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GEOCHEMICAL RECONNAISSANCE ASSESSMENT REPORT
On the PIMPERNEL MINERAL CLAIM

Omineca M.D.
93L/3E

Lat.54°10'N

Long.127°02'W

July, 1997

For Owner/Operator
Electrum Resources Corporation

Mar, 1998
Delta, B.C.

S. Zastavnikovich, P.Geo

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,485

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INTRODUCTION & DESCRIPTION

The Pimpernel 4x5 mineral claim is located on the west branch of Pimpernel Creek 3 km south of Morice River on map 93L/3E, some 40 kilometres south of Houston in central British Columbia.

Access to the claim property is for 3 km. south on the Frypan Lake logging road from kilometer 42 on the Morice Main all-weather gravel road.

The Pimpernel mineral claim is owned by Electrum Resources Corporation, and was staked on Jan. 10, 1996. The present status of the claim is as indicated below:

Claim	Record#	Units	Expiry Date*
Pimpernel	342909	20	Jan. 10, 2001

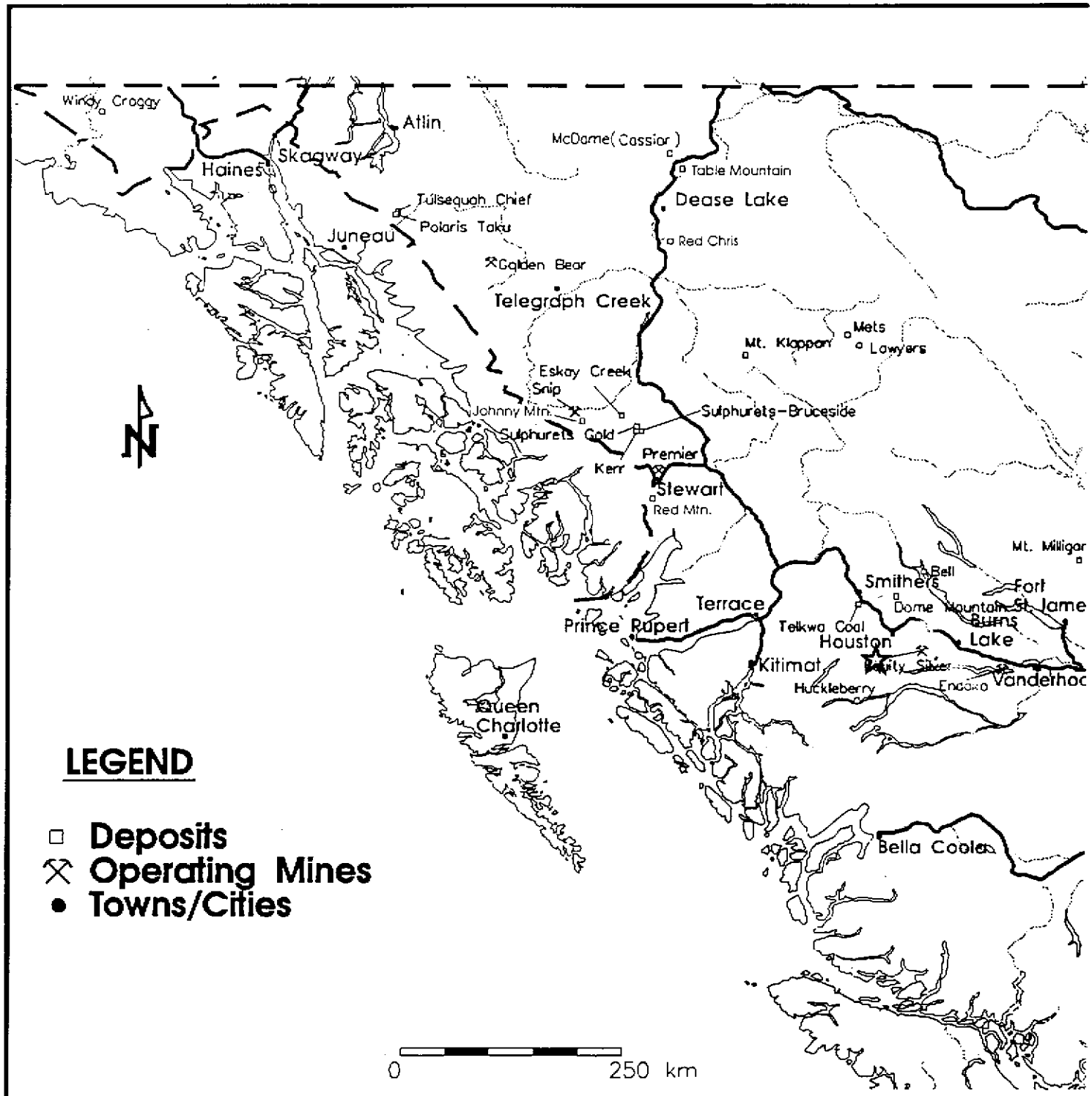
*Upon Approval of this Report

From July 20 to July 24th, 1997 the writer, accompanied by one helper, conducted a reconnaissance-scale drainage, rock and soils sampling coverage of the northern portion of the Pimpernel claim area in an attempt to identify geochemical trace element pathfinders associated with any anomalous precious and base metals values present. Two 1-km.-long NW/SE oriented chain and compass lines, located over the highland between two airborne geophysical conductors, Fig. 4, in pocket, were soil-sampled at 25 m. intervals to asses use of the regular -80 Mesh fraction soil surveys for routine exploration over varied terrain in the claim area. Two locally available secondary drainages were sampled, and one remote site, with high quality field-sieved silt samples, and 15 rock outcrop and float samples collected, as described in Appendix II, to establish a relationship with any anomalous soils and drainage geochemistry, Fig. 4, and Appendix IV, and help with their interpretation.

The rock and soil sample analytical results have been graphed, with more than a dozen of the most prominent trace-elements profiled, Charts 1A, B, 2A, B, overleaf, in order to illustrate the most important trace-elements relationships relative to the rock sample descriptions, Appendix II. The sample locations are presented on the 1:10000 scale topographic base geology map, and the Au,Cu values inscribed for the soils and drainage samples, Fig. 4, in pocket. Complete analytical results are enclosed in Appendix IV.

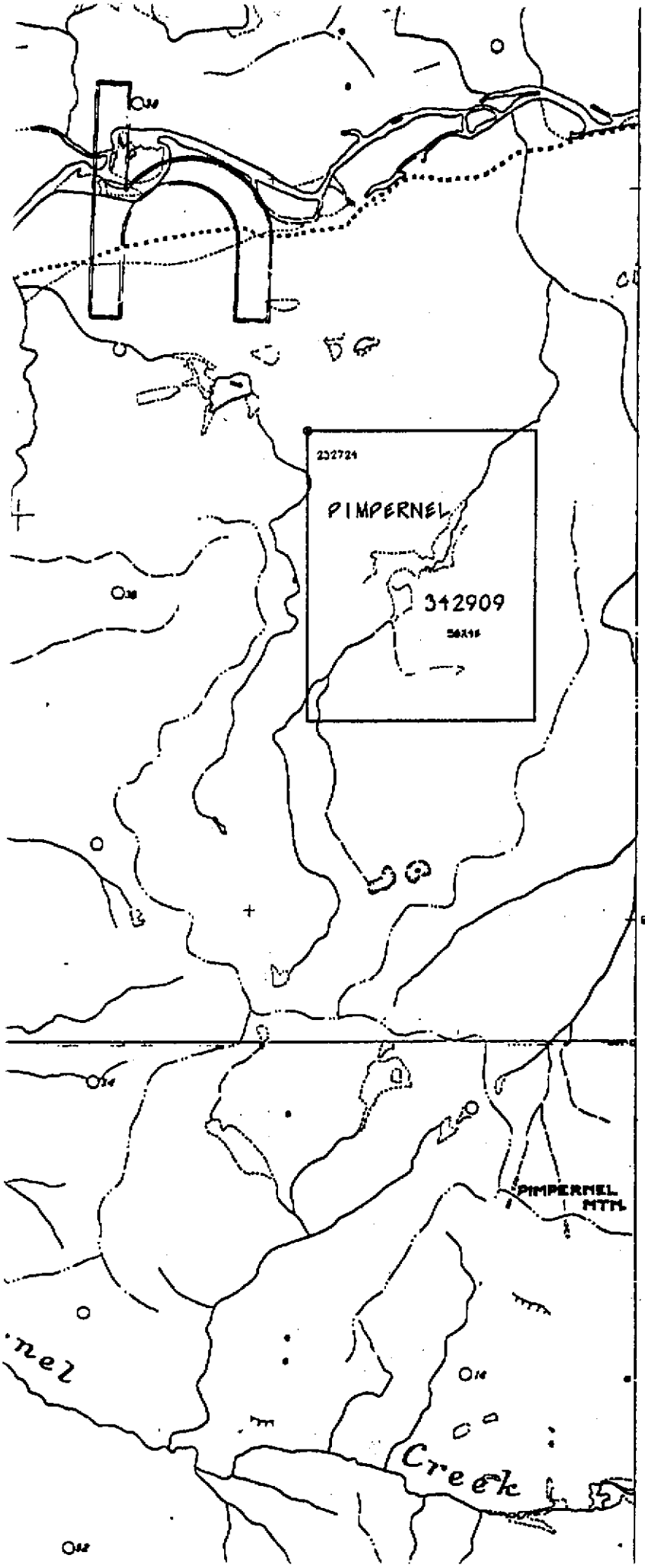
PHYSIOGRAPHY

The area of the Pimpernel claim lies on a gentle regional north-facing slope ranging in elevation from 1700 m. at the Pimpernel Mountain to the south, to 700 m. in the Morice River Valley to the north of the claim. Local ridges in the claim area reach 1000 m., down to 850 m. along the west branch of Pimpernel Creek, Fig. 3, overleaf. The claim area is mantled in glacial overburden ranging from thick in the valleys to thin along the ridges, where isolated outcrops can be located, Fig. 4, in pocket.



Index Map

SEE-M



MINERAL TITLES REFERENCE

MAP 093L03E

U.T.M. ZONE 09

LAST MAP UPDATE: 1996 JAN 17

ORIGINAL PRODUCED AT 1:31680

METRES

500 0 500 1000 1500 2000

ADMINISTRATIVE AREAS

MINING DIVISIONS: OMINECA

LAND DISTRICTS:

ALIENATIONS

NO STAKING AREAS

NO STAKING RESERVES

PARKS

ECOLOGICAL RESERVES

RECREATION AREAS

INDIAN RESERVES

CONDITIONAL AREAS

SUBJECT TO CONDITIONS RESERVES

SECTION 19 RECREATION AREAS

I POST CLAIM AREAS

CLAIMS LOCATION MAP

Pimpernel Mineral Claim

Omineca M.D.
93L/3E
Scale 1:50,000

Fig.2

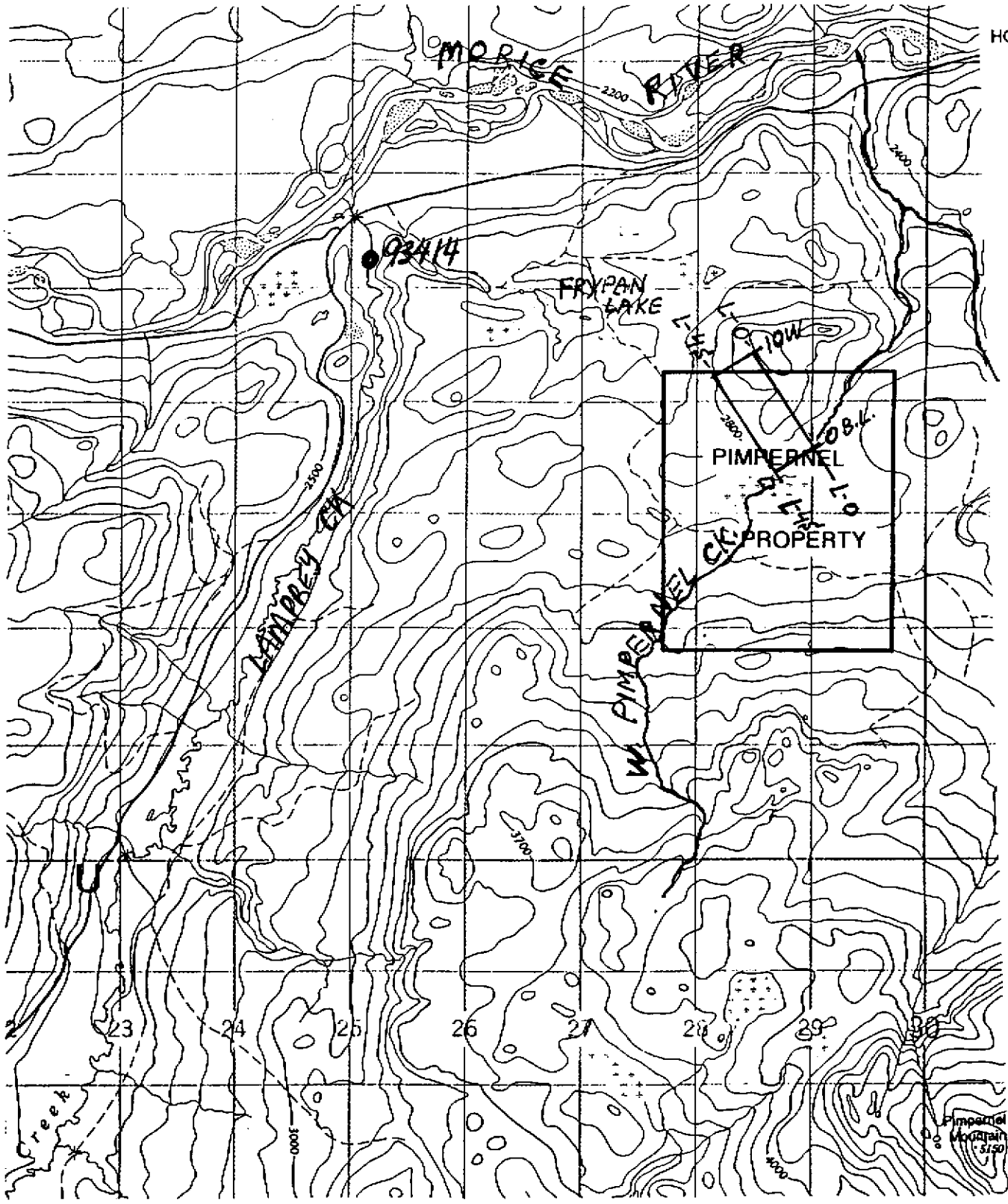
GEOLOGY

The general geology of the claim area is copied from the 1972 GEMBC by B.N. Church:
GENERAL GEOLOGY: The bedded units are mainly volcanic comprising rocks thought to be part of the Hazelton assemblage, and cover rocks equivalent to the Tip Top Hill, Buck Creek, and younger Tertiary formations. Igneous intrusions consist of a granite stock, a small gabbroic intrusion, and an assortment of dykes.
Bedded Rocks: Rocks believed to be part of the Hazelton Group crop out near the east boundary, mainly on Tsalit Mountain, in the west and northwest parts, and locally in the north-central part of the map-area. Most of these rocks are mottled greenish grey and epidote bearing. They display vestiges of primary volcanic structures such as amygdales and breccia textures. A distinctive brownish maroon pyroclastic phase, commonly charged with small feldspar laths was found on the ridges east of Lamprey Creek and near the main access roads in the northwest part of the map-area.
Tertiary volcanic rocks tentatively correlated with the Eocene Houston phase of the Buck Creek assemblage are exposed on scattered knolls in the central part of the map-area and on the slopes of Pimpernel Mountain to the south. These lavas and volcanic breccias are commonly medium or dark brown and aphanitic. In thin section the rocks are found to consist largely of tiny plagioclase microlites and clusters of small pyroxene crystals in the glassy matrix. X-ray analysis shows an average of less than 2 per cent quartz; this is in contrast with the older volcanic rocks of the area which range to as much as 40 per cent quartz in some cases. Arc fusion analysis of 10 samples shows that the rocks are typically andesitic having an average refractive index of 1.552.

Intrusive Igneous Rocks: ...
...The only other intrusion worthy of description is a small fine medium-grained gabbroic stock, about one-quarter mile in diameter, found cropping out just northeast of the main access logging road in the west-central part of the map-area.(Fig. 4, in pocket).
Thin section study of two samples of a feldspathic phase of this rock shows an average of 85 per cent plagioclase (An40 to An50), 14 percent pyroxene and equivalent alteration products, and 1 per cent magnetite and other accessories. A minor occurrence of chalcopyrite has been reported in the vicinity of this body.

STRUCTURAL GEOLOGY: The area is characterized by a reticulate pattern of small valleys and draws which evidently mark a system of important fractures. The so-called Poplar Mountain lineament which originates near the centre of the map-area is the most conspicuous regionally. This line can be traced approximately 15 miles to the southeast, striking about 165 degrees to Tagetochlain Lake. It sharply defines the west side of Poplar Mountain which proves to be a large fault block. Somewhat weaker subparallel lineaments are observed near Tsalitpn Lake and Tsalit Mountain.

A second series of prominent lineaments coincides with a number of small but important faults trending about 050 degrees. Movement on these has chopped the geology in the northwest sector into a number of northeasterly elongated panels. Some offset in the northern extension of the Poplar Mountain lineament is also apparent. (p. 374-377)



Scale 1:50 000

Metres 1000 0 1000 2000 3000

NOTE; LOCATION MAP IS A SEGMENT OF NTS MAP SHEET 93 L/3, "LAMPREY CREEK"

SOIL SAMPLES GRID LOCATION MAP

Pimpernel Mineral Claim

Omineca M.D.
93L/3E
Scale 1:50,000

Feb.'98 **Fig. 3**

GEOCHEMICAL SURVEY

B-horizon soil samples were collected with a grubhoe at 25 m. intervals on two chain and compass 1 km.-long lines 400 m. apart, straddling the high ground in the northern portion of the Pimpernel claim area, resulting in 84 soil samples.
Limited sampling of two secondary drainages in the soil grid area and one sample from the Lamprey Creek drainage, Fig. 3, were also collected with a perforated pan and sieve device to ensure sampling quality and reproducible results. Outcrops were sampled where encountered in the soils grid and surrounding area, supplemented by some angular float rocks of presumed local origin, for a total of 15 rock samples, as described by C.F. Staargaard, P.Geo., in Appendix II.
All samples were analyzed for fire-geochemical gold, mercury, and the 31-trace-elements ICP package at Min-en Laboratories in Vancouver using standard geochemical methods, as described in Appendix III. The rock and soil analytical results are correlated in Tables 1 and 2 and profiled in Charts 1A, B and 2A, B respectively.

Rock Samples Geochemistry

No anomalous gold or silver values have been identified in the fifteen rock samples collected, hence the correlation coefficients for the precious metals in Table 1 are not significant.
However, the usual pathfinder suite for precious metals mineralization, consisting of As, Hg, Sb are very strongly anomalous, ranging up to 4336ppm As, 10ppm Hg and 83ppm Sb, Appendix IV, and are strongly correlated, as are the base metals Cu, Pb, Zn, Cd, ranging up to a perfect 1.0 for As and Cd, Table 1, overleaf. In addition, all these significant trace-elements are also strongly correlated with iron and manganese values in the rock samples, with for example 0.78 for Zn and Fe, and 0.68 for Zn and Mn, Table 1. These trace-elements associations are also readily apparent on the profile Charts 1A, B, indicating that their anomalous levels are present in secondary Fe, Mn oxides, described as abundant limonitic fracture coatings in Appendix II.

The inference is that the anomalous rock samples geochemistry may be caused by oxidizing precious metals and/or base metals ore bodies which are located at some depth below the present day surface.

Drainage Geochemistry

The limited drainage sampling survey is based on field-sieved silt sampling with a perforated 'Barakso pan' base in combination with a screen of chosen size. The field-sieved sampling method helps isolate lithic silt from organic debris, and to some extent the fine clay material, thus providing more homogenous sampling medium than is possible with the standard 'grab' silt sampling surveys. Providing the sampling quality is maintained, the uniform material yields repeatable analytical values independent of seasonal variations, thus enhancing geochemical interpetability of the the analytical results.

Of the two local samples collected in minor secondary drainages, #93412 draining easterly is weakly anomalous in arsenic with 24ppm As, and #93413, draining westerly, is weakly anomalous in arsenic and copper, with 18ppm As, 59ppm Cu, indicating that the central ridge area may contain mineralization-related anomalies, Fig. 4, in pocket, and Appendix IV.

For comparison, the distant sample collected in the Lamprey Creek drainage to the northwest, Fig. 3, is only anomalous in silver, with 1.0ppm Ag, which is known to be a highly mobile trace-element, likely indicating a distant source, in absence of other correlated element values.

Soil Samples Geochemistry

The two chain-and-compass soil sampling lines were oriented at right angle to the two airborne geophysical conductors present along the west branch of Pimpernel Creek valley and in the L.C.P. area, to intersect the parallel ridge structure located between them, Fig. 4.
Due to lack of anomalous gold values in the soils, as in the rock samples, gold is poorly correlated to all other trace-elements in Table 2. The single anomalous 62ppb Au value present in sample #L-0, 7.25W is not supported by the rest of the trace-elements, Charts 2A, B, Fig. 4, and Appendix IV, indicating its likely glacial-type placer origin.

The anomalous trace-elements geochemistry for soils is similar to that described above for the rock samples, as can be seen in comparable coefficients of correlation, Tables 1 and 2, and comparable trace-elements profiles, Charts 1A, B vs. 2A, B and 3A, B, respectively.

As for the rock samples, the anomalous soils trace-elements geochemistry is dominated by anomalous Fe, Mn values, which in turn are likely to be related to high angle structures, as indicated by anomalous Ni, Co, Cr values for example at 6.25W-6.50W on Line 0, and at 3.25W-4.00W on Line 4S, Charts 2A, B, and 3A, B respectively, and Appendix IV.

Additional parallel soil sample lines are required to help establish the strike and the extent of the anomalous structures present on the Pimpernel mineral claim property.

