

1996

SPANISH CREEK PROPERTIES

GEOCHEMISTRY

Assessment Report

24839

SPANISH CREEK PROPERTIES

1996 GEOCHEMISTRY REPORT

Hobson 1, Hobson 2, Hobson 3, Teds 2 claims

Cariboo Mining Division

NTS 93 A\11

Lat. $52^{\circ} 40' 00''$, $52^{\circ} 31' 00''$
Long. $121^{\circ} 26' 00''$, $121^{\circ} 11' 00''$

Owner : Merle Matherly, Sheran Paterson
Box 63,
Forest Grove, B.C.
VOK 1M0

Report by : Sheran Paterson
October 23, 1996

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

24,839

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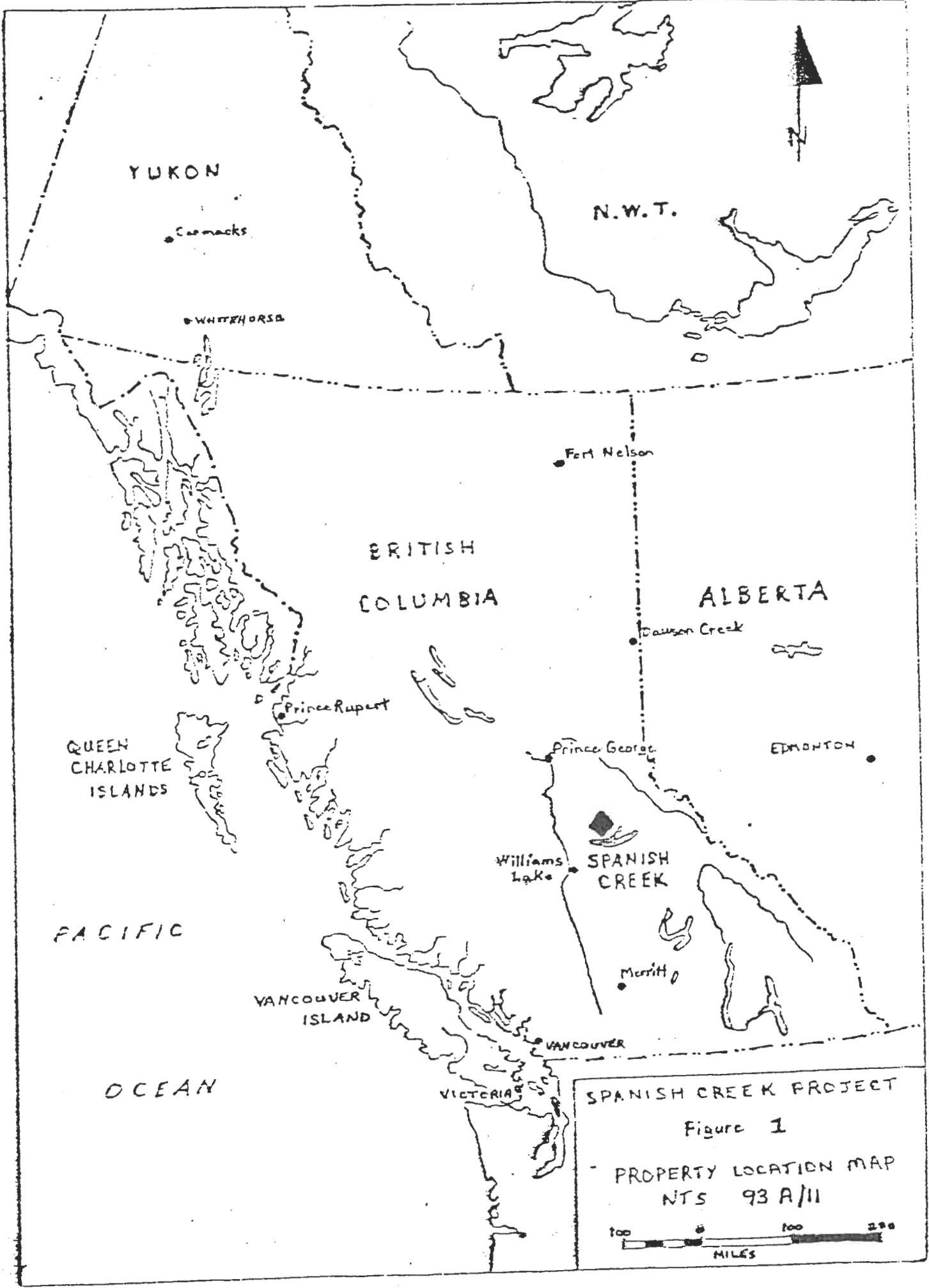
1	- Brew West: Geologic map with rock sample locations; 1:1,500
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The Spanish Creek Properties constitute a 1,050 hectare Gold prospect located in the Cariboo-Quesnel Gold Belt, 110 kilometers northeast from the city of Williams Lake in north-central British Columbia. Four contiguous claims: Hobson 1, Hobson 2, Hobson 3 and Teds 2 are road accessible, and almost entirely clear-cut from logging activities.

Geologic setting, formed by the Eureka Thrust Fault, defines a boundary between two major tectonic plates, Intermontane and Omineca belts. The project area lies within Quesnel Terrane (triassic, jurassic) pelitic and volcanic rock of the Intermontane belt.

Earlier exploration work identified anomalous gold, silver, copper, lead and zinc from rock and soil geochemistry. Geophysics, Self-Potential method, aided in recognition of sulphide mineralization in underlying bedrock. Cumulative data plus recent, 1996, geochemical information supports extensive mesothermal alteration. Quartz blowouts in greenstone indicate presence of a nearby hidden intrusive. Copper-gold and arsenic-gold quartz veins favour greenstone, and silver with galena quartz veins favour meta-sediments. Reference : Assessment Reports: No. 17751, 17912-1988\ No. 19415-1989\ No. 21610-1991\ No. 22437-1992\ No. 23212-1993\ No. 23735-1994\ No. 24254-1995.

Proposed exploration 1997, should be designed to reflect potential economic gold concentrations over a large surface area. Machine trenching with follow-up geochemistry, and drilling is recommended for the properties. Brew West area, Hobson 2 claim, is a priority target for future exploration.



