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REPORT ON
THE CAM CLAIM GROUP
STIKINE RIVER AREA, B.C.

FOR

GAYLORD MINES LIMITED
VANCOUVER, BRITISH COLUMBIA

BY

B.D. BRETT
UNDER THE SUPERVISION OF P.E. WALCOTT
EAGLE GEOPHYSICS LIMITED
VANCOUVER, BRITISH COLUMBIA

SEPTEMBER 1968

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INTRODUCTION AND LOCATION

In the period August 4th to 9th, 1968, a reconnaissance geological survey was made of the CAM group of claims, at the junction of the Porcupine and Stikine Rivers, northwestern British Columbia. The group comprises the claims CAM and CAM numbers 1 to 11, recorded as numbers M24583 to M24594 respectively. The claims are located at latitude $57^{\circ} 03'$ and longitude $131^{\circ} 45'$.

Geological survey work was under the direction of B.D. Brett, M.Sc., geologist with the assistance of A. Caldwell and R. Davie of Vancouver, British Columbia.

Reconnaissance mapping at a scale at 1,000 feet equals 1 inch was accomplished of claims CAM 4 to 11 by compass and pacer traverses at intervals of approximately 1,000 feet.

Trenching of a copper occurrence in CAM 8, was done by Cobra drill and blasting to expose the nature of mineralization.

ACCESS

Access to the general Stikine - Porcupine River Area may be accomplished by float plane to the Stikine River from Prince Rupert or by river boat from Wrangell, Alaska. Airplane landings are difficult on the Stikine River, and the nearest river landing requires a camp a little over one mile from the claim group.

Access in the area is difficult, mainly due to heavy surface vegetation of Devil's Club, and progress is hampered markedly. Much time was spent on relatively short traverses in geological mapping due to this heavy ground cover.

GEOLOGY

Rock outcropping in the general area is sporadic and mainly found in a narrow strip along the Stikine River and one broad linear ridge crossing the CAM claim group.

Exposed rocks consist primarily of Permian phyllitic quartzite and greywacke in the northern half of the claim group. In places these metamorphic rocks contain moderate disseminated fine pyrite and pyrrhotite. Minor E-W faulting was noted in a few places with much carbonatization along the fault zones. Common small granodiorite dykes were also noted in a few localities.

In the southern half of the claim area granitic rocks comprising mainly coarse pinkish quartz monzonite and grey granodiorite occur. These maintain an intrusive contact with the phyllitic quartzite rocks.

Along the phyllite-granite contact rusty zones occur, mainly within the granite, but also in places within the phyllitic quartzite. Green malachite staining has been found sporadically within these rusty contact zones. The rusty zones contain up to ten percent pyrite and rarely disseminated chalcopyrite and chalcocite. At the most promising of these rusty zones, assessment trenching was accomplished to fully expose fresh mineralization.

TRENCHING

Three shallow surface trenches, planned to expose fresh rock surfaces in the area of a stained rust zone in quartz monzonite of the northeastern corner of claim CAM No. 8 were opened up. The trenches were blasted after initial drilling with a rented Cobra 'plugger' drill. Trenches are approximately 6' x 3' x 3' in size.

Detailed examination of mineralization in all three trenches showed only sporadic chalcopyrite-chalcocite mineralization in altered fine quartz-monzonite. Up to ten percent disseminated pyrite was observed in the trench material.

In view of the sporadic and low tenor of copper mineralization observed, no samples were taken for analysis.

CONCLUSIONS AND RECOMMENDATIONS

Low copper mineralization occurs sporadically in a zone associated with a north north-east trending granite-phyllite contact. Presently known occurrences are of too low a tenor in copper to be of further economic interest.

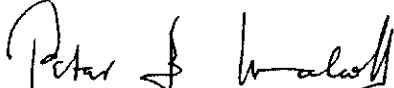
In view of the difficulties in access to the CAM group of claims, only a rough reconnaissance geological survey could be accomplished. The area has not been completely assessed.


The presence of copper mineralization along a favourable granite-phyllite contact, located in a known well-mineralized copper area, is indicative of a promising claim group in which to carry out more detailed geological and geophysical survey.

It is recommended that a detailed prospecting programme be initiated in the summer of 1969 to cover the entire CAM group of claims. It is believed that a period of two to three weeks work is necessary to accomplish.

