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ACTION:	
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**PRELIMINARY GEOLOGICAL INVESTIGATION
of the SHEAR claims,
92H/15E**

**NICOLA MINING DIVISION
B.C.**

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,834

Prepared for :

**AMEX EXPLORATION SERVICES LTD
KAMLOOPS, B.C.
Box 286, V2C 5K6**

Prepared by :

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January 7th 1991

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Certificate

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1 - Land title, physiography and access.

The **Shear** property consists of eleven legal claims as follow (Figure 2):

Names of claim	No of unit	Record number	Expiry date
Shear 1	18	2275	Oct 22, 1990
Shear 2	20	2276	Nov 1, 1990
Shear 3	1	2333	Feb 24, 1991
Shear 4	1	2334	Feb 24, 1991
Shear 5	1	2335	Feb 24, 1991
Shear 6	1	2336	Feb 24, 1991
Shear 7	1	2337	Feb 24, 1991
Shear 8	1	2338	Feb 24, 1991
Shear 9	1	2339	Feb 24, 1991
Shear 10	1	2340	Feb 24, 1991
Shear 11	Fraction	2341	Feb 24, 1991

The **Shear** claims are located near Aspen Grove on the southern part of the Thompson Plateau (Figure1); the area is characterized by gently rolling hills, covered with dense pine and fur trees, wide open meadows and farm land.

They are crossed from north to south by highway *5 from Merritt to Princeton; in the southern portion of **Shear 1** claim the property is cut by the new four lanes highway joining highway *5 near Aspen Grove to Peachland, on Okanagan Lake. Access to any point of the claims is therefore, excellent.

2 - Previous and present work.

The area of Aspen Grove has a long history of mineral prospecting and discoveries, as evidence by the remains of trenches, pits and shafts. In the immediate vicinity of the **Shear** claims, two major prospects have been the site of recent exploration drilling, that is the Big Kid to the Southeast and Blue Jay to the Northeast, both for copper in a porphyry setting.

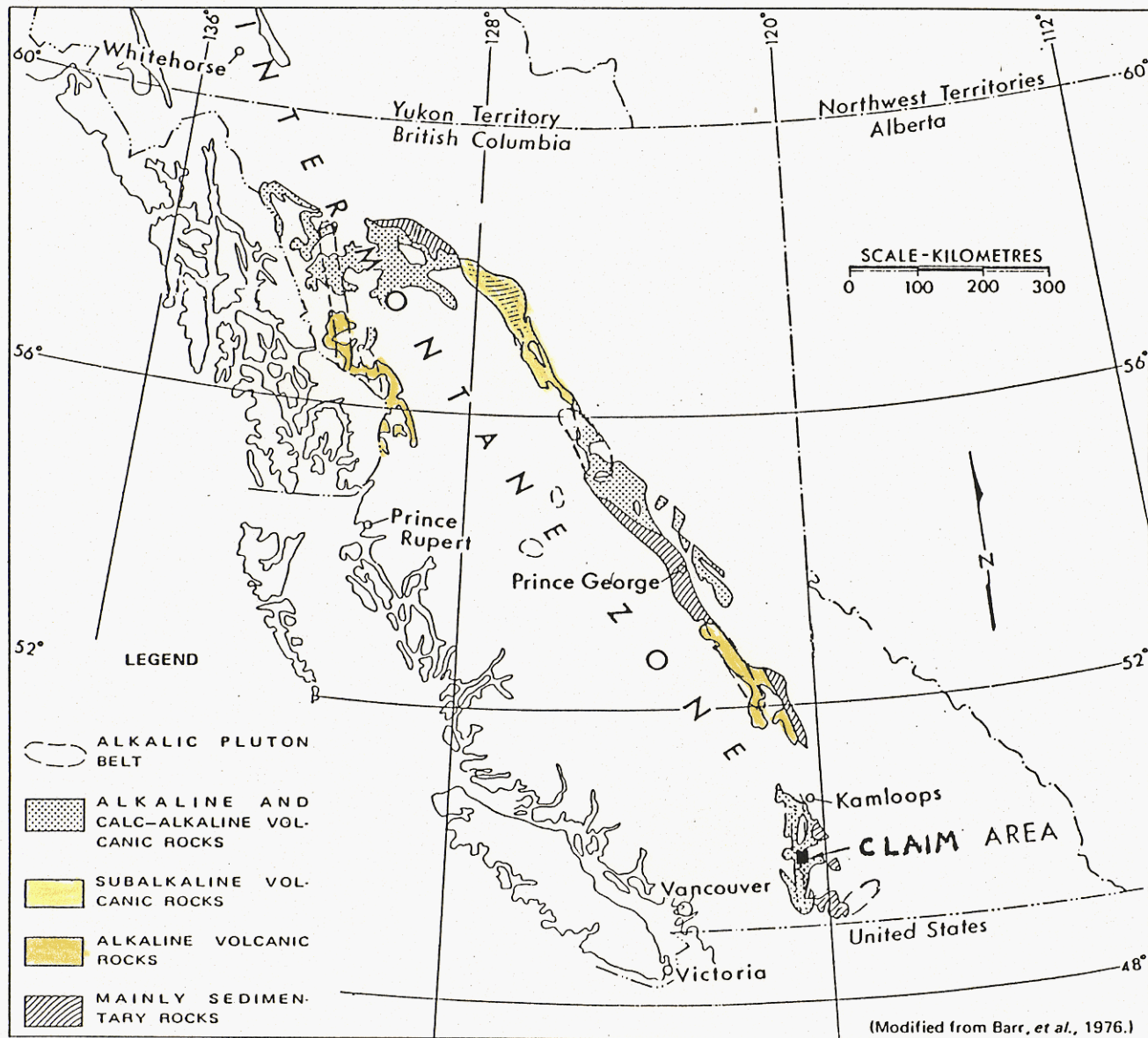
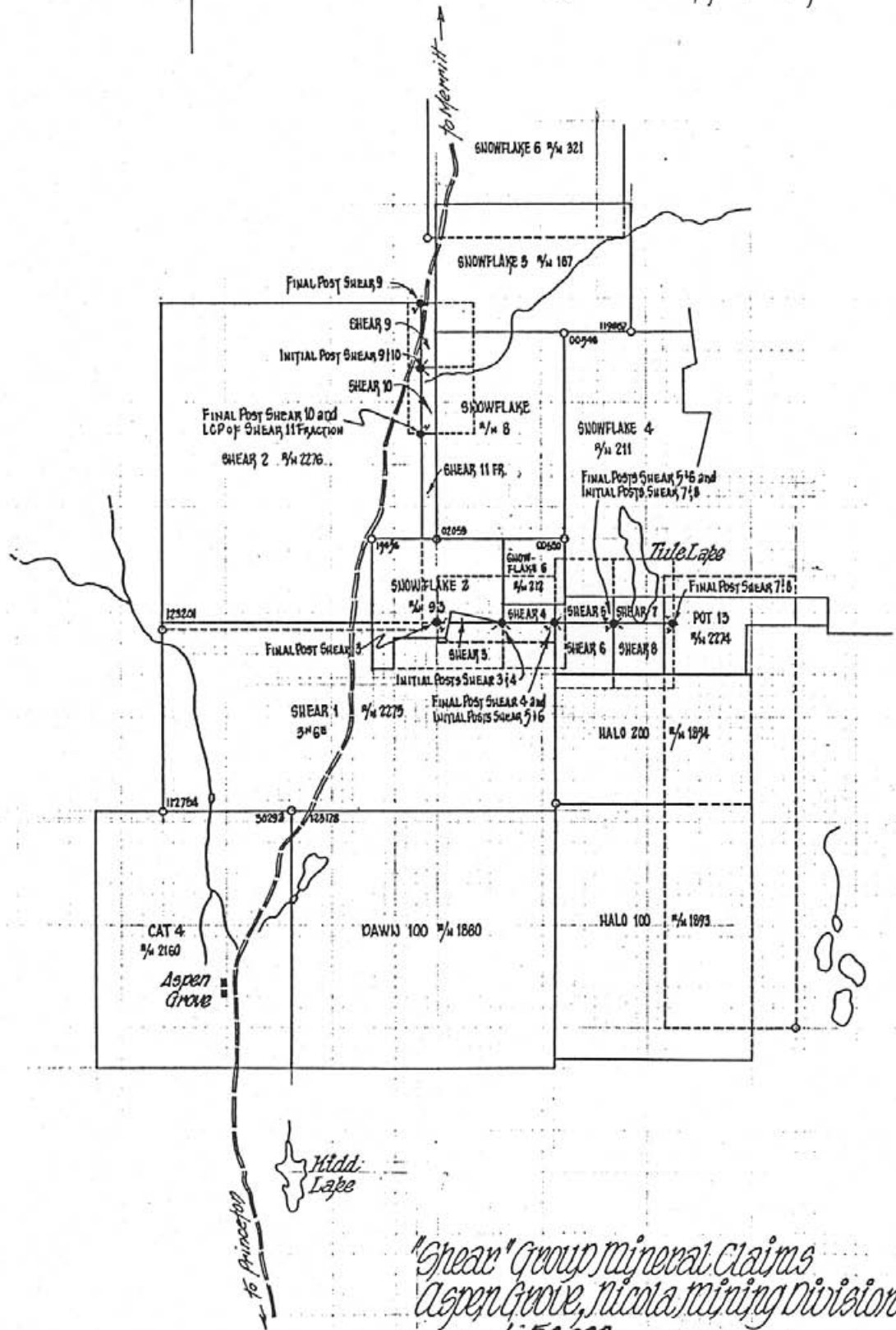


