

LOG NO:	AUG 0 4 1992	RD.
ACTION:		
FILE NO:		

1992 REPORT
for the
SPANISH CREEK PROPERTIES
Cariboo Mining Division
NTS 93 A/11
Lat. 52° 40' 00", 52 31' 00"
Long. 121° 26' 00", 121° 11' 00"

Owner: Merle Matherly,
Box 422,
150 Mile House, B.C.
VOK 2G0

Operators: Merle Matherly, Sheran Paterson
Box 422,
150 Mile House, B.C.
VOK 2G0

Report by: Sheran Paterson
June 30, 1992

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,437

1.0 COVER LETTER

The Spanish Creek Properties constitute a Gold prospect located in the Cariboo-Quesnel Gold Belt, 110 kilometres northeast from the city of Williams Lake in north-central British Columbia.

The geologic setting formed by the Eureka Thrust Fault, defines the boundary between two major tectonic plates, the Intermontane and Omenica belts.

The 1992 exploration program outlined a sizable gold bearing pyrite alteration zone.

All exploration work-reference Assessment Reports: 1988-No. 17751, 17912/ 1989-No. 19415/ 1991-No. 21610; and the work conducted in 1992, indicates that advanced and more detailed exploration is required for this Gold prospect.

2.0 REGIONAL HISTORY

The project area is situated near four, present-day, major deposits with economic potential: Mt. Polley copper-gold project, located 20 kilometres slightly southwest/ QR gold deposit, located 30 kilometres northwest/ Eaglet fluorspar deposit, located 20 kilometres slightly southeast/ Frasergold, Eureka Peak, gold prospect, located 50 kilometres southeast.

Recent placer mining activity is presently in existence in the area: Cedar Creek, Lower Spanish Creek, Cariboo River, Keithley Creek, Winkley Creek, Antler Creek, and many others.

Two placer claims are presently in testing stages along Upper Spanish Creek in the southern portion of the Spanish Creek Properties.

From 1978 to 1980, Gavex Gold Mines held placer claims on Upper Spanish Creek in the southern portion of these properties; and old placer claim posts, dating 1950's, have been discovered on No Name Creek in the western portion of the properties.

This area has a known hardrock and placer mining history dating as early as the mid 1800's. Some old mining sites existed relatively near the Spanish Creek Properties: Cariboo-Hudson Mine; Au, Ag, W, Pb, Zn; located 30 kilometres due north; Roundtop Mtn. at Cunningham and Simlock Creeks/ Providence (Independence); Ag, Pb; located about .5 kilometres northwest; Blackbear Mtn. at Blackbear Creek/ Bullion Pit; placer gold; Cariboo River; located 19 kilometres slightly northwest/ Cedar Creek; placer gold; Spanish Mtn., located 13 kilometres almost due west/ Golden Horn; placer gold; Mt. Warren at Winkley Creek; located 15 kilometres slightly southwest/ Kitchner; placer gold; Keithley Creek; located 19 kilometres slightly northwest on Keithley Creek Mtn.

3.0 PROPERTY HISTORY

The target mineralization on the properties is gold. Thrust zones and known faults are of particular interest with some emphasis on contacts between rock units (et al. Geology, Quesnel Lake - west half - British Columbia, G.S.C. Map 3 - 1961).

Preliminary study of the Spanish Creek area, 1981 to 1983, led to the discovery of one zone, and hand-pick rock specimens collected from transgressive veins, quartz with galena, in sericite schist revealed notable silver, lead and some gold values.

Further investigation, 1988, discovered mineralization in chlorite and sericite schists and black phyllite rock units over various locations of the properties. Significant copper, silver, lead and some gold values were determined from analyzed hand-pick rock specimens.

A large soil reconnaissance grid, 1989, identified extensive gold, silver, copper, lead and zinc in-soil anomalies.

Mapping and rock sampling, 1991, outlined two zones, mineralized clusters of transgressive quartz veins in chlorite schist carrying significant gold, silver and copper values. Follow-up soils over one zone determined that mineralization exceeds one hectare.

Mapping and rock sampling, 1992, outlined a significant gold bearing pyrite alteration zone; visible at the surface for approximately 25 hectares.

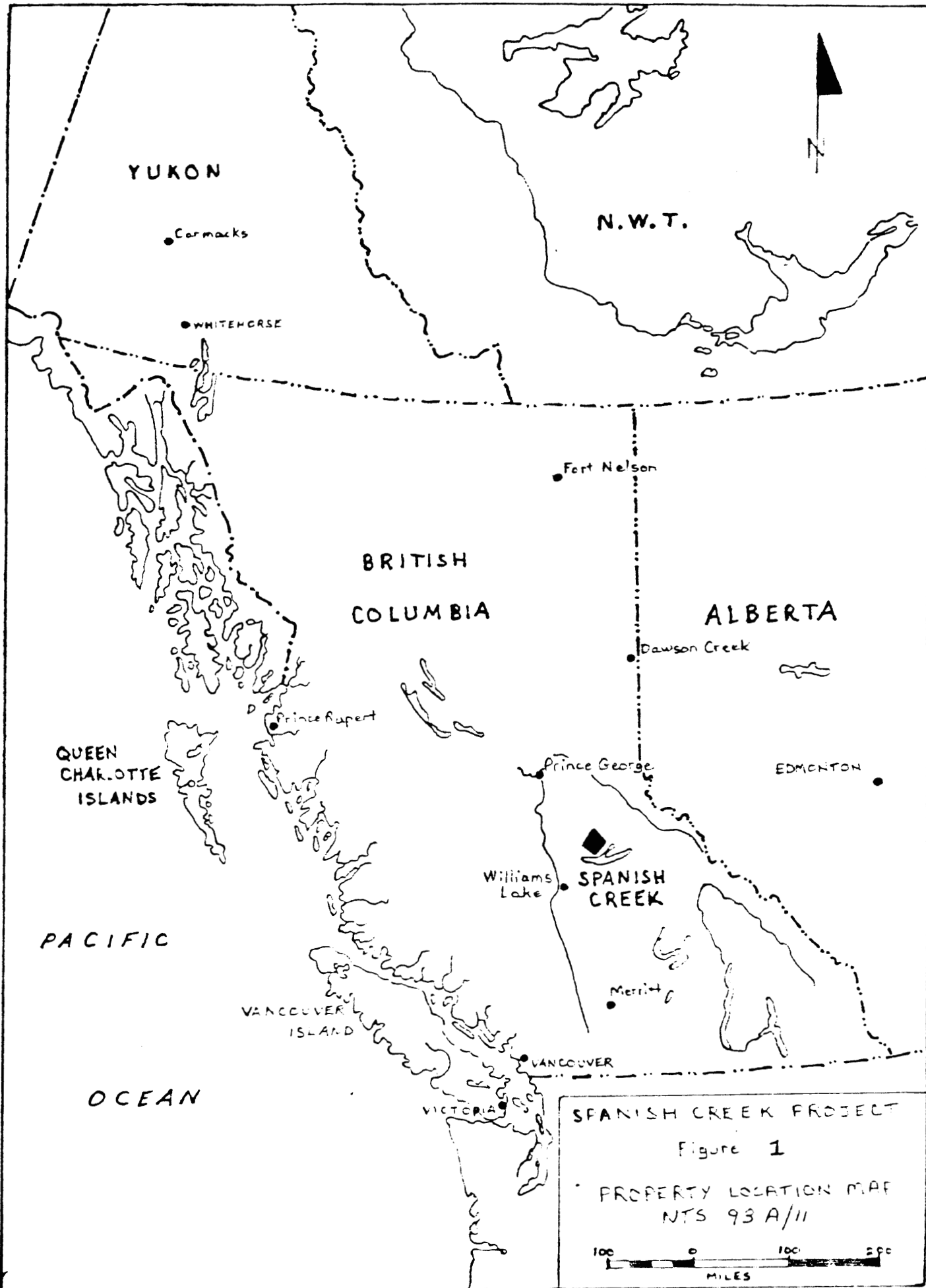
The 1992 work program described in this report was employed during the period between July 1, 1991 to June 30, 1992.

