GEOLOGICAL AND GEOCHEMICAL REPORT

SUB-RECORDER	ON	THE	восн	AND	MAC	MINERAL	CLAIMS
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SIMILKAMEEM MINING DIVISION

NTS - 92H/9W

LAT. 49 34N LONG. 120 27W

OWNER: J.E. CHRISTOFFERSEN

OPERATOR: J.E. CHRISTOFFERSEN

REPORT BY: J.E. CHRISTOFFERSEN

OCTOBER 1, 1989.

GEOLOGICAL BRANCH ASSESSMENT REPORT

TABLE OF CONTENTS

	Lage
1.0 INTRODUCTION	1
1.1 Location and Access	1
1.2 Physical Features and Climate	1
1.3 Claims	2
1.4 History of the Claims	2
1.5 1989 Program	5
2.0 INTERPRETATION OF RESULTS	7
2.1 Regional Geology	7
2.2 Claim Geology	8
2.3 Geochemistry	13
3.0 CONCLUSIONS	14
4.0 STATEMENTS OF COSTS	16

5.0 STATEMENTS OF QUALIFICATIONS 17

Page

Figure	1	Location	Мар	after p	page	1
Figure	2	Claim Map)	**	11	1
Figure	3	Property	Geology Map	in poo	cket	
Figure	4	Property	Soil Geochemical Map		**	
Figure	5	Regional	Geological Map	after	page	8

LIST OF APPENDICES

APPENDIX I Soil Geochemical Data

APPENDIX II Rock Geochemical Data

APPENDIX III Rock Sample Descriptions

1.0 INTRODUCTION

1.1 Location and Access

The BOCH and MAC claims are located near Jura at 120 27' W. Long. and 49 34' N. Lat., some 300 km. by road east of Vancouver and 12 km. north of the town of Princeton (Fig. 1). Access is excellent year round. The property is served by a paved road running from Princeton to Summerland in the Okanagan valley. A network of old logging roads provides access to most parts of the ground. A CP Rail trunkline (Kettle Valley line) also passes through the property.

1.2 Physical Features and Climate

The property occupies the summit of a broad ridge separating the Summers Creek valley to the west and the Hayes Creek valley to the east (Fig. 2). The terrain is dominated by rolling grassland and parkland in the southern part of claim block passing into a thicker forest cover of pine, spruce, fir and poplar north of Christian Creek. Maximum relief is about 460 m. from Hayes Creek in the east to the ridge top at an elevation of 1250 m.

The climate is semi-arid, typical of much of the interior plateau. Rainfall is light, averaging about 50 cm (20") per year, largely in the form of snow during the winter. Summers are hot and dry and winters moderately cold.

1.3 Claims

The property comprises five modified-grid claims totalling 55 units in the Similkameen Mining Division (Fig. 2). Claim details are listed below.

<u>Claim</u>	<u>Units</u>	<u>Staking Date</u>	<u>Record Date</u>	<u>Record No.</u>
BOCH 1	10	Nov. 9,1988	Nov. 9,1988	3237
BOCH 2	6	Nov. 10,1988	Nov. 10,1988	3238
восн з	9	Nov. 10,1988	Nov. 10,1988	3239
BOCH 4	10	Mar. 31,1989	Mar. 31,1989	3282
MAC	20	Oct. 11,1988	Oct. 11,1988	3209

The BOCH 1-4 and MAC claims are owned by J.E. Christoffersen of 14070 Greencrest Drive, White Rock, B.C., V4A 2Y4.

1.4 <u>History of the Claims</u>

1.4.1 Early History

Early work in the area is recorded in the Annual Reports, Minister of Mines, B.C. in 1927 and 1928 on the Lucky Strike group. Exploration included the driving of three short adits and the excavation of several trenches on copper showings on the claims. Rice (GSC Memoir 243, 1947 and Map 888A) shows a gold occurrence in the same vicinity.

1.4.2 Kennco Explorations Ltd.

In 1959, Kennco carried out a comprehensive program on their FH group (B.C. Assessment Report 318). Their work included airborne and ground magnetics, soil geochemistry, I.P., some seismic, geological mapping, trenching and 744 feet of diamond drilling. In the Jura area, Kennco concentrated much of its effort on the Lucky Strike showings where an I.P. anomaly measuring 1500m.x 600m. and partly coincident copper soil anomaly were identified. I.P. and seismic data to the west of this major anomaly, in an area of continuous overburden cover (BOCH 3 claim), indicated the presence of a mantle of young sedimentary rocks of the Princeton Group overlying Nicola Group volcanic rocks.

Kennco drilled four shallow core holes into the I.P./soil anomalies but no geological and assay data are presented in the assessment report.

1.4.3 Copex Mining Corporation

Between 1969 and 1973, Copex is reported to have carried out trenching and some percussion and diamond drilling on its ELK and SLEEPER group of claims, now covered in part by the BOCH and MAC claims. However no public record of the company's activities and results is available.

1.4.4 Amax Exploration Inc.

In 1971, Amax completed geochemical, geological and magnetic surveys on its ROK group (B.C. Assessment Report 3189), which extended over part of the ground now covered by the BOCH 2 and 3 claims. No geochemical anomalies (Cu-Mo) of any importance were identified and the claims were found to be underlain mainly by granitic intrusive rocks of the Pennask batholith. A strong magnetic anomaly in the western part of the block was determined to be due to a magnetite-hornblende diorite.

1.4.5 Canadian Oxidental Petroleum

In 1978 and 1979, the company was engaged in uranium exploration on its large GLAD claim block in the Jura area. The company completed two holes in Princeton Group sediments some 300 meters south of the BOCH 3 claim. Indicated thickness of these Tertiary rocks is at least 425 ft (130 m.) below 40 ft. (12 m.) of glacial overburden at that point. One additional core hole drilled some distance to the west on what is now the BOCH 3 claim was abandonned at 56 ft. (17 m.) (B.C.Assessment Report 7795).

1.4.6 Count Fleet Explorations

In 1986, this company carried out geological mapping and rock sampling on the RATS claim (now the MAC claim) north of Christian Creek (B.C. Assessment Report 16135). The program outlined a zone of chalcopyrite-pyrite-magnetite measuring 150 m.x500 m. elongated in NW-SE direction and possibly open to the south east below glacial cover. The ore minerals occur as disseminations, fracture fillings and stockworks. Chalcopyrite and malachite were also noted in Nicola volcanics several hundred meters to the south in Christian Creek. Thirty rocks samples were collected for copper, silver and gold analyses but no assays were reported.

1.5 <u>1989 Program</u>

1.5.1 Geological Mapping

Geological mapping was carried out by the writer on a scale of 1:2500 as shown in Figure 3. The total area covered during the survey was one square kilometer. Grid control was established by compass and hip chain with stations at 60-meter intervals.

Rock exposures are generally poor and mapping was aided by an extensive network of bush roads and trenches in the western part of the map area covering parts of the BOCH 4 and MAC claims. The southern part of the surveyed ground is dominated by esker-like glacial deposits of unknown, but probably considerable, thickness.

1.5.2 Geochemical Survey

A total of 269 soil samples was collected over one square kilometer on a 60 x 60 meter grid established by compass and hip chain (Figure 4). The samples were collected by the writer in the period July 1-6 incl.in the course of grid geological mapping. Soil sampling assistance was also provided for two days by N. Ashley of Princeton during the same period.

Soil samples were collected at depths ranging from 15-25 cm. and placed in wet-strength kraft paper bags for shipment to a geochemical laboratory. Every attempt was made to sample the B-horizon although the soil profile is very poorly developed on the property.

The soil samples were shipped to Cominco Exploration's laboratory in Vancouver for geochemical analyses by atomic absorption for gold, copper, silver, arsenic, zinc and manganese. Analytical data are shown in Appendix I and also plotted on Figure 4 at a scale of 1:2500.

Six rock samples were collected by the writer (JCR series) and shipped to Min En Laboratories for gold analysis (wet chemical-A.A.) and 31-element ICP. Data are presented in Appendix II and sample locations in Figure 4.

Noranda Exploration collected 27 rock samples in the course of a two-day period on May 6/7 on the claims (samples R23101-R23128). The samples were analyzed geochemically for gold (wet chemical -A.A.) and 31 other elements by ICP at Acme Analytical Laboratories in Vancouver.

Analytical data are given in Appendix II and sample locations are plotted on Figure 4. Rock descriptions are shown in Appendix III.

2.0 INTERPRETATION OF RESULTS

2.1 <u>Regional Geology</u>

The BOCH and MAC claims lie within a major belt of Upper Triassic to Lower Jurassic volcanic rocks and comagmatic alkaline intrusions, which extend throughout the length of the Intermontane Belt in British Columbia. Several important porphyry gold-copper orebodies occur along the belt including, from south to north, Copper Mountain-Ingerbelle, Afton, Mt. Polley, Mt. Milligan and Galore Creek. All are associated with strongly altered alkaline porphyritic intrusions and related volcanic rocks. The Nickel Plate gold skarn deposit east of Princeton appears to be related to a more mafic suite of alkaline intrusive rocks.

