" MESOTHERMAL REPLACEMENT AND VEIN DISCOVERY "

SPANISH CREEK PROPERTIES

Heart, Hobson 1, 2, 3, 4 claims

2001 Geochemical & Physical Work Report

CARIBOO MINING DIVISION

NTS 93 A/11 W

Lat. 52° 36'
Long. 121° 18'

Owners: Sheran Paterson, Merle Matherly
Box 38, Likely, B. C.
V0L 1N0

Report by: Sheran Paterson
September 21, 2001

* REVISED
December 7, 2001 - by Sheran Paterson

TABLE of CONTENTS

	page
1.0 Cover Letter	1
2.0 Regional History	3
3.0 Property History	5
4.0 Location & Access	6
5.0 Physiography & Climate	6
6.0 Claim Status	6
7.0 Regional Geology	9
8.0 Property Geology	13
9.0 Mineralized zone description	13
10.0 GEOCHEMISTRY & related PHYSICAL	16
10.1 Field Procedures	
10.2 Work Programs	
11.0 Results & Interpretation	19
12.0 Conclusions	19
13.0 Recommendations	20
14.0 Statement of Expenditures	21
15.0 Statement of Qualifications	22

LIST of TABLES :

Table 1 - Mineral claim schedule.....

LIST of APPENDICES :

1 - Work Approval permit, number
2 - Rock sample descriptions/ GPS-UTM & Altimeter data
3 - Rock assays
4 - Expense receipts (clm reg., other)
~~5 - Permits~~
~~6 - Prospectors Assistance Program & other~~
~~7 - Statement of Work Reg./ Notice to Group~~
8 - Trench & sample location maps: Map of Grid Work/ Map of Reconnaisance Work
9 - Trench cut: **gold** & **copper** numerical plots; Brew West cut block - MOTHER & M2 zones

LIST of FIGURES :

Fig. 1 - Property Location Map
Fig. 2 - Map of Producers 1:250,000
Fig. 3 - Claims map, NTS 93 A/11 W
Fig. 4a,b,c - Regional Geology after Bloodgood, 1990
Fig. 5 - Local Geology 1:20,000
Fig. 6 - Property Geology 1:5,000
Fig. 7 - Work site locations 1:20,000
Fig. 8 - Trench location map 1:1,500
Fig. 9 - Road deactivation traverse map 1:5,000
Fig. 10 - 300° Grid map 1:2,000
Fig. 11 - I,J,K,L Trenches & sample map 1:500
Fig. 12 - A,B,C,D,G,H Trenches & sample map 1:500
Fig. 13 - MOTHER zone; A,B,C,D,G trench cuts - Au & Cu numerical plots 1:200
Fig. 14 - M2 zone; H trench cut - Au & Cu numerical plots 1:200

1.0 COVER LETTER :

SPANISH CREEK PROPERTIES is a 600 square hectare **GOLD** prospect overlooking Quesnel Lake, located in the Cariboo-Quesnel Gold Belt 110 kilometers northeast from Williams Lake, north-central British Columbia.

Allegations that this district remains favoured for exploration activities are supported by an extensive mining history backdating to 1800's and recent local mining operations. Nowadays, companies actively explore for **gold**, platinum-paladium and base metal deposits; many recent searches aimed at mafic-ultramafic rock assemblages noted for large tonnage high-grade precious and base metal mines.

Project area lies along Quesnelia tectonostratigraphic terrane defined by the Eureka Thrust Fault, at/or near the top of a regional fold. Ultramafic rocks dominate; are mesothermal origin; are affected by post intrusive metamorphic processes, and locally contact seri-clastics and metasediments. Gold, other precious and base metal commodities are related to **iron-carbonate** alteration and **sulphide** mineralization. Hundreds of metres of **quartz-carbonate gold veins** occur along regional trends.

The most common exploration method applied was rock geochemistry; **gold**, and base metals were first targeted in 1981-1983, when early rock samples revealed anomalous assay values. The terrain is faintly blanketed by shallow overburden and abundant outcrop occurs everywhere; surface exploration still takes place to this day.

Discovery Properties currently consist of 5 contiguous claims totalling 24 units, 600ha^2, almost entirely clear-cut from logging; these are generally well accessed by old and new roads.

The region is moderate relief in fairly mountainous terrain where resonable weather for exploration work is expected from end of May to end of October.

The local environment offers plenty of water courses, lakes, is richly forested with evergreen and deciduous tree varieties and is foliated with broadleaf vegetation.

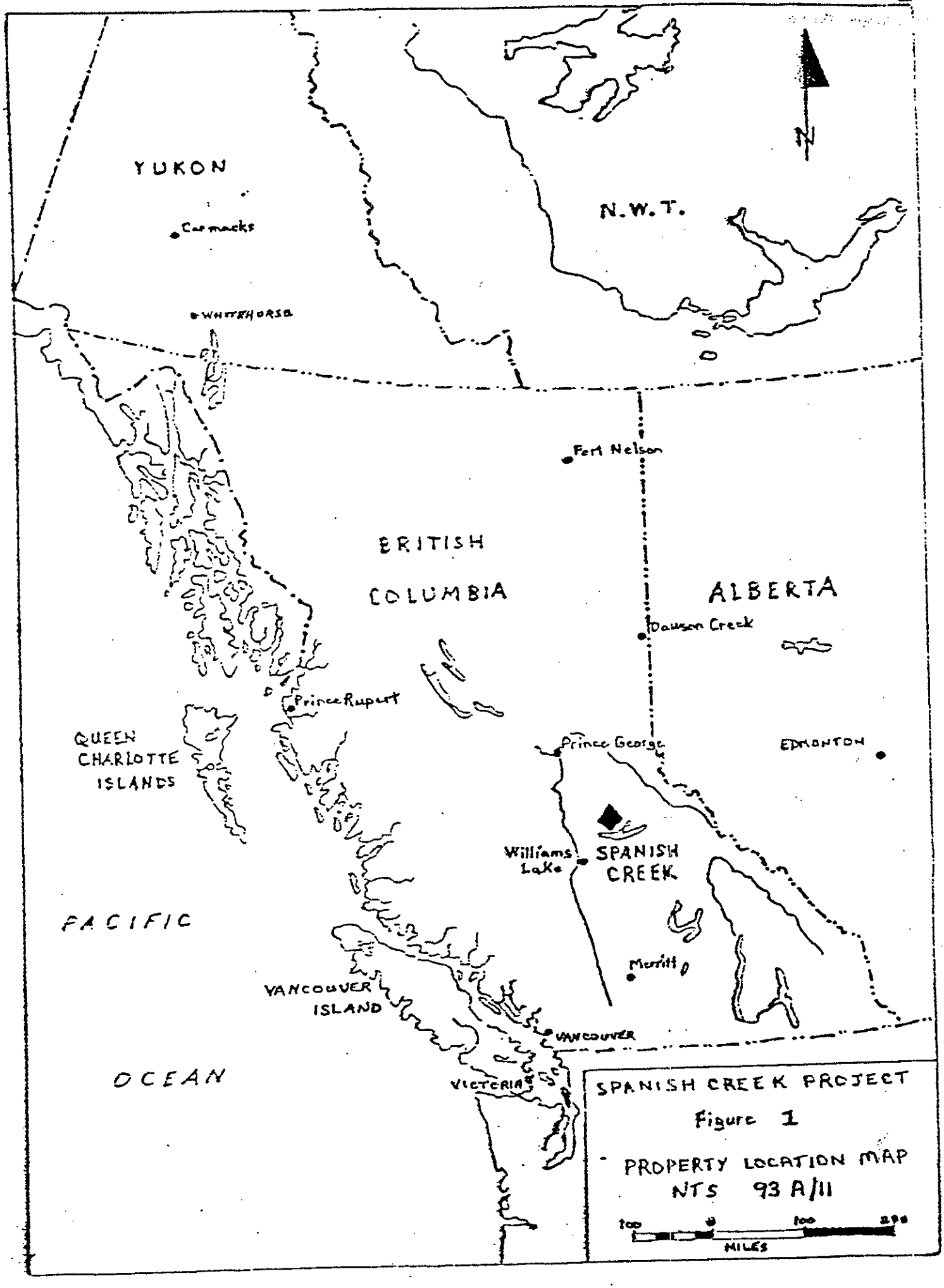
Gold is the primary target; exploration goals are to progressively develop this prospect, a substantial **"Mother Lode"** style discovery to production.

Current focus is HEART claim, Brew West cut block, **MOTHER gold-quartz** shear zone; primarily selected for geologic character, consistent gold values (Assess. 22437, 1992), potential expansion for already significant zone size, much outcrop exposure in shallow overburden, location in cleared and burned log cut and generally good road access.

A preliminary Stage 2 exploration program conducted over MOTHER gold-quartz veins was designed to identify gold curve patterns. A 215 excavator trenched 10 cuts over 450m^2; 249 rock chip samples were collected, and subsequently 63 samples were submitted to ECO-TECH Laboratories, Kamloops, B.C. for analysis.

- Later, an additional 50 samples were submitted to ECO-TECH for analsis.

FIG. 1


YUKON
Carmacks
WHITEHORSE
N.W.T.
N
Fort Nelson
BRITISH
COLUMBIA
ALBERTA
Dawson Creek
Prince Rupert
QUEEN
CHARLOTTE
ISLANDS
Prince George
EDMONTON
Williams
Lake
SPANISH
CREEK
PACIFIC
Merritt
VANCOUVER
ISLAND
VANCOUVER
OCEAN
VICTORIA
SPANISH CREEK PROJECT
Figure 1
PROPERTY LOCATION MAP
NTS 93 A/11
100 0 100 200
MILES

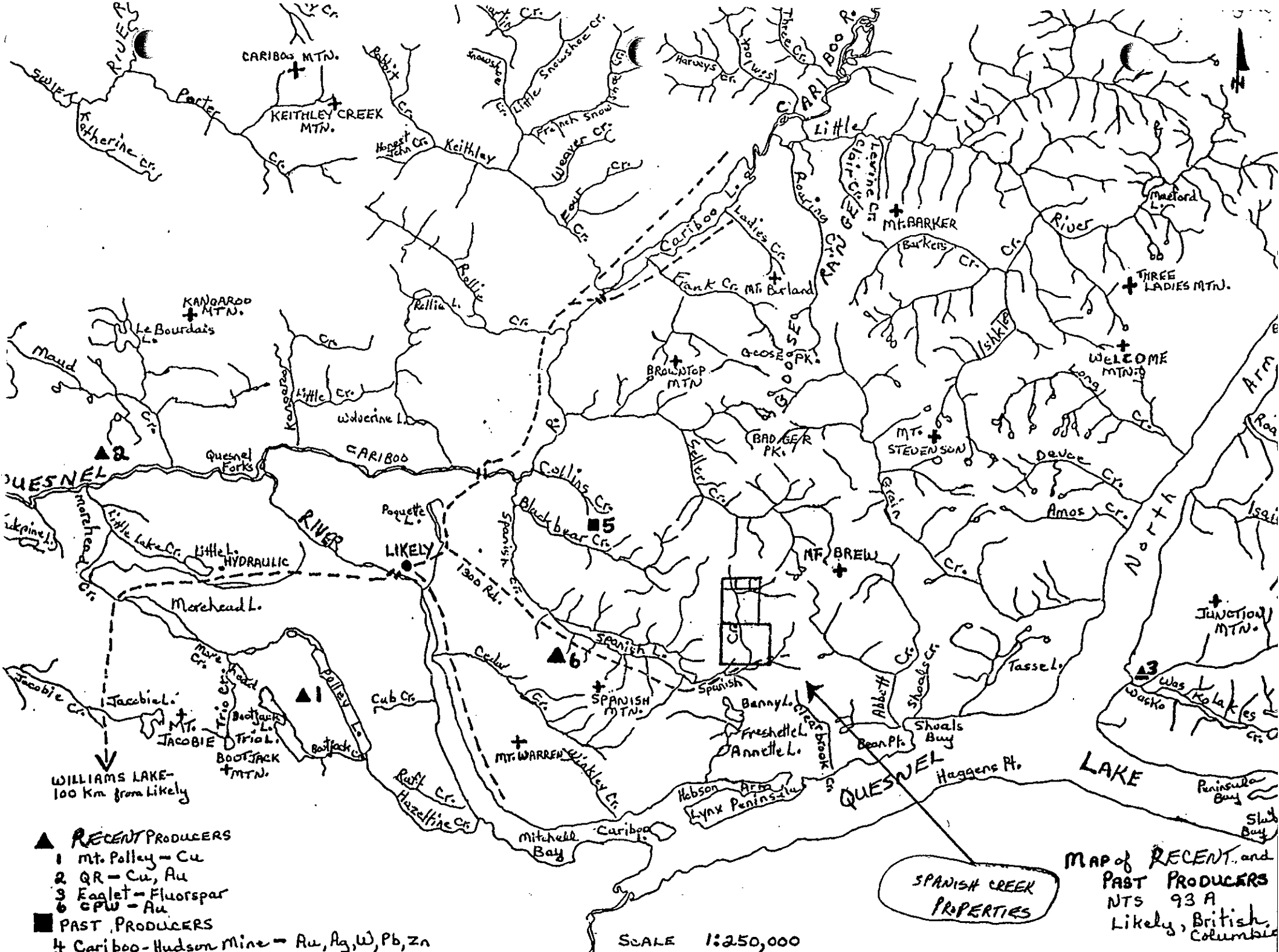
2.0 REGIONAL HISTORY :

The project area has an extensive mining and exploration history, boasting hardrock and placer activity as early as mid 1800's which still continues to this day.

Antiquated local mining sites that once existed: Cariboo Hudson Mine (Au, Ag, W, Pb, Zn)/ Providence, Independence (Ag, Pb)/ Bullion Pit (Au) Cedar Creek (Au)/ Golden Horn (Au)/ Kitchener (Au).

Recent deposits in production or near-production: QR Mine, alkali-porphyry-related gold deposit (Au, Cu)/ FRASERGOLD property, basal-phyllite-hosted gold deposit, Quesnel Trough (Au, Ag, Cu, Zn, Pb)/ CPW property, phyllite-hosted gold deposit (Au, Pb, Zn)/ MT. POLLEY MINE, porphyry copper deposit (Cu, Au).

Another recent deposit is the MIRACLE-MURPHY property which is believed similar to Craigmont copper-iron skarn near Merritt, B. C.



▲ RECENT PRODUCERS
1 mt. Polley – Cu
2 QR – Cu, Au
3 Eaglet – Fluorspar
6 CPW – Au
■ PAST PRODUCERS
4 Cariboo-Hudson Mine – Au, Ag, W, Pb, Zn

MAP of RECENT and PAST PRODUCERS
NTS 93 A
Likely, British Columbia

3.0 PROPERTY HISTORY :

Gold, other precious and base metals have been targeted as early as 1981-1983, when preliminary investigation showed anomalous silver, lead and gold from analyzed rock samples. Wide-spread gold, silver, copper, lead and zinc in-soil anomalies were identified after completion of four plus square kilometers of geochemistry, 1989 survey. Reconnaisance geophysics, self-potential method (1994, 1995), determined sulphide mineralization in underlying bedrock.

Outcrop exposure is abundant and occurs everywhere in a light blanket of overburden. Surface exploration, rock geochemistry is the most common exploration method employed.

The 2001 work program described in this report was conducted during the period between June 27, 2001 to August 16, 2001; the exception being staking and acquiring HOBSON 4 claim, June 7 & 8, in order to fulfill obligations to - British Columbia Prospectors Assistance Program.

4.0 LOCATION & ACCESS :

Spanish Creek Properties is located 110 kilometers from Williams Lake and is in north-central British Columbia (Fig. 1).

Access is provided by paved road to the community of Likely from Williams Lake, and remaining 20 kilometers by the 1300, Spanish Lake forestry road.

These properties are cut by the Upper Spanish Creek drainage system that flows into east Spanish Lake. The claims lie on the east flank of Upper Spanish Creek between Mount Brew and Blackbear Mountains. This area is moderate relief and almost entirely logged providing generally excellent access to and through the properties by old and new roads.

5.0 PHYSIOGRAPHY & CLIMATE :

The properties are situated northwest from the north shore of Quesnel Lake. This region is fairly mountainous terrain of moderate relief with elevations averaging 1200 to 1600 metres; an exception being Mount Brew whose height reaches up to 2000 metres.

The local environment offers many water courses, lakes, and is well forested with fir, pine, spruce, cedar and poplar trees, and foliated with broadleaf vegetation. These properties are almost entirely clear-cut from logging activities.

Reasonable weather conditions for exploration work may be expected from end of May to end of October. Winter snowpack can sometimes reach 3 to 5 metres.

6.0 CLAIM STATUS :

The Spanish Creek Properties currently consist of five contiguous claims, totalling 24 units, 600 square hectares (Fig. 3).

*** NOTE**

HOBSON GROUP:

Hobson 4 - in good standing till 2005
Hobsons 1, 2, 3 - in good standing till 2007
Heart - in good standing till 2008

Table 1 - Mineral Claim Schedule

CLAIM	UNITS	TENURE	YR. STAKED
HEART	9	368325	Mar. 28, 1999
Hobson 1	1	368327	Mar. 28, 1999
Hobson 2	1	368328	Mar. 28, 1999
Hobson 3	1	368329	Mar. 28, 1999
Hobson 4	12	387064	June 11, 2001

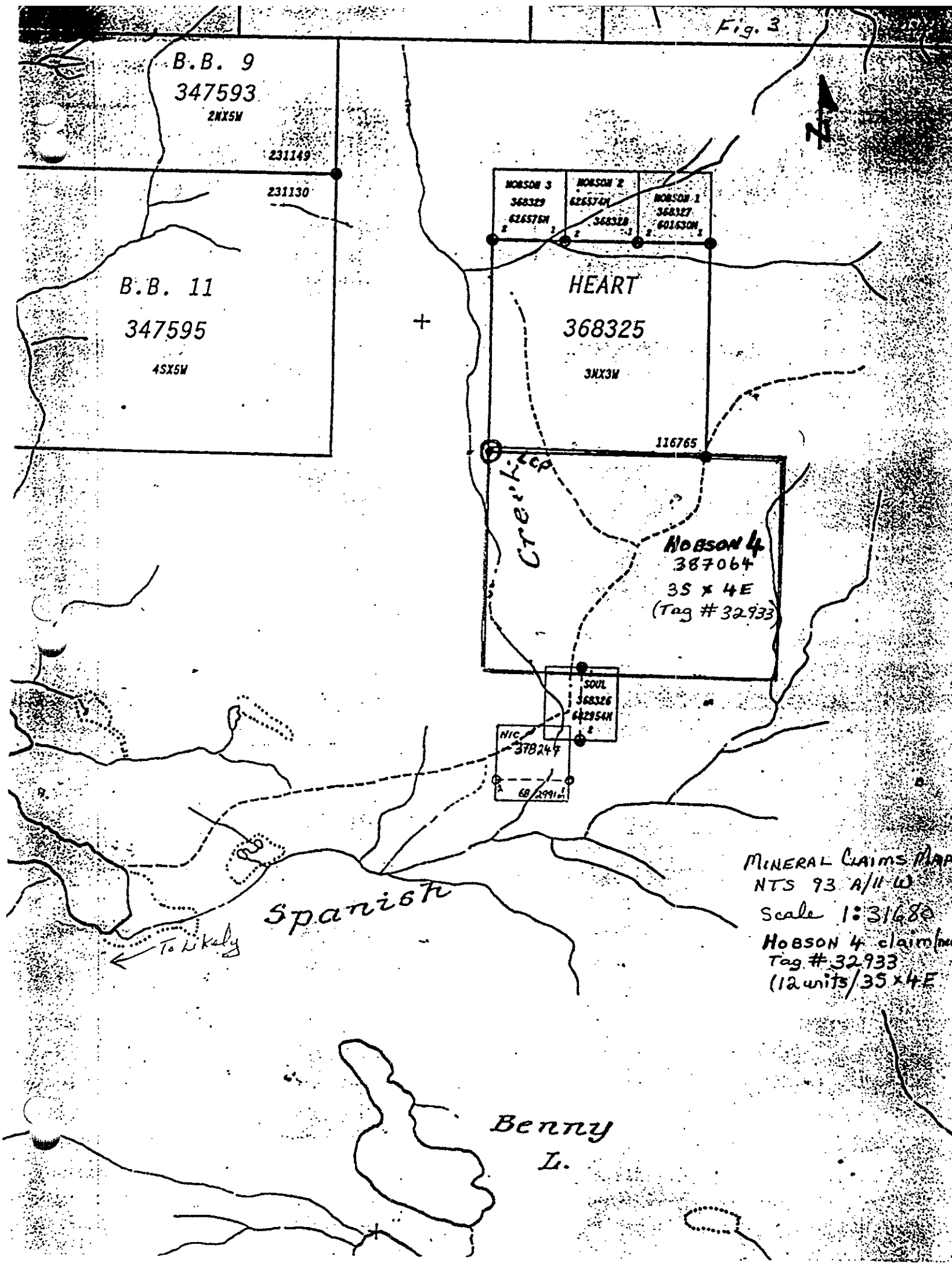


Fig. 3
B.B. 9
347593
2NX5W
231149
231130
B.B. 11
347595
4SX5W
HOBSON 3
368329
HOBSON 2
HOBSON 1
368327
HEART
368325
3NX3W
116765
Creek
HOBSON 4
387064
3S x 4E
(Tag # 32933)
SOUL
NIC
378247
Spanish
To Likely
Benny
L.
MINERAL CLAIMS MAP
NTS 93 A/11 W
Scale 1:31680
HOBSON 4 claim
Tag # 32933
(12 units/3S x 4E

