BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1997/1998
REPORT #:	PAP 97-2
NAME:	BARBARA WELSH

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Requirements/Regulations, section 15, 16 and 17.**
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (*see* section 16) required with this TECHNICAL REPORT.

Name BARBARA WELSH Reference Number 97/98 - P7

LOCATION/COMMODITIES

Project Area (as listed in Part A) CHIEFTAIN - EUREKA MINFILE No. if applicable 082KSW 054 082KSW 171

Location of Project Area NTS 82K/4E Lat 50°-02' Long 117°-40'

Description of Location and Access ACCESS IS VIA THE CARIBOU CREEK FOREST ACCESS ROAD, ON THE SOUTH SIDE OF CARIBOU CREEK, 22 km FROM BURTON

Main Commodities Searched For Au Ag Pb Zn Cu

Known Mineral Occurrences in Project Area CHIEFTAIN (82KSW054) - AuAgPbZnCu, EUREAKA (82KSW171) AgPbZnAu, EUREKA SOUTHEAST (82KSW) AgPbZnAu

WORK PERFORMED

1. Conventional Prospecting (area) 250 Ha.
2. Geological Mapping (hectares/scale) 250 Ha
3. Geochemical (type and no. of samples) ROCK SAMPLES - 22
4. Geophysical (type and line km)
5. Physical Work (type and amount) CLAIM STAKING 12 UNITS
6. Drilling (no,. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities Au Ag Pb Claim Name HAGGIS

Location (show on map) Lat Long Elevation

Best assay/sample type		Au	Ag	Pb
SAMPLE	CH-03	23.4 g/t	5152 g/t	8.94 %
	CH-17	15.4 g/t	40.3 g/t	0.28 %

Description of mineralization, host rocks, anomalies BEST MINERALIZATION WAS SEEN IN THE CHIEFTAIN AND EUREKA ADITS, BUT LOWER GRADE MINERALIZATION WAS SEEN AS CARBONATE REPLACEMENT-TYPE AROUND TYEE AND PORTLAND CREEK OVER A WIDER AREA

Supporting data must be submitted with this TECHNICAL REPORT

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act.*

CHIEFTAIN-EUREKA

The area prospected, shown on the accompanying map, is located on the south side of Caribou Creek, in the Arrow Lakes District of the West Kootenays, southeastern British Columbia. The area staked contains what were formerly the Chieftain group of Crown Granted claims, now reverted, and listed as follows:

	Chieftain	L. 5845
	Mammoth No. 2	L 5841
	Dundas	L 5843
	Dutchess	L. 5846
	Silver Tip No. 2	L. 5847
and 400 m. to the east,	Portland	L. 5856

There are three adits and several open cuts on the Chieftain group.

On the east side of the claims are the Eureka (Eureaka) showings, which were explored in 1934 and 1935 by two adits and an inclined shaft at 1310 m., 1360 m., and 1390 m. elevation, respectively.

A sample from the upper adit on the Chieftain claim assayed 23.4 g/t Au (0.68 oz/ton), 5152 g/t Ag (150.25 oz./ton), 8.94% Pb, and 0.25 % Cu. A sample from the middle Eureka adit ran 15.4 g/t Au (0.449 oz/ton), and 40.3 g/t Ag (1.18 oz/ton). Virtually all of the rock samples collected exceeded one oz/ton Ag, and were anomalous in As, Pb and Zn.

In September 1997, the showings that could be verified were staked as "Haggis", "Haggis 2", and "Haggis 3" (Mineral Tenure No.'s 359285,359286, and 359288, respectively). As well as taking in the mineralized showings, the claim encompasses a pronounced As-Ag-Au-Pb (Zn) anomaly which was delineated by a geochemical survey described in Assessment Report # 12,375.

History

The Chieftain group was first staked in the 1890's, and much of the underground development was completed prior to 1903. The property remained idle until 1920, when it was re-examined by a government engineer. Ministry of Mines Annual Reports record attempts to achieve production in the period between 1928 and 1934. In 1934, five tons were mined, and in 1955, three tons were mined, and metal recoveries were as follows:

	1934	1955
gold	0.80 oz/ton	0.17 oz/ton
silver	77.86 oz/ton	24.0 oz/ton
lead	1.66%	1.02 %
zinc	1.50 %	0.57 %

In 1996, the authors carried out a heavy mineral stream sediment sampling program on Caribou Creek, which identified a strong gold anomaly in the creek between Tyee and Walton Creeks. In fact, cursory gold panning of Chieftain Creek yielded significant , though very fine-grained, gold. In 1997, a follow-up prospecting program was conducted.

