

GEOCHEMICAL AND GEOLOGICAL REPORT

- on the -

PIKE #1 - #8; ARTOMAS #1 - #5 CLAIMS AND THE
RANCH, VERITAS, AND VERITAS #2 CLAIMS (LOTS #2355 - 2357)

LILLOOET MINING DIVISION
British Columbia

- for -

W. A. Cook,
Box 398, Lillooet, B. C.

WORK PERFORMED: May 29th. to June 7th., 1978.

N.T.S. No's. 92I/12W and 92J/9E. (Pike Claims)

92J/15 (Artomas Claims + L 2355-2357).

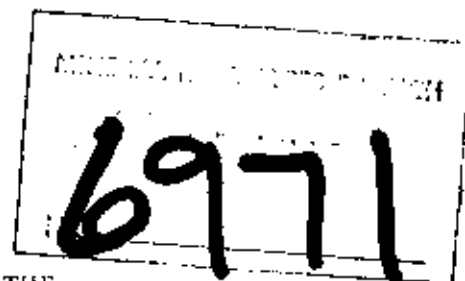
LOCATION: (Pike Claims) Lat. $50^{\circ}38'$
Long $121^{\circ}59.5'$

(Artomas Claims) Lat. $50^{\circ}52.5'$
Long $122^{\circ}56'$

Prepared By:

KERR, DAWSON & ASSOCIATES LTD.,
#1-219 Victoria Street,
KAMLOOPS, B. C.

W. Gruenwald, B. Sc.,
October 17, 1978.



INDEX

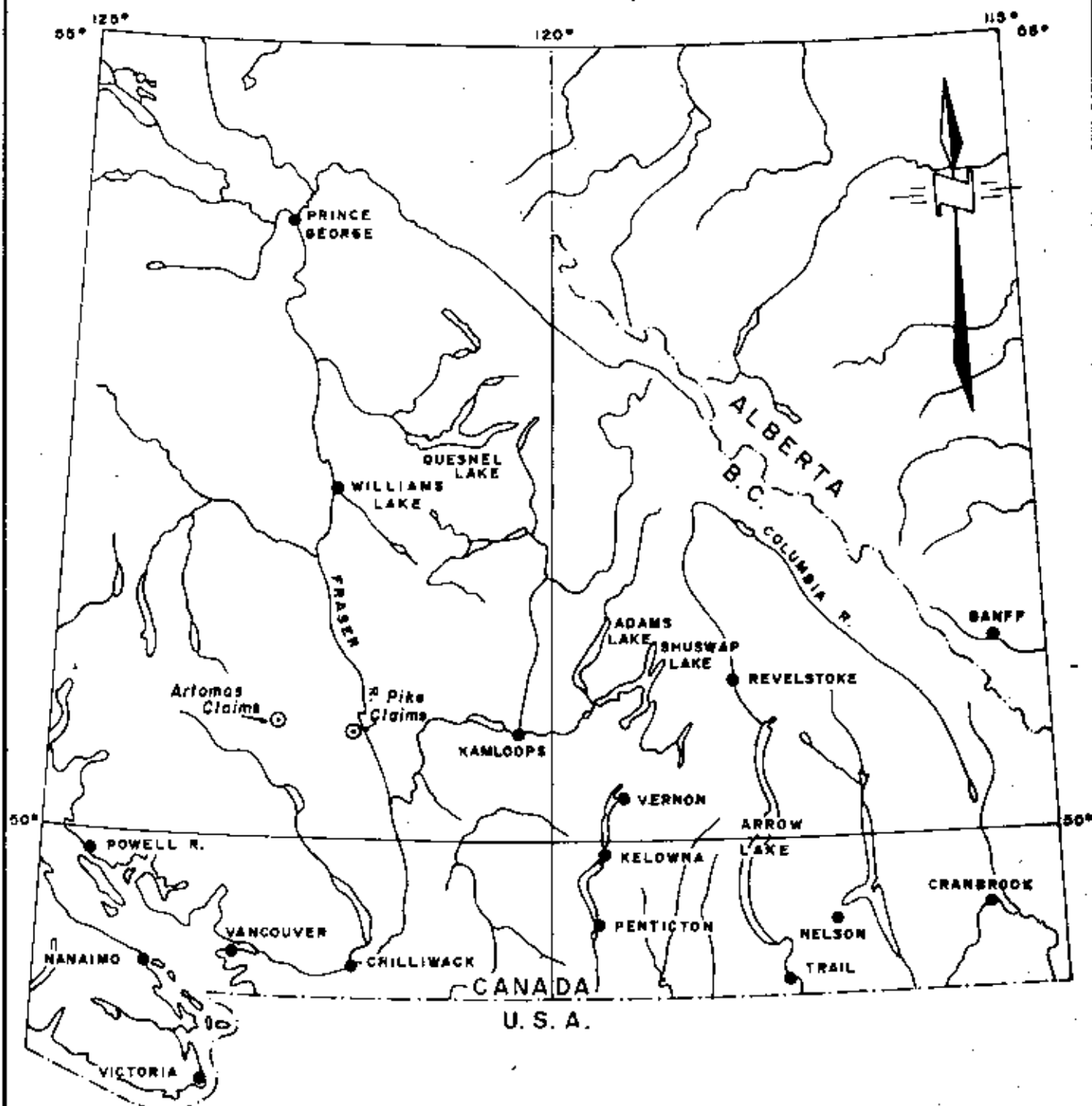
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W. A. COOK	
LOCATION MAP	
ARTOMAS & PIKE CLAIMS	
LILLOOET MINING DIVISION, B.C.	
Date: JUNE, 1976.	Scale: 1" = 64 Miles
Drawn by: W. G.	Dep. no. 171-1

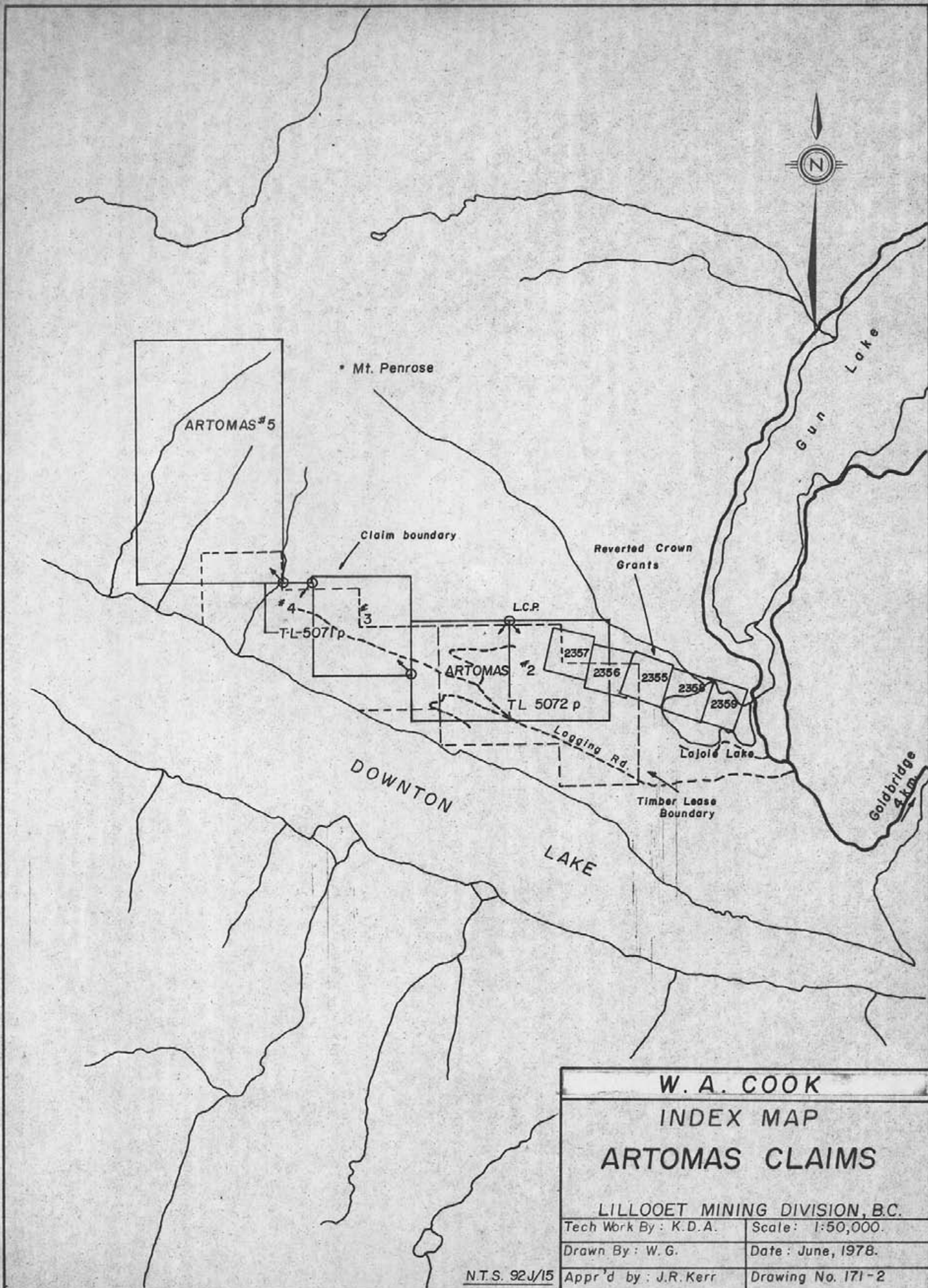
INTRODUCTION

During the period May 29th. to June 7th., 1978, the writer carried out geochemical and geological investigations on the Artomas #1 - #5 inc., and the Pike #1 - #8 inc. claims as well as the Ranch, Veritas and Veritas #2 claims (lots 2355 - 2357 respectively). All claims are owned by William A. Cook of Lillooet, B. C.

