

KENNCO EXPLORATIONS, (WESTERN) LIMITED

REPORT ON ROCK GEOCHEMICAL SURVEY

KASHU NO. 1 GROUP

92L/3W

Situated approx. 8 miles NE of Kyuquot, Van. Isl

Alberni Mining Division, British Columbia

September 14 to September 17, 1972

By: S.C. Gower

C.S. Ney, P. Eng.

Aug. 1, 1973

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KENNCO EXPLORATIONS, (WESTERN) LIMITED

REPORT

ON

ROCK GEOCHEMICAL SURVEY

KASHU GROUP NO. 1

(Kashu No. 1, 2, 11-13, 15-20, 23-26, 36-39, 45-47,
55-58, 61, 63-70, 72, 83, 85, 87, 89)

Situated approx. 8 miles N.E. of Kyuquot, Vancouver Island,
Alberni Mining Division,
British Columbia

50°07'N 127°20'W

Work Done: September 14-17, 1972

By

S. C. Gower
C.S. Ney, P. Eng.

August-1, 1973

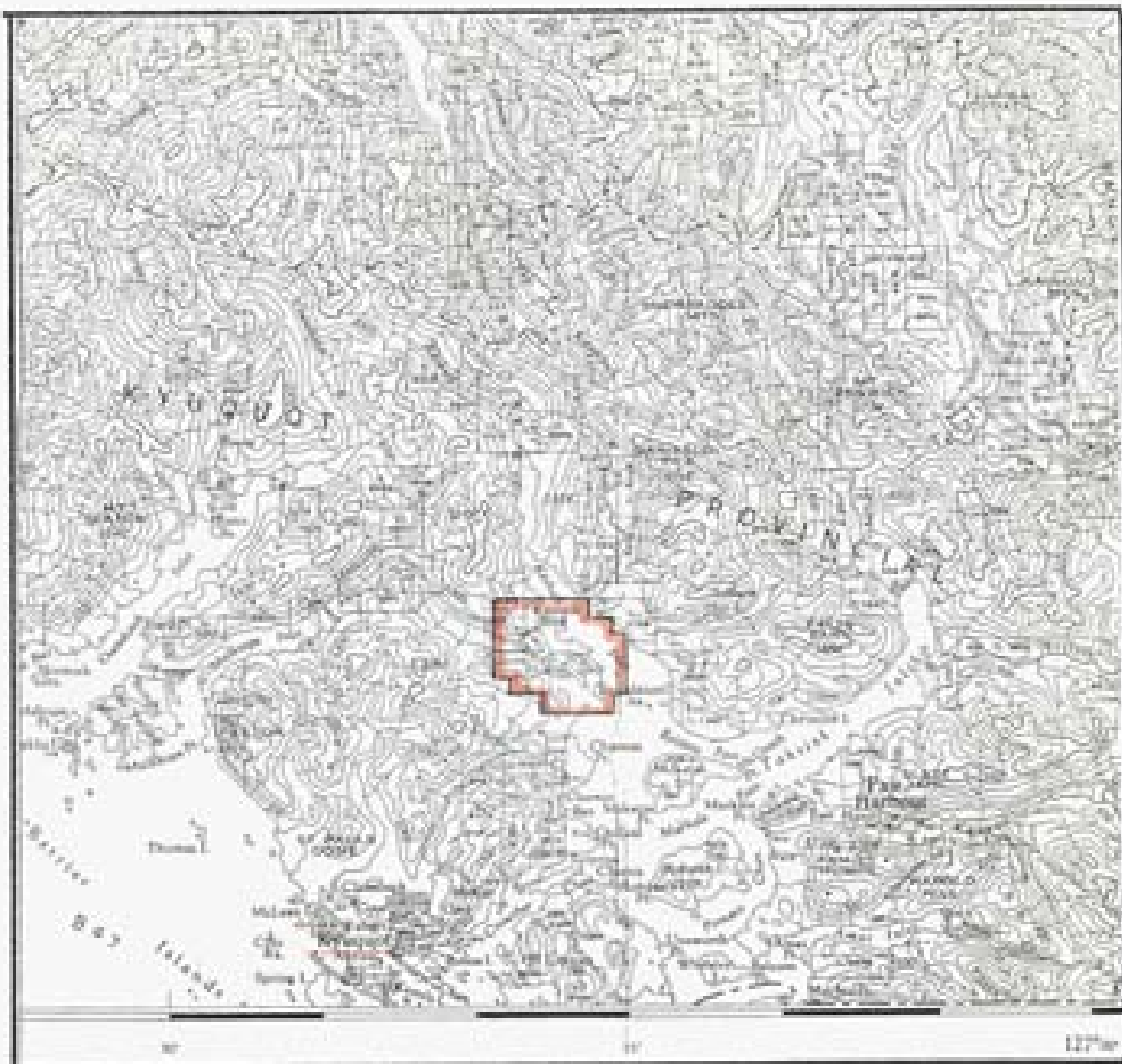
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4539 MAP.....