The higher-grade gold-silver-lead samples were confined to the well-mineralized graphitic shear zones which were explored by the Chieftain and Eureka adits. However, the large geochemical anomaly across the entire hillside implies the presence of more widespread mineralization.

Location and Access

The Haggis claims are well situated in terms of access and infrastructure. Two good logging roads lead to either side of the claim block, and Ministry of Forests personnel suggested that a new cut block is tentatively planned for the area, which would lead to new road construction. The claims are approximately 22 km. From Burton on the Caribou Creek road, and 32 km. From Hills Siding on the Shannon Creek road. In addition, the claims lie within an area described by land use planners as being an "enhanced resource extraction area".

The topography is steep, rising from 1165 metres at Caribou Creek, to 1820 metres elevation at the top. The hillside is covered by thick underbrush, mature cedar, fir and hemlock, and a thick network of fallen timber. Overburden is estimated to be from 1 - 10 metres thick, and consists of glacial till.

Geology

The claims are underlain predominantly by rocks of the Triassic to Lower Jurassic Slocan Group. The lower sequence is comprised of one or more limestone beds intercalated with argillite, phyllite, and quartzite. These limestone beds were mapped by previous workers as "quartzite" and "andesite", but they do in fact effervesce rapidly when exposed to hydrochloric acid. The limestone has been extensively replaced by silica, and contains ubiquitous disseminated galena, and pyrite. The Eureka shear zone is hosted by rocks of the lower sequence of the Slocan Group.

Calc-silicate rocks are seen to the east of both the Chieftain and Eureka shear zones, and are deemed to be altered members of the lower sedimentary sequence of the Slocan Rocks. This lower sequence is generally host to the stratabound "replacement"- type deposits which are widespread in the Slocan mining district. However, this deposit can be

distinguished from most of the other Pb-Zn-Ag deposits in the Slocan by its significant gold content.

The upper sequence of the Slocan Group is composed of argillite, phyllite, and quartzite. Near the top of the sequence strata become tuffaceous, passing into meta-dacite and meta-andesite flows and tuffs. The Chieftain shear zone is hosted by this upper sequence.

Conclusions

This prospecting program, along with previous work on the property, has identified excellent potential for a large, bulk-mineable gold-silver-lead-zinc deposit, enhanced by the presence of locally-enriched, high-grade shear zones. Additional exploration work is clearly justified, since outcrop exposures are rare, in order to prove what the geophysical, geochemical, and prospecting surveys have indicated.

ROCK DESCRIPTIONS

CH-01 from Chieftain access road, 350 m. west of adits
black, fine-grained meta-basalt, interbedded with tuff
fractured, slatey cleavage. Silicified, disseminated pyrite, sphalerite, bornite (cerussite crystals along fracture surface).
210°/45 NW

CH-02 200 m west of adits, along Chieftain road.
similar to CH-01 but highly sheared, yellow staining along fracture surfaces.

CH-03 Chieftain top adit, east side of portal
quartz vein in graphitic shear; galena, arsenopyrite, chalcopyrite (azurite staining over quartz), native silver.

CH-04 Chieftain top adit, vein on bench below portal
disrupted, folded quartz vein with galena, pyrrhotite.

CH-05 Chieftain lower adit, wall rock west side of portal
rusty argillite, very fine-grained sulphides

CH-06 east of lower adit, at end of road.
rusty to buff weathering recrystallized metasediments, silicified, disseminated sulphides and biotite

CH-07 Chieftain lower adit, vein at end of cross-cut
faulted quartz vein with marcasite, galena, black silver ore

CH-08 grab, muckpile in west drift, lower adit
quartz vein in graphite, galena, black silver, marcasite

CH-09 lower adit, footwall slash in east drift
black, crumbly graphitic ore (like Millie Mac ore).

CH-10 lower adit, north wall, 5 feet back from face in east drift
quartz vein, ribbony, sheared quartz mixed with fine-grained sulphides and black ore.

CH-11 bottom road to Caribou Creek bridge, east of intrusive
contact; graphitic, rusty slate, disseminated pyrite

CH-12 bottom road, above Chieftain creek
recrystallized meta-volcanic, micaceous, yellow stained.