The Artomas claims and adjoining Ranch and Veritas claims are situated approximately 8 km. west south-west of Goldbridge, B. C. The Pike claims are situated approximately 7 km. southwest of Lillooet, B. C. (See Figure 171-1). Both areas are in the rugged eastern flank of the Coast Range Mountains.

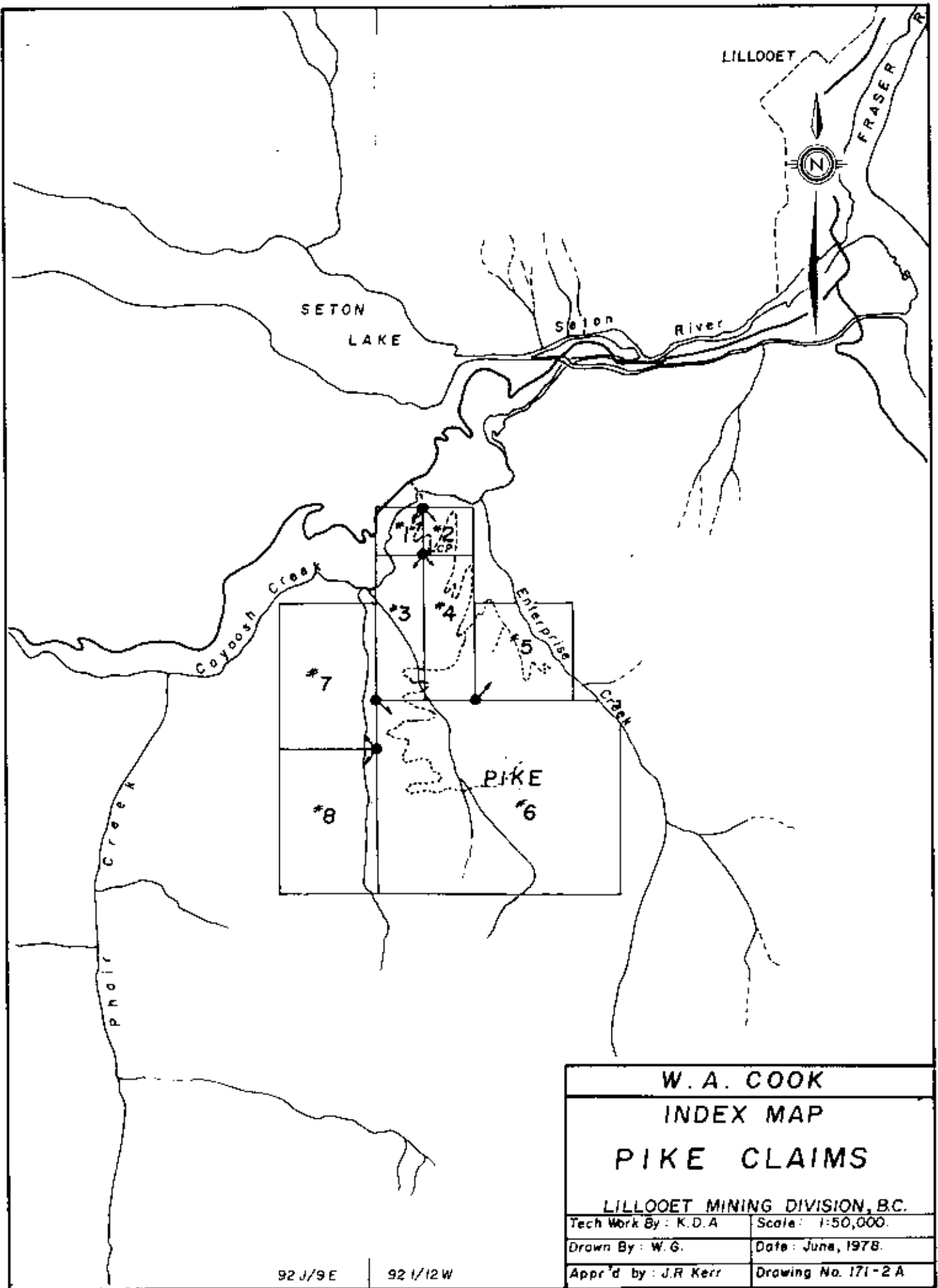
These surveys were performed to determine the possible existence of economic concentrations of gold such as those in and around the Bralorne area (Goldbridge) and the Lillooet area.

This report will serve as a composite report for both the above mentioned claims.



W. A. COOK	
INDEX MAP	
ARTOMAS CLAIMS	
LILLOOET MINING DIVISION, B.C.	
Tech Work By: K.D.A.	Scale: 1:50,000.
Drawn By: W.G.	Date: June, 1978.
Appr'd by: J.R. Kerr	Drawing No. 171-2

N.T.S. 92J/15



W. A. COOK

INDEX MAP

PIKE CLAIMS

LILLOOET MINING DIVISION, B.C.

Tech Work By : K. D. A

Scale : 1:50,000.

Drawn By : W. G.

Date : June, 1978.

Appr'd by : J.R. Kerr

Drawing No. 171-2 A

92 J/9E

92 I/12W

LOCATION AND ACCESS

The Artomas claims and lots 2355-2357 are situated approximately 8 km. west south-west of Goldbridge, B. C. The claims extend from Lajoie Lake (Little Gun Lake) west to the south facing slopes of Mount Penrose. (See Figure 171 - 2).

Access to the Artomas claims is via a newly constructed logging road extending west northwest of Lajoie Lake. The Ranch, Veritas and Veritas #2 claims (lots 2355-2357) may be reached by roads around the north and west sides of Lajoie Lake.

The Pike claims situated approximately 7 km. southwest of Lillooet, B. C. are reached via newly constructed logging roads on the south side of Cayoosh Creek between Enterprise Creek and Phair Creek. (See Figure 171 - 2A).

PHYSIOGRAPHY AND VEGETATION

The Artomas claims and the Ranch and Veritas claims are situated in a mountainous region along the eastern flank of the Coast Range Mountains. Topographic relief varies from moderate in the Lajoie Lake area (less than 500') increasing as one progresses westward to Artomas #5 claim where the relief is over 3,500'. Numerous small creeks and seepages transect the steep south facing slope of Mount Penrose. Vegetation is extensive over all the claims consisting of fir and pine which is presently being logged.

The Pike claims are also situated in a very mountainous region on the eastern flank of the Coast Mountains. Topographic relief is high with slopes generally to the north. Several areas of precipitous cliffs are present. Relief over the north-south extremities of the claims is approximately 4,500'. Vegetation is extensive to at least to the 5,500' elevation. The majority of the vegetation consists of fir, pine, spruce and cedar.

PROPERTIES

The details of the claims are as follows:

<u>Claim Name (or No.)</u>	<u>No. of Units</u>	<u>Mining Division</u>	<u>Record No.</u>	<u>Expiry Date</u>
Artomas	4	Lillooet	593(2)	April 5/79
Artomas 2	4	Lillooet	613(4)	Feb. 14/79
Artomas 3	4	Lillooet	614(4)	April 5/79
Artomas 4	1	Lillooet	622(5)	May 25/79
Artomas 5	<u>15</u>	Lillooet	623(5)	May 25/79
TOTAL.	31			
Ranch (L 2355)	1	Lillooet	584(12)	Dec. 28/78
Veritas (L 2356)	1	Lillooet	585(12)	Dec. 28/78
Veritas #2(L 2357)	1	Lillooet	586(12)	Dec. 28/78
Pike #1	1	Lillooet	553(10)	Oct. 3/78
Pike #2	1	Lillooet	554(10)	Oct. 3/78
Pike #3	3	Lillooet	555(10)	Oct. 3/78
Pike #4	3	Lillooet	556(10)	Oct. 3/78
Pike #5	4	Lillooet	562(10)	Oct. 12/78
Pike #6	20	Lillooet	563(10)	Oct. 12/78
Pike #7	6	Lillooet	564(10)	Oct. 12/78
Pike #8	<u>6</u>	Lillooet	565(10)	Oct. 12/78
TOTAL	44			

All claims are owned by Mr. W. A. Cook of
Lillooet, B. C.

HISTORY

The Artomas claim group is situated only 12 km. northwest of the Bralorne-Pioneer gold mines which ceased their long history of production in the early 1970's. The only known gold property on the claim group is the old Veritas property (Ranch, Veritas, Veritas #2 claims, L2355 - 2357). Over 350 meters of underground development and exploratory work were done in the 1930's; however, little has been done since then on the Veritas property.

No work other than shallow hand trenches and pits was observed on the Artomas claims west of the Veritas property.

The Pike claims area has no history of previous work, except for several small open cuts and short adits that explored quartz veins on the immediate south side of Cayoosh Creek.

The nearest known lode gold property is the Golden Cache (approximately 7 km. west), a small high grade gold deposit worked in the early 1900's.

PRESENT EXPLORATION

During the period May 29th. to June 7th., 1978, the writer carried out detailed geological mapping and geochemical sampling on the Artomas claims, Veritas property (L 2355 - 2357), and the Pike claims.

Recently constructed logging roads provided access to the majority of the claims as well as providing numerous new rock exposures. Geochemical samples of soils, stream sediment and rocks were taken in and around these networks of roads.