Figure 1 - Location map of the SHEAR claims in relation to Upper Triassic and Lower Jurassic volcanic rocks and associated alkalic plutons in the Intramontane Zone.

Figure 2

Mineral Titles Reference Map



"Shear" Group Mineral Claims
Aspen Grove, Nicola Mining Division
1:50,000
Scale #31680
Map 92H/15E

The **Shear** claims have been staked to cover a newly discovered occurrence along a road cut on northern edge of the new highway; preliminary analysis revealed the presence of extensive Copper, Gold and Silver mineralization. The claims also cover the old showings of Big Sioux, Giant and Maggie shown on Preto's map (Preto, 1979).

3 - **Geological setting.** (after Preto, 1979)

The **Shear** claims lies entirely within the central part of the Nicola Belt of South-Central British Columbia, limited to the East and West by two major vertical north trending break, respectively the Alleyne Fault and the Allison Fault.

This central part is composed of Nicola Group alkaline and calkalkaline volcanic and intrusive rocks of Upper Triassic age. Both subaerial and submarine assemblages occur in the central belt and is interpreted as a volcanic insular belt.

East of Alleyne Fault, more upper Triassic Nicola Group formation are exposed except it consists of westerly dipping, well-bedded succession of volcanoclastic sediments and laharic breccia. This belt is intruded by late Jurassic granodioritic Pennask batholith.

To the west, the hills are underlain by formations of the Kingsvale Group, a largely subaerial succession of flows, ash flows, tufs and lahars.

4 - **Geological investigation .**

Field work includes detailed examination, mapping and sampling of the recently discovered mineralization and host-rocks along the newly opened road-cut, and of the old showings and geology in the surrounding area. Field observations have been supported by study of rock-type in thin sections (Appendix 1).

4.1 - The Road Cut -

1) Mineral occurrences. - Discovery of new mineralization was made after examination of outcrops generated of the new four lane highway connecting highway *5 near Aspen Grove, to Okanagan Lake. Greenish epidotized rock exposures were observed, rocks which contain much pyrite, chalcopyrite, bornite and in place were heavily brecciated.

The first prospection of the 300 meter long road cut led to detailed chip sampling of the rock face, for purpose of litho geochemistry. Fist-sized pieces of rock were picked with a hammer in a continuous manner, carrefully avoiding heavily mineralized chips. Fifteen composite samples were sent for analysis by ICP to Eco-Tech Lab of Kamloops, this work was done by Mr Dave Miller a consulting geologist of Kamloops (Figure 3).

Assay results from this sampling returned extremely high values in Copper, from 138 to 4213 ppm accompanied by anomalous values in Gold (10 to 635 ppb). (see figure 3).

A duplicate chip sample between marks 150 and 160 meters returned 3.27%Cu, 14.45g/T Au and 34.1g/T Ag while a selected grab sample collected at 150m yielded 4.12%Cu, 9.88 g/T Au, and 19.7g/T Ag. An other sample taken from a heavily brecciated, sulfide rich zone near road bed and analyzed by Loring Lab of Calgary, also taken at the 150m mark, gave 5.82% Cu with 42.16g/T Au (1.24 oz/T).

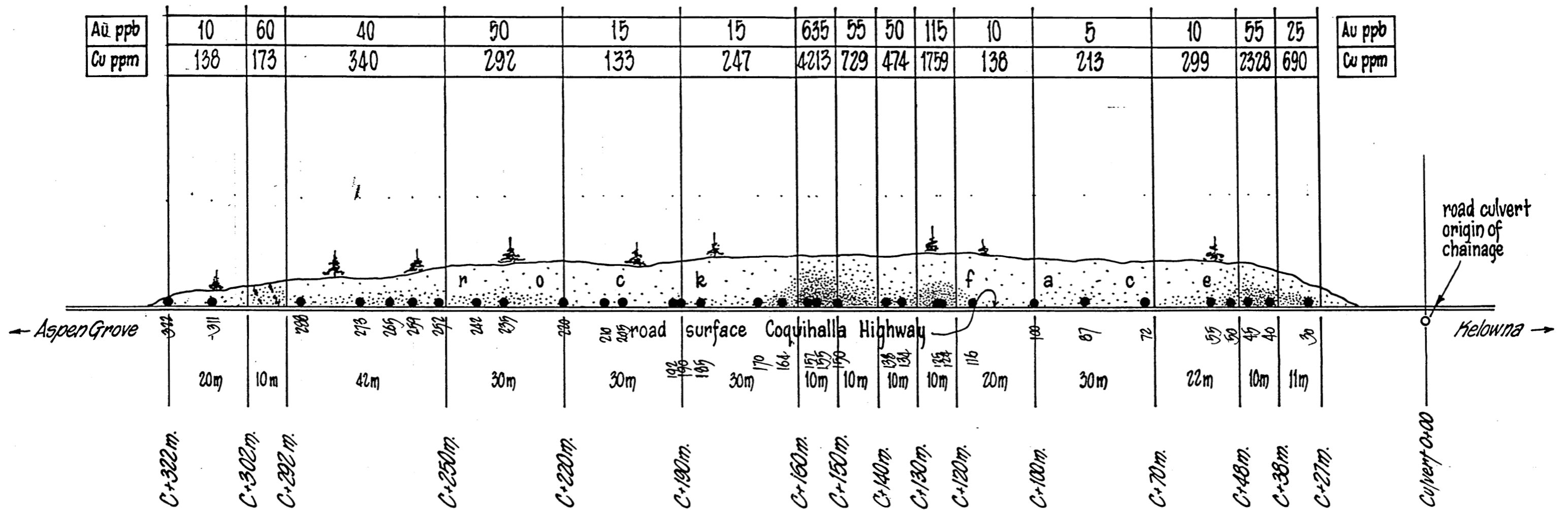
2) Geological description. - Distance calculated Westward from Culvert (Figure 3), in meters and from-to:

C + 23m: low lying outcrop of light grey volcanic rock with anastomosing veining of epidote, turning the rock into a breccia.

C + 85m: beginning of the road-cut with a 10 to 20 meters rock face. Grey-green aphanitic rock speckled with small black amphibole crystals and segregation of magnetite; heavily epidotized.

At 100 meter= slashed with tension gashes with calcite and hematite next to fault zone N 20° E 60° W.

