

DATE February 5, 1986
TO: A. J. Davidson
COPIES TO: D. Patterson
DE FROM: D. V. Lefebure
SUJET SUBJECT: Evaluation of Patterson Lake Property, Vancouver Island, 92P/7W + 92P/6E

Doug Paterson
2886 6 Ave Port Alberni, BC

phone 723 7519

Introduction

On November 9, 1985 Alex Davidson and I visited the Patterson Lake Property with the three Port Alberni prospectors who own it. During the Property examination the showings on the eastern half of the Property were examined and sampled.

Target

Precious metals in quartz veins and altered volcanic wallrock.

Location

This Property is located on Vancouver Island in the Alberni Mining Division, approximately 15km northwest of Port Alberni. The claims extending along the northeast side of Great Central Lake and are easily accessible by paved and gravel roads. Strathcona Provincial Park adjoins the Property on the northwest.

Ownership

The claims are owned by four prospectors from Port Alberni. We have dealt with:

Doug Patterson
2886 6th Avenue
Port Alberni, B. C.
V9Y 2H3

and

Herb McMaster
Port Alberni, B. C.
723-7027

The property encompasses the following claims (see Figure 1):

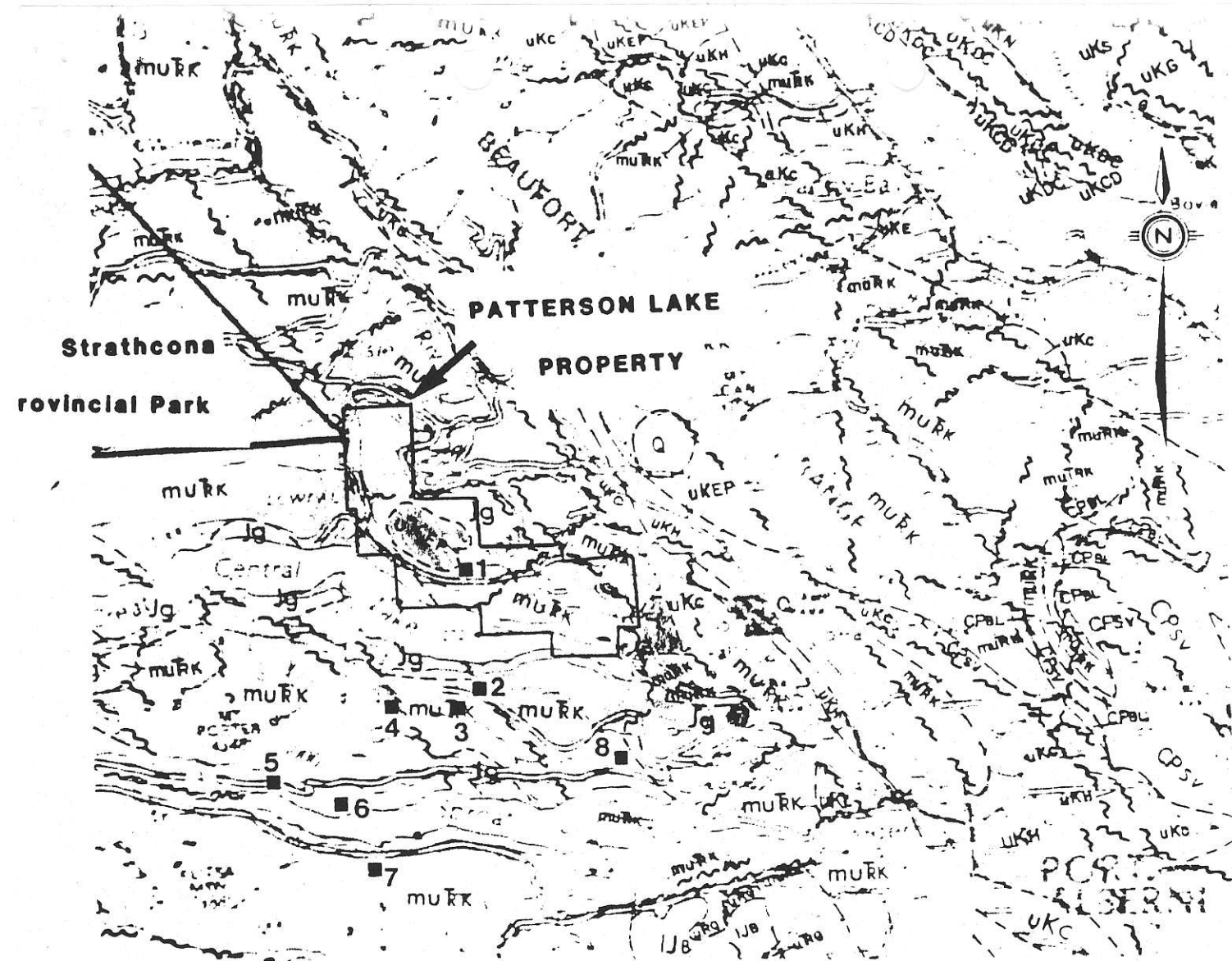
<u>Name</u>	<u>Record No.</u>	<u>Units</u>
Paterson	1993(3)	20
Paterson 1	2000(3)	15
Paterson Lake 3	2207(4)	8
Paterson Lake 4	2208(4)	8
Paterson Lake 6	2209(4)	20
Central 1	2319(7)	15
Central 2	2320(7)	15
Central 3	2321(7)	16
Central 4	2322(7)	18
Central 5	2323(7)	18
Central 6	2462(12)	6
Central 7	2463(12)	6
Ash #1	2552(7)	18
Ash #2	2553(5)	18

