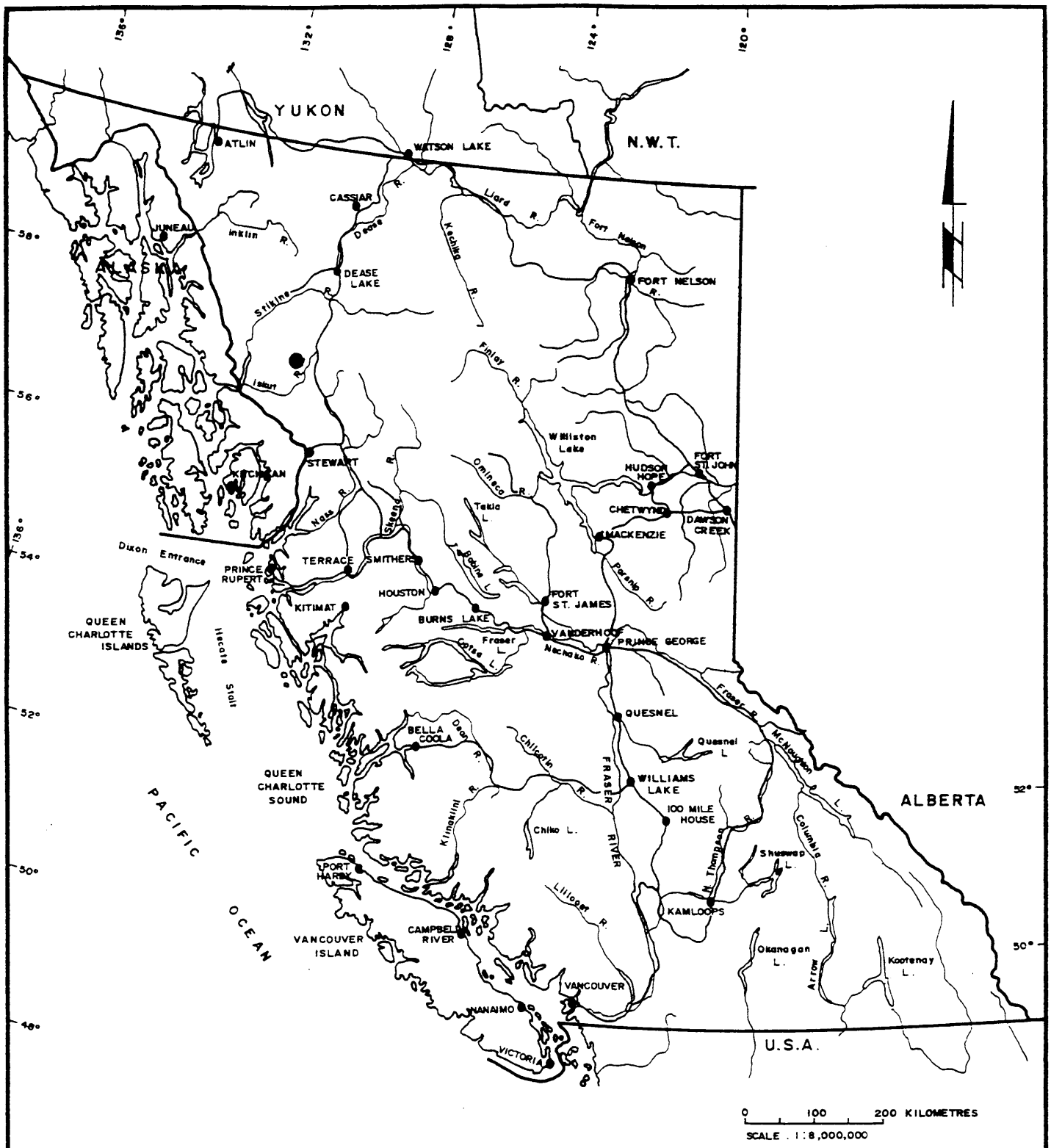
Although there has been considerable work done in the surrounding area over the past few years no work has been reported on the area covered by the Gig claims prior to 1990.

5.0 Physiography & Vegetation:

The area along the More Creek valley is one of high relief, ranging from the flat outwash plains in the valley bottom to high rugged ridges. Elevations range from 610 to 1860 meters. Slopes generally range from 20 to 45 degrees with local steeper sections. Vegetation consists of sparse to moderately abundant spruce with heavy undergrowth of alder, devil's club and buckbrush at lower elevations. These thin out upslope into grass covered alpine slopes.

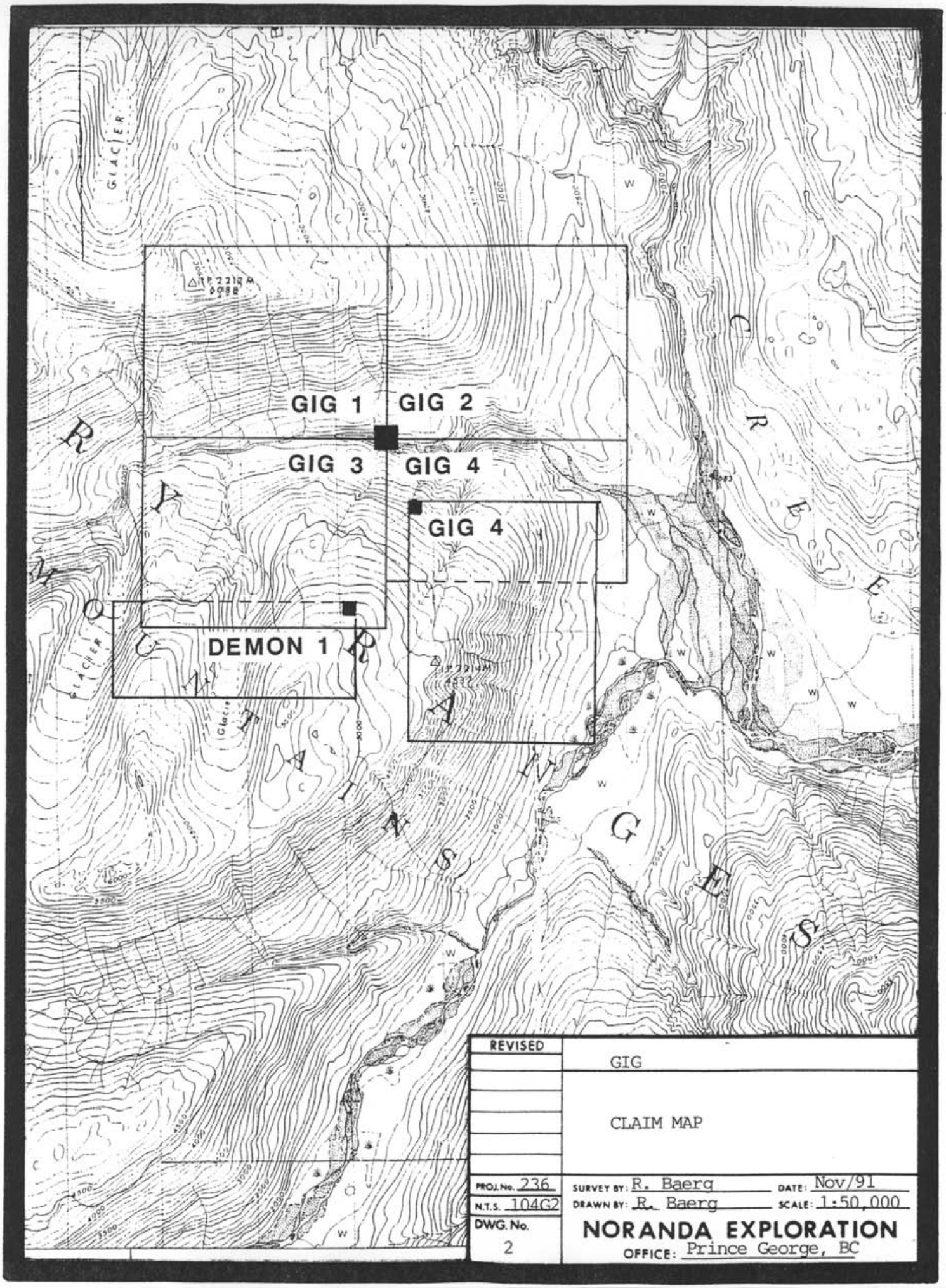
6.0 Claim Statistics:

NAME	UNITS	RECORD #	EXPIRY DATE
Gig 1	20	7312	May 13, 1993
Gig 2	20	7313	May 13, 1993
Gig 3	20	7314	May 13, 1993
Gig 4	15	7315	May 13, 1993
Gig 4	20	7063	Mar. 4, 1992
Demon 1	10	7772	Aug.23, 1993



REVISED	GIG
	LOCATION MAP
PROJ. No. 236	SURVEY BY: R. Baerg DATE: Nov/91
N.T.S. 104G2	DRAWN BY: S.K.B. SCALE: 1:8,000,000
DWG. No. 1	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.