4.0 LOCATION and ACCESS

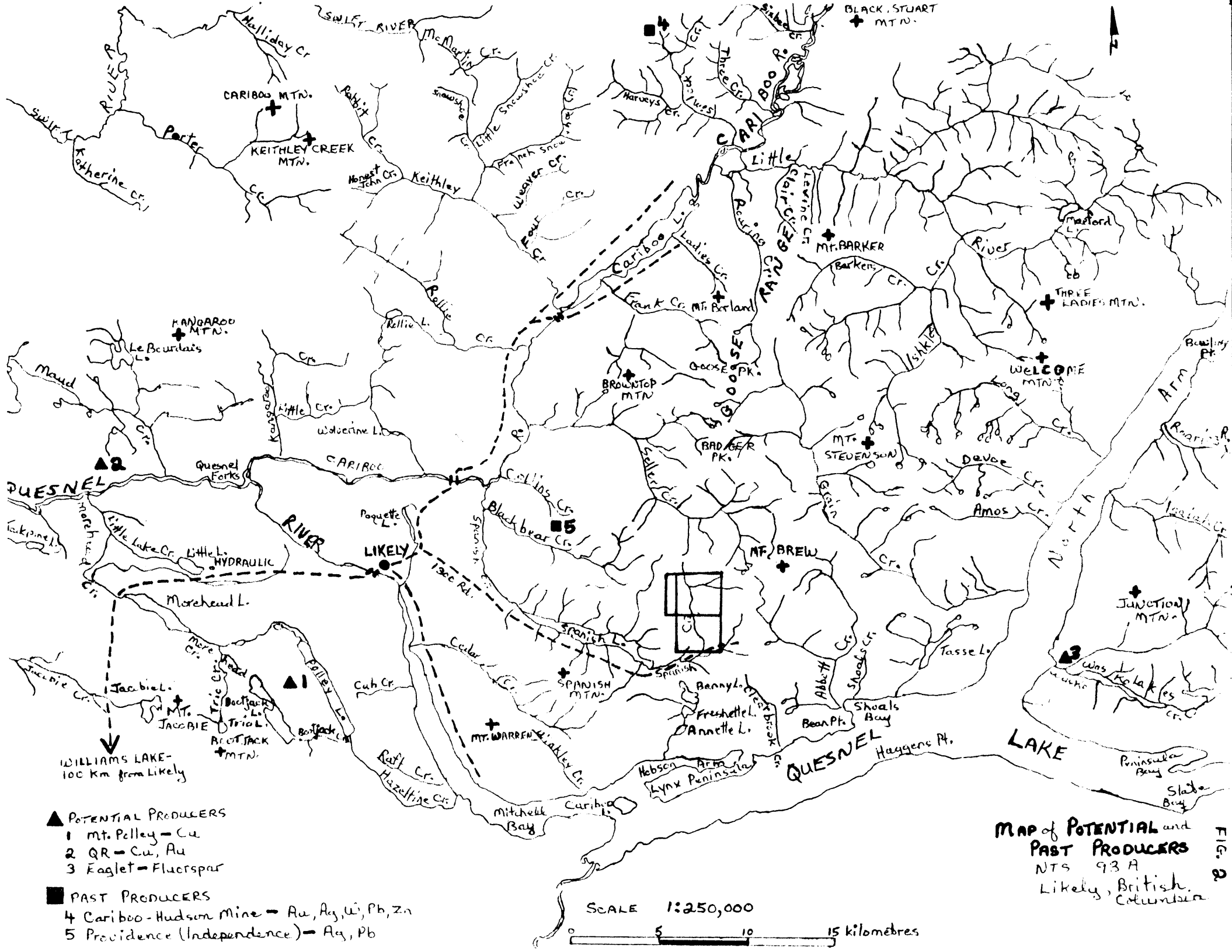
The Spanish Creek Properties are located 110 kilometres northeast from the city of Williams Lake in north-central British Columbia as shown on Figure 2.

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

The properties are cut by two drainage systems, known to carry flour gold, that flow into Spanish Lake. The claims lie on the east and west flanks of Upper Spanish Creek between Mount Brew and Blackbear Mountain. The area is of moderate relief and well logged providing excellent access to and through the properties by old and new roads.



SPANISH CREEK PROJECT
 Figure 1
 PROPERTY LOCATION MAP
 NTS 93 A/11



5.0 PHYSIOGRAPHY and 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; the exception is Mount Brew whose height reaches up to 2000 metres.

The environment offers many water courses, lakes, and is well forested with spruce, fir, pine, cedar and poplar trees, and foliated with broadleaf vegetation. A minimum of 50% of the properties are clear cut from logging activities.

Reasonable weather conditions for exploration work may be expected from mid June to the end of October. Winter snow pack can occasionally reach three to five metres.

6.0 CLAIM STATUS

This prospect presently consists of 3 contiguous claims, totalling 44 units, 1100 square hectares, as shown on Figure 3.

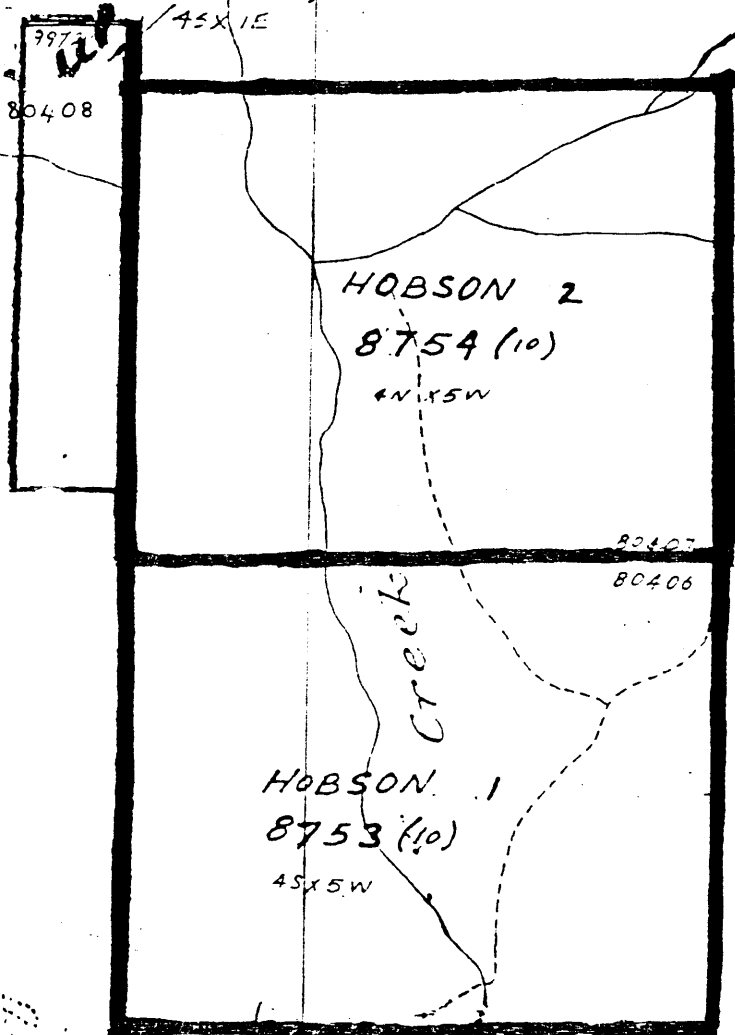
The Spanish Creek claims are wholly owned by Merle Matherly.