**Figure 3 -
Sketch of the rock face
exposed along the Coquihalla
Highway near Aspen Grove, B.C.**



Select Rock Samples assayed from Highway Cut:

C+120m	Au 0.034 oz.	Ag 5.2 ppm	Cu 1.18%
C+125m	Au 420 ppb	Ag 0.8 ppm	Cu 480 ppm
C+145m	Au 1.24 oz.	Ag 1.72 oz.	Cu 5.82%
C+150m	Au 0.288 oz.	Ag 19.7 ppm	Cu 4.12%
C+155m	Au 0.421 oz.	Ag 34.1 g/t	Cu 3.27%

Rock face sampled by David Miller, P.Eng., Dec. 5, 1989 at intervals as shown above, with Cu, Au noted (30 element ICP, ECO-TECH, Jan. 5/90).

*Shear Group mineral claims, Aspen Grove, B.C.
Nicola Mining Division
map 92H/15E*

From 100 to 110 m= abundant large amphibole crystals.

At 110 meter= 2 meter fault gouge N 0°E, vertical filled with sheared and brecciated country rock injected with calcitic material.

At 150 meter= Vein up to 10 cm wide of calcite, pyrite and chalcopryrite running N 86°E and vertical, splaying off upward and laterally into a breccia zone 6 meters wide.

- C + 172m: grey feldspar phyric volcanic rock, poor in mafic minerals with a sheared eastern contact very rich in pyrite (up to 25%) often in thin bands.
- C + 178m: light-grey aphanitic volcanic rock, rich in pyrite .
- C + 210m: same as above but rich in chalcopryrite and large (3x1 cm) segregation of magnetite and many veinlets of pyrite - epidote.
- C + 245m: grey microdiorite with its eastern contact at N 20°E 25°E; could be the more crystalline part of a flow unit or a cogenetic dike.
- C + 255m: grey aphanitic volcanic rock.
At 266 meter= fault gouge zone due to 2 intersecting faults N 122°E 50° W and N 10°E 45°E, filled with calcite and hematite; many epidote veining.
At 280 meter, repeat of fault gouge.
- C + 280m: volcanic rock with abundant large amphibole flakes.
- C + 290m: coarse-grained dioritic rock with many epidote veining but much less pyrite.
- C + 310m: end of road-cut.

4.2 Old workings.- Visible remnants of past exploration activities consist of a 3x3 m squared and cribbed vertical shaft, a series of pits, extensive stripping and a long double trench. The workings are located on the northern side of the new four-lane highway (figure 4). They were dug to evaluate widely scattered showings of Copper staining, mainly malachite, along hair-line fractures in greenish aphanitic volcanic rocks.

The rock type in all this area, is fairly consistent; The only noticeable evolution is toward the north from Trenches 2 and 3 where large augite crystals and well defined plagioclase phenocrysts appear in the volcanic matrix; also, strewn on the ground, rubbles of pyroclastic rocks and lahar type rock are encountered.

Description of the different showings are given here under. They indicate the widespread nature of Copper mineralization over the claim area.

1 - Shaft: 3 x 3 m opening, vertical, water-filled. On dump around it, green aphanitic andesite with many Cu stains. When broken, rock show abundant disseminated pyrite and chalcopyrite, also with many thin veinlets of calcite. The shaft corresponds to a showing referred to as the Big Sioux where hand cobbled mineralization has been extracted to the amount of 41 tons grading 12% Cu, 68 g/T Ag and 0.57 g/T Au (Preto, 1979).

2 - Trench 1: a small digging 5 x 2 m and 1 meter deep. This is the old Maggie showing (Preto, 1979), in an aphanitic andesite with numerous malachite stains along fractures.

3 - Trenches 2 and 3: 40 meters long, 3 meters wide and 2 to 3 meters deep, separated by a 1 meter thick wall, and running N100°E. Massive grey andesitic rock to the east, rocks evolved into more feldspar phyric andesite to the west, weakly magnetic. Cu stains and calcite veining at N070°E 70°W with blobs of calcite, are apparent. A shear zone N 170°E and vertical is observed at the eastern end of Trench 3.

4 - Trench 4: sloughed in pit, 3 x 10 m long.

5 - Trench 5: 3 x 5 meters and 2.5 meter deep pit in broken-up aphanitic volcanic rock. Many hairline fractures are lined with malachite. In tailings, pieces of heavily Cu stained brecciated rocks can be found, with pyrite and chalcopyrite in the matrix.

6 - Trench 6: a 3 x 3 m pit, 2 m deep of similar broken-up rock.

7 - Stripping n° 1: parallel to Trench 2 and 3, it is 50 m long by 5 m wide.

Rubbles of heavily brecciated felsitic rock are found, and is invaded by ankerite; also there are many breccia pieces coated with Fe-Mn oxides and extensive Cu staining.

Many other stains are found in intermediate areas. The area with widespread copper indication covers a surface of 600 x 350 meters.

5 - Conclusions.

The southern and eastern portions of **Shear Claim 1** is underlain by intermediate volcanic rocks. The volcanic and intrusive rocks are relatively fresh, and un-metamorphosed. They have been folded, however not to the point to generate foliation or crenulation; the rock formation display abundant brittle deformation indicated by many fault gouges seen in outcrops.

The area is richly endowed with Copper showings which have been prospected in the past by means of surface trenches, pits and shaft. However, it has been recently discovered that at deeper levels, the volcanic rocks are brecciated and faulted, contain abundant pyrite and chalcopyrite with economical amount of gold and silver, especially where strong brecciation occur.

Visible alteration in mineralized zones consists of epidote, quartz and secondary calcite; it could represent the upper level of a larger hydrothermal halo. The system is considered of mesothermal affinity by its alteration pattern and mineralogical association made of pyrite, chalcopyrite (bornite), magnetite, hematite, gold and silver. No As or Sb are reported in chemical analysis. It is suggested that the mineralized hydrothermal system be investigated by deep exploration methods.

Therefore a two-phase program is strongly recommended.

6- Recommendations for a follow-up programme

Phase 1

Detailed geological mapping of Shear 1 claim and prospecting on rest of property.....	\$ 15,000
including additional staking.....	\$ 5,000
geochemical sampling along existing grid.....	\$ 25,000
ground geophysics including= IP -Resistivity, VLF - Magnetism.....	\$ 15,000
Logistics, Reporting and Sundries.....	\$ 10,000

Cost of phase 1.....	\$ 70,000

Phase 2

Drilling (2000 meters), logging all inclusive.....	\$ 230,000

Total cost of programme.....	\$ 300,000

7- References

- Barr, D.A., Fox, P.E., Northcote, K.E. and Preto, V.A. - 1976 - The alkaline suite porphyry deposits - A summary; CIM Spec. Vol. 15, Porphyry Deposits of the Canadian Cordillera, p.359-367.
- Christopher, P.A. - 1972 - Preliminary geological map of the Aspen Grove area, B.C.; B.C. Dept of Mines and Petroleum Resources, Preliminary Map no 10.
- Preto, V.A. - 1979 - Geology of the Nicola Group between Merritt and Princeton; B.C. Ministry of Energy, Mines and Petroleum Resources, Bulletin 69, 90p.
- Rice, H.M.A. - 1947 - Geology and mineral deposits of the Princeton map-area, British Columbia; GSC Memoir 243, 136p.

Statement of expenditures**Geological investigation of mineral showing on SHEAR 1 claims****Consulting fees, 4 days field work & travel time**

4 @ \$400/day	\$ 1,600
Thin section study , 2days	
2 @ \$400/day	\$ 800
Report , 2 days	
2 @ \$400/day	\$ 800
Typing, reproduction,drafting,thin section preparation	\$ 550

Total of expenditures..... \$ 3,750

CERTIFICATE

I, HUGHES P. SALAT, of the City of Calgary, Alberta, certify that:

1/ My present address is 5904, Dalhousie Drive N.W., Calgary, Alberta, T3A 1T1 and my occupation is that of a consulting geologist.