VANCAL 11927



REVISED	GIG
	CLAIM MAP
PROJ. No. 236	SURVEY BY: R. Baerg DATE: Nov/91
N.T.S. 104G2	DRAWN BY: R. Baerg SCALE: 1:50,000
DWG. No. 2	NORANDA EXPLORATION OFFICE: Prince George, BC

7.0 Regional Geology:

The property is located in a geologically diverse area. The oldest rocks mapped in the area are the Paleozoic (Devonian to Permian aged) Stikine Assemblage. These rocks form a broad northerly trending belt west of the Forrest Kerr Fault with local small inliers east of the fault. The "Assemblage" consists of Devonian intermediate to felsic metavolcanics overlain to the south by metasedimentary rocks. The stratigraphy has undergone two phases of penetrative deformation. Upper Triassic Stuhini Group rocks lie between the West Slope and Forrest Kerr Faults south of Forrest Kerr Creek and east of the Forrest Kerr Fault. A generalized stratigraphy consists of a lowermost metasedimentary sequence, a medial metavolcanic sequence and an overlying tuffaceous metasedimentary sequence. Contacts between units are faulted or poorly exposed and stratigraphic relationships are poorly understood.

Jurassic rocks are comprised of a lower shale/siltstone unit with local Upper Middle Jurassic Mt. Dilworth equivalent felsic volcanics, overlain by basalt flows and breccias, a tuff and wacke unit which are in turn conformably overlain by the Bowser Lake Group sediments.

Intrusive rocks in the area range in age from Permian to Tertiary, in composition from diorite to granite and in size, from narrow dykes and sills to kilometre scale plutons. Intrusive activity appears to be concentrated in a 10 km wide north trending belt with the bulk of the intrusive activity being Jurassic in age.

The area has a strong structural fabric comprised of steeply dipping northeast and northwest faults with left and right lateral displacement. A large number of the faults formed during the Jurassic and several of them remained active into the Miocene. (Logan et al, 1990)

8.0 1991 Field Program

During August 1991 field programs consisting of reconnaissance geological mapping, soil, rock, silt and heavy mineral sampling were completed on the Gig claims.

8.1 Property Geology:

According to mapping by Souther (1971) and reconnaissance mapping by Noranda the northwestern 80% of the property is underlain by a large Jurassic leucocratic granite pluton. The remaining southeastern 20% is underlain by dark green-grey foliated andesitic tuffs and argillites of Paleozoic age. (Fig. 4)

Within the pluton at least one large pendant of green andesitic flows and tuffs has been identified. The pendant is moderately to strongly chlorite - epidote altered, primary bedding was locally observed and there was a general lack of penetrative fabric. This evidence seems to indicate that the pendant is Mesozoic in age. As well local, 1 - 5 m wide , dark green diabase dykes cut the granite, generally in a NE direction.

8.2 Mineralization:

Mineralization observed consists of: 1) trace disseminated pyrite in the granite and Paleozoic rocks; 2) poddy galena, sphalerite and chalcopyrite in narrow altered shear zones; 3)massive pyrite with chalcopyrite and sphalerite in gossanous float cobbles. All of the above are discontinuous and erratic in distribution and/or orientation.

8.3 Geochemistry:

A total of four (4) recon traverses were completed on the property. Soil samples were collected at 100 m intervals along the traverses. Where soil samples were collected a grubhoe was used to dig down to the "B" horizon, usually 25 to 35 cm. In alpine areas the soil horizons were not often that well developed and the sample material often consisted of talus fines. Silt and pan samples were collected at 500m spacings along the northeast Gig recon creek traverse while silts collected in the southwest portion of the claims were obtained from previously unsampled creek drainages.The sample material was placed in Wet- strength Kraft paper bags, air dried and then shipped to Noranda Labs in Vancouver. The samples were analysed for Au plus 30 element ICP. For the analytical procedure and analysis results refer to Appendix III and IV.

A total of 70 soils, 7 silts, 9 rocks and 4 heavy mineral samples were collected and a total of two (2) anomalous areas have been identified. (Fig. 4) Anomalous elements include Cu, Zn. Each of the anomalous areas is listed and discussed below.

Anomaly	Lithology	Sample Type	Elements	# Samples
I	granite	soil,silt,rock	Cu,Zn	31
II	phyllite	silt,pan	Zn,Cd,Ni,Cu	5

Anomaly I

Anomaly I is underlain by relatively fresh leucocratic granite. Local quartz-carbonate-chlorite-pyrite shear/fracture zones probably account for the elevated values. Massive pyrite float cobbles, with significant chalcopyrite, sphalerite and galena are also found wdithin the anomalous area. Their source is likely proximal to a glacier which trends off to the south end of the property.

Anomaly II

Anomaly II has elevated Zn,Cu,Ni Cd values from silt and pan samples along a creek drainage in the northeast corner of the Gig claims. Phyllites comprise the majority of the outcrop exposure although overburden along the creek is extensive.

9.0 Conclusions:

The Gig property is underlain by Jurassic intrusives and Paleozoic metasediments and metavolcanics. Reconnaissance work in 1991 has outlined two (2) multielement geochemical anomalies, one in the southwest corner and one in the northeast corner. The high Cu values from the southwest corner are of cursory interest as there is little in the way of precious metals. The proximal occurrence of massive sulphide cobbles make this an area which warrants further prospecting on a low priority basis. The anomalous values in the northeast corner of the property are relatively low and should be given a low priority.

10.0 Recommendations:

The results of the 1991 programs were disappointing and no further work is recommended for the Gig property.

11.0 Bibliography:

Read, P.B. et al : G.S.C. Open File 2094 - Geology, More and Forrest Kerr Creeks. 1989.

Souther, J.G. : G.S.C. Paper 71-44 Telegraph Creek Map Area B.C., 1972.

Logan, J.M., Koyanagi, V.M., Drobe, J.R. (1990) : Geology of the Forrest Kerr Creek Area, NW B.C.; BCMEMPR, Geological Field Work 1989, Paper 1990-1, pages 127-139.

APPENDIX I

SUMMARY COST STATEMENT
(Gig 1 - 4 and Demon 1 Claims)

Project: SM - Gig
Type of Report: Geological, Geochemical
Date: December 13, 1991

1)	Geology:		
	32 days @ $175.00/day		$ 5,600.00
2)	Geochemistry:		
	Silt Samples	7 @ $ 12.00/sample	$ 84.00
	Soil "	70 @ $ 12.00/sample	$ 840.00
	Rock "	9 @ $ 12.00/sample	$ 135.00
	Pan "	4 @ $ 25.00/sample	$ 100.00
3)	Transportation:		
	Helicopter		$ 2,576.52
	Truck Rental/Gas		$ 1,000.00
4)	Supplies/Lodging:		
	22 days @ 100.00/day		$ 2,213.74
5)	Report:		
	Drafting		$ 250.00
	Writing		$ 400.00
		Project Work Total	$ 13,199.26

APPENDIX II

STATEMENT OF QUALIFICATIONS

APPENDIX II

STATEMENT OF QUALIFICATIONS

I, Robert J. Baerg of the city of Prince George, Province of British Columbia, do certify that:

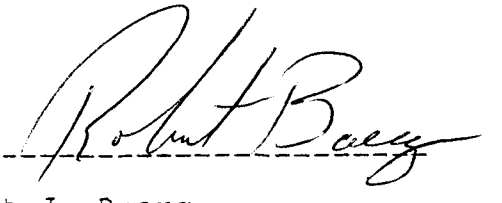
1. I have been employed as a geologist by Noranda Exploration Company, Limited since May, 1984.