7.0 REGIONAL GEOLOGY :

Spanish Creek Properties is located in the Central Intermontane Belt along Quesnellia tectonostratigraphic terrane. This tectonic boundary defined by the Eureka Thrust Fault, may represent a convergent zone between arc-related Quesnel terrane and Barkerville terrane, Omenica Belt, to the east. The project area is centrally situated within Quesnel terrane, a belt of mostly Upper Triassic - Lower Jurassic basic to intermediate volcanic rock that occurs along the eastern margin of the Intermontane Belt. Quesnel terrane is identified by a Crooked Amphibolite basal unit occurring discontinuously along the terrane boundary, and is probably related to Slide Mtn. terrane exposed further north. The base of Crooked Amphibolite defines the Eureka Thrust which appears hook-like around the NAVER PLUTON (northeast Hixon, B.C.), along which mechanical interbedding of amphibolite with adjacent units is visible anywhere that contacts may be exposed. Overprinting relationships of structural elements (bedding, lineations, cleavage) suggest that two folding deformation events occurred regionally. Three major thrust faults recognized in the area and believed to be simultaneous to the first folding deformation, were later overprinted and deformed by second-phase folding structures. The Eureka Thrust is a low-angle, southwest dipping fault at the base of Quesnel terrane, where Crooked Amphibolite discontinues along the terrane boundary, and when absent the fault is immediately overlaid by Triassic metasediments. A third phase of deformation resulted in a spaced cleavage and fracture set overprinting all earlier fold forms. Many steeply-dippin northeast-trending normal faults post-dating regional folding, have been recognized in volcanic sequences somewhat to the west, and high-angle faults recognized in metasediments could be connected to Phase Three deformation.

FIGURE 4.

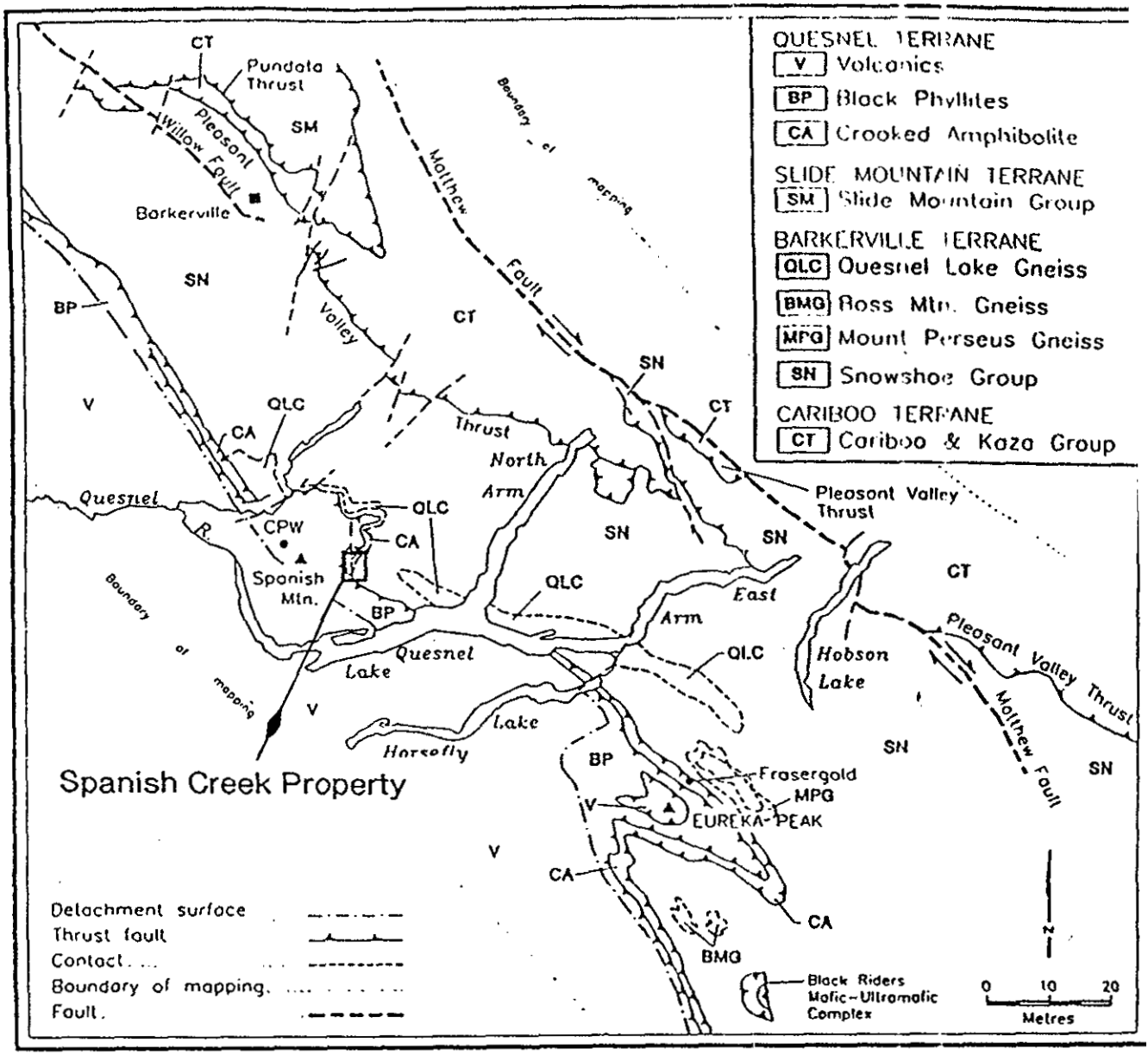
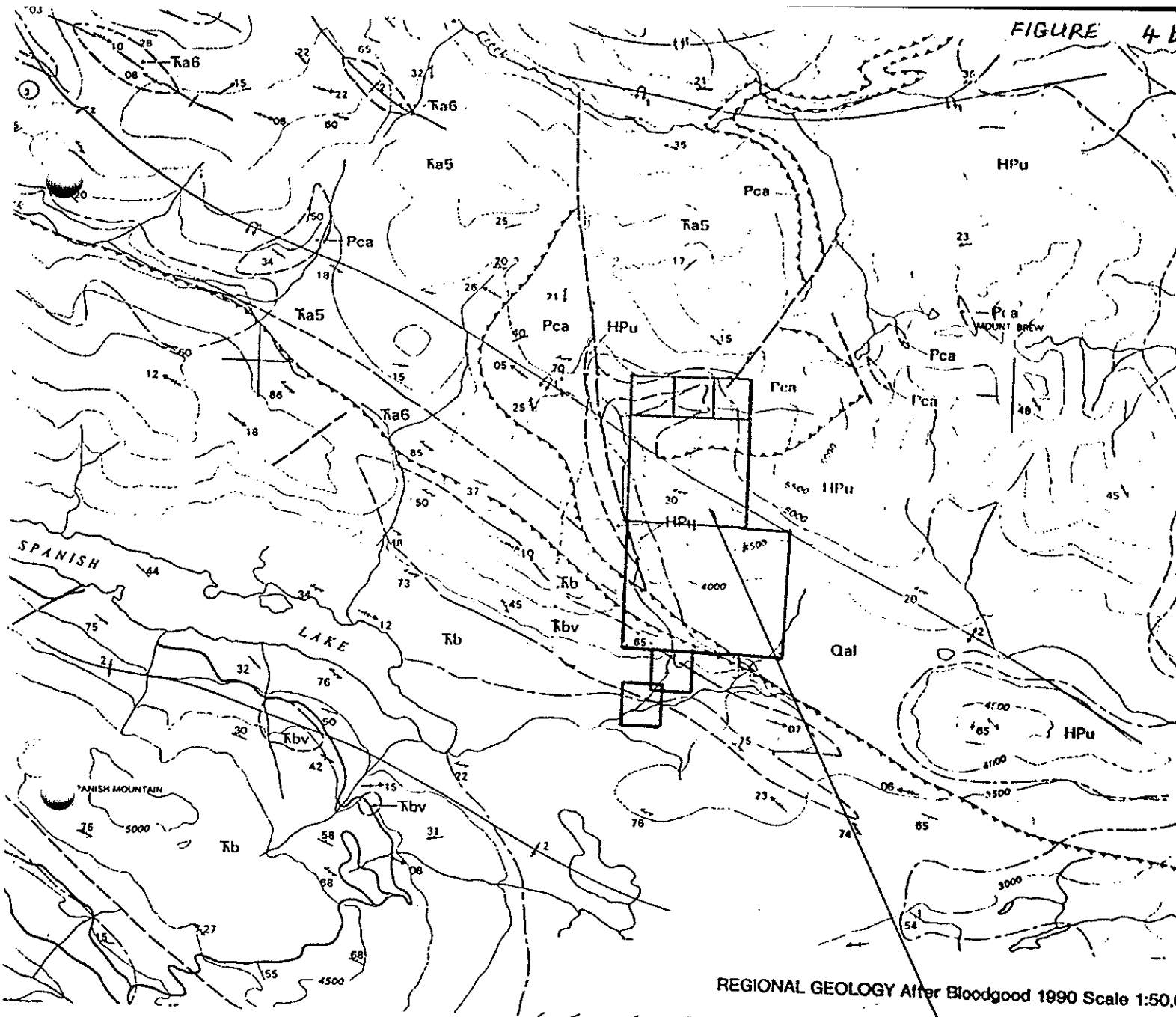


Figure 3. Regional geology of the Quesnel Lake area and the configuration of the Omineca - Intermontane belt boundar defined by the Eureka thrust.

FIGURE 4



REGIONAL GEOLOGY After Bloodgood 1990 Scale 1:50,

Revised 2001

SCALE
1:300,000

0 1 2 kilometres

SPANISH CREEK
PROPERTIES

FIG-U 4

BC
Ministry of Energy, Mines and Petroleum Resources

FIGURE 5
PAPER 1990-3

GEOLOGY OF THE EUREKA PEAK - MacKAY RIVER AREA AND THE SPANISH LAKE AREA CENTRAL BRITISH COLUMBIA
NTS 93A/7, 11

BY MARY ANNE BLOODGOOD

(SEE BELOW FOR ADDITIONAL SOURCES OF DATA)

KILOMETRES 0 1 2 3 4 KILOMETRES

SCALE 1 : 50 000

LEGEND

RECENT

QUATERNARY

Qal — Till, alluvium, colluvium

INTERMONTANE BELT

MESOZOIC

LATE TRIASSIC - EARLY JURASSIC

NICOLA GROUP

JTrb — Massive porphyritic flows, breccia and tuff

JTra — Massive flows, agglomerates, ashflow tuffs, pillow basalts, malic dikes and minor limestone

MIDDLE - LATE TRIASSIC

NICOLA GROUP

TrNd — Volcanic sandstone and wacke

TrNc — Volcaniclastic

TrNb — Banded slates and tuffs, minor fissile phyllites and limestone
V. = volcanic flows and tuffs

TrNa — Black phyllites
- TrNa6 — Graphitic black phyllites, with interbedded quartz sandstone and limestone
- TrNa5 — Silty slates
- TrNa4 — Laminated phyllite and porphyroblastic phyllite
- TrNa3 — Phyllitic siltstone
- TrNa2 — Micaceous black phyllite and tuff
- TrNa1 — Micaceous quartzite

PALEOZOIC

MISSISSIPPIAN - EARLY PERMIAN (?)

Pca — Crooked Amphibolite: amphibole - chlorite schist, chlorite - epidote schist, ultramafic nodules

OMINECA BELT

PALEOZOIC

LATE DEVONIAN TO MIDDLE MISSISSIPPIAN

QUESNEL LAKE GNEISS

QLG — Quartz feldspar gneiss, augen gneiss

PROTEROZOIC - E. PALEOZOIC

HADRYNIAN AND YOUNGER

SNOWSHOE FM

HPa — Alkali feldspar augen gneiss

HPs — Pelitic schist, minor quartzite

HPsm — Sandy marbles layers and lenses

HPu — Undifferentiated

SYMBOLS

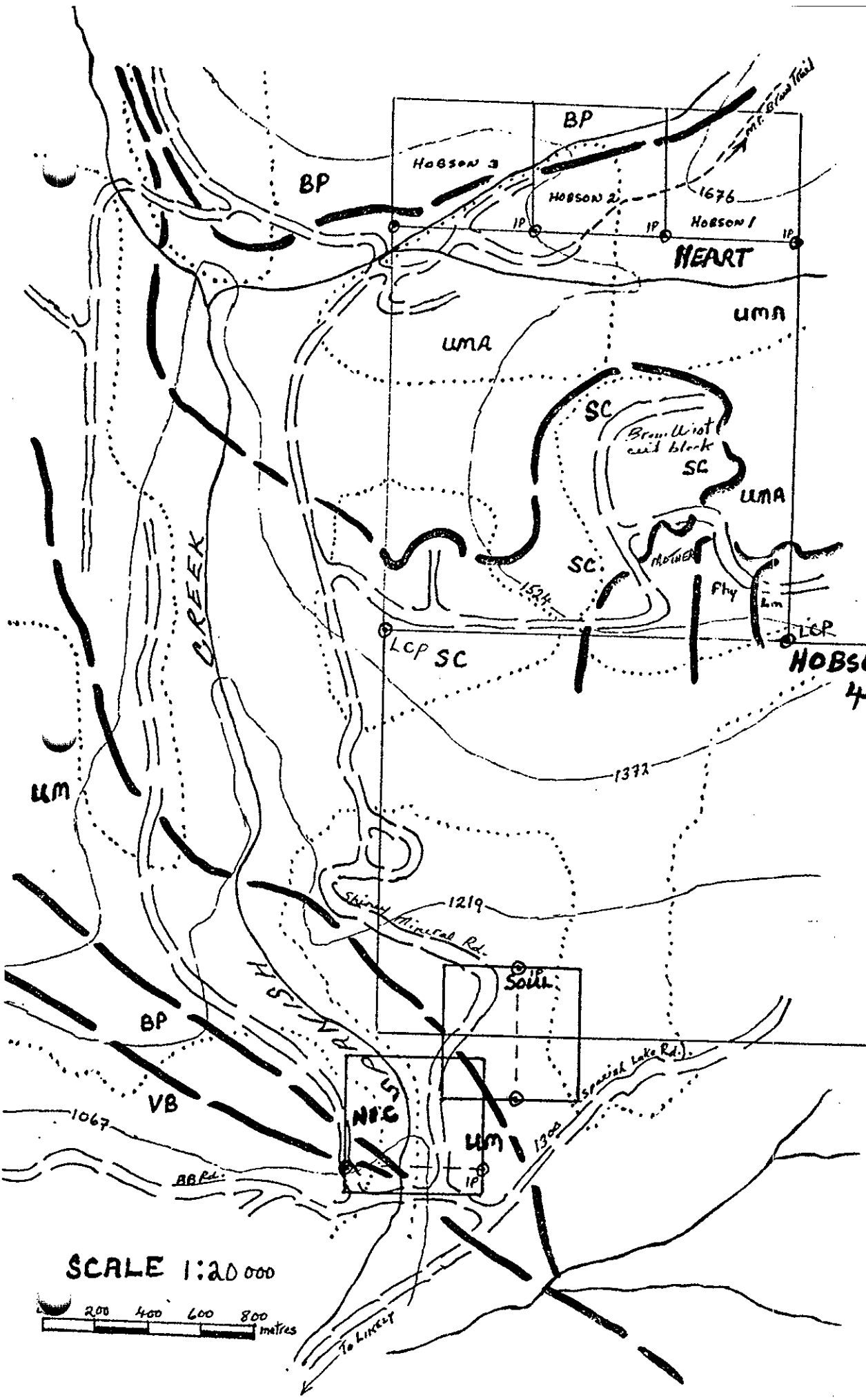
8.0 PROPERTY GEOLOGY :

Project properties are situated along the Eureka Thrust Fault boundary, at/or near the top of a regional fold. An ultramafic assemblage of mesothermal origin occurs over most of the ground and locally is in contact with adjacent seri-clastics and metasediments. Gold is the primary target on this property and is strongly associated to base metal mineralization. Local mineralization is related to iron-carbonate alteration and sulphides.

9.0 MINERALIZED ZONE DESCRIPTION :

Brew West cut block is about one square kilometer in size : has previously been logged and burned, is generally well accessed by forestry roads; also offers much surface rock exposure in shallow overburden. The project area depicts a central package of seri-clastic material, surrounded by mafic-ultramafics which contact mildly metamorphosed metasediment to the east. This log cut hosts immense quartz-carbonate gold veins; hundreds of metres long, many two-plus metres wide, within iron-carbonate envelopes, and which have distinct mineralization and zoning characteristics: gold-arsenopyrite, gold-chalcopyrite, gold-galena. The system favours the ultramafic intrusive assemblage, and quartz networks anomalous in gold, silver, copper, lead and bismuth cluster along contact zones between ultramafic and seri-clastic or ultramafic and metasediment. Iron-carbonate pods occur in various places within the greenstone unit along with some local granite float. Occasional feldspar-quartz-porphyry bodies are found along contact zones and can occur in any rock unit.