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KENNCO EXPLORATIONS (WESTERN) LIMITED

KASHU CLAIMS

Situated Approx. 8 Miles NE of Kyusut, Vancouver
 Alberni M.D., B. C.

Department of
 Mines and Petroleum Resources

ASSESSMENT REPORT
 NO. 4539 MAP #1

50° 07' N, 127° 20' W

Scale: 1:250,000

LOCATION MAP

INTRODUCTION

The mineral property discussed in this report is situated 50° 07' N, 127° 20' W about 8 miles northeast of the fishing village of Kyuquot on the west coast of Vancouver Island. The exploration work on these claims consisted of a rock geochemical survey & geological mapping.

The field work was conducted by S.C. Gower, B. Sc., geologist, and D.A. Yeager, assistant geologist.

The work was done under the overall supervision of C.S. Ney, P. Eng.

The Kashu Claims were located in June 1972 to protect the possibility that disseminated copper deposits might be zonally related to old showings of pyrophyllite. A report on these showings by C.H. Clapp (Sum. Rept. GSC 1913) indicated a possible zonal change from pyrophyllite to quartz sericite alteration, and the presence of small amounts of chalcopyrite.

LOCATION AND ACCESS

The property is situated at Lat. $50^{\circ} 07'$, Longitude $127^{\circ} 20'$ about 8 miles N.E. of Kyuquot, B.C. The survey area is located about sealevel, primarily along the shoreline where outcrop is prominent.

Access to the property is by road to Fair Harbour and then by Canova inflatable seacraft to Easy Inlet a distance of 20 miles. The terrain is moderately rugged with a high percentage of rock exposure in the elevation range of up to 1400 feet a.s.l.

ROCK GEOCHEMICAL SURVEY

ROCK SURVEY FIELD WORK

Sample Site Control

Sample site control was established by utilizing a map on the scale 1" = 1600' enlarged from a topographic map and tying in station locations to known topographical features. Surveyor's flagging was used to mark the stations. This gave good control of sample site, with minimum expenditures.

All work was performed on Kashu No's 12, 13, 14, 15, 16, 18, 36, 39, 45, 47, 56, 65, 70, 72, 89.

Rock Sample Location

The samples were collected at varying intervals from bedrock along the shoreline. Sample chips about 1" - 2" were taken with a standard prospector's hammer. About 2-3 pounds of these chips were collected from each sample site. The sample site and number were then plotted on a field map, and a note made if the sample had been obtained other than by the standard procedure.

Packaging

The samples were placed in 6" X 10" cloth sample bags constructed especially for rock samples. The sample number was written on both sides of the bag and then sealed by string.

Sample Preparation

The samples were shipped to Kennco Explorations, (Western) Limited's laboratory in North Vancouver. Particular care was taken to avoid contamination in the preparation of these samples as the analyses were to be done in parts per million. The sample was primary crushed to 1/4" mesh, secondary crushed to minus 10 mesh; dried, and then pulverized to minus 100 mesh. The pulverizer was flushed with 'clean' rock after each sample. The average analysis of the cleaning rock is as follows:

