80-845#8616

ASSESSMENT REPORT

PERCUSSION DRILLING AND SAMPLING

on the

SKU GROUP OF MINERAL CLAIMS

The claims involved are SKU 1-2245(11), SKU 2-2246(11), and Good News 2374 (1) located in the Kamloops Mining Division and SKU 4-757 (11) located in the Nicola Mining Division.

Latitude

50°18'

Longitude

1200571

Map No.

92I/7W

Owner and Operator of the Claim Group is Pearl Resources Ltd., 1015-837 W. Hastings Street, Vancouver, B.C. V6C 1C4.

REPORT

BY

John DeLeen, Consulting Geologist, P.Eng.

Report covers the assessment work recorded on these claims on November 5th, 1980.

Jøhn DeLeen, P.Eng.

November 5, 1980.

ASSESSMENT REPORT

OUTPUT

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INTRODUCTION

(1) Location

The Sku Claim Group is located at the southern end of the Highland Valley, about 30.4 kilometers northwest of the town of Merritt (see Figure 1). The claims lie just south of Skuhun Creek and about 2500 kilometers east of the junction of Skuhost Creek. The claims lie in the southwestern quarter of Map 92I/7W.

Access to the claim group is by vehicle on the Skuhun Creek Road, a distance of about 12.5 kilometers from the junction of the Skuhun Creek road with the Merritt-Spences Bridge Highway.

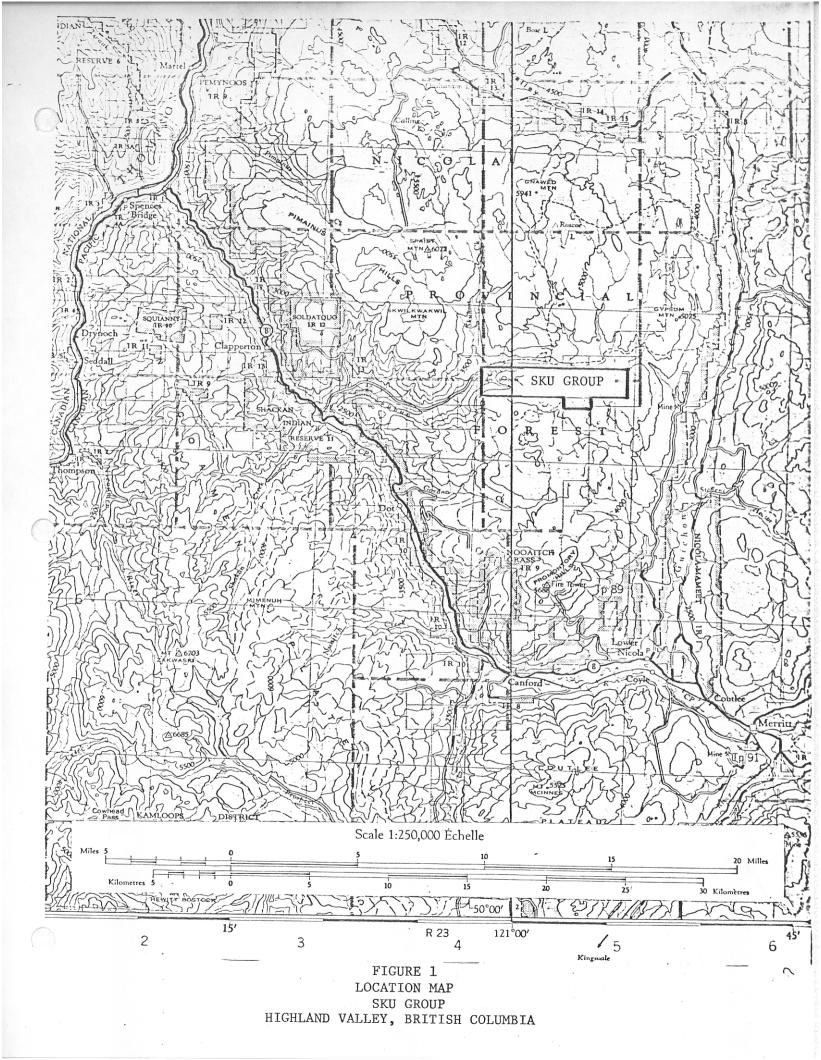
(2) Property (Figure 2)

