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STREAM GEOCHEMISTRY
OF MOUNT SEATON CLAIM GROUP
SNOW, AVALANCHE, KAREN AND NOBLE-C
MINERAL CLAIMS
OMINECA MINING DIVISION
SMITHERS, B. C.
NTE 93M 3E & 3W

PREPARED FOR

SHORT STAUN ENTERPRISES

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8716
NO.

JAMES M. LOGAN
GEOLOGIST
LOCKE B. GOLDSMITH, P. ENG.
CONSULTING ENGINEER
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CONSULTING ENGINEER
ARCTEX ENGINEERING SERVICES

SEPTEMBER 1980

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ILLUSTRATIONS

Sample Location Map ..... (in pocket)

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APPENDIX

Appendix Assay Certificates

INTRODUCTION

A regional geological mapping and prospecting program was initiated in early September, 1980 to investigate the Mount Seaton claim block. Due to abnormal weather conditions which prevailed over the property (much of which is between 5,000 and 6,000 feet elevation), the scheduled work could not be completed. After 7 days of standby, a stream sediment sampling program was undertaken over the Karen, Snow and Avalanche claims. The objective of this regional geochemical survey was to outline drainage areas containing copper/molybdenum anomalys.

The claim group consists of the Snow, Avalanche, Karen and Noble-C claims. These are located between Luno Creek and Mount Seaton, approximately 27 miles north of Smithers, B.C. in the Omineca Mining Division (Figure 1). The claim boundaries of the four claims are outlined on Figure 2.