2. I am a graduate of the University of British Columbia with a Bachelor of Science (Honors) in Geology (1984).

3. I am an Associate Fellow of the Geological Association of Canada.

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

5. I supervised and assisted with the work described in this report.



Robert J. Baerg
Geologist
Noranda Exploration Company, Limited
(No Personal Liability)

STATEMENT OF QUALIFICATIONS

I. Trevor G. East, of the city of Vancouver, Province of British Columbia, do certify that:

1. I have been employed as a contract geologist by Noranda Exploration Company, Limited (no personal liability) since May, 1991.

2. I am a graduate of the University of British Columbia with a Bachelor of Science in Geology (1991).

3. I have worked in the field of mineral exploration since 1982.

4. The work outlined in the report was, in part, performed by myself during the 1991 field season.

5. I have no direct or indirect interest in the property, nor do I expect to receive any.

_____

Trevor G. East
Geologist

APPENDIX III

ANALYTICAL PROCEDURE

ANALYTICAL PROCEDURE

Soils, Silts, Rocks

The samples are dried and screened to -80 mesh. Rock samples are pulverized to -120 mesh. A 0.2 gram sample is digested with 3 ml of $HClO_4/HNO_3$ (4 to 1 ratio) at 203° C for four hours, and diluted to 11 ml with water. A Leeman PS 3000 is used to determine elemental contents by I.C.P. Note that the major oxide elements and Ba, Be, Ce, Ga, La and Li are rarely dissolved completely from geological materials with this acid dissolution method.

For Au analyses, a 10.0 gram sample of -80 mesh material is digested with aqua regia and determination made by A.A.

Heavy Mineral Concentrates

The entire concentrate is digested in aqua regia solution, and elemental concentrations of Au, Ag, Cu, Pb, and Zn are determined by A.A.

APPENDIX IV

SAMPLE DESCRIPTIONS / ANALYSES

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Gig (76)

Noranda Exploration Co. Ltd. PROJECT 9109-013 236 File # 91-3991

1050 Davie St., Vancouver BC V6E 1M4

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
131674	18	152	3	39	.2	16	13	386	3.18	39	5	ND	1	36	.3	2	2	58	.75	.053	3	9	.63	129	.16	2	1.18	.06	.03	1	7
131675	3	9	2	1	.1	7	2	79	.38	2	5	ND	1	3	.2	2	2	2	.18	.001	2	6	.02	18	.01	2	.06	.01	.01	1	5
135386	2	822	47	3994	8.7	40	23	1329	13.81	46	10	ND	1	5	24.5	2	2	12	6.63	.005	2	12	.03	25	.01	4	.29	.01	.01	1	201
135387	3	4336	2	37	2.4	24	104	592	8.94	18	6	ND	1	20	2.3	2	2	34	3.42	.006	2	5	.03	15	.08	2	.64	.01	.01	1	32
135388	1	817	2	76	1.0	43	66	647	10.90	10	5	ND	1	24	2.1	2	2	440	.45	.008	2	53	1.76	8	.19	2	2.45	.02	.02	1	11
RE 135388	1	776	2	76	1.0	42	67	650	10.96	12	5	ND	1	25	2.3	2	2	449	.41	.009	2	53	1.80	8	.19	2	2.50	.03	.01	1	10

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.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 29 1991 **DATE REPORT MAILED:** Sept 4/91 **SIGNED BY.....** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

RECEIVED
SEP - 9 1991

Copy to Rob x2
file 236-Gig

Dip Reading RS

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104G/2E

PROPERTY GIG.

DATE SEPT. AUG. 24/91

ROCK SAMPLE REPORT

PROJECT 236

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
	- see 1:10,000 map : beside 1990 SILT # 120676 @ 3780' elev. -											
31674	DIORITE Mottled whites, blacks, grays with green., m-c.g; contains fg, dk grey fragment/clast of chloritized (moderate alteration) andesite. ~1% py blebs and stringers ; w/mag-py-chl. @ 3780' elev. - see 1:10,000 map : 50m from # 131674 ; same conter-	1	FLOAT	GRAB								T.E.
31675	QUARTZ VEIN Well-rounded, white, c.g., boulder with trace malachite stain. - see 1:10,000 map @ 3850' elev.	TRACE	FLOAT	GRAB								T.E.
35386	ALTERED ANDESITE(?) <gossan> ~25-30 M-c.g, massive pyrite ; moderately chloritized volcanic(?) ; medium green with pyrite - yellow. - see 1:10,000 map -	~25-30	FLOAT	GRAB								T.E.
35387	ALTERED ANDESITE (?) @ 3875' elev. <gossan> ~40-50 Same as # 135386 except pyrite is 40-50% massive ; m/chl-gtz. @ # 135639 SILT location. - see 1:10,000 map ; @ 4025' elev. -	~40-50	FLOAT	GRAB								T.E.
135388	DIORITE M-c.g, strong (intense) magnetic ~1-2 ~1-2% diss. py : fracture zone. ; gossanous	~1-2	OUTCROP	GRAB								T.E.

G = GEOCHEM A = ASSAY

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

Project Name & No.: GIG – 236 **Geol.:** R.B. **Date received:** AUG. 15 **LAB CODE:** 9108–059
Material: 49 SOILS **Sheet:** 1 of 2 **Date completed:** SEP. 05
Remarks: • Sample screened @ –35 MESH (0.5 mm)
¤ Organic, Δ Humus, S Sulfide

Au – 10.0 g sample digested with aqua–regia and determined by A.A. (D.L. 5 PPB)

ICP – 0.2 g sample digested with 3 ml $HClO_4/HNO_3$ (4:1) at 203 °C for 4 hours diluted to 11 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, La, Li, Ga are rarely dissolved completely from geological materials with this acid dissolution method.