SPANISH CREEK PROJECT
 Figure 1
 PROPERTY LOCATION MAP
 NTS 93 A/11
 0 100 200
 MILES

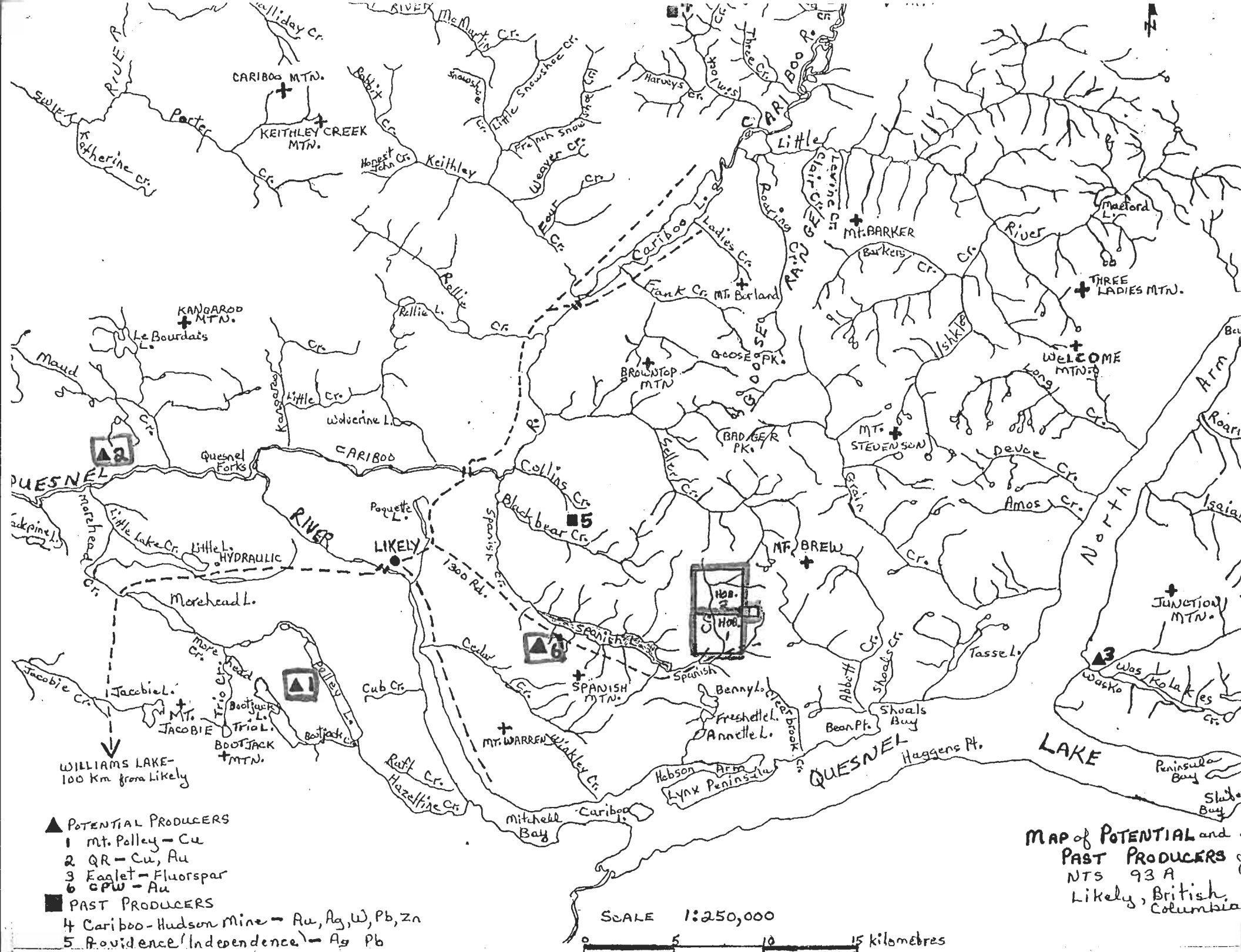
2.0 REGIONAL HISTORY :

3

The project area is situated near present-day, major economic deposits: Mt. Polley Mine, copper-gold; located 20 kilometers southwest\ OR Mine, gold; located 30 kilometers northwest\ Frasergold (Eureka Peak), gold; 50 kilometers southeast. (Fig. 2)

Recent placer mining activity exists in the area; most known tributaries are worked to this day. Actively worked placer claims are located at the southern portion of the project properties.

This area boasts hardrock and placer mining history dating as early as mid 1800's. Some old mining sites existed; near the Spanish Creek Properties: Cariboo-Hudson Mine (Au, Ag, W, Pb, Zn)\ Providence, Independence (Ag, Pb)\ Bullion Pit (Au)\ Cedar Creek (Au)\ Golden Horn (Au)\ Kitchener (Au).



▲ POTENTIAL PRODUCERS

- 1 Mt. Polley - Cu
- 2 QR - Cu, Au
- 3 Eagle - Fluorspar
- 6 CPW - Au

■ PAST PRODUCERS

- 4 Cariboo-Hudson mine - Au, Ag, W, Pb, Zn
- 5 Providence/Independence - Ag, Pb

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

SCALE 1:250,000

0 5 10 15 kilometres

Gold is the primary mineralization targeted on these properties, and strong emphasis is placed on contacts between rock units (et al. Geology of the Eureka Peak and Spanish Lake Map Areas, British Columbia\ By: Mary Ann Bloodgood\ paper 1990-3).

Preliminary study of Spanish Creek area, 1981 to 1983, led to discovery of one zone, #3 Landing. Rock specimens collected from vein quartz-with-galena in sericite schist, revealed notable silver, lead, and gold.

Further investigation, 1988, discovered mineralization in greenstone and sericite schist and phyllite rock units over various locations on the properties. Significant copper, silver, lead, and gold values were determined from analyzed rock specimens.

Extensive gold, silver, copper, lead and zinc in-soil anomalies were identified after completing over four square kilometers of geo-chemistry, 1989. The west-trending survey was conducted in the northern portion of Hobson 2 claim.

Mapping and rock sampling, 1991, outlined two zones in Hob.N. (212, 217). These mineralized clusters, quartz veins in greenstone carried significant gold, silver and copper values. Follow-up soils over one zone showed copper mineralization to exceed one hectare.

Mapping and rock sampling, 1992, outlined a significant alteration zone, Brew West. This zone is host to gold bearing quartz systems.

Mapping and rock sampling, 1993, outlined another gold bearing quartz system within Brew West zone. A second sizable alteration, found along the W. Upper flank of Spanish Creek is believed to be a continuation of the Brew West system.

Reconnaissance geophysics, Self-Potential method, 1994, located sulphide mineralization in underlying bedrock.

Self-Potential geophysics, 1995, expanded Brew West zone. The acquired data appears to support the geology and all results from previous work.

Rock geochemistry conducted over one square kilometer, 1996, resulted in discovery of quartz blowout networks carrying anomalous gold-copper values; found in greenstone believed to be associated with mesothermal alteration: Brew West zone.

The 1996 work program described in this report was conducted during the period between July 15, 1996 to August 30, 1996.

4.0 LOCATION and ACCESS :

6

Spanish Creek Properties, located 110 kilometers northeast from Williams Lake, are 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 two drainage systems that flow into Spanish Lake and carry gold. The claims lie on east and west flanks of Upper Spanish Creek between Mount Brew and Blackbear Mountain. This area is moderate relief and almost entirely logged providing 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 Guesnel Lake. This region is fairly mountainous terrain of moderate relief with elevations averaging 1200 to 1600 metres; an exception is Mount Brew whose height reaches up to 2000 metres.

This 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 cut from logging activities.

Reasonable weather conditions for exploration work may be expected from end of May to end of October. Winter snow pack can occasionally reach three to five meters.