Fig. 5



Legend

SPANISH CREEK PROPER

NTS 93 A/11 u

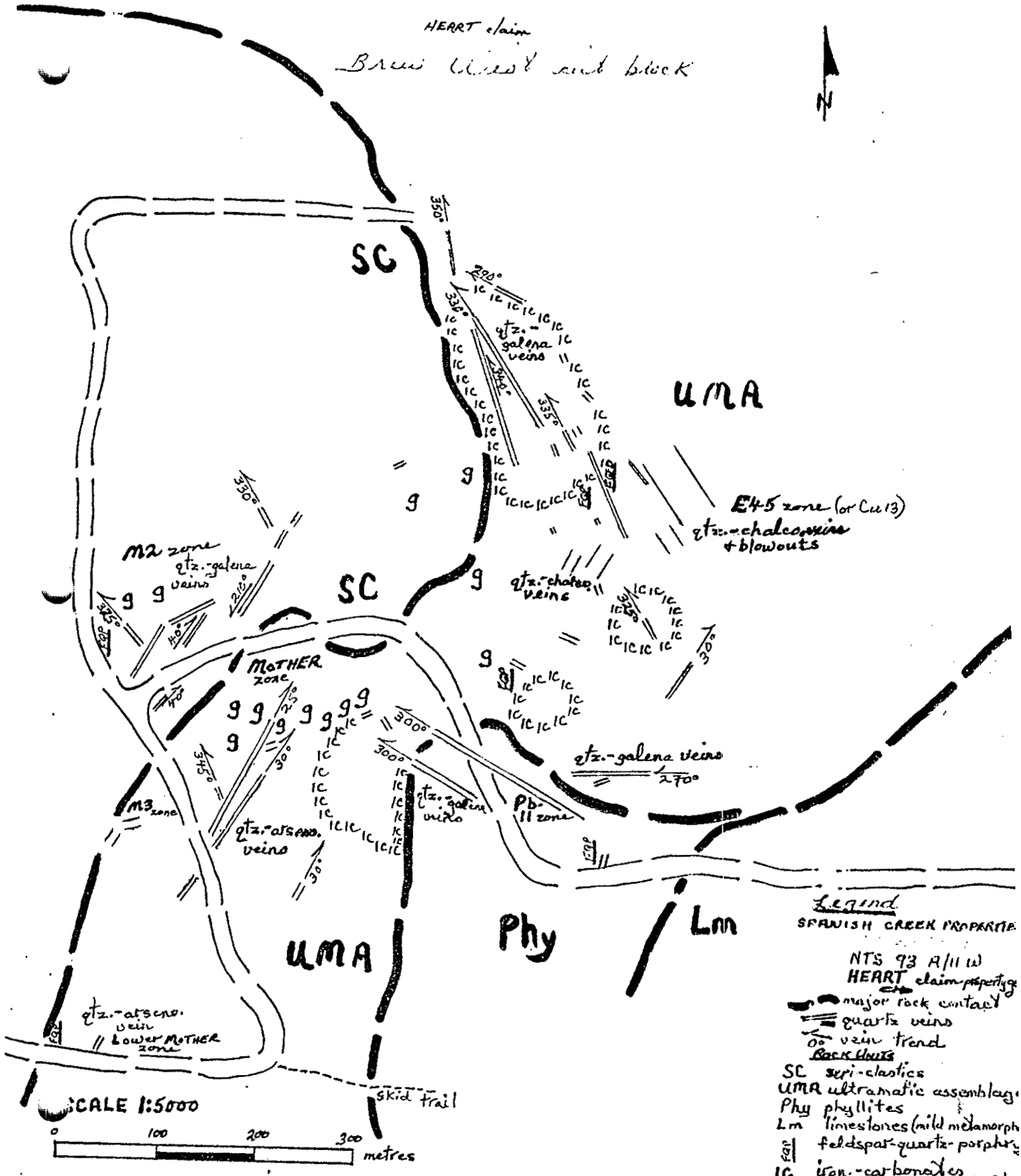
Heart + Hobson 1, 2, 3 a
+ Hobson 4 claim

LOCAL Geolo

UMA ultramafic assem
SC seri-clastics
Phy phyllites
Lm limestone (mild meta
UM ultramafics
BP black phyllites
VB green volcanic breccia

Elevations in metres

Fig. 6


HEART claim
Brew West and block
N
SC
UMA
E45 zone (or Cu 13)
qtz.-chalco veins
+ blowouts
M2 zone
qtz.-galena veins
MOTHER zone
qtz.-chalco veins
qtz.-galena veins
270°
M3 zone
qtz.-arsen. veins
Pb-11 zone
qtz.-galena veins
UMA
Phy
Lm
qtz.-arsen. vein
LOWER MOTHER zone
skid trail
SCALE 1:5000
0 100 200 300 metres
Legend
SPANISH CREEK PROPERTIES
NTS 93 A/11 W
HEART claim property
major rock contact
quartz veins
00 vein trend
ROCK UNITS
SC semi-clastics
UMA ultramafic assemblage
Phy phyllites
Lm limestones (mild metamorph
fpr feldspar-quartz-porphyry
IC iron-carbonates
g local granite float
By: Alistair Robertson

10.0 MACHINE TRENCHING, GEOCHEMISTRY :

10.1 Field Procedures

Two persons spent 31 days in the field; daily access to designated work sites was by 4x4 pickup. Regular (Eagle Explorer) UTM-NAD 83 and (Thommen) Altimeter readings were recorded at a camp base station and a field base station each morning and afternoon; readings were also recorded at about every 30 metres along trench cuts. Grid setups were compassed and flagged prior to mapping and sampling. SAMPLES: 249 rock chip samples were taken along 2 metre intervals from 10 trench cuts/ 18 rock samples were collected along 3500 line metres from 300° Grid/ 5 rock sample were collected from general reconnaisance of 3 zones. A total of 277 samples were taken; from which 63 trench cut samples were subsequently submitted to ECO-TECH Laboratories, Kamloops, B.C. for analysis.

10.2 Work Programs

- Hobson 4 (12 units, tenure 387064) claim was staked June 7 & 8; registered June 11

- 12 road drainage systems over 2 km were mapped & sampled June 27 & 28 5 rock samples were collected

- 300° Grid was traverse mapped & sampled over 3500 line metres (L0+00W L7+00W, 2+00N-2+00S) July 1, 2, 4, 5, 6; 18 rock samples were collected

- Machine work: low-bedded in 215 excavator/ filled 12 road deactivation cuts over 2 km/ cut 10 bucket-width, 1m depth trenches over 450m^2 (450m^3)/ backfilled 10 trench cuts for 452m/ July 17, 18, 19, Aug. 9

- Mapped and rock chip sampled 10 trench cuts: A, B, C, D, G, H, I, J, K, L over 452m^2/ A, B, C, D, G trenches were spaced 20m apart, and along with H trench strike @ 305°/ 249 rock chip samples were collected along 2m intervals/ July 21, 22, 23, 29, 30, 31, Aug. 1, 2

- 63 rock samples from B, C, D trench cuts were submitted to ECO-TECH Laboratories, Kamloops, B. C., for ICP mult-element, Au chem & Assay results/ July 25

- General reconnaisance: traverse mapped & sampled Lower Mother massive sulphide zone, Lower Mother gold-quartz zone, Cu-13 copper zone/ 5 rock samples were collected/ Aug. 7, 8

- Mapped & plotted field data, catalogued a total of 277 rock samples (chip & grab)/ Aug. 5, 6, 12, 13, 14, 15

- Low-bedded out 215 excavator back to Bullion Pit/ Aug. 16

* a) due to heavy rains and possible terrain difficulties, and after a discussion with district geologist - minor revision to trenches was done as seen on following maps
  b) Personal delivery of samples to analytical laboratory was cost-effective/ gas prices versus shipping costs

** **NOTE**

- 50 additional rock samples, from A, G, H trench cuts were later submitted to ECO-TECH Labs, for ICP multi-element & Au chem results/ Nov. 7

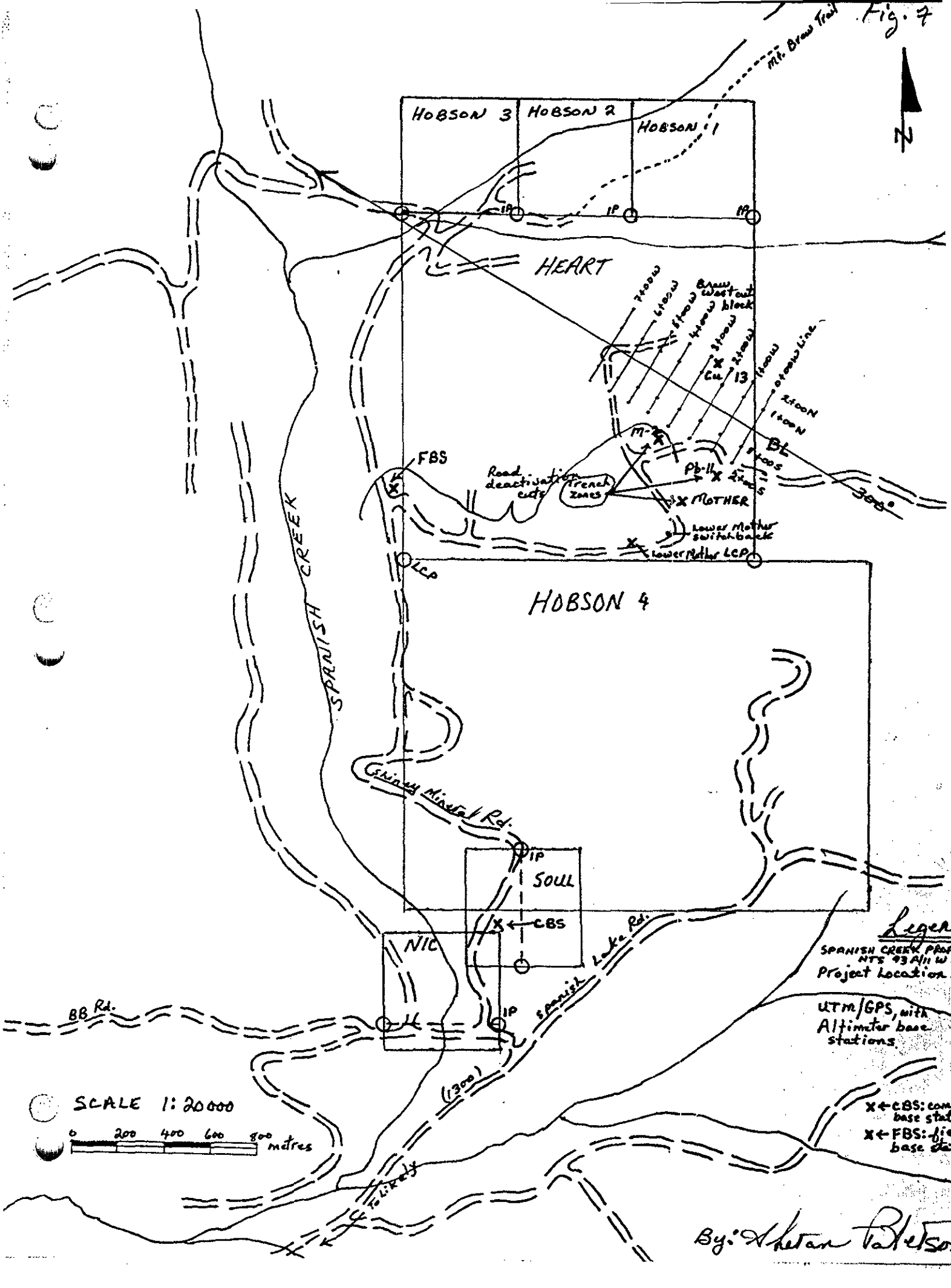


Fig. 7
Mt. Brew Trail
HOBSON 3
HOBSON 2
HOBSON 1
N
IP
IP
IP
HEART
7+00W
6+00W
5+00W
4+00W
3+00W
Brew West cut block
2+00W
1+00W
0+00W Line
Cu
13
2+00N
1+00N
0+00S
BL
FBS
Road deactivation cuts
Trench zones
Pb-11
MOTHER
Lower Mother switchback
Lower Mother LCP
LCP
HOBSON 4
SPANISH CREEK
Grizzly Mineral Rd.
IP
SOUL
CBS
NIC
IP
BB Rd.
Spanish Lake Rd.
(1300)
To Liard
SCALE 1: 20000
0 200 400 600 800 metres
Legend
SPANISH CREEK PROJ
NTS 93 A/11 W
Project Location
UTM/GPS, with Altimeter base stations
X ← CBS: com
base stat
X ← FBS: fi
base da
By: Kieran Pelton

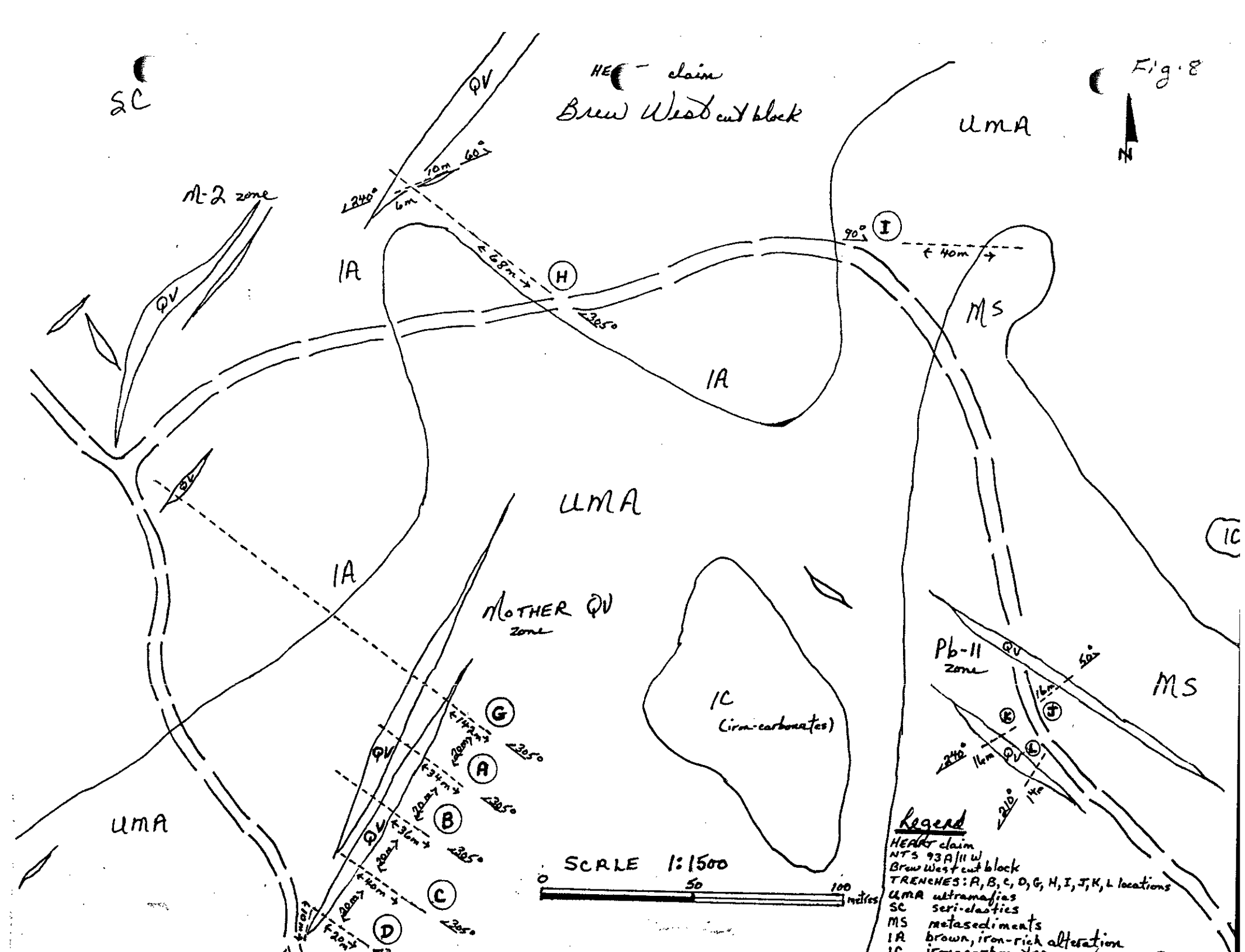


Fig. 8
HEART claim
Brew West cut block
SC
UMA
QV
M-2 zone
IA
MS
IC
(Cirm-carbonates)
MOTHER QV zone
Pb-11 zone
TRENCHES
SCALE 1:1500
0
50
100
metres
Legend
HEART claim
NTS 93A/11W
Brew West cut block
TRENCHES: A, B, C, D, G, H, I, J, K, L locations
UMA ultramafics
SC seri-clastics
MS metasediments
IA brown, iron-rich alteration
IC

11.0 RESULTS & INTERPRETATION :

The geochemical program conducted over HEART claim, Brew West cut block, continues to substantiate previous work: 3 specific mineralized **gold** patterns were indentified in quartz-carbonate fracture fillings, and significant values were revealed in some wallrock and greenstone. The results provided to date are from 3 trench cuts totalling 106m, over approximately 40m by 40m square area, from which only 63 samples were analyzed. Full comprehension of the program and all resulting data from machine and geochemical work; where trenches cross-cut a contact zone between greenstone and metasediments; cannot be thoroughly understood until analysis of the remaining samples is completed; subject to financing.

Hundreds of metres of mineralized quartz-carbonate veins, many 2m plus width, occur in linear paths along contacts, which indicate their relationship to an extensive greenstone unit contacting seri-clastics to the west, and metasediments to the east. Most veins occur in greenstone and are arsenopyrite-gold, or chalcopyrite-gold; seri-clastics and metasediments host galena-gold veins.

Grid mapping and sampling outlined quartz-carbonate networks and identified contact boundaries.

12.0 CONCLUSIONS :

1. Spanish Creek Properties are almost entirely underlain by middle triassic to early jurassic sedimentary and volcanic rocks of the Quesnel Terrane.

2. At least three regional deformation events overprinted area: folds, thrust faults; folds; spaced cleavage and fracture sets, normal & high-angle faults.

3. Mineralization is likely associated with mesothermal metamorphism.

4. The mafic-ultramafic assemblage occurs as an extensive body covering most of the project ground and is sandwiched between seri-clastics and metasediments; also hosts arsenopyrite-gold and chalcopyrite-gold quartz veins.

5. Gold remains a priority target with a strong correlation to base metal

6. The present targeted zones are open in all directions and are considered more than adequate for further, advanced exploration.

7. Outcrop exposure is extensive over Brew West and many huge quartz vein systems are very visible at surface.

*** NOTE**

Analysis of an additional 50 samples from 3 more trench cuts $80m^2$, reaffirms that significant **gold** patterns continue, extending into adjacent rock units in contact with the mafic-ultramafic intrusive. The total amount of samples analyzed: 113; covering $186m^2$ over much more than 40m by 80m square area.

13.0 RECOMMENDATIONS :

Advanced exploration methods are now preferred, in order to carry this ground to potential production. Suggested exploration methods are: geology, machine work (excavator), geochemistry (rock, soil), drilling, and geophysics (IP & VLF).

14.0 STATEMENT of EXPENDITURES :

Following statement outlines 2001 expenditures incurred on the claims.

Statement of Expenditures

Salaries (mapping, excavator work, rock geochemistry, Eagle Explorer GPS: UTM-NAD 83 & Thommen: Altimeter readings)		
S. Paterson 23 days @ $100/day x 1 person	$	2,300.00
M. Matherly 23 days @ $100/day x 1 person	$	2,300.00
Food & Accomodation $60/day x 2 persons x 23 days	$	2,760.00
Analytical costs (ICP multi-elem./ Au chem./ Au assay/ 63 rock chip smp.)	$	1,452.79
Travel (mileage, fuel)		
50km/day return x 23 days x 38¢/km	$	437.00
1 vehicle return (ECO-TECH Labs, Kamloops, B.C.)	$	55.40
Analytical costs, Nov.7/01.; ICP multi-elem./ Au chem./ 50 rock chip smp.	$	1,136.88
Travel (mileage, fuel)		
1 vehicle return (ECO-TECH Labs, Kamloops, B.C.)	$	63.75
Equipment rentals (Cat 215 excavator, 25.3 hr/ July 17, 18, 19, Aug. 9)		
Ray Savidan Ent. Ltd. (excavator work), 4 days	$	2,050.62
Eldorado Low-bedding Ltd. - (mobilize, demobilize excavator)	$	891.00
Other rentals (geochemistry - July, Aug.)		
2 inch water pump	$	100.00
Other expenses (12 unit claim recording fee, June 11)	$	120.00
Report preparation & mapping	$	800.00
Field supplies & equipment	$	1,000.00
TOTAL	**$**	**15,467.44**

15.0 STATEMENT of QUALIFICATIONS :

We, Sheran Paterson and Merle Matherly, Likely, B. C. do certify that:

1) We are prospectors and maintain valid free miner's permits.