Copy to Rob
file 236 Geo

T.T. No.	SAMPLE No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
79	125401		5	0.2	4.26	5	173	1.7	5	0.79	0.2	72	19	67	60	5.46	0.36	31	22	1.16	1135	4	0.14	25	0.11	14	65	0.31	115	132
80	125402		5	0.2	4.83	6	291	1.3	10	1.41	0.2	54	26	152	78	5.67	0.44	24	27	1.88	1272	3	0.11	44	0.09	21	115	0.27	162	127
81	125403	•	5	0.2	4.76	2	215	1.5	5	1.34	0.2	40	25	90	95	5.81	0.36	21	24	1.80	1344	1	0.10	37	0.09	12	113	0.28	161	145
82	125404		5	0.2	5.15	3	330	2.4	5	1.02	0.3	74	22	33	97	5.83	0.57	33	29	1.49	1646	1	0.10	21	0.07	17	99	0.20	148	176
83	125405		5	0.2	4.75	5	267	0.9	5	1.19	0.2	31	21	40	81	5.30	0.60	14	25	1.71	1200	1	0.07	23	0.06	13	104	0.18	155	132
84	125406	•	5	0.2	4.16	7	282	0.7	5	0.74	0.2	25	17	28	43	4.53	0.61	12	24	1.54	988	1	0.05	16	0.04	7	62	0.11	132	115
85	125407		5	0.6	4.76	57	175	1.0	5	1.64	0.2	50	34	29	178	7.85	0.44	23	20	1.69	1187	2	0.10	27	0.15	18	119	0.33	178	265
86	125408		5	0.2	4.52	12	220	1.2	5	0.88	0.2	54	24	34	136	5.29	0.54	26	21	1.45	1011	2	0.18	24	0.10	16	71	0.27	136	195
87	125409		5	0.2	4.41	29	218	2.3	5	0.71	0.3	85	18	32	93	5.67	0.49	39	20	1.12	1335	2	0.15	19	0.11	10	56	0.27	122	213
88	125410		5	0.2	5.26	27	238	1.5	5	1.07	0.2	62	24	28	131	5.98	0.54	24	20	1.49	1455	1	0.11	19	0.11	9	90	0.23	157	166
89	125411		5	0.2	3.63	49	64	1.6	5	0.62	0.2	70	3	15	40	5.75	0.18	36	7	0.25	466	5	0.18	3	0.11	17	37	0.25	68	85
90	125412		5	0.2	3.98	2	105	1.8	5	0.41	0.2	69	7	19	39	4.48	0.25	38	11	0.42	439	3	0.14	6	0.10	9	39	0.24	72	85
91	125413		5	0.2	3.35	8	89	1.2	5	0.36	0.2	51	7	22	32	5.22	0.23	28	12	0.31	430	7	0.17	6	0.11	13	35	0.30	85	74
92	125414		5	1.0	5.47	22	262	1.3	5	1.71	0.2	55	34	37	185	5.78	0.43	24	25	1.85	1257	4	0.18	28	0.11	16	144	0.32	160	135
93	125415		60	0.2	5.33	14	186	1.1	5	1.95	0.3	50	27	24	123	6.02	0.36	21	21	1.73	1335	3	0.16	22	0.11	20	145	0.32	179	116
94	125416		5	0.2	4.19	13	147	1.9	5	1.07	0.2	84	17	22	84	5.47	0.34	36	19	1.06	998	5	0.22	18	0.10	17	81	0.31	122	132
95	125417		5	0.2	5.46	17	184	1.8	5	1.61	0.2	82	24	45	98	5.49	0.43	32	23	1.60	1037	8	0.17	27	0.10	15	107	0.29	134	136
96	125418		5	0.2	5.53	20	212	2.1	5	1.36	0.2	87	22	45	98	5.64	0.47	36	23	1.56	1190	9	0.17	28	0.11	9	100	0.27	126	148
97	125419		5	0.2	5.34	19	314	1.6	5	1.37	0.2	101	26	129	67	5.18	0.41	48	23	2.30	721	4	0.23	72	0.16	10	123	0.28	125	131
98	125420		5	0.2	3.69	13	113	0.9	5	0.32	0.2	82	6	31	48	5.36	0.28	42	12	0.23	184	5	0.12	6	0.15	10	39	0.47	140	53
99	125421		5	0.2	5.27	33	120	1.7	5	0.92	0.2	89	16	20	218	6.54	0.24	40	19	1.00	1020	5	0.16	15	0.13	10	69	0.28	181	139
101	125422		5	0.2	4.91	19	103	1.1	5	0.78	0.2	44	14	14	126	5.28	0.22	23	11	0.86	815	3	0.12	12	0.15	7	63	0.31	176	115
102	125423		5	0.2	2.24	7	79	0.4	5	0.22	0.2	13	4	22	21	3.43	0.13	13	5	0.15	193	2	0.09	2	0.08	10	27	0.40	104	39
103	125424		5	0.4	2.56	7	70	0.6	5	0.21	0.2	20	3	22	20	1.73	0.16	15	6	0.10	90	3	0.08	4	0.12	17	23	0.40	83	41
104	125425		5	0.2	3.41	95	75	0.6	5	2.70	0.6	31	13	18	54	6.34	0.16	15	7	0.26	2889	4	0.05	4	0.10	14	40	0.39	118	124
105	131826		5	0.2	3.04	20	102	0.7	5	0.83	0.2	29	6	20	47	2.76	0.24	17	11	0.44	380	3	0.14	8	0.16	15	66	0.25	85	63
106	131827		5	0.2	4.09	48	178	0.6	5	1.62	0.2	37	19	18	108	4.49	0.41	17	13	1.03	930	2	0.09	15	0.09	12	105	0.23	135	127
107	131828		5	0.2	3.60	32	131	0.6	5	0.95	0.2	30	9	21	68	3.79	0.32	15	12	0.76	433	3	0.10	10	0.11	18	74	0.23	119	76
108	131829		5	0.2	4.16	34	183	0.6	5	1.03	0.2	32	15	21	83	4.35	0.45	16	13	0.99	783	2	0.07	15	0.11	14	84	0.23	136	123
109	131830		5	0.2	3.41	27	163	0.5	5	1.04	0.2	26	12	19	103	4.07	0.36	14	12	0.92	618	2	0.07	11	0.09	12	78	0.21	120	125
110	131831		5	0.6	2.16	5	47	0.4	5	0.22	0.2	28	2	19	21	1.94	0.12	15	7	0.10	77	3	0.16	4	0.10	13	21	0.13	47	31
111	131832		5	0.2	3.67	2	104	0.7	5	1.05	0.2	58	11	19	27	5.61	0.26	16	6	0.90	427	1	0.17	6	0.06	5	69	0.48	242	46
112	131833		5	0.4	2.21	3	73	0.4	5	0.60	0.3	58	6	20	54	2.78	0.17	9	6	0.36	234	4	0.13	5	0.11	14	42	0.23	71	52
113	131834		5	0.2	2.28	4	78	0.4	5	0.51	0.2	58	4	18	18	2.23	0.18	12	7	0.24	188	3	0.24	3	0.09	9	45	0.24	65	35
114	131835		5	0.2	4.97	49	117	0.7	5	1.50	0.2	58	23	29	313	6.97	0.25	15	12	1.11	766	2	0.15	15	0.18	9	99	0.29	161	98

13/09 PG DP

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
115	131836	5	0.2	1.43	4	62	0.3	5	0.42	0.2	58	5	20	22	1.66	0.21	9	6	0.24	246	4	0.33	4	0.09	8	33	0.17	50	36
116	131837	55	0.2	3.57	63	274	0.5	5	2.11	0.5	58	18	21	86	4.05	0.40	13	11	1.21	775	1	0.08	21	0.08	5	126	0.18	161	106
117	131838	5	0.2	4.25	24	311	0.5	9	2.16	0.5	58	21	23	90	4.54	0.45	14	14	1.54	954	1	0.10	22	0.08	5	128	0.18	158	96
118	131839	5	0.2	6.14	2	600	1.9	10	0.49	0.2	58	19	18	99	6.73	1.17	36	17	1.24	1339	2	0.14	13	0.12	14	47	0.27	139	139
119	131840	5	0.2	5.24	5	259	1.3	8	1.07	0.2	58	23	35	124	6.10	0.74	27	18	1.49	1162	2	0.19	19	0.13	24	102	0.29	161	163
120	131841	5	0.2	2.50	2	108	0.9	8	0.23	0.2	58	5	20	25	3.36	0.33	24	10	0.33	315	5	0.22	5	0.13	13	25	0.27	73	55
121	131842	5	0.2	4.17	3	141	0.9	5	1.09	0.2	58	12	26	85	5.76	0.48	19	11	0.98	700	1	0.14	11	0.09	2	130	0.38	115	83
122	131843	5	0.2	4.49	4	118	2.4	5	0.37	0.2	58	10	17	78	7.21	0.36	51	15	0.57	1104	4	0.22	7	0.13	7	35	0.31	102	117
123	131844	5	0.2	4.28	3	89	1.4	5	0.38	0.2	58	9	21	60	4.87	0.28	21	13	0.70	593	2	0.13	7	0.14	6	43	0.39	144	86
124	131845	5	0.2	4.45	7	199	1.9	5	0.64	0.2	58	16	22	99	5.61	0.55	37	17	1.05	978	2	0.19	17	0.12	7	70	0.36	140	129
125	131846	5	0.2	4.31	3	72	2.7	5	0.18	0.2	58	3	9	31	6.02	0.20	52	12	0.19	619	4	0.22	3	0.08	10	15	0.24	45	122
126	131847	5	0.2	4.43	2	144	1.9	5	0.32	0.2	58	10	12	50	5.38	0.47	37	12	0.53	1244	2	0.17	5	0.16	8	41	0.33	85	119
127	131848	5	0.2	4.43	4	134	1.5	5	0.70	0.2	58	15	18	65	5.98	0.37	31	13	0.86	1795	2	0.14	7	0.15	4	85	0.38	140	106
128	131849	5	0.2	3.70	7	170	1.8	5	0.56	0.2	58	12	17	61	5.57	0.42	30	13	0.71	1667	2	0.21	8	0.12	8	59	0.25	100	119

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Sig (RB)

