



DATE May 27, 1983

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

SAMPLE RECEIVED FROM W. J. McMILLAN

ADDRESS Geological Branch

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
27188M	G 79-3: 298-300	Au - <1 ppm Ag - 0.6 ppm Cu - 0.16% Mo - 122 ppm K - Insufficient biotite obtained to run K
27189M	G 80-21: 237-244	Au - <1 ppm Ag - 0.3 ppm Cu - 0.081% Mo - 12 ppm K - Insufficient biotite obtained to run K
27188M	G 79-3: 298-300	<u>Mineral Separation Report:</u> A cut was taken after crushing, pulverized and sent for assaying. The remainder was used for biotite separation. Heavy liquids and the Frantz was used on two separate size fractions (-60 +80 and -80 +100 mesh) to separate out the biotite. A few good biotite flakes were found but not enough for K/Ar age dating. Most of the biotite was found as a very small size in conglomerate crystals. No clear separation of these crystals could be made.
27189M	G 80-21: 237-244	A portion of the -60 +80 mesh sample was run through heavy liquids and the Frantz. Not enough good biotite in the sample to warrant further separation. Major portion of rock appeared to be chlorite.

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LEGEND

T - TRACE
M.C. - MAJOR CONSTITUENT
N.D. - NOT DETECTED
P - PRESENT

W. M. Johnson
.....
CHIEF ANALYST

LAB SERVICES

SUBMITTER WS McMillan DATE SUBMITTED 27/88 M
27/89 M
29/04/82
 Area/property Gambler Copper NTS 926/11
 Field Number(s) G 80-21 and G 79-3
 Lab Number(s) _____

WORK REQUESTED

- Major oxide analysis complete partial
 Trace element analysis quant. semi-quant.
 Assay
 Soil/silt analysis
 X-ray analysis dA requested
 Arc fusion quartz
 Mineral separation

Bulletin GEM Talk

Other paper

Date Required _____

Special Instructions and Comments

Mineral separation -
assay ~~them~~ if any left over

Nature of sample(s) _____

Assay (x) for elements desired

Trace element Analysis (ppm) (✓) for elements desired

Quantitative Semi-Quant.

OXIDE ANALYSIS

Partial Complete

(check off oxides desired)

Cu Cu oxide

Fe Ba

Pb

Mn Zr

Zn

V Ga

Mo MoS₂ Mo oxide

Ti Sn

Au

Ni Cr

Ag

Co W

Si

Na F

Al

K Cl

Mg

Sr

Ca

Rb

SiO₂

H₂O⁺

TiO₂

H₂O⁻

Al₂O₃

CO₂

Fe₂O₃

SO₃

FeO

P₂O₅

MnO

MgO

CaO

Na₂O

K₂O



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WHOLE ROCK <input type="checkbox"/> DIFFRACTION <input type="checkbox"/>		SEMI-QUANTITATIVE SPECTROGRAPHIC ANALYSIS (IN PER CENT)							
LABORATORY NO.:	27188M	27189M							
SUBMITTER'S MARK:	G79-3: 298-300	G80-21: 237-244							
Si	>10.0	>10.0							
Al	>10.0	>10.0							
Mg	2.0	2.0							
Ca	4.0	3.5							
Fe	5.0	5.0							
Pb	T↓	-							
Cu	0.15	0.05							
Zn	T↓	T↓							
Mn	0.06	0.1							
Ag	T↓	T↓							
V	T	0.01							
Ti	0.17	0.17							
Ni	T	T							
Co	T	T							
Na	>2.0	>2.0							
K	>2.0	>2.0							
Mo	0.01	T							
Sr	0.04	0.04							
Ba	0.025	0.025							
TRACES:	Ga, Zr, Cr, W, B	Ga, Zr, Cr, W, B, Y, Yb, Sc							

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W. M. Johnson
 CHIEF ANALYST

SUBMITTER W J Mc Miller DATE SUBMITTED May 10/82
 Area/property POISON MOUNTAIN NTS 920
 Field Number(s) 920-PM-1, 2 and 4
 Lab Number(s) _____

WORK REQUESTED

- Major oxide analysis complete partial
 Trace element analysis quant. semi-quant.
 Assay
 Soil/silt analysis
 X-ray analysis dA requested
 Arc fusion quartz
 Mineral separation

Bulletin GEM Talk

Other _____

Date Required _____

Special Instructions and Comments

see detailed sheets

Nature of sample(s)

Assay for elements desired

Trace element Analysis (ppm) for elements desired

Quantitative Semi-Quant.

Cu Cu oxide

Pb

Zn

Mo MoS₂ Mo oxide

Au

Ag

Si

Al

Mg

Ca

Fe Ba

Mn Zr

V Ga

Ti Sn

Ni Cr

Co W

Na F

K Cl

Sr

Rb

OXIDE ANALYSIS

Partial Complete

(check off oxides desired)

SiO₂ H₂O+

TiO₂ H₂O-

Al₂O₃ CO₂

Fe₂O₃ SO₃

FeO P₂O₅

MnO

MgO

CaO

Na₂O

K₂O



DATE May 31, 1983

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SAMPLE RECEIVED FROM W. J. McMILLAN

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LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
27211M	92Ø PM-1	<p style="text-align: center;"><u>Mineral Separation Report</u></p> <p>Separation was carried out on -40 +60 and -60 +80 mesh samples by heavy liquids and the Frantz. Were able to separate out a 98.5% pure biotite sample. The remaining foreign material could not be separated out. Total amount of biotite collected was 3.5 g: 1 g of sample was sent for K analysis and 2.5 g were returned for K/Ar dating.</p>
27212M	92Ø PM-2 <i>(Hand picked just over 1 gram)</i>	<p>Visually, the sample contained approximately 5% hornblende. When separated the hornblende was found to be both altered and highly magnetic. An XRD pattern also indicated magnetite in the hornblende.</p> <p>Separation was carried out on -40 +60 and -60 +80 mesh samples by heavy liquids, then the Frantz and back to heavy liquids. No clear separation of hornblende could be made because of the above-mentioned problems. Also, plagioclase impregnated with magnetite was found in the sample which could not be separated out.</p> <p>Fractions were made up of the best hornblende and sent for hand-picking.</p>
27213M	92Ø PM-4 <i>(Hand picked ~ 1 gram)</i>	<p>Separation was carried out on -60 +80 mesh fraction. Very little biotite was found in the sample. Most found as -150 mesh in conglomerate crystals. A few good biotite flakes were found but could not be separated out using either heavy liquids or the Frantz. Not enough good biotite in sample to warrant further separation.</p>

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