Previous Work

Exploration on the Property has been limited to trenching and adits on various showings. No assessment reports have been filed from this area. The current owners have been blasting and digging on some of the known quartz veins and shear zones to find more mineralization.

Geology

The area is underlain by Karmutsen basalts, Island intrusions and Nanaimo sediments (Figure 2) which are cut by NE-, NW- and E-trending faults. Paul Wilton, B.C.M.E.M.P.R. district geologist, has identified a feldspar porphyry dyke on the claims of possible Tertiary age which may be related to the precious metal mineralization.



Legend

■ Minfile Listing

- 1 - Centennial (Roseanne) - Fe, Cu #293
- 2,3,4 - Hm - Cu or Cu, Sb, Hg, #306, 307, 230
- 5,6 - Herb - Cu #232, 362
- 7 - Murphy - Johnson - Cu #249
- 8 - R - Cu #341

UK - Nanaimo sediments
 Jg - Island intrusions
 MuRK - Karmutsen volcanics

Figure 2 Geology of the Great Central Lake area (from Muller, 1977)

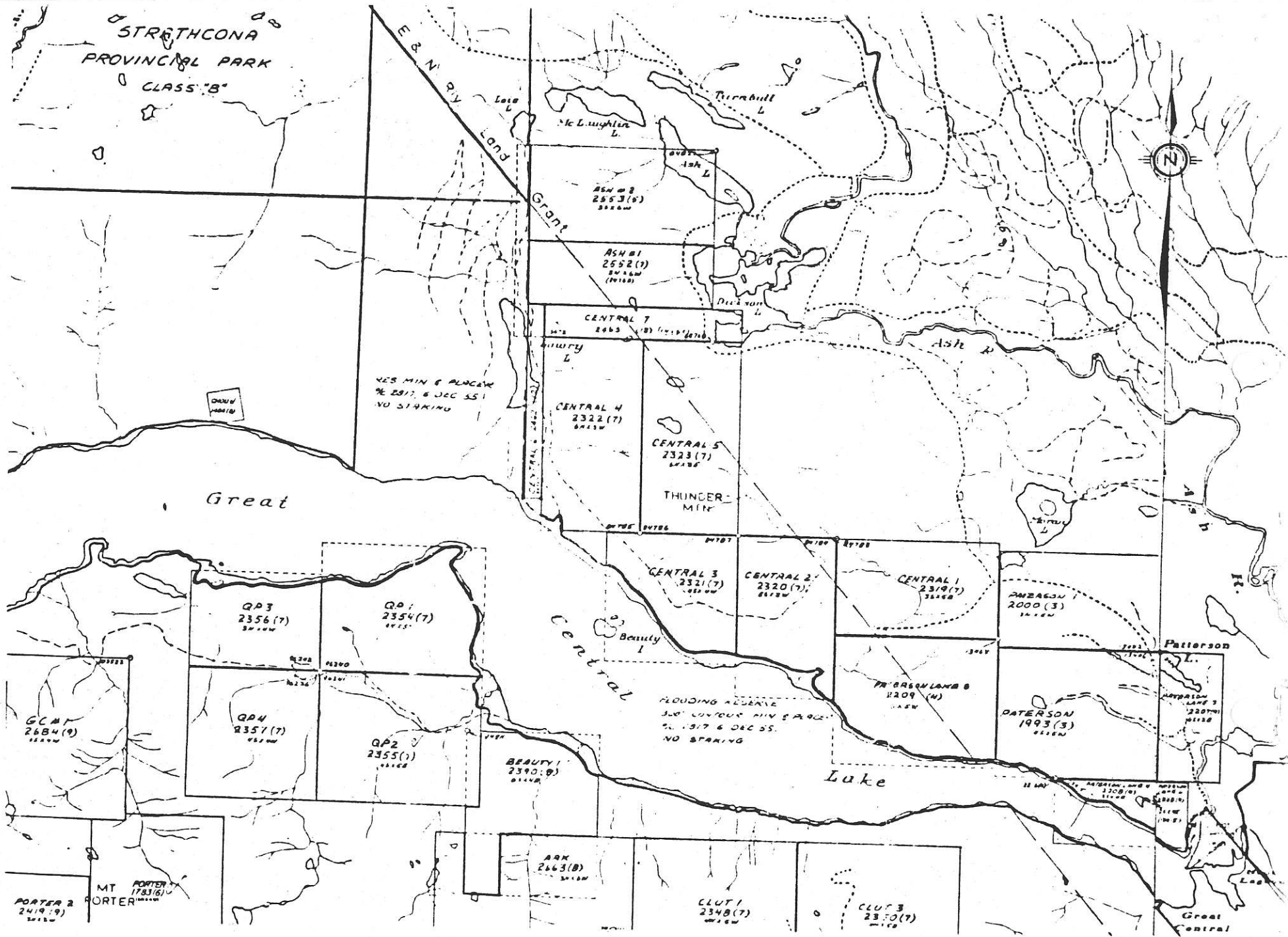


Figure 1 Location of Patterson Lake Property claims.

Mineralization

Three types of mineralization occur on the Property:

- 1) copper in shear zones
- 2) gold in quartz veins + carbonate
- 3) gold and copper in altered volcanics.

Shear zones containing bornite, chalcopyrite, pyrite and magnetite are present with good copper values over narrow widths (5.6% Cu, BCS 2392, Table 1)). Centennial, the only showing on the claims listed in Minfile, is a shear zone in amygdaloidal Karmutsen basalt containing chalcopyrite, pyrite and magnetite in a quartz gangue.

Several quartz veins sometimes with carbonate, were examined which reportedly carry gold values. Some carry minor amounts of pyrite. The single CFC analysis of a quartz vein contains only 5 ppm Au. Both the quartz veins and shear zones trend north and east.

The most promising type of mineralization consists of chalcopyrite and bornite with associated gold and possibly silver (reportedly 0.35 to 2.5 oz/ton silver) in altered Karmutsen volcanics. Both epidote alteration and silicification of volcanics, sometimes with associated sulphides, is found in a number of outcrops. One exposure of amygdaloidal basalt with chalcopyrite and bornite adjacent to a Tertiary (?) feldspar porphyry dyke contains high gold (95 and 5500 ppb Au) and copper (25,500 and 81,000 ppm) values. Further sampling is required to establish the extent of mineralization in the altered volcanics.

Table 1. Gr: sample analyses from Patterson Lake Property

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
 705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

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

TELEX: 04-352828

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: CORP. FALCONBRIDGE COPPER
 PROJECT: 302/305
 ATTENTION: D. LEFEBURE/A. DAVIDSON

FILE: 5-924
 DATE: NOV. 27/85.
 TYPE: ROCK GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 6 samples submitted.