REGIONAL GEOLOGY

Regionally the Artomas claim group is situated on the eastern margin of the Coast Crystalline Belt marked in the area by a series of granitic plutons known as the Bendor Intrusions. These plutons have intruded the southwest margin of a large northwest trending antiform composed primarily of Mesozoic sediments, low grade metamorphic rocks, and minor volcanics. Also trending northwesterly through the area are serpentinites and the augite diorite-soda granites (Bralorne Intrusions) that are in part host to the Bralorne-Pioneer Gold Mines.

The Pike claim group is centered in a large northwesterly trending mass of (Mesozoic?) low grade pelitic rocks comprised primarily of argillites, phyllites and schists with lesser quartzites and altered volcanic rocks. Numerous granitic plutons of the Coast Crystalline Belt intrude the southwestern portion of the area.

PROPERTY GEOLOGY(1). Artomas Claims:

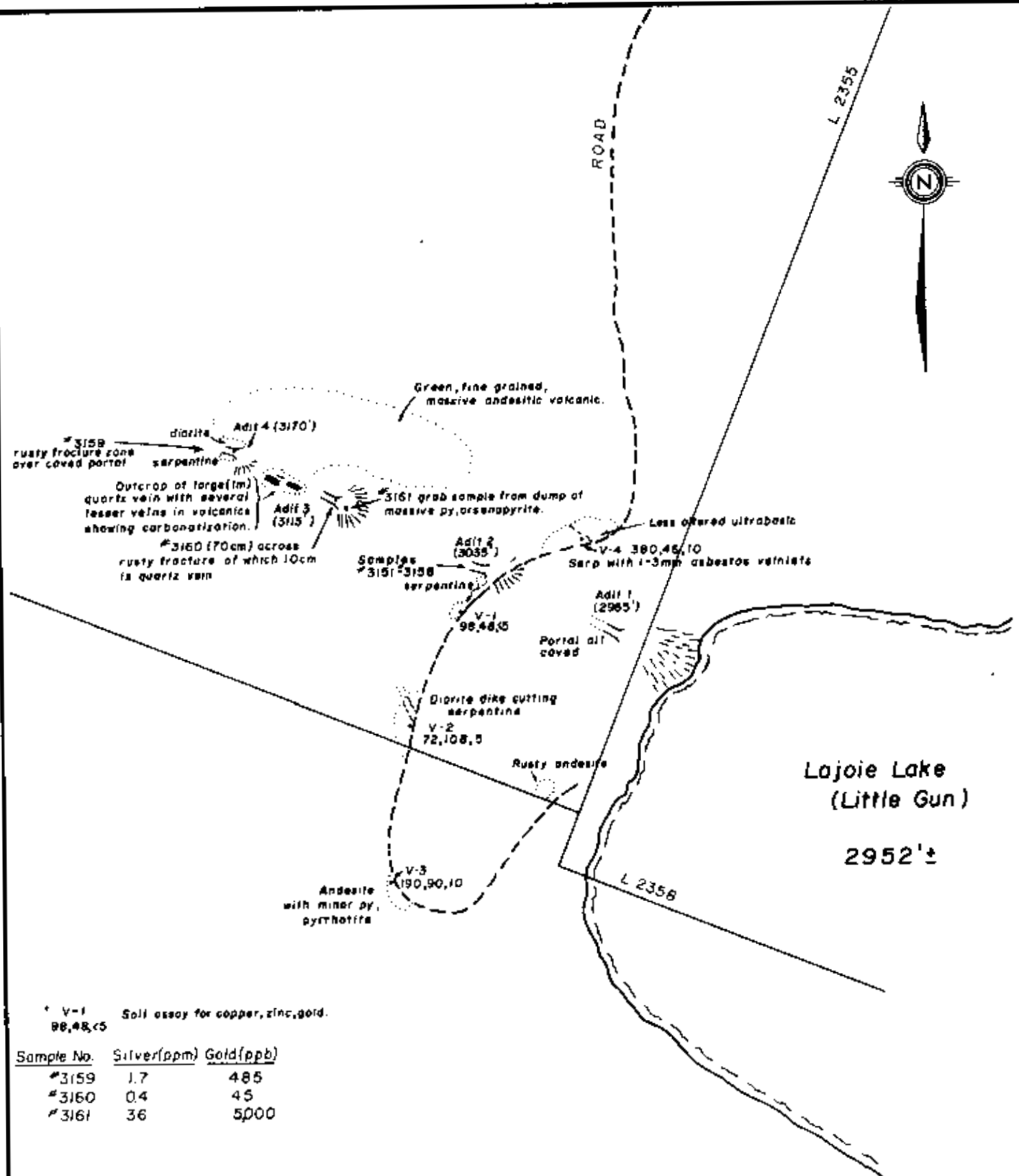
The majority of the Artomas claims (excluding the Veritas property) are underlain by rocks of the Upper Triassic Hurley Formation. These rocks consist of dark gray to black, thinly bedded argillites, locally pyritic (1-3% pyrite) and/or graphitic argillites, coarse limestone-argillite conglomerate, breccia and minor limestone. Much of the northern portion of the Artomas to Artomas #4 claims consist of pale to dark green, fine to medium grained, variably altered andesitic volcanics. Locally these volcanics are carbonatized or silicified and may contain minor pyrite cubes. These volcanic rocks are probably also part of the Triassic Hurley Formation. Located in the northwest portion of the claim block (Artomas #5 and part of Artomas #3, #4) are several northwesterly trending ultrabasic bodies, that have cut the Hurley argillites and andesitic volcanics. The ultrabasic bodies have been extensively serpentized and locally have small pods of impure steatite and possible poor

quality "jade". No mineralization of any economic significance was found on the Artomas claims. A piece of stibnite-quartz float was found approximately 100 m south of the southeast corner of the Artomas #2 claim; however its source was not found.

Attitudes taken on the Hurley argillites indicate a northwesterly strike with steep dips to the southeast. Several northeast dips in the south-central portion of the claims indicate the presence of a possible northwesterly trending synclinal structure. (See Figure 171-3).

(2). Veritas Property, Ranch, Veritas, Veritas #2 Claims, (L-2355 - L-2357).

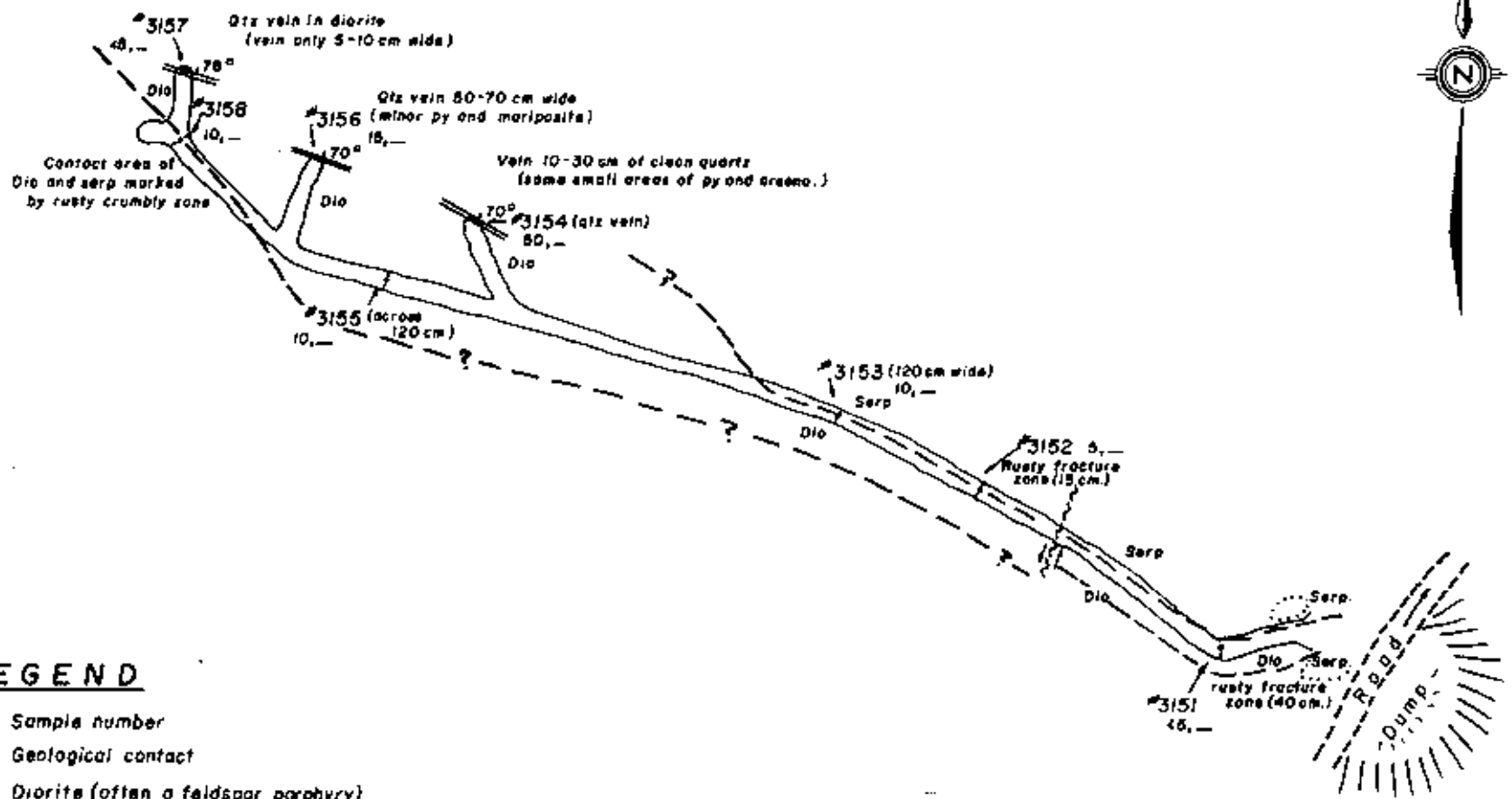
The geology of the Veritas property consists of a northwesterly trending band of diorite in close association with serpentinitized ultrabasic rocks similar to those found in the Bralorne-Pioneer area. The main rock type surrounding the diorite and serpentinite is a pale green, massive, fine grained, andesitic volcanic rock. Subparallel to the diorite-serpentinite contact is a quartz vein(s)



