

1978 SPRING/SUMMER PROGRAM

BAS CLAIM GROUP

UPPER KETTLE RIVER VALLEY, B. C.

Written for: ASSESSMENT PURPOSES

Submitted to: MINISTRY OF ENERGY, MINES
& PETROLEUM RESOURCES
VICTORIA, B. C.

Prepared by: R. W. YORKE-HARDY
P. O. BOX 2182
REVELSTOKE, B. C.
VOE 2S0

7259

R. W. Yorke-Hardy
26 APRIL 1979

KETTLE RIVER - BAS CLAIM GROUP

REPORT ON THE 1978 SPRING/SUMMER PROGRAM

I N D E X

INTRODUCTION 1

OUTLINE OF THE 1978 SPRING/SUMMER PROGRAM 1

DISCUSSION OF RESULTS 5

SUMMARY AND CONCLUSIONS 11

STATEMENT OF EXPENSES AND DETAILS
MAN DAYS WORKED APP.

* * * * *

PHOTOGRAPHS - 1 to 3)
FIGURES - 1 to 3) in report
SECTIONS - 0 n/s & 1S)
DRAWING - 1 - in back pocket

* * * * *

- APPENDIX A
1. Assay Results
 2. Statement of Expenses
 3. Government Geologists Report
 4. Regional Geology, Location and Claim Maps

INTRODUCTION

During the Spring and early Summer of 1978 a combined program of cat work and percussion drilling was undertaken.

The results of this program are herein discussed and are hereby submitted for assessment purposes.

OUTLINE OF THE 1978 SPRING/SUMMER PROGRAM

1. Preliminary Field Work: The weekend of April 29 was spent hand-cleaning culverts and diverting run-off water to prevent access roads from being washed out. Also, a sample across the exposed width of the HG vein was taken for metallurgical tests. A total of 4 man days labour were put in.

The weekend of May 6 was spent laying out areas to be stripped and/or trenched and the drill site locations. Also determined was where road improvement and/or construction was required to provide access to the planned work areas. A total of 6 man days labour were put in. Representatives from Interior Diamond Drilling Ltd. were on site to estimate drilling costs.

2. Cat Work: A D-8 cat was moved onto the BAS claims early on May 9, 1978, and subsequently worked until May 14, 1978.

During this period numerous areas were worked (See Dwg. #1).

- (a) HG Vein Area - A large area was stripped and an open cut excavated to expose the HG vein near 4E on line 3S. Attempts to prepare a drill pad above the vein were impossible, due to

2. (a) the wet ground conditions. These wet ground conditions, however, favored the stripping/excavating operations. Run-off water which mixed with the overburden being moved, allowed ~ 375 cu. m. (50 m x 3 m x 2.5 m) to be cleared in approximately 10 hours cat time.
- (b) Stockwork - Vuggy Vein Area - A new road was constructed to gain access to proposed drill sites. In total, approximately 500 meters of new road was constructed and three drill pads prepared. Numerous rock cuts were excavated which will facilitate geological mapping and possible surface sampling in the area above the vuggy veins (6E on line 1S).
- (c) Stockwork - Switchback Vein Area - A large area (50 m x 85 m) was stripped. Two drill sites and an access road were prepared in the vicinity of 10E on line 0ⁿ/_s.
- (d) Stockwork - Bluff Vein Area - Clean-up and stripping was undertaken in the vicinity of 14E on line 1S where a vuggy vein was exposed in 1975.
- (e) Pb Vein Area - Clean-up in the vicinity of 6E on line 10S was undertaken to improve the exposure on the vein which had been covered by sluffed material over the past two years.

The remaining cat time was utilized for minor road repair and clean-up.

3. Percussion Drilling: A total of 1082 feet (~ 330 m) of percussion drilling on five (5) sites was completed from May 20 to May 24, 1978. One day was lost due to mechanical breakdown but no expenses were

3. incurred because of the delay.

In retrospect, diamond drilling would have given better information than that obtained in the percussion drill program.

4. Clean-up of Cat Work Areas: During the period from May 20 to May 25, 1978, a three-man crew was working at hand mucking and washing down rock exposures in some of the cat excavations.

- (a) Washing the rock cut West of BAS 78 #1.
- (b) Washing and hand mucking in the vicinity of line 0ⁿ/_s - 10E.
 Veins encountered were heavily oxidized.
- (c) Washing and hand mucking of the area stripped in the vicinity of the Bluff vein (between lines 0 and 1S - ~14E) revealed several small stringers overlying the main vein. It was again apparent that heavy oxidization and leaching has removed most of the sulphide content. This zone could not be cut deeper to expose the main portion of this vein without disturbing road access.
- (d) Washing and hand mucking of portions of the HG vein excavation revealed moderate to heavy sulphides. Portions of the vein, were stripped along the surface exposure. The vein exposure in the cut bank of this open cut indicated only minor leaching of the semi-massive to massive sulphides. A path crossing the floor and following up the wall of the open cut was cleaned to allow mapping and sampling. (line 3S - 4E)

4. (e) Hand mucking of portions of the Pb vein near line 0S - 7E was undertaken to give better exposure of this vein for mapping and sampling.
4. Sampling and Geological Mapping: Al Rivard and Tom Lewis from the Geological Branch of the Department of Mines and Petroleum Resources were on site May 24 and 25, 1978. During this time they did some general geological mapping and took six samples in the vicinity of major vein exposures (See Appendix A). Two samples were taken by the writer, across the exposed width of the HG vein.

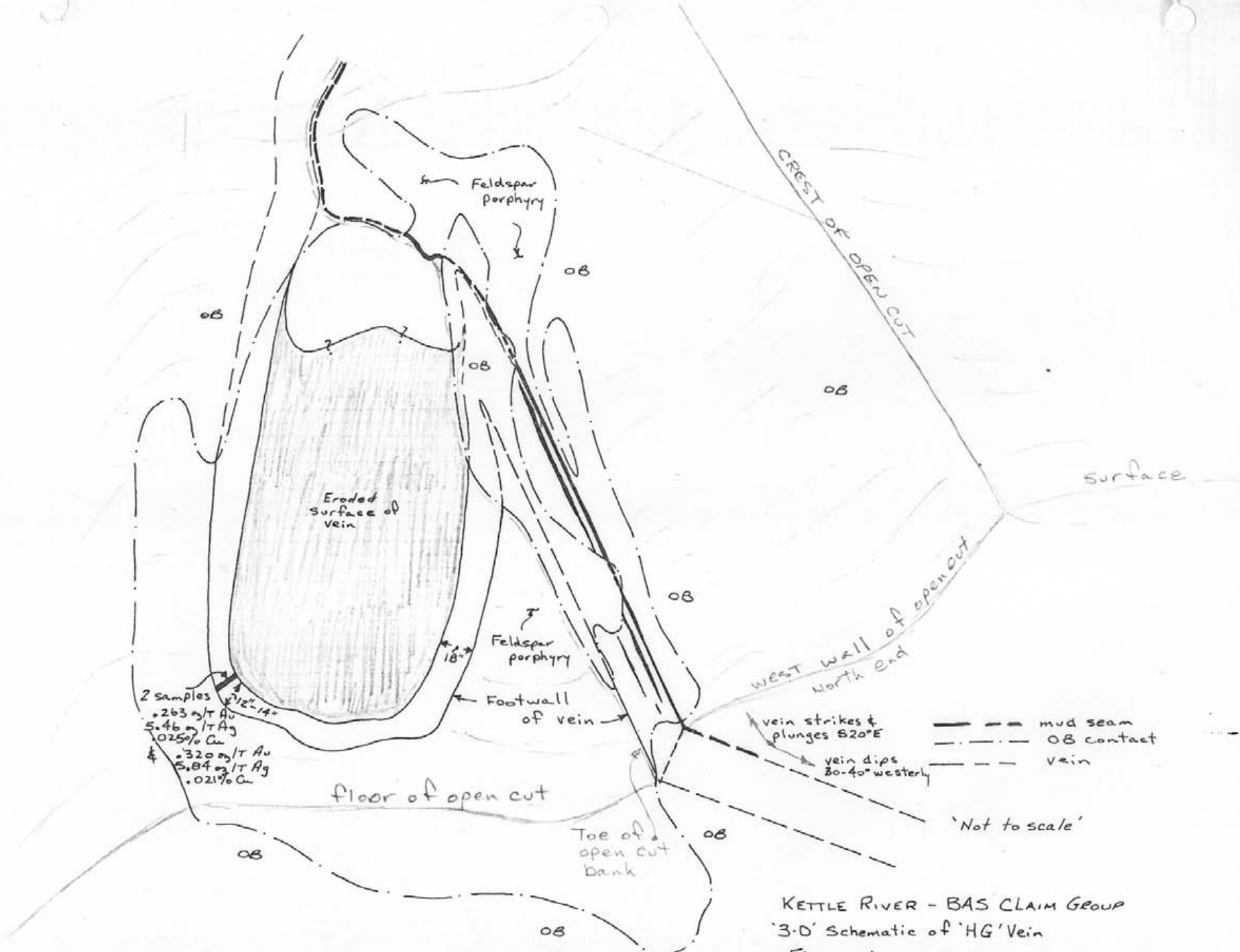
Generally speaking, each percussion drill sample interval was run for gold and silver. Composite samples from drill holes BAS 78 #3 and 78 #3A were run for gold and silver. Composite samples indicated sulphide zones were run for tungsten and five of these composites had 34 element spectrographic analyses run.

Check samples of the drill cuttings remaining on surface were taken in order to determine whether sampling techniques used by the drillers were adequate. Grab samples of more obvious sulphide-rich cuttings were taken to determine whether the sulphides carried values in gold and silver.

A number of rock samples were taken by Government Geologists for thin section study.

DISCUSSION OF RESULTS

1. Preliminary Field Work: The time spent on these two weekends avoided unnecessary road repairs and enabled the programs to be undertaken with a minimum of delay.
2. Cat Work: This portion of the program was by far the most successful. The cost of the cat work was low with respect to the accomplishments and the work resulted in significant discoveries.
 - (a) HG Vein Area - In the area of the HG vein the open cut excavation exposed over 33 m. of vein in the floor of the open cut and 13 m. in the West wall of the excavation. Two samples were taken at the North-East corner of this exposure. See Fig. 1. The portion of the vein in the West wall of the cut has been exposed for approximately 13 m. A mud seam like the one marking the hanging wall side of the vein, is exposed to 10 m. further to the South. It is likely that the vein underlies this mud seam. See Fig. 1 & 2 for sample locations and detailed geological mapping of the HG vein area.
 - (b) Stockwork - Vuggy Vein area: - A new road was constructed to give access to the stockwork and vuggy veins. Several drill sites were prepared but only two were used. BAS 78 #1 and #2 were drilled in this area. Several new exposures were made of the stockwork material in preparation for mapping. Further cat work will be required in this area to clean up the vuggy vein exposure and to trace this vein system to the South. Rock cuts near BAS 78 #1 and BAS 78 #2 indicated 1 - 5% sulphides