It is further recommended that a boat be used to establish a camp on the Porcupine River immediately south of the claim group.

Respectfully submitted,
EAGLE GEOPHYSICS LIMITED,


Peter E. Walcott, P.Eng.,
Geophysicist.


for B.D. Brett, M.Sc.
Geologist

Vancouver, B.C.

September 1968

(i)

COST OF SURVEY

The following costs were encountered during the survey:

Air Transportation	(Prince Rupert - Porcupine River by Trans Provincial Air Carriers Ltd.)	\$ 635.45
Air Fare	(Whitehorse - Prince Rupert Whitehorse - B.D. Brett)	\$ 94.00
Air Fare	(Vancouver - Prince Rupert Vancouver - A. Caldwell - R. Davie)	\$ 180.00
Rental	Copco Drill August	\$ 50.00
Expense Accounts	B.D. Brett	\$ 52.90
Expense Accounts	A. Caldwell	\$ 92.42
Report Writing and Preparation		\$ 120.00
<u>Wages</u>		
B.D. Brett	Consulting Geologist from Quatsino 9 days @ \$100.00 per day	\$ 900.00
A. Caldwell	7 days @ \$ 30.00 per day	\$ 210.00
R. Davie	7 days @ \$ 25.00 per day	\$ 175.00
Total Cost of Survey		<u><u>\$2,509.77</u></u>

REFERENCES

1. Claim Map 53-M-2
2. Map 9 - 1957, Geological Survey of Canada


PERSONNEL EMPLOYED ON SURVEY

<u>NAME</u>	<u>OCCUPATION</u>	<u>ADDRESS</u>	<u>DATES</u>
B.D. Brett	Geologist	Eagle Geophysics Limited 815-736 Granville Vancouver, B.C.	August 3rd to 11th inclusive 1968
P.E. Walcott	Geophysicist	"	August 8th, 1968
A. Caldwell	Field Supervisor	Quatsino Copper- Gold Mines Ltd. 326-736 Granville Vancouver, B.C.	August 4th to 10th inclusive 1968
R. Davie	Assistant Supervisor	Quatsino Copper- Gold Mines Ltd. 326-736 Granville Vancouver, B.C.	August 4th to 10th inclusive 1968
Miss S. Main	Typing	"	August 8th, 1968

CERTIFICATION

I, Peter E. Walcott, of the Municipality of Coquitlam, British Columbia, hereby certify that

1. I am a Graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics option.
2. I have been practising my profession for the last six years.
3. I am a member of the Association of Professional Engineers of Ontario and the Yukon Territory.
4. I hold no interest, direct or indirect in the securities or properties of Gaylord Mines Limited, nor do I expect to receive any.


Peter E. Walcott, P.Eng.

SEPTEMBER 1968

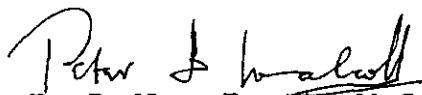
CERTIFICATION

I, B. Dudley Brett of the Municipality of Scarborough, Ontario, hereby certify that