Soils	AGppm	AL %	AS ppm	BA ppm	BE ppm	BI ppm	CA %	CD ppm	CO ppm	CR ppm	CU ppm	FE %	GA ppm	K %	LI ppm	MG %	MN ppm	MO ppm	NA %	NI ppm	P ppm	PB ppm	SB ppm	SN ppm	SR ppm	TH ppm	TI %	U ppm	V ppm	W ppm	Znppm
AGppm																															
AL %	0.10																														
AS ppm	-0.14	-0.09																													
BA ppm	-0.13	-0.22	-0.19																												
BE ppm	0.53	-0.08	-0.22	0.01																											
BI ppm	-0.07	-0.03	0.49	-0.06	-0.13																										
CA %	0.47	0.34	-0.39	-0.27	0.37	-0.20																									
CD ppm	-0.14	-0.08	1.00	-0.18	-0.20	0.48	-0.37																								
CO ppm	0.34	0.36	-0.27	-0.17	0.55	-0.10	0.73	-0.24																							
CR ppm	-0.11	0.20	-0.38	0.68	-0.33	-0.19	-0.17	-0.39	-0.27																						
CU ppm	0.23	0.00	-0.26	-0.15	0.44	-0.10	0.62	-0.22	0.79	-0.34																					
FE %	-0.03	-0.10	0.57	-0.45	0.20	0.45	0.03	0.59	0.43	-0.77	0.43																				
GA ppm	-0.24	0.04	0.91	-0.30	-0.34	0.66	-0.39	0.91	-0.14	-0.43	-0.15	0.71																			
K %	0.21	-0.25	-0.09	0.72	0.06	0.12	-0.20	-0.11	-0.46	0.50	-0.40	-0.58	-0.28																		
LI ppm	0.28	0.80	-0.05	-0.35	0.04	0.19	0.31	-0.05	0.26	-0.09	-0.02	0.05	0.10	-0.12																	
MG %	0.51	0.02	-0.36	-0.39	0.32	-0.19	0.86	-0.35	0.48	-0.28	0.59	0.04	-0.38	-0.13	0.19																
MN ppm	0.35	0.15	-0.52	-0.25	0.56	-0.21	0.65	-0.50	0.75	-0.24	0.86	0.22	-0.41	-0.39	0.22	0.66															
MO ppm	-0.10	0.00	0.87	-0.04	-0.18	0.39	-0.28	0.88	-0.23	-0.20	-0.22	0.44	0.74	0.00	0.03	-0.26	-0.38														
NA %	0.04	-0.28	-0.31	0.21	-0.18	-0.38	0.07	-0.31	-0.01	0.31	0.00	-0.22	-0.35	0.05	-0.40	0.17	0.05	-0.14													
NI ppm	-0.06	0.87	-0.18	0.01	-0.09	-0.10	0.40	-0.17	0.42	0.32	-0.03	-0.19	-0.09	-0.18	0.51	-0.05	0.02	-0.12	-0.12												
P ppm	-0.08	0.21	-0.11	-0.14	0.27	0.14	0.50	-0.08	0.86	-0.33	0.78	0.62	0.11	-0.57	0.16	0.30	0.65	-0.07	-0.05	0.29											
PB ppm	-0.07	-0.21	0.18	-0.08	0.31	0.23	0.32	0.21	0.63	-0.51	0.77	0.76	0.28	-0.39	-0.13	0.32	0.50	0.17	-0.12	-0.17	0.83										
SB ppm	-0.06	-0.11	0.85	-0.15	0.02	0.25	-0.12	0.87	0.14	-0.47	0.21	0.73	0.75	-0.29	-0.11	-0.11	-0.12	0.79	-0.21	-0.18	0.26	0.56									
SN ppm	-0.10	-0.11	0.05	-0.21	0.03	-0.10	-0.20	0.04	-0.23	-0.33	-0.29	0.02	0.08	-0.02	-0.09	-0.18	-0.28	-0.04	-0.21	-0.11	-0.21	-0.15	-0.14								
SR ppm	0.60	0.00	-0.28	-0.32	0.38	-0.15	0.89	-0.26	0.56	-0.30	0.62	0.11	-0.33	-0.11	0.13	0.97	0.63	-0.19	0.17	-0.02	0.35	0.38	-0.01	-0.19							
TH ppm	-0.16	-0.14	0.68	-0.30	0.09	0.51	-0.19	0.70	0.28	-0.66	0.27	0.96	0.81	-0.49	-0.03	-0.21	0.01	0.53	-0.27	-0.20	0.52	0.69	0.78	0.05	-0.12						
TI %	-0.11	0.87	-0.23	-0.12	-0.21	-0.11	0.21	-0.23	0.24	0.42	0.00	-0.26	-0.09	-0.24	0.50	-0.06	0.15	-0.15	-0.06	0.80	0.14	-0.30	-0.27	-0.15	-0.12	-0.28					
U ppm	-0.03	-0.13	0.54	-0.37	0.20	0.46	0.08	0.57	0.48	-0.72	0.49	0.99	0.68	-0.54	0.01	0.07	0.24	0.41	-0.21	-0.18	0.68	0.83	0.74	-0.05	0.16	0.96	-0.28				
V ppm	0.00	-0.08	-0.06	-0.18	0.34	0.06	0.44	-0.02	0.81	-0.48	0.81	0.71	0.12	-0.58	-0.07	0.35	0.63	-0.07	0.06	0.01	0.93	0.91	0.36	-0.15	0.41	0.61	-0.15	0.77			
ZN ppm	0.19	0.06	0.07	-0.42	0.54	0.22	0.31	0.09	0.69	-0.71	0.71	0.78	0.23	-0.56	0.27	0.28	0.68	0.00	-0.31	-0.09	0.74	0.72	0.36	-0.12	0.31	0.66	-0.13	0.78	0.78		
Hg ppb	0.00	-0.06	0.91	-0.16	-0.08	0.27	-0.29	0.92	-0.24	-0.35	-0.26	0.47	0.74	-0.04	-0.03	-0.25	-0.43	0.94	-0.20	-0.18	-0.17	0.12	0.81	0.17	-0.17	0.55	-0.24	0.42	-0.10	0.00	
Au-Fire	-0.04	0.84	-0.23	-0.03	0.03	-0.08	0.51	-0.22	0.56	0.26	0.13	-0.10	-0.13	-0.25	0.50	0.08	0.18	-0.16	-0.20	0.96	0.44	0.01	-0.16	-0.09	0.11	-0.14	0.76	-0.08	0.17	0.03	-0.22

Soils	AGppm	AL %	AS ppm	BA ppm	BE ppm	CA %	CD ppm	CO ppm	CR ppm	CU ppm	FE %	K %	LI ppm	MG %	MN ppm	NA %	NI ppm	P ppm	PB ppm	SB ppm	SN ppm	SR ppm	TH ppm	TI %	U ppm	V ppm	W ppm	ZN ppm	Hg ppb
AGppm																													
AL %	0.51																												
AS ppm	0.19	0.26																											
BA ppm	0.81	0.66	0.32																										
BE ppm	0.87	0.60	0.21	0.84																									
CA %	0.66	0.52	0.30	0.84	0.72																								
CD ppm	0.58	0.32	0.62	0.59	0.59	0.58																							
CO ppm	0.16	0.35	0.57	0.31	0.29	0.31	0.63																						
CR ppm	0.36	0.68	0.38	0.50	0.44	0.48	0.55	0.66																					
CU ppm	0.42	0.47	0.60	0.49	0.47	0.46	0.51	0.60	0.39																				
FE %	0.20	0.44	0.63	0.32	0.31	0.28	0.57	0.93	0.61	0.68																			
GA ppm	0.20	0.64	0.12	0.15	0.18	0.06	-0.12	0.04	0.25	0.22	0.27																		
K %	0.47	0.61	0.27	0.69	0.54	0.55	0.41	0.40	0.47	0.54	0.45																		
LI ppm	0.09	0.44	0.43	0.17	0.11	0.25	0.20	0.56	0.46	0.46	0.63	0.23																	
MG %	0.46	0.62	0.27	0.61	0.53	0.65	0.27	0.30	0.47	0.70	0.32	0.58	0.33																
MN ppm	0.24	0.29	0.47	0.41	0.36	0.42	0.75	0.85	0.64	0.46	0.71	0.38	0.38	0.23															
NA %	0.40	0.43	0.12	0.55	0.39	0.67	0.18	0.07	0.33	0.29	0.09	0.45	0.20	0.59	0.09														
NI ppm	0.66	0.81	0.46	0.81	0.77	0.72	0.61	0.53	0.78	0.58	0.54	0.67	0.34	0.70	0.48	0.50													
P ppm	0.12	0.41	0.30	0.23	0.16	0.10	0.36	0.51	0.41	0.25	0.54	0.37	0.26	0.07	0.50	-0.05	0.30												
PB ppm	0.57	0.50	0.58	0.66	0.56	0.44	0.58	0.49	0.45	0.55	0.54	0.63	0.19	0.37	0.41	0.20	0.67	0.50											
SB ppm	0.15	0.23	0.83	0.27	0.19	0.26	0.68	0.62	0.41	0.66	0.67	0.31	0.33	0.23	0.49	0.07	0.44	0.30	0.57										
SN ppm	-0.04	-0.08	-0.05	-0.12	-0.04	-0.12	-0.01	-0.06	-0.06	-0.08	-0.05	-0.12	-0.11	-0.09	-0.01	-0.07	-0.06	0.01	0.04	-0.12									
SR ppm	0.70	0.51	0.12	0.81	0.75	0.86	0.45	0.13	0.36	0.36	0.13	0.59	0.08	0.66	0.18	0.67	0.68	0.05	0.44	0.13	-0.12								
TH ppm	0.16	0.41	0.61	0.28	0.26	0.23	0.55	0.92	0.58	0.63	0.99	0.42	0.62	0.25	0.69	0.06	0.49	0.54	0.52	0.67	-0.06	0.09							
TI %	-0.24	0.28	-0.14	-0.22	-0.23	-0.13	-0.29	-0.08	0.16	-0.12	-0.02	0.15	0.16	0.02	-0.20	0.13	-0.01	-0.01	-0.16	-0.09	-0.07	-0.13	0.01						
U ppm	0.17	0.39	0.61	0.29	0.26	0.25	0.55	0.93	0.59	0.65	0.98	0.43	0.62	0.29	0.71	0.08	0.50	0.52	0.53	0.65	-0.07	0.10	0.98	0.00					
V ppm	0.07	0.38	0.59	0.18	0.17	0.17	0.51	0.91	0.58	0.64	0.97	0.40	0.59	0.26	0.68	0.03	0.44	0.52	0.44	0.66	-0.06	0.01	0.97	0.11	0.95				
W ppm	-0.03	-0.08	0.66	0.00	-0.03	0.01	0.49	0.17	0.03	0.28	0.21	-0.01	-0.09	-0.06	0.15	-0.05	0.10	0.03	0.27	0.77	-0.02	-0.06	0.22	-0.11	0.19	0.25			
ZN ppm	0.39	0.38	0.61	0.43	0.38	0.30	0.71	0.66	0.46	0.49	0.74	0.50	0.43	0.12	0.55	0.04	0.49	0.56	0.72	0.71	0.01	0.27	0.75	-0.12	0.73	0.67	0.41		
Hg ppb	0.22	0.15	0.75	0.38	0.22	0.40	0.58	0.30	0.26	0.47	0.33	0.20	0.07	0.25	0.28	0.23	0.38	0.12	0.50	0.79	-0.08	0.25	0.33	-0.19	0.32	0.30	0.74	0.46	
Au-Fire pp	-0.03	-0.02	0.03	-0.11	-0.03	-0.09	-0.08	-0.05	-0.06	0.01	0.00	-0.11	-0.10	-0.02	-0.02	0.02	-0.06	0.04	-0.08	-0.05	-0.05	-0.09	0.00	0.00	0.04	-0.03	-0.01	-0.08	-0.08

CONCLUSIONS

1. The anomalous rock samples geochemistry present in the northern portion of the Pimpernel mineral claim is related to elevated Fe, Mn values present in limonitic fracture coatings, which may originate from oxidizing mineralization at depth.

2. Limited As, Cu-anomalous local drainage geochemistry indicates that the north-central ridge area may be underlain by mineralization-related structures.

3. Multi-trace-elements anomalous soils geochemistry is likely caused by strongly oxidized high-angle structures, which may lead to detection of mineralization at depth.

RECOMMENDATIONS

1. Additional parallel soil sample lines are required to define the strike and extent of trace-element anomalous structures present in the northern portion of the Pimpernel mineral claim.

2. Processing of all rock, sediment and soil samples for heavy minerals (H.M.s) fraction is needed to enhance the detectability of anomalous precious metals values in the Pimpernel property area.