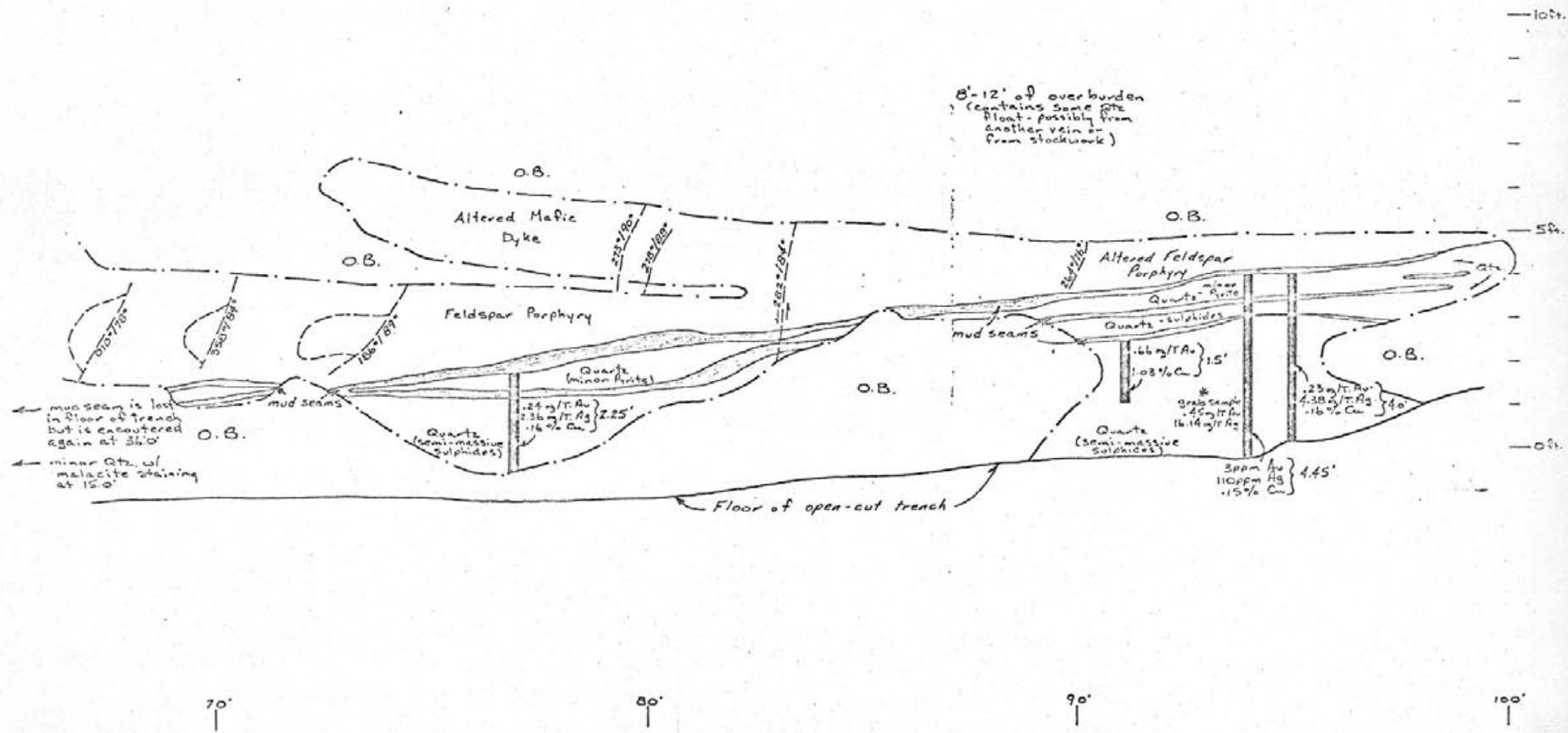
KETTLE RIVER - BAS CLAIM GROUP
 '3-D' Schematic of 'HG' Vein
 Figure 1

It is thought that the vein increases to 4 ft. thick under the mud and water in the top left corner.



Vein is 12" - 14" thick in lower left of picture.

PHOTO #1 - Looking South along floor of open-cut.



BRS CLAIM GROUP
HG' VEIN MAPPING
Scale: 1" = 25'
Figure 2

2. (b) in the less weathered feldspar porphyry stockwork material. The most intense weathering and leaching occurs with areas of most intense stockwork stringers.
- (c) Stockwork - Switchback Vein Area - The large area stripped at Line 0 - 10E lead to the discovery of the Switchback (SB) vein and additional stockwork material. No detailed mapping has been done at this location, so no evaluation of the findings has been made. Numerous mafic dykes have been injected into this area and have caused distortion of the stockwork and veining. Excessive oxidizing and leaching in the vein and stockwork stringers have left only remnants of the once heavy sulphides. BAS 78 #3, #3A and #4 were drilled in this area.
- (d) Stockwork - Bluff Vein Area - The area near the Bluff vein was stripped but due to hydraulic problems on the cat blade it was not possible to cut into the road edge to expose the main vein itself. Excessive leaching of the sulphides was evident along the hanging wall exposure of the main vein and in the smaller parallel stringers above it. Further catwork will be required before this area can be mapped and sampled.
- (e) Pb Vein Area - Clean up of the lead-zinc vein at the South and near line 10S was attempted but again, due to hydraulic problems, this area could not be cut down to give complete exposure of the vein. Three channel samples at 10 meter

PHOTO #2

Percussion Hole
BAS 78 #1



PHOTO #3

Percussion Hole
BAS 78 #3A
(#3 & #4 on either
side of this site)



2. (e) intervals were taken by the Government geologists. Further clean-up is required before detailed geological mapping and thorough sampling can be undertaken.

3. Percussion Drilling:

Hole BAS 78 #1 was drilled to a depth of 347 feet at an angle of -75° bearing 085° . Water loss around the casing was evident. This hole encountered two heavy sulphide zones, the second of which is believed to be the down dip extension of the vuggy quartz vein system. (See Section 1S). The top 45 to 50 feet were weathered and vuggy. Most of the hole was drilled in stockwork material with minor dyke intersections.

Hole BAS #2 was drilled to a depth of 200 feet at an angle of -90° . Variable amounts of sulphides were encountered throughout the top 190 feet of the hole. The entire hole was drilled in weathered stockwork and vuggy quartz veins. Variable water loss was evident throughout the entire hole. The last 10 feet of the hole revealed fresh feldspar porphyry or mafic dyke material. A 5 foot void or open zone was intersected from 100 to 105 feet with subsequent water loss and rapid penetration.

Hole BAS 78 #3 was drilled at -60° at bearing 090° , re-drill of BAS 78 #3A. The first 35 to 40 feet was drilled in weathered stockwork or vuggy vein material, the following 120 feet (to depth of 160 ft.) was fresh, unaltered feldspar porphyry and mafic dyke material. The section from 160 to 190 feet again indicated possible stockwork with

3. sulphides with the hole ending in mafic dyke material. The collar of this hole was grouted but water was still lost around the casing. No water loss was evident down the hole with the possible exception of the zone from 160 to 190.

Hole BAS 78 #3A was abandoned at a depth of 45 feet after an attempt to drive extra casing resulted in bit damage. No water seal was made around the casing. The entire hole was in stockwork or vuggy vein material which was weathered and leached. The hole was drilled at -60° dip at bearing 090° .

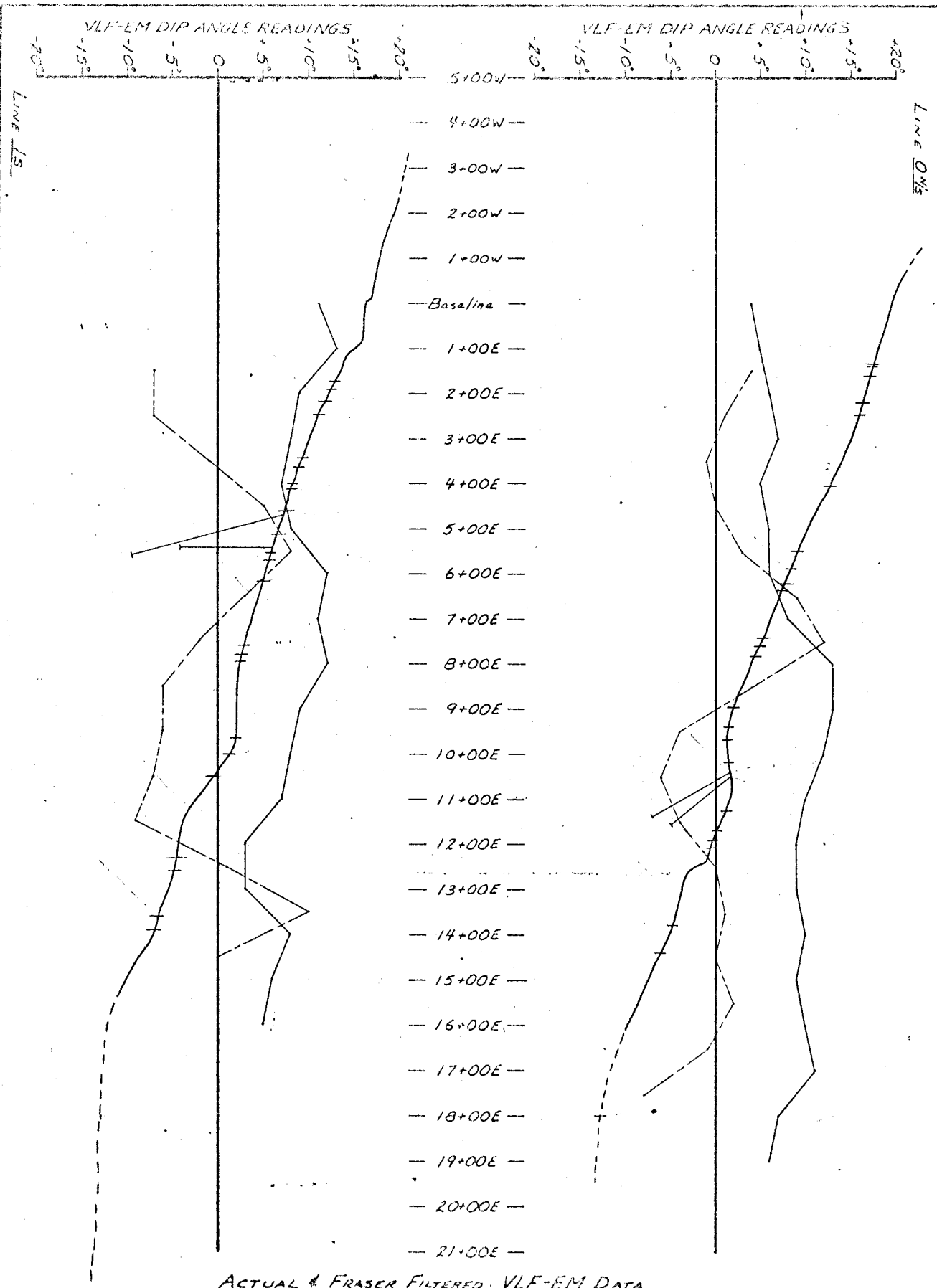
Hole BAS 78 #4 was drilled to a depth of 290 feet at an angle of -50° bearing 120° . Sampling started at 15 feet. Weathered stockwork and vuggy vein material was encountered to a depth of 40 feet, fresh unaltered feldspar porphyry and mafic dyke material from 40 to 170 and intermittent stockwork from 170 to 290. Numerous intervals from 200 to 290 showed signs of heavy sulphides (black water returns). These sulphide zones may relate to the stockwork zone in the face of the Bluff and may suggest a source for the 'float' vein material encountered on the Switchback (Line 1N - 12E). The casing was grouted in an attempt to reduce water loss between the rock and outer wall of the casing. Water loss was evident in stockwork zones. The sulphides encountered in these drill holes ran only minor gold and silver values (maximum of .005 oz/T Au and .25%/Ton Ag.). Composite samples from two of these sulphide zones ran .02% tungsten. Although the gold and silver values from the indicated sulphide zones

3. were low, it would appear that there is some correlation with surface showings (see Sections 0 N/S and 1S). Previously obtained samples from the surface showings gave higher values than those obtained from the drill samples. Techniques used for sampling surface test pits were somewhat biased towards material with visible sulphides.