2/ I am a graduate of the Ecole Nationale Supérieure de Géologie Appliquée de Nancy and of Faculty of Earth Sciences, University of Nancy (France) with a degree in Geological Engineering, have obtained an M.Sc. equivalence and completed all credit requirements for a degree of Ph.D. at the University of Southern California in Los Angeles (unwritten thesis due to military recall).

3/ I have been practising continuously my profession of geologist since 1968 in Canada and Europe in mineral exploration, first with Aquitaine Company of Canada then with SNEAP (Elf-Aquitaine).

Concomitantly, from 1983 to 1987, I have also worked for the latter, as petroleum geologist on international projects dealing with Central Africa, Indonesia and South America.

Since 1988, I operate as an independant consultant in mineral and oil-gas exploration from the above-mentionned address.

4/ I am a member of the Association of Professional Engineers, Geologists and Geophysicists of the Province of Alberta, of the Geological Association of Canada and of the Canadian Institute of Mining and Metallurgy.

January 7th, 1991



Hughes P. Salat
Consulting Geologist.

APPENDIX I

THIN SECTION STUDY

THIN SECTION STUDY

C + 120, non-mineralized

hand-specimen: medium grey, aphanitic groundmass with scattered large needles of amphibole and square porphyritic feldspar.

thin section:

1/texture: fluidal-trachytic groundmass; porphyritic.

2/composition:

-groundmass is devitrified glass w/ laths of feldspar, hornblend and irresolvable material.

-hornblend phyric, $N^{\circ}g^{\circ}c = 20-35^{\circ}$, .250mm up to 6mm size, twinned, less than 5%; the green hornblend are fresh, often poikilitic (feldspar or other smaller hornblend); one large hornblend is slightly bent or cracked;

-a few feldspars, mainly plagioclase (albite to oligoclase), .5 mm, altered, often epidotized or sericitized, about 5%, tendency to lumping (glomeroporphyritic texture);

-fissures : 2 generations, one is thin filled w/ Qtz & chlorite w/ many opaques, often hairline; the opaques tend to concentrate where fractures cut across hornblend or phyric feldspars, opaques equal 10% ca. The second generation is late and consists of a set of 55° conjugate calcite veins, with one direction more open than the other .

Comments: Hornblend trachy-andesite, probably a flow.

C + 120, mineralized.

hand specimen: grey, medium-sized (.5 to 1 mm) feldspars packed in groundmass, cut by numerous veins bordered by nebulous patches of cryptocrystalline material.

thin section:

1/ texture : intersertal

2/ composition :

- plagioclases, packed mush of rectangular crystals, all completely altered; only a few have a porphyritic tendency (2x size) and maybe K-feldspar. Many show albite twinning of plagioclase.
- chlorite: invading space between feldspar crystal mush and appear to have replaced groundmass; many tiny opaques w/ it; chlorite represents 20% ca.
- large vein of quartz, opaque & chlorite; some minor late calcite;
- also late cross-cutting veinlet of calcite, even breaking opaque minerals.

Comments : Trachy-andesite; compactness of crystals could suggest an intrusive origin such as of a cogenetic dioritic sill.

C + 118

hand specimen : cryptocrystalline limestone with wavy banding.

thin section :

1/ texture : microgranular, comminuted

2/ composition :

- 100% calcite
- very thin bands of felt-like quartz and accessory epidote
- large recrystallized poikilitic calcite grains next to these bands.

Comments : calcitic mylonitic gouge.

C + 135

hand specimen : medium grey, aphanitic w/ feldspar crystals floating in groundmass.

thin section :

1/ texture : fluidal to trachytoid, made up of single feldspar fragments (like crystal debris).

2/ composition:

- majority of crystals are .100 to .250 mm of K-feldspar? (very rare albite twinning),25% of section;
- large crystals (5 to 10% of section) are broken, angular feldspars, often zoned, often euhedral, .5 to 1.5 mm in size; one large phenocryst, zoned, show globular clear albite-twinned inclusion in perfect epitaxy w/ zoning & cleavage, indicating that many altered plagioclases in this rock are probably not multiple twinned;
- groundmass (65%) of irresolvable microliths and devitrified glass
- bands, clouds and orbicules of very fine grained silicified matrix, w/ tiny qtz crystals, multitude of tiny opaques, often large patches of chlorite especially where abundant opaques correlated also to abundant brownish irresolvable material of possible clay, calcite & epidote (?).

Comments : Trachy(?) -andesite crystal tuf; no mafic minerals.

C + 176

hand specimen : medium grey F-phyric crystals set in aphanitic groundmass.

thin section :

1/ texture : felty to trachytic,

2/ groundmass :

- tiny laths of K-feldspar and plagioclase not altered or replaced, 75% of section;
- phenocrysts (20 to 25%) of plagioclases replaced by large epidote + calcite or corroded by same. Some are replaced by chlorite + epidote;
- large patches (often surrounding phenocryst) of irresolvable material with internal well defined epidote or large calcite (5%);
- many opaques associated with epidote (3%).

Comments : Trachyte porphyry.

C + 240

hand specimen : light greenish-grey aphanitic groundmass w/ small whitish feldspar crystals and scattered dark green specks.

thin section :

1/ texture : intersertal, devitrified;

2/ composition:

- ghosts of many ill-defined K-feldspars and plagioclases (not very calcic) in regular rectangular laths (80% of section);
- a few (rare) hornblend crystals with borders being altered into irresolvable matter +/- epidote;
- regularly scattered grains of epidote, all neoformed after irresolvable matter, a few microns up to .5 mm large clear crystals beginning to show definite edges (5 to 10% of section);
- opaques (5%), majority along cracks associated w/ clear epidote; along cracks, some silica and irresolvable material w/ chlorite.

Comments : Trachyte.

C + 250

hand specimen : greenish-grey microcrystalline rock with fine-grained gfeldspars and angular darker green specks .

thin section :

1/ texture : equigranular (+/- .5 mm)

2/ composition :

- 50% feldspar, core is altered and all plagioclase (not determinable);
- 2 to 3% interstitial quartz;
- 25% epidote in pseudomorphs of a prior mafic mineral (hornblend?);
- a few apatite grains;
- 10 to 15% opaques;
- cracks & veins of irresolvable matter + epidote, some (rare) chlorite.
- some large clusters of epidotized hornblend (remnants of glomeroporphyritic texture?).

Comments: (Quartz) microdiorite.

C + 308

hand specimen : light whitish to greenish grey, medium grained rock w/ well developed rectangular green amphiboles.

thin section :

1/ texture : equigranular

2/ composition :

- 50 to 60% regular and rectangular plagioclase laths +/- parallel, and packed w/ recrystallized (?) quartz in between; laths are 2 mm(ca.) long and completely altered to sericite;
- 5 to 10% interstitial quartz;
- 15 to 20% green stubby hornblend most completely altered to chlorite or changed into irresolvable matter + epidote;
- 5% opaques;
- 1 small vein of calcite.

Comments : Quartz diorite.

SM - 90 - 01 A

hand specimen : dark greenish grey aphanitic rock w/ irregular green patches or mottles.

thin section :

1/ texture : mainly irresolvable lighter patches separated by anastomosing thin bands of darker material. Within the lighter patches, greener material which could be chlorite. Cryptocrystalline.

2/ composition : it is difficult to determine the nature of minute minerals ; however the groundmass which is more translucent, seems to contain a silicate phase w/ much quartz interspersed with tiny chloritic crystals. Some of the darker material seems to contain many epidote grains.

- cross-cutting veins of quartz with epidote and some chlorite.

Comments : Highly altered volcanic rock.

SM - 90 - 01 B

Comments :

same rock as above (**SM-90-01 A**) with more abundant darker material and opaque/chlorite blobs (up to 5% of part of section);

some veins of calcite;

however part of section shows a more widespread silicification development with better defined chlorite minerals.