Noranda Exploration Co. Ltd. PROJECT 9108-059 236 File # 91-3526

1050 Davie St., Vancouver BC V6E 1M4

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
125460	1	23	10	49	.3	43	33	411	4.69	30	5	ND	1	62	.2	2	2	42	1.04	.160	5	68	.86	23	.23	3	1.10	.06	.02	1	6
125461	7	314	2	93	.3	12	22	369	3.88	50	5	ND	1	25	.4	2	2	96	1.37	.063	4	20	1.07	41	.28	2	1.77	.05	.06	1	1
125462	1	155	180	297	.3	38	23	1348	3.17	6	5	ND	1	83	1.7	2	2	48	1.36	.023	2	208	2.52	11	.17	2	2.71	.01	.01	1	3
125463	1	489	4	43	.1	7	10	1259	4.04	8	5	ND	1	39	.4	2	2	28	3.35	.076	3	12	1.15	283	.01	5	1.09	.05	.20	1	1
RE 125460	1	28	13	52	.2	44	33	412	4.61	32	5	ND	1	60	.2	2	2	43	1.07	.164	5	48	.87	28	.23	3	1.12	.06	.01	1	4

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.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 15 1991 DATE REPORT MAILED: Aug 21/91. SIGNED BY. C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

w/Aug/16 Rodney

Cent. Cord District

Soil: Au+30 ICP

~~RX: Au+30 ICP Assay~~

Sheet 1 of 1

Lab Code 9108-059

4 R Soil

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

MATERIAL:
- [x] SOIL
- [ ] SILT
- [x] ROCK

Date Shipped: Aug 13/91
Date Received: Aug 15
Shipped Via: Bandstra
No. of Cartons: 1
No. of Samples: 53
Geologist: R. Baerg
Date: Aug 13/91

Project Gig No. 236

SAMPLE NOS./COORDS. FROM/LINE	SAMPLE NOS./COORDS. TO/STATION	N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS. FROM/LINE	SAMPLE NOS./COORDS. TO/STATION	N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
125460	↓ 125463		Rocks (4)						
125401	↓ 125425		Soils (25) ✓						
131826	↓ 131849		Soils (24) ✓						

CBC 236
Soil 9108-059

CBC 236
SOIL [illegible] 3.359

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag) ☐
(Cu, Pb, Zn, Mo, Ag) +___+___ ☐
(Cu, Pb, Zn, Mo, Ag) + AS NOTED ☐

RESULTS TO: R. Baerg

SPECIAL INSTRUCTIONS OR REMARKS:
30 element I.C.P.
& Au geochem

18284

SEND IN BOX

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 G/2

PROPERTY Gig

DATE Aug 7 /91

ROCK SAMPLE REPORT

PROJECT 236

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
25460 (RG III)	- ~4840 ft el., ~294 meters from start of Aug 7 traverse - gossoned rock within medium grained dyke within granite pluton - hematite staining of weathered surface - sericite - pyrite alteration moderate	4 (pyrite)										BP
25461 (RG III)	- ~3940 ft el, ~1280 m along traverse (Aug 7) - from small gosson within monzonitic (?) dyke (?) - mod. sericite alteration - rusty to buff orange surface - fine grained diss. py - some foliation evident ~150°	2										BP

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 G/2

PROPERTY General (Gig recon #4)

DATE Aug 8/91

ROCK SAMPLE REPORT

PROJECT 236

MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☒	G☐ A☐	G☐ A☐	SAMPLED BY
25462 (RG IV)	~442 m along Aug 8th traverse @ 4710 ft. elevation - chlorite, carbonate altered monzonite (?) - 1-2% pyrite, minor cpy @ malachite staining, < 1% medium grained galena - from small shear ~070°	~2-3										BP
25463 (RG IV)	~1550 m along Aug 8th traverse @ ~3800 ft el. (near pick-up spot) - taken from small shear adjacent to 20 cm quartz vein - within foliated tuff - coarse "blebby" cpy @ minor galena.	2-3										BP

G = GEOCHEM A = ASSAY

Cordillera District

Soil > Au + 30ICP
Silt
PAN : Au + BM
RX : Au + 30ICP Acme

Sheet 1 of

Lab Code 9109-013

22 soil
6 Silt
4 PAN
5 RX

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

MATERIAL:
- [X] SOIL (22)
- [X] ~~SILT~~ PAN (4)
- [X] ROCK (5)

Date Shipped: Aug. 27/91
Date Received: Aug 29
Shipped Via: Truck
No. of Cartons: 2
No. of Samples: ~~38~~ 37 TOTAL
Geologist: TREVOR EAST
Date: Aug. 27/91

Project GIG No. 236

SAMPLE NOS./COORDS. FROM/LINE	SAMPLE NOS./COORDS. TO/STATION	N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS. FROM/LINE	SAMPLE NOS./COORDS. TO/STATION	N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
135641					135386				
↓	PAN CONCENTRATES (4) ✓				↓	ROCK (3)			
135644 ✓					135388 ✓				
09355	SOIL (1)	✓			09356				
					↓	SILT (4) ✓			
123744					09359				
↓	SOIL (7)	✓							
123750 ✓									
135639									
↓	SILT (2) ✓								
135640 ✓									
20237	SOIL								
↓	~~SOIL~~ (14) ✓								
20250 ✓									
131674									
↓	ROCK (2)								
131675 ✓									

CBC 236
SOIL 9109-013

CBC 236
Soil
Silt
PAN
9109-013

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag) ☐
(Cu, Pb, Zn, Mo, Ag) +___+___ ☐
(Cu, Pb, Zn, Mo, Ag) + AS NOTED ☐

RESULTS TO: ROBERT BAERG (PRINCE GEORGE office)

SPECIAL INSTRUCTIONS OR REMARKS:

30 element I.C.P., Au by A.A.

10000

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104G/2E

PROPERTY GIG.

DATE Sat. Aug. 24/91

ROCK SAMPLE REPORT

PROJECT 236

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
	- see 1:10,000 map : beside 1990 SILT # 120676 @ 3780' elev. -											
131674 :	DIORITE Mottled whites, blacks, greys with green. ; m-c.g; contains fig, dk grey fragment/clast of chloritized (moderate alteration) andesite. ~1% py blebs and stringers ; w/mag-py-chl. @ 3780' elev. - see 1:10,000 map : 50m from # 131674 ; same contin-	1	FLOAT	GRAB								T.E.
131675	QUARTZ VEIN Well-rounded, white, c.g, boulder with trace malachite stain. - see 1:10,000 map @ 3850' elev.	TRACE	FLOAT	GRAB								T.E.
135386	ALTERED ANDESITE(?) <gossan> ~25-30 M-c.g, massive pyrite ; moderately chloritized volcanic(?) ; medium green with pyrite - yellow. - see 1:10,000 map -		FLOAT	GRAB								T.E.
35387	ALTERED ANDESITE (?) @ 3875' elev. <gossan> ~40-50 Same as # 135386 except pyrite is 40-50% massive ; m/dk-gte. @ # 135639 SILT location. - see 1:10,000 map ; @ 4025' elev. -		FLOAT	GRAB								T.E.
135388	DIORITE M-c.g, strong (intense) magnetic ~1-2 <1-2% dissem. py ; fracture zone. ; gossanous		OUTCROP	GRAB								T.E.