Table 1 - Mineral Claim Schedule

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Yr. Staked</u>
Hobson 1	20	8753	Oct. 28/87.
Hobson 2	20	8754	Oct. 28/87.
Teddy	4	9295	Aug. 22/88.

MT. BRE

TO WEST SEE MAP 93A/11W



CLAIMS MAP
 NTS 93 A/11 E+W
SPANISH CREEK
PROPERTIES

Hobson Group:
 Hobson 1
 Hobson 2
 Teddy

SCALE



Spanish Creek

7.0 REGIONAL GEOLOGY

The Spanish Creek project area lies within the Quesnel Terrane, Triassic and Jurassic, pelitic and volcanic rock of the Intermontane belt, where the Eureka Thrust Fault defines the boundary between the Omenica, Barker-ville Terrane, and Intermontane tectonic belts. Mineralization occurs in quartz veins and as disseminations.

8.0 PROPERTY GEOLOGY

Five main rock units and three lesser units have been identified:

- chlorite schist - occurs for a minimum 4 square kilometres
 - in contact with phyllite and sericite schists
 - chlorite-rich, copper-rich (mostly chalcopyrite, malachite), much carbonated (ankerite, siderite), quartz lenses and transgressive veins, some epidote veins
 - some quartzite occurs near a contact of chlorite schists and phyllites
- sericite schist - in contact with chlorite schist
 - contact with chlorite schist is known to be defined by dolomitic masses with associated mariposite
 - commonly contains quartz lenses and transgressive veins
 - quartzite occurs as a body alongside sericite schist; sometimes along each side of transgressive quartz veins
- black phyllite - triassic, Cariboo series
 - four recognized units: greasy, graphitic with pyrites/ carbonate coated vesicles in light honey-combed phyllite/ banded metals in carbonated graphitic phyllite/ knotty phyllite with carbonate nodule fillings
 - in contact with chlorite schist and green volcanic breccia
 - commonly contains quartz lenses and transgressive veins
 - some quartzite occurs at a contact of phyllite and chlorite schist

- volcanic breccia- occurs in west portion of properties and trends northwest
- green, marine origin
 - silica-rich, carbonated
 - mineralization unknown
- ultramafics
- green, greasy, with carbonate phenocrysts
 - occurs at a contact of sericite and chlorite schists which sandwich mariposite in dolomitic mass
 - malachite stain also occurs in this rock
- dolomitic mass
- with mariposite
 - appears to occur mostly at contacts between sericite and chlorite schists
- quartzite
- occurs as a body near a contact of chlorite schist and phyllites
 - occurs as a body alongside sericite schist
 - occurs as fairly thin layers along each side of transgressive quartz veins
 - often contains metal disseminations
- serpentinite
- greasy, flaky, pale green to white colour
 - occurs at contact between chlorite and sericite schists

9.0 MINERALIZATION

9.1 Types

The properties have recognized types of mineralization:

- transgressive quartz veins in which the metals: chalcopryrite, galena, pyrites and malachite; occur massive, as vug fillings, stains; sometimes disseminations in chlorite and sericite schists and phyllites. Surface vein widths are not fully identified.
- concordant and transgressive quartz carbonate lenses with metals such as chalcopryrite, pyrites and malachite occur mostly as disseminations, vug fillings, stains and sometimes massive in chlorite and sericite schists and phyllites. The lenses appear numerous and narrow but surface widths are not fully identified.
- disseminated metals occur in: chlorite schist (chalcopryrite, pyrites), black phyllite (pyrites), sericite schist (pyrites), quartzite (pyrites, some chalcopryrite), concordant and transgressive quartz carbonate lenses (chalcopryrite, pyrites, malachite).

- massive metals occur in: transgressive quartz veins (chalcopyrite, galena, malachite, pyrites) in chlorite and sericite schists and phyllite rocks; quartz carbonate lenses in chlorite schist (chalcopyrite, some malachite, pyrites); quartz lenses in sericite schist (pyrites); quartz lenses in phyllites (pyrites); sometimes in quartzites (pyrites, some chalcopyrite).
- banded metals occur in: chlorite schist (pyrites) and phyllites (pyrites).
- carbonates (ankerite, siderite) occur: massive in quartz lenses in chlorite schist, phyllites and ultramafics; as various sized phenocrysts in chlorite schist, ultramafics, phyllites, volcanic breccia and serpentinite; as a body of dolomitic mass with mariposite at contacts between chlorite and sericite schist.
- staining occurs as malachite in chlorite schist and limonite in all rock units.

9.2 Zone Description (Fig. 4)

Brew W.

Brew W., discovered in 1992, is located in the southeast corner of Hobson 2 claim, and is accessed by travelling 2 kilometres along the Shiney Mineral road and 1 kilometre east along the BW road.

- 1 metre wide quartz veins (MOTHER zone) more than 100 metres visible strike length, trending 30° north, occur in a pyrite alteration facies that is in contact with a nearby sericite schist unit. The quartz is mineralized with fine and coarse massive pyrites and pyrite seams 3-5 centimetres width. Analysis has shown high gold values and lower values in silver, copper, lead and zinc. Analyzed rock samples have returned anomalous values up to: gold, .272 ounces per ton.
- 1 metre wide quartz veins (M2 zone) more than 100 metres visible strike length and trending 30° north, also occur in the pyrite alteration 200 metres north from MOTHER veins. The quartz is mineralized with pyrite disseminations and blebs. Bulk chip sampling has continued to reveal high gold values and low values in the remaining elements.

Bulk chip sampling of MOTHER and M2 zones and other nearby locations, has returned anomalous gold values greater than 100 ppb from about 50% of the analyzed samples.

Hobson N.

Hobson N., discovered in 1991, is situated in the north-central portion of Hobson 2 claim and is accessed by travelling 3.5 kilometres north along the Shiney Mineral road then turning east onto the HN road.

- Up to 1 metre wide transgressive tourmaline quartz veins (212 zone) with a general 270° trend, occur in a chlorite schist alteration facies that is in contact with nearby phyllites. The quartz is mineralized with pyrites and chalcopyrite occurring as blebs and disseminations, and some malachite staining. Malachite stain also occurs between leaves of the relatively unweathered chlorite schist along with finely disseminated pyrites. Analyzed rock samples have returned anomalous values up to: gold, .131 ounces per ton/ silver, .3387 ounces per ton/ copper, 4.54 percent.
- Up to 1 metre wide quartz ankerite lenses (217 zone), 200 metres southwest from the 212 veins, are mineralized with pyrites and chalcopyrite, mostly as disseminations and small blebs, and minor malachite staining. Malachite stain also occurs between leaves of the chlorite schist along with finely disseminated pyrites. Analyzed rock samples have returned anomalous values up to: gold, .18 ounces per ton/ silver, .0387 ounces per ton/ copper, .66 percent.

#3 Landing

#3 Landing, discovered 1981-1983, is situated in the south-central portion of Hobson 2 claim, and is accessed by travelling 2 kilometres north along the Shiney Mineral road, 400 metres east along the BW road, then going north for 200 metres.