CH-13 bottom road, near Chieftain shear
similar to CH-12, with green and yellow oxide staining

CH-14 Tyee Creek, east side at road.
orange-weathering, medium-grained dolomite, disseminated pyrite, pyrrhotite, arsenopyrite.

CH-15 Tyee Creek, about 50 m upstream from CH-14
small mineralized quartz vein in dolomite.

CH-16 Eureka Creek, west side, where gully narrows.
dark grey, medium-grained, massive and siliceous limestone, disseminated sulphides.

CH-17 Eureka Creek, stream bank about 180 m upstream from CH-16
at middle adit (adit in west bank curves east under creek).
abundant sulphides (galena, sphalerite, pyrite, coarse native silver, and visible gold) in a strongly sheared quartz vein. No graphite evident.

CH-18 east of top Chieftain top adit, along road extension.
numerous small, crumbly quartz veins, highly folded and sheared, with fine-grained sulphides.

CH-19 southeast of Chieftain top adit, approx 80 m uphill.
strongly sheared graphitic volcanic (andesite), with disseminated sulphides and bornite.

CH-20 approx. 100 m above top Chieftain adit.
quartz vein in recrystallized schist, disseminated sulphides.

CH-21 Portland crown grant, east bank of creek, east tributary above slide; medium-grained, brown limestone or dolomite, similar to that found at Tyee Creek, but brown in colour, disseminated sulphides.

Ch-22 uphill from Chieftain, along old trail to "Uncle Sam" claim.
medium grey andesite, disseminated pyrite, molybdenite, in small veinlets at quartz blebs.

BRITISH COLUMBIA
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PROSPECTING REPORT FORM (continued)

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- **Refer to Program Requirements/Regulations, section 15, 16 and 17.**
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Name BARBARA WELSH Reference Number 97/98 - P7

LOCATION/COMMODITIES

Project Area (as listed in Part A) QUARTZ CREEK MINFILE No. if applicable N/A

Location of Project Area NTS 82N/6W Lat 51°-22'-45" Long 117°-18'-03"

Description of Location and Access ACCESS IS VIA THE QUARTZ CREEK FOREST ACCESS ROAD OFF HIGHWAY #1 40 km NW OF GOLDEN, TO A POINT APPROX. 14 km. SOUTH OF THE HIGHWAY; THE PROSPECTING AREA LIES ON THE WEST BANK OF QUARTZ CREEK.

Main Commodities Searched For Au Cu

Known Mineral Occurrences in Project Area PLACER Au (MINFILE 82N 018 — QUARTZ CREEK)

WORK PERFORMED

1. Conventional Prospecting (area) 120 Ha
2. Geological Mapping (hectares/scale) 120 Ha
3. Geochemical (type and no. of samples) ROCK SAMPLES - 6
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no,. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities N/A Claim Name N/A

Location (show on map) Lat Long Elevation

Best assay/sample type LIMESTONE CONTAINED ONLY DISSEMINATED PYRITE, MINOR MOLYBDENITE

Description of mineralization, host rocks, anomalies COPPER SHOWING AT BASE OF DIATREME OUTCROP, JUST BELOW BASIN, SHOWS NO CONTINUITY ALONG STRIKE; CAVES IN LIMESTONE ABOVE COPPER SHOWING ARE UNMINERALIZED. COPPER SHOWING CONSISTS OF A NARROW QUARTZ VEIN, STEEPLY-DIPPING AND X-CUTTING STRATIGRAPHY, CONTAINING PYRITE, CHALCOPYRITE, PYRRHOTITE, AND ABUNDANT MALACHITE STAINING.

Supporting data must be submitted with this TECHNICAL REPORT

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PRAIRIE HILLS

Exploration was centred around a copper showing on the west side of Quartz Creek, just south of Dauntless Mountain. There is strong malachite staining around a well-mineralized quartz vein, which assayed 2.2 % copper, mostly in the form of chalcopyrite, but did not contain other ore-bearing minerals. The rocks are predominantly calcareous sediments, dolomite and limestone, and immediately above the copper vein is a cave, and a large down-faulted basin which lies directly below a diatreme. The basin is filled with slabs and boulders of volcanic breccia. The talus slope below the cave contains abundant pieces of solution-collapse breccia. It was hoped that more mineralization could be found along strike, in adjacent creek gullies, or associated with the cave (replacement-type ore), or with the volcanics that occur along an erosional unconformity between the Cambrian Donald formation and the underlying Hamill Group. As it turned out, no additional mineralization was uncovered, and no claims were staked.