G = GEOCHEM A = ASSAY

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

GEOCHEMICAL ANALYSIS CERTIFICATE Gig (Rb)

Noranda Exploration Co. Ltd. PROJECT 9108-059 236 File # 91-3526

1050 Davie St., Vancouver BC V6E 1M4

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
125460	1	23	10	49	.3	43	33	411	4.69	30	5	ND	1	62	.2	2	2	42	1.04	.160	5	68	.86	23	.23	3	1.10	.06	.02	1	6
125461	7	314	2	93	.3	12	22	369	3.88	50	5	ND	1	25	.4	2	2	96	1.37	.063	4	20	1.07	41	.28	2	1.77	.05	.06	1	1
125462	1	155	180	297	.3	38	23	1348	3.17	6	5	ND	1	83	1.7	2	2	48	1.36	.023	2	208	2.52	11	.17	2	2.71	.01	.01	1	3
125463	1	489	4	43	.1	7	10	1259	4.04	8	5	ND	1	39	.4	2	2	28	3.35	.076	3	12	1.15	283	.01	5	1.09	.05	.20	1	1
RE 125460	1	28	13	52	.2	44	33	412	4.61	32	5	ND	1	60	.2	2	2	43	1.07	.164	5	48	.87	28	.23	3	1.12	.06	.01	1	4

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. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 15 1991 DATE REPORT MAILED: Aug 21/91. SIGNED BY. C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Copy to Rob + 2
file 236 - Gig

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 G/2

PROPERTY Gig

DATE Aug 7 /91

ROCK SAMPLE REPORT

PROJECT 236

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
25460 (RG III)	- ~4840 ft el., ~294 meters from start of Aug 7 traverse - gossoned rock within medium grained dyke within granite pluton - hematite staining of weathered surface - sericite - pyrite alteration moderate	4 (pyrite)										BP
25461 (RG III)	- ~3940 ft el, ~1280 m along traverse (Aug 7) - from small gossan within monzonitic (?) dyke (?) - mod. sericite alteration - rusty to buff orange surface - fine grained diss. py - some foliation evident ~150°	2										BP

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 G/2

PROPERTY General (Gig recon #4)

DATE Aug 8/91

ROCK SAMPLE REPORT

PROJECT 236

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
25462 (RG IV)	~442 m along Aug 8th traverse @ 4710 ft. elevation - chlorite, carbonate altered monzonite (?) - 1-2% pyrite, minor cpy @ malachite staining, < 1% medium grained galena - from small shear ~070°	~2-3										BP
25463 (RG IV)	~1550 m along Aug 8th traverse @ ~3800 ft el. (near pick-up spot) - taken from small shear adjacent to 20 cm quartz vein - within foliated tuff - coarse "blebby" cpy @ minor galena.	2-3										BP

G = GEOCHEM A = ASSAY

NORANDA VANCOUVER LABORATORY
Geochemical Analysis

Project Name & No.: GIG – 236 **Geol.:** T.E. **Date received:** AUG. 29 **LAB CODE:** 9109–013
Material: 6 SILTS & 22 SOILS **Sheet:** 1 of 1 **Date completed:** SEP. 18
Remarks: • Sample screened @ –35 MESH (0.5 mm)
■ Organic, Δ Humus, S Sulfide

Au – 10.0 g sample digested with aqua–regia and determined by A.A. (D.L. 5 PPB)

ICP – 0.2 g sample digested with 3 ml $HClO_4/HNO_3$ (4:1) at 203 °C for 4 hours diluted to 11 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, La, Li, Ga are rarely dissolved completely from geological materials with this acid dissolution method.

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
108	9355	5	0.2	4.44	18	168	0.9	5	1.34	0.2	48	14	31	47	4.01	0.34	18	12	0.87	910	2	0.12	15	0.13	12	79	0.21	101	92
109	9356	5	0.4	4.02	20	508	1.1	5	0.99	2.5	45	14	33	44	3.75	0.87	20	19	0.65	1057	4	0.05	27	0.11	10	76	0.13	143	251
110	9357	5	0.4	3.85	19	493	1.0	5	1.00	1.7	44	13	37	38	3.68	0.83	18	18	0.72	839	4	0.06	26	0.10	11	84	0.14	140	208
111	9358 •	5	0.2	3.75	20	384	1.0	5	0.76	1.2	32	12	24	35	3.61	0.82	15	20	0.76	815	4	0.05	28	0.08	4	65	0.13	138	192
112	9359	5	0.4	3.43	20	387	0.9	5	0.85	0.7	37	11	21	33	3.28	0.71	16	18	0.69	770	3	0.05	22	0.08	6	69	0.14	124	157
113	20237	5	0.2	3.22	16	350	1.0	5	0.76	0.2	54	10	23	31	3.51	0.56	22	10	0.64	680	1	0.09	14	0.07	8	69	0.18	92	88
114	20238	5	0.2	3.79	30	561	1.0	5	0.76	0.3	48	12	23	38	3.79	0.65	21	13	0.86	695	3	0.07	16	0.08	10	66	0.16	122	117
115	20239	5	0.4	3.17	14	150	1.1	5	0.48	0.2	59	8	22	27	3.76	0.40	25	10	0.43	621	2	0.12	10	0.12	13	47	0.23	71	82
116	20240	5	0.2	3.15	12	195	0.7	5	0.53	0.2	39	6	25	16	4.36	0.44	17	6	0.46	313	3	0.05	7	0.10	10	55	0.20	104	51
117	20241	5	0.2	3.21	13	171	0.9	5	0.56	0.2	56	9	22	25	3.66	0.47	24	10	0.56	500	3	0.11	12	0.08	13	54	0.22	74	72
118	20242	5	0.2	4.05	25	623	1.0	5	1.14	0.2	47	9	36	28	3.84	0.45	23	16	0.50	849	10	0.05	16	0.15	12	60	0.26	106	67
119	20243	5	0.2	3.33	21	279	1.4	5	0.54	0.2	71	10	24	41	3.88	0.51	28	12	0.57	672	6	0.10	15	0.07	18	51	0.19	82	92
120	20244	5	0.2	2.88	17	148	1.5	5	0.46	0.2	79	7	19	24	3.81	0.36	28	10	0.43	842	3	0.13	10	0.08	13	42	0.17	57	91
121	20245	5	0.2	3.76	9	180	1.5	5	0.39	0.2	77	8	25	32	3.97	0.42	33	12	0.50	403	4	0.14	13	0.09	11	44	0.24	75	99
122	20246	5	0.2	2.45	6	83	1.0	5	0.19	0.2	56	3	19	54	2.97	0.25	23	9	0.27	212	2	0.20	7	0.07	6	18	0.19	44	56
123	20247	5	0.2	1.85	2	110	0.3	5	0.15	0.2	28	3	20	9	1.36	0.33	15	6	0.22	139	1	0.13	7	0.09	9	18	0.36	57	30
124	20248	5	0.2	3.34	20	435	1.5	5	0.39	0.2	58	7	19	21	3.22	0.54	30	12	0.40	859	10	0.13	8	0.10	9	30	0.18	73	87
125	20249	5	0.2	4.80	12	210	0.5	5	0.38	0.2	36	6	16	15	3.68	0.71	15	10	0.56	419	3	0.05	6	0.08	11	41	0.22	94	40
126	20250	5	0.2	2.33	11	330	0.4	5	0.39	0.2	36	6	10	25	2.07	0.67	15	7	0.46	471	1	0.03	7	0.03	4	36	0.06	39	33
127	123744	5	0.2	2.80	9	670	0.5	5	0.97	0.2	47	8	16	16	2.38	0.57	16	7	0.55	645	1	0.04	10	0.04	8	81	0.09	53	34
128	123745	5	0.2	3.01	8	460	0.4	5	0.93	0.2	39	7	20	18	2.30	0.45	13	7	0.46	475	1	0.04	7	0.03	8	83	0.09	47	32
129	123746	5	0.2	5.30	15	324	0.9	5	0.82	0.2	98	19	31	54	5.04	0.61	24	19	1.17	1493	2	0.05	21	0.11	26	82	0.20	119	119
130	123747	5	0.2	3.93	11	239	0.9	6	0.54	0.2	46	8	28	23	3.56	0.52	22	11	0.65	339	2	0.09	10	0.13	18	59	0.28	104	57
131	123748 •■	5	0.2	1.48	3	55	0.4	5	0.13	0.2	18	3	15	8	0.78	0.15	9	3	0.08	62	1	0.16	3	0.12	2	15	0.14	26	28
132	123749	5	0.2	3.89	6	171	0.5	5	0.62	0.2	34	8	28	18	3.82	0.41	15	8	0.70	358	1	0.05	9	0.11	5	69	0.24	92	49
133	123750	5	0.2	4.31	15	197	0.5	5	1.49	0.2	41	17	34	144	3.49	0.38	13	11	1.27	706	1	0.08	18	0.07	8	113	0.18	107	65
134	SILT 135639	5	0.2	2.44	6	1183	0.4	5	1.71	0.2	43	9	19	23	2.08	0.41	13	6	0.54	511	1	0.05	7	0.03	4	120	0.11	56	39
135	SILT 135640	5	0.2	5.35	18	356	0.9	5	1.34	0.6	51	27	31	86	5.20	0.83	18	24	2.26	1472	2	0.06	28	0.07	26	117	0.19	161	105