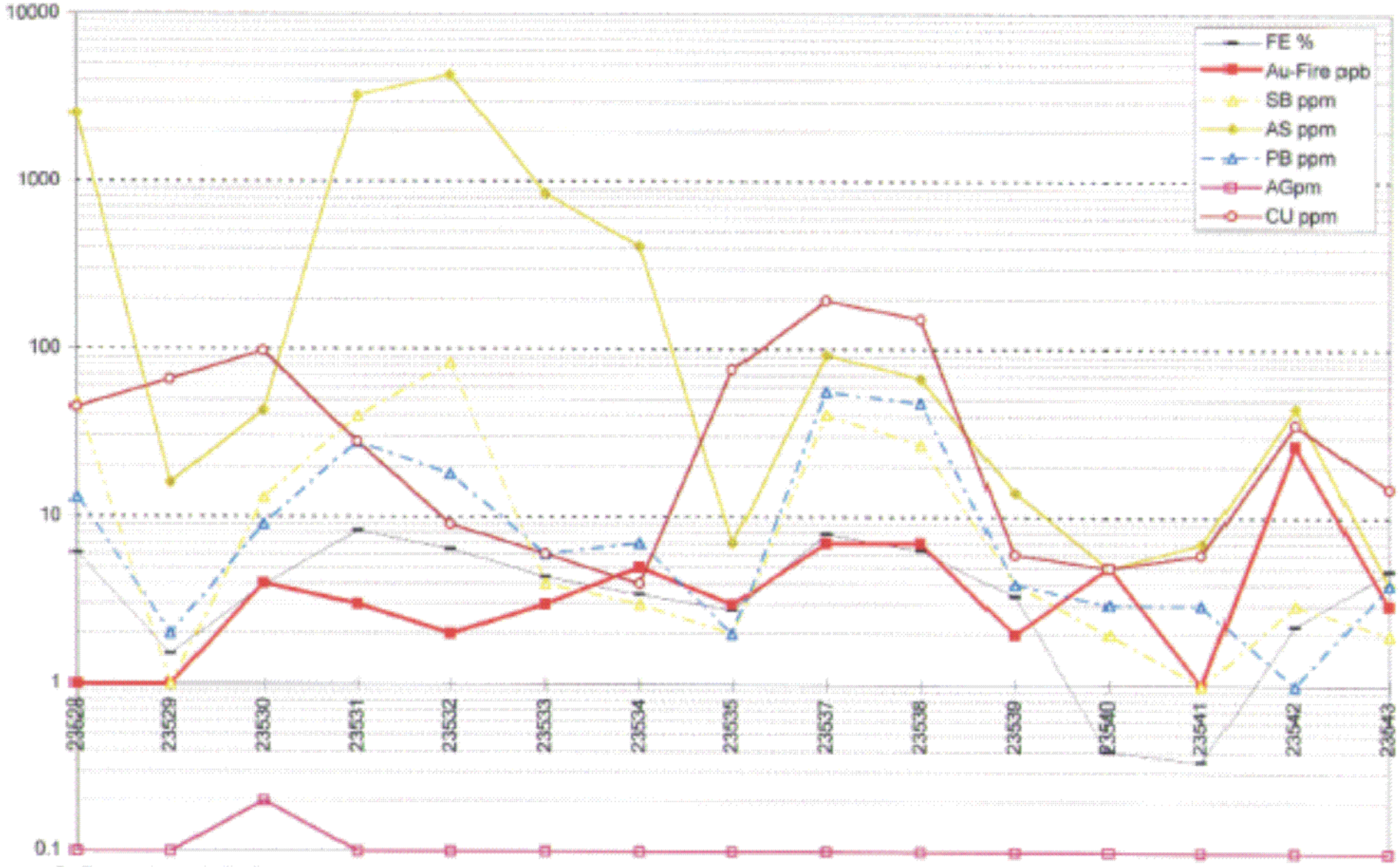
REFERENCES

Church, B.N., Geology, Exploration and Mining in British Columbia, 1972, p. 374-377.

for Electrum Resources

Pimpernel Rocks '97

CHART 1A



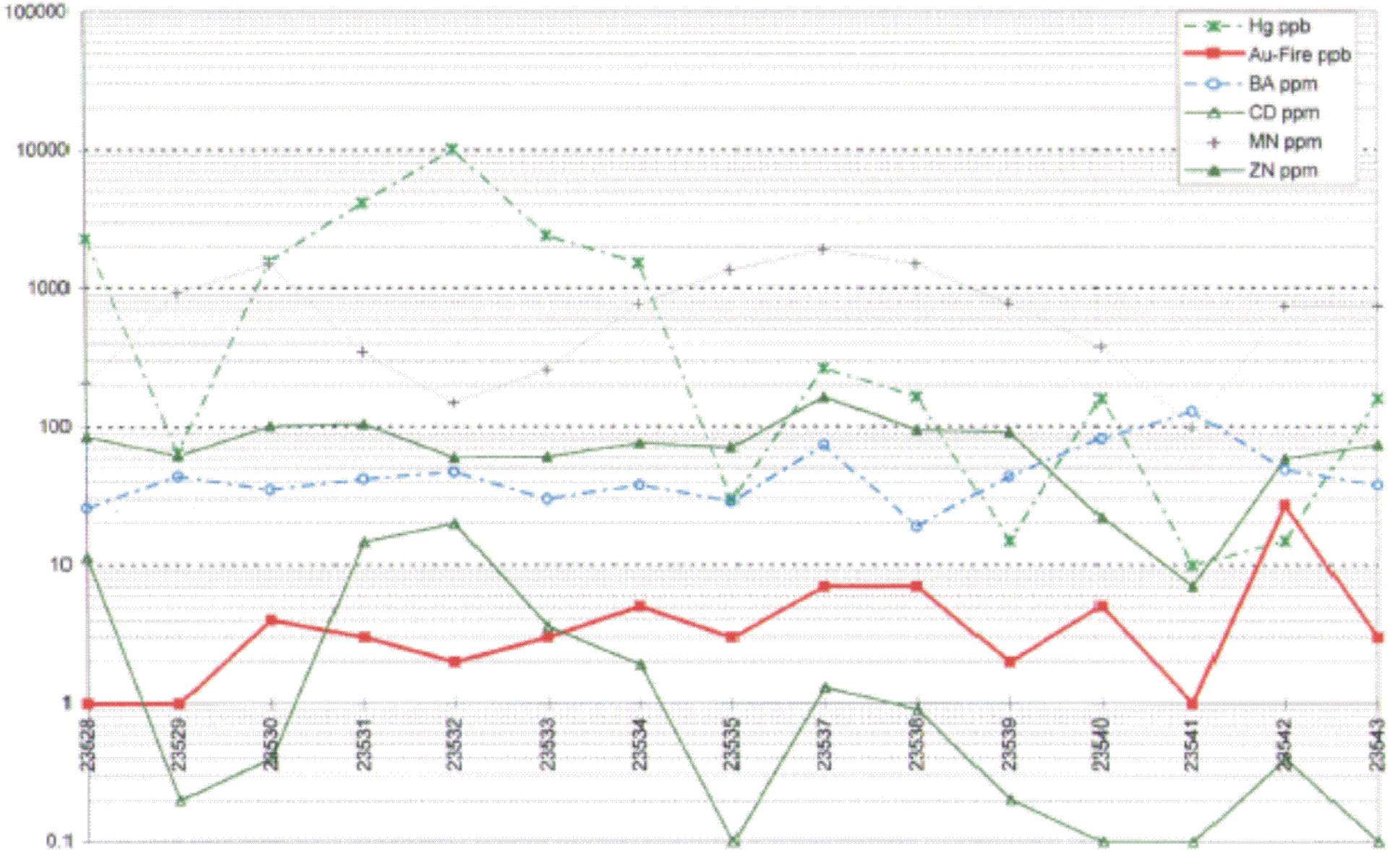
S. Zastavnikovich, P. Geo.

Feb.'98

for Electrum Resources

Pimpernel Rocks '97

CHART 1B



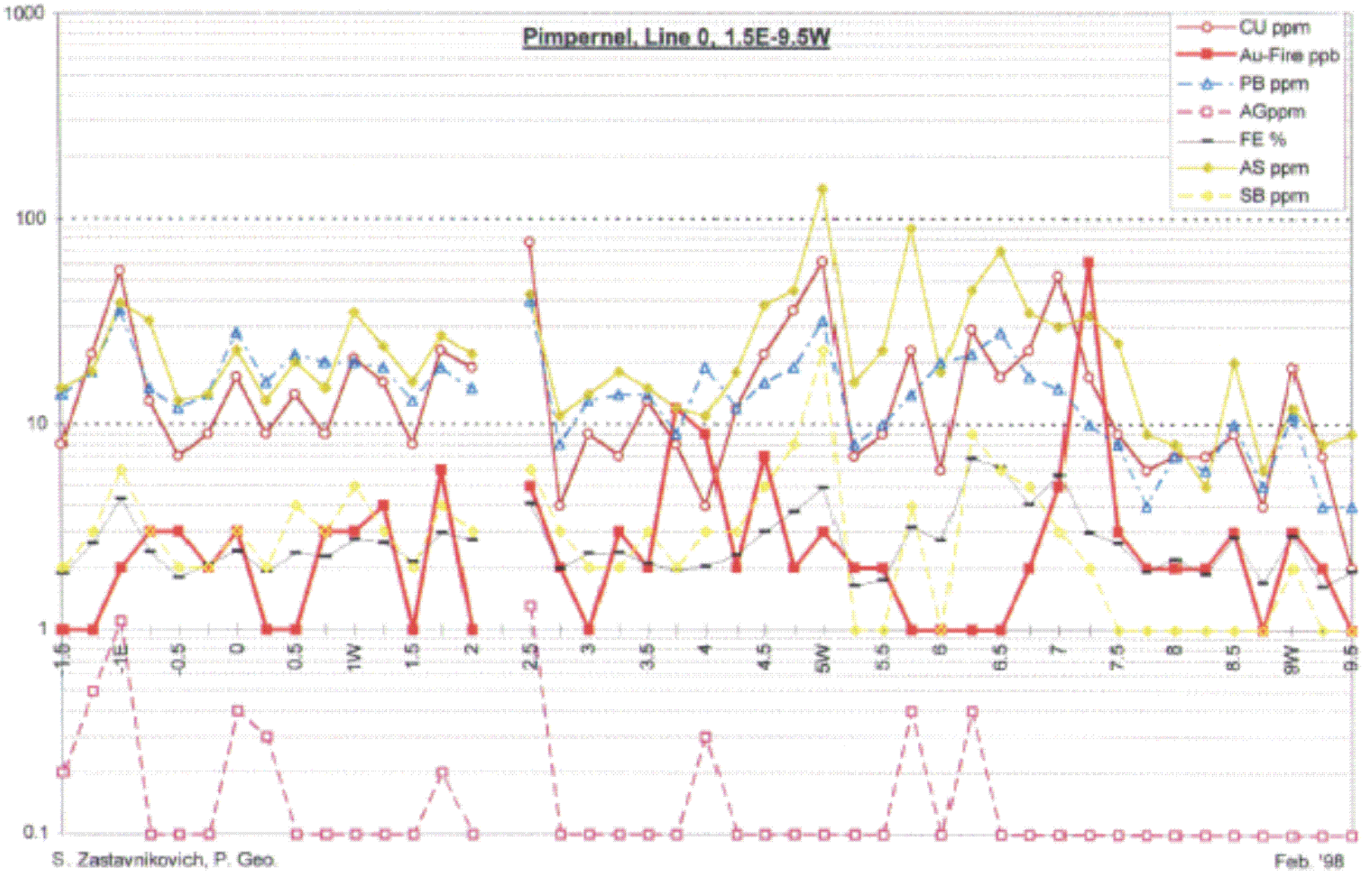
S. Zastavnikovich, P. Geo.