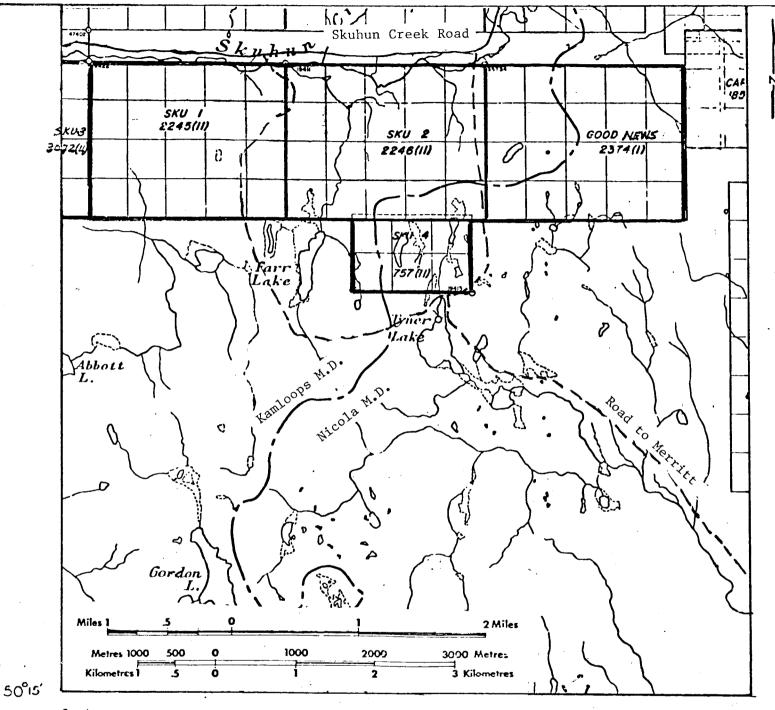
The property was acquired by staking in November 1980 and January 1981. The claim group is known as Sku Group of claims (see Figure 1) as follows:

Sku 1	Record No.	2245(11)	20	units
Sku 2	Record No.	2245(11)	20	units
Good News	Record No.	2374(1)	20	units
Sku 4	Record No.	757(11)	6	units
Sku 3	Record No.	3072(11)	<u>16</u>	units
	TOTAL		82	units

The Sku 3 claim was acquired by staking in November 1980.

The Sku 1, Sku 2, Sku 3 and Good News claims are located in the Kamloops Mining Division and the Sku 3 is located in the Nicola Mining Division. This assessment report is submitted to cover the work requirements of the Sku 1, Sku 2, Good News and Sku 4 claims.





151**,**00,

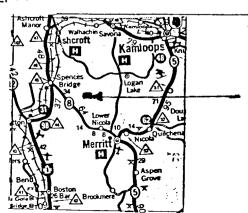


Figure 2 Claim Map Sku Group

Location on the south side of Skuhun Creek - 15 miles southeast of Spences Bridge. Scale 1" = 38 mi. This claim group was previously owned by Placer

Development. It was known as the "Tyner Lake" claim group.

Assessment reports have been completed on the property and are

listed in the bibliography. The location of 8 percussion drill

holes is given on Figure 3. The logs of these holes were not

available. It is understood, however, that low copper values were

obtained from the assays of drill cuttings.

The current owner of the Sku group of mineral claims is Pearl Resources Ltd., c/o 1015 - 837 W. Hastings Street, Vancouver, B.C. V6C 1C4.

The claims are located over the Bethsaida-Bethlehem and the Bethlehem-Guichon Contact of the Guichon Creek Batholith.

The claims also cover a zone of fractured intrusive rocks located along the Skuhun Creek Fault. Some malachite and chalcopyrite were noted in two outcrops on the Sku 1 mineral claim. The claim group covers an area that has similar geological conditions to those that formed the copper deposits in the northern portion of the Highland Valley. Unfortunately, the Sku claim group is covered by a mantle of glacial debris. Consequently, a drilling program will be necessary to evaluate the property.