Within the Princeton map sheet, the BOCH and MAC claims are located roughly in the centre of the so-called Princeton-Aspen Grove copper

belt (Fig. 5). The belt is underlain by a complex assemblage of volcanic rocks of Upper Triassic to Lower Jurassic age belonging to the Nicola Group. The volcanic rocks have been intruded by numerous plutons ranging from synvolcanic diorite, monzonite and syenite to Jurassic and Cretaceous granodiorite and granite. Several important gold-copper deposits and prospects along the belt, including Copper Mountain-Ingerbelle (Similco), Axe (Cominco) and Jura, are controlled generally by the north-trending Boundary-Summers Creek fault system, a regional structural break, and locally also by secondary faults striking north west, north east and east.

At Jura, a north-west striking structure appears to have controlled the emplacement of the Summers Creek intrusions, a lobe-like composite body of granodiorite extending from the main mass of the Jurassic Pennask batholith as far as Summers Creek. Porphyry-style copper occurrences are associated with small satellitic stocks of diorite and monzonite at Jura at the south-east extremity of the Summers Creek plutons.

2.2 Claim Geology

The area mapped, which includes parts of the BOCH 4 and MAC claim, is underlain by mafic volcanic rocks of the Nicola Group in the south west intruded by a zoned stock in the north east ranging in composition from a dark microdiorite border phase to a core of mesocratic monzonite(Figure 3). These intrusive rocks are similar to monzonitic rocks mapped in 1959 by Kennco in the area now covered by the BOCH 1 claim.



Terrestrial sedimentary and volcanic rocks. Pink and grey granite and granodiorite; quartz feldspar porphyry (OTTER INTRUSIONS). Volcanic breccia, andesite, basalt. Grey granodiorite, reddish granite and granodiorite, light coloured granodiorite and quartz diorite. 3a - Summers Creek Intrusions. Alkaline diorite, monzonite, syenite, 2a Gabbro. Varicoloured tuff, breccia, andesitic and basaltic lavas, carbonate rocks (NICOLA GROUP). Geological contact. Fault. Zone of satellite stocks near Summers Creek Intrusions. Important deposit. After Rice, G.S.C. Map 888A.

> SUNDIAL RESOURCES LTD. REGIONAL GEOLOGICAL MAP 10 km. ^{N.T.S.} 92 H / 9 Scale : 1:250,000 ^{Date:} March, 1989 J.E. Christoffersen P. Eng. Figure 4

Nicola rocks near the contact with the diorite are hornfelsed to a very hard, fine-grained massive rock, normally black in colour, probably due to the presence of much biotite. The hornfels is cut by tight fractures coated with epidote, some k-feldspar, pyrite and rare chalcopyrite. Magnetite is ubiquitous as fine disseminations in the rock.

Further to the south west, Nicola volcanic rocks exhibit more recognizeable textures varying from basaltic pyroxeneand feldspar-porphyritic flows and possibly crystal tuffs to fragmentals of either pyroclastic or epiclastic origin or both. These rocks have been variably altered and mineralized. Alteration minerals include k-feldspar and epidote commonly controlled by fractures and associated with magnetite, pyrite and some chalcopyrite and/or malachite. Locally, small areas of pervasive k-feldspar and epidote alteration are associated with disseminated pyrite and chalcopyrite. The overall sulphide content of the copper-bearing zone is low, in the order of 1-2% by volume at best.

The extent of the altered and mineralized zone appears limited to the west by relatively fresh basaltic fragmentals and to the north east by fresh microdiorite. To the south of the baseline, extensive glacial overburden precludes any estimate of the ultimate size of the copper-bearing system. One exposure at Christian Creek some 550 meters south of the baseline on the BOCH 4 claim line consists of a sheared chloritic and hematitic mafic volcanic rock but lacks any

10

sulphide minerals. To the north, the mineralized zone is also obscured by overburden. Two isolated exposures of mineralized basalt occur on a road cut about 200 meters east of grid line 9+60E and suggest that the zone is open to the south east. The outcrops are laced with numerous symmitic dyklets, implying close proximity to an intrusion to the east.

The structure of the map area is imperfectly known. A major N-S fault is suspected just east of the grid along a sharp gully. Elsewhere, small faults with no great apparent displacement strike E-W, NW-SE and NE-SW. Copper-bearing fractures were noted with strikes similar to all the above directions but with dips varying from shallow to steep (i.e. stockwork). The best grade sample obtained during this survey (89-JCR-6 - 3.0% Cu and 9.7% Zn) came from a shear zone striking 325 and dipping 60 east near station 4+80E, 3+60N. The shear zone is completely oxidized. Nearby, a sheeted zone of magnetite-pyrite-chalcopyrite veins and fractures has the same orientation as does a dyke of altered feldspar porphyry just to the east.

2.2.1 Lithologies

<u>Unit 1</u> <u>Basalt</u> consists variably of white feldspar (1-2 mm) and/or pale to dark green augite (1-3mm) phenocrysts set in a very dark fine-grained groundmass, usually rich in magnetite. Some of the phenocrysts are broken and, hence, the rock may be tuffaceous in part. Where exposed, basalt is commonly altered and mineralized. Alteration is fracture controlled and consists of earlier kfeldspar and later epidote associated with magnetite, pyrite and chalcopyrite. In more pervasively altered zones, k-feldspar and epidote replace both plagioclase phenocrysts and the groundmass, giving rise to a mottled pink and light and dark green coloured rock.

Basalt is hornfelsed up to 100 meters from the contact of microdiorite. Hornfels is virtually textureless, extremely hard and black in colour, locally with pale patches. Magnetite is ubiquitous and minor pyrite is commonly associated with epidote blebs and fractures.

<u>Unit 2 Basaltic Fragmentals</u> comprise a sandy to ashy matrix of feldspar and mafic minerals, possibly with some devitrified glass shards, with variable amounts of lithic fragments up to 20 mm in diameter. Fragments are usually subround to subangular and composed of green feldspar-phyric basalt and light-coloured micromonzonite. Some dark wispy inclusions may be devitrified glass lapilli. The rock is essentially fresh apart from minor local epidote.

<u>Unit 3 Microdiorite, Micromonzodioite</u> is a dark, even-grained (1-2mm) rock consisting of greyish feldspar (50%) and dark green augite and hornblende (30-40%), locally with some interstitial orthoclase. Rare buff-coloured orthoclase phenocrysts to 10 mm were noted at one locality. Abundant magnetite and traces of pyrite are accessory minerals. The rock is invariably fresh.

<u>Unit 4 Micromonzonite</u> is a mesocratic even-grained rock (1-3mm) made up of 30-40% light grey tabular plagioclase (1-3mm) and 30% green augite and hornblende (1-2mm) with 30% interstitial granular pink orthoclase intergrown with a little quartz. Magnetite and minor pyrite are accessory minerals. The rock is generally fresh apart from some chlorite alteration of the mafic minerals.

Micromonzonite mapped as a small mass on line 3+00E is variably porphyritic to even grained and is mineralized. It exhibits potassic alteration and may well be a strongly altered basalt.

<u>Unit 5 Syenite</u> forms a small body near the north end of line 4+20E. Texturally, it resmbles basalt and comprises 35% whitish pink feldspar (1mm) and 15% pale green augite (3mm) phenocrysts set in a pink aphanitic groundmass with much disseminated magnetite. Some of the best copper-mineralized rocks occur in this zone, including the highest grade sample collected in the map area. Hence, the rock is considered to be a highly k-feldspar-altered basalt.

<u>Unit 6 Feldspar Porphyry</u> outcrops as a NNW striking dyke near the north end of line 4+80E. It is composed of 20% buff-coloured orthoclase phenocrysts (2-3mm) set in a light grey finely crystalline quartzo-feldspathic groundmass containing a few tiny quartz eyes. The feldspars are weakly kaolinized but the rock is post mineral and probably related to the Jurassic Summers Creek intrusions, which outcrop to the north east.

2.3 <u>Geochemistry</u>

2.3.1 Soil geochemistry

The purpose of the soil survey was to help establish the extent of the copper-bearing zone beyond its apparent exposed limits and to identify the presence of other associated metals, especially gold and silver, and pathfinder elements such as arsenic.

A cohesive copper soil anomaly (+50ppm) measuring about 800m x 800m covers the north-central part of the grid area (Fig. 4), corresponding in large part with the better exposed part of the mineralized zone. The +400 ppm Cu contour correlates well with the higher grade copper area. One isolated anomaly of 2500 ppm Cu at 2+40E, 2+40S occurs in an area of glacial land forms and, hence, is probably transported. The copper anomaly is sharply bounded on the north east by microdiorite but may be open in other directions below a thick overburden cover.

Gold is below the detection limit of 10 ppb for most of the samples and the best sample contains only 40 ppb Au. Likewise, there is no cohesive silver anomaly associated with the copper zone. Arsenic is not anomalous in the map area. Manganese generally correlates with the better copper anomalies. Zinc is anomalous over a small area (peak of> 11,000 ppm) in the north-central part of the grid where a high grade (9.7% Zn) rock sample was collected.