SM - 90 - 02

hand specimen : greenish-grey aphanitic rock w/ scattered small rectangular feldspar crystals.

thin section :

1/ texture : intersertal

2/ composition :

- 60 to 70% rectangular stubby feldspas (probably all plagioclases as very altered and only seen w/ some multiple twinning ghosts);
- 5 to 10% shattered remnants of hornblend replaced by oxidized irresolvable material and tiny epidotes;
- 5 to 10% opaques scattered but also lumped where much irresolvable material after hornblend or along cracks;
- the rest is made up of cryptocrystalline irresolvable material.

Comments : Altered andesite.

SM - 90 - 03

hand specimen : medium grey, aphanitic, slightly porphyritic (square feldspars), heavily Cu stained.

thin section :

1/ texture : intersertal, porphyritic;

2/ composition :

- groundmass is made up of 75% K-feldspar and plagioclase microlites and 25% chlorite;

- in large part of section, lobes of invading alteration (weathering?) turning the entire rock into a sericite-epidote mush;

- phenocrysts : a set of smaller mainly plagioclase (20%) in advanced state of alteration, corrosion from groundmass or replacement by chlorite-epidote, and

a set of larger hornblend, often greenish, (80%), most are stubby, rounded and show multiple twinning; cracks are filled w/ chlorite; some stubby sections show corona texture indicating possible augite crystals;

- 5% scattered opaques, a quarter of which are large tetrahedrons w/ tear clivages (chalcopyrite).

Comments : Andesite.

SM - 90 - 04

hand specimen : light grey, medium grained rock.

thin section :

1/ texture : more or less equigranular (from 1x to 5x), showing a tendency to fluidal texture (a preferred orientation) among feldspars;

2/ composition :

- 80 to 85% laths of altered plagioclases, often well zoned, euhedral and with long axis into same direction;

- 10 to 15% green hornblend, highly fractured and shattered, often altered to chlorite;

- 5% opaques.

Comments : Diorite ; cogenetic to the above andesite.

SM - 90 - 05

**hand specimen : greenish grey aphanitic rock cut by a 1 cm thick vein of quartz w/
pyrite & chalcopyrite intermingled between qtz grains and on border of vein.**

Bleaching on both side of vein up to 1 cm into the host rock

thin section :

1/ texture : seriate textured;

2/ composition :

-mainly plagioclase laths of different sizes;

-rare frayed crystals of hornblend.

**3/ variation : invaded by interstitial quartz, but close to Qtz vein, increase in
amount of chlorite and completely chloritized hornblend; several offshoot
of qtz veining in hostrock.**

**4/ quartz vein : interlocking grains (.100 to .500 mm), slightly strained and
many fissures filled w/ opaques.**

Comments : Andesite cut by a mineralized quartz vein.

APPENDIX II

ASSAY RESULTS

ECO-TECH LABORATORIES LTD.

AB ABLETT - ETK90-4A

10041 EAST TRANS CANADA HWY.
KAMLOOPS. B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

PHONE FOR PICK UP

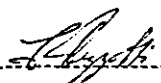
JANUARY 5, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

16 ROCK SAMPLES RECEIVED JANUARY 3, 1990

ETK#	DESCRIPTIONS	AG	AL(Z)	AS	B	BA	BI	CA(Z)	CD	CO	CR	CU	FE(Z)	K(Z)	LA	MG(Z)	MN	MO	NA(Z)	NI	P	PB	SB	SN	SR	TI(Z)	U	V	W	Y	ZN
4 - 2	27-38	.2	2.21	15	<2	50	<5	2.19	1	23	21	690	4.63	.13	<10	1.78	450	2	.08	7	2000	8	5	<20	81	.18	<10	127	<10	7	41
4 - 3	38-48	.4	2.01	20	<2	45	<5	2.25	1	29	83	2328	5.39	.10	<10	1.92	474	5	.07	24	1660	10	5	<20	87	.20	<10	143	<10	6	51
4 - 4	48-70	.2	2.13	15	<2	80	<5	2.49	<1	25	23	299	4.91	.11	<10	1.91	567	4	.07	9	2150	8	5	<20	79	.14	<10	134	<10	6	42
4 - 5	70-100	.2	1.97	15	180	30	<5	3.49	<1	32	62	213	5.08	.15	<10	2.52	787	2	.07	35	1420	6	5	<20	73	.17	<10	141	<10	7	49
4 - 6	100-120	.2	2.23	10	<2	40	<5	3.78	<1	31	59	138	4.85	.16	<10	2.59	782	2	.05	25	1280	10	5	<20	80	.18	<10	123	<10	6	50
4 - 7	120-130	1.0	1.89	10	2	30	<5	3.12	1	72	87	1759	6.02	.09	<10	2.38	693	5	.07	31	1420	12	<5	<20	49	.17	<10	176	<10	7	56
4 - 8	130-140	.2	2.27	15	476	50	<5	2.34	1	51	135	474	5.58	.15	<10	2.68	563	5	.08	46	1400	10	5	<20	49	.24	<10	148	<10	5	50
4 - 9	140-150	.4	2.32	15	10	35	<5	2.52	1	51	45	729	5.12	.20	<10	2.59	608	4	.07	24	1340	22	5	<20	74	.21	<10	117	<10	5	61
4 - 10	150-160	2.2	2.35	20	<2	25	<5	3.58	<1	86	44	4213	6.30	.30	<10	2.61	826	5	.07	30	1460	22	5	<20	73	.20	<10	152	10	5	64
4 - 11	160-190	.2	2.15	15	2	25	<5	3.52	<1	37	44	247	5.17	.16	<10	2.16	710	5	.06	21	1430	10	5	<20	76	.16	<10	124	<10	6	61
4 - 12	190-220	.2	1.87	15	<2	25	<5	1.68	1	32	39	133	5.12	.13	<10	1.90	480	3	.09	21	1590	8	5	<20	77	.21	<10	127	<10	7	54
4 - 13	220-250	.2	1.38	15	<2	20	<5	1.89	1	29	29	292	4.52	.08	<10	1.51	528	4	.08	10	1580	10	5	<20	58	.15	<10	105	<10	7	56
4 - 14	250-292	.2	1.32	10	<2	15	<5	2.76	1	31	16	340	3.98	.12	<10	1.29	624	3	.05	6	1390	12	<5	<20	84	.10	<10	88	<10	8	60
4 - 15	292-302	.2	.62	5	<2	130	<5	4.66	1	17	31	173	3.50	.23	<10	1.91	1354	3	.03	17	880	44	<5	<20	124	.02	<10	46	<10	7	73
4 - 16	302-322	.2	1.16	35	32	80	<5	2.26	<1	20	33	138	4.18	.10	<10	1.18	612	3	.06	10	1590	12	<5	<20	88	.11	<10	113	<10	9	79

NOTE: > = MORE THAN
< = LESS THAN



ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. CERTIFIED ASSAYER

SC90/KAMLOOPS

ECO-TECH LABORATORIES LTD.

AMEX EXPLORATION SERVICE LTD. - ETK 90-81

10041 EAST TRANS CANADA HWY.
 KAMLOOPS, B.C. V2C 2J3
 PHONE - 604-573-5700
 FAX - 604-573-4557

BOX 286
 KAMLOOPS, B.C.
 V2C 5K6

APRIL 20, 1990

ATTENTION: AB ABLETT

VALUES IN PPM UNLESS OTHERWISE REPORTED

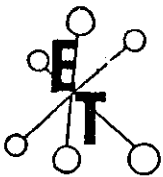
1 ROCK SAMPLE RECEIVED APRIL 19, 1990

ET#	DESCRIPTIONS	AU(ppb)	AG AL(Z)	AS	B	BA	BI CA(Z)	CD	CO	CR	CU FE(Z)	K(Z)	LA MG(Z)	MN	MO NA(Z)	NI	P	PB	SB	SN	SR TI(Z)	U	V	W	Y	ZN				
81	- 1 SHEAR C + 120	>1000	5.2 1.95	25	10	15	<5 .90	<1	262	136	>10000	7.22	.05	<10	2.72	960	56	.03	86	4790	8	<5	<20	26	.07	<10	96	<10	2	110