In general, the stockwork material on surface was highly weathered and leached leaving numerous voids in the rock so sampled material was selected to minimize the effect of leaching to suggest possible values beneath the weathered cap.

Although the possibility exists that these low values are a true representation of the zone, there are several other possible reasons for the lower results from beneath the surface.

- (a) The likelihood of dilution is high considering the vuggy nature of the ground being drilled.
- (b) There could somehow be a concentration of silver values at surface due to the weathering/leaching processes but this is not likely, considering the solubility of silver minerals. Instead, one would expect to find a secondary enrichment at depth.
- (c) Pyrite is a brittle sulphide and has a tendency to break into fine fragments when crushed. These fines would tend to float off. The gold and silver values being closely tied to, or in solid solution with, the pyrite may also be floated off.



ACTUAL & FRASER FILTERED VLF-EM DATA

— ACTUAL READINGS
 - - - FILTERED DATA

LINES 0 1/2 & 15

GEOTRONICS SURVEYS LTD.
 BAS CLAIM GROUP
 KOTTE R - STONE CR. AREA
 VULCAN MINING DIVISION, B.C.

3. (d) Both gold and silver bearing minerals having a high specific gravity may have a tendency to settle out in the voids, in the vuggy veins and stockwork, instead of being washed from the holes. Larger fragments of pyrite may also tend to settle out. Water losses in the vuggy veins and stockwork would tend to carry the drill cuttings, particularly the heavy ones, into the voids where they would be trapped.

The return drill water from several zones mentioned above was very black, indicating sulphides. However, examination of the cuttings indicated only minor sulphides. When the drill samples were pulverized for assay the rock flour was white to very slightly discolored which again indicates only minor sulphides. Considering the above reasons, it would seem that a combination of the brittle sulphides and the vuggy ground were the largest contributing factors to the lower values, not the lack of sulphide containing values in the rock formation.

In an attempt to determine whether sampling techniques were adequate, several samples were taken from the drill cuttings remaining on surface. These check samples indicated grades similar to the higher drill interval samples, apparently not diluted by the numerous samples that only ran traces of gold and silver. This suggests that some losses may have occurred around the drill casing, particularly in BAS78 #1 and #2. The lower value around the collar of the casing on Hole BAS78 #4 may be due to the flat angle and the fact that the material sampled was several feet above the actual bedrock/overburden contact. See Figure 3.

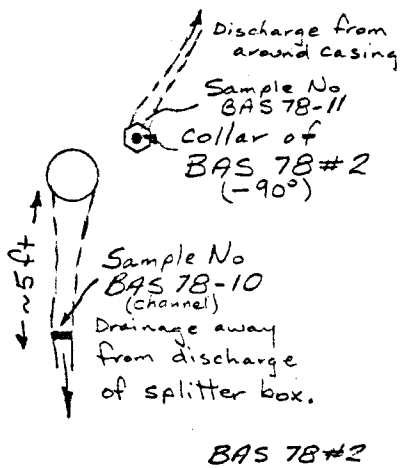
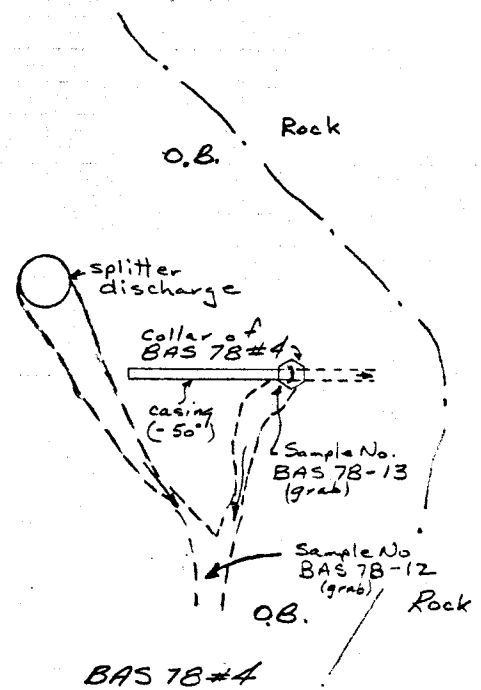
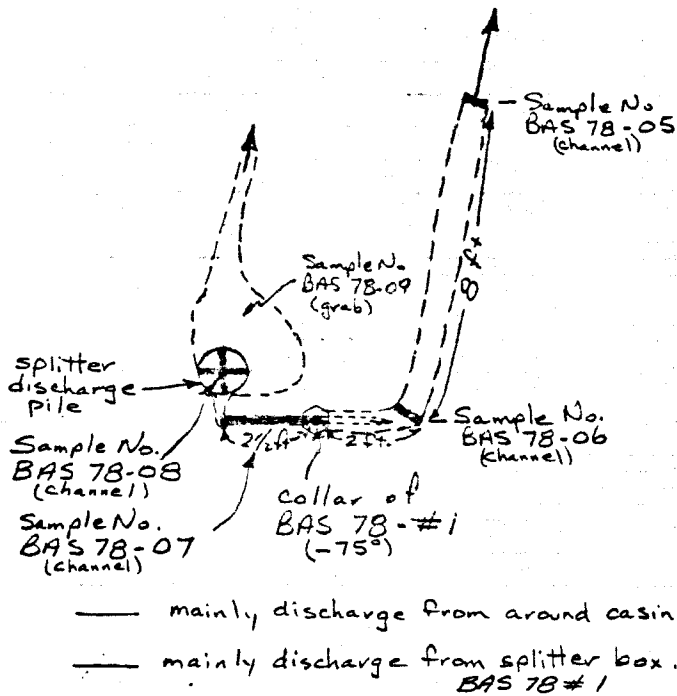


Figure 3
 LOCATION OF DRILL CUTTING
 CHECK SAMPLES
 BAS CLAIM GROUP
 KETTLE RIVER, B.C.

SUMMARY AND CONCLUSIONS:

The 1978 Spring/Summer Program was successful in indicating additional targets for follow-up work. Although not conclusive, the percussion drilling is believed to have intersected zones of heavy sulphides.

Further stripping and trenching with follow-up diamond drilling will be required to evaluate these zones of interest.

APPENDIX A

1. Assay Results

7259



Kamloops Research & Assay Laboratory Ltd.

2095 WEST TRANS CANADA HIGHWAY-KAMLOOPS, B.C. V1S 1A7
TELEPHONE 372-2784 · TELEX 048-8320

B.C. LICENSED ASS. RS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Mr. R. W. Yorke-Hardy,
Y-H Technical Services,
Box 2182, Revelstoke, B. C.

Certificate No. K-1654

Date June 5, 1978.

chip

I hereby certify that the following are the results of assays made by us upon the herein described percussion samples

Kral No.	Marked	GOLD	SILVER							
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1	BAS 78 - 01	Tr	Tr							
2	BAS 78 - 02	Tr	Tr							
3	BAS 78 - 03	.45	16.14							
4	BAS 78 - 04	Tr	.33							
5	BS 78-1 7 - 10	Tr	Tr							
6	" 10 - 20	Tr	Tr							
7	" 20 - 30	Tr	.01							
8	" 30 - 40	Tr	.05							
9	" 40 - 50	Tr	Tr							
10	" 50 - 60	Tr	Tr							
11	" 60 - 70	Tr	.02							
12	" 70 - 80	Tr	.03							
13	" 80 - 90	Tr	Tr							
14	" 90 - 100	.005	Tr							
15	" 95 - 100	.005	.10							
16	" 100 - 110	.005	.08							
17	" 110 - 120	Tr	.10							
18	" 120 - 130	Tr	.07							
19	" 130 - 140	Tr	.11							
20	BS 78-1 140 - 150	Tr	.08							* This was the largest sample.

NOTE:

Refracts retained three weeks
Pulps retained three months
unless otherwise arranged.

Tr denotes "trace"

R. W. Yorke-Hardy
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

2095 WEST TRANS CANADA HIGHWAY-KAMLOOPS, B.C. V1S 1A7
TELEPHONE 372-2784 - TELEX 048-8320

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Mr. R. W. Yorke-Hardy

Certificate No. K-1654

Date June 5, 1978.

I hereby certify that the following are the results of assays made by us upon the herein described percussion samples

Kral No.	Marked	GOLD	SILVER							
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
21	BS 78-1 150 - 160	Tr	.08							
22	" 160 - 170	Tr	Tr							
23	" 170 - 180	Tr	.08							
24	" 180 - 190	.005	Tr							
25	" 185 - 190	Tr	.25							
26	" 190 - 200	Tr	.04							
27	" 200 - 210	Tr	.04							
28	" 210 - 220	Tr	.04							
29	" 220 - 230	Tr	.05							
30	" 230 - 240	Tr	.02							
31	" 240 - 250	Tr	.06							
32	" 250 - 260	Tr	Tr							
33	" 260 - 270	Tr	.08							
34	" 270 - 280	Tr	.03							
35	" 280 - 290	Tr	.07							
36	" 290 - 300	Tr	.08							
37	" 300 - 310	Tr	.05							
38	" 310 - 320	Tr	.04							
39	" 320 - 330	Tr	.13							
40	BS 78-1 330 - 340	Tr	.03							

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

R. W. Yorke-Hardy
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

2095 WEST TRANS CANADA HIGHWAY-KAMLOOPS, B.C. V1S 1A7
TELEPHONE 372-2784 · TELEX 048-8320

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Mr. R. W. Yorke-Hardy

Certificate No. K-1654

Date June 5, 1978.

I hereby certify that the following are the results of assays made by us upon the herein described percussion samples

Kral No.	Marked	GOLD		SILVER		Percent	Percent	Percent	Percent	Percent	Percent
		Ounces Per Ton	Ounces Per Ton	Percent	Percent						
41	BS 78-2 5 - 10	Tr	.04								
42	" 10 - 20	Tr	.09								
43	" 20 - 30	Tr	.03								
44	" 30 - 40	Tr	.08								
45	" 40 - 50	Tr	Tr								
46	" 50 - 60	Tr	.02								
47	" 60 - 70	Tr	.10								
48	" 70 - 80	Tr	.12								
49	" 80 - 90	Tr	.12								
50	" 90 - 100	Tr	.08								
51	" 100 - 110	Tr	.05								
52	" 110 - 120	Tr	.14								
53	" 120 - 130	Tr	.08								
54	" 130 - 140	Tr	.08								
55	" 140 - 150	Tr	.10								
56	" 150 - 160	Tr	.10								
57	" 160 - 170	Tr	.03								
58	" 170 - 180	Tr	.07								
59	" 180 - 190	Tr	.08								
60	BS 78-2 190 - 200	Tr	Tr								

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

R. W. Yorke-Hardy
.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

2095 WEST TRANS CANADA HIGHWAY—KAMLOOPS, B.C. V1S 1A7
TELEPHONE 372-2784 TELEX 048-8320

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Mr. R. W. Yorke-Hardy

Certificate No. K-1654

Date June 5, 1978.