SAMPLE NUMBER	AG PPM	CU PPM	AU PPM	
BCS-2390	1.2	450	5	Outcrop #1, quartz vein
2391	0.8	90	5	Outcrop #3, silicified Karmutsen volcanic
2392	36.9	56000	45	Outcrop #5, malachite-bornite shear zone
2393	20.1	25500	95	Outcrop #6, altered Karmutsen adjacent to dyke
2394	24.0	31000	5500	Outcrop #6, disseminate chalcopryrite on fractur and in amygdules in Karmutsen lava.
BCS-2397	5.1	7900	50	Outcrop #7, chalcopryrite and malachite with quartz gangue in altered Karmutsen.

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE RECEIVED OCT 31 1985

DATE REPORTS MAILED Nov. 6/85

ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH.

ASSAYER T. Saundry DEAN TOYE OR TOM SAUNDRY, CERTIFIED B.C. ASSAYER

D. PATERSON FILE# 85-2992

PAGE# 1

SAMPLE	Cu	Ag	Au
	%	oz/t	oz/t
106#2	3.98	.45	.020
85#1	1.01	.06	.001

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

TELEX 04-53124

ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-2 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR,
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: ROCK CHIPS AU# 10 GRAM REGULAR ASSAY

DATE RECEIVED:

OCT 21 1985

DATE REPORT MAILED:

Oct 24/85

ASSAYER:

D. Paterson

DEAN TOYE OR TOM SAUNDRY, CERTIFIED B.C. ASSAYER

D. PATERSON FILE # 85-2873

PAGE 1

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag OZ/T	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au OZ/T
LAKE 101 CREEK#2	.001	.01	.01	.02	.01	.01	.01	.07	52.81	.01	.002	.01	.010	.010	.010	.001

Central

SAMPLE	Cu %	Ag oz/t	Au oz/t
LAKE 101#1	.38	.02	.001
BROWNS CREEK#1	.79	.01	.001

Central
Central

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

TELEX 04-53124

ASSAY CERTIFICATE

SAMPLE TYPE: ROCK CHIPS AU# 10 GRAM REGULAR ASSAY

DATE RECEIVED: SEPT 6 1985 DATE REPORT MAILED: *Sept-17/85* ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

D. PATERSON FILE # 85-2255

PAGE 1

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag OZ/T	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au OZ/T
<i>6.3 M</i> 106#1	.001	.05	.01	.01	.02	.01	.01	.06	6.95	.01	.020	.01	.010	.010	.010	.001 <i>ask</i>
<i>4.3 M</i> 79#1	.001	2.42	.01	.01	.89	.01	.01	.05	4.92	.01	.062	.01	.010	.010	.010	.016 <i>Paterson</i>
<i>1 M</i> CREEK#1	.002	2.27	.01	.01	.15	.01	.01	.05	7.23	.01	.002	.01	.010	.010	.010	.009 <i>Paterson</i>

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

TELEX 04-53124

ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-3 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR.
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: ROCK CHIPS AU# 10 GRAM REGULAR ASSAY

DATE RECEIVED: APR 24 1985 DATE REPORT MAILED: *April 26/85* ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

PEARCE LOG RECOVERIES FILE # 85-0446

PAGE 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Cd	Sb	Bi	Au
	%	%	%	%	oz/t	%	%	%	%	%	%	%	%	%	%	oz/t
<i>Central</i> <i>101 gate</i> ROCK	.004	.91	.01	.01	.04	.01	.010	.03	40.87	.01	.002	.01	.001	.001	.001	.001

Central + ASH

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

TELEX 04-53124

ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-3 OF HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR,
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: ROCK CHIPS AUP 10 GRAM REGULAR ASSAY

DATE RECEIVED: JAN 24 1985 DATE REPORT MAILED: Jan. 28, 1985 ASSAYER: T. Saundry DEAN TOYE OR TOM SAUNDY, CERTIFIED B.C. ASSAYER

PEARCE LOG RECOVERIES FILE # 85-0091

PAGE 1

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag oz/t	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au oz/t
34	.001	1.72	.02	.03	.13	.01	.01	.07	22.37	.01	.001	.00	.00	.001	.001	.001
35	.002	.02	.01	.01	.01	.01	.01	.03	4.45	.01	.001	.00	.00	.001	.001	.001

35 Br 100 1/2 in

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

TELEX 04-53124

ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-3 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR,
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: ROCK CHIPS AU# 10 GRAM REGULAR ASSAY