ROCK DESCRIPTIONS

PH-01 Precambrian Horsethief Creek Group -- slate division
--greenish-grey, medium-grained, fissile and thinly -layered, micaceous slate with disseminated pyrite.

PH-02 Precambrian Horsethief Creek Group -- carbonate division
--calcareous, medium-grained, buff-coloured sandstone. Layers are 10-15 cm thick with horizontal parting planes and vertical joints.

PH-04 Hamill Group
--greyish-white gritty quartzite, interbedded with argillite.

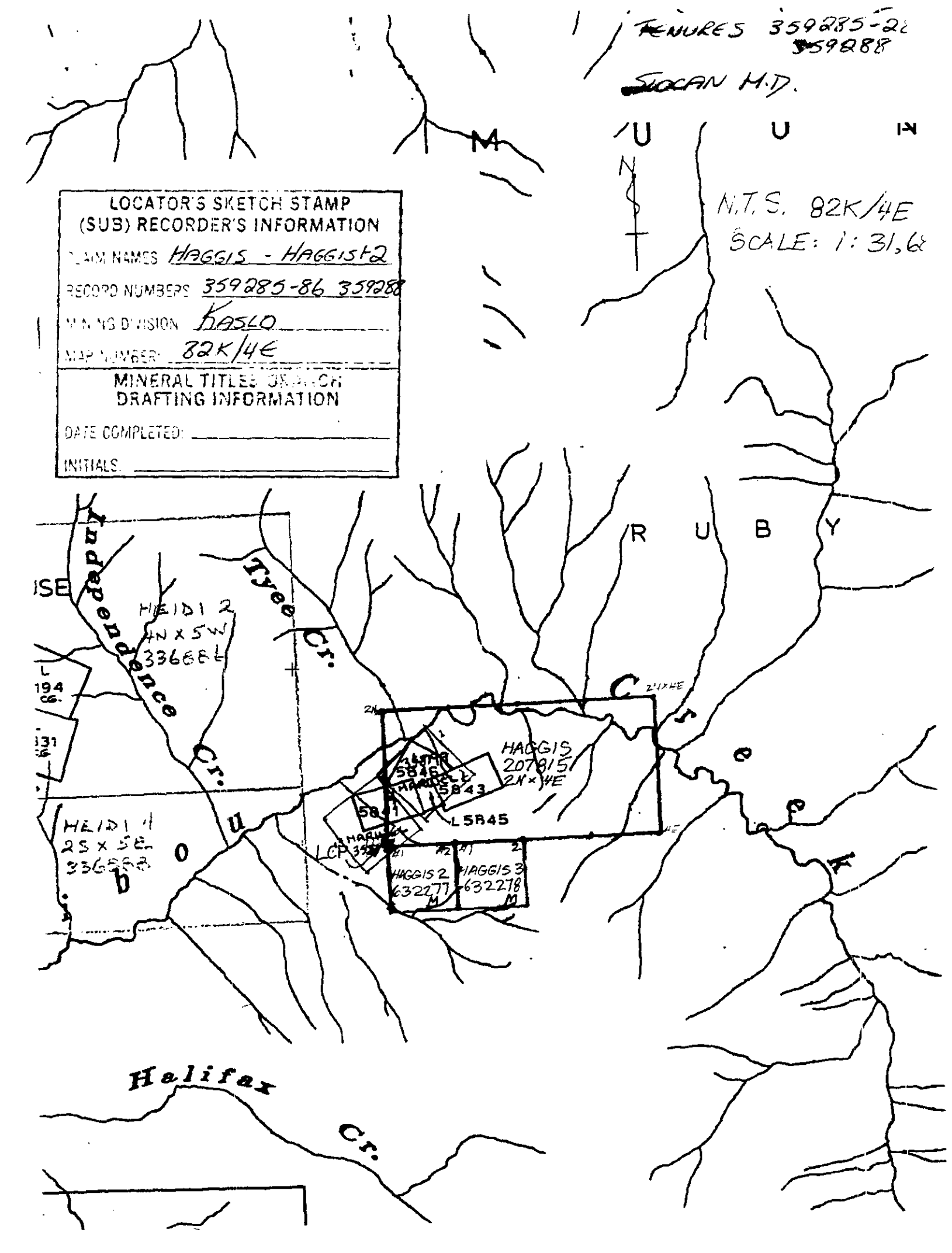
PH-03 Middle Donald fm.
--oolitic and pisolitic, partly sandy limestone, buff to orange weathering, interbedded with argillite and slate.