2.3.2 Rock Geochemistry

The 33 samples collected demonstrate that significantly mineralized rocks are exposed over large part of the map area. However, as most of the samples are grabs, no pretense is made as to the "average" copper grade of the zone.

The analytical data confirm the low level of gold in the zone max. 38 ppb Au. - generally correlated with slightly elevated levels of arsenic. Silver shows some enhancement where copper is strongly anomalous. Several copper-bearing rocks are strongly anomalous in molybdenum (up to 309 ppm Mo) and molybdenite was identified tentatively in one sample (R23109).

The two highest copper analyses (R23119, JCR-6) are from the same site and confirm the high zinc (and cadmium) of the sample, although, as noted above, no sulphides are visible in the highly oxidized sample material.

3.0 CONCLUSIONS

The map area covers a copper-enriched zone with dimensions of at least 800m x 800m. The zone may be open to the north, south and south east below glacial cover of suspected substantial thickness.

The copper zone occurs in potassic-altered mafic volcanic rocks along the south-west margin of a zoned alkaline intrusion composed of diorite and monzonite. The overall sulphide content is low. Gold

is not enriched in area and silver exhibits some correlation with higher copper grades. Molybdenum shows spotty enrichment in the copper zone.

Further exploration involving geophysics and drilling is required to establish the limits of the mineralized zone outlined to date.

4.0 STATEMENTS OF COSTS

· _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

	<u>Totals</u>
1 a) Geological mapping/ soil sampling/ grid preparation	
- J.E. Christoffersen - 6 days @ \$350.00 (July 1-6)	\$2100.00
b) Soil sampling assistant - N. Ashley - 2 days	
@ \$125.00 (July 4,5)	250.00
2. Geochemical analyses	
a) soils- 269 @ \$15.50 for Cu,Au,As,Zn,Mn,Ag	4169.50
b) rocks- 6 @ 14.75 for Au and 31-element ICP	88.50
3. Mob-demob - J.E. Christoffersen - 1 day @ \$350.00	350.00
4. Accomodation - J.E. Christoffersen - June 30-July 6	239.38
5. Meals - J.E. Christoffersen - June 30-July6	188.16
6. Vehicle	
a) Rental - 7 days	411.07
b) Fuel	60.00
7. Field supplies	85.00
8. Report Preparation	
a) Map compilation - J.E. Christoffersen - 1 day @ \$350.	00 350.00
b) Report writing - J.E. Christoffersen - 2 days @ \$350.	00 700.00
c) Draughting - J. Winfield	585.00
d) Materials and supplies	25.00
9) Noranda Costs (per attached statement)	<u>1,432.31</u>

Total \$11,033.92

16

EXPENSES FOR MAC/BOCH CLAIM PROPERTY EXAM

Truck Rental	2 days @ \$40.00/day	\$ 80.00
Gas		\$ 43.00
Accommodation	2 nights	\$ 69.12
Meals for	2 persons	\$ 115.24
Salaries: Two geologists		
L. Erdman	2 days in field	\$ 300.00
	l day report preparation	\$ 150.00
K. Pearson	2 days in field	\$ 220.00
Sample Costs	27 rocks @ \$16.85	\$ 454.95

\$1,432.31

5.0 STATEMENTS OF QUALIFICATIONS

I, Jan E. Christoffersen, of 14070 Greencrest Drive, White Rock, British Columbia, V4A 2Y4 hereby declare:

1) I am a graduate of the University of Toronto where I received a B. Sc. degree in Geological Engineering in 1968.

2) I am a full member in good standing of the Association of Professional Engineers of the Province of British Columbia.

3) I have practised as an exploration geologist on a full-time basis for 21 years.

4) The information and interpretations presented in this report are based on personal experience gained in the course of carrying out the work programs on the property.



October 1, 1989.

STATEMENT OF QUALIFICATIONS

I, Linda R. Erdman of the City of Vancouver, Province of British Columbia, hereby certify that:

- I am a resident of British Columbia, residing at 2 2291 West 1st. Avenue, Vancouver, B.C.
- 2. I am a graduate of the University of British Columbia, with a B.Sc. (Honours) in Geology (1978) and an M.Sc. in Geology (1986).
- 3. I am a Fellow of the Geological Association of Canada.
- 4. I have been engaged in mining exploration for 9 years.
- 5. I have been a temporary employee of Noranda Exploration Company, Limited (no personal liability) since May, 1986 and a permanent employee since November, 1987.

Linda R. Erdman, M.Sc. Project Geologist

APPENDIX I

SOIL GEOCHEMICAL DATA

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58710537		+240	-240	12	10	1.5	2590	132	1610	11
SEV10540		+]4-)	-180	(19	10	1.4	AV5	105	44-)	21
58710541		+249	~).20	<10	10	4	63	97	ŶÛV	17

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39-02518 PAGE 2

Leb mi T	IEL.) NUMBER EAST Nest	+ Nosth+ - South-	• ₽₽₽	ht an Beak	ગર્મ મનવ	行行 中有利	】14 户户时	łki PFN	Å5 PPM
98910542	+24		(10	10	۰.4	51	144	1490	18
9391V543	÷41	6 -470	.10	10	ŷ,4	4)	53	$\delta (\phi)$	26
58910544	÷åß	0 -350	- (19	10	ι,4	》 。 激	63	315	24
\$8910545	+ 4) -30)	<10	<u>)</u> ()	9,5	1.2	$\langle i \rangle$	850	21
98716543	+46	9 - 249	(16	10	<.4	19	86	350	15
\$8910547	ևk	9 - 1 80	-10	ŢĠ	(, á	41	$\frac{1}{5},\frac{1}{2}$	850	12
58910548	+48	0	10	10	Ċ.6	56	98	870	12
38910549	· · · · · ·	0	14	10	0.3	59	ϕ^{i}	A(0)	14
98919550	436	() - 4?()	:10	19	:,4	27	83	480	18
的知道。	$\dot{\phi}_{ij}$) -Li(1.6	10	t, 4	23	52	450	7
\$8910552	r.39	6 - 398	(10	JŰ	₹.Å	22	41	349	12
\$8910553	ð£;4	9 -249	10	10	(,4	411	42	630	14
90/10/554	÷ Šú	0 -180	10	1.Ú	<.4	50	141	1220	11
\$8910555	+3,	9 -120	: 1 6	14	4	25	₫¢	810	20
53910556	F.].6	0 -50	(10	10	₹,4	61	4	730	15
统9165 55	ŝ	9 - 390	$\langle 1 \rangle$	19	. ,4	I.÷	45	423	13
B8910556	3	-240	< IV	10	(.4	61	52	405	13
98914559	*	0 130	. 1 0	10	.,4	17	γ_{2}^{\prime}	579	12
\$\$910560	ł	() -120	(19	10	4,4	16	35	660	11
SEFLOSAL	÷	0	.10	tů.	. 4	14	11	/ 413	ÿ
989165A2	\$? 0	0 -490	(10	10	<.4		Se	490	12
989105A3	+30	i -3a0	19	10	1. Å	41	57	560	14
98910524	130	0 -300	(10	10	الدر ا	55	- 14	489	17
\$9210565	F.Ku	0 - 340	.10	10	- 4	39	Ň	519	20
SE910564	430	(† - 138)	(10	10	4.4	<u>λ</u> 2	150	1180	18
98916565	420 420	0 -170	10	1.0	÷.4	ŔŸ	47	960	21
38916562	430	v 2v 0	10	10	(.4	74	44	410	26
98917447		9 - Laŭ	19 19	10		21	11Ŕ	440	14
SS916576		a -3aa	:10	11	(.4	25	102	1040	19
489-6621	in the	6 -1.16	(10)	10	с. 4	56	11	294	é
98976522	**	e -188	10	10	€. 4	26	12	RAR	10
98910573	÷6	5 120 6 - 126	:10	10	t. 4	26	.0	320	12
98910524	+4	0 -30	(10	10	; , , ,	7. v 1 <u>á</u>	14	405	14
48916575	447	n ta	(1) (1)	14	6.4	т.Й.		3.353	11
92910574	4.49 4.49	o 200 h - 200	- 10	14	(A	14	.11	1.47)	16
989125573		e ave 6 - Jah	/1ù	1 Å	5. A	·);}	29 29	350	x-5 Ŷ
92910572	440 440	a -128	(10	14	(<u>A</u>	ÁÁ.	112	1336	ģ
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98916526	447		20	2 P	A A	645 	74	440	4
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Gabilean Gabilean	ಿ ಕತ್ತಿಕ ಬ್ರೌಕ್ಟ್	9	×10 - 10	10	. j	1	-11	225	0 10
artav 2002 Rodi Aroa	170	7 (749) 6 (7116)	- A.9 - 7 D	1.V 1.L	भाग देखे	А. ² 3.1	99 90	7.99 68.6	2.5 3.62
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0071900 69076800	7/0 170	9 - 1399 6 - 1396	519 510	10	3.14 2. à	2. S 16 J	ינן. רט	UU. OAG	11
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44733979 00476867	学 指称 化公式	7 °40¥ 3 .24∆	510 792	1V 14	∖, 4	14	976 33	0-3V 400	10 10
39739373 99055660	学校寺 1113月	a 1#3₽ 5 524	- 15 	1V • A	9 i i i i i i i i i i i i i i i i i i i	20 21		479 755	14
00710J72 Damere	李靖華 1945年	¥ <i>06</i> 5 €	< 1V	19	1,4 	編 時 1915	*") 	04A	14
1571.V376 1995-203	+授4	0 ~,500 N	:10	10	۲,4	1. 	19 7	74() 1174	14
55710374	+84	a -24≬ S	× 19	10	<,4 ,	20	57	560	11
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37-02518 PAGE 3