Feb. '98

for Electrum Resources

Pimpernel Soils '97

CHART 2A



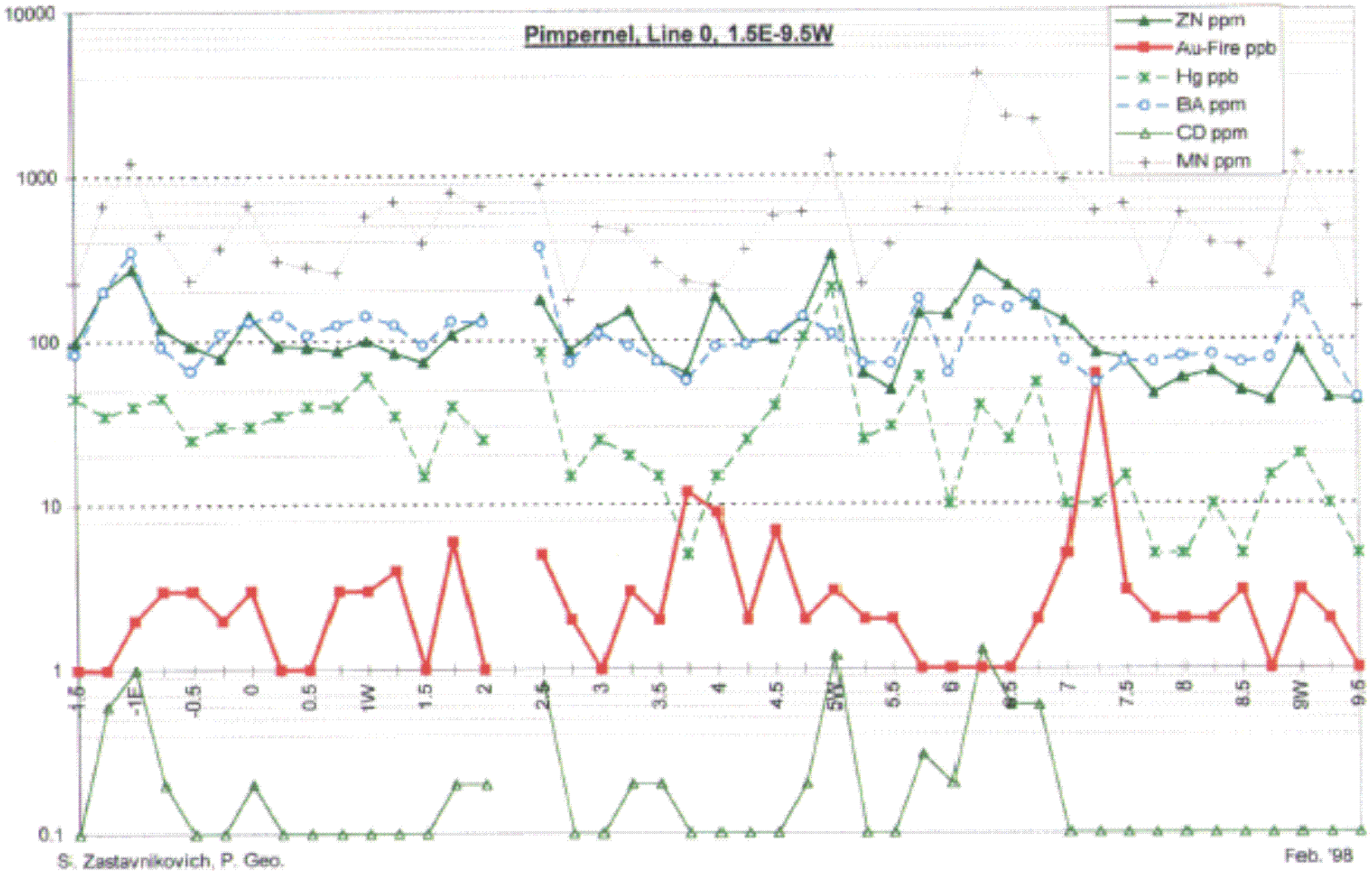
S. Zastavnikovich, P. Geo.

Feb. '98

for Electrum Resources

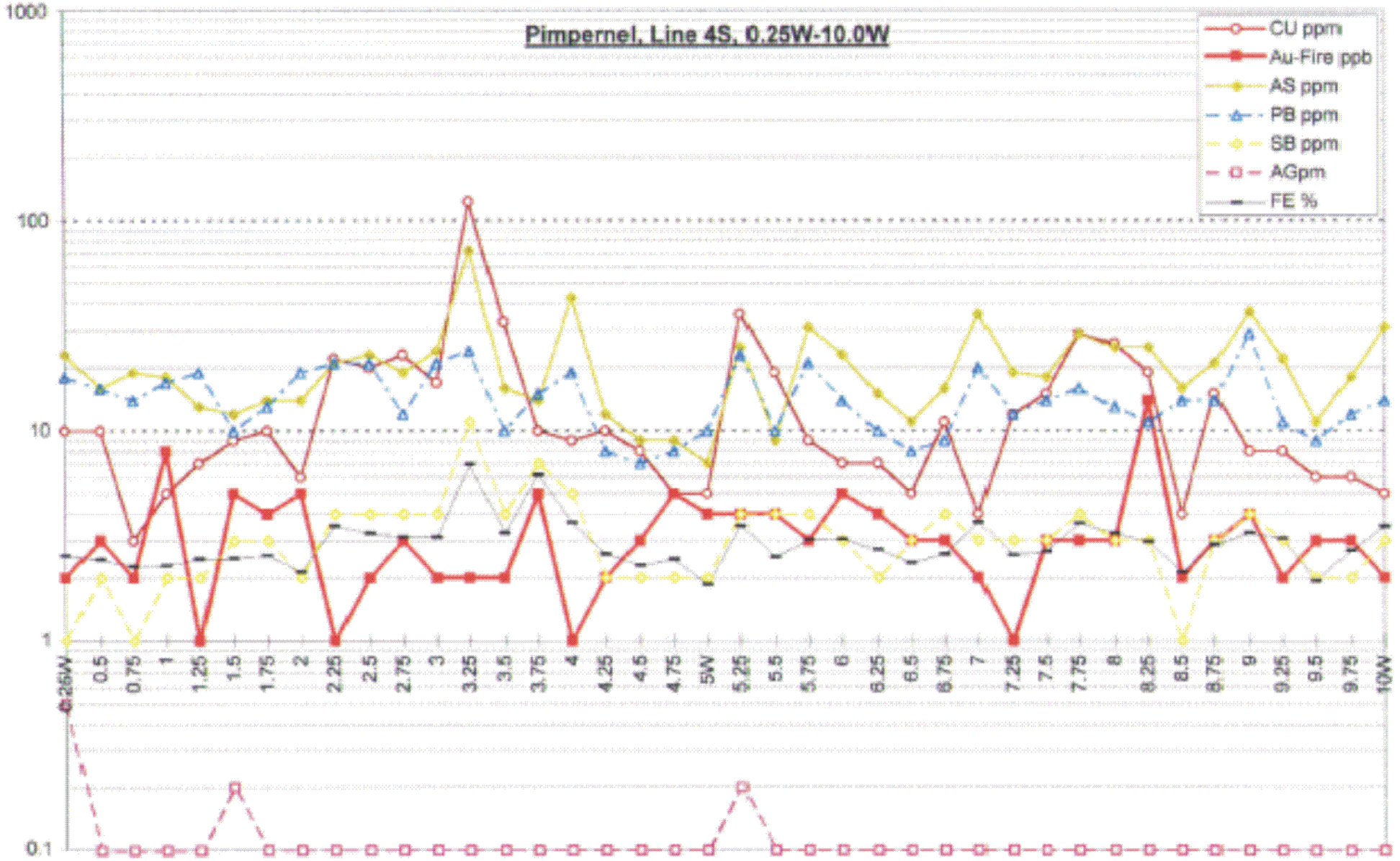
Pimpernel Soils '97

CHART 2B



S. Zastavnikovich, P. Geo.

Feb. '98


Pimpernel, Line 4S, 0.25W-10.0W
CU ppm
Au-Fire ppb
AS ppm
PB ppm
SB ppm
AGppm
FE %
1000
100
10
1
0.1
0.25W
0.5
0.75
1
1.25
1.5
1.75
2
2.25
2.5
2.75
3
3.25
3.5
3.75
4
4.25
4.5
4.75
5W
5.25
5.5
5.75
6
6.25
6.5
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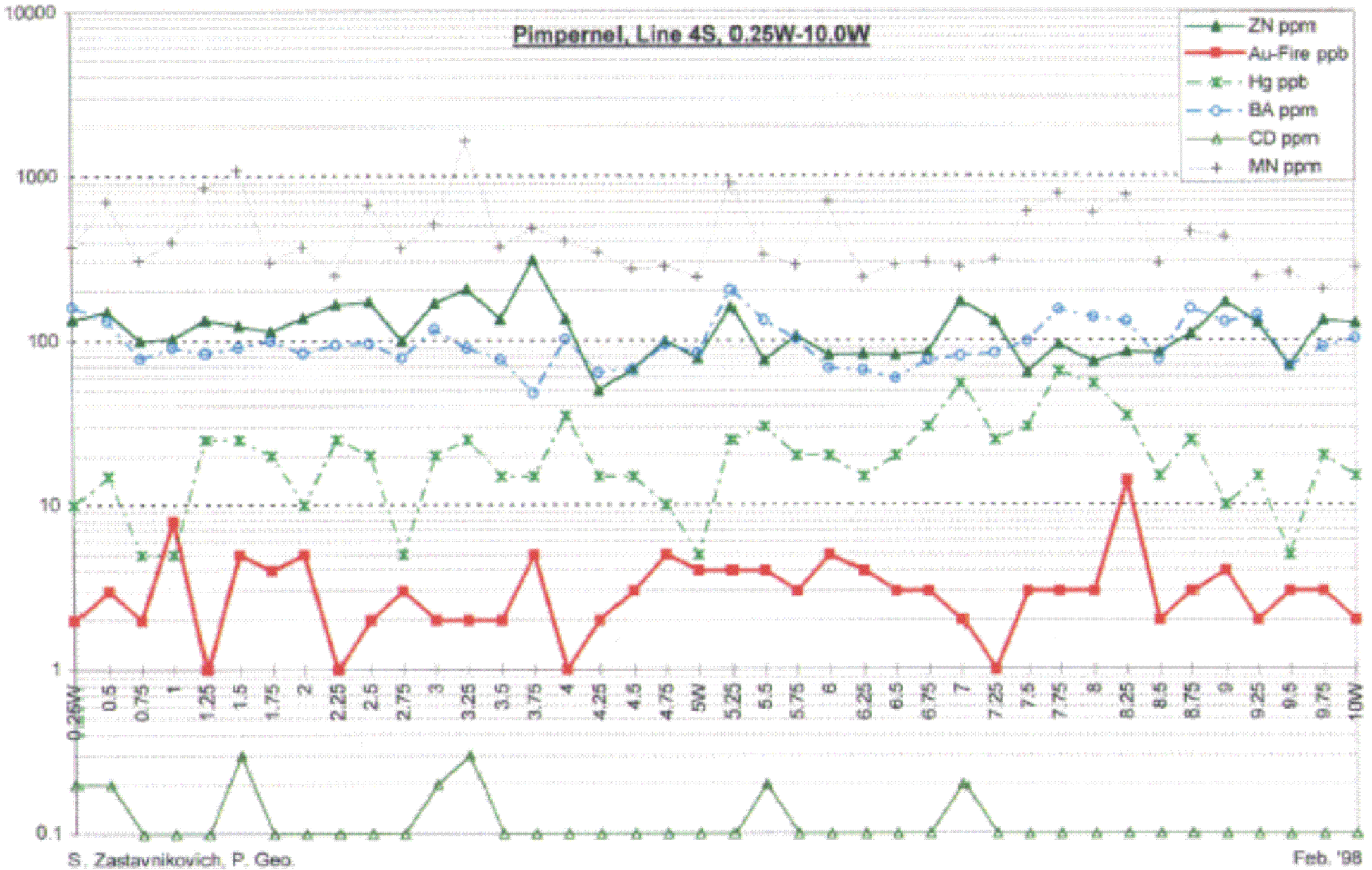