(3) Work Completed

In order to test the depth of the bedrock, to obtain geologic information and rock samples, a program of percussion drilling was completed on the Sku 1 claim along the Tyner Lake road (see Figure 3). Seven drill holes for a total of 256.0 meters were completed as follows:

D.D.H.	Depth		Depth of Overburden	Elevation of Collar
80-1	33.5M	(100')	1.OM	1366M(4489')
80-2	33.5M	(100')	1.OM	1362M(4470')
80-3	45.7M	(150')	3.3M	1335M(4380')
80-4	39.6M	(130')	5.OM	1305M(4280')
80-5	33.5M	(100')	5.OM	1231M(4040;)
80-6	48.7M	(160')	+53.0M all overburden	1201M(3940')
80-7	33.5M	(100')	9.9M	1204M(3950')
	256.0M			

(4) Preparation of Samples

The cuttings of the holes were collected in 10 foot samples (3.05M). The samples were split and about 5 kilograms from each sample was taken for assay. From this sample about 0.5 kilograms was taken and washed. The plus 1/8 inch fraction was stored in a vile for future use. A portion of the washed sample was taken and split into two fractions, the plus 1/8 inch and the minus 1/8 inch. This material was then glued to mylar strips and examined under a microscope. A description of the cuttings examined by Dr. L. Riccio and M. Rebagliati is included in Appendix "B".

(5) Geology

As noted, there are only 7 outcrops on the 4 claims covered in this report. Six of the outcrops were mapped by Dr. W.J. McMillan on Map No. 30. The seventh outcrop was found at the collars of P.D.H. 80-1 and P.D.H. 80-2. The general geology, therefore, has been taken from the Preliminary Map No. 30 by W.J. McMillan. The contacts on this map have been interpreted from the geophysical surveys noted in the assessment reports listed in the bibliography.

The drilling started in Unit 4a, the Bethlehem phase of the Guichon Creek intrusive - see logs of holes P.D. 80-1 and P.D. 80-2. In general, the cuttings from the Bethlehem phase varied in composition from a quartz-diorite to a tonalite. The cuttings had a greyish color. An estimate of the mineral composition of the drill cuttings was completed by Dr. L. Ricco and Mr. M. Rebagliati, P.Eng., (see Appendix "A", Section on drill logs).

The percussion drill holes P.D.H. 80-3, P.D.H. 80-4 and P.D.H. -5 had a pinkish color due to the increase in potash feldspar. The composition of the intrusive is that of a quartz-monzonite and is a portion of the Bethsaida Phase of the Guichon Creek Batholith.

P.D.H. 80-6 failed to reach bedrock. It was drilled to a depth of 53.0 meters. The cuttings of P.D.H. 80-7 appeared to have a greyish color similar to that of P.D.H. 80-1 and P.D.H. 80-2. It is believed that P.D.H. 80-7 intersected a dyke of the Bethlehem phase of the intrusion. However, the cuttings were badly contaminated and the composition of the rock could not be determined.

Some malachite stains were noted in some of the cuttings. Also, some of the cuttings had grayish fragments of quartz which could have contained molybdenite mineralization. All of the cuttings were assayed geochemically for copper and molybdenum.

The geochemical assays of the drill cuttings are included in Appendix "C". All of the holes contained less than 419 ppm copper. Percussion drill holes 80-1, 80-2, 80-3 and 80-5 contained the better copper values. All of the drill holes contained less than 5 ppm molybdenum.

RECOMMENDATIONS

The approximate depth of the overburden and the approximate location of the Bethsaida-Bethlehem contact of the Guichon Creek has been determined. There is now sufficient basic data available to complete a program of pattern drilling on the claim group.