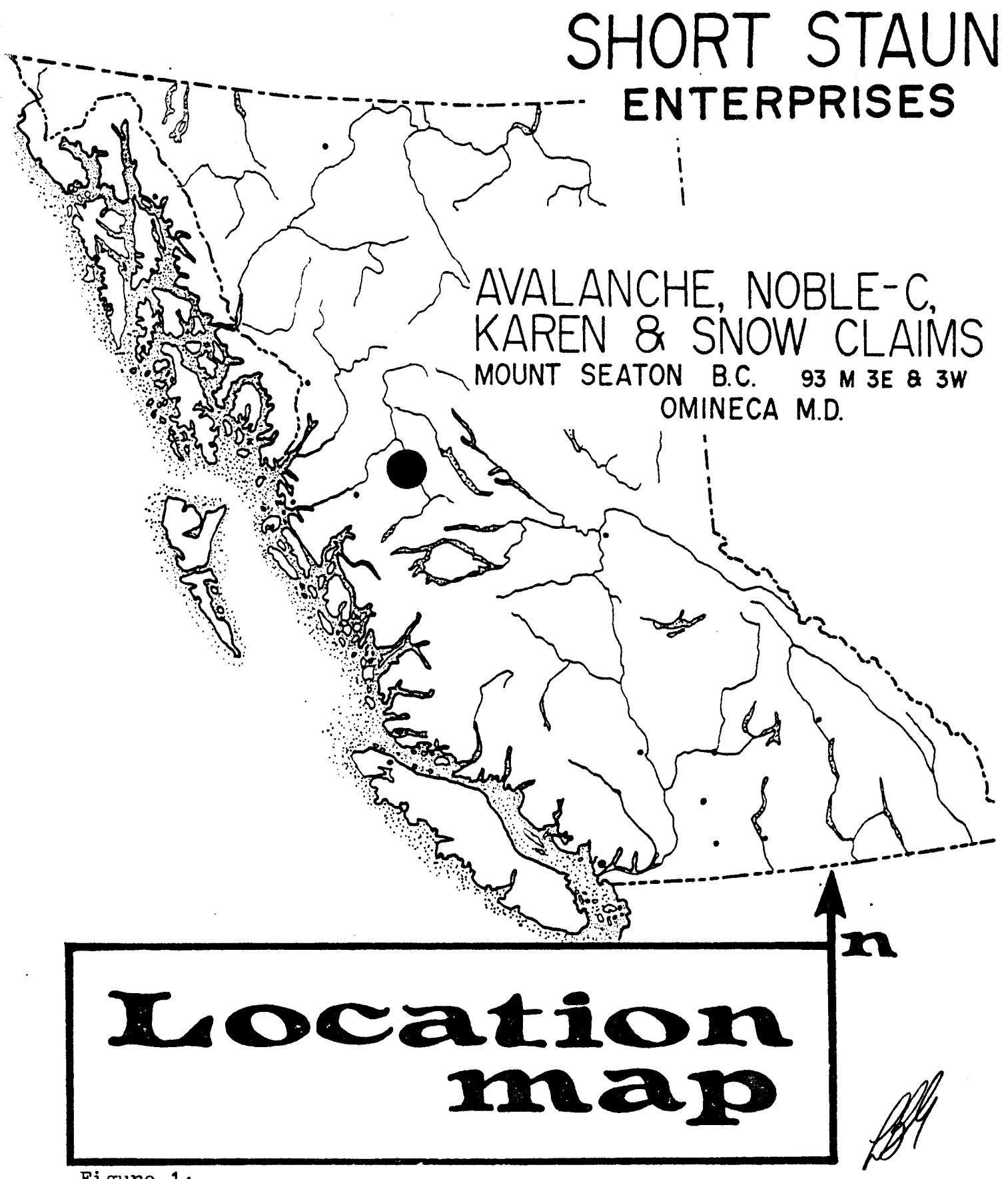


Figure 1:

ARCTEX ENGINEERING SERVICES SEPTEMBER 1980

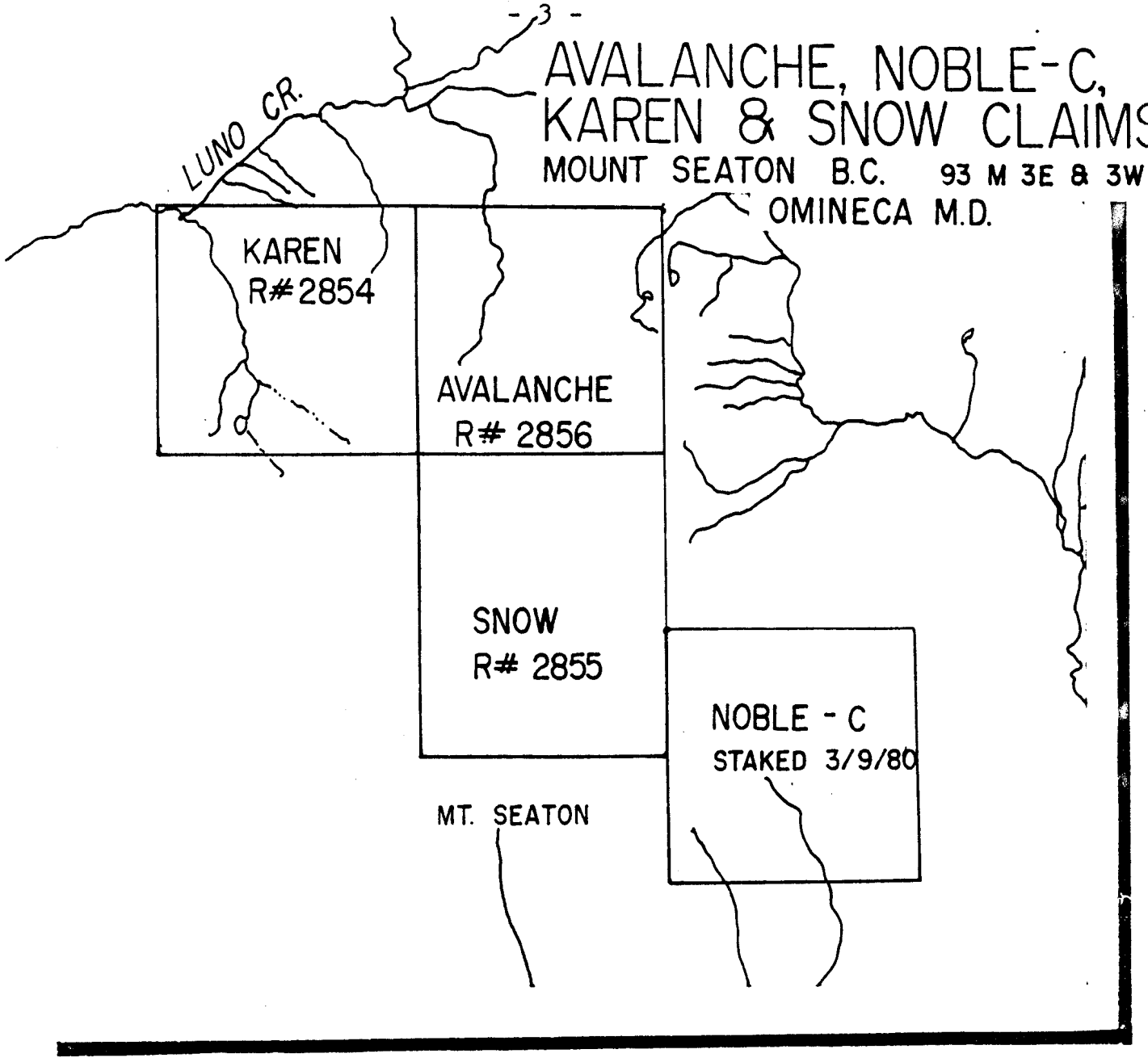
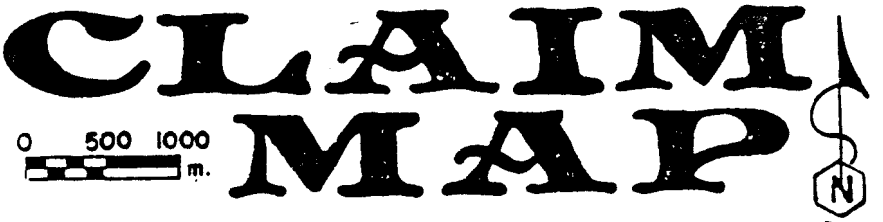