S. Zastavnikovich, P. Geo.

Feb. '98

CERTIFICATE

I, Sam Zastavnikovich, do hereby certify that:

1. *I am a consulting geochemist with offices at 5063-56th Street, Delta, B.C., V4K 3C3, and am a 1969 graduate of the University of Alberta, with B. Ed. degree in Physical Sciences.*

2. *I have been continuously employed from 1969 to 1982, and seasonally since 1966, by Falconbridge Ltd. of Toronto and Vancouver as field geochemist working in Canada, U.S.A., the Carribean and S. America.*

3. *Since 1982 to present I have continuously practiced as a consulting geochemist in the mineral exploration industry.*

4. *I am a Fellow of the Association of Exploration Geochemists.*

5. *I am a member in good standing of the the Association of Professional Engineers and Geoscientists of British Columbia, Canada.*

6. *I have no direct nor indirect interest in the subject properties or the client company.*

7. *This report is based on my own fieldwork and observations on the property.*

S. Zastavnikovich, P.Geo.
Consulting Geochemist

PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
S. Zastavnikovich

APPENDIX I

Statement of Expenditures

PIMPERNEL Mineral Claim

Fieldwork & travel (July 20-24, 1997)

S. Zastavnikovich, geochemist, 5 days @ $375/d	1875.00
A. Gratton, helper 5 days @ $125/d	625.00
Food 2 men, 5 days @ $60/d	300.00
Lodging, trailer, 5 days @ $40/d	200.00
Transport, 4 x 4 truck, 5 days @ $50/d	250.00
Fuel and mileage	122.19
Field Supplies, Telephone	85.00
2-way Radio Rental, 5 days @ $20/d	100.00
Analysis:	
87 soils, seds samples, prep @ $1.50	130.50
15 rock samples, prep @ $5.00	75.00
102 analysis for ICP & Hg & fire Au @ $21.30 (7.30+6.50+7.50)	2172.60
GST on Analysis	166.46
Assessment Report:	
Mileage, parking	20.00
Rock Descriptions, C.F. Staargaard, P.Geo.	150.00
Report preparation & interpretation	1500.00
Report typing, maps, reproductions	150.00
Total Expenditure	$ 7,921.75

Appendix II

Electrum Resources

Descriptions of Rock Samples from the Pimpernel Creek Area, British Columbia

January 1998

23528 Pinkish red, plagioclase-phyric intermediate volcanic rock. Strongly brecciated and limonitic.

23529 Fine to medium grained, intermediate to felsic intrusive rock. Moderate pervasive sericitization. Highly fractured with dusting of hematite and later limonite on fracture surfaces. Some carbonate ± quartz on fractures.

23530 Rhyolitic lapilli tuff or tuff breccia. Many pinkish fragments have a darker, possibly chloritic rim. Trace to 1% disseminated pyrite. Minor carbonate on fractures.

23531 Light pink, plagioclase-phyric intermediate volcanic rock. Weathered and oxidized with strong limonite on fractures. Possible weak pervasive argillitization.

23532 Plagioclase-phyric intermediate volcanic rock. Possible weak pervasive silicification. Strongly weathered and limonitic. Azurite staining on some fractures.

23533 Pink, plagioclase-phyric intermediate volcanic rock or possibly a leucogranodiorite with *few, if any, mafic minerals. Strongly weathered, with abundant azurite, malachite* and limonite staining on fractures.

23534 Grayish intermediate to felsic crystal lithic tuff. Trace disseminated pyrite. Minor limonite on fractures.

23535 Intermediate to felsic volcanic rock. Potassium feldspar, epidote and pyrite ± chalcopyrite along some fractures. Some azurite and malachite staining.

23536 Fine grained quartz feldspar porphyry with abundant epidote along one fracture. Possibly a dyke.

23537 Fine grained, plagioclase-phyric volcanic rock. Small, very limonitic specimen thus difficult to identify. 1mm quartz vein on one fracture surface.

23538 Fine grained granite or granodiorite. Minor hairline quartz veinlets. Weak limonite staining on fractures.

23539 Reddish brown, fine grained sediment or possibly an aphanitic to microcrystalline volcanic rock. Strongly fractured or brecciated. Moderate pervasive silicification with some open spaces. Minor limonite on fractures.

23540 White flow-banded rhyolite or possibly a banded, crystal lithic tuff. Weak limonite staining on fractures.

23541 Grey to white flow banded rhyolite.

23542 Small weathered piece of intermediate to felsic intrusive rock. Azurite staining and spotty limonite on weathered surfaces and fractures.

23543 Dark grey, intermediate to felsic volcanic. Weak to moderate pervasive sericitization. White silica ± feldspar with minor limonite on hairline fractures. Fractures have 2-4mm wide oxidized envelopes.

PHONE: (604) 980-5814 or 988-4524 TELEX: 04-352828

APPENDIX III

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

FIRE GOLD GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Geochemical samples for Fire Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 15.00 or 30.00 grams are fire assay preconcentrated.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 1 ppb.

APPENDIX

Analytical Procedure - The samples were analyzed by Min-En Laboratories Ltd. of 705 West 15th St., N.Vanc, as follows:

The stream sediments were oven-dried in their original water-resistant kraft paper bags at 95°C and screened to obtain the minus 80 mesh fraction for analysis. The rock samples were crushed and pulverized in a ceramic-plated pulverizer.

A suitable weight og 5.0 or 10.0 grams is pretreated with HNO_3 and $HClO_4$ mixture.

After pretreatment the samples are digested with Aqua Regia solution, then taken up with 25% HCl to suitable volume and aliquot used for the 26 element ICP trace element analysis.

From the major remaining portion of the sample, Gold is preconcentrated by standard fire assay methods, then extracted with Methyl Iso-Butyl Ketone and analyzed by Atomic Absorption.

For Mercury analysis, 1 gram of sieved material is sintered at 90°c for 4 hours, then digested in HNO_3 and HCl acids mixture, and analyzed by the Hatch and Ott flameless AA method.

PIMPERNEL - ROCKS

ANALYTICAL RESULTS '97

from MIN-EN LABs

Rocks	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	Th	Ti	U	V	W	Zn	Hg	Au
	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	ppb
23528	0.1	0.47	2540	26	0.1	1	0.1	11.3	7	19	45	6.04	4	0.03	2	0.03	208	1	0.02	4	390	13	48	1	12	27	0.01	8	66.2	1	84	2300	1
23529	0.1	0.39	16	44	0.1	1	2.98	0.2	3	40	66	1.51	1	0.07	3	1.02	925	1	0.03	2	250	2	1	1	99	3	0.01	2	12.6	1	62	65	1
23530	0.2	0.91	43	35	0.2	1	4.95	0.4	19	35	98	3.9	1	0.08	8	1.81	1492	1	0.03	6	530	9	13	1	216	10	0.01	5	61.9	1	101	1550	4
23531	0.1	0.65	3265	42	0.1	2	0.1	14.7	6	25	28	8.2	6	0.07	7	0.03	349	2	0.01	2	1170	28	40	1	15	37	0.01	11	77.7	1	105	4155	3
23532	0.1	0.74	4336	47	0.1	1	0.1	19.9	3	34	9	6.4	5	0.05	4	0.04	150	3	0.03	3	340	18	83	7	20	29	0.01	8	36.2	1	60	10170	2
23533	0.1	0.58	847	30	0.1	1	0.1	3.6	3	16	6	4.36	3	0.05	4	0.02	259	1	0.02	3	360	6	4	61	5	19	0.01	5	38.8	1	61	2425	3
23534	0.1	0.44	412	38	0.2	1	1.84	1.9	7	24	4	3.45	1	0.07	4	0.71	768	1	0.02	6	270	7	3	22	59	12	0.01	4	26.7	1	76	1535	5
23535	0.1	1.13	7	29	0.1	1	0.4	0.1	5	78	76	2.78	2	0.04	6	0.55	1357	1	0.03	3	420	2	2	1	21	9	0.08	3	10.3	1	71	30	3
23537	0.1	0.54	93	74	0.2	1	2.23	1.3	27	21	196	7.89	2	0.03	3	0.32	1911	1	0.02	9	2690	56	41	1	53	33	0.01	11	236	1	164	265	7
23538	0.1	0.48	67	19	0.1	1	5.63	0.9	19	21	151	6.32	2	0.02	4	2.33	1498	1	0.04	6	2090	48	27	1	234	20	0.01	9	194.1	1	95	165	7
23539	0.1	0.99	14	44	0.1	1	0.14	0.2	3	44	6	3.37	2	0.06	11	0.36	776	1	0.02	3	480	4	4	1	7	13	0.01	4	29	1	91	15	2
23540	0.1	0.35	5	82	0.1	1	0.1	0.1	1	114	5	0.4	1	0.08	1	0.02	380	1	0.02	3	40	3	2	1	11	4	0.01	1	2.4	1	22	160	5
23541	0.1	0.21	7	129	0.1	1	0.1	0.1	1	119	6	0.35	1	0.14	1	0.04	98	1	0.05	5	20	3	1	1	12	3	0.01	1	2	1	7	10	1
23542	0.1	2.44	45	49	0.1	1	4.3	0.4	20	91	36	2.25	2	0.04	11	0.36	740	1	0.02	115	1450	1	3	1	45	8	0.11	3	53	1	59	15	27
23543	0.1	0.41	4	38	0.1	1	0.38	0.1	10	58	15	4.86	2	0.02	2	0.04	737	1	0.06	10	950	4	2	1	11	20	0.02	6	98.9	1	74	160	3

File #7S-0173

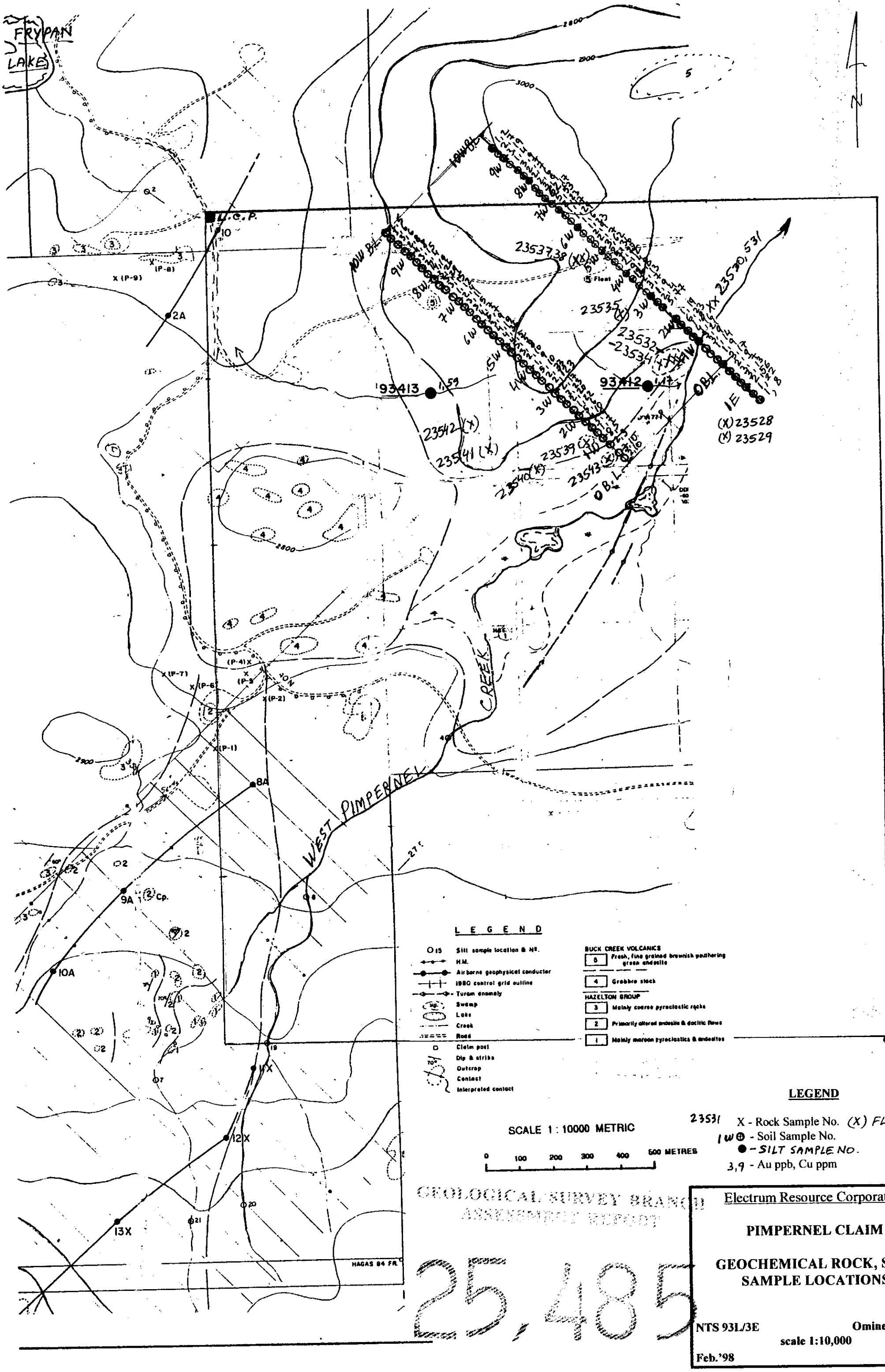
PIMPERNEL - SOILS, SEDS. ANALYTICAL RESULTS '97 from MIN-EN LABs