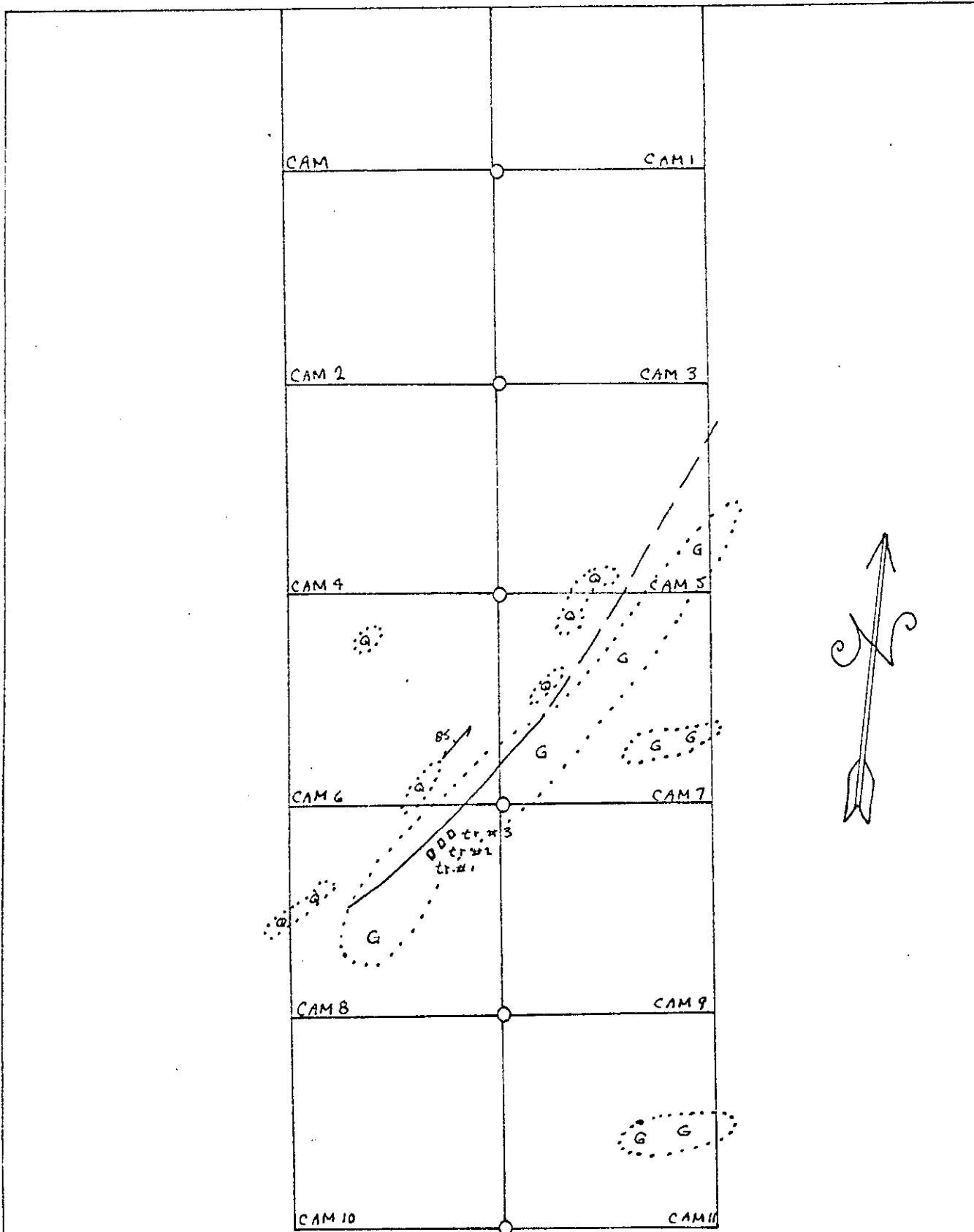
1. I am a Graduate of the University of Manitoba in 1957 with a B.Sc. honours degree in geology.
2. I am a Graduate of McGill University in 1960 with a M.Sc. degree in geology and have undertaken Ph.D. study.
3. I have been actively engaged in the mining industry since 1953.
4. I was employed for the summer seasons 1952 to 1960, the last four as a qualified geologist, by the Manitoba Mines Branch, Eldorado Mining and Refining Ltd., Stratmat Ltd., Cyprus Exploration Corp. Ltd., International Nickel Co. Ltd. and Tache Lake Mines Ltd. respectively in the exploration field.
5. I was employed from 1961 to 1966 by C.C. Huston and Associates as a field engineer, during which time I undertook numerous property examinations and exploration surveys throughout North America.
6. I am presently employed by the North York Board of Education, Ontario, as a teacher and have been since 1966.

(vi)

7. I hold no interest, direct or indirect, in the securities or properties of Gaylord Mines Limited, nor do I expect to receive any.


for B. Dudley Brett, M.Sc.