John DeLeen, P. Eng. November 5. 1980

JOHN L. DELEEN

STATEMENT OF COSTS

Percussion Drilling, 256 meters at 26.22/meter October 26-November 3, 1980	r	\$ 6,711.25
Scope Exploration Services		
Geologist, R. Wells, 7.5 days @ \$150/day	\$ 1,125.00	
Vehicle, 10 days field and deliver samples to Vancouver 10 x 35 Gas @ \$12/day	350.00 120.00	
Assaying, 62 samples @ \$3.06/sample	190.00	
Viles for sample cuttings	10.00	
John DeLeen, 4 days field work- 2 days in July and Oct. 19 & 26, plus 2 days office work - 6 days @ \$300/day	1,800.00 \$ 3,595.00	
Note: - of the \$ 3,595.00 the amount recorded on Nov. 5/80 was:		2,059.00
T O T A L		\$ 8,770.25

APPENDIX "A"

BIBLIOGRAPHY

Assessment Reports

"Geology of the Guichon Creek Batholith", (NTS 92I) W.J. McMillan, Preliminary Map No. 30

"Magnetometer Survey for Tyner Lake Mines Ltd. (NPL), Highland Valley", Assessment Report 2177, 1969.

Induced Polarization Survey for Tyner Lake Mines Ltd. (NPL), Assessment Report 2201, 1969.

APPENDIX "B"

LOGS FOR

PERCUSSION DRILL HOLES 80-1, 2, 3, 4, 5 and 7.

SKU CLAIMS

SKUHUN CREEK AREA

BRITISH COLUMBIA

bу

L. RICCIO, Ph D
NOVEMBER 25, 1980.

- 3'-10' Plag (60%) Qtz (15%) Kspar (5%) and 10% mafics (hbl-biot). Moderate chlorite-epidote alteration. QUARTZ DIORITE.
- 10'-20' As Above. QUARTZ DIORITE
- 20'-30' As above but with hbl greater than biotite. Weak to moderate limonite staining of feldspars. QUARTZ DIORITE
- 30'-40' Plag (75%) Qtz (15%) trace to 3% Kspar. Less than 10% mafics (hbl-biotite).
 Chlorite and minor epidote alteration. QUARTZ DIORITE
- 40'-50' Plag (70%) Qtz (20%) trace Kspar. 10% mafics (hbl-biotite). Some chlorite and sericite alteration. Minor epidote. QUARTZ DIORITE
- 50'-60' As above but hornblende greater than biotite. QUARTZ DIORITE.
- 60'-70' As above but more epidote alteration. QUARTZ DIORITE
- 70'-80' Plag (60%) Qtz (25%) Kspar (2-4%). 10-13% mafics (hbl-biotite). Moderate chlorite epidote alteration. TONALITE
- 80'-90' As above. TONALITE
- 90'-100' As above but increasing chloritization. TONALITE
- N.B. Some calcite and magnetite throughout.
- Summary: Quartz diorite becoming tonalitic at depth. Trace to 5% Kspar and approximately 10% mafics, mainly hornblende and biotite in equal amounts. Moderate to weak epidote alteration after plagioclase. Mafics variably chloritized. Some sericite. Calcite and magnetite throughout. No sulphides or malachite staining observed.

- 3'-10' Plag (65%) Qtz (25%) Kspar. 10% mafics, chlorite and subordinate hornblende (no biotite). Moderate epidote alteration.
- 10'-20' Plag (60%) Qtz (30%) Kspar (trace). Less than 10% mafics, chlorite and subordinate hornblende. Some epidote alteration. TONALITE
- 20'-30' Plag (70%) Qtz (20%) and Kspar (trace). 10% mafics including chlorite, biotite and hornblende. Some epidote alteration. QUARTZ DIORITE
- 30'-40' Plag (65%) Qtz (25%) Kspar (trace). 10% mafics: chlorite greater than biotite and hornblende. Moderate epidote alteration. TONALITE
- 40'-50' As above. TONALITE
- 50'-60' Plag (70%) Qtz (20%) Kspar (trace). 10% mafics.
 Abundant chlorite and minor hornblende and biotite.
 Moderate epidote alteration. Partial malachite coating of one grain. QUARTZ DIORITE
- 60'-70' As above but no malachite. QUARTZ DIORITE
- 70'-80' As above. QUARTZ DIORITE
- 80'-90' Plag (70%) Qtz (20%) Kspar (trace). 10% mafics with hornblende and biotite greater than chlorite. QUARTZ DIORITE
- 90'-100' As above. QUARTZ DIORITE
- N.B. Calcite and magnetite throughout and more abundant than in PER 80-1.
- Summary: Compositionally similar to PER 80-1 (quartz-diorite to tonalite) but clearly richer in chlorite as well as in epidote and calcite. Malachite staining observed in one grain of interval 50'-60'. No sulphides detected.