Copy - Rob
File - 236 - SIL - GIG

30 kpt PG DP

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

GEOCHEMICAL ANALYSIS CERTIFICATE

GS (TE)

Noranda Exploration Co. Ltd. PROJECT 9109-013 236 File # 91-3991

1050 Davie St., Vancouver BC V6E 1M4

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
131674	18	152	3	39	.2	16	13	386	3.18	39	5	ND	1	36	.3	2	2	58	.75	.053	3	9	.63	129	.16	2	1.18	.06	.03	1	7
131675	3	9	2	1	.1	7	2	79	.38	2	5	ND	1	3	.2	2	2	2	.18	.001	2	6	.02	18	.01	2	.06	.01	.01	1	5
135386	2	822	47	3994	8.7	40	23	1329	13.81	46	10	ND	1	5	24.5	2	2	12	6.63	.005	2	12	.03	25	.01	4	.29	.01	.01	1	201
135387	3	4336	2	37	2.4	24	104	592	8.94	18	6	ND	1	20	2.3	2	2	34	3.42	.006	2	5	.03	15	.08	2	.64	.01	.01	1	32
135388	1	817	2	76	1.0	43	66	647	10.90	10	5	ND	1	24	2.1	2	2	440	.45	.008	2	53	1.76	8	.19	2	2.45	.02	.02	1	11
RE 135388	1	776	2	76	1.0	42	67	650	10.96	12	5	ND	1	25	2.3	2	2	449	.41	.009	2	53	1.80	8	.19	2	2.50	.03	.01	1	10

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.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 29 1991 **DATE REPORT MAILED:** Sept 4/91 **SIGNED BY.....** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Sig PG Rx only

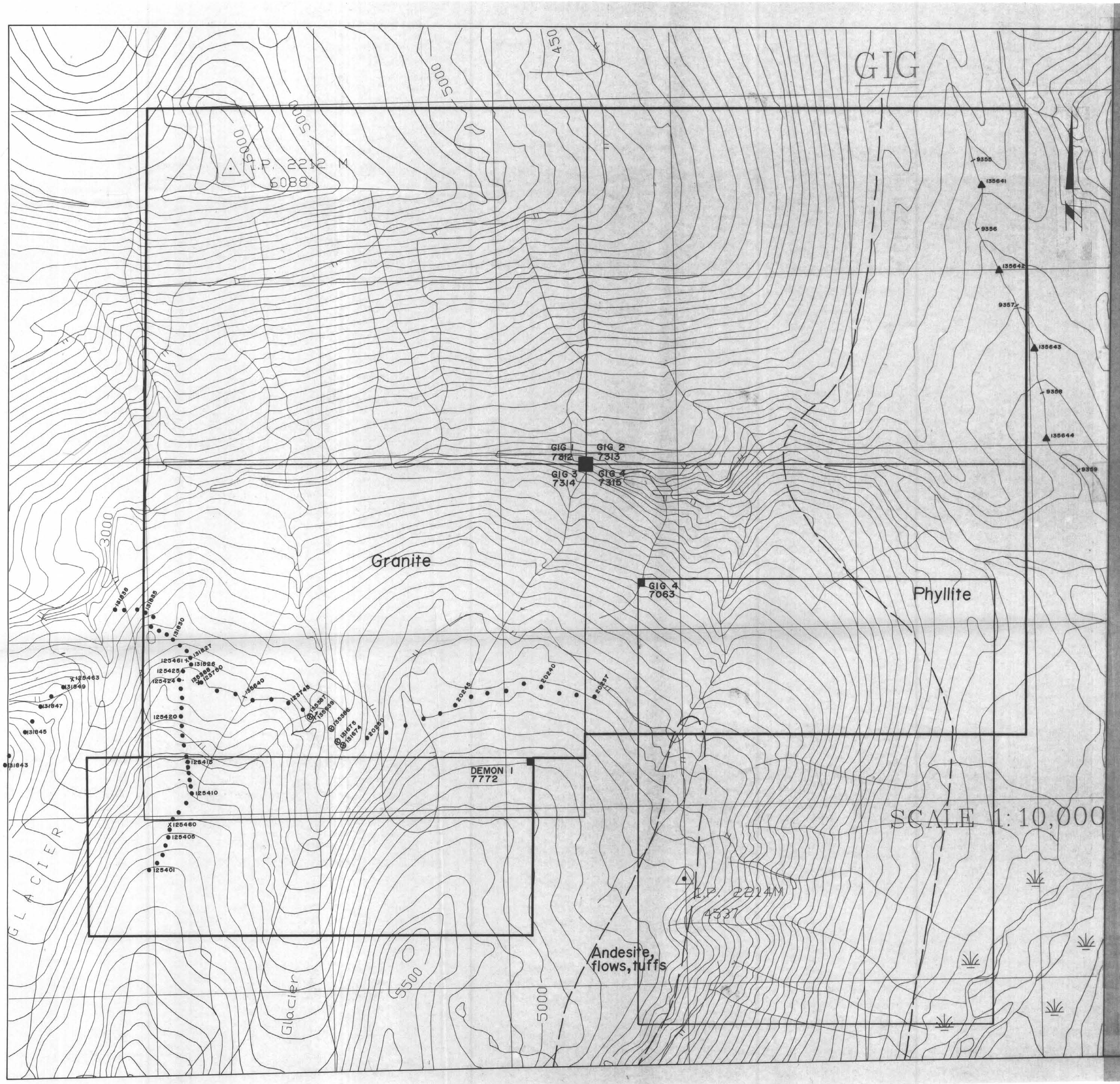
NORANDA VANCOUVER LABORATORY
Geochemical Analysis