7 ppm Cu
0 ppm Mo
30 ppm Zn
4 ppm Pb
0.3 ppm Ag
0.00 ppm Au
10 ppm Co
10 ppm Ni

ANALYSIS

The samples were analysed in the North Vancouver laboratory of Kennco Explorations (Western) Ltd., under the supervision of H. Goddard, Laboratory Manager. Total extraction from a weighed sample is achieved by digestion with nitric acid and 70% perchloric acid. Determination of the Cu, ~~Mn~~, Zn, Pb, Ag, Co, Ni, content is made by aspiration in a Techtron AA5 Atomic Absorption Spectrophotometer. To determine the Au content, a weighed sample is digested in aqua regia, filtered, and the gold removed by solvent-solvent extraction in an organic solvent, MIBK (methyl-isobutyl-ketone). This is aspirated in the Techtron AA5.

Mu

INTERPRETATION

The purpose of the rock geochemical survey was to examine the trace metal content of the various rock units in the area to discover if metal zoning was present which would indicate a bulk copper system at depth. Analyses of all elements are, however, near background for the major rock units tested two anomalous samples KX 27512, 50 ppm Mo 2nd KX 27505 1575 ppm Cu 2.2 ppm Ag contained quartz veinlets mineralized with visible sulphides and are not indicative of a larger mineralized system.

Results of the geochemical survey indicate no further work should be conducted on the property.

GEOLOGY

Within the claim area the rocks examined are basic to intermediate tuffs and flows of the Bonanza Group. The flows are predominately augite and feldspar porphyry. Bedded pyroclastics outcrop which show the structure is a simple homocline which dips southerly at 20° - 50°. Mudstones and andesitic tuffs of the Bonanza Group outcrop in road cuts on the west side of Jansen Lake. Massive siliceous rock on the west side of Easy Inlet is believed to be replacement silicification in acid tuffs. Intrusive rocks observed were two small feldspar-rich andesite dykes and a coarse-grained pinkish granite which outcrops on the logging road north of Jansen Lake.

Generally the country rock exhibits little alteration, veining or fracturing although quartz and/or epidote veinlets were identified occasionally. The sulphide content is below 1% except in the five specific alteration areas below.

Montieth Bay:

Several hundred feet inshore from an old docksite pyrophyllite was mined from a shallow excavation. The rock is a massive soft pinkish breccia which contains up to 5% pyrite. The only structure evident is minor fracturing at 080° < 60° NW. Alteration minerals present are pyrophyllite, sericite, quartz and talc. Total pyrophyllite content is

less than 30% (Clapp 1913 Summ. Report, G.S.C.). To the west along the beach for 100 yards the rocks are altered chloritic, breccia, amygdular basalt and a feldspar porphyry.

2) On the northwest side of Montieth Bay there is a prominent bluff of grey siliceous rock criss-crossed with tiny quartz veinlets in a complex reticulate pattern suggestive of a geyserite deposit (C.S. Ney 1972). A fault contact is suggested between the bluff and the unaltered basaltic volcanics to the northeast.

3) On the north end of the peninsula andesitic volcanics appear to become more intensively altered going ashore. These rocks consist of quartz amygdules in a fine-grained matrix of chlorite. Visible chalcopyrite was observed in an outcrop 20' X 10' along the shore, from which a chip sample across 1 foot of the best mineralized material assayed 0.3% Cu.

4) Southwest of Easy Inlet the rocks are strongly altered and pyritized along the shore for 500 feet. Alteration appears to be predominately quartz-sericite-talc. An old adit and wharf indicate some rock was excavated but no specific material of value was recognized. Prominent fracture structures were at $110^{\circ} \pm 45^{\circ}$ E.

5) Along the logging road on the west side of Easy Inlet continuous slightly siliceous andesite outcrops mineralized with pyrite disseminated and as fracture fillings. A conspicuous amygdaloidal member occurs in the middle of the section and there are short intervals of bedded siliceous tuffs.

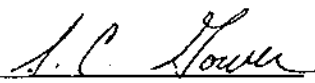
CONCLUSIONS


The alteration at localities 1, 2 and 3 has a generally massive character without any stockwork veins, close fracturing, or intrusive dykes. At locality 2 the network of chalcedonic quartz veinlets suggests a siliceous sinter or geyserite. It appears likely that these alterations are a near-surface phenomena related to hot spring of sulfataric activity in basic rocks. There is a strong suggestion of two WNW trending faultlines through the property. Locality 4 appears to be better structurally prepared and richer in sulphides than most of the rock, although geochemically the rock is little different from that previously described. Locality 5 possesses a hard siliceous alteration weakly developed along with moderate fracturing, but the sulphides appear to be predominately pyrite.