- .5 metre wide transgressive quartz veins with a general 300° trend, occur in a sericite schist alteration facies that is in contact with a nearby chlorite schist alteration. The quartz is mineralized with galena and some pyrites, occurring as blebs. Analyzed rock samples have returned anomalous values up to: gold, .066 ounces per ton/ silver, 15.75 ounces per ton/ lead, 24.0 percent.

10.0 ROCK GEOCHEMISTRY, GEOLOGIC MAPPING

Two persons applied 12 days conducting rock geochemistry over targeted areas of gold mineralization.

The program began with rock sampling and geologic mapping over Brew W. area, 100m by 80m, to identify gold mineralization. Significant gold values were determined along 70 metres vein length. A total of 13 hand specimens were collected, 6 samples were analyzed for: gold, silver, copper, lead and zinc; 4 samples were subsequently assayed for: gold. (Fig.6)

Channel rock sampling and geologic mapping Brew W., 400m by 500m, was applied to indicate specific gold bearing structures from which 2 zones, MOTHER and M2 were outlined. A channel sample from Gary B. listwanite area was collected to outline mineralization. A total of 12 samples were collected, 11 samples were chemically analyzed (31 element); 1 sample was subsequently assayed for: gold. (Fig.7)

Channel rock sampling was conducted over Brew W. zones; Hobson N., Gary B. and UJ areas to follow up on specific gold bearing zones, and other types of mineralization. Two chemical analysis (31, 28 element) were applied to all 22 samples collected. (Fig. 5,7)

11.0 INTERPRETATION

The anomalies displayed by gold may be reflecting economically significant, concentrations of this metal in the underlying or nearby bedrock. This interpretation is supported by the fact that gold anomalies tend to define strong trends, which clearly contrast from the background values.

Gold is the primary target and will be given priority in follow-up. The present outlined Brew W. zones are considered adequate to target further geochemistry and machine trenching.

12.0 CONCLUSIONS

1. The Spanish Creek properties are almost entirely underlain by middle triassic to early jurassic sedimentary and volcanic rocks of the Quesnel Terrane.
2. Alteration and mineralization are likely associated with fault structures and contacts between rock units.
3. Extensive chlorite-rich zones trend northwest across the Hobson 2 claim. Anomalous gold and copper values are indicated in this claim.
4. Significant gold values were determined in a sizable pyrite alteration zone.
5. The present outlined zones are considered adequate to target further geochemistry and machine trenching.

13.0 RECOMMENDATIONS

Geologic mapping, machine trenching and geochemistry are recommended for the Brew W., gold-in-pyrite alteration.

14.0 STATEMENT of EXPENDITURES

The following table outlines the 1992 expenditures incurred on the claims.

Table 2 - Statement of Expenditures

Salaries (geochemistry & geologic mapping)		
M. Matherly 12 days @ \$200/day	\$	2,400.00
s. Paterson 12 days @ \$200/day		<u>2,400.00</u>
	\$	4,800.00
Geochemical Analysis (5, 28, 31 element)		
39 rock samples x \$18.50	\$	721.50
5 rock assays x \$8.50		<u>42.50</u>
	\$	764.00
Camp Costs		
12 days @ \$40/day x 2 persons	\$	<u>960.00</u>
	\$	960.00
Vehicle Costs		
12 days @ \$50/day	\$	<u>600.00</u>
	\$	600.00
Report Preparation		
S. Paterson, 1 day @ \$200/day	\$	<u>200.00</u>
	\$	200.00
Total	\$	<u>7,324.00</u>

15.0 STATEMENT of QUALIFICATIONS

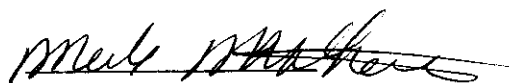
We, Mr. Merle Matherly and Ms. Sheran Paterson, of 150 Mile House, B.C. do certify that:

1. We are prospectors and maintain valid free miner's permits.
2. We have attended the Prospector's Course at Cariboo College, 1979, (instructor: Dr. Gary Bysouth, senior geologist, Gibraltar Mines Ltd., McLeese Lake, B.C.)
3. We have completed the Advanced Mineral Exploration Course for Prospectors, Ministry of Energy, Mines and Petroleum Resources, B.C. :

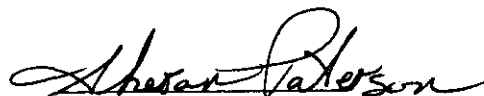
Merle Matherly at David Thompson University Centre,
Nelson, B.C., 1981

Sheran Paterson at Northwest College, Terrace, B.C.,
1982

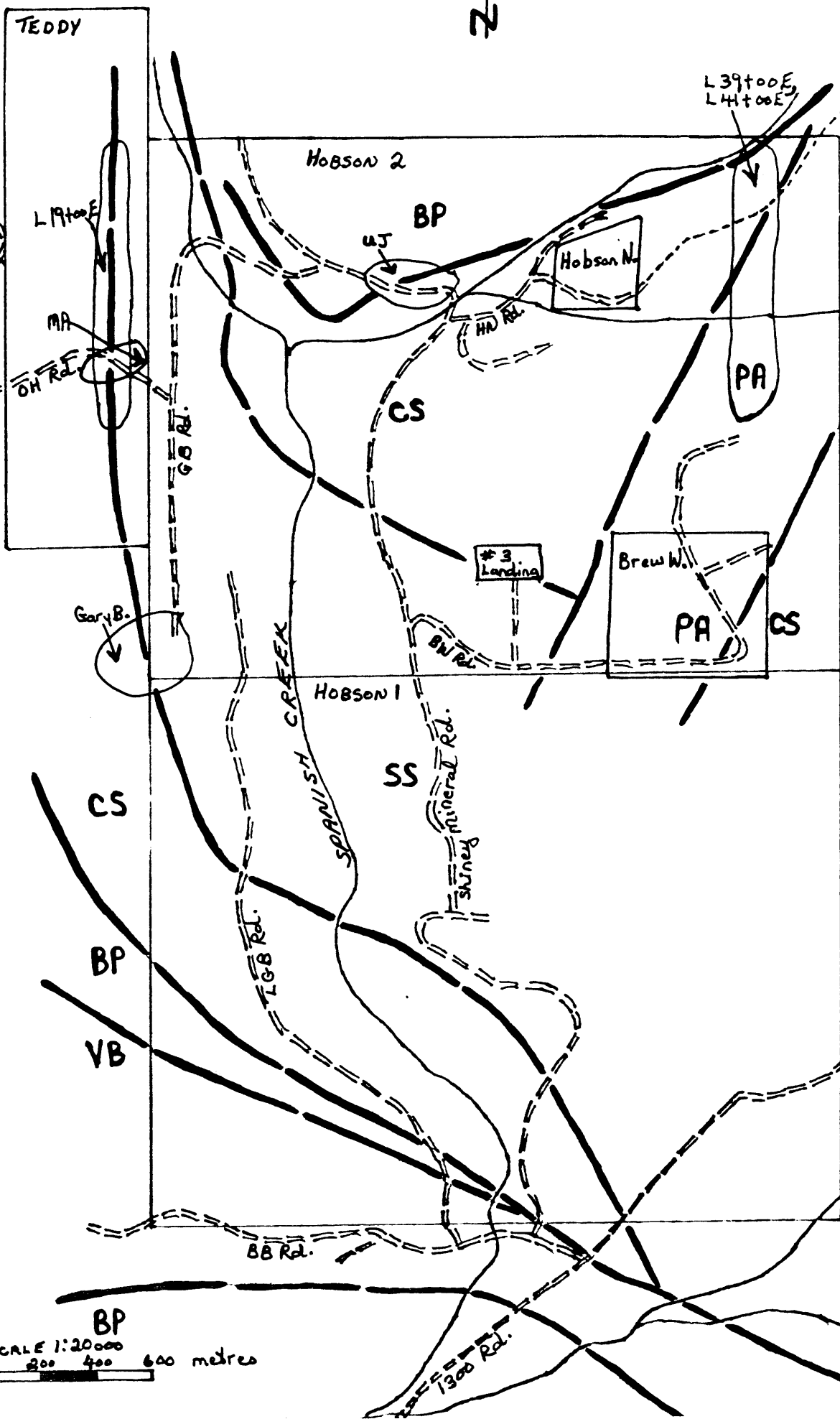
4. From 1978 to the present, we have been actively engaged in field exploration.
5. We personally executed and supervised the work program as described, and have compiled and analyzed the resulting data.