I hereby certify that the following are the results of assays made by us upon the herein described percussion samples

Kral No.	Marked	GOLD		SILVER		Percent	Percent	Percent	Percent	Percent	Percent
		Ounces Per Ton	Ounces Per Ton	Ounces Per Ton	Ounces Per Ton						
61	BS 78-3 5 - 10	Tr	Tr								
62	" 10 - 20	Tr	.01								
63	" 20 - 30	Tr	.09								
64	" 30 - 40	Tr	Tr								
65	" 40 - 80	Tr	.02								
66	" 80 - 120	Tr	Tr								
67	" 120 - 160	Tr	Tr								
68	" 160 - 170	Tr	Tr								
69	" 170 - 180	.004	.01								
70	" 175 - 180	Tr	.08								
71	" 180 - 190	Tr	.09								
72	" 190 - 300	Tr	Tr								
73	BS 78-3A 5 - 10	Tr	Tr								
74	" 10 - 20	Tr	Tr								
75	" 20 - 30	Tr	Tr								
76	" 30 - 40	Tr	.08								
77	" 40 - 50	.003	.03								
78	BS 78-4 15 - 20	Tr	.19								
79	" 20 - 30	Tr	.12								
80	BS 78-4 30 - 40	Tr	.10								

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

W. Blundell
.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

2095 WEST TRANS CANADA HIGHWAY-KAMLOOPS, B.C. V1S 1A7
TELEPHONE 372-2784 - TELEX 048-8320

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Mr. R. W. Yorke-Hardy

Certificate No. K-1654

Date June 5, 1978.

I hereby certify that the following are the results of assays made by us upon the herein described percussion samples

Kral No.	Marked	GOLD		SILVER		Percent	Percent	Percent	Percent	Percent	Percent
		Ounces Per Ton	Ounces Per Ton	Percent	Percent						
81	BS 78-4	40 - 50	Tr	Tr							
82	"	50 - 60	Tr	Tr							
83	"	60 - 70	Tr	Tr							
84	"	70 - 80	Tr	Tr							
85	"	80 - 90	.005	Tr							
86	"	90 - 100	Tr	Tr							
87	"	100 - 110	.005	Tr							
88	"	110 - 120	Tr	Tr							
89	"	120 - 130	Tr	Tr							
90	"	130 - 140	Tr	Tr							
91	"	140 - 150	Tr	Tr							
92	"	150 - 160	Tr	Tr							
93	"	160 - 170	Tr	Tr							
94	"	170 - 180	.003	Tr							
95	"	180 - 190	.005	Tr							
96	"	190 - 200	Tr	Tr							
97	"	200 - 210	Tr	Tr							
98	"	210 - 220	Tr	Tr							
99	"	215 - 220	Tr	Tr							
100	BS 78-4	220 - 230	Tr	.04							

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

R. W. Yorke-Hardy
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

2095 WEST TRANS CANADA HIGHWAY-KAMLOOPS, B.C. V1S 1A7
TELEPHONE 372-2784 · TELEX 048-8320

CERTIFICATE OF ASSAY

TO Mr. R. W. Yorke-Hardy

Certificate No. K-1654

Date June 5, 1978.

I hereby certify that the following are the results of assays made by us upon the herein described percussion samples

Kral No.	Marked	GOLD	SILVER							
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
101	BS 78-4 228 - 235	Tr	.04							
102	" 230 - 240	Tr	Tr							
103	" 237-245	.005	.05							
104	" 245 - 250	Tr	Tr							
105	" 250 - 260	Tr	Tr							
106	" 260 - 270	Tr	Tr							
107	" 270 - 275	.005	.14							
108	" 275 - 280	Tr	Tr							
109	BS 78-4 280 - 290	Tr	Tr							

NOTE:
Rejects retained three weeks
Fulps retained three months
unless otherwise arranged.

R. S. ...
.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

2095 WEST TRANS CANADA HIGHWAY-KAMLOOPS, B.C. V1S 1A7
TELEPHONE 372-2784 . TELEX 048-8320

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Mr. R. W. Yorke-Hardy,
Y-H Technical Services,
Box 2182, Revelstoke, B. C.

Certificate No. K-1664
Date June 27, 1978.

I hereby certify that the following are the results of assays made by us upon the herein described composites samples

Kral No.	Marked	GOLD	SILVER	W						
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1	K-1629; Flot Test Feed			.02						
2	BS 78-1 90 - 110			L .01						
3	110 - 160			L .01						
4	180 - 190			L .01						
5	BS 78-2 60 - 110			L .01						
6	110 - 160			L .01						
7	160 - 190			L .01						
8	BS 78-3 5 - 30			.02						
9	170 - 190			L .01						
10	BS 78-3A 5 - 50			L .01						
11	BS 78-4 15 - 40			L .01						
12	80 - 110			L .01						
13	170 - 190			.02						
14	237 - 245			L .01						
15	270 - 275			L .01						

L denotes "less than"

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

2095 WEST TRANS CANADA HIGHWAY-KAMLOOPS, B.C. V1S 1A7
TELEPHONE 372-2784 - TELEX 048-8320

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Y-H Technical Services,

Box 2182,

Revelstoke, B. C.

Certificate No. K-1715

Date July 29, 1978.

I hereby certify that the following are the results of assays made by us upon the herein described pulp samples

Kral No.	Marked	GOLD	SILVER	S						
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1	BS-78-1-180-190			.57						
2	BS-78-1-185-190			3.06						
3	BS-78-14			10.41						
4	Flot. Conc.			27.14						

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

.....
DAB for RAB
.....
Registered Assayer, Province of British Columbia



can test ltd.

To: Kamloops Assay & Research Laboratory

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6 • TELEPHONE 254-7278

Telex 04-507737

2095 W. Trans Canada Hwy

SEMI QUANTITATIVE SPECTROGRAPHIC

ANALYSES CERTIFICATE

Kamloops, B.C.

File No. 6027 C

Date June 30, 1978

Attention: Mr. D. Blundell

We hereby Certify that the following are the results of semi quantitative spectrographic analyses made on samples submitted.

		1	2	3	4	5	Sample Identification
Aluminum	Al	8.	8.	6.	8.	10.	Sample 1: 1654 - 1
Antimony	Sb	ND	ND	ND	ND	ND	
Arsenic	As	TRACE	TRACE	TRACE	TRACE	TRACE	Sample 2: 1654 - 2
Barium	Ba	0.2	0.1	0.07	0.04	0.1	1654 - 3
Beryllium	Be	ND	ND	ND	ND	ND	Sample 3:
Bismuth	Bi	ND	ND	ND	ND	ND	Sample 4: 1654 - 4
Boron	B	TRACE	TRACE	TRACE	TRACE	TRACE	
Cadmium	Cd	ND	ND	ND	ND	ND	Sample 5: 1654 - 5
Calcium	Ca	4.	2.	3.	3.	4.	
Chromium	Cr	0.004	0.002	0.02	TRACE	TRACE	
Cobalt	Co	ND	ND	ND	ND	ND	<p>Percentages of the various elements expressed in these analyses may be considered accurate to within plus or minus 35 to 50% of the amount present.</p> <p>Semi-quantitative spectrographic analytical results for gold and silver are normally not of a sufficient degree of precision to enable calculation of the true value of ores. Therefore, should exact values be required, it is recommended that these elements be assayed by the conventional Fire Assay Method. Quantitative and Fire Assays may be carried out on the retained pulp samples.</p> <p>Silicon, aluminum, magnesium, calcium and iron are normal components of complex silicates.</p> <p>MATRIX -- Major constituent MAJOR -- Above normal spectrographic range TRACE -- Detected but minor amounts N.D. -- Not detected • -- Suggest assay (above 0.3%)</p>
Copper	Cu	0.002	0.002	0.001	0.001	0.002	
Germanium	Ga	ND	ND	ND	ND	ND	
Gold	Au	TRACE	TRACE	TRACE	TRACE	TRACE	
Iron	Fe	2.	1.5	1.5	1.5	2.	
Lead	Pb	0.001	0.001	0.001	TRACE	0.001	
Magnesium	Mg	2.	2.	2.	2.	5.	
Manganese	Mn	0.1	0.07	0.09	0.08	0.1	
Molybdenum	Mo	TRACE	TRACE	TRACE	TRACE	TRACE	
Niobium	Nb	ND	ND	ND	ND	ND	
Nickel	Ni	0.003	0.002	0.003	0.001	0.001	
Potassium	K	1.	1.	1.	1.	1.	
Silicon	Si	MATRIX	MATRIX	MATRIX	MATRIX	MATRIX	
Silver	Ag	TRACE	TRACE	0.001	TRACE	TRACE	
Sodium	Na	2.5	2.	1.	3.	2.	
Strontium	Sr	0.07	0.04	0.03	0.04	0.05	
Tantalum	Ta	ND	ND	ND	ND	ND	
Thorium	Th	ND	ND	ND	ND	ND	
Tin	Sn	ND	ND	ND	ND	ND	
Titanium	Ti	0.5	0.4	0.3	0.3	0.5	
Tungsten	W	ND	ND	ND	ND	ND	
Uranium	U	ND	ND	ND	ND	ND	
Vanadium	V	0.002	0.001	0.001	0.001	0.002	
Zinc	Zn	ND	ND	ND	ND	ND	

All results expressed as PERCENT

Note: Pulps retained one week.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERE TO IS LIMITED TO THE FEE CHARGED.

CAN TEST LTD.

S. Burgess

Spectrographist



Kamloops Research & Assay Laboratory Ltd.

2095 WEST TRANS CANADA HIGHWAY—KAMLOOPS, B.C. V1S 1A7
TELEPHONE 372-2784 • TELEX 048-8320

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Mr. R. W. Yorke-Hardy,
Y-H Technical Services,
Box 2182, Revelstoke, B.C.

Certificate No. K-1678
Date July 1, 1978.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge & rock samples

Kral No.	Marked	GOLD	SILVER	Cu	Σ					
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1	BAS 78 - 05	.005	.10	-						
2	78 - 06	Tr	.15	-						
3	78 - 07	Tr	.14	-						
4	78 - 08	.001	.08	-						
5	78 - 09	.002	.28	-						
6	78 - 10	Tr	.06	-						
7	78 - 11	Tr	.12	-						
8	78 - 12	Tr	.10	-						
9	78 - 13	Tr	.05	-						
10	78 - 14	.23	4.38	.16						
11	BAS 78 - 15	.24	2.36	.16						

Tr denotes "trace"

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

WAB for RAB
.....
Registered Assayer, Province of British Columbia

APPENDIX A

2. Statement of Expenses

STATEMENT OF EXPENDITURES

Transportation - 4 x 4 - 28 days @\$40.00/day \$ 1,120.00

Assaying \$ 1,611.30 *Leaf*

Printing and Office Expenses \$ 125.00

Total Labour \$ 4,600.00 *Leaf*

Total Contractor Expenses \$ 6,100.00

TOTAL \$13,556.30 *Leaf*

EMPLOYMENT EXPENSES

<u>Name & Address</u>	<u>Dates Employed</u>	<u>Job Done</u>	<u>Rate of Pay</u>	<u>T O T A L</u>
R. W. Yorke-Hardy Box 2182 Revelstoke, B. C.	May 6 & 7 /78 May 13 & 14 /78 May 19 to 25 /78 = 11 days /78 <i>New</i> Apr. 23 & 24 /79	Project Management REPORT PREP.	\$ 150.00 "	\$ 1,650.00 <i>300.00</i>
S. E. Arnold Box 1097 Hope, B. C.	April 29 & 30 May 6 & 7 May 13 to 25 = 17 days	Labour Labour Supervision	\$ 100.00	1,700.00
W. D. Yorke-Hardy Box 2182 Revelstoke, B. C.	May 13 & 14 May 19 to 25 = 9 days	Supervision	\$ 100.00	900.00
Alan Arnold Vernon, B. C.	May 20 & 21 2 x 1/2 days	Labour	\$ 50.00	50.00
Ohashi Bros. Logging Box 250 Lumby, B. C.	May 15 to	Total cat work including mob & de-mob		1,762.50
Merritt-Funk Bros. Drilling Box 2077 Merritt, B. C.	May 19 to 24	Percussion drilling of 1082 ft. plus mob and de-mob		<u>4,338.00</u>
				<u>\$ 10,700.50</u> <i>1000</i>

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - ~~BOX 346~~ - KAMLOOPS, B.C. ~~X2C 504~~
2095 Phone: 372-2784 Telex: 048-8320 VLS 1A7

Mr. R. W. Yorke-Hardy,
Y-H Technical Services,
Box 2182,
Revelstoke, B. C.