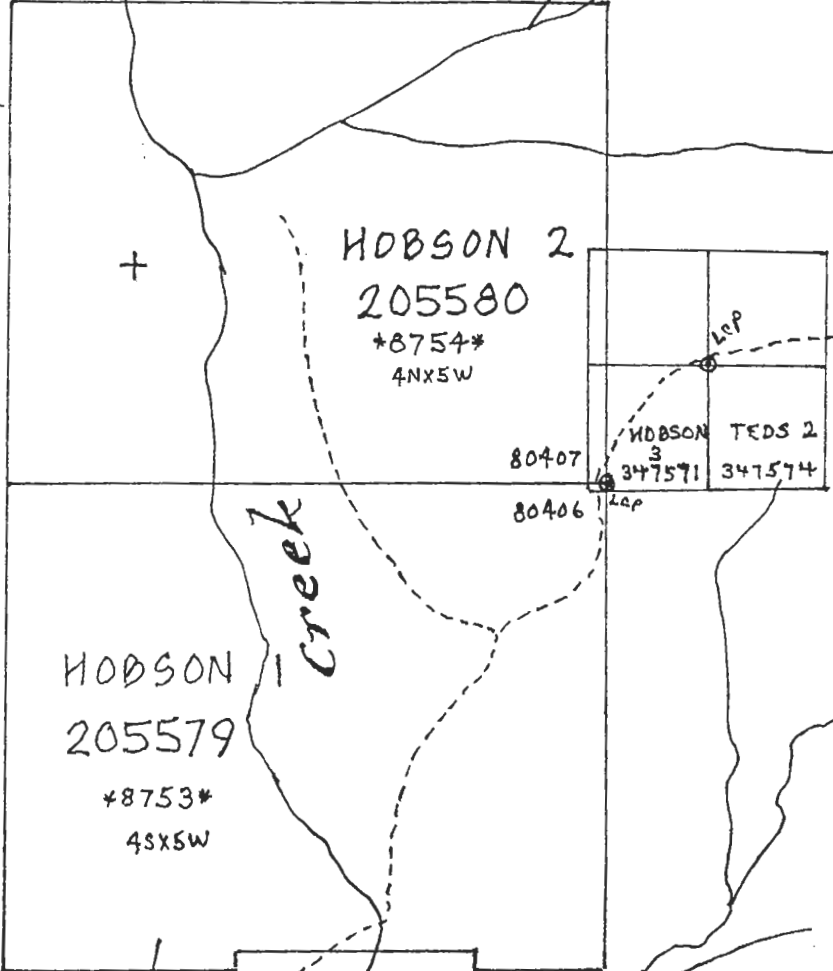
6.0 CLAIM STATUS :

The prospect presently consists of four contiguous claims, totalling 42 units, 1050 square hectares. (Fig. 3)

Table 1 - Mineral Claim Schedule

7

Claim Name	Units	Record No.	Yr. Staked
Hobson 1	20	8753	Oct. 28/87.
Hobson 2	20	8754	Oct. 28/87.
Hobson 3	1	347571	June 26/96.
Teds 2	1	347574	June 26/96.



Spanish

LEGEND
SPANISH CREEK
PROPERTIES
Hobson 1, 2, 3 + Teds 2
claims
NTS 93A/11W
CLAIMS MAP

SCALE 1:31,680

*Benny
1.*

Freshette

The Spanish Creek project area lies within Quesnel Terrane (Triassic, Jurassic) pelitic and volcanic rock of the Intermontane belt, where the Eureka Thrust Fault defines a boundary between Omineca, Barkerville Terrane, and Intermontane tectonic belts. Mineralization appears to be associated with sulphides and occurs massive, disseminated and in quartz veins. (Fig. 4)

8.0 PROPERTY GEOLOGY :

Rock units identified :

- greenstone : Slide Mtn. Crooked Amphibolites exceed 4 square kilometers\ contacts phyllite and sericite schists\ has several facies: chlorite schist, with amphibolites, calc-silicate with epidote veins, massive (meta-diorite)\ copper-rich, much carbonated\ a very large iron carbonate alteration halo occurs in this unit\ commonly consists of quartz veins and lenses bearing copper-gold\ gold-arsenic quartz veins also occur in this unit
- sericite schist : contacts greenstone which is defined by iron carbonate mass with malachite, and/or serpentinite\ commonly contains quartz veins and lenses bearing galena with silver & often anomalous gold\ occurs along east and west flanks of Upper Spanish Creek
- black phyllite : Triassic, Cariboo series\ four units are identified\ contacts greenstone & green volcanic breccia\ commonly contains quartz veins and lenses\ occurs on west flank of Upper Spanish Creek, Blackbear Mtn.
- volcanic breccia : trends northwest & occurs in west portion of properties\ green, marine origin
- iron carbonate mass : with malachite\ occurs at contacts of major rock units
- serpentinite : greasy, flaky, pale green to white\ occurs at contacts between greenstone & sericite schists
- ultramafics : amphibolites - green, greasy, with carbonate phenocrysts\ occurs at various places within the greenstone unit - Brew West & Gary B. zones\ often has large pyrite cubes\ malachite occurs in this rock (south end, 5B road)
- limestone : occurs for several hundred meters in Bysouth zone, Brew W.\ fairly low grade metamorphism
- feldspar-quartz porphyry : occurs as dykes in altered sericite facies, W. Spanish Creek along 5B road; Gary B. zone