DATE RECEIVED: OCT 22 1984 DATE REPORT MAILED: *Oct 26/84* ASSAYER: *D. Toyer* DEAN TOYE, CERTIFIED B.C. ASSAYER

PEARCE LOG RESOURCES FILE # 84-3098

PAGE 1

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag oz/t	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au oz/t
31	.001	5.49	.01	.01	.87	.01	.01	.05	3.80	.01	.001	.00	.00	.004	.005	.016
32	.001	3.68	.01	.05	.50	.01	.02	.10	20.25	.01	.001	.00	.00	.003	.004	.018
33	.001	.37	.01	.01	.05	.01	.01	.07	3.30	.01	.001	.00	.00	.001	.001	.003

ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-3 OF HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR,
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.
- SAMPLE TYPE: ROCK CHIPS AU# 10 GRAM REGULAR ASSAY

DATE RECEIVED: AUG 7 1984 DATE REPORT MAILED:

*Aug 13/84*ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

PEARCE FILE # 84-1982

PAGE 1

SAMPLE#	MO %	CU %	PB %	ZN %	AG OZ/T	NI %	CO %	MN %	FE %	AS %	U %	TH %	CD %	SE %	BI %	AU OZ/T
29A	.001	.03	.01	.01	.01	.01	.01	.09	6.14	.01	.001	.00	.00	.003	.001	.001
30	.001	.01	.01	.01	.01	.01	.01	.03	1.84	.01	.001	.00	.00	.001	.001	.001

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

TELEX 04-53124

ASSAY ICP ANALYSIS

1.00 GRAM OF SAMPLE IS DIGESTED WITH 50ML OF 3-1-3 OF HCL-HNO3-H2O AT 95 DEG. OF WATER BATH FOR ONE HOUR
AND IS DILUTED TO 100ML WITH WATER. THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SM.Y.NB.AND TA.
DETECTION LIMIT FOR MOST METALS IS .01% SAMPLE TYPE: ROCK CHIPS AU: 10 GRAM REGULAR ASSAY

DATE RECEIVED: JUNE 1 1984

DATE REPORT MAILED: *June 7/84*

ASSAYER: *D. Paterson* DEAN TOYE. CERTIFIED B.C. ASSAYER

MR. D. PATERSON FILE # 84-0935

PAGE 1

SAMPLE#	MO %	CU %	PB %	ZN %	AG OZ/T	NI %	CO %	MN %	FE %	AS %	U %	TH %	CD %	SB %	BI %	AU OZ/T
24A	.001	.33	.01	.01	.01	.01	.01	.12	4.82	.01	.001	.01	.001	.001	.001	.001
25C	.002	.01	.01	.01	.04	.01	.01	.04	21.47	.01	.001	.01	.001	.001	.001	.001
26D	.001	.12	.01	.01	.01	.01	.01	.04	2.23	.01	.001	.01	.001	.001	.001	.001

ACME ANALYTICAL LABORATORIES LTD.
352 E. HASTINGS, VANCOUVER B.C.
PH: 250-2258 TELEX: 04-53124

DATE RECEIVED MAR 21 1984

DATE REPORTS MAILED

Mar 20/84

ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PRULVERIZED 100 MESH.

ASSAYER *D. King* DEAN TOLSON, CERTIFIED B.C. ASSAYER

S.Y.E. TRESIERRA FILE # 84-0396

PAGE# 1

SAMPLE	CU	AG	AU	CO	NI
	%	OZ/TON	OZ/TON	%	%
112	.58	.31	.001	-	-
113	.01	.01	.001	-	-
114	.07	.04	.001	-	-
115	.21	.02	.001	-	-
116	.01	.01	.001	-	-
1000	.03	.01	.001	-	-
1001	5.45	50	.001	-	-
1002	3.38	1.74	.102	-	-
500	-	.03	-	.01	.01
501	-	.31	.012	.01	.01