Figure 2:



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GENERAL GEOLOGY

The general geologic relationships covering the area are shown on B. C. Department of Mines and Petroleum Resources Map 69-1.

The area of the Snow and Noble-C claims is underlain by sedimentary rocks belonging to the Hazelton Group. These sediments are believed to be of Upper Jurassic to Lower Cretaceous age. The Avalanche and Karen claims are underlain predominently by granodiorite of Early Tertiary(?) age which has intruded the sedimentary group. The actual contact could not be delineated before the mapping program was terminated. Within this granodiorite stock are several known areas of copper/molybdenum porphyry mineralization.

GEOCHEMISTRY

Survey Method

Stream sediments were taken from as many major creeks as feasible to derive a representative survey of the surface drainage originating from the claim group. The survey was carried out rapidly in one day with the use of a helicopter. The samples were bagged, numbered and sent for analysis to Chemex Laboratories in Vancouver.

The sample locations are plotted on Plate 1 (in pocket).

Discussion

Each of the 23 sediment samples was analysed geochemically for concentrations of copper and molybdenum. The subsequent results (p.p.m.) are tabulated on the assay certificate found in Appendix A.

As a result of rugged topography, stream flows are rapid and in places discontinuous, with little recoverable sediments in the stream beds. Several important stream confluences could not be sampled owing to (1) inaccessibility and (2) streams disappearing in boulder/talus fields, specifically in the northern portion of the Karen claim where coverage was sparse.

The concentrations of molybdenum in general and copper in particular display two separate population parameters

(relative to abundance). The higher values are found to correlate with streams draining areas underlain by the intrusive granodiorite. The lower population values reflect streams located in catchment areas underlain by sedimentary rocks.

Samples B1-6-14 and B1-6-19 returned the most significant values of copper (440ppm and 210ppm respectively) and molybdenum (27ppm and12ppm respectively). At the time of sampling, it was noted that both samples were orangish-red in colour indicating an iron oxide coating. The scavenging effects of iron oxide could account for these anomalous values.

CONCLUSIONS

Geochemical values indicate those areas underlain by granodiorite to be the areas most likely to host copper and molybdenum mineralization, presumably a disseminated porphyritic-type similar to the reported occurrence within the Avalanche claim and on the Wolfe claims to the north (as shown on B.C. Dept. of Mines Map 69-1).

If insufficient work was carried out to hold the entire claim group in good standings, preference should be given to first, the Avalanche, the Karen and then, the Snow claim. The Noble-C claim, staked in September, can be investigated during the 1981 season.

RECOMMENDATIONS

(1) A regional geological mapping and prospecting program should be planned again to cover the Avalanche, Karen and Snow claims.

(2) The Noble-C claim is for the most part, covered by overburden and could be investigated by a geophysical survey (magnetometer).