LA3 M)	T ITER HUMARK	ëast i Nest-	но5 ти+ Souyh-	春月 日 9-8	nt àu Gram	Аб Ррн	(a) FPN	2n PPH	ћи Ррн	Á5 PPN
\$8910596		+340	-1.20	410	13	(, 4	57	<u>.</u>	512	14
98416945		+844 ↓○◆◆	**夜孽 4.046	< 19 . • •	14	. 4	55. 	4¥ 198	47.5	10
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0071V0V6 00015120		1000	"46 9 233	V I U	4.V 4.5	(,4) , i	37	37	029 66.5	17
DOGNAROUT -		T 799 1066	100 100	5 1 12 7 11 17	3.V 17.	1,4 	4 L	.(0 	309 636	12
3671V61V 86676511		4499 4499	.128	10	11	1,4	1/	-34 117	779	10
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36" 19913 - Alexandre /		主義尊敬	769 	19	11	1. 1. T.	0V0 0V2	210 • 00	2479 555	17
55710514		todij	1120	41	10	6.D	7£.	127	839 	14
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53710016		+660	† <u>∠</u> 4¥	110	10	1,4	21	1/07	34∨	12
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5571V618 Popradat		1000	136V (2010	12	10	4	10	<u>) (</u> 1141	аал АТА	Ċ,
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26719375 200557133		វាភូសូសូ លោកស	17.495U + 374	519	1. V	\ , .4	17	/7	1000	4
007140311 00016193		7.95V 1974	95.47 A1.4	5 <u>1 9</u> 	2.M 1. D	4 1	2,027 1,713	2.2 11 12 1	374 434A	4
3071V0ZZ - 9065-5122 -		1.31373 1.11.11	10 YOU	<10 NA	j.√ + /:	× • 4	107	1.)1	1349	1.X *
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00719924 60076178		10,349 10,55	3.469 7.200	1.1	- 4° ⁷ 6		27 1 Å	974 1970	1409 075	17 1
00728982 566677147		9.140 1645	Y 2.11V 1 1 - 144	A.: 11 :	49 40	5,4 17 4	1+ 41 1 ()	144 1442	709 1000 a	ن 1 د
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007134627 19903-0770		17.149 13	*3999 + A	5 k 9 2 k 4	3.W 4 4.	5 74 2 4	1. Č 1. Ú	-312 -012	07V 030	1.) 1.)
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0011V0000 86617473		1 (14) 1 (14)	7V +0	10	10	5,4 5 å	170 155	999 113	079 1895	14
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0071V0-00 - 0071V0-00 -		±435	τų 50	< 10 < 10	10	λ ι † Δ φ	162	110 (19	1711	11
Gertveer Coortine		140h	- V 4.5	17	1.5	5 1	л са 4 ф (5	1.000 1.010	1449 1916	40 10
096379659 903176699		1409 4534	×0	47 210	LV Là	4.4		EX. So	470 470	10 10
007120007 00016445		1049	10 10	- 10	1 Å V 1 Å	5 4 7 7 - 4	27 27	1 in á	1940	14 2
Goottian. Goottian		4149	-0 -0	• K ¥ • ¥ 1	10 10	۳.»، ن و	or Yah	1119 111	2210	л у Д
00718041 000181a0		1947 1947	77 20	20 10	4V 10	200 2-4	5 V V 5 S	210	9489 705	0 0
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20719344 800×6144		704V 109.1	7 Ų ⊼∆	5 15 5 1 4	19 14	5.4 2.5	20 24	ារ លោ	07V 09/5	10
2071V643 20616141		1774 2010	7Ų 10	\ 1 V / 1 O	(V 14	5 2 4 2 - 5	.34 140	97 194	129 626	7 0
2071V940 00013743		10. 10.	₹¥ 	519 238	. 1V 1A	× ₃ 4 . ∠	1.4. 3.6	7 L (17)	909 926	7
20719642 00016240		中学作校 11月1日	75¥ 1105	(1)) 7 1 A	1.V 1.4	4 , 3	17	517 .56	1010 1010	10
367).¥043 00057.146		中学育時 1117年	11/V 11/V	419 719	19 • 2	5.4 2.2	14	3 5	1010	11
36715044		4.4.9M	主人 可以	1.1	1.V	÷.4	1.6	6	11.30	