Merle Matherly



Sheran Paterson



SPANISH CREEK PROPERTIES
LEGEND
 Regional Geology or Location Map NTS 93 A/11W

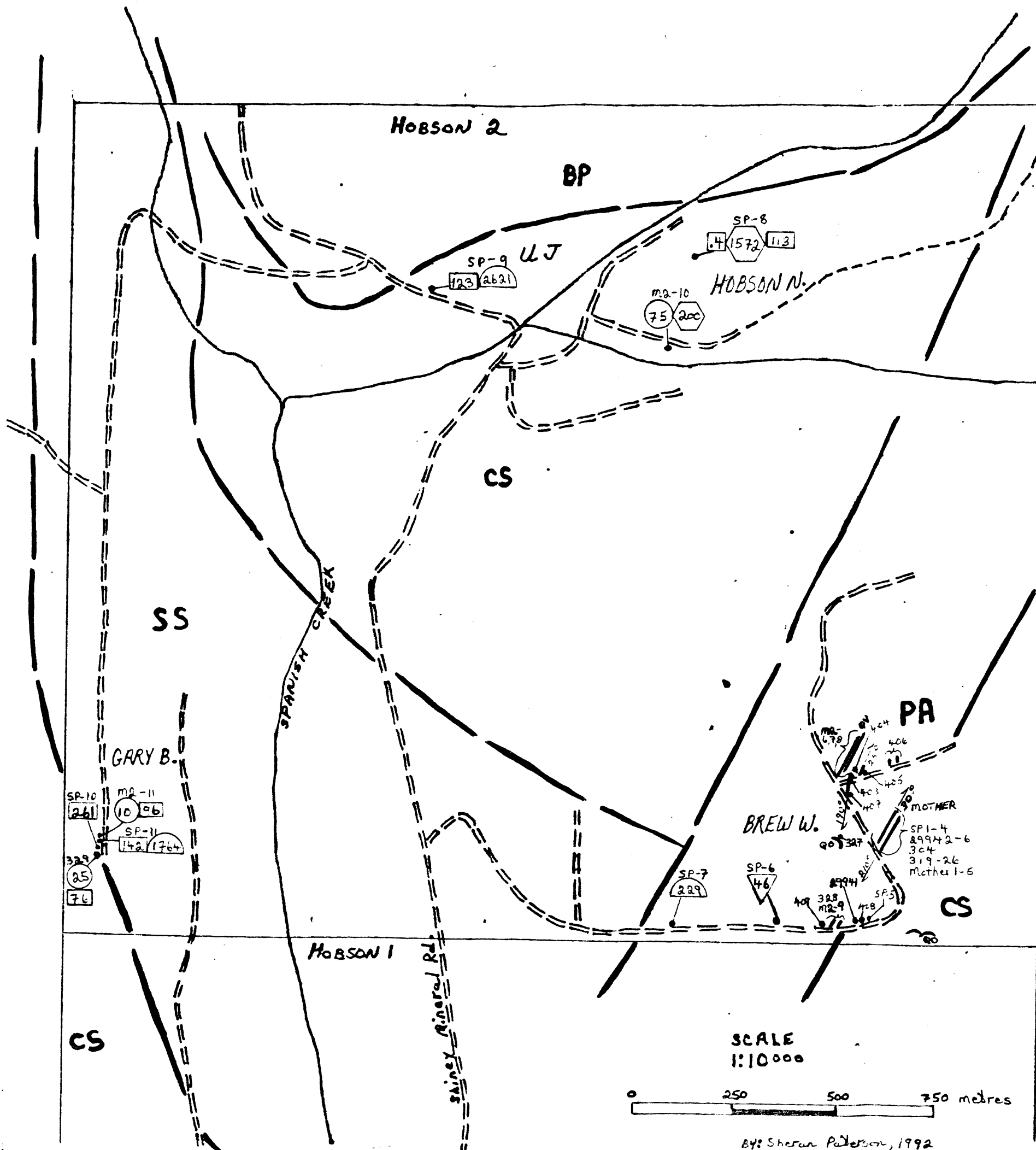
□ zones - Brew W. Hobson N., #3 Landing

PA pyrite alteration
 CS chlorite schist
 SS sericite schist
 BP black phyllite
 VB volcanic breccia

⊙ prospecting targets

BP
 SCALE 1:20000
 0 200 400 600 metres

By: Alan Peterson, 1971



LEGEND

SPANISH CREEK PROPERTIES
 HOBSON 2 claim
 NTS 93 A/11W
 General Sample Location Map
 with Regional Geology

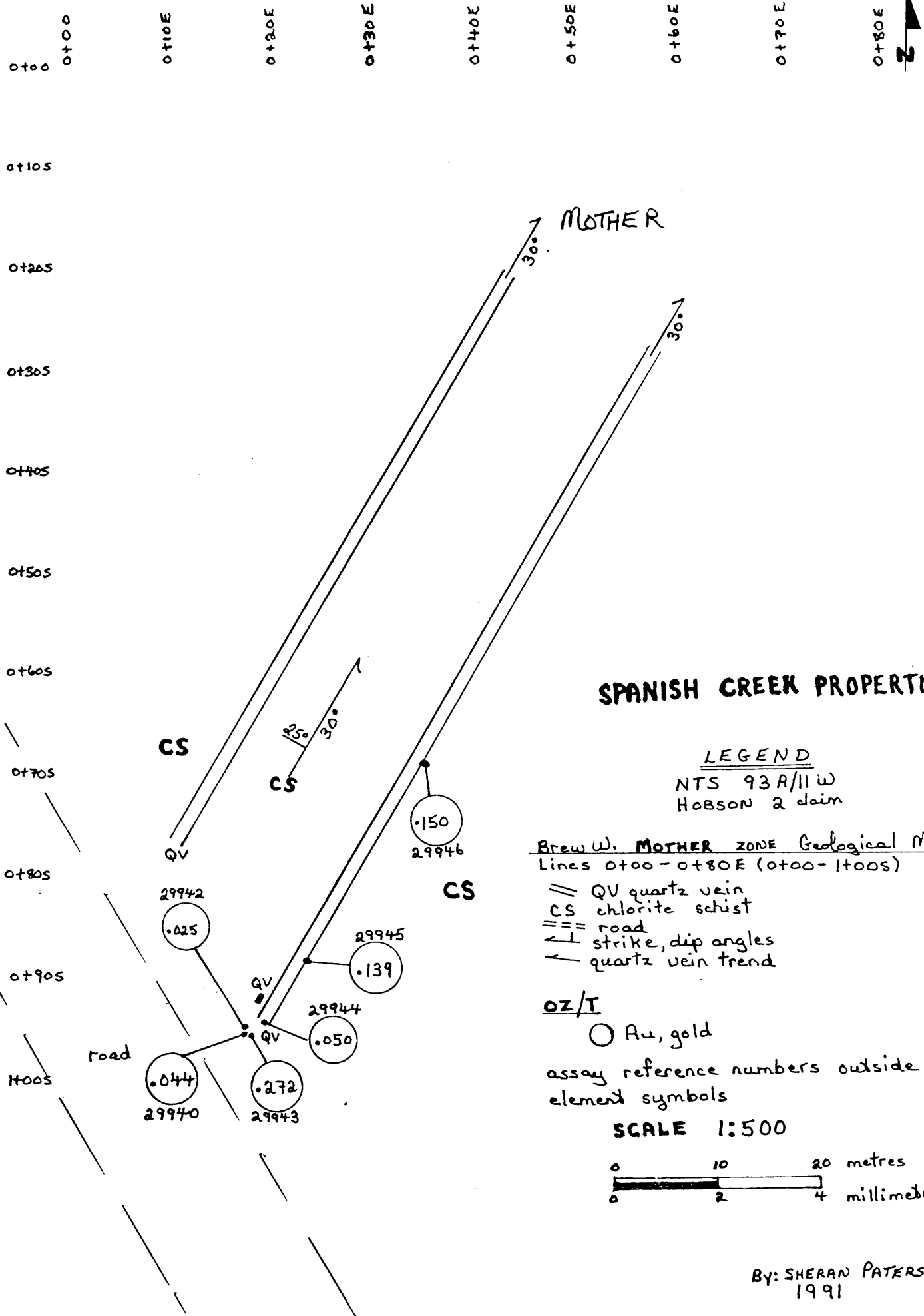
- QV // quartz vein
- QO ~ quartz outcrop
- QV → quartz vein trend