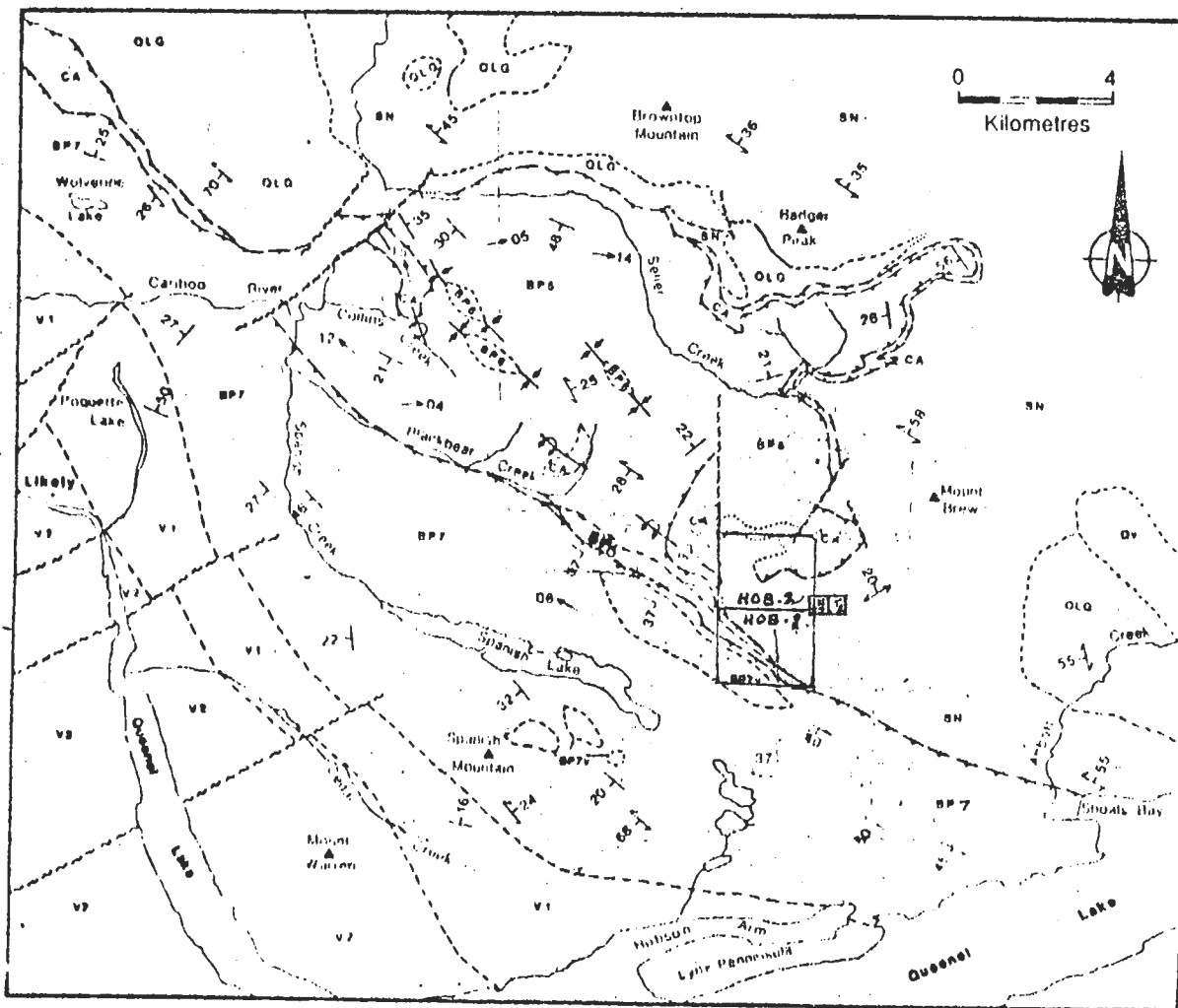


Figure 1-12-2. Generalized geologic map of the Spanish Lake area. (1961)

LEGEND

- QUATERNARY { Qv Quaternary volcanics
- QUESNEL TERRANE
- Middle Triassic to Early Jurassic
- { V2 Volcanic flows and volcanic breccia
- { V1 Volcanic wacke
- MESOZOIC { BP7 Banded slates and luffs with minor limestone (v = volcanics)
- { BP6 Graphitic phyllites with interbedded quartz sandstone
- { BP5 Silty slates and phyllite
- Mississippian to early Permian
- PALEOZOIC { CA Crooked Amphibolite
- BARKERVILLE TERRANE
- Late Devonian to Early Mississippian
- PALEOZOIC { OLG Quaesnel Lake gneiss
- Hartzynian and Younger
- PROTEROZOIC- EARLY PALEOZOIC { SN Snowshoe Group

- S₀ (bedding).....
- S₁ (Regional foliation).....
- L₁.....
- L₂.....

Additional data compiled from Rees (1987), Struik (1983) and Bailey (this volume).

NTS 93 A

* Hobson 142 claims / Hobson 3 + Teds 2 claims

Brew West

Brew West is located in the southeast corner of Hobson 2 claim, and is accessed by travelling 2 kilometers along Shiney Mineral road and 1 kilometer east along BW road.

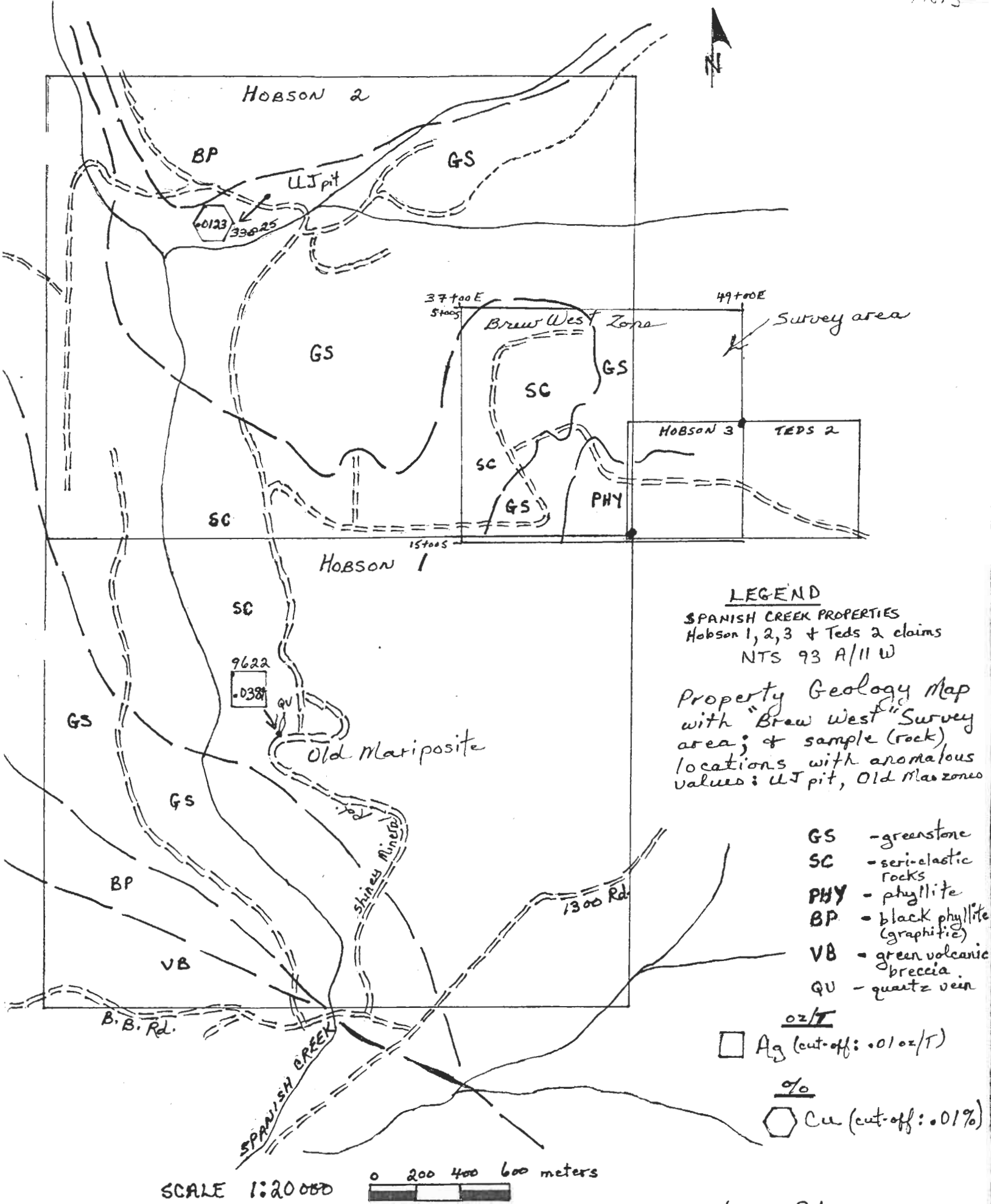
This area hosts a large greenstone facies, with clusters of gold-arsenic and gold-copper bearing quartz blowouts and veins occurring along or near contacts. The quartz blowouts are believed to occur very near a hidden intrusive. Sericitized meta-sediments host silver with galena quartz vein clusters, occurring along or near contacts. A limestone unit of fairly low grade metamorphism occurs for several hundred meters on this east flank of Mt. Brew.

10.1 Work Program

Two persons applied 14 days conducting rock geochemistry and mapping, covering about 2500 square hectares (1 sq. km). The program was designed to demonstrate extent and types of alteration rock, specific zoning and related mineralization.