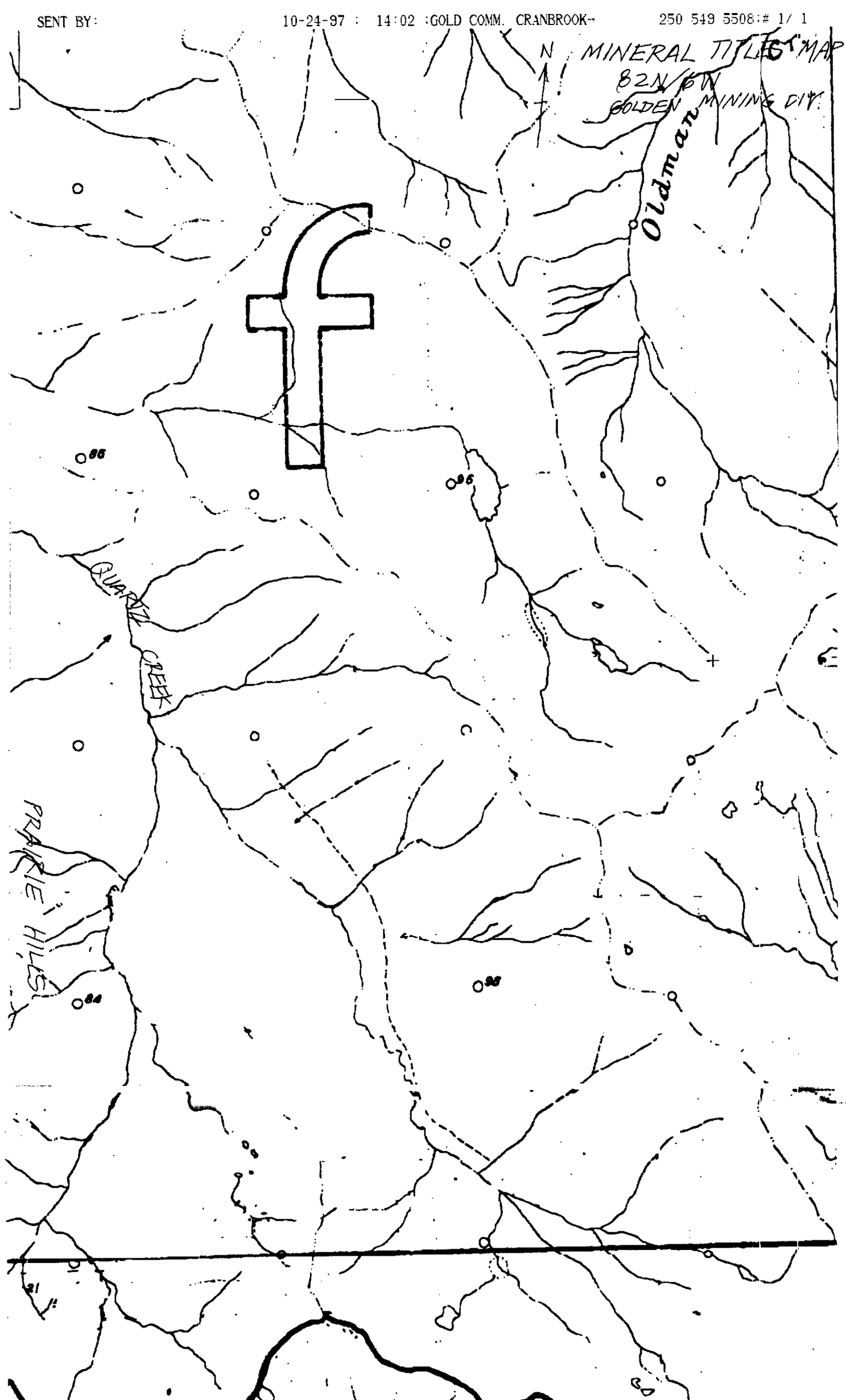
PH-05 Hamill-Donald unconformity -- Fish Lake volcanics
dark grey, gritty and sandy tuff, sheared andesite.