- BP black phyllite
- CS chlorite schist
- SS sericite schist
- PA pyrite alteration

- PPb ○ Au, gold
 - PPM □ Ag, silver
 - Cu, copper
 - ▽ Pb, lead
 - Zn, zinc
 - △ Mn, manganese
- values with corresponding assay numbers

SCALE 1:10000





SPANISH CREEK PROPERTIES

LEGEND
 NTS 93A/11W
 HOBSON 2 claim

Brew W. MOTHER ZONE Geological Map
 Lines 0+00 - 0+80E (0+00 - 1+00S)

- == QV quartz vein
- CS chlorite schist
- === road
- ↖ strike, dip angles
- ← quartz vein trend

OZ/T

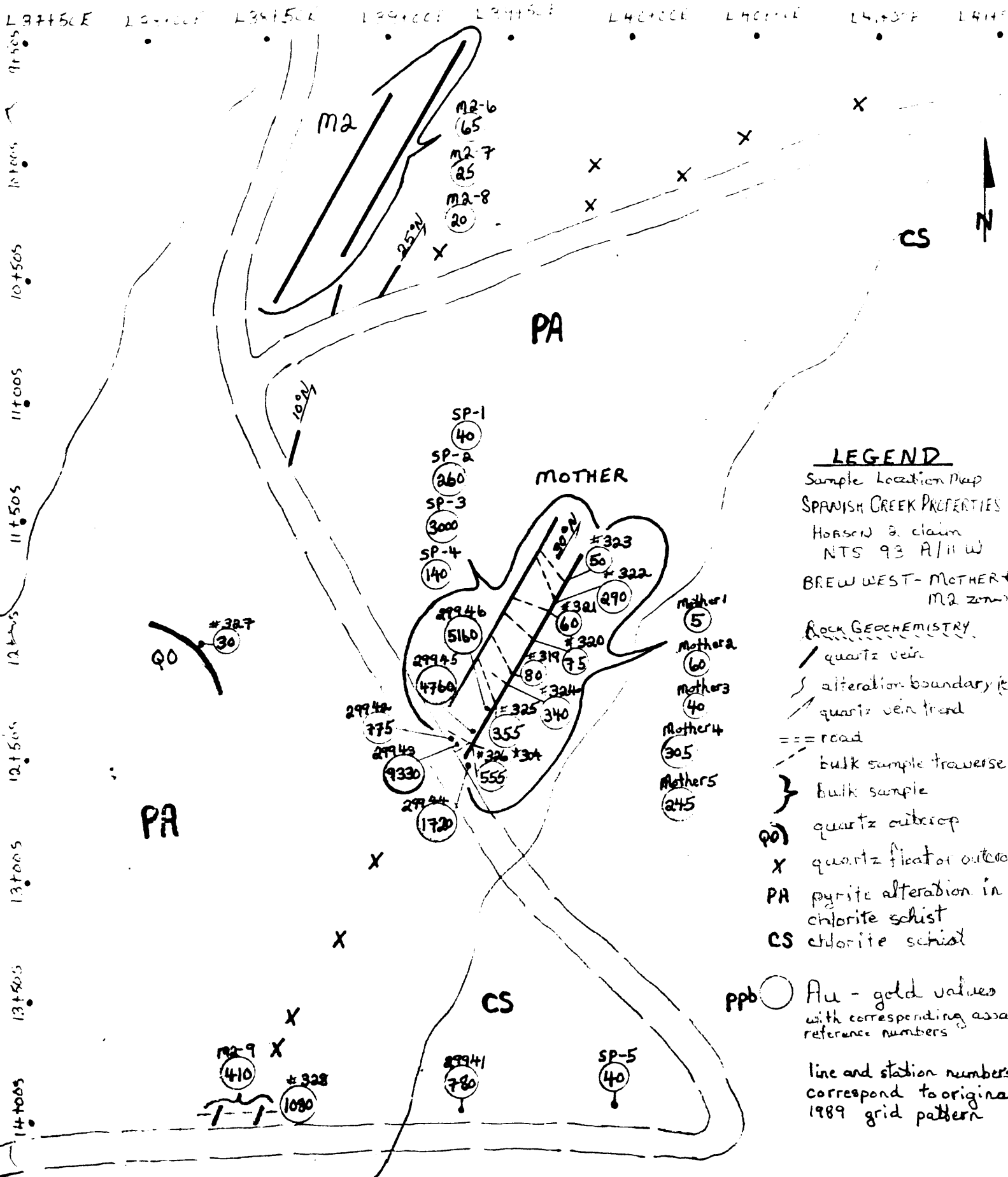
○ Au, gold

assay reference numbers outside element symbols

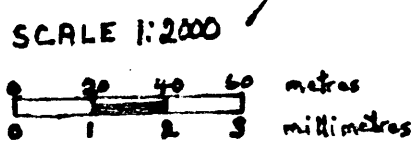
SCALE 1:500



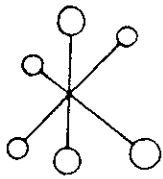
By: SHERAN PATERSON,
 1991



- LEGEND**
- Sample Location Map
 - SPANISH CREEK PROPERTIES
 - Hobson & claim
 - NTS 93 A/11 W
 - BREW WEST - MOTHER + M2 zones
 - ROCK GEOCHEMISTRY
 - quartz vein
 - - - alteration boundary (est)
 - - - quartz vein trend
 - == road
 - - - bulk sample traverse
 - } bulk sample
 - Q0 quartz outcrop
 - X quartz float or outcrop
 - PA pyrite alteration in chlorite schist
 - CS chlorite schist
 - ppb Au - gold values with corresponding assay reference numbers



By: Sheran Peterson, 1992



ECO-TECH LABORATORIES LTD.