2) We attended a Prospector's Course, Cariboo College, 1979 (instructor: Gary Bysouth, Sr. Geologist, Gibralter Mines Ltd.).

3) We completed the Advanced Mineral Exploration Course for Prospectors: Ministry of Energy, Mines & Petroleum Resourses, B. C.; 1981, 1982.

4) From 1978 to the present, we have been actively engaged in field exploration.

5) We personally executed and supervised work programs as described, and compiled and analyzed resulting data.

Appendix 1

BRITISH COLUMBIA

TO WHOM IT MAY CONCERN

This is your **"Annual Work Approval Number"** that will be necessary when you record a **"Statement of Exploration and Development"** with the Mineral Titles Branch in order to maintain your title.

ANNUAL WORK APPROVAL NUMBER

PRG - 2001 - 1001035 - 0001

This number is allotted to:

Heart (368325)

For the Period:

June 15/01 - June 15/2002

This number is very important as without it the work carried out may not be accepted.

Date: July 4/01 Issued by: M. Wood

Ministry of Energy and Mines | Mines Branch | 3990 - 22nd Avenue Prince George BC V2N 3A1 | Phone: (250) 565-6125 Fax: (250) 565-6015

Appendix 2

300° GRID: rock samples & descriptions : & UTM locations

Field smp No. Sample Descriptions

0106 - iron-carbonate lens & nodules in talcy greenstone/ line 0+00W, 0+00BL (base station)
0107 - blackish quartz vein / line 0+00W, 1+00N
0108 - minimum 10m length, 1m width - very vuggy quartz vein with leaching iron-carbonate, black leaching metals/ line 1+00W, BL
0109 - much weathered iron-carbonate pod/ line 1+00W, 0+20N
0110 - mixed greenstone, very limy, epidote/ line 1+00W, 1+00N
0111 - quartz blowout with iron-carbonates, chalco & malachite disseminations/ line 1+00W, 1+07N to 1+25N
0112 - Pb-11 quartz vein zone/ galena-rich blue-grey quartz/ line 2+00W, 2+00S
0113 - iron-rich alteration rock mixed with blue quartz eyes & weathered metals/ line 4+00W, BL
0114 - mixed alteration rock with much silica/ line 4+00W, 1+00N
0115 - quartz blowout - chalco & malachite/ line 4+00W, 1+60N
0116 - alteration rock with blue quartz eyes, much iron leach/ line 4+00W, 1+00S
0117 - same as 0116/ line 5+00W, BL
0118 - same as 0116/ line 5+00W, 1+00N
0119 - same as 0116/ line 5+00W, 1+00S
0120 - same as 0116/ line 5+00W, 2+00S
0121 - quartz sweat in iron-rich alteration rock/ line 6+00W, BL
0122 - same as 0121/ line 6+00W, 1+00S
0123 - same as 0121/ line 6+00W, 2+00S

Date	Time	Smp.	[Eagle Explorer-UTM NAD 83] Easting, Northing	[Thommen] Altimeter
July 1	10:06am	0106	06 16 743, 58 28 969	1631
	10:43am	0107	06 16 780, 58 29 053	1631
July 2	8:53am	0108	06 16 662, 58 28 969	1580
	9:21am	0109	06 16 670, 58 28 990	1581
	9:42am	0110	06 16 695, 58 29 062	1586
	10:11am	0111	06 16 707, 58 29 081	1587
July 4	10:01am	0112	06 16 500, 58 28 850	1591
	12:26noon	0113	06 16 388, 58 29 121	1586
	12:46noon	0114	06 16 425, 58 29 200	1585
	1:07pm	0115	06 16 449, 58 29 260	1590
	1:40pm	0116	06 16 348, 58 29 025	1585
July 5	10:41am	0117	06 16 306, 58 29 151	1575
	10:57am	0118	06 16 346, 58 29 248	1575
	11:44am	0119	06 16 261, 58 29 075	1582
	12:01noon	0120	06 16 227, 58 28 961	1580
July 6	9:26am	0121	06 16 197, 58 29 205	1580
	9:58am	0122	06 16 167, 58 29 105	1580
	10:12am	0123	06 16 118, 58 29 008	1578

300° GRID LINE UTM readings: Eagle Explorer-**UTM** NAD 83/ Thommen **Altimeter**

Date	Time	Location	UTM-Easting, Northing	Altimeter
July 1	7:46am	camp BS	06 15 559, 58 26 834	1080
	8:27am	field BS	06 15 148, 58 28 842	1360
	8:55am	Mother QV at Rd.	06 16 276, 58 28 714	1539
	10:06am	L0+00W, BL (BS)	06 16 743, 58 28 969	1631
	10:43am	L0+00W, 1+00N	06 16 780, 58 29 053	1631
	11:31am	L0+00W, 1+00S	06 16 708, 58 28 880	1608
	11:40am	L0+00W, 2+00S	06 16 681, 58 28 803	1579
	12:22noon	field BS	06 15 191, 58 28 805	1360
	12:33noon	camp BS	06 15 735, 58 26 925	1060
July 2	7:34am	camp BS	06 15 728, 58 26 889	1050
	7:58am	field BS	06 15 224, 58 28 796	1330
	8:53am	L1+00W, BL	06 16 667, 58 28 969	1580
	9:42am	L1+00W, 1+00N	06 16 695, 58 29 062	1586
	10:23am	L1+00W, 2+00N	06 16 747, 58 29 158	1579
	10:54am	L1+00W, 1+00S	06 16 638, 58 28 928	1565
	11:08am	L1+00W, 2+00S	06 16 596, 58 28 838	1550
	11:40am	field BS	06 15 187, 58 28 795	1321
	11:54am	camp BS	06 15 721, 58 26 890	1020
July 4	7:34am	camp BS	06 15 724, 58 26 888	1070
	8:00am	field BS	06 15 209, 58 28 797	1360
	8:22am	L2+00W, BL	06 16 552, 58 29 028	1591
	8:57am	L2+00W, 1+00N	06 16 587, 58 29 109	1590
	9:12am	L2+00W, 2+00N	06 16 629, 58 29 189	1605
	9:48am	L2+00W, 1+00S	06 16 532, 58 28 944	1595
	10:01am	L2+00W, 2+00S	06 16 500, 58 28 850	1591
July 4	9:32am	L3+00W, BL	06 16 479, 58 29 075	1591
	10:56am	L3+00W, 1+00N	06 16 515, 58 29 156	1589
	11:11am	L3+00W, 2+00N	06 16 551, 58 29 250	1585
	11:35am	L3+00W, 1+00S	06 16 451, 58 29 001	1590
	11:45am	L3+00W, 2+00S	06 16 410, 58 28 907	1580

Date	Time	Location	UTM-Easting, Northing	Altimeter
July 4	12:26noon	L4+00W, BL	06 16 388, 58 29 121	1586
	12:46noon	L4+00W, 1+00N	06 16 425, 58 29 200	1585
	1:24pm	L4+00W, 2+00N	06 16 457, 58 29 288	1582
	1:40pm	L4+00W, 1+00S	06 16 348, 58 29 025	1585
	2:00pm	L4+00W, 2+00S	06 16 312, 58 28 934	1580
	2:20pm	field BS	06 15 194, 58 28 803	1382
	2:33pm	camp BS	06 15 727, 58 26 882	1105
July 5	9:48am	camp BS	06 15 729, 58 26 891	1090
	10:09am	field BS	06 15 190, 58 28 798	1370
	10:41am	L5+00W, BL	06 16 306, 58 29 151	1575
	10:57am	L5+00W, 1+00N	06 16 346, 58 29 248	1575
	11:14am	L5+00W, 2+00N	06 16 374, 58 29 331	1579
	11:44am	L5+00W, 1+00S	06 16 261, 58 29 075	1582
	12:01noon	L5+00W, 2+00S	06 16 227, 58 28 961	1580
	12:36noon	field BS	06 15 192, 58 28 804	1370
	12:52noon	camp BS	06 15 730, 58 26 907	1070
July 6	8:34am	camp BS	06 15 729, 58 26 898	1100
	8:57am	field BS	06 15 147, 58 28 853	1380
	9:26am	L6+00W, BL	06 16 197, 58 29 205	1580
	9:40am	L6+00W, 1+00N	06 16 232, 58 29 290	1575
	9:48am	L6+00W, 2+00N	06 16 267, 58 29 379	1570
	9:58am	L6+00W, 1+00S	06 16 167, 58 29 105	1580
	10:12am	L6+00W, 2+00S	06 16 118, 58 29 008	1578
	10:50am	field BS	06 15 189, 58 28 793	1386
	11:06am	camp BS	06 15 732, 58 26 886	1091

ROAD DEACTIVATION CUT rock samples: & UTM locations

Field smp No. Sample Descriptions

0101 - # 6 cut/ blockier greenstone, heavy, blue quartz blebs, epidote in iron-carbonate matrix/ outcrop very rusty, fragmented
0102 - # 8 cut/ somewhat weathered greenstone outcrop - heavy, dense, blue quartz blebs, some epidote
0103 - # 9 cut/ same as 0102
0104 - #10 cut/ massive, heavy, sometimes epidote-rich ultramafics
0105 - #11 cut/ heavy, somewhat dense, epidote-rich ultramafics with some quartz-carbonate blebs & lens

Date	Time	Smp.	[Eagle Explorer-UTM NAD 83] Easting, Northing	[Thommen] Altimeter
June 28	9:13am	0101	06 15 834, 58 28 478	1440
	9:53am	0102	06 16 102, 58 28 497	1470
	10:04am	0103	06 16 173, 58 28 498	1478
	10:33am	0104	06 16 386, 58 28 521	1500
	10:48am	0105	06 16 307, 58 28 617	1512

ROAD DEACTIVATION CUT UTM readings:

Date	Time	Location	UTM-Easting, Northing	[Thommen] Altimeter
June 28	7:40am	camp BS	06 15 731, 58 26 892	1060
	8:00am	field BS	06 15 169, 58 28 832	1360
	8:31am	cut # 1	06 15 282, 58 28 639	1368
	8:40am	cut # 2	06 15 359, 58 28 580	1370
	8:43am	cut # 3	06 15 467, 58 28 509	1390
	8:48am	cut # 4	06 15 555, 58 28 484	1405
	9:03am	cut # 5	06 15 722, 58 28 504	1430
	9:33am	cut # 7	06 16 017, 58 28 499	1455
	11:14am	cut #12	06 16 301, 58 28 898	1550
	2:45pm	field BS	06 15 193, 58 28 800	1360
	3:21pm	camp BS	06 15 728, 58 26 894	1070

GENERAL RECONNAISANCE rock samples: & UTM locations

Field smp No. **Sample Descriptions**

Lower Mother switchback - heavy, dense, epidote-rich greenstone, much chalco/ epidote-rich massive sulfide hand-pick

Lower Mother quartz vein - much iron leach, thick arseno seams in quartz vein/ hand-pick

Cu 13 ⓐ - ref. 300° grid map/ chalco-rich quartz blowout/ hand-pick

Cu 13 ⓑ - ref. 300° grid map/ chalco-rich quartz blowout, 3m west/ hand-pick

Cu 13 ⓒ - ref. 300° grid map/ chalco-rich quartz blowout, 20m west/ hand-pick

Date	Time	Smp.	[Eagle Explorer-UTM NAD 83] Easting, Northing	[Thommen] Altimeter
June 28	10:20am	- Lower Mother quartz vein	06 16 228, 58 28 490	1478
Aug. 8	10:26am	- Cu 13 ⓐ	06 16 676, 58 29 107	1479
	10:32am	- Cu 13 ⓑ	06 16 673, 58 29 108	1478
	10:35am	- Cu 13 ⓒ	06 16 654, 58 29 125	1475

B, C, D TRENCH rock chip samples: sampled along 1m depth bucket-width trenches at 2m intervals, SE to NW/ analysis completed at Eco-Tech Laboratories Ltd.

B TRENCH/ C TRENCH/ D TRENCH

Field smp No.		Sample Descriptions
B 3601		- 0-2m, chip/ schisty, rusty weathered iron-carbonates in greenstone, some epidote
B 3701		- 2-4m, chip/ rotten iron-carbonate altered greenstone from 2-3m/ wallrock alteration begins at 3m, some epidote, some fairly large quartz sweats
B 3801		- 4-6m, chip/ same as 3701
B 3901	A	- 6-6.5m, South wallrock
B 3901	B	- 6.5-8m, Quartz vein
B 4001		- 8-10m, chip/ North wallrock
B 4101		- 10-12m, chip/ North wallrock, pale brown & green alteration rock
B 4201		- 12-14m, chip/ pale green schisty greenstone with much rotten iron-carbonate
B 4301		- 14-16m, chip/ rotten iron-carbonate alteration
B 4401	A	- 16-16.5m, South wallrock
B 4401	B	- 16.5-18m/ Quartz vein, hand-pick
B 4501		- 18-20m, chip/ North wallrock
B 4601		- 20-22m, chip/ slippery, rotten, schisty greenstone
B 4701		- 22-24m, chip/ warped, more greasy schisty greenstone
B 4801		- 24-26m, chip/ same as 4701
B 4901		- 26-28m, chip/ same as 4701
B 5001		- 28-30m, chip/ same as 4701
B 5101		- 30-32m, chip/ same as 4701
B 5201		- 32-34m, chip/ same as 4701
B 5301		- 34-36m, chip/ wallrock alteration & minor quartz lens
C 1601	A	- 4m station, hand-pick/ quartz iron-carbonate lens with small metal (chalco-like) blebs in heavy, greasy, much weathered greenstone, some epidote
C 1601		- 0-2m, chip/ much iron-carbonate leach, quartz-carbonate sweats in greenstone
C 1701		- 2-4m, chip/ similar to 1601 - more weathered & iron-carbonated, some malachite stain
C 1801		- 4-6m, chip/ same as 1601
C 1901		- 6-8m, chip/ same as 1601
C 2001		- 8-10m, chip/ more quartz-carbonate lensed than 1601
C 2101		- 10-12m, chip/ same as 1701
C 2201		- 12-14m, chip/ same as 1701
C 2301		- 14-16m, chip/ mix of greasy greenstone, alteration rock hosting small veinlets; much leaching
C 2401		- 16-18m, chip/ quartz lens & sweats, iron leach in denser epidote-rich greenstone
C 2501		- 18-20m, chip/ same as 2401
C 2601		- 20-22m, chip/ same as 2401
C 2701		- 22-24m, chip/ same sa 2401
C 2801		- 24-26m, chip/ epidote-rich greenstone to 25.75m

Field smp No.	Sample Descriptions
C 2901 A	- 26.5-27m/ Quartz vein, some rust, iron seams
C 2901 B	- 25.75-26m/ South wallrock
C 2901 C	- 27-28m/ North wallrock
C 3001	- 28-30m, chip/ North wallrock
C 3101	- 30-32m, chip/ North wallrock
C 3201	- 32-34m, chip/ slippery schisty greenstone
C 3301 A	- 34-34.75m/ South wallrock
C 3301 B	- 34.75-35.25m/ Quartz vein
C 3301 C	- 35.25-36m, chip/ North wallrock
C 3401	- 36-38m, chip/ schisty, greasy rotten greenstone with epidote
C 3501	- 38-40m, chip/ same as 3401
D 101	- 0-2m, chip/ fairly dense greenstone, some epidote & black metal blebs, thin iron-carbonate layer
D 201	- 2-4m, chip/ same as 101
D 301	- 4-6m, chip/ rusty, weathered rotten greenstone starts at 4.75m
D 401	- 6-8m, chip/ banded, somewhat rotten, weathering iron-carbonates
D 501	- 8-10m, chip/ same as 401
D 601	- 10-12m, chip/ quite vuggy, epidote-rich, much heavier greenstone; some quartz sweats & lenses with leaching iron
D 701	- 12-14m, chip/ same as 601
D 801	- 14-16m, chip/ same as 601
D 901	- 16-18m, chip/ same as 601
D 1001	- 19m station/ South wallrock, Mother quartz vein
D 1101	- 20m station/ Mother Quartz vein, hand-pick over 1.5m
D 1201	- 22m station/ North wallrock, Mother quartz vein
D 1301	- 24-26m, chip/ Mother quartz vein
D 1401	- 26-28m, chip/ same as 1301
D 1501	- 28-30m, chip/ same as 1301
* D 401 A	- 6m station/ South wallrock
D 401 B	- 6m station/ Quartz vein
D 401 C	- 6m station/ North wallrock

Rock chip samples con't., A TRENCH

Field smp No.		Sample Descriptions
A 5401		- 0-2m, chip/ rotten alteration 0-1m; pale rotten greenstone 1-2m
A 5501		- 2-4m, chip/ heavy, greasy greenstone
A 5601		- 4-6m, chip/ same as 5501
A 5701		- 6-8m, chip/ same as 5501
A 5801		- 8-10m, chip/ same as 5501
A 5901	A	- 10-10.25m/ South wallrock
A 5901	B	- 10.25-11.75m/ Quartz vein
A 5901	C	- 11.75-12m/ North wallrock
A 6001		- 12-14m, chip/ mix wallrock, platy rotten greenstone
A 6101		- 14-16m, chip/ slippery, rotten, heavy greenstone
A 6201		- 16-18m, chip/ same as 6101
A 6301		- 18-20m, chip/ much altered brown rock
A 6401		- 20-22m, chip/ same as 6301
A 6501	A	- 22-23.25m/ South wallrock, rotten, muddy
A 6501	B	- 23.25-25m/ Quartz vein with leaching iron, metal seams & disseminations
A 6601		- 25-26m/ North wallrock - rotten, fractured, gouge-like
A 6701		- 26-28m, chip/ greasy platy greenstone
A 6801		- 28-30m, chip/ same as 6701, much rusty weathered iron-carbonate
A 6901		- 30-32m, chip/ same as 6701
A 7001		- 32-34m, chip/ same as 6701

Rock chip samples con't., G TRENCH

Field smp No.	Sample Descriptions
G 7101	- 0-2m, chip/ heavy, dense, epidote greenstone, some iron disseminations
G 7201	- 2-4m, chip/ same as 7101
G 7301	- 4-6m, chip/ same as 7101
G 7401 A	- 6-7.25m/ South wallrock
G 7401 B	- 7.25-8m/ Quartz vein - highly fractured with pyrite seams, disseminations
G 7501	- 8-10m, chip/ North wallrock, has quartz lens
G 7601	- 10-12m, chip/ heavy dense ultramafics, epidote, some quartz lens & sweats
G 7701	- 12-14m, chip/ same as 7601
G 7801	- 14-16m, chip/ greasy, dense, epidote-rich greenstone; narrow quartz lens, much leaching iron-carbonate
G 7901	- 16-18m, chip/ same as 7801
G 8001 A	- 18-19m, chip/ same as 7801
G 8001 B	- 19-20m, chip/ South wallrock, very fractured, rotten, quartz lensed
G 8101 A	- 20-20.5m/ Quartz vein, some pyrite seams & disseminations
G 8101 B	- 20.5-22m/ North wallrock, has pronounced black stain
G 8201	- 22-24m, chip/ platy greenstone with much leaching iron-carbonate
G 8301	- 24-26m, chip/ same as 8201
G 8401	- 26-28m, chip/ blocky, heavier, dense ultramafics, much leaching iron-carbonate
G 8501	- 28-30m, chip/ same as 8401
G 8601	- 30-32m, chip/ same as 8401
G 8701	- 32-34m, chip/ same as 8401
G 8801	- 34-36m, chip/ platy greenstone
G 8901	- 36-38m, chip/ same as 8801
G 9001	- 38-40m, chip/ same as 8801
G 9101	- 40-42m, chip/ same as 8801
G 9201	- 42-44m, chip/ somewhat heavier, platy greenstone, some epidote, rusty iron-carbonates, some quartz lens & sweats, vuggy crumbly quartz
G 9301	- 44-46m, chip / same as 9201
G 9401	- 46-48m, chip/ same as 9201
G 9501	- 48-50m, chip/ same as 9201
G 9601	- 50-52m, chip/ same as 9201
G 9701	- 52-54m, chip/ same as 9201
G 9801	- 54-56m, chip/ same as 9201
G 9901	- 56-58m, chip/ same as 9201
G 10001	- 58-60m, chip/ same as 9201
G 10101	- 60-62m, chip/ same as 9201
G 10201	- 62-64m, chip/ very platy greenstone with bands of very weathered iron-carbonate lens & sweats
G 10301	- 64-66m, chip/ same as 10201
G 10401	- 66-68m, chip/ same as 10201
G 10501	- 68-70m, chip/ same as 10201