Soils	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	Th	Ti	U	V	W	Zn	Hg	Au
	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	ppb
L-01.50E	0.2	1	15	84	0.1	1	0.2	0.1	4	11	8	1.87	2	0.03	7	0.3	225	1	0.01	7	600	14	2	1	16	7	0.02	2	31.6	1	98	45	1
L-01.25E	0.5	1.62	18	201	0.3	1	0.8	0.6	6	17	22	2.63	3	0.06	6	0.5	662	1	0.02	12	760	18	3	1	99	9	0.02	3	40.8	1	203	35	1
L-01.00E	1.1	2.53	39	349	0.8	1	0.9	1	11	27	56	4.32	4	0.12	8	0.8	1212	1	0.02	24	1050	36	6	1	131	16	0.02	5	65	1	273	40	2
L-00.75E	0.1	0.93	32	93	0.1	1	0.4	0.2	6	14	13	2.39	2	0.04	6	0.4	444	1	0.01	8	540	15	3	1	50	9	0.02	3	42.2	1	120	45	3
L-00.50E	0.1	0.75	13	66	0.1	1	0.3	0.1	4	11	7	1.79	2	0.03	5	0.4	234	1	0.01	7	510	12	2	1	36	6	0.02	2	30.1	1	93	25	3
L-00.25E	0.1	1.01	14	111	0.1	1	0.2	0.1	5	13	9	2.08	2	0.03	7	0.3	363	1	0.01	8	550	14	2	1	21	8	0.02	3	36.5	1	79	30	2
L-00.00BL	0.4	1.31	23	131	0.1	1	0.2	0.2	6	16	17	2.4	2	0.05	6	0.4	689	1	0.01	10	710	28	3	1	25	9	0.02	3	39.5	1	142	30	3
L-00.25W	0.3	1.27	13	143	0.1	1	0.1	0.1	5	12	9	1.91	3	0.04	6	0.3	305	1	0.01	7	650	16	2	1	14	7	0.02	2	32.9	1	93	35	1
L-00.50W	0.1	1.19	20	108	0.1	1	0.2	0.1	6	15	14	2.35	3	0.04	7	0.4	281	1	0.01	10	290	22	4	1	28	9	0.02	3	38.2	1	91	40	1
L-00.75W	0.1	1.23	15	125	0.1	1	0.4	0.1	8	18	9	2.28	3	0.03	7	0.5	258	1	0.01	11	540	20	3	1	39	8	0.01	3	39.1	1	87	40	3
L-01.00W	0.1	1.15	35	142	0.2	1	0.4	0.1	8	16	21	2.74	2	0.04	7	0.4	570	1	0.01	11	620	20	5	1	41	11	0.02	3	43	1	100	60	3
L-01.25W	0.1	1.13	24	125	0.1	1	0.4	0.1	7	17	16	2.64	2	0.04	7	0.4	694	1	0.02	11	530	19	3	1	38	10	0.03	3	43	1	84	35	4
L-01.50W	0.1	0.79	16	94	0.1	1	0.2	0.1	5	13	8	2.14	2	0.03	6	0.3	394	1	0.01	7	290	13	2	1	22	8	0.04	3	38.1	1	74	15	1
L-01.75W	0.2	1.23	27	132	0.1	1	0.5	0.2	8	19	23	2.95	2	0.05	9	0.5	788	1	0.02	13	770	19	4	1	48	11	0.02	4	47.3	1	109	40	6
L-02.00W	0.1	1.41	22	129	0.1	1	0.5	0.2	7	17	19	2.72	3	0.05	8	0.5	647	1	0.01	12	600	15	3	1	55	10	0.02	3	43.7	1	137	25	1
L-02.50W	1.3	2.82	43	370	0.9	1	1.2	0.8	9	27	77	4.12	5	0.07	9	0.7	888	1	0.02	26	500	40	6	1	97	15	0.02	5	59.4	1	178	85	5
L-02.75W	0.1	0.69	11	74	0.1	1	0.2	0.1	4	9	4	1.98	2	0.03	7	0.2	176	1	0.01	5	210	8	3	1	19	7	0.03	2	37.2	1	87	15	2
L-03.00W	0.1	0.95	14	111	0.1	1	0.2	0.1	5	12	9	2.35	2	0.03	6	0.3	490	1	0.01	7	430	13	2	1	16	9	0.02	3	40	1	118	25	1
L-03.25W	0.1	1.1	18	93	0.1	1	0.2	0.2	6	13	7	2.36	2	0.05	6	0.3	462	1	0.01	9	400	14	2	1	14	8	0.03	3	39.8	1	152	20	3
L-03.50W	0.1	0.87	15	75	0.1	1	0.2	0.2	5	11	13	2.09	2	0.02	5	0.3	297	1	0.01	8	530	14	3	1	16	7	0.02	2	34.5	1	76	15	2
L-03.75W	0.1	0.87	12	57	0.1	1	0.1	0.1	4	11	8	1.94	2	0.03	6	0.3	229	1	0.01	7	390	9	2	1	10	7	0.02	2	33.6	1	63	5	12
L-04.00W	0.3	1.07	11	92	0.1	1	0.2	0.1	4	10	4	2.03	3	0.04	6	0.2	213	1	0.01	5	720	19	3	1	15	8	0.03	3	30.6	1	183	15	9
L-04.25W	0.1	1.21	18	94	0.1	1	0.3	0.1	5	14	12	2.3	3	0.04	7	0.4	358	1	0.01	10	630	12	3	1	18	8	0.02	3	35.8	1	96	25	2
L-04.50W	0.1	1.26	38	106	0.1	1	0.3	0.1	8	17	22	3	2	0.04	6	0.4	572	1	0.01	10	600	16	5	1	19	11	0.03	4	52.5	1	102	40	7
L-04.75W	0.1	1.29	45	140	0.1	1	0.4	0.2	9	18	36	3.76	3	0.04	6	0.4	596	1	0.01	10	660	19	8	1	24	15	0.02	5	66.5	1	140	105	2
L-05.00W	0.1	1.03	140	110	0.1	1	0.3	1.2	13	18	62	4.92	2	0.04	5	0.3	1323	1	0.01	13	700	32	23	1	16	20	0.02	6	101	2	331	210	3
L-05.25W	0.1	0.84	16	72	0.1	1	0.2	0.1	4	10	7	1.64	2	0.02	6	0.3	219	1	0.01	6	160	8	1	8	13	5	0.02	2	29.1	1	63	25	2
L-05.50W	0.1	0.83	23	72	0.1	1	0.3	0.1	5	11	9	1.74	2	0.02	5	0.3	381	1	0.01	7	340	10	1	1	17	6	0.02	2	31.8	1	50	30	2
L-05.75W	0.4	1.72	90	178	0.2	1	0.7	0.3	7	21	23	3.16	4	0.03	30	0.5	634	1	0.02	13	330	14	4	1	44	11	0.03	4	44.3	1	145	60	1
L-06.00W	0.1	1.18	18	83	0.1	1	0.1	0.2	6	15	6	2.72	3	0.03	5	0.3	611	1	0.01	9	780	20	1	27	10	10	0.03	3	46	1	142	10	1
L-06.25W	0.4	1.95	45	171	0.3	1	0.6	1.3	27	54	29	6.82	1	0.05	19	0.4	4107	1	0.01	19	1460	22	9	1	28	27	0.02	9	131	1	283	40	1
L-06.50W	0.1	1.55	70	158	0.3	1	0.4	0.6	22	21	17	6.19	2	0.06	12	0.2	2265	1	0.01	16	1100	28	6	1	26	25	0.02	8	109	1	214	25	1
L-06.75W	0.1	0.88	35	184	0.1	1	0.7	0.6	11	10	23	4.09	1	0.06	10	0.3	2153	1	0.01	6	980	17	5	1	26	16	0.02	5	75.2	1	161	55	2
L-07.00W	0.1	1.19	30	75	0.1	1	0.2	0.1	14	12	53	5.67	4	0.05	10	0.5	929	1	0.01	7	1120	15	3	1	9	22	0.02	7	123	1	129	10	5
L-07.25W	0.1	1.32	34	55	0.1	1	0.1	0.1	6	15	17	2.97	3	0.02	6	0.3	601	1	0.01	8	750	10	2	1	8	11	0.03	4	46.8	1	83	10	62
L-07.50W	0.1	1.36	25	74	0.1	1	0.2	0.1	5	15	9	2.65	2	0.02	6	0.3	661	1	0.01	8	810	8	1	1	14	10	0.03	3	43.7	1	77	15	3
L-07.75W	0.1	1.03	9	73	0.1	1	0.2	0.1	4	11	6	1.92	3	0.02	7	0.4	218	1	0.01	8	370	4	1	1	16	6	0.02	2	32.4	1	47	5	2
L-08.00W	0.1	1.13	8	79	0.1	1	0.2	0.1	5	14	7	2.2	2	0.02	6	0.4	577	1	0.01	8	470	7	1	3	20	8	0.03	3	38.7	1	58	5	2
L-08.25W	0.1	1.08	5	81	0.1	1	0.3	0.1	5	12	7	1.87	2	0.02	6	0.4	382	1	0.01	7	310	6	1	1	19	6	0.03	2	32	1	64	10	2
L-08.50W	0.1	1.25	20	72	0.1	1	0.2	0.1	7	18	9	2.83	3	0.02	6	0.4	371	1	0.01	10	380	10	1	1	17	10	0.03	3	54.2	1	49	5	3
L-08.75W	0.1	0.93	6	77	0.1	1	0.4	0.1	4	12	4	1.7	2	0.02	5	0.4	246	1	0.01	7	210	5	1	1	26	6	0.02	2	29	1	43	15	1
L-09.00W	0.1	1.97	12	175	0.4	1	0.4	0.1	8	19	19	2.87	2	0.04	8	0.4	1314	1	0.01	12	590	11	2	1	36	10	0.02	3	43.8	1	87	20	3
L-09.25W	0.1	0.89	8	84	0.1	1	0.2	0.1	4	11	7	1.62	2	0.02	6	0.3	472	1	0.01	6	240	4	1	1	20	6	0.02	2	28.6	1	44	10	2
L-09.50W	0.1	0.83	9	44	0.1	1	0.2	0.1	3	12	2	1.93	3	0.02	5	0.2	156	1	0.01	5	740	4	1	1	13	7	0.02	2	35.7	1	43	5	1