INVOICE: 1592
DATE: June 5, 1978.
FILE No. K-1654

109 Gold & Silver Assays @ \$8.50	\$ 926.50
Wet Sample Charge -- 525# @ \$0.20	105.00
Compositing -- 12 @ \$0.50	<u>6.00</u>
	\$1,037.50

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

2095 WEST TRANS CANADA HIGHWAY - KAMLOOPS, B.C. V1S 1A7

Phone: 372-2784

Telex: 048-8320

Y-H Technical Services,
Box 2182,
Revelstoke, B. C.

INVOICE: 1765

DATE: October 27, 1978.

FILE No.

Splitting Percussion Drill Rejects \$100.00

Greyhound Express Oct. 18, 1978 prepaid 3.75

\$103.75

23.25

127.00

*Accounting
10/27/78
Confirmed with
Y-H 10/27/78*

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - ~~BOX 2182~~ - KAMLOOPS, B.C. V2E 2N3
2095 Phone: 372-2784 Telex: 048-8320 VLS 1A7

Mr. R. W. Yorke-Hardy,
Y-H Technical Services,
Box 2182,
Revelstoke, B.C.

INVOICE: 1613

DATE: June 27, 1978.

FILE No. K-1664
G-224

15 Tungsten Assays @ \$9.00	\$135.00
Compositing charge for 34 element spectrographic analyses and Tungsten determinations	39.50
1 Geochemical Analysis -- ppm Lead & Silver, Soil @ \$1.80	1.80
	<hr/>
	\$191.30

Kamloops Research
&
Assay Laboratory

LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2G 5N4
2095 Phone: 372-2784 Telex: 048-8320 VLS 177

Y-H Technical Services,
Box 2182,
Revelstoke, B. C.

INVOICE: 1661

DATE: July 29, 1978.

FILE No. K-1715

4 Sulphur Assays @ \$7.00

\$28.00

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - ~~2095~~ - KAMLOOPS, B.C. ~~X20X5N4~~
2095 Phone: 372-2784 Telex: 048-8320 VLS 1A7

Mr. R. W. Yorke-Hardy,
Y-H Technical Services,
Box 2182,
Revelstoke, B. C.

INVOICE: 1628
DATE: July 4, 1978.
FILE No. K-1654

5 Spectrographic Analyses @ \$25.00

\$125.00

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - ~~2095~~ - KAMLOOPS, B.C. ~~V2G 6N4~~
2095 Phone: 372-2784 Telex: 048-8320 V1S 1A7

Mr. R. W. Yorke-Hardy,
Y-H Technical Services,
Box 2182,
Revelstoke, B. C.

INVOICE: 1619
DATE: July 1, 1978.
FILE No. K-1678

11 Gold & Silver Assays @ \$8.50	\$ 93.50
2 Copper Assays @ \$4.50	9.00
	<hr/>
	\$102.50
	<hr/> <hr/>

Shaski Bros. Logging Ltd.

CONTRACT LOGGING
P.O. BOX 250
LUMBY B.C. V0E 2G0

NAME *Steve Gernold* DATE *May 1978*
Box 1097, Hape, B.C.

<i>9- D8 - Shop to 1/2 mile</i>				
<i>Stone Creek 5 hrs @ 36.00</i>			<i>180.00</i>	
<i>May 10-13 -</i>				
<i>D8 - 25 1/2 hrs @ 55.00</i>			<i>1407.50</i>	
<i>May 15 - D8 - Stone Crk. to</i>				
<i>Lumby - 4 hrs @ 36.00</i>			<i>144.00</i>	
<i>Pilot fee -</i>			<i>36.00</i>	

REC'D BY _____ CLERK _____
CASH _____ C.O.D. _____ CHARGE _____ ON ACCT. _____ MDSE. RET'D _____ PAID OUT _____
TAX TOTAL *1862.50*

3762

Phone 378-4152 or 378-2333

MERRITT-FUNK BROTHERS DRILLING
COMPANY LIMITED
Aberdeen Road, Lower Nicola
P.O. Box 2077
Merritt, B.C.
VOK 2B0

June 6, 1978

Y.H. TECHNICAL SERVICES
P.O. Box 2182
Revelstroke, B.C.

Attention: Mr. Bob Yorkhardy

Dear Sirs:

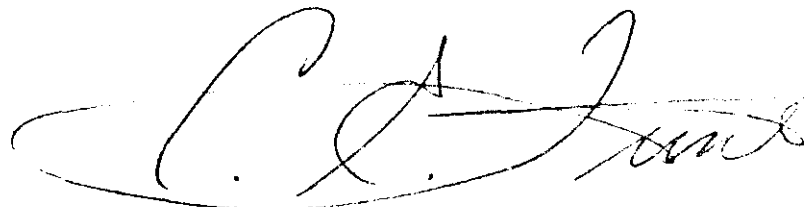
Following is a statement of our account for percussion drilling
on your Spruce Grove Property, During the period May 19 - 24, 1978.

<u>Hole No.</u>	<u>Bedrock Depth</u>	<u>Feet Cased</u>	<u>Total Footage Drilled</u>
BS - 1	7 ft.	15 ft.	340 ft.
BS - 2	5 ft.	20 ft.	200 ft.
BS - 3	0 ft.	10 ft.	200 ft.
BS - 4	5 ft.	12 ft.	<u>290 ft.</u>
Total Footage Drilled			1030 ft.

Drilling Charges 1030 ft. @ \$3.50 per ft. \$3605.00
 Mobilization Charges HK Trucking \$ 306.00
 Demobilization Charges R.E. Postill & Sons \$ 427.00
 Total Charges \$4338.00
 Less Advance \$ 600.00
 Total Amount Due \$3738.00

Thank you and trusting we may serve you again soon.

Yours truly,



Cary E. Funk

Merritt-Funk Brothers Drilling
Company Limited

R. E. POSTILL

& SONS LIMITED

BULLDOZING
 CLEARING LAND
 EXCAVATING
 DITCHING AND SHOVEL WORK
 HEAVY HAULING
 ROAD BUILDING
 PIPE LAYING

KALAMALKA ROAD • R. R. 1 • VERNON, B. C. V1T 6L4

OFFICE TELEPHONES: 545-5008
 545-8758

TO Mr. Steve Arnold,
 Box 1097
 Hope, aB. C.

FOLIO 4355

DATE May 31, 1978

mailed to Funk Bros. drilling Co. Ltd.
 P. O. Box 2077, Merritt. B. C.

may 24/25th. lowbed haul drill on truck from Kettle river to		
5 mile north of Merritt	11½ hr. @ \$ 35.00	\$ 402.50
overtime operator	5 hr. @ \$ 4.30	\$ 21.50
	permit	3.00
		<hr/>
		\$ 427.00

ACCOUNTS ARE DUE WHEN RENDERED - 1½% PER MONTH CHARGED ON OVERDUE ACCOUNTS

MERRITT-FUNK BROTHERS DRILLING COMPANY LIMITED

P.O. Box 2077, Merritt, B.C. - V0K 2B0 - Phone 378-4152

SHIFT _____

PERCUSSION DRILL SHIFT REPORT

DAY _____
NIGHT _____

JOE *Mooney*

DATE *May 12/70*

FOOTAGE REPORT

HOLE NO.		FROM	TO	FOOTAGE	DEPTH TO BEDROCK	TOTAL DEPTH OF HOLE
	CASING					
	REAMING CASING IN BEDROCK					
	DRILLING 2" HOLE	ft.	ft.	ft.		ft.
	DRILLING BELOW 300 FT.	300 FT.				
	CASING					
	REAMING CASING IN BEDROCK					
	DRILLING 2" HOLE					
	DRILLING BELOW 300 FT.					

TIME REPORT

NAME	TOTAL HOURS	MOVING HOURS	DRIVING CASING	PULLING CASING	DRILLING 2" HOLE	CORING	GROUTING	DELAYS
DRIVER <i>Gene Funk</i>	5							
HELPER <i>Gene Mooney</i>	5							
OTHER								

FIELD COST WORK REPORT

	HOLE NO.	MAN HOURS	EQUIP. HRS.	MATERIALS USED OR LOST								
				BATCHES AMB	CASING (FT)	CASING COUPLINGS	CASING SHOES	DRILL RODS	ROD COUPLINGS	DRILL BITS	OTHER	
MOVING												
GROUTING												
CASING												
WATER SUPPLY												
CORE SAMPLING												
OTHER												

REMARKS *Moving from Merritt to Y.H. Spruce Grove.*

Clayton H.S.
ENGINEER

DRILL FOREMAN

MERRITT-FUNK BROTHERS DRILLING COMPANY LIMITED

P.O. Box 2077, Merritt, B.C. - V0K 2B0 - Phone 378-4152

SHIFT _____

PERCUSSION DRILL SHIFT REPORT

DAY _____

JOB YH Tech

DATE May 20/78

NIGHT _____

FOOTAGE REPORT

HOLE NO.		FROM	TO	FOOTAGE	DEPTH TO BEDROCK	TOTAL DEPTH OF HOLE
B5-1#	CASING	0	15	15	7	ft.
	REAMING CASING IN BEDROCK					
	DRILLING 2" HOLE	0 ft.	200 ft.	200 ft.		
	DRILLING BELOW 300 FT.	300 FT.				
	CASING					
	REAMING CASING IN BEDROCK					
	DRILLING 2" HOLE					
	DRILLING BELOW 300 FT.					

TIME REPORT

	NAME	TOTAL HOURS	MOVING HOURS	DRIVING CASING	PULLING CASING	DRILLING 2" HOLE	CORING	GROUTING	DELAYS
DR	<i>James Cook</i>	10							
ER	<i>John Denny</i>	10	1	1/2		4			
HELPER	<i>ED. Spence</i>	9 1/2							
OTHER									

FIELD COST WORK REPORT

	HOLE NO.	MAN HOURS	EQUIP. HRS.	MATERIALS USED OR LOST								
				BATCHES AM9	CASING (FT)	CASING COUPLINGS	CASING SHOES	DRILL RODS	ROD COUPLINGS	DRILL BITS	OTHER	
MOVING												
GROUTING												
CASING												
WATER SUPPLY												
CORE SAMPLING												
OTHER												

REMARKS _____

[Signature]
 ENGINEER

DRILL FOREMAN

MERRITT-FUNK BROTHERS DRILLING COMPANY LIMITED

P.O. Box 2077, Merritt, B.C. - V0K 2B0 - Phone 378-4152

SHIFT _____

PERCUSSION DRILL SHIFT REPORT

DAY

JOB Y.H. Tech.