10.2 Field Procedures :

Two persons drove daily by pick-up truck to designated work sites. Traverses were conducted along lines 37+00E - 49+00E, 5+00S - 15+00S; mapping and collecting 45 rock specimens from Brew West zone, and 2 more samples from other zones (UJ, Old Mariposite). All sample location sites were well flagged and marked with waterproof tags. The samples were collected and placed in plastic rock sample bags which were marked with identification numbers. Samples were duly described, sample sites mapped then recorded in a log book; then were subsequently delivered to ECO-TECH laboratories for analysis, Kamloops, B.C. Analysis consisted of 28 element ICP and follow-up assay where applicable. 47 rock samples were submitted for analysis and 11 samples warranted assay for any or all: gold, silver, copper, lead.



By: Sheran Paterson, 1996

Survey area and line locations, shown on Fig.5. Geology and rock sample sites with anomalous assay readings, identified on App. 1. Assays and corresponding rock sample descriptions, referenced in Tables 2 and 3

The rock geochemistry conducted over Brew West demonstrated some interesting results. Map and sample data, Appendice 1 and Tables 2 & 3; determined much alteration, different rock units, specific zoning and related mineralization believed to be of mesothermal origin. Quartz veins may follow linear paths along or near contacts. Greenstone plays host to copper-gold quartz veins & blowouts, and gold-arsenic quartz veins. Meta-sediments are favoured by galena with silver quartz veins bearing gold.

Targeted zones continue to provide encouraging results and remain priority for further exploration.

12.0 CONCLUSIONS :

1. Spanish Creek Properties are almost entirely underlain by middle, triassic to early jurassic, sedimentary & volcanic rocks of Quesnel Terrane.
2. Alteration & mineralization are likely associated with mesothermal metamorphism
3. Extensive greenstone rocks trend northwest across Hobson 2 claim. This claim hosts anomalous gold, silver and copper values.
4. Geochemistry demonstrated significant gold values with copper or arsenic in greenstone; and gold with silver-lead: Brew West.
5. Gold is believed to be associated with sulphides.
6. The present targeted zones are considered adequate to target more exploration.

13.0 RECOMMENDATIONS :

Geology, machine trenching & geochemistry, followed up by drilling is recommended over Brew West.

14.0 STATEMENT of EXPENDITURES :

15

The following table outlines 1996 expenditures incurred on the claims.

Statement of Expenditures

Salaries (mapping & geochemistry: rock)

M. Matherly 14 days @ \$200/day	\$ 2,800	
S. Paterson 14 days @ \$200/day	\$ 2,800	
		\$ 5,600

Analytical costs: 47 rock (28 elem. ICP)/ 11 assayed (Au, Ag, Cu, Pb)	\$ 1,057.17	
		\$ 1,057.17

Camp costs

14 days @ \$40/day x 2 persons	\$ 1,120	
		\$ 1,120

Vehicle costs

14 days @ \$50/day	\$ 700	
		\$ 700

Report Preparation

Sheran Paterson, 2 days @ \$200/day	\$ 400	
		\$ 400

TOTAL		\$ 8,577.17
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15.0 STATEMENT OF QUALIFICATIONS :

16

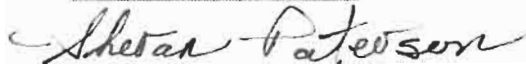
We, Merle Matherly and Sheran Paterson, Forest Grove, B.C. do certify that:

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], Gibraltar Mines Ltd.).
3. We completed the Advanced Mineral Exploration Course for Prospectors: Ministry of Energy, Mines & Petroleum Resources, B.C.
4. From 1978 to the present, we have been actively engaged in field exploration.
5. We personally executed and supervised the work program as described, and compiled and analyzed resulting data.

Merle Matherly



Sheran Paterson





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10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-872

SHINEY MINERAL EXPLORATION
BOX 63
FOREST GROVE, BC
V0K 1M0

20-Aug-96

ATTENTION: SHERAN PATERSON

No. of samples received: 22
Sample type: ROCK
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: SHINEY MINERAL EXP.

ET #.	Tag #	Ag (g/t)	Ag (oz/t)	Cu (%)	Pb (%)
2	9602	-	-	1.97	
8	9608	92.5	2.70	-	1.31
10	9610	435.4	12.70	-	8.70
11	9611	230.4	6.72	-	3.28

QC/DATA:

Standard:

Mp-IA	-	-	-	4.33
KCl-a	1680.0	48.99	0.67	-


ECO-TECH LABORATORIES LTD.

per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/96KMISC#6

22-Aug-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 96-872

SHINEY MINERAL EXPLORATION
BOX 63
FOREST GROVE, BC
V0K 1M0

Phone: 604-573-5700
Fax : 604-573-4557

ATTENTION: SHERAN PATERSON

No. of samples received: 22

Sample type: ROCK

PROJECT #: NONE GIVEN

SHIPMENT #: NONE GIVEN


Samples submitted by: SHINEY MINERAL EXP.

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	9601	250	2.4	0.09	<5	15	<5	<0.01	<1	6	214	4806	2.21	<10	0.03	218	13	<0.01	15	200	4	<5	<20	1	<0.01	<10	11	<10	<1	5
2	9602	920	5.0	0.14	<5	25	<5	0.02	<1	7	183	>10000	4.34	<10	0.06	135	13	<0.01	13	<10	<2	<5	<20	1	<0.01	<10	10	<10	<1	8
3	9603	5	<0.2	0.34	25	65	<5	0.06	<1	4	174	61	2.30	10	0.05	96	2	<0.01	4	540	48	<5	<20	39	0.14	<10	20	<10	5	13
4	9604	5	0.2	0.31	5	35	<5	0.20	<1	5	83	33	0.81	<10	0.07	151	4	0.03	15	850	48	<5	<20	9	<0.01	<10	3	<10	2	8
5	9605	5	<0.2	0.24	<5	15	<5	>10	<1	3	75	7	0.38	<10	0.13	618	<1	<0.01	5	690	14	5	<20	538	0.04	<10	3	<10	2	7
6	9606	5	<0.2	1.47	<5	130	<5	4.83	<1	14	111	23	3.16	20	0.84	445	5	0.01	33	710	20	10	<20	220	0.09	<10	17	<10	5	46
7	9607	5	0.4	1.20	<5	115	5	7.63	<1	37	107	32	5.52	<10	3.97	1075	3	0.01	173	2010	12	10	<20	377	<0.01	<10	21	<10	2	23
8	9608	530	>30	0.01	80	15	10	0.04	<1	<1	292	264	0.49	<10	0.02	56	12	<0.01	7	<10	>10000	245	<20	8	<0.01	<10	1	<10	<1	9
9	9609	5	0.8	0.28	<5	<5	<5	>10	<1	6	17	11	0.86	<10	0.19	358	<1	<0.01	10	330	98	10	<20	1791	0.03	<10	3	<10	<1	8
10	9610	80	>30	<0.01	5	10	1005	0.08	17	<1	207	23	0.38	<10	<0.01	41	8	<0.01	4	30	>10000	15	<20	10	<0.01	<10	<1	<10	<1	5
11	9611	5	>30	0.01	40	10	465	<0.01	4	1	312	21	0.62	<10	<0.01	44	13	<0.01	7	20	>10000	<5	<20	6	<0.01	<10	2	<10	<1	<1
12	9612	10	1.2	2.42	<5	25	<5	1.69	<1	17	97	5	1.66	<10	2.92	492	1	0.01	52	80	142	20	<20	21	0.05	<10	30	<10	<1	19
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15	9615	5	0.4	0.61	<5	30	<5	1.03	<1	8	295	17	0.83	<10	1.04	743	<1	<0.01	46	80	16	10	<20	8	0.04	<10	27	<10	1	16
16	9616	5	<0.2	2.79	<5	20	<5	>10	<1	37	147	127	6.55	<10	7.62	1592	2	0.01	83	680	14	10	<20	638	0.03	<10	138	<10	1	41
17	9617	5	0.6	0.14	<5	<5	<5	>10	<1	2	11	4	0.43	<10	0.20	153	<1	<0.01	3	250	<2	10	<20	3115	0.01	<10	3	<10	1	4
18	9618	5	<0.2	0.80	25	35	<5	2.68	<1	13	105	15	1.41	20	0.28	336	2	<0.01	32	720	24	<5	<20	132	0.13	<10	14	<10	7	23
19	9619	5	1.0	0.96	20	65	5	0.14	<1	20	96	27	5.08	20	0.12	893	7	<0.01	46	850	34	<5	40	11	<0.01	<10	34	<10	11	103
20	9620	5	<0.2	1.25	<5	50	<5	0.42	<1	55	45	258	>10	<10	0.55	166	38	<0.01	15	260	6	<5	220	38	0.25	30	120	<10	<1	13
21	9621	85	12.2	0.66	<5	75	<5	>10	1	46	87	1280	6.84	<10	5.38	1914	5	0.02	60	600	2032	<5	<20	505	0.04	<10	70	<10	<1	34
22	9622	5	1.2	<0.01	235	30	15	0.07	<1	170	196	11	>10	<10	<0.01	41	16	<0.01	13	<10	34	<5	80	4	<0.01	30	1	<10	<1	5