* V-1 Soil assay for copper, zinc, gold.
98,48,5

Sample No.	Silver(ppm)	Gold(ppb)
#3159	1.7	485
#3160	0.4	45
#3161	36	5000

W. A. COOK	
SURFACE GEOLOGY on the VERITAS PROPERTY GOLDBRIDGE AREA LILLOET MINING DIVISION, B.C.	
Tech Work By: K. D. A.	Scale: 1:2500
Drawn By: <i>W.A.C.</i>	Date: June, 1978.
Appr'd by: <i>J.R. Kerr</i>	Drawing No. 171-3A



LEGEND

- 3151 Sample number
- Geological contact
- Dio Diorite (often a feldspar porphyry)
- Serp Serpentine
- Qtz Quartz
- Py Pyrite
- Arseno Arsenopyrite
- 70° Quartz vein showing strike/dip.
- ~~~~~ Fault

*3151, 10, 0.2 Rock assay for gold (ppb) and silver (ppm)

*NOTE: Adit #2 and 1, 3, 4 are located on L. 2355.

W. A. COOK	
SAMPLING & GEOLOGICAL PLAN OF THE VERITAS PROPERTY ADIT #2	
Tech. Work By: K.D.A.	Scale 1:500
Drawn By: <i>W.P.</i>	Date: June, 1978.
Approved By: <i>J.K. Kerr</i>	Drawing No. 171-5A

and/or shear zone that has been explored by at least four adits. Only one adit (Adit #2) was examined in detail since the others were either caved or flooded. The quartz vein observed varied in thickness from 1 cm. to 1 meter; however, in several areas it would split into several smaller veinlets. The quartz vein is generally pure white and usually contains minor pyrite as do the wall rocks. Locally there are more massive concentrations of pyrite with arsenopyrite as observed in dump samples from Adit #3; however, their abundance appeared minimal (\leq 1% of dump material). Minor concentrations of galena and chalcopyrite were observed in the small dump below Adit #4. (See Figure #171 - 3A).

PIKE CLAIM GROUP (See Figure 171-4).

The primary rock type exposed in the claim area is a thick sequence of brown to green phyllites, quartz-sericite schists, argillaceous quartzites and minor argillites of possible Mesozoic age (or older). Intruding these rocks, especially in the northern end of the claim block are a series of plugs and dykes of

pale green, medium grained feldspar porphyry. Also in this area are several quartz + carbonate veins one of which returned low to moderate values in gold. Several have been explored by shallow hand trenches, one of which exposed minor galena mineralization (sample E-4).

The rugged southern portion of a Pike #6 and #8 contain several areas of narrow quartz veins most of which are barren except for minor malachite and limonite staining. The only mineralization of any significance noted in this area was a piece of pyrrhotite-chalcopyrite float that had been transported by snow-slides from the cliffs further south. Situated in the creek valley in the southern portion of Pike #4, are several areas of recently deposited fossiliferous tufa that are still actively discharging carbonate rich water.

The rocks over the entire property have a general northwest trend (schistosity) and dips to the southwest and northeast suggesting the possible presence of anticlinal structures.

GEOCHEMISTRY

The following represents the sampling carried out on each claim group.

I. Artomas Claim Group:

- i) Artomas Claims: 62 soil and silt samples;
4 rock chip samples.
- ii) Veritas Property (Ranch, Veritas, Veritas #2 claims - L 2355-2357).
4 soil samples; 11 rock chip samples.

II. Pike Claim Group:

67 soil and silt samples; 7 rock chip samples.

All soil samples were collected from the "B" horizon (15-35 cm. deep). Silt samples were the finer grained fraction of the active portion of the stream or seepage. All samples were placed in Kraft paper envelopes and shipped to Bondar, Clegg and Co. Ltd. in Vancouver for analysis. The samples were then dried and sieved with the minus 80 mesh fraction being used. (Rock samples were ground to minus 80 mesh). Extraction was by hot aqua regia for copper, zinc, and silver and

fire assay and hot aqua regia for gold. Analysis for all four elements was by atomic absorption with results stated in parts per million (ppm), for copper, zinc, silver, and in parts per billion (ppb) for gold.

The mean (\bar{x}) and standard deviation (s) of copper, zinc, and gold were calculated and then classified into the following categories. The Veritas property sampling was not included in these calculations.

Artomas Claims:

	<u>Copper (ppm)</u>	<u>Zinc (ppm)</u>	<u>Gold (ppb)</u>
Negative ($< \bar{x}$)	< 69	< 93	< 5
Possibly Anomalous (\bar{x} to $\bar{x} + 1s$)	69-125	93-149	
Probably Anomalous ($x+1s$ to $x + 2s$)	125-181	149-205	