DATE Dec 21/79

NIGHT _____

FOOTAGE REPORT

HOLE NO.	FROM	TO	FOOTAGE	DEPTH TO BEDROCK	TOTAL DEPTH OF HOLE
<i>B.S.F.1</i>	CASING				340 ft.
	REAMING CASING IN BEDROCK				
	DRILLING 2" HOLE	200 ft.	345 ft.	140 ft.	
	DRILLING BELOW 300 FT.	300 FT.			
	CASING				
	REAMING CASING IN BEDROCK				
	DRILLING 2" HOLE				
	DRILLING BELOW 300 FT.				

TIME REPORT

NAME	TOTAL HOURS	MOVING HOURS	DRIVING CASING	PULLING CASING	DRILLING 2" HOLE	CORING	GROUTING	DELAYS
DRILLER <i>E. SPENCE</i>	10				4			
HELPER <i>J. DOWNEY</i>	11							
OTHER								

FIELD COST WORK REPORT

MOVING	GROUTING	CASING	WATER SUPPLY	CORE SAMPLING	OTHER	MATERIALS USED OR LOST												
						BATCHES AM9	CASING (FT)	CASING COUPLINGS	CASING SHOES	DRILL RODS	ROD COUPLINGS	DRILL BITS	OTHER					

REMARKS Piston in Hammer Broke
Returned to Merritt for parts

[Signature]
ENGINEER

DRILL FOREMAN

MERRITT-FUNK BROTHERS DRILLING COMPANY LIMITED

P.O. Box 2077, Merritt, B.C. - V0K 2B0 - Phone 378-4152

SHIFT _____

PERCUSSION DRILL SHIFT REPORT

DAY _____

JOB V.H. Tech

DATE Mar 22/79

NIGHT _____

FOOTAGE REPORT

HOLE NO.	FROM	TO	FOOTAGE	DEPTH TO BEDROCK	TOTAL DEPTH OF HOLE	
<u>B.S. #2</u>	CASING			<u>5 FT.</u>	<u>200 ft.</u>	
	REAMING CASING IN BEDROCK	<u>0</u>	<u>20</u>			
	DRILLING 2" HOLE	<u>0 ft.</u>	<u>200 ft.</u>			<u>200 ft.</u>
	DRILLING BELOW 300 FT.	<u>300 FT.</u>				
CASING						
REAMING CASING IN BEDROCK						
DRILLING 2" HOLE						
DRILLING BELOW 300 FT.						

TIME REPORT

NAME	TOTAL HOURS	MOVING HOURS	DRIVING CASING	PULLING CASING	DRILLING 2" HOLE	CORING	GROUTING	DELAYS
DR. <u>ER E. SPENCIE</u>	<u>13</u>		<u>1 1/2</u>	<u>1/2</u>	<u>4</u>			
HELPER <u>H. DOWNEY</u>	<u>13</u>							
OTHER								

FIELD COST WORK REPORT

MOVING	GROUTING	CASING	WATER SUPPLY	CORE SAMPLING	OTHER	MATERIALS USED OR LOST												
						BATCHES AM9	CASING (FT)	CASING COUPLINGS	CASING SHOES	DRILL RODS	ROD COUPLINGS	DRILL BITS	OTHER					

REMARKS RETURNED FROM MERRITT WITH PARTS FOR HAMMER REPAIRED & PULLED RODS & CASING 7 HRS.

[Signature]
ENGINEER

DRILL FOREMAN

MERRITT-FUNK BROTHERS DRILLING COMPANY LIMITED

P.O. Box 2077, Merritt, B.C. - V0K 2B0 - Phone 378-4152

SHIFT _____

PERCUSSION DRILL SHIFT REPORT

DAY

JOB Y. A. Tuck

DATE 21/12/78

NIGHT _____

FOOTAGE REPORT

HOLE NO.		FROM	TO	FOOTAGE	DEPTH TO BEDROCK	TOTAL DEPTH OF HOLE
BS. 3	CASING	0	10		0	200 ft.
	REAMING CASING IN BEDROCK					
	DRILLING 2" HOLE	0 ft.	200 ft.	200 ft.		
	DRILLING BELOW 300 FT.	300 FT.				
	CASING					214
	REAMING CASING IN BEDROCK					
	DRILLING 2" HOLE					
	DRILLING BELOW 300 FT.					

TIME REPORT

NAME	TOTAL HOURS	MOVING HOURS	DRIVING CASING	PULLING CASING	DRILLING 2" HOLE	CORING	GROUTING	DELAYS
DR <u>ER E. SPENCE</u>	12	1	1/2	1/2	5		1/2	
HELPER <u>J DOWNNEY</u>	12							
OTHER								

FIELD COST WORK REPORT

MOVING	GROUTING	CASING	WATER SUPPLY	CORE SAMPLING	OTHER	HOLE NO.	MAN HOURS	EQUIP. HRS.	MATERIALS USED OR LOST								
						BATCHES AM9	CASING (FT)	CASING COUPLINGS	CASING SHOES	DRILL RODS	ROD COUPLINGS	DRILL BITS	OTHER				

REMARKS 3 1/2 Hrs SET BOOM FOR 60° ANGLE
PUT DOWN 10' CASING DRILLED DOWN TO 45 FT
WATER COMING BACK AROUND CASING, PUT
DOWN 5" CASING WENT DOWN WITH RODS
UNABLE TO DRILL, TOOTH OF CASING DOWN
THE HOLE MOVED OVER 12" AND RE-DRILLED
Hole No. 3
[Signature]
 ENGINEER DRILL FOREMAN

MERRITT-FUNK BROTHERS DRILLING COMPANY LIMITED

P.O. Box 2077, Merritt, B.C. - V0K 2B0 - Phone 378-4152

SHIFT _____

PERCUSSION DRILL SHIFT REPORT

DAY _____

JOB

Y H Tech

DATE

11-24-58

NIGHT _____

FOOTAGE REPORT

HOLE NO.		FROM	TO	FOOTAGE	DEPTH TO BEDROCK	TOTAL DEPTH OF HOLE
<i>No. 4 B.S.</i>	CASING	<i>0</i>	<i>12</i>		<i>5 FT.</i>	<i>290 ft.</i>
	REAMING CASING IN BEDROCK					
	DRILLING 2" HOLE	<i>0 ft.</i>	<i>290 ft.</i>	<i>290 ft.</i>		
	DRILLING BELOW 300 FT.	<i>300 FT.</i>				
	CASING					
	REAMING CASING IN BEDROCK					
	DRILLING 2" HOLE					
	DRILLING BELOW 300 FT.					

TIME REPORT

NAME	TOTAL HOURS	MOVING HOURS	DRIVING CASING	PULLING CASING	DRILLING 2" HOLE	CORING	GROUTING	DELAYS
DRILLER <i>E SPENCE</i>		<i>1</i>	<i>1/2</i>		<i>6</i>		<i>1/2</i>	
HELPER <i>T. DOWNEY</i>								
OTHER								

FIELD COST WORK REPORT

	HOLE NO.	MAN HOURS	EQUIP. HRS.	MATERIALS USED OR LOST							
				BATCHES AMS	CASING (FT)	CASING COUPLINGS	CASING SHOES	DRILL RODS	ROD COUPLINGS	DRILL BITS	OTHER
MOVING											
GROUTING											
CASING											
WATER SUPPLY											
CORE SAMPLING											
OTHER											

REMARKS

*FINISHED JOB 1 Hr picked up pumps
HOSES LOAD DRILL*

[Signature]
ENGINEER

DRILL FOREMAN

APPENDIX A

3. Government Geologists Report

B A S C l a i m G r o u p

Location: NTS 82E/15E Lat. $49^{\circ}55'N$ /Long. $188^{\circ}42'W$

Property occurs 55 kilometres, S45W of Vernon. This is 24 kilometres, S35W of Monashee Pass on Hwy. #6.

Elevation: 1065 metres to 1200 metres

CLAIMS: BAS 1

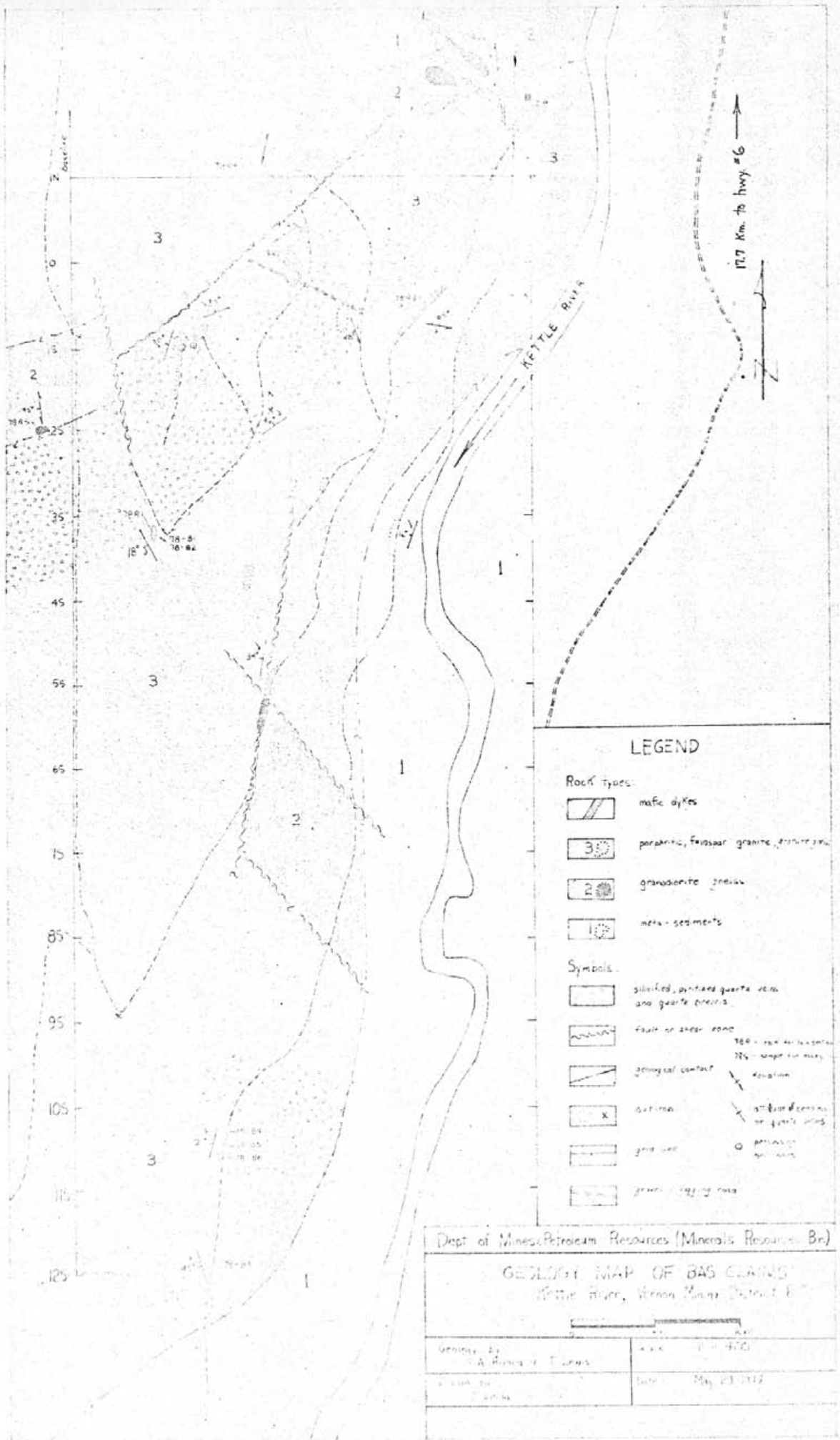
OWNER: R.W. Yorke-Hardy and S.E. Arnold

DESCRIPTION:
















Meta-sediments of unknown age have been intruded by granodiorite gneiss of Nelson age. This granodiorite gneiss has been subsequently intruded by a gneissic feldspar porphritic granite. Fracture zones within the granitic gneiss have provided structural traps for late stage quartz injection.