There appears to be little chance that the pyrophyllite alteration is directly peripheral to a porphyry copper deposit similar to the Island Copper orebody. It could represent a sulfataric stage, far

removed from the site of mineralization. In this case
the probability of finding a valuable deposit in the area
is much lower.

Vancouver, B.C.
August 1, 1973


S.C. Gower


C.S. Ney, P.Eng.

DISTRIBUTION OF WORK

<u>CLAIM NO.</u>	<u>RECORD NO.</u>	<u>RECORD DATE</u>	<u>YEARS OF WORK TO BE APPLIED</u>
Kashu #17	19201	July 10/72	1
18	19202	July 10/72	1
38	19071	July 5/72	1
39	19072	July 55/72	1
55	19221	July 10/72	1
56	19222	July 10/72	1

STATEMENT OF COSTS INCURRED

Geochemical Rock Sampling

Geology

Survey Details:

Time: 4 days - Sept. 14-17, 1972

Samplers: S.C. Gower, D.A. Yeager

No. of Samples: 23

Survey Costs:

<u>Wages & Board:</u> S.C. Gower - \$35.00 + 15.00	
= 50.00/day X 4 days	\$200.00
D.A. Yeager - \$25.00 + 15.00	
= 40.00/day X 4 days	\$160.00
<u>Boat & Motor Rental:</u> \$10.00/day X 4 days	40.00

Analysis 8 Elements:

Sample preparation	0.75/sample	
Analysis	<u>6.00/sample</u>	
	6.75/sample X 23 samples	155.25

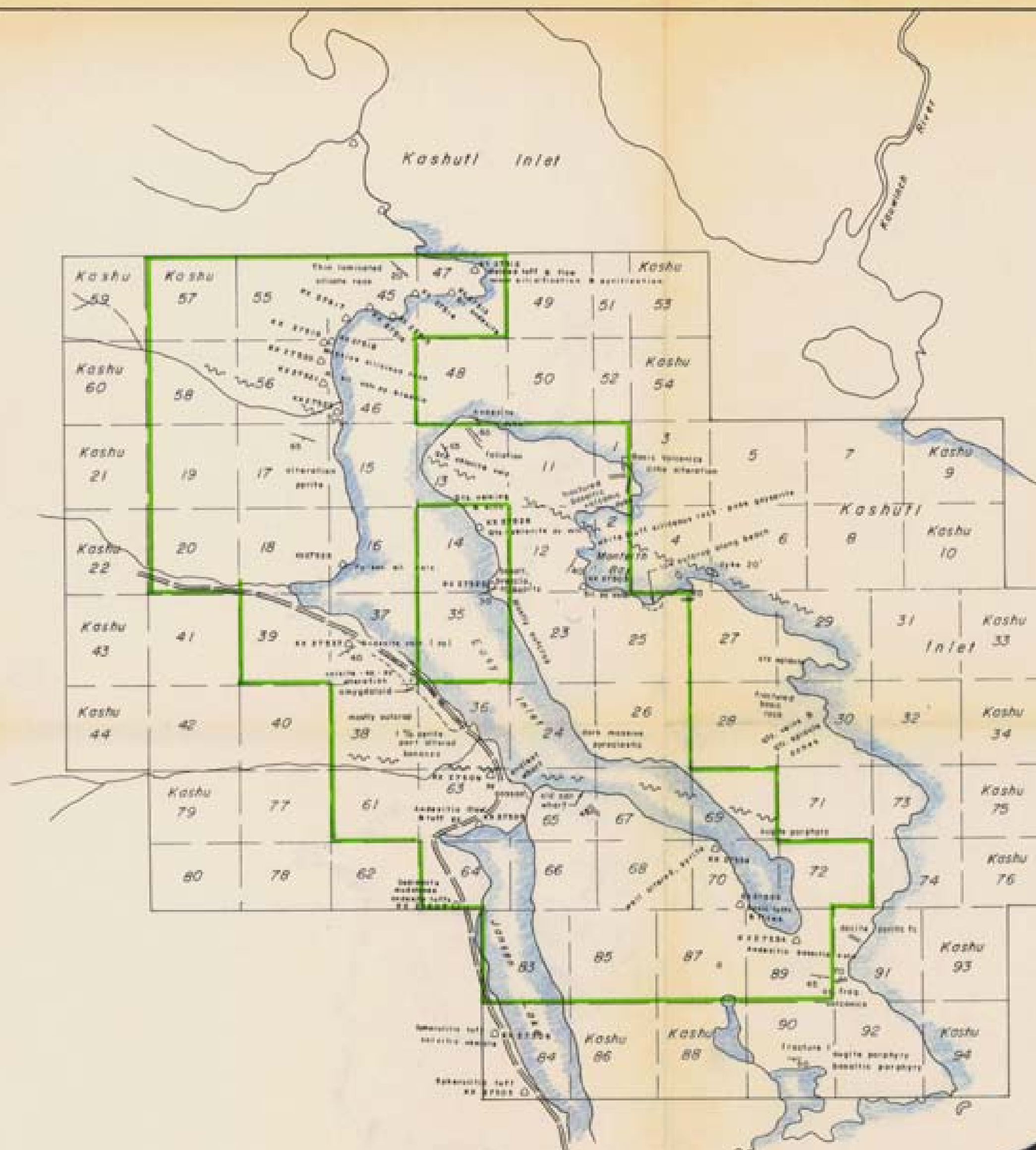
Interpretation and Reporting:

1 day X 56.50 (includes support)	56.50
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Drafting & Typing:

50.00

\$661.75



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4539 MAP #2

Rock Sample (outcrop)

To accompany Assessment Report by C. E. Roy P. Eng.,
on Kashu Claim No. 1 Group, 8 miles N.E. of Kaslo,
Fishing Village, on the west coast of Vancouver Island,
B.C., B.C. - Dated June 28, 1973

4539
M2

Sample No.	No	Cu	Zn	Pb	Ag	Au	Ni	Co
KX27503	3	26	13	16	.6	.01	11	14
05	1	1575	80	8	2.2	.01	72	28
06	1	26	72	7	.6	.01	55	30
07	1	22	47	5	.3	.01	7	5
08	1	13	50	6	.3	.01	9	3
09	1	20	48	6	.2	.01	6	2
KX27512	50	15	47	5	.3	.01	11	5
13	2	13	14	9	2.4	.01	8	8
14	2	13	50	12	.4	.01	9	9
15	2	20	70	4	.3	.01	13	7
16	1	50	130	8	.6	.01	27	26
17	1	10	45	4	.3	.01	8	8
KX27518	Sample missing							

Sample No.	No	Cu	Zn	Pb	Ag	Au	Ni	Co
KX27519	1	8	9	5	.2	.01	6	3
20	1	15	19	8	.4	.01	10	6
21	1	35	105	12	.6	.01	29	25
22	1	16	52	4	.3	.01	11	10
23	1	11	16	5	.5	.01	8	3
KX27528	1	68	70	12	.9	.01	25	30
29	1	20	2	3	.3	.01	17	9
KX27534	1	92	44	11	.9	.01	81	38
35	1	36	160	8	.8	.01	14	32
36	1	10	29	2	.3	.01	14	10
37	1	31	68	11	.7	.01	33	28

Sample No.	No	Cu	Zn	Pb	Ag	Au	Ni	Co
38	1	15	15	5	.2	.01	6	3
39	1	22	47	5	.3	.01	7	5
40	1	13	50	6	.3	.01	9	3
41	1	20	48	6	.2	.01	6	2
42	1	15	47	5	.3	.01	11	5
43	1	13	14	9	2.4	.01	8	8
44	1	13	50	12	.4	.01	9	9
45	1	20	70	4	.3	.01	13	7
46	1	50	130	8	.6	.01	27	26
47	1	10	45	4	.3	.01	8	8

Scale 1" = 1600'
1:1600

Charles King P. Eng.