SEPTEMBER 1968



LEGEND

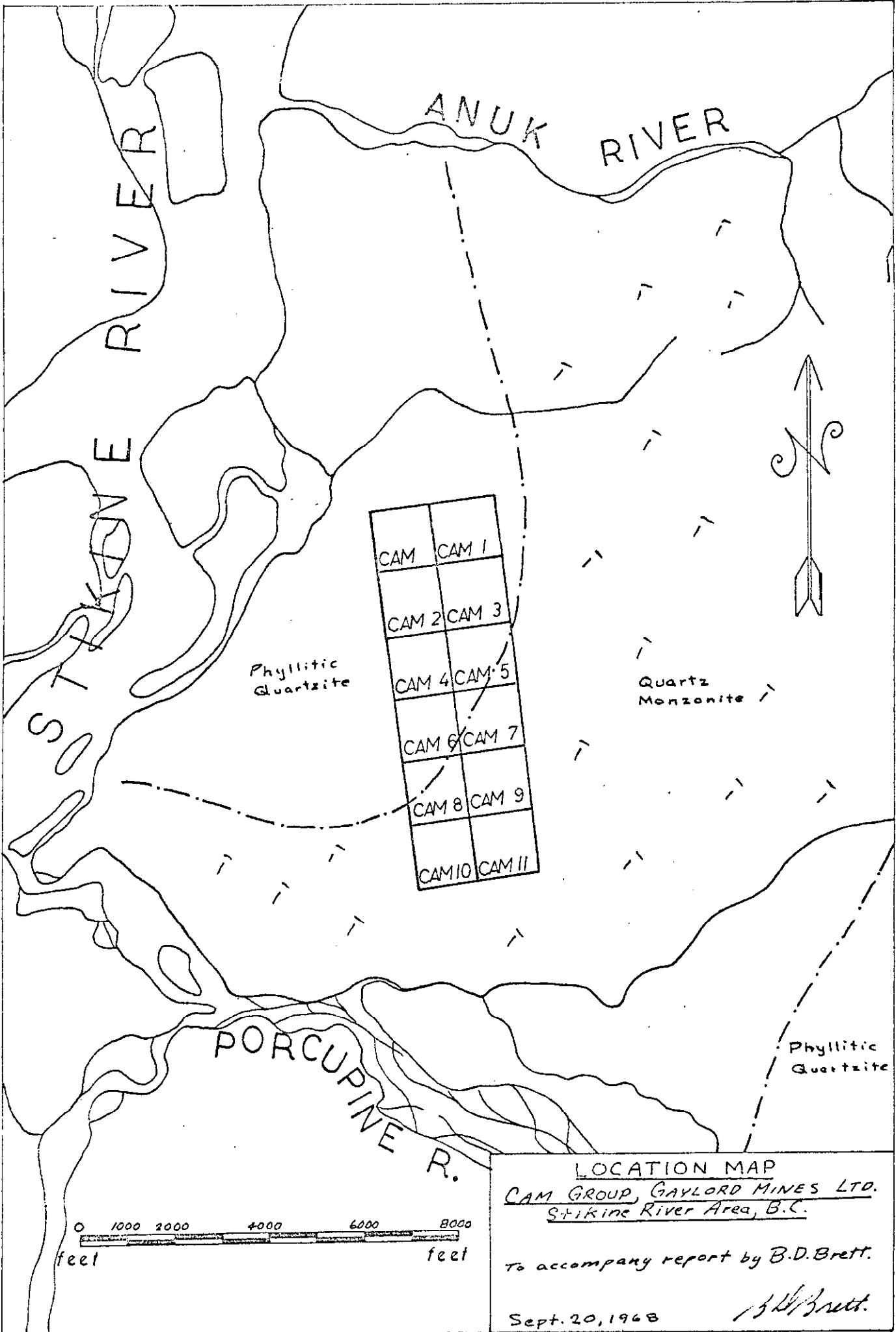
- claim post
- ⊙ outcrop
-) Geologic contact, defined and indefinite
- G Quartz monzonite
- Q Phyllitic quartzite
- ▣ trench

GEOLOGICAL PLAN
CAM GROUP, GAYLORD MINES LTD.,
STIKINE RIVER AREA, B.C.

to accompany report by B. D. Brett

Sept. 20, 1968

B. D. Brett



LOCATION MAP
CAM GROUP, GAYLORD MINES LTD.
Stikine River Area, B.C.

To accompany report by B.D. Brett.

Sept. 20, 1968 *B.D. Brett.*

NOTE

SEE OPPOSITE PAGE - Geological Plan
Map.

SCALE 1" = 1,000 feet

THIS IS SHOWN ON THE TABLE OF
CONTENTS UNDER ACCOMPANYING
MAPS (b).