- 10'-20' Plag (55%) Qtz (20%) Kspar (20%). 5% mafics: biotite, chloritized biotite, and subordinate hornblende. GRANODIORITE
- 20'-30' Plag (50%) Qtz (15%) Kspar (30%). 5-10% mafics: biotite, chlorite, subordinate hornblende. Some hematitic alteration and very minor epidote. QUARTZ MONZONITE
- 30'-40' Plag (60%) Qtz (10%) Kspar (25%). 5-10% mafics: chloritized biotite, chloritized hornblende and minor biotite. QUARTZ MONZONITE
- 40'-50' Plag (40-50%) Qtz (20-25%) Kspar (20-25%). 10% mafics: chloritized biotite mainly, minor hornblende. Some epidote. GRANODIORITE
- 50'-60' Plag (45%) Qtz (25%) Kspar (20%). 10% mafics: cloritized biotite, biotite, subordinate hornblende. Some hematite staining and very minor epidote. GRANODIORITE
- 60'-70' Plag (50%) Qtz (20%) Kspar (20%). 10% mafics: chloritized biotite, minor hornblende. GRANODIORITE
- 70'-80' Most feldspars are stained yellowish-brown. Qtz (less than 10%). Mafics mainly chlorite. Abundant calcite. QUARTZ MONZONITE
- 80'-90' Plag (45%) Qtz (25%) Kspar (20%). 10% mafics: chlorite greater than biotite, minor hornblende. GRANODIORITE
- 90'-100' As above except less than 10% mafics.
- 100'-110' Plag (60%) Qtz (15%) Kspar (20%). 5% mafics: hornblende greater than biotite; some chlorite and minor epidote alteration. QUART MONZONITE.
- 110'-120' Plag (55%) Qtz (20%) Kspar (20%). 5% mafics: hornblende greater than chlorite, minor biotite. Trace epidote. GRANODIORITE
- 120'-130' Plag (50%) Qtz (20%) Kspar (20%). 5-10% mafics: horn-blende greater than biotite and chlorite. Some epidote. GRANODIORITE
- 130'-140' Plag (35%) Qtz (30%) Kspar (20%). 15% mafics, biotite mainly, minor hornblende. GRANITE-GRANODIORITE

140'-150' Plag (50%) Qtz (20%) Kspar (20%). 10% mafics: hornblende and biotite in equal amounts, some chlorite.

N.B. Some magnetite and calcite throughout.

Summary: Granodiorite to quartz monzonite containing 5 to 10% mafics. The latter include chlorite (chloritized biotite); biotite and hornblende in variable relative proportions. Possible granitic phase at 130'-140'. Some calcite and magnetite throughout. Very minor epidote alteration.—

Quartz monzonite between 15' and 60' then granodiorite. Approximately 10% mafics throughout except for 5% between 60' and 70'. Very rich in pink feldspar between 40' and 50'. Below is a summary of mafic minerals:

- 15'-20' Biotite greater than hornblende; some chlorite, minor epidote.
- 20'-30' Biotite greater than hornblende, subordinate chlorite.
- 30'-40' Biotite greater than hornblende, some chlorite. MALACHITE
- 40'-50' Biotite much_greater than hornblende, minor chlorite.
- 50'-60' Biotite greater than hornblende, some chlorite, minor epidote.
- 60'-70' Chlorite-hornblende greater than biotite, some epidote.
- 70'-80' Chloritized biotite greater than hornblende, minor epidote.
- 80'-90' Biotite greater than hornblende, some chlorite, minor epidote.
- 90'-100' Chloritized biotite greater than hornblende, trace epidote.
- 100'-110' Biotite and hornblende in equal amounts, trace epidote.
- 110'-120' Biotite and hornblende in equal amounts, trace epidote, minor chlorite.
- 120'-130' As above plus trace epidote.
- N.B. Some calcite and magnetite throughout.
- Summary: Quartz monzonite with biotite greater than hornblende to 60' becoming granodioritic with progressive increase of hornblende relative to biotite at depth. Overall very little alteration except for local chloritization of biotites, especially between 60' and 100'. Note malachite staining of one grain between 30' and 40'. Calcite and magnetite throughout.

- 15'-20' Plag (45%) Qtz (15%) Kspar (30%). Less than 10% mafics: biotite and chlorite greater than hornblende. QUARTZ MONZONITE
- 20'-30' Plag (50%) Qtz (15%) Kspar (25%). Mafics 10%: biotite and chlorite greater than hornblende. Trace epidote. QUARTZ MONZONITE
- 30'-40' Plag (45%) Qtz (20%) Kspar (25%). 10% mafics: biotite and chlorite much greater than hornblende. Trace epidote GRANODIORITE
- 40'-50' Plag (50%) Qtz (20%) Kspar (20%). 5-10% mafics: biotite and chlorite greater than hornblende. Trace epidote One grain of pyrite. GRANODIORITE
- 50'-60' Plag (60%) Qtz (15%) Kspar (15%). 10% mafics: biotite and subordinate chlorite greater than hornblende. One grain of pyrite. QUART MONZONITE
- Plag (55%) Qtz (20%) Kspar (15%). 10% mafics: biotite and chlorite greater than hornblende. Trace epidote. GRANODIORITE
- 70'-80' Plag (40%) Qtz (25%) Kspar (20%). 15% mafics: biotite and chloritized biotite greater than hornblende. One grain of pyrite. GRANODIORITE
- 80'-90' Plag (45%) Qtz (25%) Kspar (20%). 10% mafics: biotite, subordinate chlorite, minor hornblende. GRANODIORITE
- 90'-100' As above. GRANODIORITE
- N.B. Some calcite and magnetite throughout.
- Summary: Quartz monzonite followed by granodiorite. Both contain about 10% mafics with biotite always in excess of horn-blende. Chlorite, possible chloritized biotite accounting for 2-3% of mafics minerals. Individual grains of pyrite observed in three intervals. Epidote alteration not significant. Some calcite and magnetite throughout.

Difficult to define composition due to presence of numerous fragments of overburden throughout. Appears to be granodiorite and definately less Kspar - rich than PER HOLES 4 and 5. Contains approximately 10% mafics which include biotite, chlorite and horn-blende. Minor epidote alteration of plagioclase and some calcite and magnetite throughout. No sulphides or malachite were observed.

Comments about nomenclature -

The term quartz monzonite has been applied to rocks with less than 20%quartz and more than 10% Kspar (for quartz + Kspar + Plagio-clase = 100%). However it should be pointed out that according to the IUGS classification on igneous rocks (see Geotimes October 1973, p.26) most of these "quartz monzonites" should be classified as "quartz monzodiorites". It should also be noted that the estimated percentages of light coloured minerals are very subjective since no staining for Kspar was done before examining the cuttings under a binocular microscope.

puco Roc -

Statement of Qualifications

I am a graduate of the University of Turin, Italy. BSc in 1969, major in geology. I subsequently obtained an MSc (1972) and a PhD (1976) from the University of Western Ontario. I have worked as exploration geologist while attending postgraduate school at Western. After graduation from Western I was employed by C.I.D.A. to teach petrology and economic geology at the University of Bahia, Brazil. Currently working for Anaconda Canada Exploration Ltd as staff geologist.

I am the author and coauthor of several technical papers.

I am a member of the G.A.C. and of the Geological Societies of Italy and Brazil.