Quartz veins up to 1 metre wide have been localized in two areas. In the northwest portion of the property, the quartz veins form part of an associated northeasterly trending quartz breccia zone about 170 metres wide. The numerous veins in this zone vary in orientation, but also generally trend northeasterly, and dip northwesterly. Pyrite and minor chalcopryite was noted in the veins in this zone. The second zone outcrops in the south portion of the property. These veins strike northerly and dip westerly. Mineralization observed includes pyrite, galena, sphalerite, chalcopryite, and possibly gold.

Late stage mafic dykes up to 10 metres wide have, with irregular distribution intruded the granitic gneiss. These dykes primarily occur within the zone of quartz brecciation. However, the dykes transect the quartz veins and are not structurally related.



LEGEND

- Rock types:**
-  mafic dykes
 -  peralitic, feldspar granite, quartz gneiss
 -  granodiorite gneiss
 -  meta-sediments
- Symbols:**
-  silicified, pyrite-quartz veins and quartz veins
 -  fault or shear zone
 -  geological contact
 -  outcrop
 -  gneiss
 -  green siltstone
 -  100 - 200 m thickness
 -  200 - 500 m thickness
 -  500 - 1000 m thickness
 -  pyrite-quartz veins
 -  pyrite-quartz veins

Dept of Mines/Petroleum Resources (Minerals Resource Br.)

GEOLOGICAL MAP OF BAS CLAIMS
 Little River, Vernon County, Ontario

Compiled by J.A. Brown & T. Lewis	Scale 1:4000
Date May 23, 1972	



September 8, 1978

Mr. R. Yorke-Hardy
Box 2182
Revelstoke, B.C.
VOE 2S0

Dear Bob:

Further to our telephone conversation of last week, I have compiled what we discussed over the phone. Please find enclosed the complete report, I hope this meets with your satisfaction.

To get greater accuracy for gold and silver would require a combination fire assay and atomic absorption method. This method costs approximately \$25.00/sample. I feel you would better spend your money in a bulk sample test run through a mill as you had planned to do. According to Dr. E.W. Grove, you do not require any forms to do this.

Wishing you every success in your program, I remain,

Yours truly,

Thomas D. Lewis
Geologist
Prospectors Assistance

TDL:evt
Encl.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM..... **T. D. LEWIS and AL RIVARD**

ADDRESS..... **Geological Division**

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT				
		ppm	ppm	%	%	%
		<u>Au</u>	<u>Ag</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>
19504M	78 - B1	3	110	0.15	0.014	0.014
19505M	78 - B2	<1	<10	0.009	0.003	0.006
19506M	78 - B3	<1	<10	0.009	0.028	0.095
19507M	78 - B4	<1	<10	0.006	0.019	0.029
19508M	78 - B5	1.4	48	0.018	1.46	0.47
19509M	78 - B6	6.5	15	0.007	0.31	0.045

THIS DOCUMENT, OR ANY PART THEREOF, MAY NOT BE REPRODUCED
FOR PROMOTIONAL OR ADVERTISING PURPOSES.

DATE..... **June 22, 1978**

W. M. Johnson
.....
CHIEF ANALYST AND ASSAYER.

ROCK SAMPLES

The quartz vein and quartz breccia (stockwork) were sampled and assayed for gold, silver, lead, copper, and zinc. Sample sites are located on accompanying map. The sample number, type and width of sample follows:

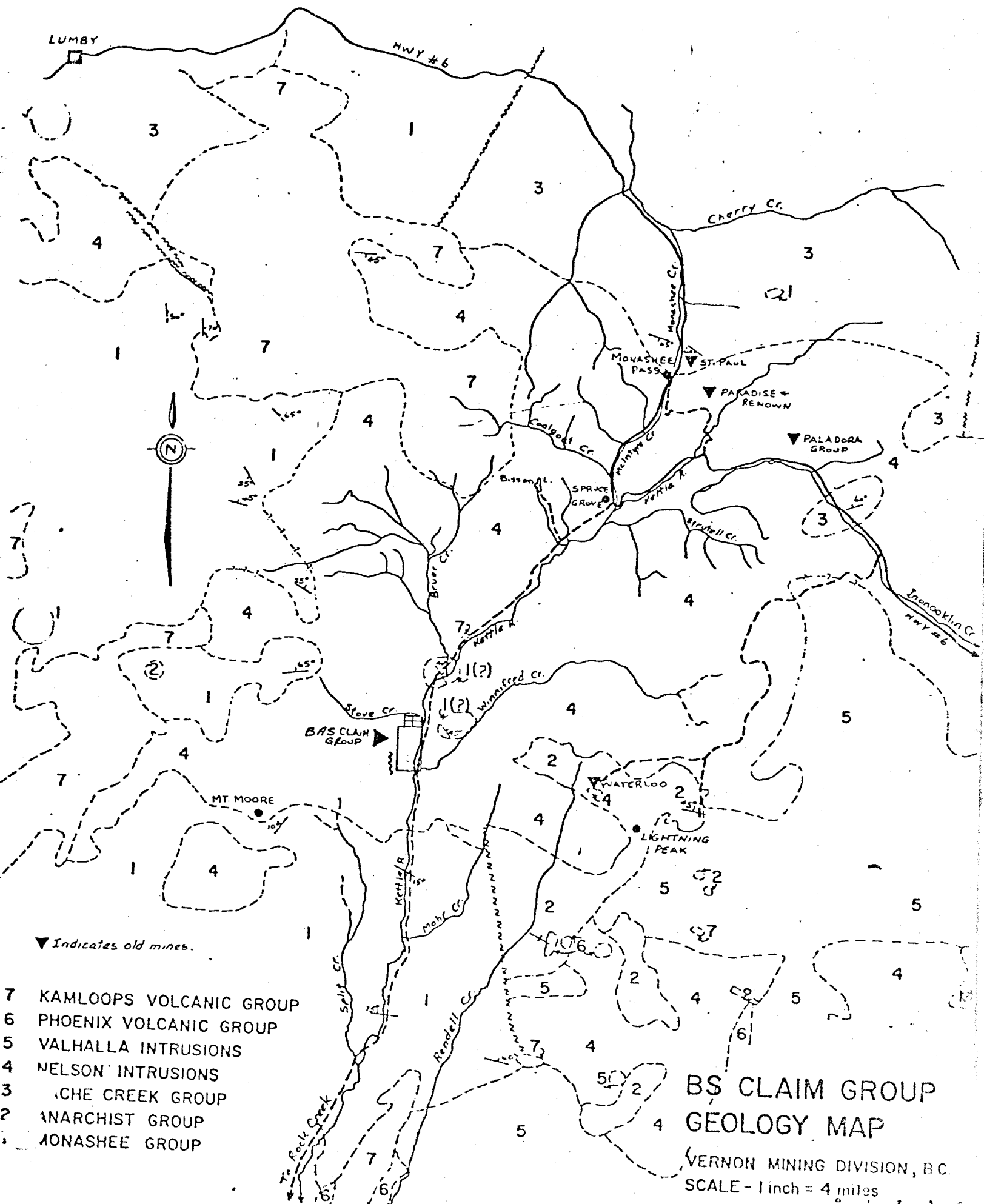
- 78B1 - channel sample across 1.36 meters of quartz vein.
- 78B2 - channel sample across .31 meters of hanging wall above sample 78B1.
- 78B3 - grab sample of quartz vein.
- 78B4 - channel sample across two quartz veins totalling 1.69 meters - upper vein .5 meter
 - 1.04 meters between veins
 - lower vein .15 meter.
- 78B5 - channel sample across upper vein .76 meters wide.
- 78B6 - channel sample across two quartz veins totalling .65 meters wide - upper vein .15 meter
 - .2 meter between veins.
 - lower vein .3 meter.

ANALYTICAL METHOD

Samples were analyzed by the Chief Assayer, Department of Mines and Petroleum Resources, Victoria. Analysis for gold and silver was done by fire assay, while the lead, copper, and zinc values were determined by atomic absorption. The assay results follow on next page.

APPENDIX A

4. Regional Geology, Location and Claim Maps



LUMBY

NWY #6

CHERRY Cr.

MONASHEE PASS

ST. PAUL

PARADISE + RENOWN

PALADORA GROUP

BAS CLAM GROUP

MT. MOORE

WATERLOO

LIGHTNING PEAK

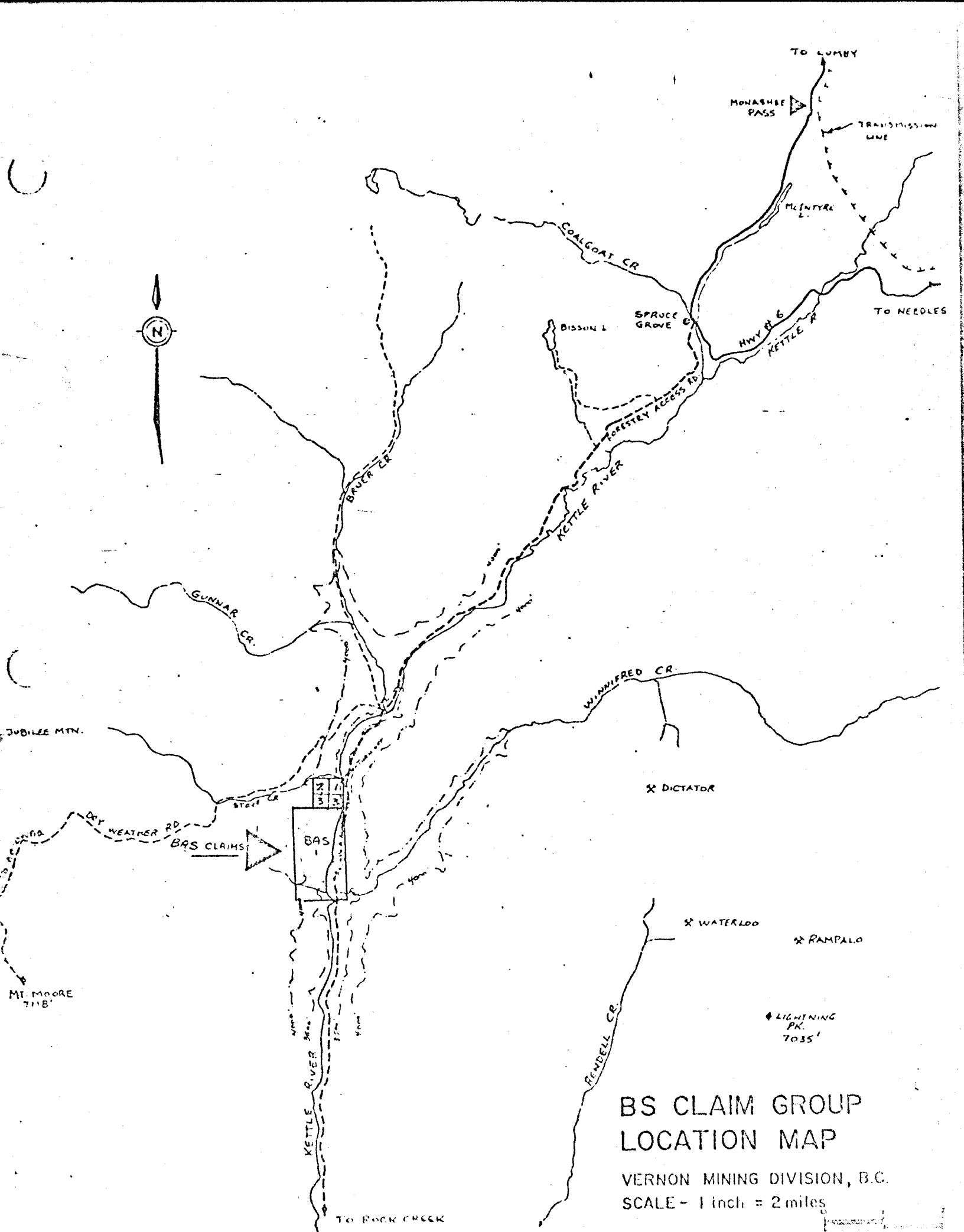
▼ Indicates old mines.