89-02518 PAGE 4

LAD NG	E TELLO HANHDER	EAST? Nest-	Нов ти+ South-	मेग हहह	ht au Gran	iks PPM	ÛV P pm	2h PPM	fin PPH	65 Ppm
98910350	a, v, ar , ar , an , and a an a	+V60	1240	< 10	10		12	47	570	14
\$8910351		1 969	439 0	(19	10	<u>(</u> ,4	78	37	729	10
\$6910352		+969	+3 60	(10	10	4.4	1 13	83	1080	13
S6K10357		+10V	+430	(1 9	10	š., 4	3b	31	羊芋()	10
SPP10354		+ 960	+480	〈1ウ	19	. 4	Ý	32	284	19
98916555		4 400	÷240	$\langle Y i \rangle$	10	. 4	22	Υ. Έ	35.0	ý
58910558		+600	+n0	13	10	८ , म	-57¥	242	2750	14
98716352		+50	1120	្រុស	10	4	28	133	1630	ý
98910358		$\gamma \phi i)$	+180	<1ý	10	< , 4	44	124	2540	1
58910659		+đý	±_}4(;	(I ()	10	1.4	33	166	1030	10
98910360		± 60	+300	(10	10	<,4	65	132	1590	11
9891066)		- the	南美丽袋	(19	ΙŴ.	s , \$	61	32	1540	10
88910662		+69	+420	(10	10		23	39	400	9
58910683		1.00	$\langle \phi \rangle \langle \phi \rangle$	12	19	(₁ 4	31	à,	ផ្នំផ្ទំព្រ	9
98910664		+840	+	(13	10	4.4	31	67	390	8
98710565		\$ 84.)	÷1.20	(10	10	÷, 4	27	36	850	ιΰ
08910363		+840	+1%0	<10	20	4	27	74	1160	14
58716687		+849	1.140	(10)	λŲ	1,4	28	dh	1150	14
58910463		+340	+300	10	10	4,4	33	72	1130	13
58910867		(HAV	14.70	(10	14	1,4	17	30	\$20	14
88916470		+K4()	+350	(10	10	(,4	25	25	770	11
S8716471		+1(4()	+480	<10	10	ù.4	13	28	720	ý
58910.77		+4%)	450	10	1ô	(220	122	1410	11
98916474		2476	¥1.70	115	10	4	120	115	780	12
92916374		+420	4130	(10	10	. 4	141	138	980	14
48916875		4.170	4241	110	1.0	. 4	1120	152	150	14
SEVENSYA		4493	- 1300)	<10	10	<.4	245	125	1820	18
989121077		÷410		43	10	<.4	114	438	953	38
99916479 99916479		4420	4 <u>4</u> 00	(19	10		31	40	243	21
48916A72 -		4426	÷4:10	(10)	2 4 0 10	; . 4	15	24	¥40	18
98916486		49/66	+40	: 10	10	<. á	24	22	340	ý.
uuruvuuu Martinkii		44 (i))	54.745	:1ù	Lů.	5 S	20	94	(14)	9
eren azen -		4400	41×0	10	10	4. 4	:7	35	390	, 1
destage		1910	494b	10	10	(. 4	17	1	700	Ŕ
REPIARE		4980	4.408	110	10	4.4	19	72	1080	6
48916365		+∳0ú	4360	: 18	10	. 4	Ĵ)	-15	740	12
99910483		4966	4£90	ti)	lil		ų.	53	520	14
98976367		490a)	6-41-41 1	(10	10	t.4	11	NA NA	740	11
GRUTALER		1725	41 2A	6 T.Ĥ	14	6 Å	ŔŔ	136	1210	
00-10-00 000-14-00		4.) (h)	- 144 - 3 48	14	1.1 1.1	4 4 4 6 - ±	90) 10	111	170	16
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00/12/07/		1769	47.79 4700	- 1V - 1 A	10	 4.4 4.4 	27 94	7 V 24	1020	
467.8967.8 Dénis 67.69		172V 472N	1.009	- 82	14		: K	1/17	396	22 24
20719072 20719072		17779 17779	r (40.9 X A BA	-19	1.4 1.12	1.1** 2. j	3-9 1911	199	1050	ن در ن
00735070 00046.003		17435	144V 1400	× 1 V 7 7 G	1.V T.D	· • •	2 V 74	94 194	1.9440 1.9440	11
00710974 0903-5505		7729 270	T#0¥ \\\\	5 1 C 5 1 C	10 17	•• •	23	াৰ মেট	2900 290	4.4. 7.5
26419073 86619393		2013年上 1月14日 1月14日	704 123	VIV 216	2.12 2.13	5 g M 2 - 3	22 716	23 101	7497 1496	1.4 7 (1
000101070 000101070		¥469 ∡165	THU Lành	- 4 Q	19 13	5. 2 4€ 2. £	210	177 17	711 711	۸.۶ ۱
88738371 8843830		7399 5765	不可得到 法 2 代表	ч. ЗА	4.V 4.25	1,4 (1,1)	ार १ म. १	-93. 3 4 4	140 1040	0 0
6669 7799 987 19948 -		1.0VV	우 4 교황 13	ZM + 175	11 1 h	2.1	X - 14 - 175	104	्रम् र 1 2 रे	0
36719377 100010265		7 30V 10 AA	763V (*144	511月 211月	11日 11日 11日		3.2V 12.4	1.20 1 = 12	8.8.35 5.6.1	7
00717/4V		*3 VV	*129 1.125	5 X V	1.1	5,4	35年 1355年	111	2015 5 (m.)	ڻ
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lan nu	F111.0 和/P04.8	EAST) Nest-	noatut South-	âți PPB	нт аф Бвал	Â6 Per	ûr PPH	299 1991 1995	ни Ррм	As FPM
58910764	, , , , , , , , , , , , , , , , , , ,	+300	+340	(19	10	9,4	72)(¥(9i)	14
58916765		+ 780	$\pm m_{\rm e}$	(10)	10	√.4	2-2 190	r_{j}	330	14
58910706		+ 280	+1.20	<10	ĹΫ	. 4	24	74	370	18
98916767		4286	+130	(10	10	÷.4	27	21	1110	21
35910708		+780	+240	(10	ΙÙ	×.4	31	.)r ⁷	760	ÿ
18910×109		+ 780	+30Ú	(1)	19	4	25	$\sum_{i=1}^{n} i i j = i$	1200	11
38910710		+280	± 3.50	<10	10	ζ,4	27	33	1320	13
13910/11		4 080	44 ? \$}	(1))	10	(,4	21	àk	830	ţ4
S8Y10712		178V	+ 430	410	Τŷ	4,Å	13	33	\$30	11
8916713		+220	rs0	(10	10	1.5	386	103	1100	13
18910714		45a0	4:50	10	19	1.9	1370	154	2490	14
18910215		+600	+1.26	(10	10	<u>.</u> 9,4	150	254	1560	14
8910714		+600	i 180	(10	10	0.6	149	171	1370	1(
编》(6月1)		2600	+240	19	10	<	24	117	\$10	į.
38916218		£600	+300	(10)	16	6.7	20	75	636)	ė
19910219		+ ((h)	63.40	: 10	10	(,4	13	11	1120	Á
88916726		+30/)	4420	111	10	: <u>4</u>	17	117	1150	ÿ
199162721 199162721		و يود . (داره ب	54HU	(1)	(i)	6.5	23	112	1200	i d
1991/17/23 1991/17/23		4100	440	16	10	6 5	ړ. ۲۰		276	ģ
20710762 10010762		1 A A 1	43 K	 X M Z T () 	10	1 A	7.0 7.6	30	400 400	
1071 AV72 3 2001 AV72 3		4 4 4 5 4 4 1 ()	4419 4190	- 5 V - 7 D	2.9 7.15	6.5	4.2	04 01	1000	2 A A 7 C
1997 1978 77 965 (1992		1 X X V 1 X X V	17.3V 42.53	> 1.9 1.6	19 12	¥7-3 2 - ¥	24		Q.WA YAAAA	<i>د</i> ي ن
1071.972.9 5666.67497		7321 1740	724V 2966	- 7 M 1 M	1.5	5.4 6.4	.00 80	1 74	122.V 122.6	, ن
2003-175222 - 2003-195723		* 1.29 5 145	7.309 (175	> 19 - 16	а.2 Т/2	97 4 7 5	47 11/1	144	2002	7
1011972 - 5661 62766		7 1.KV 4 1 1 1	1.25V 1.100	\ \$ V . • A	۶V ۱۵	\.** * \$	4.4 1°2	04 1740	279 088	14 14
1971V/26 - SostA-20a		*124 1110	14/V 14/10	19 10	10	5. 4 7.5	17 126	190	709 110 A	1
1671V-27 1955 August		主義会社	243U 1430	- 19	1.N • 1:	· 1,4	20	511 213	1211	1 0
16719739 Natabilia		+180	- 4 950	(10	1.0 1.0	1. 1	1.5	14 13 3 6	340	13
NY LUCAL Society State		★1月8日 ◆1月8日	14.20 1975	13	[U	i i	436	2.20° v	1470 - 076	14
38410732 - Novelend		+189 • 189	1360	29	. 4 ¹¹	1.15	-47ŋ 100	្រាំ	2269	11
8719 (33) Nationalis		★【44代 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	*44 11	× 10	1.0	1,4	2	110	关章型 <u>分</u>	1
18719754		+140	+120	10	10	9.4	44	191	1430	8
RATO (22		4189	+196	419	1.4	. , 4		35 51	1150	11
8210736		+1.60	1240	<10	19	4, 4	4.5	5	1450	ÿ
64(033)		* []秋诗	+2:3Q	. 10	10	€,õ	7¢	.14	1310	16
3910738		448Q	+120	(10	10	0.7	268	36	778	4
16 51,0233		÷.	⊁e0	(1)	19	ý, †	27	112	1020)	5 10 10
8916740		+Q	+120	<10	10	0.5	20	52	960	17
1991(¹⁷⁴)		4i)	+130	<19	$\lambda \hat{0}$	0.4	27		849	ó
891(742		4Q	+246	(10	10	V.5	19	41	Ý1 0	Ý
8910743		÷į,	$+3\psi\psi$	110	1 C	♦,4	22	.i.i.	450	12
8910744		+	+3.50	< 10	10	9.5	12	<u>ъ</u> ў	720	8
18910245		ъQ	+430	$\langle 10$	10	1.4		$_{0\lambda}$	44()	Ą
8910746		+460	+130	<16	10	1.2	580	130	<u> 230</u>	4
891(034)		44H)	+24¢	(1¢	10	1,4	1170	113	2470	ý
18710748		+ 480	+300	<10	10	2.1	2300	E11000	3030	10
12710749		十日序行	$+ \frac{1}{2} \epsilon_{\rm e} \lambda_{\rm e}^{\rm c}$: (0	10	Ų, 4	23	135	1440	6
8919750		+480	+420	<16	10	1.0	18	34	1190	11
8910751		$\frac{1}{4}$	}4i;iù	×10	10	5.4	25	45	630	?
18910752		+240	+50	<10	10	0.5	285	115	1139	e J
8916753		4.240	41.20	< <u>1</u> 0	10 10	€. A	334	2 9	1010	14
ie910754		4740	41RÔ	(10)	1ù	ζ_ 4	42	104	1210	17
NATES AND		4 (A)	4741) 4741)	(18		(<u>i</u>	91	199 202	314	ar I Ý
10イムシイママー 20身子が注め。		1040	1277 4300	140 (14	** *A	:, (4 X 4 Y	29	02.9 196	11
1511 V + 20		• 7. 4.5	1.1211	7 T.A.	۸V	5 e T	ز.بي	1.	<u>-</u>	h.C.

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LAN NO + FILLO NUMDER	Epst+	North+	uk	ht âu	ag	90	ir	ні	Á5
	Nest-	South-	Bea	gran	PPM	849	PPM	Ррм	PPM
38910758	+240	+420	(10)	10	(,4	21	-37	850	14
88910759	+240	+480	(10)	10	(,4	15	-52	380	11

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. *4*,

- Fransuppercent sample definall source Emercenne calleration. Chefing checked. Repeated

IF DEDUESTED ANALYSES ARE NOT SHOWN PRESULTS ARE TO FOLLOW

翻起 日白石 植白树的

AU ADUA REGIA DECOMPOSITION / SOLVENT EXTRACTION / AAS

WE AN THE WEATHET OF SUPPLY TAKEN TO ANALYSE FOR SOLD TREATMENT.