COST ESTIMATE

Geological mapping		$ 20,000
Prospecting		10,000
Geophysics, magnetometer survey		10,000
Helicopter support		7,000
Assays, analyses		2,000
Camp supplies, travel, vehicle, room, board		5,000
Supervision, engineering		5,000
Reporting		2,000
	Sub total	$ 61,000
Contingencies, @ 10%		6,100
	TOTAL	$ 67,100

All of which is respectfully submitted

James M. Logan
Geologist

Locke B. Goldsmith, P. Eng.
Consulting Geologist

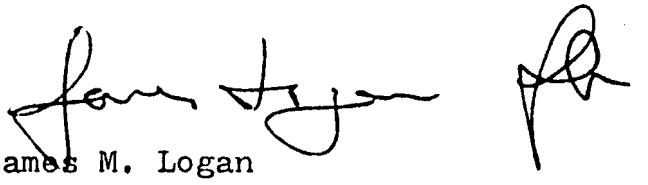
George L. Mill, P. Eng.
Consulting Engineer

Vancouver, B.C.
September, 1980

GEOLOGIST'S CERTIFICATE

1. I, James M. Logan, have a B.Sc.(Honours) in Geology from Brock University, Ontario. My address is #1 - 1133 Harwood St., Vancouver, B.C. V6E 1R9.
2. I have been engaged in mining exploration for 5 years.
3. I have co-authored the report entitled "Stream Geochemistry of Mount Seaton Claim Group Snow, Avalanche, Karen and Noble-C Mineral Claims, Omineca Mining Division, Smithers B.C.", dated September, 1980. The report is based on research and field work conducted and supervised by the author.
4. I have no ownership in the property, nor do I own shares of Short Staun Enterprises.
5. I consent to the use of this report in a prospectus or in a statement of material facts related to the raising of funds.

Respectfully submitted



Vancouver, B.C.
September, 1980

James M. Logan
Geologist

ENGINEER'S CERTIFICATE

1. I, Locke B. Goldsmith, am a Registered Professional Engineer in the Province of Ontario and a Registered Professional Geologist in the State of Oregon. My address is #301 - 1855 Balsam St., Vancouver, B.C. V6K 3M3.
2. I have a B.Sc.(Honours) degree in Geology from Michigan Technological University and have done post-graduate study in Geology at Michigan Tech., University of Nevada and the University of British Columbia. I am a graduate of the Haileybury School of Mines and am a Certified Mining Technician. I am a member of the Society of Economic Geologists, the AIME, and the Australasian Institute of Mining and Metallurgy.
3. I have been engaged in mining exploration for 22 years.
4. I have co-authored the report entitled "Stream Geochemistry of Mount Seaton Claim Group Snow, Avalanche, Karen and Noble-C Mineral Claims, Omineca Mining Division, Smithers, B.C.", dated September 1980. The report is based on research and field work conducted and supervised by the author.
5. I have no ownership in the property, nor do I own shares of Short Staun Enterprises.
6. I consent to the use of this report in a prospectus or in a statement of material facts related to the raising of funds.

Respecfully submitted

Locke B. Goldsmith

Vancouver, B.C.
September, 1980

Locke B. Goldsmith, P. Eng.
Consulting Geologist

CERTIFICATION

I, George L. Mill, hereby certify:

1 - That I am a Mining and Metallurgical Engineer residing at 255-5936 Willow Street, Vancouver, B.C., V5Z 3S6.

2 - That I am a graduate of Queen's University, B.Sc., and a registered member of the Corporation of Professional Engineers of the Province of British Columbia.

3 - That I have practised my profession for 49 years.

4 - That I have no financial interest, direct or indirect, in the shares of Short Shaun Enterprises, in the Mount Seaton Claim Group, in any other claims in the general area and that I do not expect to obtain any such interest.

5 - The four claims comprising the Seaton Group lie north of Mount Seaton in the 5000 to 6000 foot range above sea level. Exploratory work was started early in September but adverse weather conditions forced the limitation of the program to stream sediment sampling. Copper mineralization, together with minor molybdenum is known to exist in the area.

6 - It is recommended that the exploratory program outlined on Page 7 of the report be brought to completion but that no exploratory work be undertaken prior to July, 1981.

George L. Mill

George L. Mill, P. Eng.