- 7 KAMLOOPS VOLCANIC GROUP
- 6 PHOENIX VOLCANIC GROUP
- 5 VALHALLA INTRUSIONS
- 4 NELSON INTRUSIONS
- 3 CHE CREEK GROUP
- 2 ANARCHIST GROUP
- 1 MONASHEE GROUP

**BS CLAIM GROUP
GEOLOGY MAP**

VERNON MINING DIVISION, B.C.
SCALE - 1 inch = 4 miles

TO ACCOMPANY REPORT BY R.W. YORKE-HARDY M.T., C.E.T.



BS CLAIM GROUP LOCATION MAP

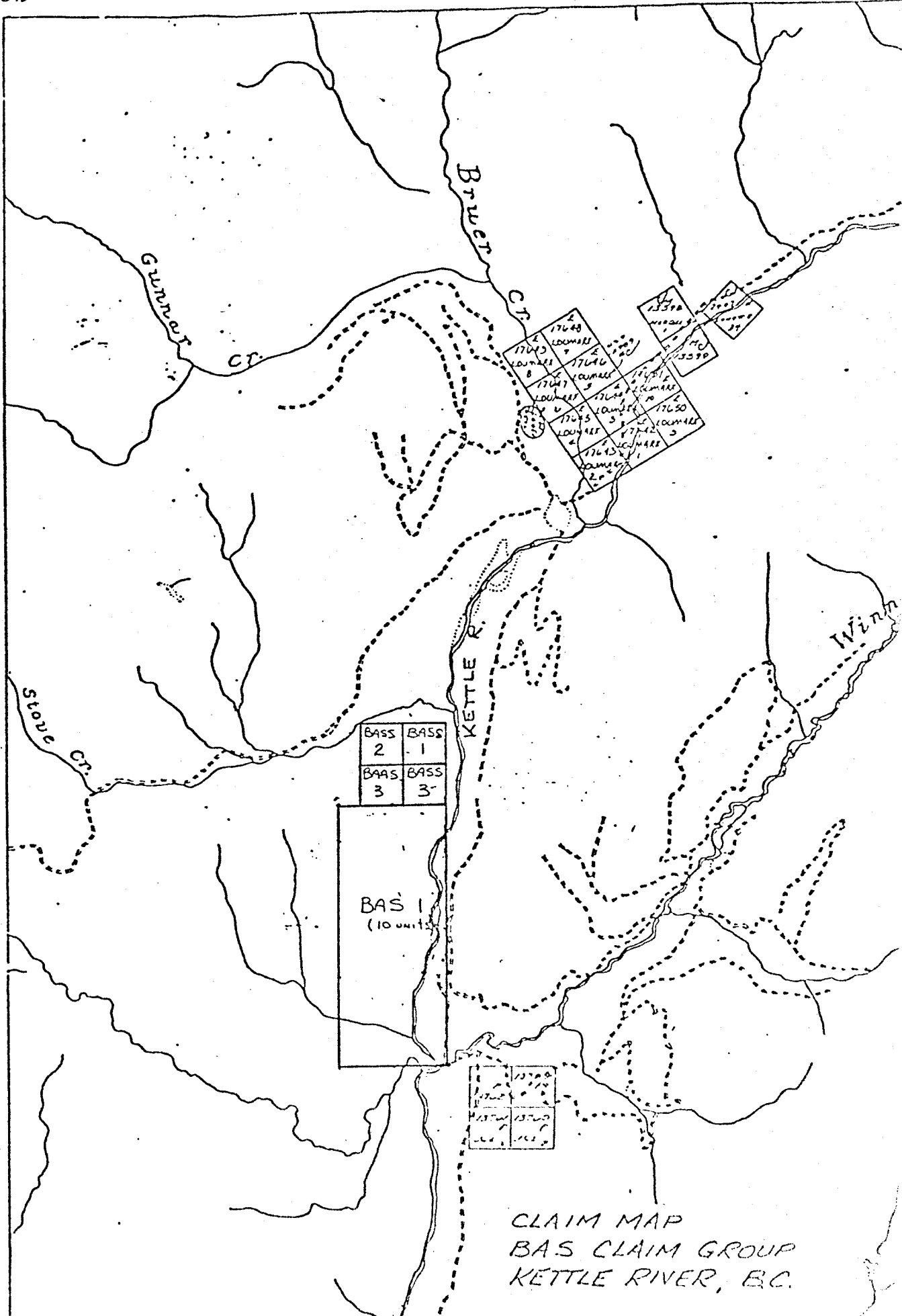
VERNON MINING DIVISION, B.C.
SCALE - 1 inch = 2 miles

M82E/15E

59°06'

5

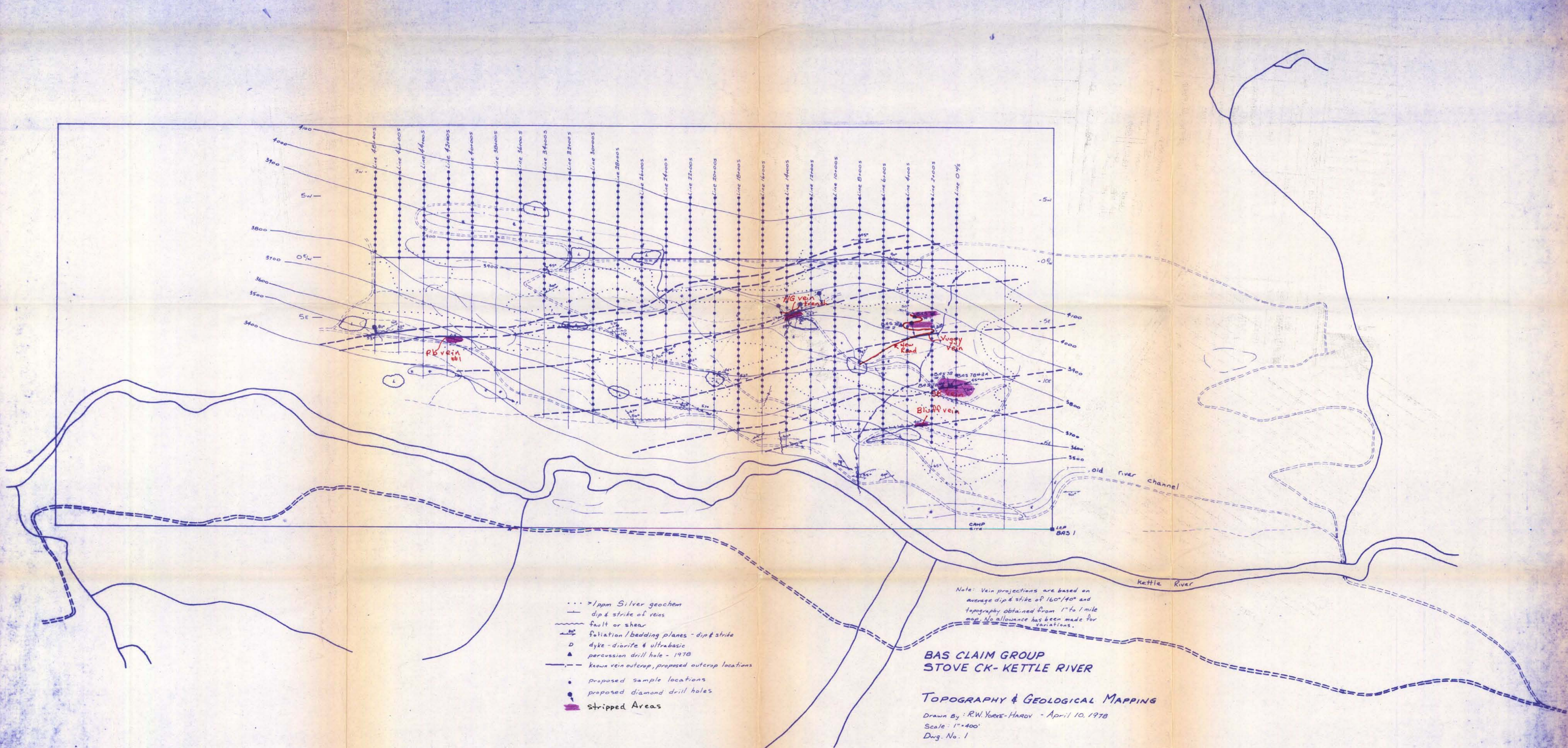
4



BASS 2	BASS 1
BASS 3	BASS 3'
BAS 1 (10 units)	

17648	100MILL
17649	100MILL
17650	100MILL
17651	100MILL
17652	100MILL
17653	100MILL
17654	100MILL
17655	100MILL
17656	100MILL
17657	100MILL
17658	100MILL
17659	100MILL
17660	100MILL
17661	100MILL
17662	100MILL
17663	100MILL
17664	100MILL
17665	100MILL
17666	100MILL
17667	100MILL
17668	100MILL
17669	100MILL
17670	100MILL
17671	100MILL
17672	100MILL
17673	100MILL
17674	100MILL
17675	100MILL
17676	100MILL
17677	100MILL
17678	100MILL
17679	100MILL
17680	100MILL
17681	100MILL
17682	100MILL
17683	100MILL
17684	100MILL
17685	100MILL
17686	100MILL
17687	100MILL
17688	100MILL
17689	100MILL
17690	100MILL
17691	100MILL
17692	100MILL
17693	100MILL
17694	100MILL
17695	100MILL
17696	100MILL
17697	100MILL
17698	100MILL
17699	100MILL
17700	100MILL

CLAIM MAP
BAS CLAIM GROUP
KETTLE RIVER, B.C.



- ... >1ppm Silver geochem
- dip & strike of veins
- fault or shear
- foliation/b bedding planes - dip & strike
- D dyke - diorite & ultrabasic
- ▲ percussion drill hole - 1978
- known vein outcrop, proposed outcrop locations
- proposed sample locations
- proposed diamond drill holes
- Stripped Areas

Note: Vein projections are based on average dip & strike of 160°/40° and topography obtained from 1" to 1 mile map. No allowance has been made for variations.

**BAS CLAIM GROUP
STOVE CK - KETTLE RIVER**

TOPOGRAPHY & GEOLOGICAL MAPPING
 Drawn by: R.W. YORKE-HARDY - April 10, 1978
 Scale: 1" = 400'
 Dwg. No. 1

7259