I have made a brief examination of the percussion drill cuttings, reviewed Dr. L. Riccio's descriptions and concur with his conclusions.

The quartz diorite and tonalite in holes 80-1 and 2 are similar to the Bethlehem Phase, where as the quartz monzonite and granodiorite in holes 80-3, 4, 5 and 7 resemble the Besthsaida Phase of the Guichon Creek Batholith.

C. M. Rebagliati, P.Eng

APPENDIX "C"

ASSAYS OF DRILL CUTTINGS

OF HOLES P.D. 80-1, 80-2,

80-3, 80-4, 80-5 and 80-7.

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CERTIFICATE OF ASSAY

No.: 8011-1253 DATE: Nov. 28/80

We hereby certify that the following are the results of assays on:

Geochem samples

MADVEO	x \$2\\\ 2xxxxx\$\\\\$\\\\$\\\	Copper Molybdenum xxx			xxxx	XXXX	xxx
MARKED		Cu (ppm	Mo (ppm)	,			
HOLE 80-1							-
0901 3-10 0902 10-20 0903 20-30 0904 30-40 0905 40-50 0906 50-60 0907 60-70 0908 70-80 0909 80-90 0910 90-100		419 66 157 102 78 66 117 132 95	44450004444				
HOLE 80-2)-	++				
0911 3-10 12 10-20 0913 20-30 0914 30-40 0915 40-50 0916 50-60 0917 60-70 0918 70-80 0919 80-90 0920 90-100		102 128 176 138 119 50 40 33 25	4 4 4 3 4 1 3 3 2 2				
HOLE 80-3 0921 10-20 0922 20-30 0923 30-40 0925 40-50 0951 50-60 0952 60-70 0953 70-80 0954 60-90 0955 90-100 0956 100-110 0957 110-120		67 108 64 33 31 50 40 50 38 113 203	32 32 3332 2 43		Continue	d on page	2

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PROVINCIAL ASSAYER

General Testing Laboratories

A Division of SGS Supervision Services Inc.





(Continued) ... page 2

8011-1253 DATE: Nov. 28/80

CERTIFICATE OF ASSAY

We hereby certify that the following are the results of assays on:

TO:

Geochem samples

	£942xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Copper	Molybdenu	u xxx	xxxxx	xxxxx	30000
MARKED		Cu (ppm)	Mo (ppm)				
HOLE 80-3 0958 120-130 0959 130-140 0960 140-150		59 52 51	3 2 3				
HOLE 80-4 0961 15-20 0962 20-30 0963 30-40 0964 40-50 0965 50-60 0966 60-70 0967 70-80 0968 80-90 69 90-100 □ 100-110 0971 110-120 0972 120-130		56 73 63 78 89 43 43 74 56 58 65	2 3 3 2 2 3 3 3 3 3 2 3				
HOLE 80-5 0973 15-20 0974 20-30 0975 30-40 0976 40-50 0977 50-60 0978 60-70 0979 70-80 0980 80-90 0981 90-100		37 38 37 50 27 27 27 32 128 106	3 2 4 3 3 2 2 3				
HOLE 80-7 0991 30-40 0992 40-50 0993 50-60 0994 60-70 0995 70-80 0996 80-90 0997 90-100		63 76 49 77 51 52 53	3 3 3 3 2 3 2				

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Nadeau, Chemist

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CERTIFICATE

I, John L. DeLeen, of the City of Vancouver in the Province of British Columbia, hereby certify the following:

- 1. I am a geological and mining engineer with an office at 1015-837 W. Hastings Street, Vancouver, B.C.
- I am a graduate of the University of British Columbia with a B.A.Sc. (1943) and M.A.Sc. (1946) degrees in Geological Engineering. In 1950 I obtained the degree of Mining Engineer from the University of California.
- 3. I have practised my profession since 1946.
- 4. I am a member of the Association of Professional Engineers of British Columbia.
- 5. This report is based upon two days of field examination of the property in July and October 1980, and upon the reports of the British Columbia Department of Mines.

DATED at Vancouver, B.C. this 5th day of November 1980.

John L. DeLeen, P.Eng.