Rock chip samples con't., G TRENCH

Field smp No.	Sample Descriptions
G 10601	- 70-72m, chip/ same as 10201
G 10701	- 72-74m, chip/ greenstone to 73m, then pale alteration to at least 74m
G 10801	- 74-76m, chip/ pale, very heavy iron-rich , brown alteration/ zone of oxidation - continues beyond trench limits
G 10901	- 76-78m, chip/ same as 10801
G 11001	- 78-80m, chip/ same as 10801
G 11101	- 80-82m, chip/ same as 10801
G 11201	- 82-84m, chip/ same as 10801
G 11301	- 84-86m, chip/ blocky, heavy, dense, pale, iron-rich alteration/ quartz sweats, epidote
G 11401	- 86-88m, chip/ same as 11301
G 11501	- 88-90m, chip/ same as 11301
G 11601	- 90-92m, chip/ same as 11301
G 11701	- 92-94m, chip/ same as 11301
G 11801	- 94-96m, chip/ same as 11301
G 11901	- 96-98m, chip/ same as 11301
G 12001	- 98-100m, chip/ same as 11301
G 12101	- 100-102m, chip/ same as 11301
G 12201	- 102-104m, chip/ same as 11301
G 12301	- 104-106m, chip/ same as 11301
G 12401	- 106-108m, chip/ same as 11301
G 12501	- 108-110m, chip/ same as 11301
G 12601	- 110-112m, chip/ same as 11301
G 12701	- 112-114m, chip/ same as 11301
G 12801	- 114-116m, chip/ same as 11301
G 12901	- 116-118m, chip/ same as 11301
G 13001	- 118-120m, chip/ same as 11301
G 13101	- 120-122m, chip/ same as 11301
G 13201	- 122-124m, chip/ same as 11301
G 13301	- 124-126m, chip/ same as 11301
G 13401	- 126-128m, chip/ same as 11301
G 13501 A	- 128-130m/ heavy dense alteration to 129m/ sample: South wallrock 129-129.75m
G 13501 B	- 129.75-130m/ Quartz vein; rusty, rotten, fractured
G 13601	- 130-132m, chip/ sample: North wallrock 130-131m; though greener , rock from 131-132m has same characteristics as 11301 sample
G 13701	- 132- 134m, chip/ same as 11301, but greener
G 13801	- 134-136m, chip/ same as 13701
G 13901	- 136-138m, chip/ same as 13701
G 14001	- 138-140m, chip/ same as 13701
G 14101	- 140-142m, chip/ same as 13701

Rock chip samples con't,, H TRENCH

Field smp No.	Sample Descriptions
H 14201	- 0-2m, chip/ rotten, schisty, brown iron-rich alteration rock
H 14301	- 2-4m, chip/ large quartz sweats in heavy, hard, brittle, brown alteration rock
H 14401	- 4-6m, chip/ brown iron-rich, heavy alteration rock, some rotten
H 14501	- 6-7m, chip/ same as 14401
H 14501 A	- 7-7.5m/ South wallrock, very heavy fractured
H 14501 B	- 7.5-7.75m/ Quartz vein, rotten, fractured
H 14501 C	- 7.75-8m/ North wallrock
H 14601	- 8-10m, chip/ rotten, heavy, dense, iron-rich, some epidote
H 14701	- 10-12m, chip/ same as 14601
H 14801	- 12-14m, chip/ same as 14601
H 14901	- 14-16m, chip/ same as 14601
H 15001	- 16-18m, chip/ same as 14601
H 15101	- 18-20m, chip/ same as 14601
H 15201	- 20-22m, chip/ same as 14601
H 15301	- 22-24m, chip/ same as 14601
H 15401	- 24-26m, chip/ same as 14601
H 15501	- 26-28m, chip/ same as 14601
H 15601	- 28-30m, chip/ same as 14601
H 15701	- 30-32m, chip/ same as 14601
H 15801	- 32-34m, chip/ same as 14601
H 15901	- 34-36m, chip/ same as 14601
H 16001	- 36-38m, chip/ same as 14601
H 16101	- 38-40m, chip/ dense, very very heavy, rotten, iron-rich, some epidote
H 16201	- 40-42m, chip/ same as 16101
H 16301	- 42-44m, chip/ same as 16101
H 16401	- 44-46m, chip/ same as 16101
H 16501	- 46-48m, chip/ same as 16101
H 16601	- 48-50m, chip/ same as 16101
H 16701	- 50-52m, chip/ more shaly, platy-like brown alteration rock
H 16801	- 52-54m, chip/ same as 16701
H 16901	- 54-56m, chip/ same as 16701
H 17001	- 56-58m/ South wallrock of 6m wide M-2 quartz vein
H 17101	- 58-60m/ M-2 quartz vein, brittle with vugs, often honeycomb, much rust, metal seams & blebs of visible pyrites
H 17201	- 60-62m, chip/ M-2 quartz vein
H 17301	- 62-64m, chip/ M-2 quartz vein
H 17401	- 64-66m, chip/ North wallrock of M-2 QV
H 17501	- 66-68m, chip/ North wallrock

Roch chip samples con't., H TRENCH

Field smp No. Sample Descriptions

(samples from: 6m quartz vein extension striking @ 240°)

H 17601 A - 2-4m/ M-2 quartz vein, north side
H 17601 B - 2-4m/ South wallrock
H 17701 A - 4-6m/ M-2 quartz vein, north side
H 17701 B - 4-6m/ South wallrock

(samples from: 10m quartz vein extension striking @ 60°)

H 17801 A - 6-8m/ M-2 quartz vein, south side
H 17801 B - 6-8m/ North wallrock
H 17901 A - 8-10m/ M-2 quartz vein, south side
H 17901 B - 8-10m/ North wallrock

Rock chip samples con't., I TRENCH

Field smp No.	Sample Descriptions
I 18001	- 0-2m, chip/ platy, layered greasy ultramafics
I 18101	- 2-4m, chip/ same as 18001
I 18201	- 4-6m, chip/ very weathered iron-carbonate rich layers in greasy green schisty rock/ some iron-carbonate layers up to 40cm width
I 18301	- 6-8m, chip/ same as 18201
I 18401	- 8-10m,chip/ more greasy schisty rock, less iron-carbonate
I 18501	- 10-12m, chip/ same as 18401
I 18601	- 12-14m, chip/ same as 18401
I 18701	- 14-16m, chip/ same as 18401
I 18801	- 16-18m, chip/ same as 18401
I 18901	- 18-20m, chip/ same as 18401
I 19001	- 20-22m, chip/ same as 18401
I 19101	- 22-24m, chip/ same as 18401
I 19201	- 24-26m, chip/ minor greenstone, fault gouge-like, very rotten alteration, much leaching iron-carbonate
I 19301	- 26-28m, chip/ same as 19201
I 19401	- 28-30m, chip/ same as 19201
I 19501	- 30-32m, chip/ same as 19201
I 19601	- 32-34m, chip/ same as 19201
I 19701	- 34-36m, chip/ same as 19201
I 19801	- 36-38m, chip/ same as 19201
I 19901	- 38-40m, chip/ same as 19201

Pb-11 zone

Rock chip samples con't.; J, K, L TRENCHES

Field smp No.	Sample Descriptions
J 20001	- 0-2m, chip/ pale, brown,heavy, greasy, rusty dense alteration rock
J 20101	- 2-4m, chip/ same as 20001
J 20201	- 4-6m, chip/ much iron-carbonate layers in brown alteration rock, much oxidation
J 20301	- 6-8m, chip/ same as 20001
J 20401	- 8-10m, chip/ same as 20001
J 20501	- 10-12m, chip/ much weathered, heavier, greasier brown alteration rock
J 20601 A	- 12-13.25m/ West wallrock, heavy, dense
J 20601 B	- 13.25m-14m/ Quartz vein, rusty, some vugs, galena-rich
J 20701	- 14-16m, chip/ East wallrock
K 20801	- 0-2m, chip/ same as J 20001
K 20901	- 2-4m, chip/ same as 20801
K 21001	- 4-6m, chip/ very rusty weathered alteration rock
K 21101 A	- 6-8m, chip/ South wallrock
K 21101 B	- 6-8m/ Quartz vein, heavy, vuggy, rusty, galena-rich
K 21201	- 8-10m/ South wallrock
K 21301	- 10-12m, chip/ same as 21001
K 21401	- 12-14m, chip/ same as 21001
K 21501	- 14-16m, chip/ same as 21001
L 21601	- 0-2m, chip/ same as K 21001
L 21701	- 2-4m, chip/ same as K 21001
L 21801 A	- 4-6m, chip/ East wallrock
L 21801 B	- 6-6.1m/ Quartz vein, rotten, vuggy, much leaching iron
L 21901	- 6.1-8m, chip/ West wallrock
L 22001	- 8-10m, chip/ same as K 21001
L 22101	- 10-12m, chip/ same as K 21001
L 22201	- 12-14m, chip/ same as K 21001

TRENCHES: D, C, B, A, G, H, I, J, K, L - UTM readings; Eagle Explorer NAD 83/ Thommen Altimeter

Date	Time	Location	UTM-Easting,	Northing	Altimeter
July 21	7:00am	camp BS	06 15 725,	58 26 894	1104
	8:50am	field BS	06 15 248,	58 28 772	1380
	10:05am	D Tr. - 0m	06 16 298,	58 28 675	1555
	12:04noon	D Tr. -20m	06 16 279,	58 28 657	1551
	1:40pm	D Tr. -30m	06 16 278,	58 28 659	1550
	2:00pm	field BS	06 15 164,	58 28 790	1395
	2:12pm	camp BS	06 15 735,	58 26 901	1100
July 22	7:00am	camp BS	06 15 729,	58 26 890	1090
	8:04am	field BS	06 15 136,	58 28 879	1380
	9:00am	C Tr. - 0m	06 16 331,	58 28 704	1552
	1:46pm	field BS	06 15 165,	58 28 797	1372
	2:00pm	camp BS	06 15 719,	58 26 888	1090
July 23	11:32am	C Tr. -40m	06 16 290,	58 28 731	1549
	6:57am	camp BS	06 15 726,	58 26 891	1085
	8:21am	field BS	06 15 192,	58 28 803	1365
	11:37am	B Tr. - 0m	06 16 319,	58 28 745	1553
	11:35am	B Tr. -36m	06 16 286,	58 28 757	1552
	12:11noon	field BS	06 15 187,	58 28 800	1365
	1:11pm	camp BS	06 15 705,	58 26 867	1081
July 29	9:25am	camp BS	06 15 728,	58 26 894	1105
	9:47am	field BS	06 15 178,	58 28 827	1391
	10:50am	A Tr. - 0m	06 16 323,	58 28 761	1599
	11:08am	A Tr. -34m	06 16 295,	58 28 773	1599
	1:58pm	field BS	06 15 184,	58 28 783	1400
	2:17pm	camp BS	06 15 737,	58 26 880	1091
July 30	7:16am	camp BS	06 15 727,	58 26 896	1110
	8:16am	field BS	06 15 189,	58 28 802	1399
	12:30noon	G Tr. - 0m	06 16 327,	58 28 774	1581
	12:33noon	G Tr. -30m	06 16 304,	58 28 785	1578
	12:36noon	G Tr. -60m	06 16 281,	58 28 800	1577
	1:56pm	field BS	06 15 189,	58 28 798	1390
	2:26pm	camp BS	06 15 731,	58 26 877	1061
July 31	8:12am	camp BS	06 15 748,	58 26 917	1068
	8:31am	field BS	06 15 191,	58 28 811	1342
	9:16am	G Tr. -90m	06 16 233,	58 28 815	1525
	9:19am	G Tr. -120m	06 16 219,	58 28 834	1526
	12:36noon	G Tr. -142m	06 16 208,	58 28 853	1540
	7:22pm	field BS	06 15 182,	58 28 786	1352
	7:32pm	camp BS	06 15 736,	58 26 888	1062
Aug. 1	6:54am	camp BS	06 15 729,	58 26 893	1070
	9:05am	field BS	06 15 187,	58 28 805	1348
	1:12pm	H Tr. - 0m	06 16 322,	58 28 924	1560
	1:21pm	H Tr. -30m	06 16 295,	58 28 941	1561
	1:24pm	H Tr. -60m	06 16 270,	58 28 959	1560
	3:09pm	field BS	06 15 189,	58 28 804	1360
	3:22pm	camp BS	06 15 716,	58 26 895	1060

TRENCH UTM & Altimeter readings con't.

Date	Time	Location	UTM-Easting,	Northing	Altimeter
Aug. 2	7:17am	camp BS	06 15 730,	58 26 890	1065
	8:41am	field BS	06 15 180,	58 28 794	1355
	5:00pm	I Tr. - 0m	06 16 435,	58 28 960	1569
	4:57pm	I Tr. -40m	06 16 478,	58 28 955	1570
	1:43pm	J Tr. - 0m	06 16 520,	58 28 827	1575
	1:38pm	J Tr. -16m	06 16 529,	58 28 839	1580
	1:54pm	K Tr. - 0m	06 16 512,	58 28 812	1572
	1:58pm	K Tr. -16m	06 16 493,	58 28 802	1569
	2:04pm	L Tr. - 0m	06 16 515,	58 28 804	1572
	2:08pm	L Tr. -14m	06 16 509,	58 28 789	1570
	5:23pm	field BS	06 15 193,	58 28 824	1365
	5:41pm	camp BS	06 15 675,	58 26 852	1060

Appendix 3

SAMPLE SHIPMENT NOTICE

Eco-Tech LABORATORIES LTD.

☐ 10041 East Trans Canada Hwy., Kamloops, B.C. Canada
V2C 6T4 • Telephone (604) 573-5700 • Fax (604) 573-4557

☐ Railway Street & 6th Avenue, P.O. Box 937, Stewart, B.C. Canada
V0T 1W0 • Telephone (604) 636-2580

LAB. REPORT NO. _____

Date Received July 25/01.

☐ PRIORITY SERVICE (20 samples/24 hours)
(CHARGED AT 1.5 x LIST PRICE)

Samples submitted by: SHINEY MINERAL RESOURCES
Client project number: _____
Purchase order number: _____
Shipment number: _____
No. Parcels in Shipment: _____
Total No. Samples: 63
Date Shipped: _____

Special Instructions: if Au chem is 1000 ppb or greater, then assay for Au, Pt, Pd

☐ Data Disk ☐ FAX Results to # ( ) _____ - _____

Number of Samples	Type	Sample Number	Geo Chem Trace Level (ppm)	Assay Ore Grade (%)	Elements to be analyzed								Multi Element			
					Au	Ag	Cu	Pb	Zn				30 ELEM. ICP	24 ELEM. ICP	WHOLE ROCK	
63	ROCK												✓			

Coarse Reject (Free storage for 30 days)
- ☐ Return/collect after analysis
- ☐ Return/collect after 30 days
- ☐ Discard after 30 days
- ☐ Store after 30 days (Current Charges Apply)

*IF NOT MARKED, REJECT IS DISCARDED AFTER 30 DAYS.

Pulp (Free Storage for 90 days)
- ☐ Return/collect after analysis
- ☐ Return/collect after 90 days
- ☐ Discard after 90 days
- ☐ Store after 90 days (Current Charges Apply)

* IF NOT MARKED, PULP IS DISCARDED AFTER 90 DAYS.

Original	Copy
☒ Results ☒ Invoice	☒ Results ☐ Invoice
Company: SHINEY MINERAL RESOURCES	Company: DANY LUK CONSULTING SERVICES Ltd.
Street: BOX 38	Street:
City: LIKELY, B.C. P. Code: V0L 1N0	City: P. Code:
Attention:	Attention:
☐ Fax: ( )	☐ Fax: (250) 563-2148

ORIGINAL - Lab Copy CARBON - Field Copy

2-Aug-01

ECO-TECH LABORATORIES LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2001-214

SHINEY MINERAL RESOURCES
BOX 38
LIKELY, BC
V0L 1N0

No. of samples received: 63
Sample type: Rock
Project #: None Given
Shipment #: None Given
Samples submitted by: Shiney Mineral

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	B-36 01	25	<0.2	2.35	<5	40	<5	0.05	<1	42	141	68	8.13	<10	1.95	1696	2	0.03	35	490	8	<5	<20	2	<0.01	<10	213	<10	<1	39
2	B-37 01	<5	<0.2	3.36	<5	55	<5	0.06	<1	35	132	53	6.98	<10	2.85	1420	<1	0.03	43	540	12	<5	<20	<1	<0.01	<10	210	<10	<1	45
3	B-38 01	20	<0.2	3.46	35	110	<5	0.02	<1	60	143	119	>10	<10	2.21	2192	1	0.02	49	700	10	<5	<20	<1	<0.01	<10	321	10	<1	61
4	B-39 01 A	15	<0.2	0.92	45	70	<5	0.01	<1	43	96	56	7.64	<10	0.18	1845	2	0.03	69	770	<2	<5	<20	<1	<0.01	<10	51	<10	<1	74
5	B-39 01 B	260	<0.2	0.08	60	<5	<5	<0.01	<1	2	167	14	1.51	<10	0.02	97	1	<0.01	8	70	12	<5	<20	<1	<0.01	<10	15	<10	<1	6
6	B-40 01	10	<0.2	3.08	30	105	<5	<0.01	<1	39	114	89	6.40	<10	2.23	1688	<1	0.02	56	310	8	<5	<20	<1	<0.01	<10	94	<10	<1	78
7	B-41 01	15	<0.2	2.61	35	65	<5	0.02	<1	30	90	73	5.60	<10	2.14	1068	<1	0.03	35	260	8	<5	<20	<1	<0.01	<10	82	<10	<1	47
8	B-42 01	10	<0.2	2.76	15	85	<5	0.06	<1	27	83	66	5.28	<10	1.98	1137	1	0.03	29	250	8	<5	<20	1	<0.01	<10	99	10	<1	50
9	B-43 01	25	<0.2	2.90	20	90	<5	0.02	<1	38	128	32	6.23	<10	2.03	1409	3	0.05	54	380	8	<5	<20	2	<0.01	<10	77	<10	<1	79
10	B-44 01 A	30	<0.2	1.63	35	45	<5	<0.01	1	39	99	178	6.89	<10	0.71	1213	3	0.03	32	590	6	<5	<20	<1	<0.01	<10	53	10	<1	61
11	B-44 01 B	430	0.6	0.14	995	<5	<5	0.01	1	14	130	24	>10	<10	0.02	126	7	<0.01	15	370	50	<5	<20	<1	<0.01	<10	55	10	<1	46
12	B-45 01	15	<0.2	2.81	30	70	<5	0.05	<1	34	123	99	6.32	<10	2.20	1448	1	0.03	43	570	10	<5	<20	<1	<0.01	<10	153	<10	<1	68
13	B-46 01	5	<0.2	4.07	15	65	<5	0.06	<1	36	122	123	6.67	<10	3.51	1486	<1	0.02	45	580	8	<5	<20	<1	<0.01	10	221	<10	<1	78
14	B-47 01	10	<0.2	4.00	15	75	<5	0.09	<1	35	100	108	6.83	<10	3.50	1968	2	0.01	41	710	8	<5	<20	<1	<0.01	<10	143	<10	<1	94
15	B-48 01	15	<0.2	4.23	10	50	<5	0.08	<1	38	161	117	6.51	<10	3.82	1470	<1	0.01	60	560	6	<5	<20	<1	<0.01	<10	111	<10	<1	126
16	B-49 01	10	<0.2	3.77	10	40	<5	0.07	<1	31	158	125	5.74	<10	3.47	1835	3	0.02	38	540	8	<5	<20	<1	<0.01	<10	138	<10	<1	64
17	B-50 01	240	<0.2	4.71	15	35	<5	0.07	<1	57	146	204	7.93	<10	4.49	2383	5	0.01	57	610	10	<5	<20	<1	0.01	<10	186	<10	<1	82
18	B-51 01	5	<0.2	4.71	5	20	<5	0.11	1	36	144	82	7.49	<10	4.37	2240	4	0.01	43	840	10	<5	<20	<1	0.01	<10	204	<10	<1	77
19	B-52 01	790	<0.2	4.81	20	30	<5	0.05	<1	47	194	212	7.58	<10	4.44	1784	<1	0.01	56	460	8	<5	<20	<1	<0.01	<10	244	<10	<1	83
20	B-53 01	15	<0.2	3.56	15	25	<5	0.06	1	33	154	68	5.82	<10	3.12	1317	1	0.01	45	600	8	<5	<20	<1	<0.01	<10	110	<10	<1	57