To accompany report on
Mount Seaton Claim Group
Omineca Mining Division
For Short Shaun Enterprises
September, 1980

COST STATEMENT

Personnel

NAME	POSITION	RATE	DAYS	COST
J.M. Logan	Field Geologist	$ 200	13	$ 2600.
I. Francis	Field Prospector	120	13	1560.

Room and Board

18 Man Days @ $30. per day — 540.

Camp Costs

8 Man Days @ $15. per day — 120.

Transportation

Travel: Auto (Vancouver to Smithers and Return)	
Fuel	67.81
Mileage @ $.25 per mile	367.50
18 Days @ $10. per day	130.
Air Pacific Western	155.50
Okanagan Helicopters 5.5 hours @	2208.24

Assays

23 Stream Sediments: analysed for Cu, Mo @ %2.55 per sample — 65.55

Report Writing

2.5 Days @ $200. per day — 500.

Drafting

420.

Report Typing

8 Pages @ $2. per page — 16.

Total — $ 8750.60

APPENDIX

CHEMEX LABS LTD.

212 BROOKSBANK AVE
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : Mr. Logan
Apt. #1-1133 Harwood St.,
Vancouver, B.C.

CERT. # : A8010440-001
INVOICE # : 39069
DATE : 23-SEP-80

REQUEST RESULTS COD

Sample description	Prep code	Cu ppm	Mo ppm				
B1-6-01	201	42	3	--	--	--	--
B1-6-02	201	50	1	--	--	--	--
B1-6-03	201	44	1	--	--	--	--
B1-6-04	201	56	1	--	--	--	--
B1-6-05	201	38	2	--	--	--	--
B1-6-06	201	48	2	--	--	--	--
B1-6-07	201	66	3	--	--	--	--
B1-6-08	201	24	1	--	--	--	--
B1-6-09	201	74	2	--	--	--	--
B1-6-10	201	48	2	--	--	--	--
B1-6-11	201	40	1	--	--	--	--
B1-6-12	201	48	1	--	--	--	--
B1-6-13	201	44	1	--	--	--	--
B1-6-14	201	440	27	--	--	--	--
B1-6-15	201	92	5	--	--	--	--
B1-6-16	201	230	6	--	--	--	--
B1-6-17	201	215	5	--	--	--	--
B1-6-18	201	220	4	--	--	--	--
B1-6-19	201	210	12	--	--	--	--
B1-6-20	201	126	4	--	--	--	--
B1-6-21	201	68	4	--	--	--	--
B1-6-22	201	156	3	--	--	--	--
B1-6-23	201	140	3	--	--	--	--

Certified by Hart Biddle

CTA MEMBER CANADIAN TESTING ASSOCIATION

ASSAY RESULTS

SAMPLE DESCRIPTION	Cu ppm	Mo ppm
B1-01	42	3
B1-02	50	1
B1-03	44	1
B1-04	56	1
B1-05	38	2
B1-06	48	2
B1-07	66	3
B1-08	24	1
B1-09	74	2
B1-10	48	2
B1-11	40	1
B1-12	48	1
B1-13	44	1
B1-14	440	27
B1-15	92	5
B1-16	230	6
B1-17	215	5
B1-18	220	4
B1-19	210	12
B1-20	126	4
B1-21	68	4
B1-22	156	3
B1-23	140	3

Luno Creek

KAREN

AVALANCHE

SNOW

NOBLE-C

MOUNT SEATON

BL-1 BL-2 BL-3 BL-4 BL-5 BL-6 BL-7 BL-8 BL-9 BL-10 BL-11 BL-12 BL-13 BL-14 BL-16 BL-17 BL-18 BL-19 BL-20 BL-21 BL-22 BL-23

5000 4500 4000 5500 6000 6500

METERS 0 250 500 1000

N

127° 10'
55° 8'

SHORT STAUN ENTERPRISES

REGISTERED PROFESSIONAL ENGINEER L.B. GOLDSMITH PROVINCE OF ONTARIO

Stream sediment GEOCHEMISTRY

to accompany report by J. Logan, Sept. 1980

L.B. GOLDSMITH, P.Eng., CONSULTING GEOLOGIST

ARCTEX ENGINEERING SERVICES

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8716

Mt. Seaton Property
OMINECA M.D. 93 M 3W

KAREN, AVALANCHE, SNOW & NOBLE-C CLAIMS