ELECTROGRAPHIC REPORT

Si > 10.0 Al 2.0 Mg 0.4 Ca 1.5 Fe 3.5 Pb — Cu > 5.0 Zn — Mn 0.15 Ag I ↓ V I ↓ Ti 0.12 Ni I Co I ↓ Na I K 0.3 W — TRACE: — Cr, Sr, Zr, Mo, Bi	Si — Al — Mg — Ca — Fe — Pb — Cu — Zn — Mn — Ag — V — Ti — Ni — Co — Na — K — W —	Si — Al — Mg — Ca — Fe — Pb — Cu — Zn — Mn — Ag — V — Ti — Ni — Co — Na — K — W —
Si — Al — Mg — Ca — Fe — Pb — Cu — Zn — Mn — Ag — V — Ti — Ni — Co — Na — K — W —	Si — Al — Mg — Ca — Fe — Pb — Cu — Zn — Mn — Ag — V — Ti — Ni — Co — Na — K — W —	Si — Al — Mg — Ca — Fe — Pb — Cu — Zn — Mn — Ag — V — Ti — Ni — Co — Na — K — W —

-RAY DIFFRACTION REPORT AND COMMENTS

KEY

COLUMNS 28-31

UMFC ultramafic	GRNS greenstone
ANDS andesite	MNZN monzonite
BSLT basalt	OBSD obsidian
CRBN carbonatite	PNLT phonolite
DCIT dacite	QZPP quartz porphyry
DORT diorite	RYLT rhyolite
GBBR gabbro	SRPN serpentinite
GRNT granite	SNKN shonkinite
GRDR granodiorite	SYNT syenite

TRCT trachyte
TUFF tuff
AMPB amphibolite
CLCC calc-silicate
GNSS gneiss
MRBL marble
PLLT phyllite
SCST schist
HRFL hornfels

SKRN skarn
GOUG gouge
ARGL argillite
CHRT chert
COAL coal
DLMT dolomite
LMSN limestone
MARL marl
QRTZ quartzite

SNDS sandstone
SHLE shale
SLSN siltstone
MRLZ mineralization
MVSP massive sulphide
DISS disseminated
SCKK stockwork
VEIN vein
ALRZ alteration

COLUMNS 32-33

04 Proterozoic	12 Cambrian	21 Mississippian	34 Jurassic
05 Helikian	14 Ordovician	22 Pennsylvanian	36 Cretaceous
06 Hadrynian	16 Silurian	24 Permian	40 Cenozoic
10 Paleozoic	18 Devonian	30 Mesozoic	42 Tertiary
11 Prot.-Paleozoic	20 Carboniferous	32 Triassic	44 Quaternary
			50 Unknown

COLUMN 34

SAMPLE TYPE
1 Single grab sample
2 Channel/chlp
3 Composite sample
4 Drill core
5 Talus or transported
6 Soil
7 Silt
8 Other

COLUMN 35

% SULPHIDE
0 <0.5
1 0.5-1
2 1-10
3 10-50
4 >50

ANALYTICAL METHOD

AA	ATOMIC ABSORPTION
AH	HYDRIDE GENERATION
FA	FIRE ASSAY
ES	EMISSION SPEC
XR	X-RAY FLUORESCENCE
WC	WET CHEMICAL
CL	COLORIMETRIC
CV	COLD VAPOUR

SAMPLE PREPARATION

W	TUNGSTEN CARBIDE
C	CERAMIC
S	STEEL

COLUMNS 36-43

Inventory Number or property name

COLUMNS 44-80

Comments

RIV. Land

McLaughlin L.
Turnbull L.
L. L.

Grant
ASH 2
2938 (7)
55 E W

ASH 1
2937 (7)
55 E W

CENTRAL 7
2465 (12)
55 E W

CENTRAL 4
2322 (7)
6 N A 3 W

CENTRAL 5
2323 (7)
6 N A 3 E

THUNDER MTN

CENTRAL 6, 2462 (12)

CENTRAL 3
2321 (7)
45 E W

CENTRAL 2
2320 (7)
55 E W

CENTRAL 1
2319 (7)
35 E 5 E

PATERSON 1
2000 (3)
3 N A 15 W

2209 (4)
45 E 5 W

PATERSON
1993 (3)
45 E 5 W

BEAUTY 1
2390 (9)
55 E 4 E

ARK
2663 (8)
3 N A 6 W

CLUT 1
2348 (1)
4 N A 6 W

CLUT 3
2350 (1)
4 N A 5 W

GRF/GE