SHINEY MINERAL RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 2001-214 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	C-16 01	30	<0.2	3.27	5	30	<5	0.07	<1	35	117	383	6.61	<10	2.87	1619	<1	0.02	36	520	6	<5	<20	<1	<0.01	<10	142	<10	<1	57
22	C-16 01 A	105	<0.2	0.44	<5	<5	<5	5.89	1	26	72	923	6.84	<10	0.59	1642	2	0.05	30	50	6	<5	<20	58	<0.01	<10	158	<10	<1	28
23	C-17 01	120	<0.2	1.12	5	25	<5	0.04	<1	42	108	784	9.38	<10	0.76	2345	3	0.04	42	210	8	<5	<20	<1	<0.01	10	171	<10	<1	45
24	C-18 01	55	<0.2	1.95	<5	15	<5	0.94	<1	31	100	480	6.54	<10	1.61	1602	<1	0.04	37	280	8	<5	<20	3	<0.01	<10	118	<10	<1	48
25	C-19 01	10	<0.2	3.56	10	25	<5	0.05	<1	36	98	29	6.32	<10	2.90	1437	<1	0.02	34	460	6	<5	<20	<1	<0.01	<10	101	<10	<1	79
26	C-20 01	20	<0.2	3.46	15	40	<5	0.06	<1	36	105	126	6.35	<10	2.91	2020	<1	0.02	40	590	10	<5	<20	<1	<0.01	<10	145	<10	<1	161
27	C-21 01	25	<0.2	4.71	15	35	<5	0.11	<1	38	85	79	6.49	<10	4.27	2105	1	0.01	34	740	12	<5	<20	<1	<0.01	<10	140	<10	<1	134
28	C-22 01	15	<0.2	3.01	10	25	<5	0.15	<1	25	133	37	4.44	<10	2.59	846	<1	0.02	26	450	4	<5	<20	<1	0.05	<10	98	<10	<1	44
29	C-23 01	15	<0.2	2.63	<5	60	5	0.02	<1	33	182	52	6.18	<10	1.96	1353	3	0.02	50	510	8	<5	<20	<1	<0.01	<10	110	<10	<1	50
30	C-24 01	15	<0.2	3.71	10	60	<5	0.07	<1	30	271	51	5.12	<10	3.57	1046	<1	0.02	76	490	10	<5	<20	<1	0.01	<10	126	<10	<1	48
31	C-25 01	10	<0.2	4.86	25	20	<5	0.11	<1	35	326	27	5.99	<10	5.09	954	<1	0.02	104	400	12	<5	<20	<1	0.06	<10	174	<10	<1	53
32	C-26 01	10	<0.2	4.13	10	35	<5	0.14	<1	36	128	54	5.88	<10	3.87	997	<1	0.02	42	570	8	<5	<20	<1	0.07	<10	205	10	<1	50
33	C-27 01	10	<0.2	4.28	20	60	<5	0.11	<1	34	123	39	6.28	<10	3.40	916	<1	0.02	40	600	10	<5	<20	<1	0.03	<10	163	10	<1	48
34	C-28 01	15	<0.2	3.29	20	105	<5	0.02	1	39	94	64	7.18	<10	2.34	1551	1	0.02	40	510	4	<5	<20	<1	<0.01	<10	116	<10	<1	63
35	C-29 01 A	>1000	0.2	0.11	150	<5	<5	<0.01	<1	14	169	17	4.33	<10	0.02	124	2	<0.01	17	150	4	<5	<20	<1	<0.01	<10	15	<10	<1	9
36	C-29 01 B	10	<0.2	0.89	35	80	<5	0.02	1	42	99	89	8.07	<10	0.23	1814	1	0.02	43	770	<2	<5	<20	2	<0.01	<10	47	<10	<1	90
37	C-29 01 C	110	<0.2	0.62	135	40	<5	<0.01	1	41	183	71	6.31	<10	0.07	1262	4	0.02	105	460	52	<5	<20	<1	<0.01	<10	36	<10	<1	86
38	C-30 01	75	<0.2	1.40	65	65	<5	0.02	<1	51	103	102	8.35	<10	0.36	1378	2	0.04	92	680	8	<5	<20	2	<0.01	<10	70	<10	<1	116
39	C-31 01	10	<0.2	2.25	15	80	<5	0.01	1	41	202	59	7.39	<10	1.31	1406	<1	0.04	76	410	6	<5	<20	<1	<0.01	<10	127	<10	<1	89
40	C-32 01	15	<0.2	4.23	15	55	<5	0.06	<1	37	114	69	7.22	<10	3.11	1060	<1	0.02	47	350	16	<5	<20	<1	0.02	<10	199	<10	<1	70
41	C-33 01 A	20	<0.2	1.54	35	50	<5	<0.01	<1	42	102	53	7.36	<10	0.67	1457	<1	0.02	59	550	6	<5	<20	<1	<0.01	<10	76	<10	<1	71
42	C-33 01 B	795	0.4	0.09	175	15	<5	<0.01	1	7	141	52	4.20	<10	0.01	294	4	<0.01	12	130	6	<5	<20	<1	<0.01	<10	12	<10	<1	16
43	C-33 01 C	15	<0.2	1.35	25	50	<5	0.01	1	33	101	88	7.80	<10	0.48	1102	1	0.02	44	830	6	<5	<20	<1	<0.01	<10	58	<10	<1	59
44	C-34 01	10	<0.2	4.09	10	35	<5	0.09	<1	33	233	74	6.14	<10	3.42	1014	<1	0.01	78	520	18	<5	<20	<1	<0.01	<10	145	<10	<1	64
45	C-35 01	5	<0.2	4.35	15	30	<5	0.07	<1	36	286	54	6.11	<10	3.77	897	<1	0.01	89	440	14	<5	<20	<1	<0.01	<10	167	<10	<1	64
46	D-101	5	<0.2	4.03	5	5	<5	0.30	<1	37	97	49	6.47	<10	3.77	1099	<1	0.02	32	700	14	<5	<20	<1	0.17	<10	212	<10	<1	67
47	D-201	10	<0.2	3.98	15	10	<5	0.24	<1	39	105	57	6.33	<10	3.69	1123	<1	0.02	37	660	16	<5	<20	<1	0.16	<10	213	<10	<1	64
48	D-301	<5	<0.2	4.01	15	25	<5	0.08	<1	35	261	36	5.95	<10	3.75	1162	1	0.02	87	410	18	<5	<20	<1	0.06	<10	177	<10	<1	58
49	D-401	<5	<0.2	3.90	10	20	<5	0.05	<1	34	190	48	6.28	<10	3.36	1141	<1	0.02	56	390	12	<5	<20	<1	0.02	<10	175	<10	<1	44
50	D-401 A	<5	<0.2	1.95	10	100	<5	<0.01	<1	34	171	61	5.90	<10	1.15	1389	<1	0.02	75	660	8	<5	<20	<1	<0.01	<10	69	<10	<1	55
51	D-401 B	<5	<0.2	0.22	<5	<5	<5	<0.01	<1	4	185	22	1.37	<10	0.06	180	<1	<0.01	11	150	<2	<5	<20	<1	<0.01	<10	15	<10	<1	10
52	D-401 C	5	<0.2	1.91	25	40	<5	<0.01	1	36	123	49	6.55	<10	0.65	1022	2	0.02	55	780	6	<5	<20	<1	<0.01	<10	72	<10	<1	55
53	D-501	<5	<0.2	3.76	20	15	<5	0.17	<1	33	116	61	5.65	<10	3.33	999	<1	0.01	39	580	14	<5	<20	1	0.08	<10	158	<10	<1	57
54	D-601	5	<0.2	2.61	10	5	<5	0.33	<1	28	106	36	4.28	<10	2.46	694	<1	0.02	24	460	12	<5	<20	8	0.11	<10	89	<10	<1	61
55	D-701	5	<0.2	3.02	10	10	5	0.20	1	31	93	59	5.08	<10	2.65	939	<1	0.02	28	340	14	<5	<20	<1	0.10	<10	144	<10	<1	90

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
56	D-801	5	<0.2	2.81	10	20	<5	0.26	<1	29	134	83	4.58	<10	2.27	1115	1	0.02	32	360	14	<5	<20	5	0.12	<10	113	<10	<1	56
57	D-901	5	<0.2	4.03	15	50	<5	0.04	<1	40	308	48	6.12	<10	3.37	1411	<1	0.02	114	300	16	<5	<20	<1	0.03	<10	172	<10	<1	54
58	D-1001	10	<0.2	2.09	50	105	<5	<0.01	<1	46	122	81	7.36	<10	0.66	1553	<1	0.02	80	940	6	<5	<20	<1	<0.01	<10	67	<10	<1	66
59	D-1101	>1000	1.8	0.26	1480	<5	<5	0.02	3	43	129	234	>10	<10	0.02	180	6	<0.01	41	1180	84	<5	<20	<1	<0.01	20	178	20	<1	112
60	D-1201	15	<0.2	0.68	140	40	<5	0.01	<1	51	71	36	8.09	<10	0.07	1635	1	0.02	54	690	38	<5	<20	<1	<0.01	<10	31	<10	<1	92
61	D-1301	490	<0.2	0.47	80	30	<5	0.04	1	34	55	38	8.11	<10	0.06	797	2	0.02	19	1030	10	<5	<20	<1	<0.01	<10	21	<10	<1	36
62	D-1401	730	0.6	0.11	220	10	<5	<0.01	1	8	153	41	5.88	<10	0.04	191	2	<0.01	13	110	64	<5	<20	<1	<0.01	<10	12	<10	<1	77
63	D-1501	530	1.0	0.05	280	<5	<5	<0.01	<1	10	149	42	6.31	<10	<0.01	89	2	<0.01	14	90	22	<5	<20	<1	<0.01	<10	10	<10	<1	22
QC DATA:																														
Resplit:																														
1	B-36 01	80	<0.2	2.28	10	40	<5	0.05	<1	43	165	66	8.31	<10	1.87	1718	3	0.03	37	500	12	<5	<20	<1	<0.01	<10	215	<10	<1	40
36	C-29 01 B	55	<0.2	0.91	50	75	<5	0.02	<1	41	89	87	8.02	<10	0.24	1767	<1	0.02	41	810	4	<5	<20	<1	<0.01	<10	46	<10	<1	91
Repeat:																														
1	B-36 01	25	<0.2	2.36	10	40	<5	0.05	<1	42	140	68	8.09	<10	1.95	1690	4	0.03	36	510	8	<5	<20	1	<0.01	<10	213	<10	<1	39
10	B-44 01 A	15	<0.2	1.63	35	45	<5	<0.01	1	39	99	180	6.88	<10	0.72	1216	2	0.03	31	560	4	<5	<20	2	<0.01	<10	52	<10	<1	61
19	B-52 01	800	<0.2	4.96	15	25	<5	0.06	<1	48	200	218	7.78	<10	4.58	1824	<1	0.02	58	460	10	<5	<20	<1	0.01	<10	250	20	<1	86
36	C-29 01 B	15	<0.2	0.87	45	70	<5	0.02	<1	41	82	87	7.93	<10	0.23	1785	2	0.02	42	790	2	<5	<20	<1	<0.01	<10	46	10	<1	89
45	C-35 01	5	<0.2	4.40	25	30	<5	0.07	<1	36	290	54	6.17	<10	3.82	904	<1	0.01	88	430	14	<5	<20	<1	<0.01	<10	169	<10	<1	65
54	D-601	10	<0.2	2.59	10	5	<5	0.33	<1	28	105	36	4.27	<10	2.44	691	<1	0.02	23	480	10	<5	<20	6	0.12	<10	89	<10	<1	61
Standard:																														
GEO'01		125	1.2	1.48	50	130	<5	1.47	1	17	49	80	3.27	<10	0.84	631	<1	0.02	25	730	20	<5	<20	45	0.08	<10	64	<10	<1	76
GEO'01		125	1.0	1.47	60	135	<5	1.49	1	18	49	81	3.25	<10	0.84	641	<1	0.02	25	730	20	<5	<20	44	0.08	<10	62	<10	<1	76

FP/kk
df/214
XLS/01

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

Eco-Tech
LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 2001-214

SHINEY MINERAL RESOURCES
BOX 38
LIKELY, BC
V0L 1N0

2-Aug-01

No. of samples received: 63
Sample type: Rock
Project #: None Given
Shipment #: None Given
Samples submitted by: Shiney Mineral

ET #.	Tag #	Au (g/t)	Au (oz/t)
35	C-29 01 A	1.21	0.035
59	D-1101	1.93	0.056

QC DATA:

Standard:

STD-M	1.98	0.058

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

LS/01

SAMPLE SHIPMENT NOTICE

LAB. REPORT NO. _____

Date Received _____

Eco-Tech LABORATORIES LTD.

☐ 10041 East Trans Canada Hwy., Kamloops, B.C. Canada
V2C 6T4 • Telephone (604) 573-5700 • Fax (604) 573-4557

☐ Railway Street & 6th Avenue, P.O. Box 937, Stewart, B.C. Canada
V0T 1W0 • Telephone (604) 636-2580

☐ PRIORITY SERVICE (20 samples/24 hours)
(CHARGED AT 1.5 x LIST PRICE)

Samples submitted by: SHINEY MINERAL RESOUR

Client project number: _____

Purchase order number: _____

Shipment number: _____

No. Parcels in Shipment: _____

Total No. Samples: 50

Date Shipped: _____

Special Instructions: 30 Element ICP/Au chem, only

☐ Data Disk ☐ FAX Results to # ( ) _____ - _____

Number of Samples	Type	Sample Number	Geo Chem Trace Level (ppm)	Assay Ore Grade (%)	Elements to be analyzed								Multi Element			
					Au	Ag	Cu	Pb	Zn				30 ELEM. ICP	24 ELEM. ICP	WHOLE ROCK	
5	ROCK	No. 23755-23804				✓										

Coarse Reject (Free storage for 30 days)

- ☐ Return/collect after analysis
- ☐ Return/collect after 30 days
- ☐ Discard after 30 days
- ☐ Store after 30 days (Current Charges Apply)

*IF NOT MARKED, REJECT IS DISCARDED AFTER 30 DAYS.

Pulp (Free Storage for 90 days)

- ☐ Return/collect after analysis
- ☐ Return/collect after 90 days
- ☐ Discard after 90 days
- ☐ Store after 90 days (Current Charges Apply)

* IF NOT MARKED, PULP IS DISCARDED AFTER 90 DAYS.

Original
☒ Results ☒ Invoice

Company: SHINEY MINERAL RESOURCES

Street: BOX 38

City: LIKELY, B.C. P. Code: V0L 1N0

Attention: SHERAN PATERSON

☐ Fax: ( ) _____

Copy
☐ Results ☐ Invoice

Company: _____

Street: _____

City: _____ P. Code: _____

Attention: _____

☐ Fax: ( ) _____

ORIGINAL - Lab Copy CARBON - Field Copy

Page _____ of _____

16-Nov-01

ECO-TECH LABORATORIES LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2001-397

SHINEY MINERAL RESOURCES
BOX 38
LIKELY, BC
V0L 1N0

ATTENTION: SHERAN PATERSON

No. of samples received: 50
Sample type: Rock
Project #: None Given
Shipment #: None Given
Samples submitted by: Shiney Mineral

Values in ppm unless otherwise reported

Et #.	Tag#	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	23755 A54-01	15	<0.2	3.04	<5	70	<5	0.34	<1	38	107	26	5.52	20	2.50	844	<1	0.01	44	700	14	<5	40	15	0.13	<10	95	<10	8	51
2	23756 A55-01	<5	<0.2	3.80	<5	40	<5	0.72	<1	44	87	10	4.59	10	3.59	817	3	<0.01	55	530	18	<5	60	24	0.22	<10	86	<10	2	47
3	23757 A56-01	<5	<0.2	3.53	<5	35	<5	0.69	<1	43	79	25	4.48	10	3.41	744	2	<0.01	43	530	18	<5	60	21	0.25	10	72	<10	1	39
4	23758 A57-01	5	<0.2	3.25	<5	35	<5	0.77	<1	42	77	38	3.97	10	3.16	684	4	<0.01	37	370	18	<5	60	25	0.26	<10	86	<10	1	35
5	23759 A58-01	15	<0.2	4.14	<5	50	<5	0.51	<1	51	74	59	5.33	10	4.07	824	3	<0.01	48	260	18	<5	80	23	0.26	<10	207	<10	3	36
6	23760 A59-01A	50	<0.2	1.19	370	60	<5	0.05	<1	35	67	68	>10	30	0.75	451	<1	0.02	43	660	10	5	60	6	0.01	10	147	<10	5	59
7	23761 A59-01B	755	<0.2	0.05	315	35	<5	<0.01	<1	11	159	15	5.65	10	0.10	78	<1	<0.01	14	80	8	<5	<20	3	<0.01	<10	10	<10	<1	7
8	23762 A59-01C	60	<0.2	2.24	50	90	<5	0.04	<1	47	98	58	7.74	20	1.17	1217	<1	<0.01	41	510	10	<5	40	6	0.01	20	113	<10	9	59
9	23763 A60-01	25	<0.2	4.23	5	85	<5	0.48	1	49	118	49	7.49	20	3.50	1357	<1	0.01	54	650	18	<5	60	12	0.15	10	217	<10	13	75
10	23764 A61-01	15	<0.2	4.71	<5	90	<5	0.31	<1	47	115	51	7.94	20	3.78	1332	<1	<0.01	47	690	18	<5	80	12	0.14	20	238	<10	20	70
11	23765 A62-01	15	<0.2	4.46	<5	110	<5	0.20	<1	45	97	63	8.16	30	3.31	1114	<1	0.01	43	690	18	<5	80	8	0.10	10	251	<10	25	63
12	23766 A63-01	10	<0.2	2.30	<5	120	<5	0.25	<1	20	66	22	4.99	20	1.51	502	<1	0.03	15	1370	10	<5	40	10	0.02	<10	110	<10	21	22
13	23767 A64-01	10	<0.2	2.28	<5	90	<5	0.37	<1	26	65	67	4.66	20	1.60	665	<1	0.03	16	1390	12	<5	40	9	0.06	<10	98	<10	20	22
14	23768 A65-01A	100	<0.2	1.23	85	90	<5	0.02	<1	45	91	49	8.22	20	0.30	707	<1	0.02	42	510	40	<5	40	4	<0.01	10	91	<10	13	108
15	23769 A65-01B	100	0.6	0.09	50	15	<5	<0.01	<1	8	184	67	2.03	<10	0.03	189	2	<0.01	7	70	16	5	<20	<1	<0.01	<10	11	<10	2	25
16	23770 A66-01	105	<0.2	2.23	35	100	<5	0.03	<1	51	109	60	9.59	30	1.18	1279	<1	0.01	50	790	36	<5	80	9	0.01	10	133	<10	11	173
17	23771 A67-01	35	<0.2	3.87	<5	50	<5	0.32	<1	42	111	103	5.88	20	3.56	1012	<1	0.02	39	330	16	<5	60	13	0.18	<10	171	<10	4	44
18	23772 G105-01	20	<0.2	4.37	<5	50	<5	0.13	<1	38	129	46	6.54	20	3.83	856	<1	0.01	53	320	18	<5	60	4	0.01	<10	210	<10	8	61
19	23773 G106-01	30	<0.2	4.65	<5	55	<5	0.13	<1	37	151	39	6.00	20	4.58	824	<1	0.01	61	250	20	<5	80	5	0.01	10	213	<10	10	52
20	23774 G107-01	25	<0.2	1.59	20	70	<5	0.16	<1	28	448	43	4.34	40	1.24	677	<1	<0.01	108	270	18	<5	<20	8	<0.01	<10	63	<10	13	59

