



Province of
British Columbia

MEMORANDUM

676729

TO:

T. Faulkner
✓ V. Preto

FROM:

W.J. McMillan

SUBJECT:

Mt. Milligan

DATE:

Apr 17/69

FILE:

- | | | | | |
|---|---|---|---|---|
| <input type="checkbox"/> For Your Information | <input type="checkbox"/> Please O.K. and Return | <input type="checkbox"/> Please Discuss With Me | <input type="checkbox"/> Per Your Request | <input type="checkbox"/> For Your Signature |
| <input type="checkbox"/> Please Process | <input type="checkbox"/> Return With More Details | <input type="checkbox"/> Investigate and Report | <input type="checkbox"/> Please Answer | <input type="checkbox"/> For Your File |

New numbers from Mt. Milligan:

66.3 ± 2.3
109 ± 4

~ B. Mordaunt
for W.J. McMillan

REPLY:

Fold Here for Window Envelope

Fold Here for Window Envelope

K-Ar

Sample Number(s) and Reference(s) material Date Error
 Lab No: TGS 89-2 decay constants: (W. Rx.) 66.3 ± 2.3 Ma
 □ 4.72/.584/1.19 () ± Ma
 Ref: Tom Schroeter □ 4.72/.584/1.18 () ± Ma
MEMPR. □ 4.96/.581/1.167 () ± Ma

Record No: _____
 Suite No: _____ not reported
 Sample Name: _____

Latitude: _____ Longitude: (X° Y' Z" or X° Y.Y')
55° 07' N 124° 02' W (±) Elev. _____
 UTM Zone 10 6108819E 43410/N; Province B.C.
 Sec. _____, R. _____; Co., State _____

(NTS 93N/015) Manson River Map Area, Scale 1:250,000

Location: Mt. Miligan (Phil. Heid.) property
 Source Type: Drill core DDH 88-26 - 13m
 Rock: Perphyritic latite (monzonitic)
 Geologic Unit: Takla group andesitic pyroclastics (Dike intrudes)
 Geologic Age: _____
 Material Analyzed: Whole rock (-40+60), sulphides removed

Analytical Data: (list duplicate analyses or indicate n = 2, n = 3)

$K = 2 = 6.74 \pm 0.03$	(Ar ⁴⁰ = 17.695×10^{-6} cc/gm)	(Ar ⁴⁰)
$K_{20} = n = 3$	7.896×10^{-10} mol/gm)	(Ar ⁴⁰)
$K =$	$\times 10^{-6}$ cc/gm)	(Ar ⁴⁰)
$K_{20} =$	$\times 10^{-10}$ mol/gm)	(Ar ⁴⁰)
$K =$	$\times 10^{-6}$ cc/gm)	(Ar ⁴⁰)
$K_{20} =$	$\times 10^{-10}$ mol/gm)	(Ar ⁴⁰)
$K =$	$\times 10^{-6}$ cc/gm)	(Ar ⁴⁰)
$K_{20} =$	$\times 10^{-10}$ mol/gm)	(Ar ⁴⁰)

Comment on Analyses: _____

Interpretation: Early Cretaceous date expected. May be younger or non-representative or altered and unrepresentative. Rock has abundant disseminated sulphides.

Collected by: Mark Rebagliati for Tom Schroeter
 Dated by: W. H. K. D. Runkle
 Listed by: _____ Date: 03.28.89
 (name, institution)

K:Ar

Sample Number(s) and Reference(s) material Date Error
 Lab No: TGS 89-3 decay constants: (W.Rx.) 109 ± 4 Ma
 $\lambda = 4.72 / .584 / 1.19$ () ± Ma
 Ref: T. Schroeter $\lambda = 4.72 / .584 / 1.18$ () ± Ma
MEMPR. $\lambda = 4.96 / .581 / 1.167$ () ± Ma

Record No: _____
 Suite No: _____ a not reported
 Sample Name: _____

Latitude: _____ Longitude: (X° Y' Z" or X° Y.Y') _____
 (55° 07' N, 124° 02' W (±)); Elev. _____
 UTM Zone 10 608819 E 434101 N; Province B.C.
 Sec. _____ T. _____ R. _____; Co., State _____

(NTS 93NY01E) Manson River Map Area, Scale 1:250,000

Location: Mt. Milligan (Phil, Heidi) property
 Source Type: Drill core DDH 88-25-90m
 Rock: Hornfels - altered volcanic with secondary biotite
 Geologic Unit: Takla Group
 Geologic Age: _____
 Material Analyzed: Whole rock (-40+60), magnetite and sulphide removed

Analytical Data: (list duplicate analyses or indicate n = 2, n = 3 etc.)
 $K = \bar{x} = 3.32 \pm 0.04$ (Ar 40* = 14.459×10^{-6} cc/gm) (94.5 ± Ar 40)
 $K_{20} = \bar{x} = 2$ (Ar 40* = 6.452×10^{-10} mol/gm) () ± Ar 40
 $K = \bar{x}$ (Ar 40* = $\times 10^{-6}$ cc/gm) () ± Ar 40
 $K_{20} = \bar{x}$ (Ar 40* = $\times 10^{-10}$ mol/gm) () ± Ar 40
 $K = \bar{x}$ (Ar 40* = $\times 10^{-6}$ cc/gm) () ± Ar 40
 $K_{20} = \bar{x}$ (Ar 40* = $\times 10^{-10}$ mol/gm) () ± Ar 40
 $K = \bar{x}$ (Ar 40* = $\times 10^{-6}$ cc/gm) () ± Ar 40
 $K_{20} = \bar{x}$ (Ar 40* = $\times 10^{-10}$ mol/gm) () ± Ar 40

Comment on Analyses: _____

A
MCP

Interpretation: Contact mm related to Naver intrusion

Collected by: M. Rebagliatti for T. Schroeter
 Dated by: T. Harrell & D. Runkle
 Listed by: _____ Date: 03/22/84
 (name, institution)