As 20% HNUS peromposition 7 AAS

Ev 20% KNRE DECOMPOSITION / AAS

2N 20% RNUS DECOMPOSITION / AAS

BN 202 HNUE DECOMPOSITION / AAS

AS PREDSHIPHATE FUSION / COLORIMETRIC

APPENDIX II

ROCK GEOCHEMICAL DATA

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 GRAN SANPLE IS DIGESTED WITH 3NL 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 KL 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: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SAMPLE#	Ho PPN	Cu Ppn	PD PPN	3n PPN	ÀĢ PPN	Nİ PPH	00 29%	Mn PPN	Fe %	As PPN	U PPN	AU PPM	TH PPM	Sr PPM	Cd 2 9 M	SD PPN	BI PPN	V PPN	Ca ł	?	La PPM	CT PPM	ōK \$	Ba PPN	Тi २	B PPN	Al 3	Nā ž	š	W PPN	Au* PPB
R 23101	22	926	9	52	. <u>9</u>	7	23	968	5.02	12	5	ND	2	74	ì		6	107	.95	.124	8	4	1.59	68	.12	3	1.75	.11	.57	3	4
R 23101	24	1533	8	66	1.7	7	16	917	4.29	10	5	ND	2	103	1	2	2	108	1.42	.125	6	4	1.26	\$1	.14	5	1.59	.10	.45	4	1
R 23103	ģ	2521	6	39	4.5	6	18	746	5.08	12	5	ND	3	56	1	2	1	103	1.09	.126	8	3	1.08	86	.09	2	1.49	.09	.45	3	3
R 23104	46	781	9	107	1.1	6	14	1418	4.78	9	5	ND	5	81	1	2	1	104	2.54	.132	11	5	.90	125	.04	14	1.52	.06	.46	2	5
R 23105	309	2193	39	245	3.5	7	16	1453	5.93	7ġ	5	ND	3	50	2	18	2	53	2.13	.103	9	3	.13	87	.01	ó	1.14	.02	.35	1	21
R 23106	10	612	10	143	.1	5	13	1144	3.83	17	5	ND	3	88	1	2	2	96	2.45	.114	7	5	1.15	52	.11	5	1.58	.11	.26	5	2
R 23107	1	55	8	124	. 3	3	14	1285	4.84	3	5	ND	2	66	1	î	2	78	1.77	.092	9	3	.11	383	.07	5	2.07	.08	. 35	1	1
R 23108	21	1221	9	130	1.4	7	17	1012	4.42	16	5	ND	2	106	I	1	2	117	1.25	.132	6	T	1.60	47	.12	5	1.31	.08	.23	3	3
R 23109	147	2943	14	125	4.3	-	16	1117	3.89	14	10	ND	4	109	1	2	2	99	2.12	.114	5	6	1.23	50	.12	3	1.63	.10	.29	3	3
R 23110	2	364	6	96	.:	56	23	971	4.62	11	5	ND	3	168	1	2	2	141	2.17	.196	1	105	2.69	90	.14	15	2.26	.08	1.25	3	1
R 23111	13	977	62	70	6.5	13	8	582	5.11	46	5	ND	4	169	1	3	3	108	. 27	.170	9	105	. 47	77	.02	13	.95	.03	.50	1	23
a 23112	1	97	20	105	. 1	40	18	1437	5.08	20	5	ND	2	105	1	2	2	136	2.52	.163	7	75	2.45	61	.12	3	2.07	.05	.85	1	6
R 23113	1	20	9	211	.1	56	23	1821	4.91	15	5	ND	3	178	1	2	2	157	3.52	.196	11	107	2.32	17	.10	3	2.24	.05	.89	1	1
R 23114	4	4142	15	382	2.6	58	27	1842	6.18	9	5	ND	2	84	2	2	3	139	2.04	.198	11	121	2.14	60	.12	4	2.17	. 03	.17	3	3
R 23115	28	1096	52	117	3.7	14	15	1172	7.58	48	5	ND	3	127	1	2	2	151	. 44	.174	10	39	.68	74	.03	8	1.35	.02	. 45	1	22
R 23116	40	6156	10	75	3.2	3	27	905	5.03	12	5	ND	1	68	1	2	9	117	1.56	.145	6	9	1.46	55	.11	2	1.67	.05	.35	3	15
R 23117	2	682	20	1576	. 8	50	24	1605	5.85	14	5	ND	3	101	î	4	2	147	1.25	.213	8	91	2.80	65	.11	2	2.22	.04	.58	1	1
R 23118	73	1461	98	809	, 4.3	28	12	1211	3.52	43	5	ND	3	120	7	12	3	133	.37	.234	15	83	1.29	111	. 0 2	8	1.61	.02	.43	1	38
R 23119	93	8102	47	64404 4	14.8	32	31	2495	13.11	38	5	ND	3	39	956	2	26	106	.61	.132	6	32	2.89	14	.05	2	2.39	.02	.06	5	13
R 23120	27	82	90	644	.2	3	2	339	1.35	3	5	ND	12	12	5	2	2	5	.08	.009	28	4	.06	123	.01	7	. 45	, 02	.22	1	11
R 23121	2	396	8	396	.1	5	25	1063	4.70	14	5	ND	1	117	3	2	2	132	1.21	.174	7	3	2.53	84	.15	6	2.25	.08	1.03	1	3
R 23122	40	2374	19	192	4.0	54	28	1588	5.87	13	5	ND	3	96	1	ģ	1	169	2.09	.198	15	120	2.46	5 1	.12	3	2.23	.03	1.24	1	3
R 23124	10	607	56	787	. 8	64	27	2214	5.90	24	5	ND	2	102	2	2	2	211	1.15	.201	11	139	3.35	64	.15	2	2.51	.04	1.23	1	4
R 23125	21	2478	15	201	1.4	56	25	990	4.57	15	5	ND	1	152	1	2	2	143	2.12	.197	6	109	2.64	55	.14	4	2.15	.04	1.08	1	3
P 23126	2	777	10	148	.9	59	25	1058	5.18	12	5	ND	1	132	1	2	2	153	1.65	.195	7	117	2.79	11	.16	2	2.30	,05	1.33	1	1
R 23127	4	1093	11	175	1.5	55	24	1078	5.07	10	5	ND	1	132	1	2	2	153	1.38	.191	9	112	2.57	69	.14	2	2.08	.05	1.05	1	1
R 23128	29	1787	27	151	2.6	57	25	1297	5.45	14	5	ND	3	196	1	4	2	168	1.81	.202	11	127	2.93	60	.13	3	2.37	.03	1.11	1	5
STD C/AU-R	17	50	41	132	6.8	70	30	970	4.15	36	24	ī	39	52	17	15	19	60	.51	.089	38	56	.91	175	.07	32	1.91	.06	.15	11	480

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- ASSAY REQUIRED FOR CORRECT RESULT -

COMP: SUNDIAL RESOURCES

MIN-EN LABS ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 9V-0674-RJ1

DATE: JUL-14-89

ATTN: J.CHRISTOFFERSEN

PROJ: JURA

(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM * (ACT:F31)

	SAMPLE NUMBER	AG AL PPM PPM	AS PPM	B PPM	BA PPM I	BE PPM	BI PPM I	CA PPM	CD PPM I	CO PPM I	CU PP M	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO NA PPM PPM	NI PPM	P PPM	PB PPM F	SB SI PPM PPI	R TH 9 PPM	U PPM	V PPM	ZN PPM	GA PPM F	SN PM PP	W CR M PPM	AU I PPB
	B9JCR1 B9JCR2 B9JCR3	2.5 14880 7.4 15940 5.9 25900	8 14 16	1 1 1	40 61 74	1.3 1.6 1.9	8 138 6 179 9 35	840 940 710 1	6.0 7.1 0.2	31 10 59 40 34 20	076 ! 272 17 882 (53240 20750 62280	2330 1510 1170	1 1 1	5320 6040 2360	800 1176 5270	51 790 50 520 15 540	10 1 20	1530 1600 2970	26 38 85	1 3 3 4 3 10	9 1 3 1 0 2	1 1 1	222.9 234.1 274.6	78 102 365	1 1 2	1 1 2	2 79 2 84 2 78	20 35 5
	B9JCR4 B9JCR5	6.9 24690 3.6 28690	5	1	69 49	1.9	7 27. 10 27	300 760	8.5 9.5	43 50 45 10	246 671	64800 56330	5070 6690	1	7920 0940	1357	49 380 16 430	66 63	2790 2720	60 41	6 13 1 17	9 1 4 1	1	262.0	104 145	1	3	3 180 3 185	5
	89JCR6 89JCR7	36.8 20890 	9	12	9 7 - 65	2.0 1.5 1-2	1 44	460 149 250 1	3.3 8.3 3.6	58 30 22	062 20 308 - 320 -	06940 42880 - 59610 -	170 1520 2670		21890 7 18500 - 1960 -	2328 - 560 - -610-	163 90 	<u>48</u> 1	1260 920 1730-	158 - 31- - 10 -	44 34	4 1 3 1 4 2	1	101.5 72:3 212.5	96721 	<u>3</u>	2	2 54 2-177 2 61	20
	DYJÇKO	2.3 23900	12	1	50	1.2	· · · · ·		5.0				2470					•					•	21213	042		•	2 01	
																													