Definitely Anomalous ($> x + 2s$)	> 181	> 205	> 20

Pike Claims:

	<u>Copper (ppm)</u>	<u>Zinc (ppm)</u>	<u>Gold (ppb)</u>
Negative	< 104	< 109	< 55
Possibly Anomalous	104-204	109-179	55-75
Probably Anomalous	204-304	179-249	75-115
Definitely Anomalous	> 304	> 249	> 115

All values were then plotted on base maps at a scale of 1 to 5,000 or 1 cm. = 50 meters. (See figures 171 - 5 & 6).

ARTOMAS CLAIMS:

The geochemical response over the Artomas claims were minimal with only one sample being definitely anomalous for copper and five samples were in the definitely anomalous category for zinc. (See figure 171-5). No samples were anomalous in gold. All anomalous samples were located on or near known argillaceous outcrops. These often pyritic (and rusty) outcrops are the probable source of the anomalous zinc and copper values. No definite geochemical pattern was indicated by any of the "local" high values. All rock chip samples from the Artomas claims gave "negative" results for gold.

PIKE CLAIMS:

Geochemically the Pike claim group is more "active" with definitely anomalous values observed for copper, zinc, and gold. (See figure 171-6).

Four samples were in the definitely anomalous category for copper, two of which are located in the extremely rugged southwest corner of Pike #6. The other two anomalous copper samples are located in Pike #1, just east of Cayoosh Creek near the contact of the argillites-phyllites and the feldspar porphyry.

The definitely anomalous category for zinc is comprised of four samples, two of which are located in the argillite-phyllite-feldspar porphyry areas of Pike #1 and #2 claims. Another anomalous zinc sample is located in the east central portion of Pike #5 and corresponds to fractured phyllites and argillites. The fourth anomalous zinc value is found in the steep southern portion of Pike #8.

Seven samples and one rock sample gave definitely anomalous values in gold. Three samples are situated in the steep phyllite cliffs of Pike #6 and #8.

Two anomalous samples are located in the west central part of Pike #5 and may be quite significant since bedrock was not observed. The only anomalous rock sample is from a quartz-carbonate vein located in the southwest portion of Pike #2. The remaining anomalous samples are a soil sample in the southwest portion of Pike #2 and a silt sample located along the Pike #6 and #7 boundary.

VERITAS PROPERTY. (Ranch, Veritas and Veritas #2 Claims (L-2355-2357).

Sampling on the Veritas property consisted primarily of rock chip sampling of the vein(s) in Adit #2 (see figure 171-5A). The portal vein exposures of Adit #3 and #4 were also sampled as was the minor amounts (< 1% of dump) of massive sulphides observed in the Adit #3 dump. In addition, four soil samples were collected north and south of the vein system.

The gold values from Adit #2 were all negative as was the portal vein sample for Adit #3 (caved and flooded). The portal vein sample of Adit #4 gave weakly anomalous, silver, and moderately anomalous gold values.

The only definitely anomalous sample was the grab sample of massive pyrite and arsenopyrite from the Adit #3 dump (see figure 171-3A). Since this massive sulphide material comprises such a small portion of the vein system it is of only minor significance.

The soil samples were all negative except for one anomalous copper value (V-4, Figure 171-3A) in serpentinite near Adit #2.

SUMMARY AND CONCLUSIONS

- (1). The Artomas claim group consisting of 31 contiguous units (including the Ranch, Veritas, Veritas #2 claims) is situated approximately 8 km. northwest of Goldbridge, B. C. along the north side of Downton Lake. The Pike Claim group consisting of 44 contiguous units is situated 7 km. southwest of Lillooet, B. C. on the south side of Cayoosh Creek. Both claim groups are owned by Mr. W. A. Cook and are located in the Lillooet Mining Division.

- (2). The Artomas and Pike claim groups are situated in and along a northwesterly trending belt of Mesozoic sedimentary, volcanic and "low grade" metamorphic rocks intruded by granitic plutons of the Coast Crystalline Belt.

- (3). The Artomas claims were geochemically negative except for a few local moderately anomalous copper and zinc values in rusty argillaceous sediments of the Triassic Hurley formation.