File #7S-0173

Soils	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	Th	Ti	U	V	W	Zn	Hg	Au
	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	ppb
L-4S0.25W	0.5	1.42	23	161	0.1	1	0.1	0.2	5	15	10	2.53	3	0.04	5	0.3	372	1	0.01	9	280	18	1	1	14	10	0.03	3	43.7	1	134	10	2
L-4S0.50W	0.1	1.12	16	132	0.1	1	0.3	0.2	6	14	10	2.44	2	0.05	5	0.3	695	1	0.01	9	840	16	2	1	24	9	0.03	3	40.7	1	150	15	3
L-4S0.75W	0.1	0.95	19	78	0.1	1	0.2	0.1	5	12	3	2.26	3	0.06	5	0.2	307	1	0.01	8	430	14	1	1	14	9	0.03	3	41	1	100	5	2
L-4S1.00W	0.1	0.95	18	91	0.1	1	0.2	0.1	5	12	5	2.28	2	0.05	4	0.3	397	1	0.01	8	410	17	2	1	16	9	0.03	3	41.3	1	103	5	8
L-4S1.25W	0.1	1.04	13	84	0.1	1	0.3	0.1	6	14	7	2.45	2	0.06	7	0.2	845	1	0.01	7	940	19	2	1	21	9	0.05	3	44.3	1	133	25	1
L-4S1.50W	0.2	1.41	12	91	0.1	1	0.2	0.3	6	15	9	2.46	2	0.04	8	0.3	1087	1	0.01	9	1100	10	3	1	18	10	0.05	3	46.1	1	123	25	5
L-4S1.75W	0.1	1.56	14	100	0.1	1	0.2	0.1	6	16	10	2.53	3	0.04	8	0.3	300	1	0.01	11	770	13	3	1	15	10	0.05	3	46.4	1	114	20	4
L-4S2.00W	0.1	1.24	14	84	0.1	1	0.2	0.1	4	13	6	2.12	3	0.04	8	0.2	372	1	0.01	6	590	19	2	1	17	8	0.05	3	41.1	1	137	10	5
L-4S2.25W	0.1	2.4	21	95	0.1	1	0.2	0.1	8	20	22	3.51	6	0.04	12	0.4	249	1	0.01	11	1430	21	4	1	15	14	0.05	4	65.8	1	166	25	1
L-4S2.50W	0.1	2.03	23	98	0.1	1	0.2	0.1	9	23	20	3.24	4	0.05	10	0.4	670	1	0.01	12	1210	21	4	1	19	13	0.07	4	63.8	1	172	20	2
L-4S2.75W	0.1	1.55	19	79	0.1	1	0.3	0.1	8	22	23	3.1	4	0.05	8	0.4	362	1	0.01	12	510	12	4	1	20	12	0.08	4	63.9	1	100	5	3
L-4S3.00W	0.1	1.39	24	118	0.1	1	0.4	0.2	7	19	17	3.11	3	0.07	9	0.4	506	1	0.01	10	420	21	4	1	23	12	0.06	4	58.8	1	169	20	2
L-4S3.25W	0.1	1.85	72	90	0.1	1	0.3	0.3	20	20	123	6.92	4	0.07	28	0.7	1643	1	0.01	12	870	24	11	1	14	27	0.04	9	131	1	206	25	2
L-4S3.50W	0.1	1.24	16	77	0.1	1	0.2	0.1	8	16	33	3.25	3	0.06	14	0.4	371	1	0.01	10	370	10	4	1	15	13	0.05	4	65.2	1	134	15	2
L-4S3.75W	0.1	0.76	14	48	0.1	1	0.1	0.1	15	14	10	6.17	4	0.02	18	0.1	480	1	0.01	7	620	15	7	1	18	27	0.02	8	104	1	307	15	5
L-4S4.00W	0.1	1.54	43	102	0.1	1	0.2	0.1	7	33	9	3.64	5	0.04	12	0.3	402	1	0.01	13	900	19	5	1	16	14	0.05	4	70.8	1	135	35	1
L-4S4.25W	0.1	1.32	12	64	0.1	1	0.3	0.1	7	17	10	2.57	3	0.04	7	0.4	344	1	0.01	9	400	8	2	1	21	9	0.06	3	50.7	1	50	15	2
L-4S4.50W	0.1	1.29	9	67	0.1	1	0.2	0.1	5	15	8	2.28	3	0.03	8	0.4	272	1	0.02	8	370	7	2	1	22	9	0.06	3	45.1	1	67	15	3
L-4S4.75W	0.1	1.25	9	95	0.1	1	0.3	0.1	6	17	5	2.44	3	0.04	9	0.3	282	1	0.01	9	430	8	2	1	34	10	0.07	3	51.6	1	100	10	5
L-4S5.00W	0.1	0.97	7	84	0.1	1	0.3	0.1	4	12	5	1.85	2	0.03	7	0.3	243	1	0.01	6	230	10	2	1	26	7	0.06	2	38.7	1	78	5	4
L-4S5.25W	0.2	2.63	25	203	0.3	1	0.5	0.1	8	28	36	3.51	4	0.09	12	0.6	900	1	0.02	18	650	23	4	1	55	13	0.04	4	63.9	1	160	25	4
L-4S5.50W	0.1	1.59	9	133	0.1	1	0.5	0.2	6	17	19	2.5	3	0.04	8	0.4	334	1	0.02	10	340	10	4	1	59	10	0.05	3	47.4	1	76	30	4
L-4S5.75W	0.1	1.5	31	103	0.1	1	0.2	0.1	7	19	9	3.01	4	0.04	6	0.3	287	1	0.01	12	390	21	4	2	26	12	0.05	4	57.4	1	107	20	3
L-4S6.00W	0.1	1.35	23	68	0.1	1	0.2	0.1	7	17	7	3.03	3	0.03	9	0.3	699	1	0.01	9	390	14	3	1	25	11	0.06	4	60.5	1	82	20	5
L-4S6.25W	0.1	1.53	15	88	0.1	1	0.2	0.1	6	16	7	2.71	4	0.03	10	0.4	242	1	0.01	10	340	10	2	1	19	10	0.05	3	51.9	1	83	15	4
L-4S6.50W	0.1	1.26	11	59	0.1	1	0.3	0.1	5	14	5	2.34	3	0.03	9	0.4	268	1	0.01	8	310	8	3	1	23	9	0.06	3	46	1	82	20	3
L-4S6.75W	0.1	1.54	16	76	0.1	1	0.3	0.1	6	17	11	2.58	4	0.04	9	0.4	300	1	0.01	10	420	9	4	1	29	10	0.05	3	49.7	1	85	30	3
L-4S7.00W	0.1	1.74	36	81	0.1	1	0.2	0.2	7	17	4	3.66	5	0.04	13	0.3	280	1	0.01	8	1170	20	3	1	15	15	0.06	5	68.9	1	173	55	2
L-4S7.25W	0.1	1.48	19	84	0.1	1	0.2	0.1	6	15	12	2.55	4	0.03	10	0.3	308	1	0.01	9	390	12	3	1	18	9	0.05	3	47.4	1	131	25	1
L-4S7.50W	0.1	1.26	18	99	0.1	1	0.4	0.1	8	18	15	2.66	3	0.05	7	0.5	605	1	0.02	10	490	14	3	1	29	10	0.07	3	52.5	1	64	30	3
L-4S7.75W	0.1	1.77	29	155	0.1	1	0.5	0.1	10	26	29	3.61	3	0.07	9	0.6	778	1	0.02	14	570	16	4	1	39	14	0.06	5	66.1	1	95	65	3
L-4S8.00W	0.1	1.56	25	139	0.1	1	0.4	0.1	8	23	26	3.23	3	0.06	8	0.5	594	1	0.02	12	540	13	3	1	37	12	0.06	4	62	1	74	55	3
L-4S8.25W	0.1	1.43	25	130	0.1	1	0.6	0.1	9	18	19	2.96	3	0.06	8	0.4	765	1	0.02	11	740	11	3	1	41	11	0.06	4	58.2	1	85	35	14
L-4S8.50W	0.1	0.93	16	77	0.1	1	0.3	0.1	6	13	4	2.11	3	0.03	7	0.3	294	1	0.01	6	360	14	1	1	26	8	0.06	3	43.5	1	84	15	2
L-4S8.75W	0.1	2	21	157	0.1	1	0.6	0.1	6	20	15	2.86	4	0.05	16	0.5	452	1	0.02	12	420	14	3	1	52	11	0.04	3	51.2	1	110	25	3
L-4S9.00W	0.1	1.61	37	129	0.1	1	0.3	0.1	7	16	8	3.25	4	0.05	10	0.3	421	1	0.01	10	1760	29	4	1	27	12	0.04	4	57.9	1	171	10	4
L-4S9.25W	0.1	1.88	22	142	0.1	1	0.2	0.1	6	17	8	3.06	4	0.05	11	0.4	242	1	0.01	12	800	11	3	1	20	11	0.04	4	54.6	1	128	15	2
L-4S9.50W	0.1	1.12	11	70	0.1	1	0.2	0.1	4	11	6	1.93	3	0.04	6	0.2	256	1	0.01	5	630	9	2	1	13	8	0.04	2	37.7	1	70	5	3
L-4S9.75W	0.1	1.84	18	91	0.1	1	0.2	0.1	5	16	6	2.68	4	0.05	11	0.3	203	1	0.01	10	590	12	2	1	20	11	0.06	3	48.9	1	132	20	3
L-4S10.00W	0.1	1.73	31	102	0.1	1	0.2	0.1	7	17	5	3.49	5	0.04	11	0.3	273	1	0.01	11	650	14	3	1	21	14	0.07	4	66.1	1	127	15	2

Silts	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	Th	Ti	U	V	W	Zn	Hg	Au
	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	ppb
93412	0.1	0.94	24	70	0.1	1	0.4	0.1	10	15	17	3.19	2	0.03	6	0.6	843	1	0.02	11	550	15	2	1	22	12	0.05	4	56.7	1	70	40	1
93413	0.1	1.02	18	62	0.1	1	0.2	0.1	8	15	59	2.49	2	0.03	6	0.5	593	1	0.01	9	430	24	2	1	15	9	0.05	3	48.3	1	63	30	1
93414	1	0.9	8	71	0.1	1	0.3	0.1	8	22	7	3.38	3	0.03	8	0.5	502	1	0.02	15	650	7	2	1	26	18	0.04	4	64.1	1	65	30	1



LEGEND

- O15 Silt sample location & No.
- H.M.
- Airborne geophysical conductor
- 1980 control grid outline
- Turam anomaly
- Swamp
- Lake
- Creek
- Road
- Claim post
- Dip & strike
- Outcrop
- Contact
- Interpreted contact

BUCK CREEK VOLCANICS

- 5 Fresh, fine grained brownish weathering green andesite
- 4 Grabbro stock

HAZELTON GROUP

- 3 Mainly coarse pyroclastic rocks
- 2 Primarily altered andesite & ductile flows
- 1 Mainly maroon pyroclastics & andesites

SCALE 1 : 10000 METRIC

0 100 200 300 400 500 METRES

LEGEND

23531 X - Rock Sample No. (X) FLOAT

1W⊕ - Soil Sample No.

● - SILT SAMPLE NO.

3,9 - Au ppb, Cu ppm

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,485

Electrum Resource Corporation

PIMPERNEL CLAIM

GEOCHEMICAL ROCK, SOIL SAMPLE LOCATIONS

NTS 93L/3E Omineca M.D.

scale 1:10,000

Feb.'98 Fig. 4