PH-06 volcanic breccia (talus & debris found in basin)
boulder-sized clasts of Hamill quartzite, suspended in a fine-grained porphyritic and chloritic groundmass (weathered from dark grey to green)

TENURES 359285-28
359288

SLOCAN M.D.




MINERAL TITLE MAP
82N/6W
GOLDEN MINING DIV.
N
Oldman
QUARTZ CREEK
PRAIRIE HILLS

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10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700
Fax (250) 573-4557

CERTIFICATE OF ASSAY AK 97 - 815

KETTLE RIVER VENTURES
619 North Fork Road, R.R # 1
LUMBY, BC
V0E 2G0

15-Aug-97

ATTENTION: William Welsh

No. of samples received:10
Sample type:Rock
PROJECT #: Not given
SHIPMENT #:Not given
Samples submitted by: William Welsh

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Pb (%)
3	CH-03	23.40	0.682	5152	150.25	8.94
4	CH-04	-	-	1852	54.01	1.25
5	CH-05	-	-	36.4	1.06	-
7	CH-07	-	-	66.6	1.94	-
8	CH-08	1.72	0.050	250.0	7.29	-
9	CH-09	-	-	46.4	1.35	-
10	CH-10	-	-	40.0	1.17	-
QC/DATA:						
Repeat:						
8	CH-08	1.75	0.051	-	-	-
Standard:						
Mpla		-	-	70.0	-	-
CPb		-	-	-	-	0.25
CZn		-	-	-	-	0.14

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ENVIRONMENTAL TESTING

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Fax (250) 573-4557

CERTIFICATE OF ASSAY AK 97-916

KETTLE RIVER VENTURES
619 NORTH FORK ROAD, RR #1
LUMBY, BC
VOE 2G0

28-Aug-97

ATTENTION: WILLIAM WELSH

No. of samples received: 5
Sample type: ROCK
PROJECT #: NONE GIVEN
SHIPMENT #:NONE GIVEN
Samples submitted by: WILLIAM WELSH

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
3	CH - 17	15.40	0.449	40.3	1.18
5	CH - 20	<.03	<.001	-	-

QC DATA:

Repeat:

3	CH - 17	15.92	0.464	-	-

Standard:

MPI-a		-	-	69.7	2.03

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ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700
Fax (250) 573-4557

CERTIFICATE OF ASSAY AK 97-815-2

KETTLE RIVER VENTURES
619 NORTH FORK ROAD, RR #1
LUMBY, BC
VOE 2G0

29-Sep-97

ATTENTION: WILLIAM WELSH

No. of samples received:10
Sample type:Rock
PROJECT #: Not given
SHIPMENT #:Not given
Samples submitted by: William Welsh

ET #.	Tag #	Au (g/t)	Au (oz/t)
9	CH-09	0.60	0.017

QC DATA:

Standard:		
STD-M	1.38	0.040

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XLS/97

15-Aug-97

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

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

ICP CERTIFICATE OF ANALYSIS AK 97- 815

KETTLE RIVER VENTURES
619 North Fork Road, R.R # 1
LUMBY, BC
V0E 2G0

ATTENTION: William Welsh

No. of samples received:10
Sample type:Rock
PROJECT #: Not given
SHIPMENT #:Not given
Samples submitted by: William Welsh