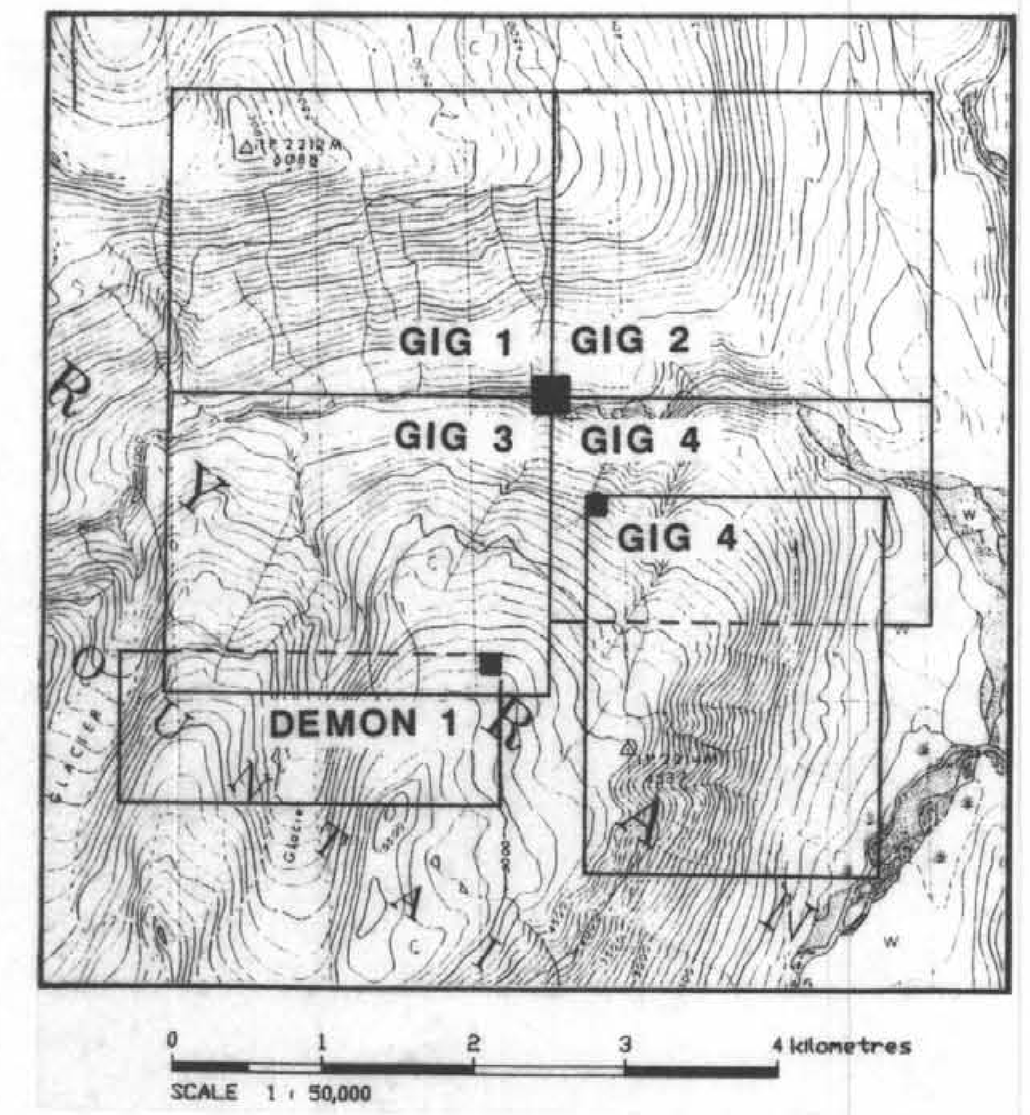
PROPERTY/ LOCATION: G I G

CODE: 9109–013

Project No.: 236 Sheet: 1 of 1 Date received: AUG. 29
Material: 4 PAN–CONS Geol.: R.B. Date completed: SEP. 20
Remarks: Pan–con: entire sample used for Au determination.
*Cu, Zn, Pb, Ag values obtained from Aqua Regia sol'n.

T.T. No.	SAMPLE No.	weight (g)	PPB Au	Cu	Zn	Pb	Ag
88	135641	30.1	5	18	82	1	0.2
89	135642	44.1	5	22	90	1	0.2
91	135643	55.7	5	26	98	1	0.2
93	135644	35.7	5	104	32	1	0.2





1991 SOIL SAMPLES

SAMPLE No.	Au ppb	Ag ppm	As ppm	Ba ppm	Cd ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
20237	5	0.2	16	350	0.2	31	1	8	88
20238	5	0.2	30	561	0.3	38	3	10	117
20239	5	0.4	14	150	0.2	27	2	13	82
20240	5	0.2	12	195	0.2	16	3	10	51
20241	5	0.2	13	171	0.2	25	3	13	72
20242	5	0.2	25	623	0.2	20	10	12	67
20243	5	0.2	21	279	0.2	41	6	18	92
20244	5	0.2	17	178	0.2	24	3	13	91
20245	5	0.2	9	180	0.2	32	4	11	99
20246	5	0.2	6	83	0.2	54	2	6	56
20247	5	0.2	2	110	0.2	9	1	9	30
20248	5	0.2	20	435	0.2	21	10	9	87
20249	5	0.2	12	210	0.2	15	3	11	40
20250	5	0.2	11	330	0.2	25	1	4	33
123744	5	0.2	9	670	0.2	16	1	8	34
123745	5	0.2	8	460	0.2	18	1	8	32
123746	5	0.2	15	324	0.2	54	2	26	119
123747	5	0.2	11	239	0.2	23	2	18	57
123748	5	0.2	3	55	0.2	8	1	2	28
123749	5	0.2	6	171	0.2	18	1	5	49
123750	5	0.2	15	197	0.2	144	1	8	65
125401	5	0.2	5	173	0.2	60	4	14	132
125402	5	0.2	6	291	0.2	78	3	21	127
125403	5	0.2	2	215	0.2	95	1	12	145
125404	5	0.2	3	330	0.3	97	1	17	176
125405	5	0.2	5	267	0.2	81	1	13	132
125406	5	0.2	7	282	0.2	43	1	7	115
125407	5	0.6	57	175	0.2	178	2	18	265
125408	5	0.2	12	220	0.2	136	2	16	195
125409	5	0.2	29	218	0.3	93	2	10	213
125410	5	0.2	27	238	0.2	131	1	9	166
125411	5	0.2	49	64	0.2	40	5	17	85
125412	5	0.2	2	105	0.2	39	3	9	85
125413	5	0.2	8	89	0.2	32	7	13	74
125414	5	1.0	22	262	0.2	185	4	16	135
125415	60	0.2	14	186	0.3	123	3	20	116
125416	5	0.2	13	147	0.2	84	5	17	132
125417	5	0.2	17	184	0.2	98	8	15	136
125418	5	0.2	20	212	0.2	98	9	9	148
125419	5	0.2	19	314	0.2	67	4	10	131
125420	5	0.2	13	113	0.2	48	5	10	53
125421	5	0.2	33	120	0.2	218	5	10	139
125422	5	0.2	19	103	0.2	126	3	7	115
125423	5	0.2	7	79	0.2	21	2	10	39
125424	5	0.4	7	70	0.2	20	3	17	41
125425	5	0.2	95	75	0.6	54	4	14	124
131826	5	0.2	20	102	0.2	47	3	15	63
131827	5	0.2	48	178	0.2	108	2	12	127
131828	5	0.2	32	131	0.2	68	3	18	76
131829	5	0.2	34	183	0.2	83	2	14	123
131830	5	0.2	27	163	0.2	103	2	12	125
131831	5	0.6	5	47	0.2	21	3	13	31
131832	5	0.2	2	104	0.2	27	1	5	46
131833	5	0.4	3	73	0.3	54	4	14	52
131834	5	0.2	4	78	0.2	18	3	9	35
131835	5	0.2	49	117	0.2	313	2	9	98
131836	5	0.2	4	62	0.2	22	4	8	36
131837	55	0.2	63	274	0.5	86	1	5	106
131838	5	0.2	24	311	0.5	90	1	5	96
131839	5	0.2	2	600	0.2	99	2	14	139
131840	5	0.2	5	259	0.2	124	2	24	163
131841	5	0.2	2	108	0.2	25	5	13	55
131842	5	0.2	3	141	0.2	85	1	2	83
131843	5	0.2	4	118	0.2	78	4	7	117
131844	5	0.2	3	89	0.2	60	2	6	86
131845	5	0.2	7	199	0.2	99	2	7	129
131846	5	0.2	3	72	0.2	31	4	10	122
131847	5	0.2	2	144	0.2	50	2	8	119
131848	5	0.2	4	134	0.2	65	2	4	106
131849	5	0.2	7	170	0.2	61	2	8	119

1991 SILT SAMPLES

SAMPLE No.	Au ppb	Ag ppm	As ppm	Ba ppm	Cd ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
9355	5	0.2	18	168	0.2	47	2	12	92
9356	5	0.4	20	508	2.5	44	4	10	251
9357	5	0.4	19	493	1.7	38	4	11	208
9358	5	0.2	20	384	1.2	35	4	4	192
9359	5	0.4	20	387	0.7	33	3	6	157
135639	5	0.2	6	1183	0.2	23	1	4	39
135640	5	0.2	18	356	0.6	86	2	26	105

1991 PAN SAMPLES

SAMPLE No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
135641	5	0.2	18	1	82
135642	5	0.2	22	1	90
135643	5	0.2	26	1	98
135644	5	0.2	104	1	32

1991 ROCK SAMPLES

SAMPLE No.	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Cd ppm	Sb ppm	Au ppb
125460	1	23	10	49	0.3	30	0.2	2	6
125461	7	314	2	93	0.3	58	0.4	2	1
125462	1	155	180	297	0.3	6	1.7	2	3
125463	1	489	4	43	0.1	8	0.4	2	1
125460	1	28	13	52	0.2	32	0.7	2	4
131674	18	152	3	39	0.2	39	0.3	2	7
131675	3	9	2	3	0.1	2	0.2	2	5
135386	2	822	47	3994	0.7	46	74.5	2	201
135387	3	4336	2	37	2.4	18	2.3	2	32
135388	1	817	2	76	1	18	2.1	2	11

- ● Soil sample
- → Silt sample
- ▲ Pan sample
- × Rock sample
- ⊗ Float sample

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,021

0 — 500 — 1000 metres
SCALE 1:10,000

REVISED	GIG Geology and Sample Locations

PROJ. No. 236 — SURVEY BY: RJB — DATE: DEC 1991
N.T.S. 104 G/2 — DRAWN BY: RJB — SCALE: 1:10,000
DWG. No. FIG 4

NORANDA EXPLORATION

OFFICE: PRINCE GEORGE