- (4). The underground and surface sampling of the Veritas property generally gave negative results except for one dump sample of massive pyrite and arsenopyrite from Adit #3, indicating the presence of a small pod of moderately high grade gold and silver mineralization within the known vein system.

- (5). The Pike claim group gave a more positive geochemical response with a number of anomalous values for copper, zinc, and gold in a metamorphosed sequence of pelitic rocks containing numerous dykes and scattered quartz veins. One area in particular (Pike #5), gave two anomalous gold values in an area devoid of any outcrops and may thus be of significance.

RECOMMENDATIONS

The following are the recommendations based on results to date:

(1). Artomas Claims: No further work is proposed for the claims and they should be allowed to lapse, unless further road building exposes any favourable rock types or vein systems.

(2). Veritas Property: (Ranch, Veritas, Veritas #2 Claims L-2355-2357).

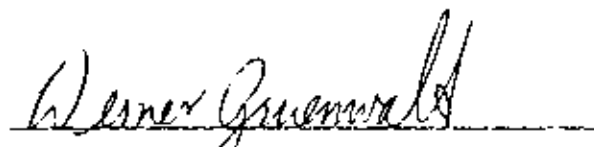
Based on the previous extensive underground work and present sampling, no further work is recommended. As a low priority, Adit #3 could be opened, dewatered and the vein system could be sampled, especially any massive sulphide zones.

(3). Pike Claims: The central portion of the Pike claims warrants the most interest especially in the Pike #5 claim. A small soil sampling grid in the area of the two anomalous gold values (Pike #5), should be established to delineate any geochemical pattern and any further road work in

this area or in the west central portion of the claim block should definitely be examined. The few anomalies (copper, zinc, and gold) in the southern portion of the claims do not warrant any further work due to the extreme ruggedness of the area.

Respectfully Submitted By:

KERR, DAWSON & ASSOCIATES LTD.,



W. Gruenwald, B. Sc.,
GEOLOGIST

October 17th., 1978,

KAMLOOPS, B. C.

APPENDIX A

GEOCHEMICAL ASSAYS



BONDAR-CLEGG & COMPANY LTD.

1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

Extraction Cu, Zn, Ag; Hot Aqua Regia U; Hot HNO₃ Report No. 28 - 320
Au; Fire Assay & Hot Aqua Regia
 Method U; Fluorimetric
Cu, Zn, Ag, Au; Atomic Absorption From Kerr-Dawson & Assoc.
 Fraction Used _____ Date June 15 1978

SAMPLE NO.	Cu ppm	Zn ppm	Ag ppm	U ppm	Au pB	REMARKS
DK 1	53	60	-	-	< 5	
2	50	88	-	-	< 5	
2A	66	82	-	-	< 5	
3	93	176	-	-	< 5	
4	54	120	-	-	5	
5	51	80	-	-	< 5	
6	56	80	-	-	< 5	
7	220	256	-	-	5	
8	53	80	-	-	< 5	
9	92	116	-	-	<50*	
10	29	72	-	-	< 5	
11	5	44	-	-	< 5	
12	7	120	-	-	< 5	
13	87	78	-	-	5	
13A	49	62	-	-	< 5	
14	29	84	-	-	< 5	
15	115	132	-	-	< 5	
16	54	60	-	-	< 5	
17	109	230	-	-	10	
18	51	118	-	-	5	
19	63	64	-	-	< 5	
20	101	134	-	-	< 5	
21	74	72	-	-	< 5	
22	61	44	-	-	5	
23	34	52	-	-	< 5	
24	50	158	-	-	< 5	
25	54	154	-	-	< 5	
26	25	98	-	-	< 5	
27	42	60	-	-	< 5	
28	47	58	-	-	< 5	

Geochemical Lab Report

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Page No 2

SAMPLE NO.	Cu ppm	Zn ppm	Ag ppm	U ppm	Au ppb	REMARKS
DR 29	99	80	-	-	< 5	
30	70	146	-	-	< 5	
31	103	84	-	-	<10*	
32	168	280	-	-	5	
33	112	164	-	-	5	
34	37	56	-	-	< 5	
35	52	76	-	-	< 5	
36	63	104	-	-	< 5	
37	89	108	-	-	< 5	
38	97	84	-	-	< 5	
39	112	120	-	-	5	
40	78	88	-	-	5	
1S	59	64	-	-	10	
2S	20	34	-	-	5	
3S	5	20	-	-	< 5	
4S	48	42	-	-	< 5	
5S	14	20	-	-	5	
6S	50	100	-	-	5	
7S	27	48	-	-	< 5	
8S	31	34	-	-	< 5	
D 41	67	80	-	-	< 5	
42	49	88	-	-	< 5	
43S	15	46	-	-	< 5	
44S	37	56	-	-	5	
45S	38	64	-	-	5	
46S	78	74	-	-	5	
47	86	288	-	-	15	
48	16	36	-	-	5	
49	53	116	-	-	5	
50	136	248	-	-	5	
51	38	66	-	-	15	
52S	18	44	-	-	< 5	
E 1	116	170	-	-	45	
2	370	374	-	-	45	
3	600	150	-	-	60	

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 28 - 320

Page No. 3

SAMPLE NO.		Cu ppm	Zn ppm	Ag ppm	U ppm	Au ppb	REMARKS
E	5	230	84	-	-	450	
	6	53	92	-	-	25	
	7	148	176	-	-	15	
	8	182	264	-	-	10	
	9	73	100	-	-	5	
	10	155	94	-	-	30	
	11	60	94	-	-	10	
	12	87	146	-	-	70	
	13	171	204	-	-	25	
	14	96	126	-	-	30	
	15	74	76	-	-	35	
	16	150	104	-	-	10	
	17	72	116	-	-	10	
	18	50	88	-	-	15	
	19	54	100	-	-	10	
	20	77	70	-	-	15	
	21	66	94	-	-	15	
	22	250	340	-	-	10	
	23	68	104	-	-	20	
	24	70	76	-	-	125	
	25	132	114	-	-	150	
	26	58	64	-	-	30	
	27	99	80	-	-	60	
	28S	14	12	-	-	< 5	
	29	71	86	-	-	45	
	30	66	72	-	-	20	
	31	57	78	-	-	45	
	32	88	84	-	-	35	
	33	73	76	-	-	10	
	34S	31	66	-	-	25	
	35	79	56	-	-	45	
	36	82	82	-	-	30	
	37	230	88	-	-	10	
	38	70	180	-	-	15	
	39	83	206	-	-	10	

Geochemical Lab Report

Report No. 28 - 320

Page No. 4

SAMPLE NO	Cu ppm	Zn ppm	Au ppm	U ppm	Ag ppb	REMARKS