Values in ppm unless otherwise reported

Et #.	Tag #	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	CH-01	0.6	3.62	<5	80	<5	0.88	1	27	140	104	5.80	<10	2.37	716	<1	0.12	39	1350	198	15	<20	62	0.22	<10	226	<10	16	222
2	CH-02	1.2	2.20	5	265	<5	0.48	7	10	179	94	4.22	<10	1.21	349	16	0.10	29	1070	48	15	<20	48	0.15	<10	221	<10	16	369
3	CH-03	>30	0.04	300	<5	<5	0.01	62	1	208	2550	1.56	<10	<0.01	59	16	<0.01	8	<10	>10000	9660	<20	<1	<0.01	<10	3	<10	<1	580
4	CH-04	>30	0.09	75	15	<5	0.10	49	2	169	135	0.85	<10	0.01	172	5	<0.01	4	130	>10000	115	<20	11	<0.01	<10	2	<10	<1	2165
5	CH-05	>30	2.17	<5	250	<5	1.37	61	13	126	71	4.22	<10	1.79	749	10	0.01	62	1240	224	50	<20	21	0.10	<10	128	<10	43	950
6	CH-06	29.6	1.48	65	95	<5	0.90	1	12	93	29	3.90	<10	0.83	551	4	0.06	9	1100	114	35	<20	31	0.17	<10	61	<10	27	70
7	CH-07	>30	0.37	205	45	<5	4.45	19	10	43	87	4.38	<10	1.30	1539	8	0.01	19	1210	232	50	<20	373	<0.01	<10	12	<10	3	841
8	CH-08	>30	0.12	145	<5	<5	4.27	19	4	155	67	2.23	<10	0.11	599	7	<0.01	13	130	1048	90	<20	325	<0.01	<10	10	<10	<1	694
9	CH-09	>30	0.53	260	65	<5	5.08	16	14	103	52	3.89	<10	0.91	1072	18	<0.01	42	1120	124	35	<20	388	<0.01	<10	28	<10	12	683
10	CH-10	>30	0.19	105	5	<5	2.69	9	5	118	11	1.74	<10	0.32	454	8	<0.01	17	250	170	15	<20	145	<0.01	<10	11	<10	5	406
QC DATA:																													
Resplit:																													
1	CH-01	0.6	3.59	5	75	5	0.88	<1	27	145	104	5.75	<10	2.33	682	1	0.13	39	1400	120	25	<20	56	0.22	<10	222	30	19	196
Repeat:																													
1	CH-01	0.8	3.45	5	70	5	0.86	1	27	137	99	5.68	<10	2.27	689	<1	0.12	38	1400	184	20	<20	58	0.21	<10	216	<10	19	203
Standard:																													
GEO'97		1.2	1.69	60	155	<5	1.87	<1	18	64	81	3.93	<10	0.96	690	<1	0.02	24	690	22	15	<20	53	0.12	<10	75	<10	10	70

df/791b
XLS/97

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

28-Aug-97

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KAMLOOPS, B.C.
V2C 6T4

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

ICP CERTIFICATE OF ANALYSIS AK 97-916

KETTLE RIVER VENTURES
619 NORTH FORK ROAD, RR #1
LUMBY, BC
VOE 2G0

ATTENTION: WILLIAM WELSH

No. of samples received: 5
Sample type: ROCK
PROJECT #: NONE GIVEN
SHIPMENT #:NONE GIVEN
Samples submitted by: WILLIAM WELSH

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
1	CH - 13	1.2	1.21	35	195	<5	0.12	<1	8	104	75	3.72	<10	0.92	250	11	0.03	7	1190	30	20	<20	26	0.10	<10	109	<10	12	58
2	CH - 15	0.8	0.25	1880	50	10	3.80	<1	6	77	19	3.46	<10	0.69	1039	5	0.03	<1	730	22	15	<20	288	<0.01	<10	5	10	13	14
3	CH - 17	>30	0.21	5300	10	<5	>10	<1	5	144	54	2.26	<10	0.15	883	6	<0.01	1	110	2848	35	<20	271	<0.01	<10	5	<10	3	1087
4	CH - 19	4.6	1.51	25	110	<5	1.12	3	19	76	116	5.33	<10	1.08	613	9	0.02	36	1410	44	20	<20	49	<0.01	<10	48	<10	10	234
5	CH - 20	<0.2	0.77	10	80	<5	0.36	<1	4	156	8	1.93	<10	0.43	498	5	0.02	<1	270	12	10	<20	9	0.06	<10	28	<10	2	76
QC DATA:																													
Resplit:																													
1	CH - 13	1.0	1.20	40	185	<5	0.11	<1	8	92	79	3.85	<10	0.93	257	12	0.03	6	1270	34	15	<20	22	0.10	<10	108	<10	13	62
Repeat:																													
1	CH - 13	1.2	1.24	35	210	<5	0.12	<1	8	107	76	3.78	<10	0.94	257	15	0.03	9	1250	32	15	<20	24	0.10	<10	112	<10	13	62
Standard:																													
GEO'97		1.4	1.74	60	160	<5	1.75	<1	19	62	82	3.99	<10	0.96	655	<1	0.02	23	730	22	15	<20	57	0.11	<10	76	<10	9	71

df/909AA
XLS/97

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