NOTE: < = LESS THAN

Frank Pezzotti
 ECO-TECH LABORATORIES LTD.
 FRANK PEZZOTTI, A. Sc. T.
 B.C. CERTIFIED ASSAYER

SC90/K1



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

JANUARY 5, 1990

CERTIFICATE OF ANALYSIS ETK 90-4

AMEX EXPLORATION SERVICES LTD.
 BOX 286
 KAMLOOPS, B.C.
 V2C 5K6

ATTENTION: AB ABLETT

SAMPLE IDENTIFICATION: 16 ROCK SAMPLES RECEIVED JANUARY 4, 1989

ET#	DESCRIPTION	Au (ppb)	Au (g/t)	Au (oz/t)	Ag (ppm)	Cu (%)
4 - 1	SHEAR	90	>1000	9.88*	.288	19.7
4 - 2	SHEAR	27	38			4.12%
4 - 3	SHEAR	38	48			
4 - 4	SHEAR	48	70			
4 - 5	SHEAR	70	100			
4 - 6	SHEAR	100	120			
4 - 7	SHEAR	120	130			
4 - 8	SHEAR	130	140			
4 - 9	SHEAR	140	150			
4 - 10	SHEAR	150	160			
4 - 11	SHEAR	160	190			
4 - 12	SHEAR	190	220			
4 - 13	SHEAR	220	250			
4 - 14	SHEAR	250	292			
4 - 15	SHEAR	292	302			
4 - 16	SHEAR	302	322			

NOTE: > = MORE THAN

* SAMPLE SCREENED AND METALLIC ASSAYED

ECO-TECH LABORATORIES LTD.
 JUTTA JEALOUSE
 B.C. CERTIFIED ASSAYER

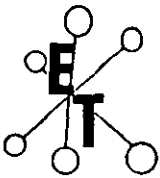
SC89/K1

THIS ASSAY TAKEN FROM CULVERT +150 METERS ON COQUIHALLA ROCK CUT (SEE D. MILLER'S ELEV. PLAN OF DEC. 5/89).

See also assays ET# 20-1 + ET# 20-2

15

$9.88 \text{ g/t} = 0.288 \text{ oz/ton}$



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ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

JANUARY 30, 1990

CERTIFICATE OF ANALYSIS ETK 90-20

AMEX EXPLORATION SERVICES LTD.
BOX 286
KAMLOOPS, B.C.
V2C 5K6

ATTENTION: AB ABLETT

SAMPLE IDENTIFICATION: 2 ROCK SAMPLES RECEIVED JANUARY 25, 1990

ET#	DESCRIPTION	Au (g/t)	Au (oz/t)	Ag (g/t)	Cu (%)
20 - 1	AMEX 90 - S - 2	3.58	.104	7.9	1.32
20 - 2	AMEX 90 - S - 3	14.45*	.421	34.1	3.27

NOTE: * SAMPLE SCREENED & METALLICS ASSAYED

[Signature]
 ECO-TECH LABORATORIES LTD.
 FRANK PEZZOTTI, A. Sc. T.
 B.C. CERTIFIED ASSAYER

SC90/AMEX1

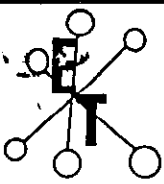
THESE ASSAYS TAKEN FROM
 CULVERT + 155 METERS ON
 COQUIHALLA ROCK CUT (SEE
 D. MILLER'S ELEV. PLAN OF
 DEC. 5/89)

14.45
 4.88
 4.57

See also assay ET# 4-1

13

12
788
137



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

APRIL 20, 1990

CERTIFICATE OF ANALYSIS ETK 90-81A

AMEX EXPLORATION SERVICES LTD.
BOX 286
KAMLOOPS, B.C.
V2C 5K6

A S S A Y S

ATTENTION: AB ABLETT

SAMPLE IDENTIFICATION: 1 ROCK SAMPLE RECEIVED APRIL 19, 1990
===== PROJECT: 88-114

ET#	DESCRIPTION	Au (g/t)	Au (oz/t)	Cu (%)
81 - 1	SHEAR C + 120	1.18	.034	1.18

NOTE: < = LESS THAN

Frank J. Pezzotti
ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI, A.Sc.T.
B.C. CERTIFIED ASSAYER

SC90/AMEX1

To: JORANEX INCORPORATION,
 5904 Dalhousie Drive N.W.,
 Calgary, Alberta
 ATTN: Dominique Salat

File No. 23396
 Date May 31, 1990
 Samples Ore & Rock



Certificate of Assay

LORING LABORATORIES LTD.

Page # 1

SAMPLE NO.	OZ./TON GOLD	OZ./TON SILVER	% CU	% Pb	% Zn
------------	-----------------	-------------------	---------	---------	---------

"Assay Analysis"

Ore Samples

HEAL +150m	{ 1 - Slightly brecciated - " " mineralized	.076	-	.18	-	-
	2 - breccia-ore	1.240	1.72	5.82	-	-

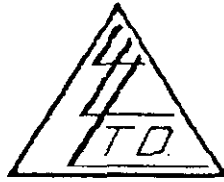
I Hereby Certify that the above results are those
 assays made by me upon the herein described samples....

Subjects retained one month.
 Alps retained one month
 unless specific arrangements
 are made in advance.

 Assayer

To: JORANEX INCORPORATION.
5904 Dalhousie Drive N.W.,
Calgary, Alberta

File No. 33396
Date May 31, 1990
Samples Ore & Rock



Certificate of Assay LORING LABORATORIES LTD.

Page # 2

SAMPLE NO.	PPB Au	PPM Ag	PPM Cu	PPM Pb	PPM Zn
------------	-----------	-----------	-----------	-----------	-----------

Geochemical Analysis

Ore Samples

SHEAR	1	+1000	9.4	+1000	-	-
	2	+1000	+30.0	+1000	-	-

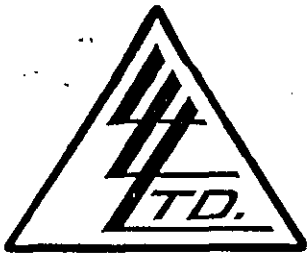
I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
re made in advance.


Assayer

APPENDIX III

ANALYTICAL PROCEDURES



629 Beaverdam Rd. N.E.
Calgary, Alberta T2K 4W2

LORING LABORATORIES LTD.

Phone 274-2777

Preparation Procedures for Geochemical Samples

1 - Soil And Silts:

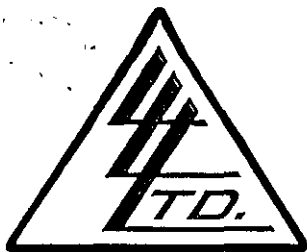
- a) The soil sample bags are placed in dryer to dry at 105°C.
- b) Each sample is passed through an 80 mesh nylon seive. The +80 mesh material is discarded.
- c) The -80 mesh sample is placed into a coin envelope and delivered to the laboratory for analysis.

2 - Lake Sediments:

- a) The sediment sample bags are placed into the dryer at 105°C until dry.
- b) The dried material is transferred to a ring and puck pulverizer and ground to -200 mesh.
- c) The -200 mesh pulp is then rolled for mixing, placed into a coin envelope, and taken to the laboratory for analysis.

3 - Rocks and Cores:

- a) The samples are dried in aluminum disposable pans at 105°C.
- b) They are then crushed to 1/8" in jaw crusher.
- c) the 1/8" material is mixed and split to sample pulp size.
- d) The sample is then pulverized to 100 mesh, using a ring and puck pulverizer.
- e) The -100 mesh material is rolled on rolling mat and transferred to sample bag. The sample is then sent to the laboratory for analysis.



629 Beaverdam Rd. N.E.
Calgary, Alberta T2K 4W2

LORING LABORATORIES LTD.