E 40	45	120	-	-	10	
41	45	80	-	-	20	
42	55	98	-	-	15	
43	64	66	-	-	75	
44	50	74	-	-	20	
45	84	192	-	-	25	
46	53	78	-	-	25	
47	76	84	-	-	20	
48S	14	14	-	-	< 5	
49	60	78	-	-	5	
50S	74	82	-	-	50	
51S	65	80	-	-	55	
52S	53	68	-	-	25	
53S	58	62	-	-	30	
54S	74	62	-	-	155	
55S	73	78	-	-	10	
56S	65	78	-	-	30	
57S	61	74	-	-	15	
58S	60	78	-	-	20	
59	127	124	-	-	10	
60	150	88	-	-	950	
61	154	376	-	-	5	
62	380	116	-	-	10	
63	178	92	-	-	190	
64	360	88	-	-	165	
65	31	58	-	-	30	
66	39	68	-	-	30	
67	34	96	-	-	45	
V 1	98	48	-	-	< 5	
2	72	108	-	-	5	
3	190	90	-	-	10	
4	380	46	-	-	10	
3151 ROCKS	-	-	-	-	< 5	
3152	-	-	-	-	5	
3153	-	-	-	-	10	

APPENDIX B

PERSONNEL

PERSONNEL

FIELD:

W. Gruenwald, Geologist - May 28 to June 8, 1978 11 days

OFFICE:

W. Gruenwald, Geologist - June 9, 13-17, August
1, 3, 4, 5,
September 24, 25. 8 1/2 days

APPENDIX C

STATEMENT OF EXPENDITURES

COST OF PROGRAMME

on the

ARTOMAS AND PIKE CLAIM GROUPS

Personnel:

Field Work:

W. Gruenwald, 11 days @ \$110.00/day \$1,210.00

Office:

W. Gruenwald, 8 1/2 days @ \$110.00/day 935.00

Geochemical Analysis:

133 soil and silt samples analyzed for
Copper, Zinc, Gold @ \$5.00/sample \$665.00

21 rock samples analyzed for Gold
@ \$7.50/sample 157.50

4 rock samples analyzed for Silver
@ \$6.00/sample 24.00

1 rock sample analyzed for Uranium
@ \$3.50/sample 3.50 850.00

Truck Rental:

12 days @ \$15.00/day \$180.00

570 miles @ 15¢/mile 85.50 265.50

Room and Board:

12 man days @ \$30.00/man/day 360.00

Map printing, Blow-ups, Xeroxing, Secretarial, and
Miscellaneous Supplies:

285.05

Equipment Rental:

100.00

TOTAL HEREIN \$4,005.55

APPENDIX D

AFFIDAVIT IN SUPPORT OF STATEMENT OF
EXPENDITURES

C A N A D A

PROVINCE OF BRITISH COLUMBIA

) IN THE MATTER of the Statement
) of Expenditures for the Geochemical
) and Geological exploration of the
) Artomas and Pike Claims in the
) Lillooet Mining Division.
)

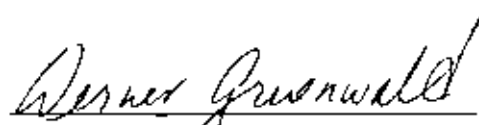
I, WERNER GRUENWALD, GEOLOGIST of #1-219 Victoria Street, in the
City of Kamloops, in the Province of British Columbia,

DO SOLEMNLY DECLARE:

- (1). THAT the geochemical and geological investigations of the
Artomas and Pike Claims were carried out by the writer under
the supervision of J. R. Kerr, P. Eng.
- (2). THAT the statement of expenditures set out in Appendix C of
my report entitled "Geochemical and Geological Report on
the Pike #1 - #8; Artomas #1 - 5 and Lots 2355-2357" dated
October 17th., 1978, truly represents the amounts expended
on geochemical and geological surveys of the said claims.

AND I make this solemn declaration conscientiously believing it to
be true and knowing that it is of the same force and effect as if
made under oath, and by virtue of the Canada Evidence Act.

DECLARED BEFORE ME AT THE CITY
OF KAMLOOPS IN THE PROVINCE OF
BRITISH COLUMBIA, THIS 17
DAY OF OCTOBER, A. D. 1978.



Werner Gruenwald, B. Sc.,
GEOLOGIST



A COMMISSIONER FOR TAKING
AFFIDAVITS FOR BRITISH COLUMBIA.

STU PIKE

*Commissioner for taking Affidavits
within British Columbia*

APPENDIX E

REFERENCES

REFERENCES

- (1). CAIRNES, C. E. 1937 Geology and Mineral Deposits
of Bridge River Mining Camp,
British Columbia. Memoir #213.
- (2). DUFELL, S. & McTAGGART,
K. C. 1951 Ashcroft Map Area, British
Columbia, Memoir 262, Map 1010A..
- (3). RODDICK, J. A. &
HUTCHISON, W. W. 1973 Pemberton (East Half) Map Area,
British Columbia.

APPENDIX F

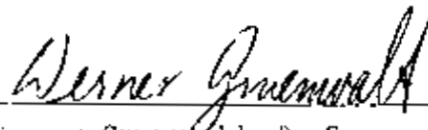
WRITER'S CERTIFICATE

STATEMENT OF QUALIFICATIONS

I, WERNER GRUENWALD, OF KAMLOOPS, BRITISH COLUMBIA, DO HEREBY
CERTIFY THAT:

- (1). I am a geologist residing at #13 - 1435 Summit Drive,
Kamloops, British Columbia, and employed by Kerr,
Dawson and Associates Ltd. of Suite #1 - 219 Victoria
Street, Kamloops, British Columbia.
- (2). I am a graduate of the University of British Columbia,
B. Sc., (Geology), 1972, and have practised my profession
for 6 1/2 years.
- (3). I am the author of this report which is based on an
exploration programme that included geochemical soil and
rock sampling and geological mapping.

KERR, DAWSON & ASSOCIATES LTD.,



Werner Gruenwald, B. Sc.,
GEOLOGIST

October 17th., 1978,
KAMLOOPS, B. C.

JOHN R. KERR, P.ENG.
GEOLOGICAL ENGINEER

219 VICTORIA STREET
KAMLOOPS, B.C.
PHONE (604) 374-0544

CERTIFICATE

I, JOHN R. KERR, OF KAMLOOPS, BRITISH COLUMBIA, DO HEREBY CERTIFY
THAT:

- (1). I am a geologist employed by Kerr, Dawson and Associates Ltd., of Suite #1 - 219 Victoria Street, Kamloops, B. C.
- (2). I am a graduate of the University of British Columbia, B. Sc., (1964), a fellow of the Geological Association of Canada and a Member of the Professional Engineers of B. C. I have practised my profession for 14 years.
- (3). Werner Gruenwald, employed by Kerr, Dawson and Associates Ltd. and author of the report entitled "Geochemical and Geological Report on the Pike #1 - #8; Artonas #1 - #5 Claims and the Ranch, Veritas, and Veritas #2 claims (lots 2355-2357)" was under my supervision during the work on the above mentioned claims.

KERR, DAWSON AND ASSOCIATES LTD.,



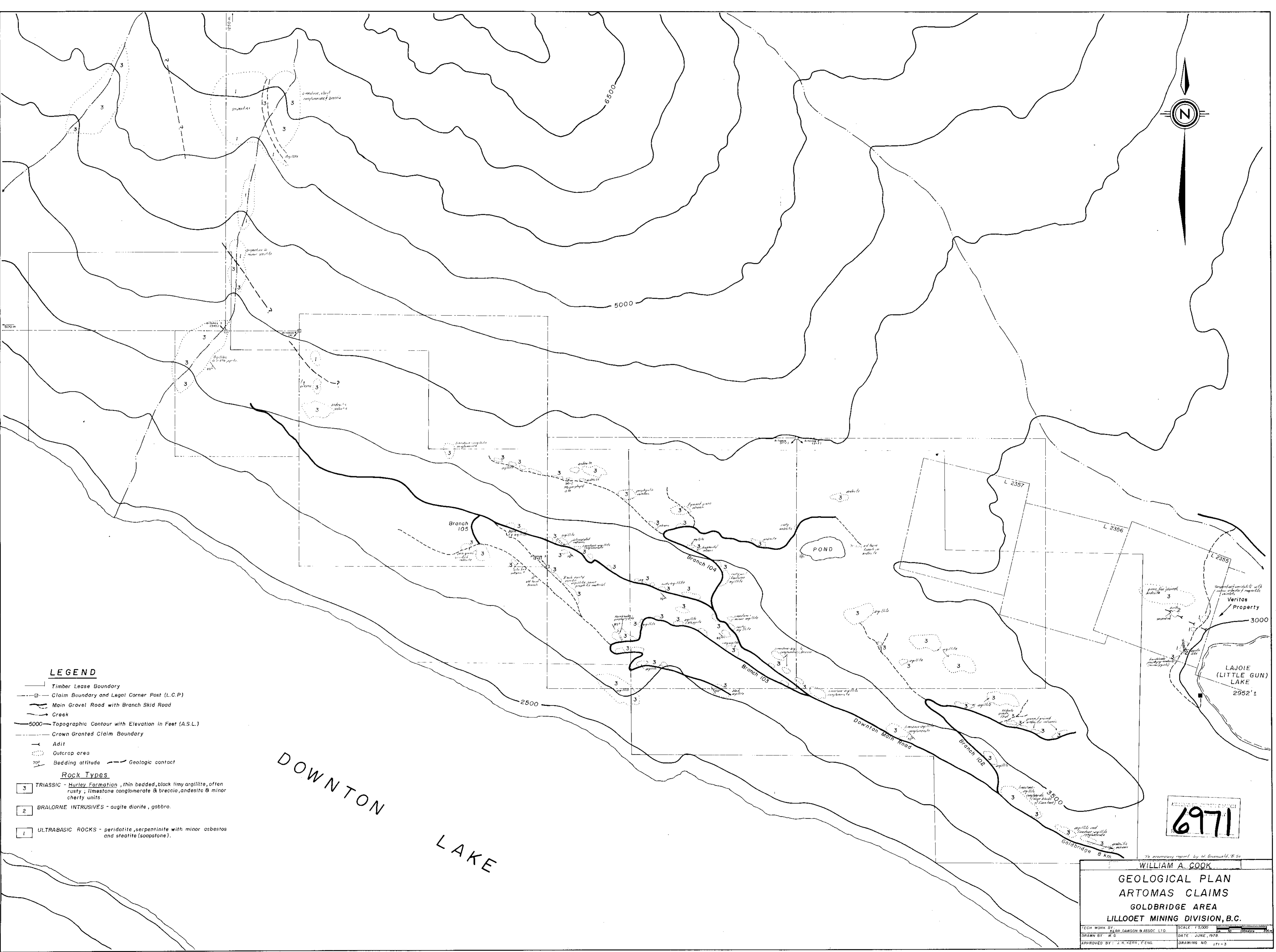
John R. Kerr

John R. Kerr, B. A. Sc., P. Eng.,
GEOLOGIST

October 17th., 1978,
KAMLOOPS, B. C.

APPENDIX G

MAPS



LEGEND

- Timber Lease Boundary
- - - Claim Boundary and Legal Corner Post (L.C.P.)
- Main Gravel Road with Branch Skid Road
- Creek
- 5000 Topographic Contour with Elevation in Feet (A.S.L.)
- - - Crown Granted Claim Boundary
- Adit
- Outcrop area
- 70° Bedding attitude
- Geologic contact

Rock Types

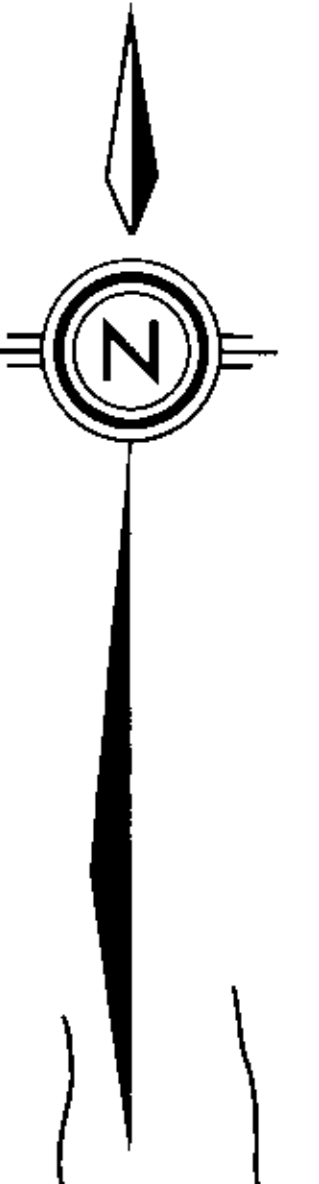
- 3 TRIASSIC - Hurley Formation, thin bedded, black limy argillite, often rusty; limestone conglomerate & breccia, andesite & minor cherty units
- 2 BRALORNE INTRUSIVES - augite diorite, gabbro.
- 1 ULTRABASIC ROCKS - peridotite, serpentinite with minor asbestos and steatite (soapstone).

DOWNTON
LAKE

WILLIAM A. COOK
**GEOLOGICAL PLAN
ARTOMAS CLAIMS
GOLDBRIDGE AREA
LILLOOET MINING DIVISION, B.C.**

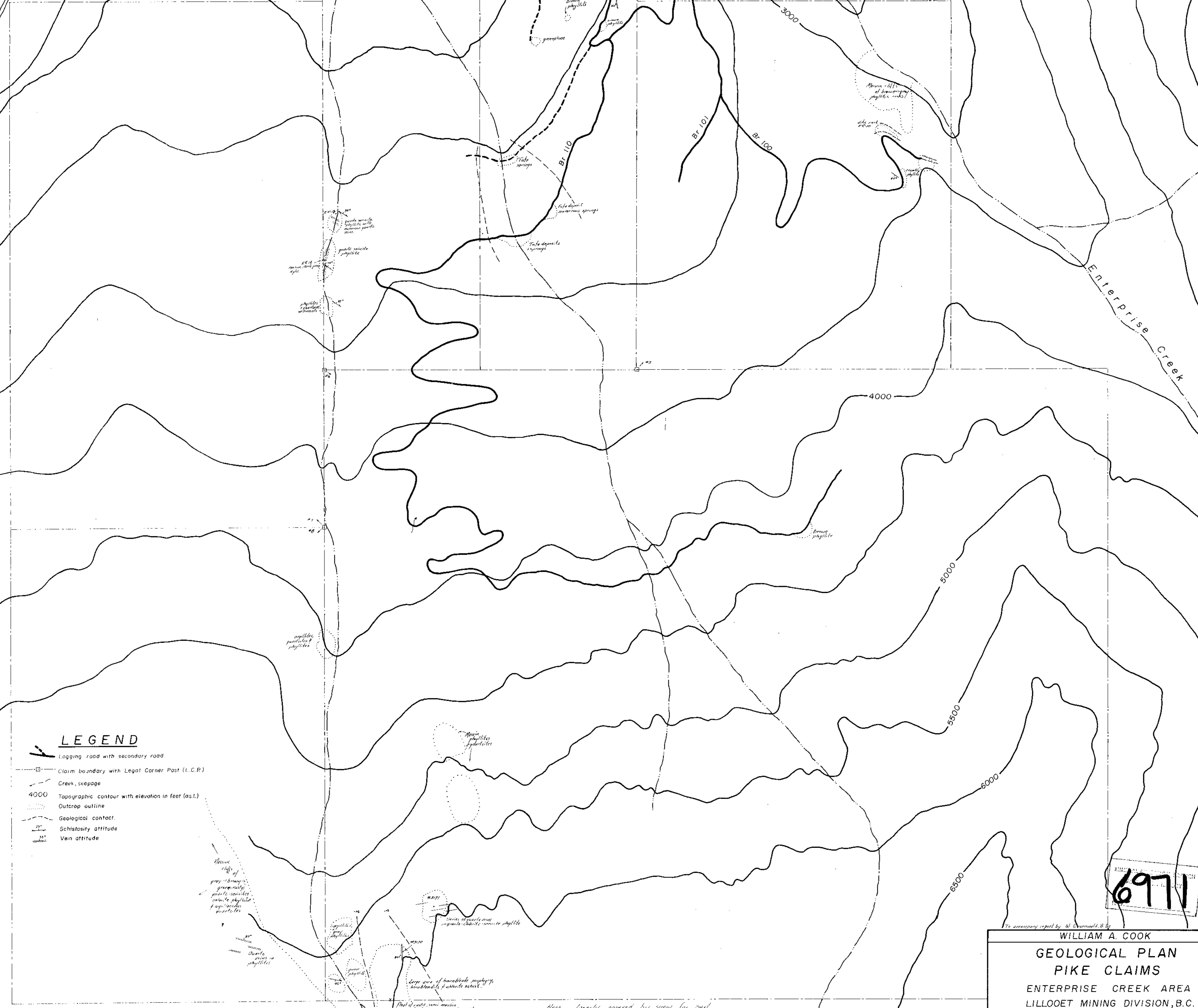
TECH WORK BY: KERR, DAWSON & ASSOC. LTD.	SCALE: 1" = 5000'
DRAWN BY: # 5	DATE: JUNE, 1978
APPROVED BY: J. M. KERR, P. ENG.	DRAWING NO: 171-3

6971



CAYOOSH CREEK

Enterprise Creek



LEGEND

- Logging road with secondary road
- Claim boundary with Legal Corner Post (L.C.P.)
- Creek, seepage
- 4000 Topographic contour with elevation in feet (a.s.l.)
- Outcrop outline
- Geological contact
- Schistosity attitude
- Vein attitude

6971

To accompany report by W. A. Cook, B.C.

WILLIAM A. COOK
GEOLOGICAL PLAN
PIKE CLAIMS
 ENTERPRISE CREEK AREA
 LILLOOET MINING DIVISION, B.C.

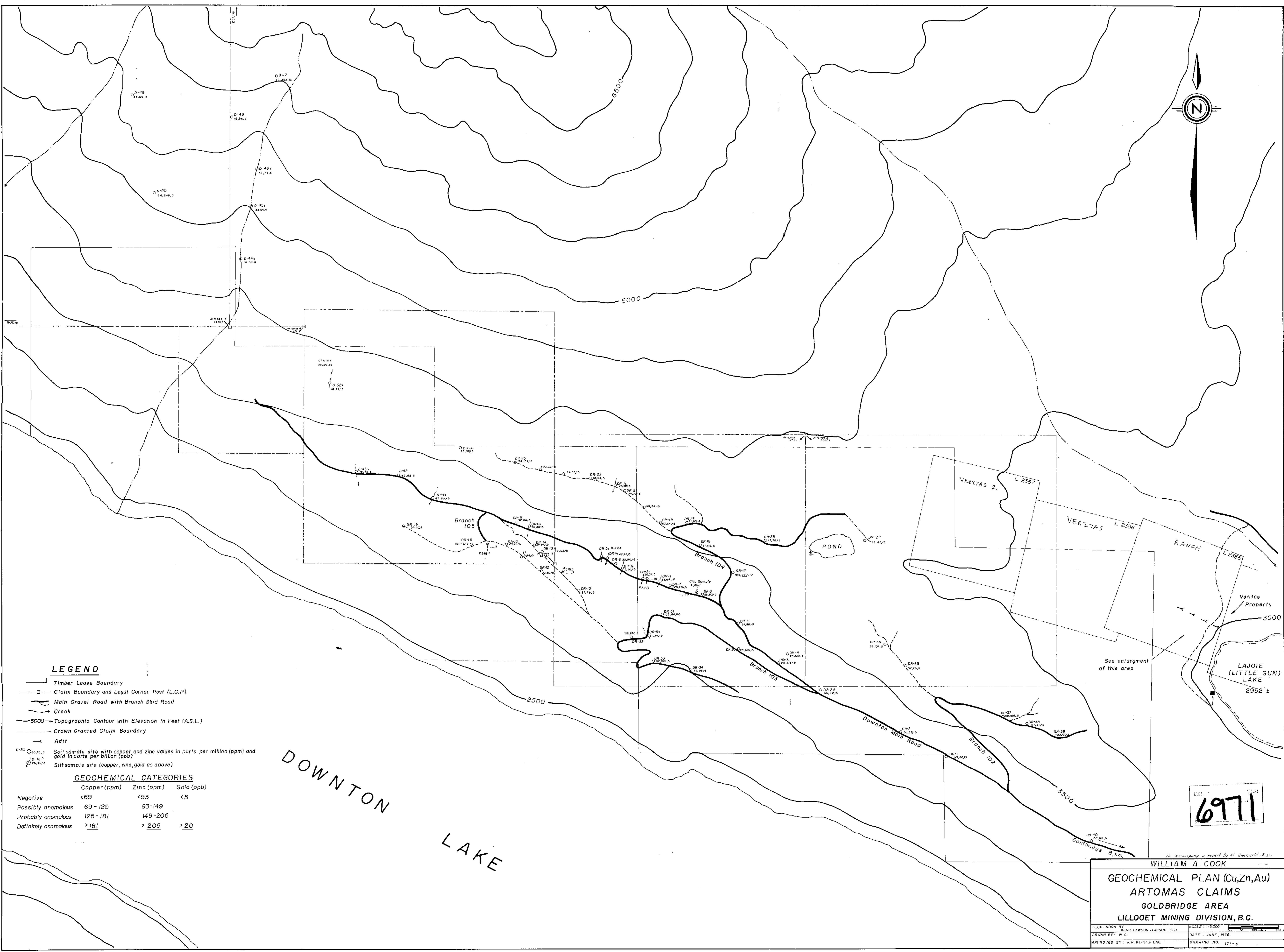
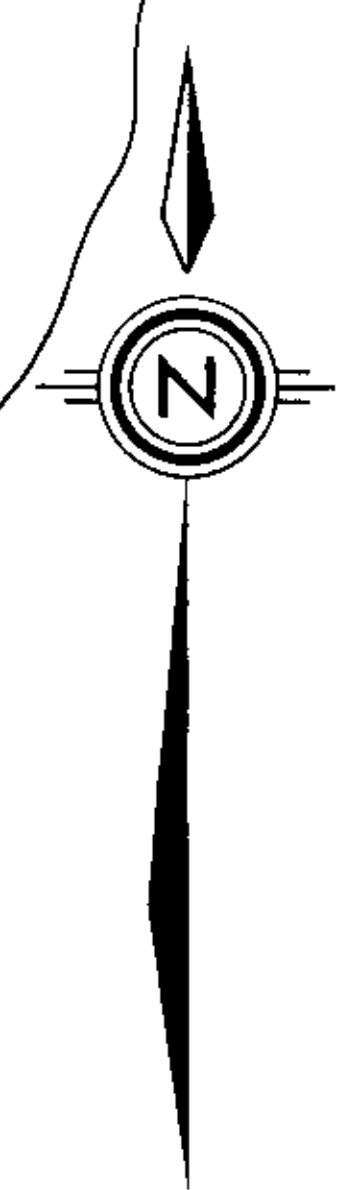
TECH. WORK BY: KERR, DAWSON & ASSOC. LTD. SCALE: 1:5000
 DRAWN BY: W. G. DATE: JUNE, 1978
 APPROVED BY: J. R. KERR, P. ENG. DRAWING NO. 171-4

This large area covered by veins for part of all year round

Bl. 100
Bl. 101
Bl. 102
phyllite
schistosity
vein attitude

Bl. 100
Bl. 101
Bl. 102
phyllite
schistosity
vein attitude

Bl. 100
Bl. 101
Bl. 102
phyllite
schistosity
vein attitude



LEGEND

- Timber Lease Boundary
- - - Claim Boundary and Legal Corner Post (L.C.P.)
- Main Gravel Road with Branch Skid Road
- Creek
- 5000 Topographic Contour with Elevation in Feet (A.S.L.)
- - - Crown Granted Claim Boundary
- Adit
- _{60,70,5} Soil sample site with copper and zinc values in parts per million (ppm) and gold in parts per billion (ppb)
- _{25,30,5} Silt sample site (copper, zinc, gold as above)

GEOCHEMICAL CATEGORIES

	Copper (ppm)	Zinc (ppm)	Gold (ppb)
Negative	<69	<93	<5
Possibly anomalous	69-125	93-149	
Probably anomalous	125-181	149-205	
Definitely anomalous	>181	>205	>20

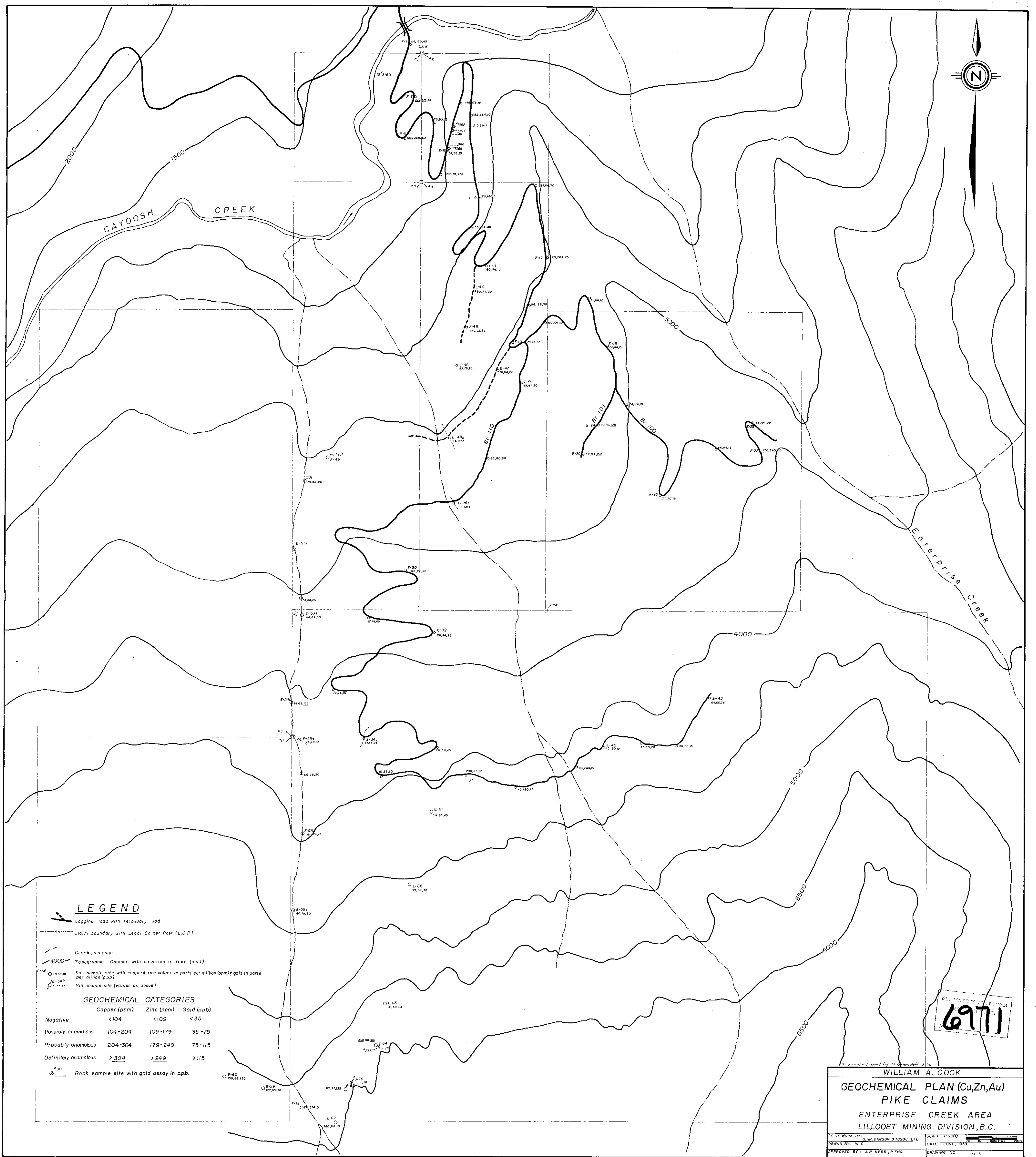
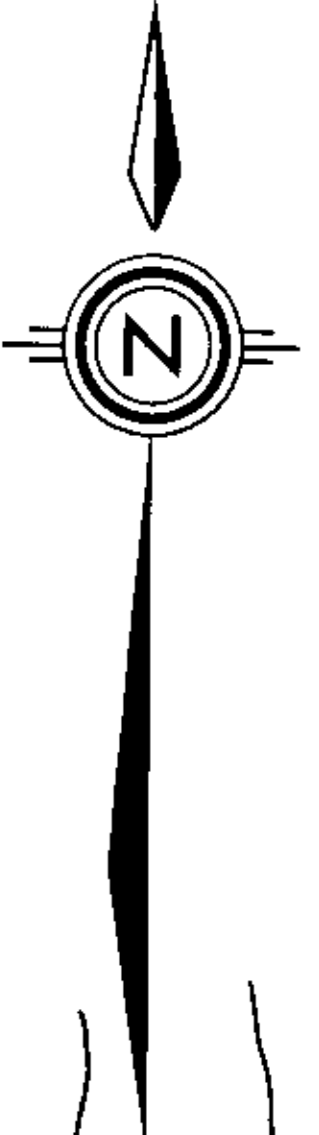
DOWNTON LAKE

69711

WILLIAM A. COOK
 GEOCHEMICAL PLAN (Cu,Zn,Au)
 ARTOMAS CLAIMS
 GOLDBRIDGE AREA
 LILLOOET MINING DIVISION, B.C.

TECH. WORK BY: KENNEDY, DAWSON & ASSOC. LTD.
 DRAWN BY: W.G.
 APPROVED BY: W.H. KERR, P. ENG.

SCALE: 1:5,000
 DATE: JUNE, 1978
 DRAWING NO: 171-5



LEGEND

- Logging road with secondary road
- Claim boundary with Legal Corner Post (L.C.P.)
- Creek, seepage
- Topographic Contour with elevation in feet (a.s.l.)
- Soil sample site with copper & zinc values in parts per million (ppm) & gold in parts per billion (ppb)
- Silt sample site (values as above)

GEOCHEMICAL CATEGORIES

	Copper (ppm)	Zinc (ppm)	Gold (ppb)
Negative	<104	<109	<35
Possibly anomalous	104-204	109-179	35-75
Probably anomalous	204-304	179-249	75-115
Definitely anomalous	>304	>249	>115

Rock sample site with gold assay in ppb.

69771

WILLIAM A. COOK
GEOCHEMICAL PLAN (Cu,Zn,Au)
PIKE CLAIMS
 ENTERPRISE CREEK AREA
 LILLOET MINING DIVISION, B.C.

TECH. WORK BY: KERR, DAWSON & ASSOC. LTD. SCALE: 1:5,000
 DRAWN BY: W.G. DATE: JUNE, 1978
 APPROVED BY: J.H. KERR, P. ENG. DRAWING NO: 171-6