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APPENDIX III

ROCK DESCRIPTIONS



ž, È -W 200 3 2 CROSBY DUVER B (Trenci atches Cread 500 6 koch ŧ Ł tins シア = starter Sosro ð 5 scen ctered 2021-2 antical Encl 6 Ś 5 lu U suphida 4.00 K Ŋ 2650C 1/blice Q 3 KED Frack 65-24979 1 192 50 broken T フシー interse (DOC) condor Y Aury 20 Uner 89-75-23 maladide × 0/ beschip 6220 - Shree Cercits 455 Cet th Fee o Some 50 mc で Fall 0 (este 6 Ł ł

Chine of Conflight and S Fires of CR-M O- Hoint amonganite - composed of Zoned is had prot fsp (60%) & small study strong the - co. althe E ~ 0.5 % DY X pssilly # p ; hay patches of mal.; green augite (20%) to 1-2 mm and 10 % Cp - much dissem mt grains after fisp; weakly magnetic; some fracts filled & cardole; somass is fig. integroun Aug \$ 1909 fspr matics: CR-B-green fragmental & frags of dkgrown CR-150 mesocratic 9+3-tsp porphyry f.p. and umonzonite (also E. dk f.p. Ares) to 20 mm; subround; matrix is sandy - indistinct pink for \$ (25%) to 4mm mixture of for x matrics ; locally A. mits fresh 4 5-10% gassy gt eyes (1-3mm) in aphentic met groy gamess & tiny black matits CR.9 - groom fromwordel - frass mainly dk.gn. specks; fresh but E limon the skin f. p. & some H. coloured & monsonite; some Ange Look like & mall lepithe ; materix gritty CR-15 @ - ang- the porphyry - mainly At. sreen partly wralitized hbe (35%) to 3mm, some to ashy E for a de matic fass; possibly Some shards + fresh showing Boned core set in aphanitic pint gomass: 5-10 Lepidor blass masses -CR-10 @ green Fip & white + sumer Fand to Mon-magnetic Imm; one small angular fies (15mm) of mone & dissem pt; fresh; 2 de reen stp. 5 ashite And to Imm - frags of lence in monzonits + crossoled F.p. = pink freed, 4 ht Marky NEVILLE CROSHY IN NEVILLE CROSHY IN

.

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Man and Boch. Princeton

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N.T.S. <u>92409</u> DATE <u>May 6/89</u>

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE				ASSAYS	i		SAMPLED
SAMPLE NO.			WIDTH						BY
2 23101	Valcanic - medarca (ES) - is S. Reddish brown lareavil area	Grab							r. Plarse
- <u></u>	multiple and the last the second seco				· · · · · · · · · · · · · · · · · · ·				
	Marchite present along strature surfaces on weatheres surface	e k				-			
	- Plazioeluse, K. spor, magnetite, epidate as spots								 **************************************
	blotches, magnetic. Henshite/ limonite, at drill hold								
	#9								
R 23103	Volcanie TUFF- FS Pink/bropenylowers- W.S. Reddid.	chin	d m						1.
	breas from production of the production of the second								han an an an Anna an Anna an Anna Anna A
	up to 2023 (agrochese! epidote this part sumple								
	malachite on weatherd surfaces. Hemotite								 *
	strining on weathered surface								
	Magnetite very lingly disseminated thereforent sample								
	Brance LP etachicias under about 50 and at					1			
	Nayman a could be a for the contract of the preserve								
	I COTTO N.L OF Trench D								
23/24	Iténch 8								 1.
	Volcanic - F.S. Grey Breen W.S. Reddist	Grab							
	brown / grey								
	- machinitic Loching aleginglass Elman								
	property perfore = pricipaciose (ma-					+			
<u> </u>	epicione, bemakie staring				-				
	Maluchite on fracture surface		ļ						
	slightly unagretic								
					,				 <u></u>
				· · · ·					
	1	l	I			1	L		

PROPERTY Mac and Bach

N.T.S. <u>92409</u> DATE <u>May 6/89</u>

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH		ASSAYS	 SAMPLED
						BY
23102	Nolcanic tull with very Lew visible	Graft	3mx2.5m			L. Erdini
<u> </u>	trampato: Eural mala hito on such	J	3			
••••	and/as in the andrew we there Pirita					
	anaror lasig sugar wearing this					
·	1's closs on fractione surfaces, youre					
	chalcopyrite associated with the pyrite	ļ				
	Aproximately 2% Total sufides. Kare < Imm					
	eihedral magnetite and magnetite in verifiets.					
	10% epicture.					
23107	Volcanic tuff, indistinct fragments to	Chip	àm			L. Erdmi
	1 cm large but generally smaller. Overall					
	Hine grown size. No visible sultides, no					
	malachito stain. Vague laminations					
	at 000/12W					
	,					
23106	Epidote altered volcanic tuff. Slightly	chip	din			L.E.
	magnetic, no visible sultides. Some	1				
	molashite stain on trading sentaces.					
	Feldman and altered to a give					
	(Appen (Kasan) Propulitie allegitien					
	This same and plant in cliff directly					
	The sample is could in city areally					
	nerons samply site astor			· · · · · · · · · · · · · · · · · · ·		

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Mac and Boch Clouins Princebon B.C.

N.T.S. <u>92409</u> DATE <u>May 6/89</u>

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAY	5		SAMPLED
							BY
R23105	Shear zone suple - Trench 8	Grab	ROCM				K. Planso
	- fine - med grained / chargen in part						
	- rust- color - snipel - Scan forgue ts						
	lincorported along (volcanic progreets).					ļ	
	- upproximate attitude of shear zone: 229°/34°NW.						
R Z3112	Volcanic - W.S. tost brewn 1 F.S. clarkgrey 19100	Grab.					11
	to reddish (piskish) med grey year						
	K-sper abundant, spidate through and sample						
	-plagiocluse present - perphyritic bythere.						
	- Depoite disseminated < Imm in size - thoroughent						
	Sumple. quite magnetic.						
	· chlorite / carbonitie in past						
	-Trench 5.						
R23111	Skear Zone - Trach 6						1:
	clayey/ stightly pelobly						
	orange beiege in color.						N/1-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
	~ 30 cm mide - exposure length ~ 2m.						
	shear zone attilude 219/58° N.W.						
	From Footwall	<u> </u>					

PROPERTY More and Boch

N.T.S. <u>92409</u> DATE ______ 6/59

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH		ASSAYS	SAMPLED
						ВҮ
23108	Roch looks very similar to 23106.	Chup	In x0.75h			L. Erdmi
-	Volcanic tuff: onliteldspans, epidote					
	alteration. Minor malachite on traduce					
	planes one "clots" of pute (2mm)					
	with a trace of chalcopurite and					
 	covellite. 1					
23109	Highgraded from tallyspile below o/c	Grat				L.E
	described as 23108. Some of the talus	V				
	pieces have then (up to "year) quarter					
	vers which are subparallel. Vers					
	contain streaky and desseminated					
	pyrite and adjacent to the veins					
	are areas of mulachite. Grey coloned					
	soft mineral dissem in the proh					
	at me logation, perhaps chalcoute or					
	molybdenite.					
	J					
23110	Very fraduced, chlouilized Jelonan-	Chip	asm			L.E
	pyroxino crystal tuff. Feldspurs 20%	1				
	enprene = 2%. Fractices in all directions.			-		
	plichensides on some sugares. Malachite					
	stain on some fracture perfores. Culvite					

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Fropi

N.T.S. 92409 DATE May 7/81

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	 ASSAYS	 	SAMPLED
						BY
R 231124	Volcanie . W.S. davk grey Icreen	Grab			k	K. Pearson
	F.S. dark oren. slightly sorphyrity					
	plas present - very chlority - small					
	Uptus =1mm cuts some pla and appear to					
· <u></u>	Port out and co some predate appent		1			
	come dias and has a milatile is samely					
	hit source		1			
<u> </u>	Contraction (a dente) Mela dite on					
•	Carporatelius (aromater, recenate on					
	windbard support trench b					
R 73115	Star 2 1 have the Alf				 	11
<u>r = jiip</u>	Sherry Fore - G3 before, Trench 6	01210			 	
P 73041	Ilda in The dash in an instant				 	
	Di h					
	K-Faldsom alaude F				 ·	
	Alut it to an to the and a the area to				 	<u> </u>
	Machine product intring net - especially on				 	
	De la Philas de transferences					
	Praguocase northigh and - parpugative texpile					
	Condole ilso present. Amall verning 21mm					
<u></u>	hissting pyrile / chalcopeyrite - Sulphides alto				 	
	ausseminated Hemalite Staining prevalent				 _	
• • •	trom rench 6	I				