Phone 274-2777

Au Geochems (Soils & Sediments)

1. Weigh 10 g sample to fire assay crucible (carry blank)
 2. Place crucibles in fire assay furnace at fusion temperature for 15 minutes.
 3. Allow crucibles to cool on steel table.
 4. Add 1 tablespoon flux and 1 in quart to each crucible.
 5. Fuse for $\frac{1}{2}$ hr. at fusion temperature.
 6. Pour pots, remove slag and cupel.
 7. Place beads into 50 ml flasks.
 8. Pipette stds. and blank into 50 ml flasks.
 1 ml of 10 ppm = 1000 ppb
 1 ml of 5 ppm = 500
 1 ml of 1 ppm = 100
 0 ml = 0
 9. Add 5 mls H₂O, 3 mls HNO₃ and place on 1 switch plate for 5 minutes. Take off plate. Add 5 mls HCl.
 10. Digest until total dissolution approximately $\frac{1}{2}$ hr.
 11. Bulk flasks to approximately 25 mls with distilled H₂O. Cool to room temperature.
 12. Add 5 mls MIBK. Stopper and shake each flask for exactly 1 minute.
 13. Allow MIBK to settle.
 14. Set 1100 AA unit as follows:
 mu - 2428
 slit - .5
 lamp MA - 3
 flame - air-acetylene - extremely lean
- Stds. 100 ppb - 10
1000 ppb - 100
500 ppb - reading

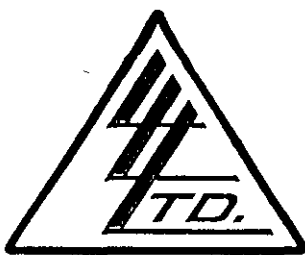
15. Report directly in ppb. Detection limit 5 ppb at reading of .5.

*-1 - for rock geochems steps 2 and 3 can be eliminated.

*-2 - it is important to maintain as closely as possible standard conditions for all samples and standards in a series.

Reagents & Material

- MIBK - 4-Methyl-2-Pentanone
- HCl - conc
- HNO3 - conc
- Flux - 2980 g PbO
777 g Na2CO3
68 g Na2B4O7
68 g SiO2
167 g Flour



629 Beaverdam Rd. N.E.
Calgary 67, Alberta

LORING LABORATORIES LTD.

Phone 274-2777

Geochemical Analysis of Soils, Sediments and Silts.

FOR: Copper, Lead, Zinc, Nickel and Silver, and Cobalt

Sample Preparation:

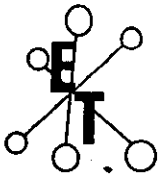
- Samples were placed in dryer overnight at 105°C.
- All samples are sieved through an 80 mesh nylon screen.
- The minus 80 is placed in pre-marked sample bag for analysis. The plus 80 portion is discarded.

Sample Dissolution:

- 1/2 gram samples are weighed and transferred to test tubes.
- One ml water added, then three mls hydrochloric (concentrated), one ml nitric acid (concentrated) are added.
- Test tubes are then placed into hot water bath 100°C and digested for three hours with occasional shaking to ensure complete digestion.
- Test tubes are removed from water bath and allowed to cool.
- Test tubes are bulked to exactly 10 mls, corked and shook.
- All samples are then allowed to settle until clear.
- The clear solutions are then aspirated through the atomic absorption spectrophotometer with appropriate standards to obtain the metal content.

Detection Limits and Precision:

<u>Element</u>	<u>Detection Limit</u>	<u>Precision at 100 ppm level</u>
Copper	1 ppm	+ - 2 ppm
Lead	2 ppm	+ - 4 ppm
Zinc	1 ppm	+ - 2 ppm
Nickel	1 ppm	+ - 2 ppm
Silver	0.2 ppm	+ - 1 ppm
Cobalt	1 ppm	+ - 4 ppm



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4557

I N V O I C E

AMEX EXPLORATION SERVICES LTD.
BOX 286
KAMLOOPS, B.C.
V2C 5K6

DATE: JANUARY 30, 1990

ATTENTION: AB ABLETT

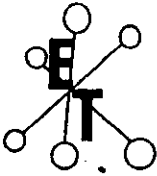
INVOICE #: ETK 90-20

A N A L Y S E S		PRICE/SAMPLE	AMOUNT
2	SAMPLE PREP. (ROCK/CORE)	3.75	7.50
.25	SCREENING PULP TO -140 MESH/kg	5.00	1.25
1	METALLIC GOLD ASSAY	20.00	20.00
2	AG ASSAY	4.00	8.00
2	CU ASSAY	6.50	13.00
TOTAL DUE & PAYABLE UPON RECEIPT:			49.75

TERMS: NET 30 DAYS. INTEREST AT RATE OF 1-1/2% PER MONTH (18% PER ANNUM)
WILL BE CHARGED ON OVERDUE ACCOUNTS.

ASSAYS (#420) FILED WITH
GEOLOGICAL REPORT (SEE
ATTACHED INVOICES)

aid
#420



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

I N V O I C E

=====

AMEX EXPLORATION SERVICES LTD.
BOX 286
KAMLOOPS, B.C.
V2C 5K6

DATE: JANUARY 5, 199

INVOICE #: ETK 90-4

=====		PRICE/SAMPLE	AMOUNT
A N A L Y S E S			
=====			
16	SAMPLE PREP. (ROCK/CORE)	3.50	56.00
15	AU + 30 ELEMENT ICP	13.50	202.50
1	AG GEOCHEM	2.00	2.00
1	CU ASSAY	6.25	6.25
1	AU GEOCHEM	6.75	6.75
1	METALLICS	24.00	24.00

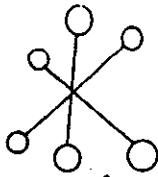
TOTAL DUE & PAYABLE UPON RECEIPT:			297.50

=====

TERMS: NET 30 DAYS. INTEREST AT RATE OF 2% PER MONTH (24% PER ANNUM)
WILL BE CHARGED ON OVERDUE ACCOUNTS.

SHEAR ~~W~~

paid



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

I N V O I C E

=====

DATE: JULY 5, 1990

AMEX EXPLORATION SERVICES LTD.
BOX 286
KAMLOOPS, B.C.
V2C 5K6

INVOICE #: ETK 90-248

ATTENTION: AB ABLETT

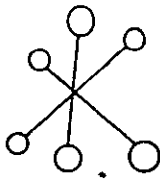
A N A L Y S E S		PRICE/SAMPLE	AMOUNT
=====		=====	=====
2	SAMPLE PREP. (ROCK/CORE)	3.75	7.50
2	AU ASSAY (1/2 assay ton)	8.50	17.00
2	30 ELEMENT ICP	7.00	14.00

TOTAL DUE & PAYABLE UPON RECEIPT:			38.50

=====

TERMS: NET 30 DAYS. INTEREST AT RATE OF 1-1/2% PER MONTH (18% PER ANNUM)
WILL BE CHARGED ON OVERDUE ACCOUNTS.

paid



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

I N V O I C E

DATE: AUGUST 29, 1990

AMEX EXPLORATION SERVICES LTD.
BOX 286
KAMLOOPS, B.C.
V2C 5K6

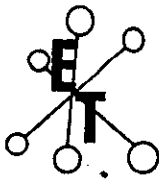
INVOICE #: ETK 90-486

ATTENTION: AB ABLETT

A N A L Y S E S		PRICE/SAMPLE	AMOUNT
1	SAMPLE PREP. (ROCK/CORE)	3.75	3.75
1	AU GEOCHEM	6.75	6.75
1	30 ELEMENT ICP	7.00	7.00
TOTAL DUE & PAYABLE UPON RECEIPT:			17.50

TERMS: NET 30 DAYS. INTEREST AT RATE OF 1-1/2% PER MONTH (18% PER ANNUM)
WILL BE CHARGED ON OVERDUE ACCOUNTS.

paid



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

I N V O I C E

=====

AMEX EXPLORATION SERVICES LTD.
BOX 286
KAMLOOPS, B.C.
V2C 5K6

DATE: NOVEMBER 29, 1989

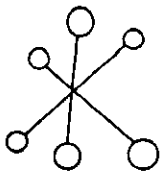
INVOICE #: ETK 89-940

=====			
A N A L Y S E S	PRICE/SAMPLE		AMOUNT
=====			
1	SAMPLE PREP. (ROCK/CORE)	3.50	3.50
1	AU + 30 ELEMENT ICP	13.50	13.50
TOTAL DUE & PAYABLE UPON RECEIPT:			17.00

=====

TERMS: NET 30 DAYS. INTEREST AT RATE OF 2% PER MONTH (24% PER ANNUM)
WILL BE CHARGED ON OVERDUE ACCOUNTS.

paid



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

GEOCHEMICAL LABORATORY METHODS

SAMPLE PREPARATION (STANDARD)

1. **Soil or Sediment:** Samples are dried and then sieved through 80 mesh nylon sieves.
2. **Rock, Core:** Samples dried (if necessary), crushed, riffled to pulp size and pulverized to approximately -140 mesh.
3. **Heavy Mineral Separation:** Samples are screened to -20 mesh, washed and separated in Tetrabromothane.
(SG 2.96)

METHODS OF ANALYSIS

All methods have either certified or in-house standards carried through entire procedure to ensure validity of results.