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

25.
FIG-18

JULY 25, 1991

CERTIFICATE OF ANALYSIS ETK91-460

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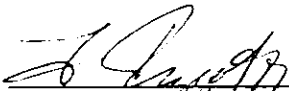
SHINEY MINERAL EXPLORATION
BOX 422
150 MILE HOUSE, B.C.
VOK 2G0

ATTENTION: MERLE MATHERLY

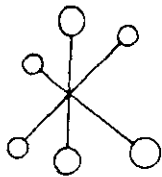
SAMPLE IDENTIFICATION: 6 ROCK samples received JULY 16, 1991

ET#	Description	AU (ppb)	AG (ppm)	CU (ppm)	ZN (ppm)	PB (ppm)
1 -	29941	780	1.3	134	20	82
2 -	29942	775	1.4	160	28	95
3 -	29943	>1000	5.2	115	47	132
4 -	29944	>1000	<.1	23	5	36
5 -	29945	>1000	.4	140	56	57
6 -	29946	>1000	<.1	22	8	19

NOTE: < = less than



ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI
B.C. CERTIFIED ASSAYER



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FIG. 19

20

JULY 25, 1991

CERTIFICATE OF ASSAY ETK91-460

SHINEY MINERAL EXPLORATION
BOX 422
150 MILE HOUSE, B.C.
VOK 2G0


ATTENTION: MERLE MATHERLY

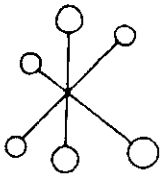
SAMPLE IDENTIFICATION: 6 ROCK samples received JULY 16, 1991

ET#	Description	AU	
		(g/t)	(oz/t)
3 -	29943	9.33 *	.272
4 -	29944	1.72	.050
5 -	29945	4.76	.139
6 -	29946	5.16 *	.150

NOTE: < = less than

* SAMPLE SCREENED AND METALLIC ASSAYED


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FRANK J. PEZZOTTI
B.C. CERTIFIED ASSAYER



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27.
FIG. 20

METALLIC CALCULATION

SAMPLE NUMBER	-140 VALUE	+140 VALUE	CALCULATED VALUE
460-3	9.310001	15.19435	9.327621
460-6	5.15	5.581396	5.150729

SPANISH CREEK PROPERTY

Mattely / Paterson

23 August 1991

SAMPLE No
(Lab No)

SIZE

DESCRIPTION

304

Grab

Solid milky quartz with coarse semi massive pyrite at margins to vein. outer to pyrite is a zone of semi massive hematite, goethite. Within the quartz occurs coarse tabular hematite crystals and local bleby fracture controlled coarse Py.

319

80

Green med grained 'diarite' or meta andesite with local foliation sub parallel to quartz veining. Little wallrock alteration and sparse sulfides. Qtz and quite veggy. Milky qtz veins

320

75

Similar to above but foliated. feldspar are locally rotated. Milky qtz veins

321

60

Chloritic schist, finely foliated with local actinolite. ~~lt~~ Crenular cleavage. <1% disseminated Py. Milky quartz veins

322

215

Med green, foliated andesite, andesitic tuff sparse Py. local strong oxidation of ? with clay. milky qtz veins

323

50

Fractured milky quartz with coarse bleby of Cpy (1-3%) malachite staining. Chloritic schist

324

545

Strongly oxidized chloritic schist with milky quartz

325

555

Very similar to 319 'diarite' plus milky qtz veins

326

555

Chlorite > muscovite schist with milky quartz and local semi massive hematite/goethite.

327

50

Fine chlorite, sericite schist minor dissem Py. Milky quartz veining

328

1080

Felsic schist. feldspar + qtz local chlorite and or quartz shears. Milky quartz veining. Stringer / qtz veinlet zones have 2-5% fm pyrite and local bleby magnetite

329

25

Quartz matrix sparse sulfides. Wallrocks have coarse carbonate porphyroblasts dark matrix.



29.

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SEPTEMBER 5, 1991

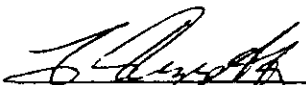
CERTIFICATE OF ASSAY ETK 91-695
=====

N. MOTHERLY
=====

DATE RECEIVED:	AUGUST 23, 1991	REJECTS:	STORE
PROJECT:	1K- SPANISH	PULPS:	STORE
NUMBER SAMPLES:	11	NOTE:	> = MORE THAN
TYPE SAMPLES:	ROCK		< = LESS THAN

=====

ET#	Description	Au	
		(g/t)	(oz/t)
10	328	1.08	.031


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

COPY

SC91/PLACERK

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

SEPTEMBER 5, 1991

VALUES IN PPM UNLESS OTHERWISE REPORTED

BT.	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
1 -	319	80	<.2	1.04	40	6	20	<5	.09	<1	14	69	17	3.18	.14	<10	.91	441	2	.01	12	230	6	<5	<20	5	.02	<10	45	<10	<1	29
2 -	320	75	<.2	1.08	65	6	10	<5	.05	<1	17	86	16	3.03	<.01	>10	.99	513	4	<.01	10	230	4	5	<20	5	<.01	<10	43	<10	<1	23
3 -	321	60	.2	.74	75	6	20	<5	.01	<1	15	71	12	3.32	<.01	<10	.56	645	2	<.01	10	220	6	5	<20	3	<.01	<10	39	<10	<1	35
4 -	322	290	<.2	.81	100	6	15	<5	.45	<1	25	62	51	5.48	<.01	<10	.76	426	4	<.01	8	300	28	10	<20	6	.02	<10	60	<10	<1	50
5 -	323	50	.4	.98	35	6	5	<5	.07	<1	14	91	166	2.79	<.01	<10	.93	395	2	<.01	16	200	8	15	<20	2	.02	<10	34	<10	<1	21
6 -	324	340	<.2	.72	80	6	10	<5	.03	<1	19	64	35	4.44	<.01	<10	.51	533	4	<.01	10	280	2	5	<20	4	.01	<10	44	<10	<1	30
7 -	325	355	<.2	.33	600	8	20	<5	.02	<1	27	99	20	9.71	<.01	<10	.36	262	4	<.01	19	370	44	10	<20	3	.01	<10	45	<10	<1	53
8 -	326	555	.4	.99	250	6	20	<5	.03	<1	23	80	31	6.37	<.01	<10	.81	591	5	<.01	21	280	16	10	<20	3	<.01	<10	43	<10	<1	39
9 -	327	30	<.2	.39	25	6	5	<5	.02	<1	7	65	10	1.73	.03	<10	.21	239	2	<.01	12	200	4	<5	<20	3	<.01	<10	4	<10	<1	28
10 -	328	>1000	2	.55	185	6	35	<5	.42	<1	27	92	89	6.40	<.01	<10	.37	621	5	<.01	22	480	8	10	<20	3	<.01	<10	59	<10	<1	34
11 -	329	25	<.2	1.14	15	8	70	<5	1.59	<1	28	224	6	2.92	1.01	<10	5.96	555	1	<.01	260	330	10	10	<20	146	.08	<10	56	<10	<1	76

NOTE: < = LESS THAN
> = GREATER THAN

SOIL/PLACER

Handwritten signature
COPY
ECO-TECH LABORATORIES LTD.
CLINTON AYERS

ECO-TECH LABORATORIES LTD.
 100-41 HWY TRANS CANADA HWY.
 KEMLOOPS, B.C. V2C 2J3
 PHONE - 604 - 573-5700
 FAX - 604 - 573-4557