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:																															
R/S 1	9601	255	2.8	0.05	<5	15	<5	<0.01	<1	5	220	4978	2.03	<10	0.01	180	7	<0.01	11	170	2	<5	<20	3	<0.01	<10	10	<10	<1	4	
Repeat:																															
1	9601	280	2.4	0.09	<5	15	<5	0.02	<1	6	211	4881	2.20	<10	0.03	214	13	<0.01	14	190	2	<5	<20	1	<0.01	<10	11	<10	<1	5	
10	9610	60	>30	<0.01	5	<5	1025	0.08	16	<1	207	22	0.38	<10	<0.01	40	8	<0.01	4	40	>10000	15	<20	7	<0.01	<10	<1	<10	<1	5	
Standard:																															
GEO'96		-	1.6	1.79	70	155	<5	1.74	<1	18	61	84	3.97	<10	0.98	694	<1	0.02	24	690	18	<5	<20	61	0.12	<10	79	<10	4	65	

df/843ar
XLS/96kmisc6


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Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-1021

SHINEY MINERAL EXPLORATION
BOX 63
FOREST GROVE, BC
V0K 1M0

12-Sep-96

ATTENTION: SHERAN PATERSON


No. of samples received: 25
Sample type: ROCK
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: SHINEY MINERAL EXP.

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Cu (%)	Pb (%)
.1	33801	6.71	0.196	-	-	-	-
6	33806	-	-	-	-	1.12	-
10	33810	-	-	381.6	11.13	-	4.05
11	33811	-	-	99.7	2.91	-	-
12	33812	-	-	70.9	2.07	-	2.17
17	33817	1.95	0.057	-	-	-	-
20	33820	1.41	0.041	-	-	-	-

QC/DATA

Standard:

CPb-1	-	-	632.0	18.43	-	-
Kcla	-	-	-	-	0.63	2.26


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

XLS/96kmisc#8

12-Sep-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 96-1021

SHINEY MINERAL EXPLORATION
BOX 63
FOREST GROVE, BC
V0K 1M0

Phone: 604-573-5700
Fax : 604-573-4557

ATTENTION: SHERAN PATERSON


No. of samples received: 25
Sample type: ROCK
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: SHINEY MINERAL EXP.

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	33801	>1000	1.2	0.03	1225	60	<5	0.04	<1	21	268	184	>10	<10	<0.01	91	24	<0.01	14	<10	40	<5	<20	2	<0.01	<10	8	<10	<1	63
2	33802	120	0.8	1.02	<5	55	<5	4.60	<1	37	301	2399	8.37	<10	1.77	1501	12	0.01	45	740	10	<5	<20	38	0.01	<10	137	<10	<1	61
3	33803	5	<0.2	4.45	<5	30	<5	0.74	<1	69	91	507	>10	<10	3.99	1136	13	<0.01	16	550	18	<5	<20	9	0.02	<10	174	<10	<1	55
4	33804	5	<0.2	4.90	<5	45	<5	0.78	<1	76	133	108	>10	<10	4.12	1806	9	<0.01	27	1010	20	<5	<20	8	0.04	<10	305	<10	<1	108
5	33805	5	<0.2	4.41	<5	30	5	1.83	<1	67	223	39	>10	<10	4.67	1432	<1	<0.01	63	820	16	<5	<20	14	0.38	<10	175	<10	<1	73
6	33806	160	3.4	2.08	<5	20	<5	0.23	<1	47	327	>10000	7.31	<10	2.63	535	8	0.01	52	950	4	<5	<20	<1	0.14	<10	107	<10	<1	36
7	33807	10	<0.2	0.12	<5	30	10	>10	<1	42	67	26	8.37	<10	4.07	2222	7	0.02	62	130	8	<5	<20	241	0.01	<10	11	<10	<1	35
8	33808	5	<0.2	0.77	<5	90	<5	7.92	<1	44	53	38	>10	<10	2.63	1337	5	<0.01	52	770	6	<5	<20	107	0.03	<10	140	<10	<1	40
9	33809	5	<0.2	3.29	<5	1230	<5	7.26	<1	60	1031	49	8.27	10	7.14	1829	3	0.01	367	2780	6	<5	<20	134	0.09	<10	139	<10	<1	86
10	33810	580	>30	0.02	65	20	715	0.03	1	6	334	13	2.42	<10	<0.01	68	11	<0.01	9	90	>10000	<5	<20	3	<0.01	<10	2	<10	<1	5
11	33811	710	>30	0.01	675	20	<5	0.01	<1	2	267	344	2.85	<10	<0.01	45	18	<0.01	2	140	9746	250	<20	3	<0.01	<10	2	<10	<1	102
12	33812	75	>30	<0.01	315	20	15	<0.01	7	3	364	247	4.23	<10	<0.01	62	14	<0.01	6	120	>10000	55	<20	3	<0.01	<10	5	<10	<1	1574
13	33813	5	0.6	1.63	<5	750	<5	5.30	<1	51	354	23	8.12	20	3.71	1677	6	<0.01	258	3050	136	<5	<20	99	<0.01	<10	58	<10	1	491
14	33814	5	<0.2	2.62	<5	30	<5	6.42	<1	45	104	131	5.71	<10	2.34	1241	<1	<0.01	13	280	60	<5	<20	24	0.33	<10	131	<10	2	38
15	33815	5	<0.2	0.89	<5	40	<5	2.08	<1	37	122	33	3.86	30	0.37	288	<1	<0.01	60	1680	32	<5	<20	117	0.31	<10	24	<10	10	33
16	33816	5	<0.2	0.94	80	95	<5	7.05	<1	35	83	36	6.81	30	0.61	756	6	<0.01	60	1640	26	<5	<20	85	0.03	<10	16	<10	10	232
17	33817	>1000	1.6	0.07	695	70	20	0.06	<1	29	166	44	>10	<10	<0.01	94	29	<0.01	21	<10	26	<5	<20	2	<0.01	<10	23	<10	<1	23
18	33818	220	0.2	0.42	205	95	15	0.03	<1	86	81	19	>10	<10	<0.01	1533	14	<0.01	73	310	24	<5	<20	3	<0.01	<10	74	<10	<1	91
19	33819	350	0.8	0.02	1120	65	25	0.03	<1	48	190	10	>10	<10	<0.01	51	31	<0.01	47	<10	28	<5	<20	2	<0.01	<10	12	<10	<1	47
20	33820	>1000	<0.2	0.10	2050	115	20	0.05	<1	62	162	40	>10	<10	<0.01	230	40	<0.01	45	460	110	<5	<20	2	<0.01	<10	87	<10	<1	76
21	33821	5	<0.2	3.42	<5	30	<5	4.99	<1	55	132	99	7.73	<10	3.50	1014	<1	<0.01	47	740	<2	<5	<20	10	0.26	<10	131	<10	<1	31
22	33822	5	<0.2	1.66	<5	60	5	0.18	<1	11	151	11	5.74	<10	0.91	561	7	<0.01	11	600	8	<5	<20	8	0.05	<10	16	<10	<1	92
23	33823	60	<0.2	1.01	<5	70	15	0.45	<1	53	91	41	>10	<10	0.81	304	12	0.04	19	990	6	<5	<20	5	0.17	<10	399	<10	<1	19
24	33824	5	<0.2	1.52	15	15	<5	2.56	<1	28	149	14	2.10	<10	0.32	240	<1	<0.01	32	490	84	<5	<20	88	0.31	<10	17	<10	7	40
25	33825	5	<0.2	1.14	<5	45	<5	4.52	<1	82	163	123	>10	<10	1.05	2316	18	0.02	24	360	6	<5	<20	16	0.01	<10	161	<10	<1	263