Et #.	Tag#	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	23775 G108-01	10	<0.2	0.50	<5	45	<5	0.02	<1	14	79	27	3.46	40	0.14	272	<1	<0.01	25	240	10	<5	<20	<1	<0.01	<10	10	<10	13	64
22	23776 G109-01	5	<0.2	1.29	<5	65	<5	0.09	<1	20	83	37	4.23	50	0.58	546	<1	<0.01	41	390	12	<5	<20	5	<0.01	<10	13	<10	18	86
23	23777 G110-01	5	<0.2	1.25	5	65	<5	0.08	<1	22	71	35	4.72	50	0.59	530	<1	<0.01	42	400	14	<5	20	4	<0.01	<10	13	<10	18	94
24	23778 G134-01	20	<0.2	2.21	<5	80	<5	0.10	<1	26	103	51	4.39	40	1.07	580	<1	<0.01	43	450	16	<5	<20	4	0.11	<10	22	<10	18	81
25	23779 G135-01A	15	<0.2	1.24	10	80	<5	0.11	<1	21	87	32	3.61	40	0.49	672	<1	<0.01	36	690	12	<5	<20	5	0.02	<10	12	<10	20	62
26	23780 G135-01B	145	<0.2	0.19	25	15	<5	<0.01	<1	5	172	12	1.63	<10	0.06	92	2	<0.01	9	130	6	<5	<20	<1	<0.01	<10	4	<10	3	12
27	23781 G136-01	35	<0.2	1.23	<5	65	<5	0.03	<1	15	133	22	2.92	30	0.46	853	<1	<0.01	28	340	26	<5	<20	4	0.01	<10	12	<10	13	54
28	23782 G137-01	15	<0.2	1.73	5	65	<5	0.14	<1	16	126	14	3.46	40	0.81	807	<1	<0.01	24	520	26	<5	<20	11	0.06	<10	18	<10	21	68
29	23783 H144-01	45	<0.2	0.42	60	45	<5	0.05	<1	9	166	36	3.21	30	0.12	271	2	<0.01	16	250	26	<5	<20	3	<0.01	<10	6	<10	12	45
30	23784 H145-01A	25	<0.2	0.35	20	55	<5	0.04	<1	15	102	36	4.40	50	0.08	208	<1	<0.01	29	320	10	<5	<20	6	<0.01	<10	4	<10	12	65
31	23785 H145-01B	25	<0.2	0.12	10	20	<5	0.01	<1	4	157	11	1.59	<10	0.04	348	2	<0.01	7	50	<2	<5	<20	<1	<0.01	<10	2	<10	3	12
32	23786 H145-01C	35	<0.2	0.30	15	45	<5	0.02	<1	13	112	21	2.89	40	0.06	531	<1	<0.01	20	240	8	<5	<20	1	<0.01	<10	3	<10	12	36
33	23787 H146-01	20	<0.2	0.40	<5	55	<5	0.05	<1	13	108	16	2.39	30	0.08	446	<1	<0.01	21	250	12	<5	<20	5	<0.01	10	11	<10	15	52
34	23788 H167-01	470	<0.2	1.82	5	55	<5	0.11	<1	13	108	9	3.19	30	1.01	751	1	<0.01	25	240	26	<5	<20	9	0.07	<10	8	<10	9	69
35	23789 H168-01	30	<0.2	2.19	<5	75	<5	0.16	<1	17	114	23	3.50	30	1.24	758	2	<0.01	25	210	44	<5	<20	13	0.17	<10	<1	<10	6	74
36	23790 H169-01	15	<0.2	1.43	<5	65	<5	0.07	<1	15	111	22	2.40	20	0.63	518	3	<0.01	19	190	22	<5	<20	9	0.14	<10	<1	<10	6	48
37	23791 H170-01	5	<0.2	1.31	<5	55	<5	0.09	<1	11	129	27	2.14	20	0.53	330	3	0.01	20	250	70	<5	<20	6	0.10	<10	<1	<10	7	42
38	23792 H171-01	60	<0.2	0.08	80	15	<5	<0.01	<1	5	153	4	2.02	<10	0.04	74	<1	<0.01	7	90	<2	<5	<20	<1	<0.01	<10	1	<10	2	7
39	23793 H172-01	175	<0.2	0.09	250	25	<5	<0.01	<1	7	162	4	4.82	20	0.06	148	2	<0.01	14	220	2	<5	<20	<1	<0.01	<10	2	<10	5	11
40	23794 H173-01	40	<0.2	0.02	45	5	<5	<0.01	<1	4	165	8	1.73	<10	0.02	115	<1	<0.01	8	130	<2	<5	<20	<1	<0.01	<10	<1	<10	1	6
41	23795 H174-01	25	<0.2	0.76	30	65	<5	0.02	<1	16	93	18	3.86	60	0.25	509	<1	<0.01	29	370	6	<5	<20	5	<0.01	10	7	<10	13	43
42	23796 H175-01	25	<0.2	0.69	15	55	<5	0.03	<1	20	105	42	3.86	50	0.36	404	<1	<0.01	35	320	4	<5	<20	2	<0.01	<10	5	<10	10	61
43	23797 H176-01A	90	<0.2	0.03	25	10	<5	<0.01	<1	3	184	4	1.33	<10	0.02	66	<1	<0.01	4	80	<2	<5	<20	<1	<0.01	<10	1	<10	<1	5
44	23798 H176-01B	10	<0.2	0.42	15	45	<5	<0.01	<1	11	127	10	3.12	40	0.05	218	<1	<0.01	18	220	10	<5	<20	1	<0.01	<10	5	<10	10	56
45	23799 H177-01A	40	<0.2	0.02	135	20	<5	<0.01	<1	13	174	7	3.37	<10	0.04	67	<1	<0.01	17	100	<2	<5	<20	3	<0.01	<10	<1	<10	<1	10
46	23800 H177-01B	155	<0.2	0.27	140	40	<5	<0.01	<1	9	126	9	4.79	40	0.06	82	1	<0.01	16	300	4	<5	<20	2	<0.01	<10	3	<10	7	21
47	23801 H178-01A	30	<0.2	0.12	40	15	<5	<0.01	<1	4	178	4	1.34	20	0.02	72	<1	<0.01	6	120	<2	<5	<20	<1	<0.01	<10	2	<10	3	7
48	23802 H178-01B	60	<0.2	0.34	100	40	<5	<0.01	<1	9	108	7	4.62	40	0.06	113	1	<0.01	22	340	4	<5	<20	1	<0.01	<10	4	<10	12	16
49	23803 H179-01A	<5	<0.2	0.08	25	10	<5	<0.01	<1	2	181	3	0.81	<10	0.01	54	<1	<0.01	2	70	<2	<5	<20	2	<0.01	<10	2	<10	2	5
50	23804 H179-01B	20	<0.2	0.47	30	45	<5	<0.01	<1	14	89	25	2.98	40	0.08	255	<1	<0.01	22	240	6	<5	<20	4	<0.01	<10	4	<10	10	39

Et #.	Tag#	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																														
Resplit:																														
1	23755 A54-01	15	<0.2	3.08	10	65	<5	0.34	<1	39	113	28	5.67	20	2.53	854	<1	0.01	46	720	14	<5	60	12	0.13	10	105	<10	8	52
36	23790 H169-01	20	<0.2	1.42	<5	60	<5	0.07	<1	15	115	21	2.37	20	0.62	512	3	<0.01	19	190	20	<5	<20	6	0.14	<10	<1	<10	5	48
Repeat:																														
1	23755 A54-01	10	<0.2	3.03	5	65	<5	0.32	<1	38	106	26	5.55	20	2.51	848	<1	0.01	45	710	14	<5	40	13	0.12	<10	118	<10	7	51
10	23764 A61-01	25	<0.2	4.75	<5	90	<5	0.30	<1	47	116	51	7.98	20	3.82	1345	<1	<0.01	48	690	22	<5	80	10	0.14	10	241	<10	21	71
19	23773 G106-01	40	<0.2	4.55	<5	60	<5	0.14	<1	39	155	38	6.22	20	4.46	847	<1	0.01	64	270	36	<5	80	8	0.01	<10	211	<10	11	57
36	23790 H169-01	15	<0.2	1.40	<5	60	<5	0.07	<1	15	105	21	2.33	20	0.61	502	3	<0.01	18	190	22	5	<20	6	0.13	<10	<1	<10	6	47
Standard:																														
GEO'01		130	1.0	1.75	55	160	<5	1.56	<1	20	54	91	3.56	20	0.99	673	<1	0.02	24	760	24	<5	<20	60	0.11	<10	72	<10	13	72
GEO'01		130	1.0	1.69	55	150	<5	1.51	<1	19	52	87	3.48	20	0.95	655	<1	0.02	25	720	22	10	<20	59	0.11	<10	66	<10	12	70

FP/kk
df/395
XLS/01

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

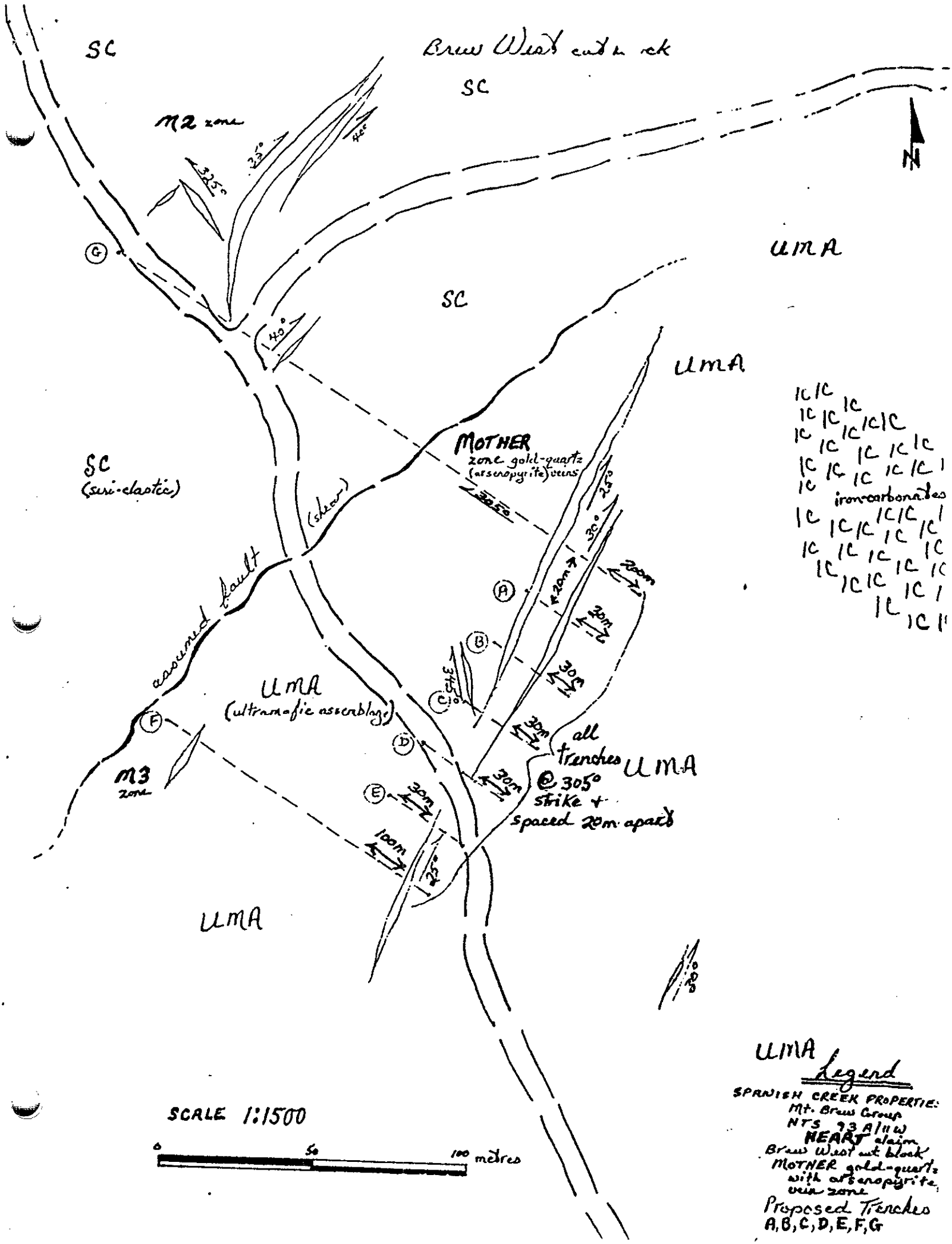
*

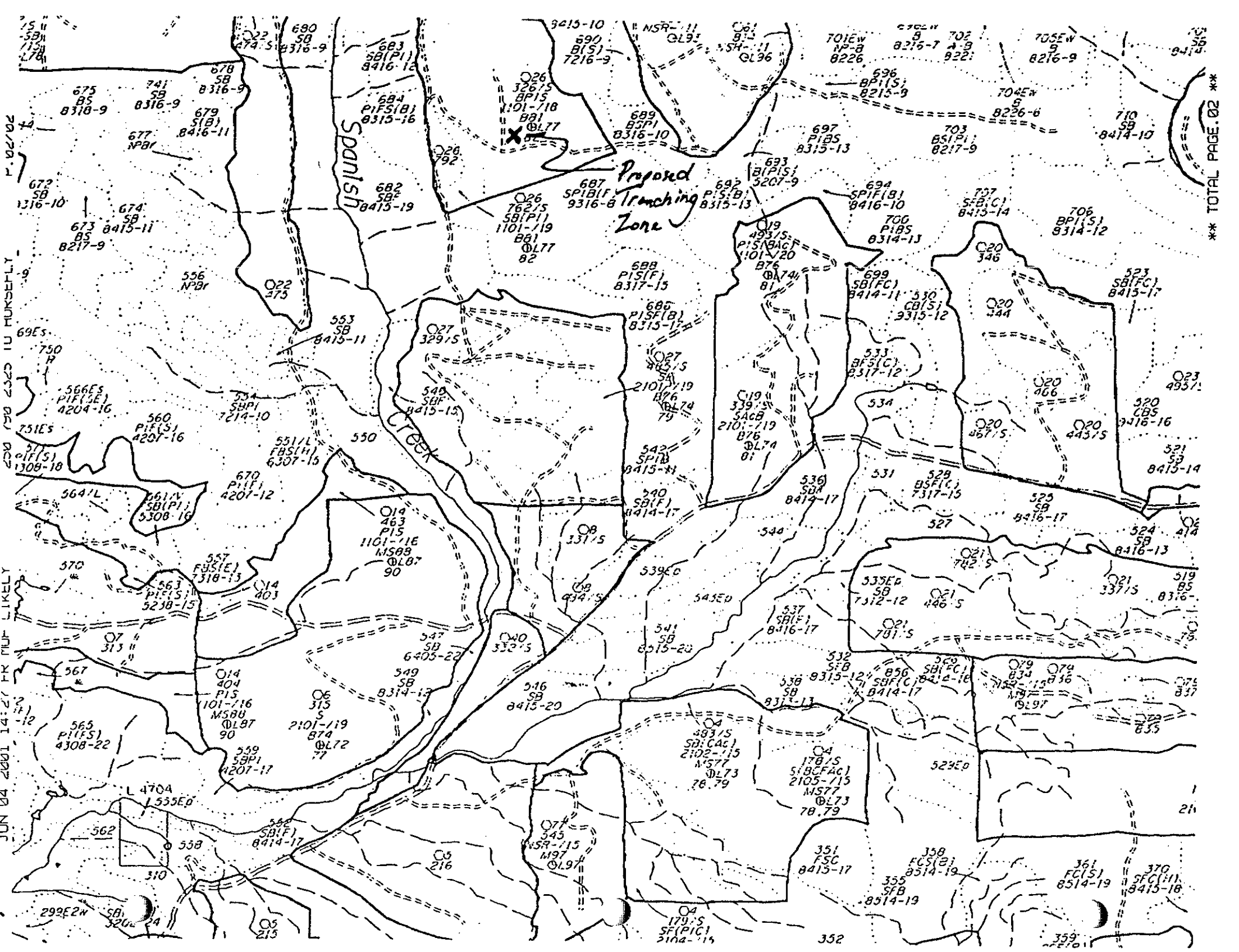
Rock chip samples from A, G, H Trench cuts; Brew West cut block; HEART claim; NTS 93 A/11 W; submitted to ECO-TECH Labs for 30 elem. ICP & Au chem., Nov. 7/01.