1. **Multi-Element** Cd, Cr, Co, Cu, Fe (acid soluble),
Pb, Mn, Ni, Ag, Zn, Mo

Digestion

Hot aqua-regia

Finish

Atomic Absorption, background correction applied where appropriate

A) **Multi-Element ICP**

Digestion

Hot aqua-regia

Finish

ICP

2. **Antimony**

Digestion

Hot aqua regia

Finish

Hydride generation - A.A.S.

3. **Arsenic**

Digestion

Hot aqua regia

Finish

Hydride generation - A.A.S.

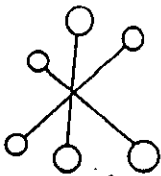
4. **Barium**

Digestion

Lithium Metaborate Fusion

Finish

I.C.P.



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ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

5. Beryllium

Digestion

Hot aqua regia

Finish

Atomic Absorption

6. Bismuth

Digestion

Hot aqua regia

Finish

Atomic Absorption

7. Chromium

Digestion

Sodium Peroxide Fusion

Finish

Atomic Absorption

8. Fluorine

Digestion

Lithium Metaborate Fusion

Finish

Ion Selective Electrode

9. Mercury

Digestion

Hot aqua regia

Finish

Cold vapor generation -
A.A.S.

10. Phosphorus

Digestion

Lithium Metaborate Fusion

Finish

I.C.P. finish

11. Selenium

Digestion

Hot aqua regia

Finish

Hydride generation - A.A.S.

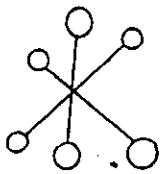
12. Tellurium

Digestion

Hot aqua regia
Potassium Bisulphate Fusion

Finish

Hydride generation - A.A.S.
Colorimetric or I.C.P.



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

13. Tin

Digestion

Ammonium Iodide Fusion

Finish

Hydride generation - A.A.S.

14. Tungsten

Digestion

Potassium Bisulphate Fusion

Finish

Colorimetric or I.C.P.

15. Gold

Digestion

a) Fire Assay Preconcentration
followed by Aqua Regia

Finish

Atomic Absorption

b) 10g sample is roasted at 600°C then digested with hot Aqua Regia. The gold is extracted by MIBK and determined by A.A.

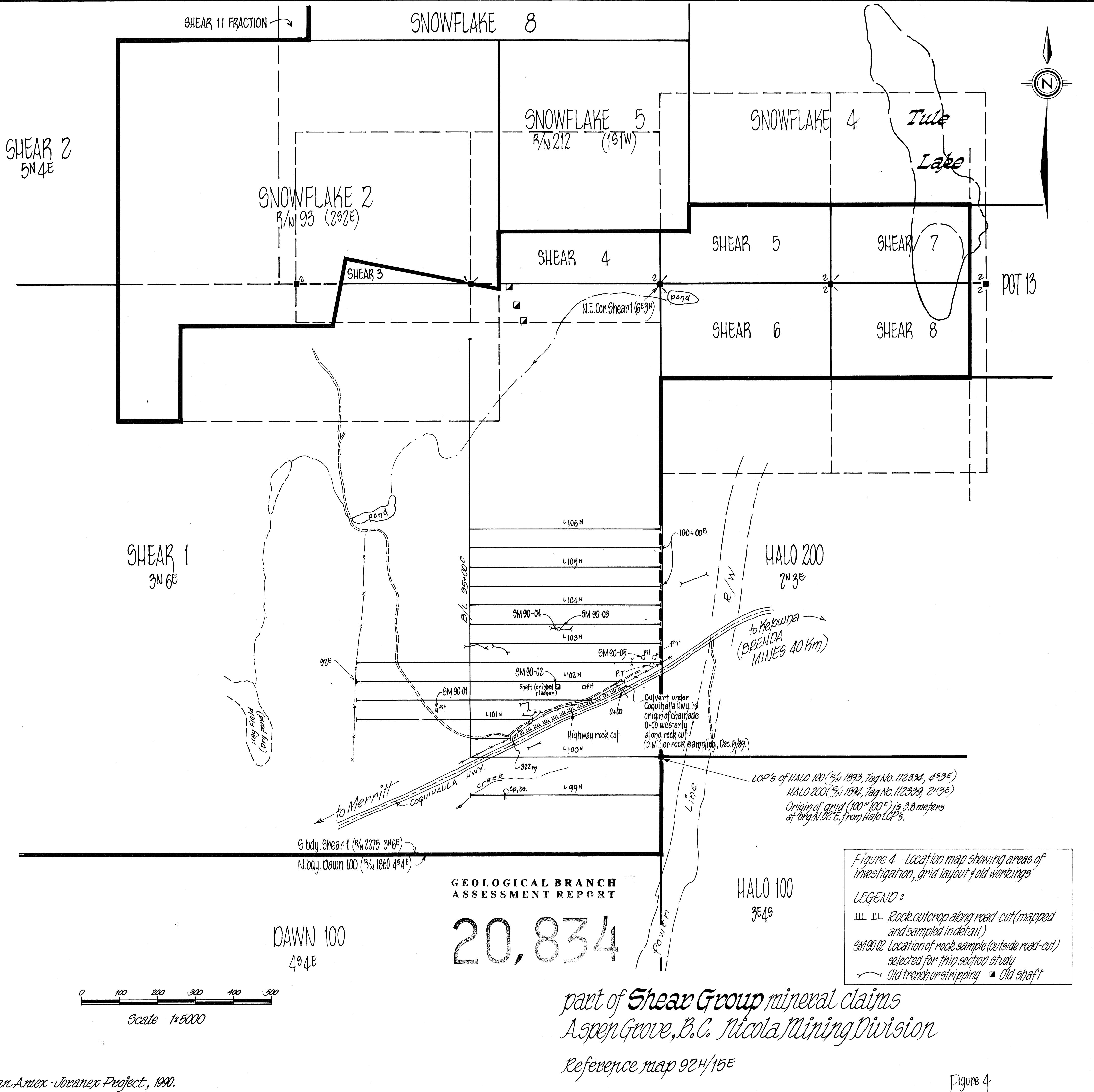
16. Platinum, Palladium, Rhodium

Digestion

Fire Assay Preconcentration
followed by Aqua Regia

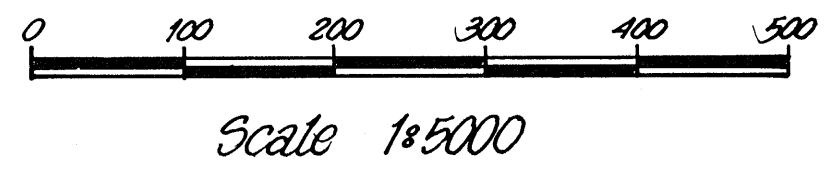
Finish

Graphite Furnace - A.A.S.



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,834



part of *Shear Group* mineral claims
Aspen Grove, B.C. Nicola Mining Division
Reference map 92H/15E