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:																															
<i>Resplit:</i>																															
R/S 1	33801	>1000	1.4	0.03	1125	60	5	0.06	<1	24	280	176	>10	<10	<0.01	85	25	<0.01	18	<10	50	<5	<20	2	<0.01	<10	7	<10	<1	70	
<i>Repeat:</i>																															
1	33801	>1000	1.0	0.03	1130	60	<5	0.05	<1	19	250	181	>10	<10	<0.01	88	22	<0.01	19	<10	34	<5	<20	3	<0.01	<10	7	<10	<1	60	
10	33810	555	>30	0.02	70	15	745	0.03	1	7	364	13	2.53	<10	<0.01	76	13	<0.01	10	100	>10000	<5	<20	2	<0.01	<10	2	<10	<1	9	
19	33819	395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Standard:</i>																															
GEO'96		150	1.6	1.95	70	190	<5	1.91	<1	24	70	78	4.02	<10	1.06	730	<1	0.02	22	700	22	<5	<20	57	0.12	<10	86	<10	5	74	

df/997
XLS/96kmisc


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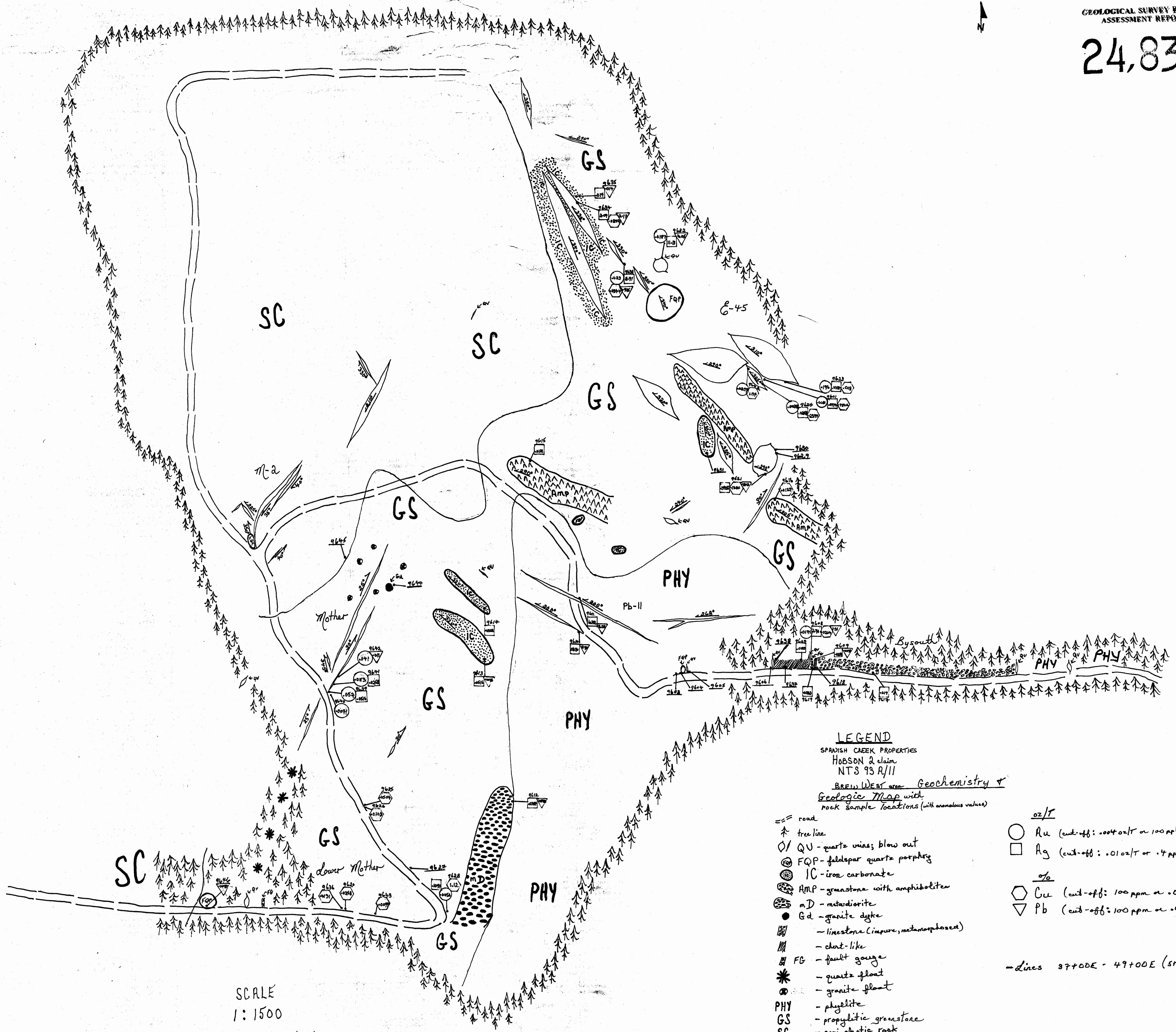
BREW WEST, Hobson 2 claim, ROCK DESCRIPTIONS, 1996