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N.T.S. 92409 DATE May 7/89

LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS	SAMPLED
	1776	WIDTH		BY
Volcanic type), no readily observable	Chip	3m		L. Erdma
fragments. No visible sufficient no	<i>I</i>			
Inalachite stain. Rare magnetite				
veinlets but overall the rock is nor				
magnetic. 1% pyroxene cryctals which				
locally are altered touch ite.				
Feldspah phenocrypts are a pink				
colorn (potassic alteration), race splotchy				
pinh areas, and pink veinlets - Also				
épidote alteration.				
,				
Feldspan - pyroxene porphysitic volcanic	Grat	zom		L.E.
tuff. 10% Aldspan obe Alls, not as alrendant	<u> </u>			
asperious samples. Pervassive disseminated				
magnetite - in general v.J.y. but some enhalted				
crystale Local pervasive continuite and				
calcite on the surface of some of the				
Franchines. Some of the tradine surfaces				
are pinh in colon, perhaps potassic alteration.				
Locally the feldopuns are altered to pinh				
K-spal but this is not ubiquitons. Local				
heavy Mn on traicine surfaces. One weation	·····			
has Streaky and "clotted" chalcopyite, < 10m				
	LOCATION & DESCRIPTION Volcanic Tuff?), no readily observable fragments. No visible suffices, no Inclushite stain. Rare mugnetite veinets but overall the rock is nor mugnetic. 1% pypoxene crystals which forcally are altered to chlorite. Feldspan phinocrysts are a pinta colorn (potassic alteration), race splotchy pint areas, and pint veintets. Also epidole alteration. Feldspan -pyroxene posphysitic volcanic tyff. 10% foldspan pine xtls, not as alundant asperious samples. Pervassive disseminated magnetite - in general vj.y. but some enhelind crystuls. Local pervasive carbonate and calcite on the surface of some of the Fractures. Some of the traciture infanes are pint in colorn, perhops polasic alteration. Locally the feldspans are altered to pinta K-spal but this is not infaguitures. Local has stready and "clotted" chalcoprite, < 1000	Volcanic Tuff () not readily observable Chip Volcanic Tuff () not readily observable Chip Iragments Movisible sufficies not Inculachite stain. Pare magnetite verifiets but overall the coch is non- magnetic. 1% pyperene crystals which Iveally are altered to chin ite. Feldgen phenocrysts are a pinta colorn (potassic alteration) race splothy pint areas, and pint verifiets. Also epidole alteration. Feldgen -pyrosene posphysitic volcanic Grat tuff. 10% feldspan per eths, not as alundant angustite - in general vf.y. but some exheticed calcule on the surface of some of the Fraduces. Some of the fraduces and calcule on the surface of some of the Fraduces. Some of the fraduces are pint in colon, perhaps polasic alteration. Locally the feldspans are altered to pinta K-spal but this is not usignitures. Cocal has stready and 'clotted' chalcoprite, <1000	LOCATION & DESCRIPTION TYPE WIDTH Volcanic tuff () not readily observable Chip 3m fragments Monicible sufficient not Inclushite stain. Rare magnetite vernets but overall the rock is nor magnetic 1% pypoxene cryctals which locally are allered to chin ite. Feldspan phenocrysts are a pink colorn (potassic alteration), rang splothy pink areas, and pink vernets. Also epidote alteration. Feldspan pypoxene perphysitic volcanic Grab 20m tuff. 10% Addspan phenotics of a salundant asperious idmples. Pervassive diseminated magnetite; in general vj.g. but some enhalted calcute on the surface of some of the fractures. Some of the fracture surfaces are pink in colon, perhaps polyasic alteration. Locally the feldspans are altered to pink k-spal but thes is not using items. Local has streaky and "clotted" chalcopyite, 21m	LOCATION & DESCRIPTION TYPE WIDTH ASSAVS Volcanic tuff(), not readily observable Chip 3m fragments. Not visible suffices not manadice to stating suffices not manadice to share magnetite weinets but overall the rock is nor manadice. 1% pyperene cryctals which locally are altered to charite. Feldpan physicic alteration, race splotby colorn (pitassic alteration), race splotby pinh areas, and pinh veintes. Also epidate alteration. Feldpan -pyroxene perphysic volcanic Graft 20m tuff. 10% foldspan presentls, and as alundant and areas. Pervassive diseminited magnetite - in general vj.g. but some what will altered the suffaces of the fraderies. Some of the the suffaces are pinh in colon, pervasive consende and altered the suffaces of some of the fraderies. Some of the the follopins are allered in a pinh in colon, pervasive consende and fraderies. Some of the trading fraderies. Some of the trading suffaces are pinh in colon, pervasive alleration. for stready and "colored to pinh k-spal but thes is not using intermined has stready and "colored" challes protection. has stready and "colored" challes protection.

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N.T.S. <u>92409</u> DATE ______ 7/89___

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH			ASSAYS		SAMPLED
								BY
23118	Shear zone 16 cm in width	Chip	16cm					L.Erdma
	exposed to a 60 cm length, sub	/						
	vertical to road. Shear zone is							
	in hostroch 23/17. Shear zone:							
- <u>-</u>	178 This shear some material							
	is not included in sample 23/17							
	/				-			
23/19	Another shear zone, 9 cm in width,	Chip	qum					L.E
	exposed to o.g.m. Very friable, some							
	of it is genge. Very rasty some							
	spots of malachite. Highly maynetic,							
	magnetite vernlets in the host pack							
	adjuient to the shear are parallel the							
	shear direction by 134						 	
23120	Bleached to cream colonned feldman	chrp	llm					L.E.
	porphynitic crystal tuff. No printale	1						
•	Kuttide Ran Asible quartz grains.							
	Some sections of the o/c are very "rother"							
	other sections are more competent.							
	Feldspan crystals are altered to a very							
	sift product (clay?)			4				
	V V .							

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N.T.S. <u>92409</u> DATE <u>Mary 7/89</u>

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH		SAMPLED		
							ВҮ
R23121	Volcanic is & Pust brown/ sour F.S. durch	Grab					K.Per.com
	aven looke some usent deate						
	man the man the "s AC Office 1 t						
	- Magneture - Mieperne · Speckled enterspren						
	Surnfele.						
	epidote prevalent Colinie.) Hurridioni						
	plusiodase- poplyotic Hemalitestaining						
•••	Small very harting but weather product						
	No subhide absence						
	Somewhat him mand						
	For The 1 la						
	libre lichet le						
0 22 - 2							
K 23122	Volcance - F.S. dark grey Cover - chloric	Grab	-				
·····	w.s. ruit magnetike - por malachite						
	along Auture ourfaces and weathered surfaces						
	place and throughout - porphistic senture						
	Chalenne sit. In the li de deren it ad mithe						
	See Ala						
	lles tite also the stand						
	Hervalde starring on weathered sur pace						
	Cartonucerous (Carbon the From heude 2						
	1.1 C						
R23124	Volcanio. tota orange/browen E.S.						14
	dask ween over - aboritic - abundant						
	epidate throughout - millachite morent						
·	- proverse p		قل		۰		u

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Mac and Boch Princeton B.C.

N.T.S. <u>92409</u> DATE <u>May 7/89</u> DATE

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS			SAMPL	SAMPLED		
									BY	ВҮ
R23124	on fracture and weathered surprise also		-						K. Pca	R
	dissence ated within sample.									
	Plageodage + K-spar present									
	Henrotite enident a staining									
	wonthered subblide as verying (py) present									
	lighto 1/2 cm									
	Carbonaccous (Corbonitic)									
	Possible occurrence of permits as part									
	of meathering product associated with		ļ							
····	herralite cron staining on practice surface.									
	From Trench 2.	.						ļ		
R 23125	Volcanin - F.S. durk green grey W.S.	Grab							Ki-Por	ila S
	beige / grey brown - porphyritic texture			-						
····	plaguadare - Smill veins hasting									
	epidate, at? Sample very magnetitic									
	Carbont - copecially along practure									
	Surfaces									
	Malachite / hemstite weathering present									
	on fractive surfaces									
	Sulphides on surfaces disservinated as									
	throughout sample and within vein									
	Py/Cp From Trench 2									

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N.T.S. <u>92409</u> DATE Mary 7/89

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS	SAMPLED
					BY
23126,	Feldspan porphysitic volcanic. 20%	Grat	10m		L. Erdma
	1-2mm Fr phenoenjots. Feldspan is a	U			
	light quenish colon saussertized.				
	Overall roch colom in dark grey.				
	Malachite on surface, especially on tructures				
	Rars fracture surfaces are conted with				
	pinh K-spon alteration. Trace of				
	desseminated purite				
	11				
23127	Continuation of previous sample to	Grab	13m		L.E.
	the north. No change in appearance	<u> </u>			
	0 11				
25128	Continuation to the north of sample	Grub	19m		L.E.
	23127. This section of the exposure	J			
	contains 4 rusty weathering sub-parallel				
	shears with widths of 3 a cm 17 cm 20 cm				
	and 15 cm. Shears have gaine andalso				
	competent pieces of rock. Compilent rock				
	has yo's up q. desseminated puite Host				
	roch is as described in 23/26 hut locally				
	there seems to be patchy silicitiestim of				
	At north end of trench the Coolianic becomes				
·	a courded feldspan porphyry with 30-40%				