Lab No.	Field No.
23755	A 5401
23756	A 5501
23757	A 5601
23758	A 5701
23759	A 5801
23760	A 5901 (a)
23761	A 5901 (b)
23762	A 5901 (c)
23763	A 6001
23764	A 6101
23765	A 6201
23766	A 6301
23767	A 6401
23768	A 6501 (a)
23769	A 6501 (b)
23770	A 6601
23771	A 6701
23772	G10501
23773	G10601
23774	G10701
23775	G10801
23776	G10901
23777	G11001
23778	G13401
23779	G13501 (a)
23780	G13501 (b)
23781	G13601
23782	G13701

Lab No.	Field No.
23783	H14401
23784	H14501 (a)
23785	H14501 (b)
23786	H14501 (c)
23787	H14601
23788	H16701
23789	H16801
23790	H16901
23791	H17001
23792	H17101
23793	H17201
23794	H17301
23795	H17401
23796	H17501
23797	H17601 (a)
23798	H17601 (b)
23799	H17701 (a)
23800	H17701 (b)
23801	H17801 (a)
23802	H17801 (b)
23803	H17901 (a)
23804	H17901 (b)

Appendix 5

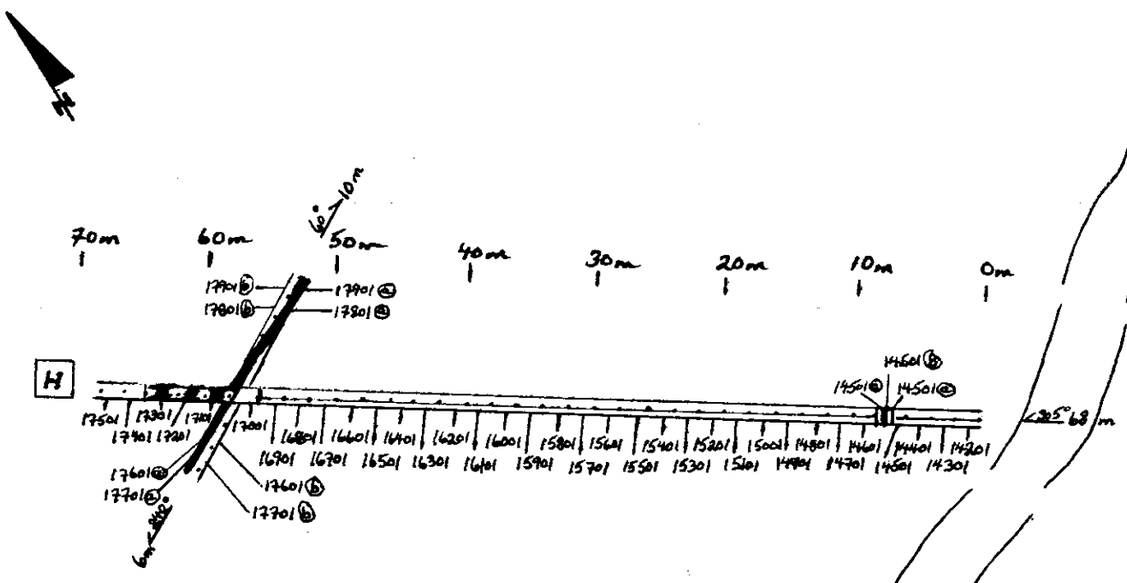

SC
Brew West cut block
SC
M2 zone
325°
23°
46°
N
G
UMA
SC
140°
UMA
MOTHER
zone gold-quartz
(arsenopyrite) veins
305°
25°
SC
(sili-clastics)
(shear)
assumed fault
A
1 @ 20m
20m
30°
20m
B
305°
C
305°
UMA
(ultramafic assemblage)
30m
all
trenches
@ 305°
strike +
spaced 20m apart
UMA
F
D
M3
zone
E
30m
100m
25°
UMA
IC IC
IC IC IC
IC IC IC IC IC
IC IC IC IC
IC IC IC IC IC I
IC
iron-carbonates
IC IC IC IC I
IC IC IC IC IC
IC IC IC IC IC
IC IC IC I
IC IC I
SCALE 1:1500
0
50
100 metres
UMA
Legend
SPANISH CREEK PROPERTIES
Mt. Brew Group
NTS 93 A/11 W
HEART claim
Brew West cut block
MOTHER gold-quartz
with arsenopyrite
vein zone
Proposed Trenches
A, B, C, D, E, F, G

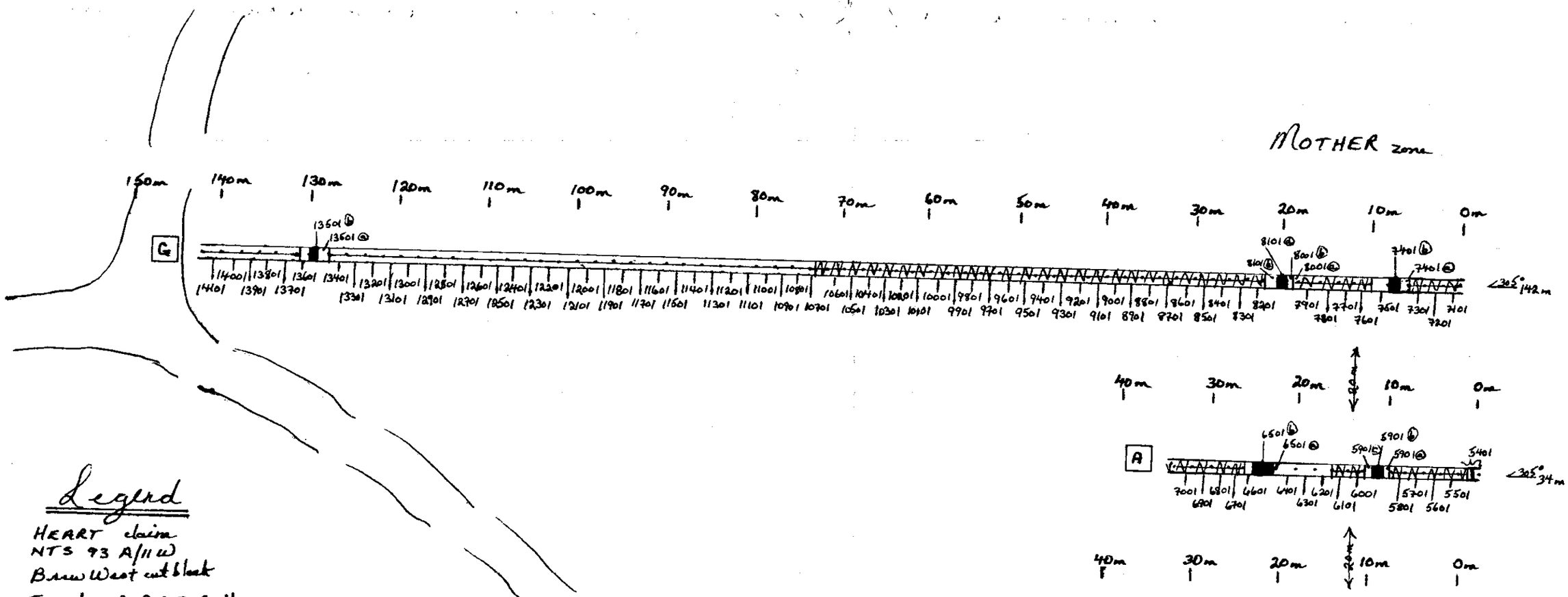

Spanish Creek
Proposed Trenching Zone
** TOTAL PAGE.02 **
JUN 04 2001 14:27 PR PUP LIKELY

Brew West cut block.

M-2 zone

MOTHER zone





Legend

HEART claim
NTS 93 A/11 W
Brew West cut block
Trenches: A, B, C, D, G, H
Trench - Rock Chip Sample Location Map
(chip samples over every 2 metres)

- UMA — ultramafic assemblage
- IA — iron (sulfide) rich
- MS — metasediments
- WR — wallrock adjacent to quartz vein
- QV — quartz vein

(Trenches strike @ 305°/MOTHER zone Trenches:
A, B, C, D & G are spaced 20 metres apart)
(Trench cuts: bucket-width, 1 metre depth)

26775
(1)

SCALE 1:500
0 10 20 30 metres

Road

By: Atherton Paterson

Bruce West cut block

Road

0m 10m 20m 30m 40m

40m 20°

1810 1830 1850 1870 1890 1910 1930 1950 1970 1990
1800 1820 1840 1860 1880 1900 1920 1940 1960 1980

I

J

K

L

Pb-11 zone

20m
10m
0m
16m 50°
24m 240°
18m
14m 218°

20601 20701 20501 20401 20301 20201 20101 20001
21101 20801 20901 21001 21201 21301 21401 21501
21801 21601 21701 21901 22001 22101 22201

Legend

HEART claim
NTS 93A/11W
Bruce West cut block
Trenches: I, J, K, L / Rock chip sample location map

- UMA ultramafic assemblage
- IA iron (sulphide) rich
- MS metasediments
- WR wallrock
- QV quartz vein

(Trench cuts; bucket width, 1 metre depth/ samples collected over 2 metre intervals)

SCALE 1:500

0 10 20 30 metres

By: Linda Peterson

HEART claim

L 7+00W L 6+00W L 5+00W L 4+00W L 3+00W L 2+00W L 1+00W L 0+00W

2+00N 1+00N 1+00S 2+00S

Log landing
Rd.
qtz. flt.
QV
0118
0121
0117
0122
0119
0123
IC mass
0120
SC
Cu 13 zone
grn. flt.
IC IC QV IC IC
Q B
0115
QB
Cu 13 @ B C Smp.
0114
0113
sk. tr.
0116
m-2 QV
UMA
Pb-11 QV
0112
0111
GS 0110
0107
IC pod 0109
0108
0106
300° QV
base station
BL
sk. tr.

SCALE 1:2000

0 50 100 150 metres

Legend

HEART claim
NTS 93 A/11 W
300° Reconnaissance Grid with rock sample locations
= QV or QB quartz vein or blowout
× qtz. flt. quartz float
— grn. flt. granite float
UMA ultramafic assemblage
SC semi-elastic
=== road
--- skid trail
GS greenstone

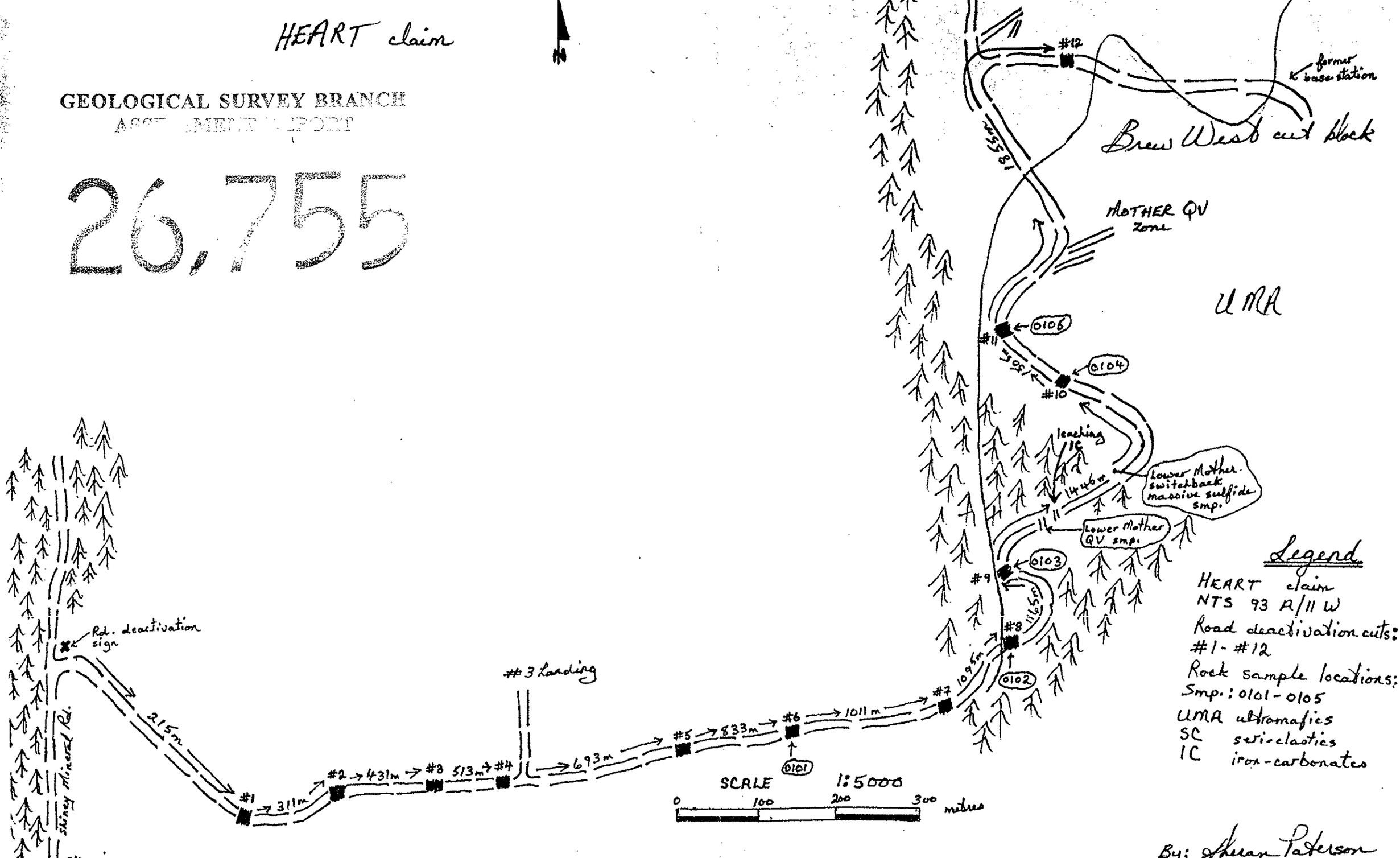
GEOLOGICAL SURVEY BRANCH

26755

HEART claim

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

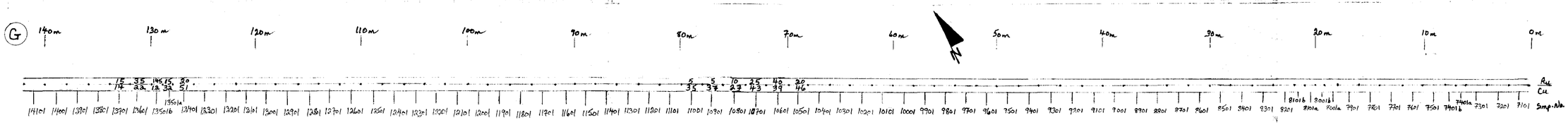
26,755

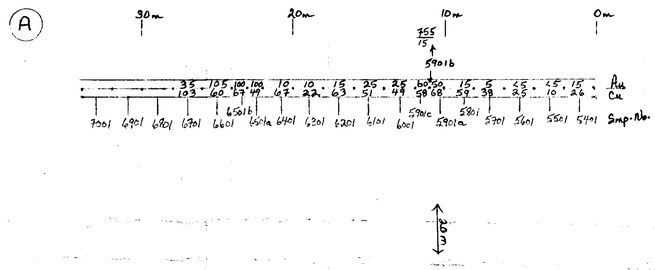


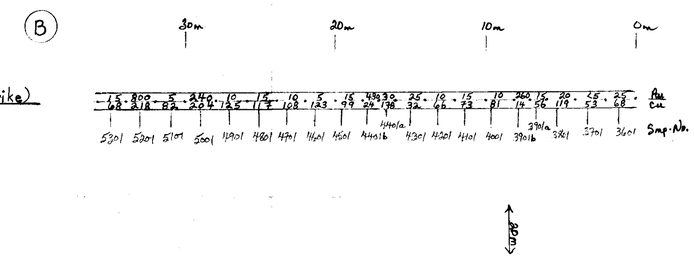
Legend

HEART claim
NTS 93 A/11 W
Road deactivation cuts:
#1 - #12
Rock sample locations:
Smp.: 0101 - 0105
UMA ultramafics
SC semi-clastics
IC iron-carbonates

By: Sheran Paterson







Legend

SPANISH CREEK PROPERTIES
NTS 93 A/11 W

HEART claim, HOBSON GROUP

Brow West mineral block

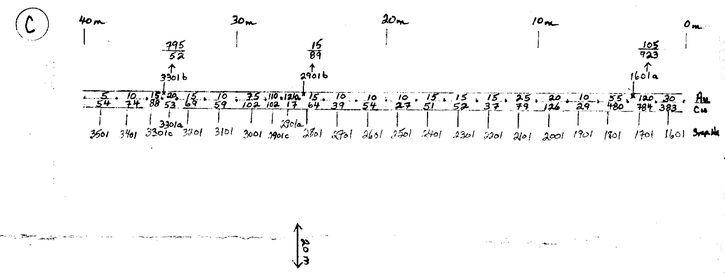
MOTHER gold-quartz-carbonate shear zone

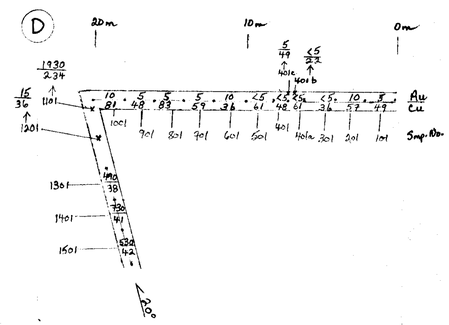
Numerical Plots (rock geochemistry)

Au gold in ppb
Cu copper in ppm

A, B, C, D, G Trench cuts

305° (trenches strike)



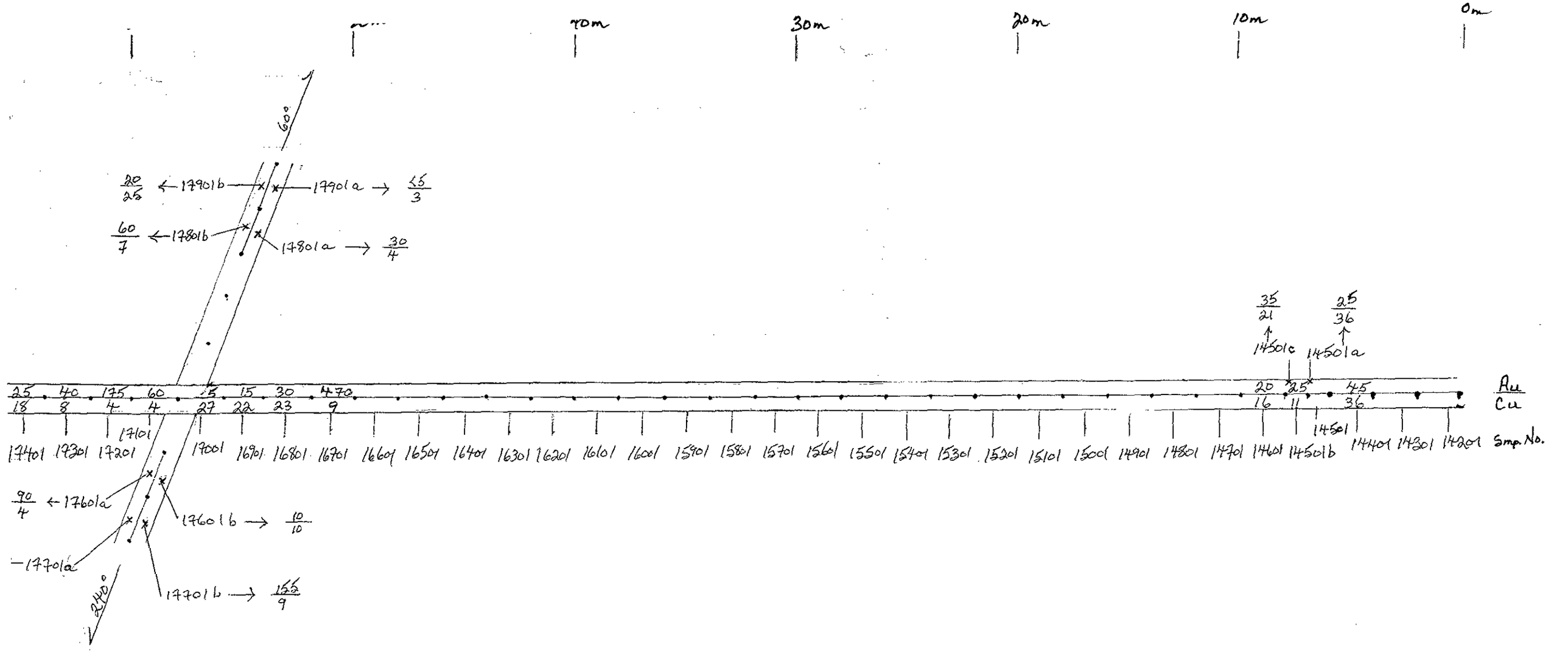


SCALE 1:200

0 2 4 6 8 10 20 metres

26755
(2)

By: Thelma Pakenham



PERTIES

N

GROUP

C

Carbonate

rock geochemistry)

SCALE 1:200

0 2 4 6 8 10 20 metres