Zone	Lab# / Smp#	Rock Description
E-45 (Cu-13 QVs)	9601	from L45E, 9+00S/ lg. QV system; GS calc-silicate rock, with epidote sweats/ smp. is sugary, vuggy Qtz. with leaching iron; chalc & malachite staining
	9602	about L44+70E, 9+00S/ continuation of lg. QV system within GS country rock/ smp. is sugary, vuggy Qtz. with leaching iron; much chalc & malachite staining
Bysouth	9603	from L44E, 12+25S/ very rusty dark, highly siliceous (calc-silicate?) rock; brittle with dark fine Qtz. lenses & blebs; highly warped; on E. side of FDP dyke/ banded
	9604	from L44+07E, 12+25S/ light-color FDP; quite calcic, banded texture & fine lenses of dark Qtz./ dyke is 4m wide
	9605	from L44+23.5E/ black Qtz.; some calc (low fizz)/ sugary texture, some vugs
	9606	from L45+02E/ 2m wide Qtz. dyke/ calcic (fizzes); some fine metal disseminations (moly, galena?)
	9607	from L45+42E/ 1m wide calc-rich greenish-colored rock; fine metal disseminations/ dyke
	9608	from about L45+43E is QV on E. side of (smp. 9607) dyke; with galena
	9609	from L45+93E/ black calc-silicate (highly calcic) rock with some Qtz. eyes
Pb-11	9610 *B QV*	15m @ 290 deg. from L43E, 11+85S/ galena in brittle, rusty, black QV with other metals
	9611 *A QV*	starts from 20m @ 130 deg. from L43E, about 11+50S/ galena in brittle, rusty, black QV/ just E. above Rd.
mD	9612	pale green meta-diorite? along CS, PHV contact @ L42E, 13+60S/ size unknown
IC	9613	iron-carbonate from L42E, 12+00S/ approx. 70m long + 8m wide/ very highly weathered; has ankerite crystals

		9614	from L42E, 11+55S/ approx. 60m long & 5m wide/ very highly weathered iron-carbonate; has ankerite crystals
GS with Amphibolite		9615	35m @ 320 deg. from L42E, 10+00S is greenstone-amphibolite outcrop with white lenses & phenocrysts
		9616	from L45E, 10+50S is greenstone-amphibolite outcrop trending @ 305 deg./ some epidote sweats, some qtz. lenses & blebs/ carbonate lenses & phenocrysts; malachite stain
Bysouth		9617	@ main lg. limestone outcrop; bedded with much leaching iron, fine metal disseminations
		9618	along new Rd. just W. of lg. bedded limestone outcrop is impure chert; bedded, much iron leach, fine metal disseminations
		9619	light yellow-colored fault gouge along E. side of smp. (9608 QV) - along new Rd. *NOTE* assay for Au
L. Mother		9620	@ tree line, Rd. switchback/ pyrite-rich ore rock; much iron leach, much metal disseminations, very weathered
E-45 (Cu-13 QVs)		9621	@ L45E, 10+20S is iron-carbonate with leaching iron, metal disseminations/ @ qtz. carbonate outcrop
Old Ma		9622	massive pyrrhotite from main QVC in Rd.; qtz. is milky, some vugs
E-45	33801	9623	qtz. with sulphides from near fireguard near L45E lg. qtz. bulges (about L45+30E, 9+05S)
	33802	9624	chlorite-schist wallrock, sulphide disseminations @ L45E, 9+00S
S. Moth.	33803	9625	S. of MOTHER QV (about 110m) along Rd. - calc-silicate GS outcrops with epidote sweats, some metal disseminations, some qtz. lenses; malachite stain throughout
	33804	9626	rusty GS alongside of smp. 9625 (about 110m) S. of Mother QV; along Rd.

	33805	9627	about 75m further S. from samp. 9625 & 9626, along Rd./ massive, dense calc-silicate GS; some epidote sweats; much fizz when scratched; much metal disseminations
L. Moth.	33806	9628	right @ E. side of L. Mother; switchback (ditch) - chalco & malachite rich qtz. lenses in GS; qtz. carbonate lens
E-45	33807	9629	@ L45+15E, 9+90S is metalliferous & carbonated qtz.; much weathered; metal cubes & disseminations
	33808	9630	@ samp. 9629 qtz. outcrop is GS wallrock - much weathered, much carbonated, & disseminated metals
	33809	9631	from L44+60E, 10+00S - outcrop of weathered iron-carbonate with fine metal disseminations
	33810	9632	from qtz. bulge @ L43+90E, 8+00S - very rusty, vuggy qtz., much iron; with galena
	33811	9633	from DV @ L43+60E, 8+00S - very rusty qtz. with galena
	33812	9634	from DV @ L43E, 7+30S - vuggy, iron leach, some qtz. crystals, galena crystals
	33813	9635	from S. side of L43E, 7+30S DV is rusty weathered iron-carbonate, some with bands of sulphides
L. Moth.	33814	9636	epidote sweats in massive GS calc-silicate, malachite & azurite stain/ @ W. side, near tree line of L. Mother switchback, along Rd.
Bysouth	33815	9637	along Rd. - about 110m E. from L44E, 12+25S/ rusty, good fizz, dense, massive; penetrated with light-colored veinlets/ appears to be a dyke (chert?) - (from 105m to 137m), about 32m wide
	33816	9638	along Bysouth Rd. about 102m from L44E, 12+25S is wallrock from E. side of 9606 DV
Mother	33817	9639	Mother DV with metals; right @ Rd. cut
	33818	9640	wallrock from S. side of Mother DV; right @ Rd./ very weathered, rusty sediment

	33819	9641	Mother DV - about 10m up from Rd. cut
	33820	9642	Mother DV with massive arseno; about 20m up from Rd. cut
L. Moth.	33821	9643	about 20m W., on inside of L. Mother switchback; dense GS with fine metal disseminations
Mother	33822	9644	from just on SE side of L41+05E, 11+30E granite dyke is banded green rock; much metal disseminations
	33823	9645	@ about L40+60E, 11+00S is light-colored, dense, massive FDP or DP? with some lg. iron cubes; GS country rock
L. Moth.	33824	9646	@ about 300m W. from Rd. switchback @ L. Mother/ up to 15m wide; contact between GS & PHY; just W. of L. Mother DV - metal disseminations in heavy dense alteration rock
UT Pit	33825	9647	bedded looking GS with qtz. carbonate lens & veins; metal disseminations, sometimes iron cubes or lg. iron octohedrons



LEGEND

SPANISH CREEK PROPERTIES
HOBSON 2 claim
NTS 93 R/11
BREW WEST area
*Geochemistry &
Geologic Map with
rock sample locations (with anomalous values)*

- == road
 - tree line
 - QU - quartz veins; blow out
 - FQP - feldspar quartz porphyry
 - IC - iron carbonate
 - AMP - granstone with amphibolite
 - mD - metadiorite
 - Gd - granite dyke
 - limestone (impure, metamorphosed)
 - chert-like
 - FG - fault gouge
 - * - quartz float
 - o - granite float
 - PHY - phylite
 - GS - propylitic greenstone
 - SC - sericlastic rock
 - general trend
 - o - sample site (rock) with sample reference number
- oz/T
 - Au (cut-off: .004 oz/T or 100 ppb)
 - Ag (cut-off: .01 oz/T or .4 ppm)
 - %
 - ◇ Cu (cut-off: 100 ppm or .01%)
 - ▽ Pb (cut-off: 100 ppm or .01%)
- Lines 37+00E - 49+00E (5005-16005)

SCALE
1:1500
0 20 40 60 metres

By: Sheran Paterson, 1996