Spanish Lake

P. 2

OCTOBER 21, 1991

VALUES IN PPM UNLESS OTHERWISE REPORTED

10.21.1991 16:26

RT#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SW	SR	TI(%)	U	V	W	Y	ZN
1 - MOTHER	1	5	.2	.05	10	6	20	<5	.18	<1	2	258	71	.65	.01	<10	.04	143	18	<.01	7	40	4	<5	<20	36	<.01	<10	9	<10	<1	16
2 - MOTHER	2	60	.6	.10	40	6	10	<5	.03	<1	9	158	56	2.64	.02	<10	.04	176	10	<.01	3	100	10	5	<20	9	<.01	<10	18	<10	<1	30
3 - MOTHER	3	40	.4	.03	30	4	<5	<5	<.01	<1	2	210	12	1.01	<.01	<10	.01	73	14	<.01	7	50	38	5	<20	2	<.01	<10	6	<10	<1	18
4 - MOTHER	4	305	<.2	.73	545	4	45	<5	.02	<1	50	82	64	13.30	<.01	10	.30	843	4	.02	29	710	36	15	<20	5	<.01	10	72	<10	<1	69
5 - MOTHER	5	245	.2	.05	390	4	10	<5	.01	<1	16	161	31	5.64	<.01	<10	.09	68	10	<.01	11	180	18	5	<20	1	<.01	<10	17	<10	<1	23
6 - M2	6	65	<.2	.01	20	12	<5	<5	<.01	<1	1	179	3	.43	<.01	<10	<.01	90	11	<.01	2	10	<2	<5	<20	1	<.01	<10	1	<10	<1	4
7 - M2	7	25	<.2	.05	50	4	5	<5	<.01	<1	1	245	6	.93	<.01	<10	.01	48	14	<.01	8	50	8	<5	<20	1	<.01	<10	<1	<10	<1	5
8 - M2	8	20	<.2	.31	30	4	20	<5	<.01	<1	9	83	7	1.76	.09	20	.04	411	5	<.01	14	190	2	<5	<20	3	<.01	<10	<1	<10	1	16
9 - M2	9	410	.8	.42	35	4	25	<5	.03	<1	18	166	79	3.76	<.01	<10	.18	523	11	.01	20	180	6	5	<20	3	<.01	<10	63	<10	<1	33
10 - M2	10	75	<.2	.12	10	6	5	<5	1.58	<1	13	154	200	2.25	<.01	<10	.60	684	9	<.01	12	160	2	5	<20	39	<.01	<10	38	<10	<1	18
11 - M2	11	10	<.2	.21	55	6	10	<5	3.95	<1	48	260	3	3.24	.13	<10	9.50	1079	2	<.01	656	<10	12	5	<20	488	<.01	<10	4	<10	<1	96

NOTE: < = LESS THAN
 > = GREATER THAN

- 1, 2, 3 - Qtz from Mother Veins
- 4 - altered wall rock around Mother Vein at road cut
- 5 - Quartz from Mother Vein at Road cut
- 6, 7 - Quartz from M2 vein
- 8 - altered wall rock at M2 vein
- 9 - Mother extension (300m south on Road cut below switch back)
- 10 - ZIT zone
- 11 - Gory B listwanite

[Signature]
 ECO-TECH LABORATORIES LTD.
 CLINTON AYERS
 LABORATORY MANAGER

Sorry about the error in the sample #'s done by the lab (ie. the sample #'s 6 to 11 labeled M2) this was the lab's fault. I guess they couldn't read the bars.

FROM ECO-TECH LABS

SC91/PLACER

END

SAMPLE DESCRIPTIONS

- 51 SP-1 Mother Zone, Brew West area
chip across 100 cm.
f. w. of qtz. vein
- 52 SP-2 Mother Zone
chip across 100 cm. of qtz. vein
weak sphalerite? and pyrite
- 53 SP-3 high grade pyritic zone
grab from above vein
pyritic zones in vein are 3 cm. - 5 cm. wide
- 54 SP-4 hematite altered, sericite altered host rock from
the Mother Zone.
- 55 SP-5 pyritic, chloritic, weak epidote altered, silicious
zone with minor quartz vein in centre.
from rear corner south of Brew West Zone.
- 56 SP-6 Rhyolite dykes with formational quartz vein and
fine stringers, fresh. Possibly related to Tertiary
volcanism. Tertiary basalt centre in general area.
- 57 SP-7 weak sericite altered silicious, pyritic schist.
- 58 SP-8 212 Zone; dissem. chalcopryrite in foliated Diorite
to Greenstone; appears to be related to qtz veins
plus or minus tourmaline
- 59 SP-9 pyritic, sericite altered schist, mariposite in
area near black phyllite contact.
- 60 SP-10 ultramafic; black, magnetic, pyritic zone possibly
along Eureka Thrust.
- 61 SP-11 listwanite alteration, approx. 1 m. wide.

Rosbacher Laboratory Ltd.

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Phone: (604) 299-6910
Fax: (604) 299-6252

TO:

PROJECT:
ANALYSIS:

CERTIFICATE: 91248
INVOICE: 28354
DATE: 91-09-08
FILE: TKS91248.1
PAGE: 1

Certificate of Analysis

PRE FIX	SAMPLE NAME	PPM NO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM Mn	x FE	PPM AS	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	x CA	PPM P	PPM LA	x CR	PPM MG	x BA	x TI	x AL	x Mn	x K	PPM V	PPM ME	PPM Au	PPM Pb	
A	SP-1	2	44	12	63	0.1	34	49	883	7.28	75	4	1	2	2	39	0.05	0.04	4	27	0.18	35	0.01	0.09	0.05	0.12	1	1	40		
A	SP-2	1	31	18	25	0.1	9	18	79	2.77	138	1	1	5	2	16	0.03	0.11	1	40	0.02	8	0.01	0.06	0.02	0.01	1	1	268		
A	SP-3	3	268	78	41	3.4	16	41	39	19.85	1432	3	18	12	2	2	0.02	0.07	2	1	0.04	26	0.01	0.04	0.06	0.01	1	1	3888		
A	SP-4	2	379	19	54	0.1	3	11	116	4.86	139	3	1	6	2	43	0.01	0.06	3	23	0.01	18	0.01	0.31	0.03	0.28	1	1	148		
A	SP-5	7	323	8	54	0.4	27	82	387	15.81	22	21	5	2	2	93	0.15	0.07	2	1	1.71	26	0.36	2.47	0.07	0.01	1	2	48		
A	SP-6	2	31	46	35	0.1	28	17	98	0.89	27	187	1	9	15	11	1.82	0.11	16	31	0.13	18	0.18	0.95	0.04	0.01	4	1	5		
A	SP-7	2	44	9	58	0.1	17	11	229	2.76	8	13	1	2	2	6	0.21	0.08	33	25	0.63	35	0.01	1.06	0.03	0.13	1	1	5		
A	SP-8	2	1572	1	113	0.4	19	58	1436	6.83	11	8	2	2	2	111	1.48	0.09	3	12	1.74	85	0.01	2.41	0.05	0.01	2	2	5		
A	SP-9	2	36	1	123	0.1	13	28	2621	8.19	2	51	3	2	2	41	4.97	0.05	5	7	1.04	28	0.01	0.96	0.07	0.05	1	1	5		
A	SP-10	2	26	1	261	0.1	68	83	585	9.24	25	64	3	2	2	292	1.47	0.06	1	13	6.68	145	0.39	5.29	0.18	5.28	2	8	5		
A	SP-11	7	28	8	142	0.1	728	63	1764	3.42	2	1168	3	2	2	15	0.38	0.07	18	43	18.82	38	0.01	0.34	0.07	0.33	4	2	5		

CERTIFIED BY: *J. Rosbacher*