676238

K-Ar

Sample Number(s) and Reference(s)

material	Date	1σ error
Lab No: NC-67-16 decay constants: (Whole Rock)	69.5	± 2.0 Ma
☐ 4.72/.584/1.19 ( )		± Ma
Ref: Carter, 1974 ☑ 4.72/.584/1.18 ( )		± Ma
■ 4.96/.581/1.167 (WR)	70.7	± 2.0 Ma

Record No:

Suite No: ☐ not reported

Sample Name: Huber

Latitude: Longitude: (X° Y' Z" or X° Y.Y')

(54° 30' " N, 126° 42' " W (±);

UTM Zone ___ E N; Province BC

Sec. ___, T. ___, R. ___; ___ Co., State ___.

(NTS 93L) Smithers Map Area, Scale 1:250,000

Location: Huber porphyry Mo .8 mi N of Houston 1 mi E of Hwy 16

Source Type: trench

Rock: Biotite hornfels mineralized

Geologic Unit: Bulkley intrusion alaskite dyke cuts Hazelton Group crystal tuff

Geologic Age:

Material Analyzed: Whole rock

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

K = 1.07 ±0.002 %	; (Ar^{40*} = 3.001	$\times 10^{-6}$ cc/gm	; (82 $\%\Sigma Ar^{40}$)
K_2O= %		$\times 10^{-10}$ mol/gm)	
K = %	; (Ar^{40*} =	$\times 10^{-6}$ cc/gm	; ($\%\Sigma Ar^{40}$)
K_2O= %		$\times 10^{-10}$ mol/gm)	
K = %	; (Ar^{40*} =	$\times 10^{-6}$ cc/gm	; ($\%\Sigma Ar^{40}$)
K_2O= %		$\times 10^{-10}$ mol/gm)	
K = %	; (Ar^{40*} =	$\times 10^{-6}$ cc/gm	; ($\%\Sigma Ar^{40}$)
K_2O= %		$\times 10^{-10}$ mol/gm)	

Comment on Analyses:

Interpretation:

Collected by: N. Carter

Dated by: J.E. Harakal, N. Carter, and V. Bobik

Listed by: Date:
(name, institution)

K-Ar

Sample Number(s) and Reference(s)
Lab No: NC - 69 - 4

Ref: Carter, 1974

decay constants:
- ☐ 4.72/.584/1.19
- ✓ 4.72/.584/1.18
- ■ 4.96/.581/1.167

material	Date	1σ error
(Biotite)	176	± 7 Ma
( )		± Ma
( )		± Ma
(Bi)	178	± 7 Ma

Record No:
Suite No:
☐ not reported

Sample Name:
Tachek Creek

Latitude: Longitude: (X° Y' Z" or X° Y.Y')
(54° 45' " N , 126° 11' " W (±);

UTM Zone ___ _____ E _____ N; Province BC

Sec. ____, T. _____, R. _____; _____ Co., State _____.

(NTS 93L) Smithers Map Area, Scale 1:250,000

Location: Tachek Creek (Tachi) porphyry Cu-Mo 4 mi S of Topley Landing
Source Type:
Rock: Hornblende - biotite - quartz ~~-feldspar~~ porphyry mineralized
Geologic Unit: Topley dike late phase cuts Hazelton
Geologic Age:
Material Analyzed: Biotite poikilitic plates with some chloritic alteration

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

K = 6.54 ± 0.03 %	; (Ar^{40*} = 47.63	$x10^{-6}$ cc/gm)	
K_2O= %		$x10^{-10}$ mol/gm)	; (93 $\%\Sigma Ar^{40}$)
K = %	; (Ar^{40*} =	$x10^{-6}$ cc/gm)	; ($\%\Sigma Ar^{40}$)
K_2O= %		$x10^{-10}$ mol/gm)	
K = %	; (Ar^{40*} =	$x10^{-6}$ cc/gm)	; ($\%\Sigma Ar^{40}$)
K_2O= %		$x10^{-10}$ mol/gm)	
K = %	; (Ar^{40*} =	$x10^{-6}$ cc/gm)	; ($\%\Sigma Ar^{40}$)
K_2O= %		$x10^{-10}$ mol/gm)	

Comment on Analyses:

Interpretation:

Collected by: N. Carter
Dated by: J.E. Harakal, N. Carter, and V. Bobik
Listed by: _____ Date: _____
(name, institution)

K-Ar

Sample Number(s) and Reference(s)

Lab No: NC - 67-7

Ref: Carter, 1974

decay constants:
- ☐ 4.72/.584/1.19
- ☑ 4.72/.584/1.18
- ■ 4.96/.581/1.167

material	Date	1σ error
(Biotite)	48.7	± 1.9 Ma
( )		± Ma
( )		± Ma
(Bi)	49.5	± 1.9 Ma

Record No:

Suite No: ☐ not reported

Sample Name: Big Onion

Latitude: Longitude: (X° Y' Z" or X° Y.Y')

(54° 49' " N, 126° 53' " W (±);

UTM Zone ___ E N; Province BC

Sec. ____, T. ____, R. ____; ____ Co., State ____.

(NTS 93 L) Smithers Map Area, Scale 1:250,000

Location: Big Onion porphyry Cu-Mo 12 mi E of Smithers S side Astlais Mtn

Source Type: roadcut

Rock: Quartz monzonite post mineralization

Geologic Unit: Late phase dike Nanika cuts Hazelton

Geologic Age:

Material Analyzed: Biotite 1-2 mm plates, up to 10% chlorite

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

K = 4.50 ± 0.01 %; (Ar^{40*} = 8.782 $x10^{-6}$ cc/gm) ; (77 $\%\Sigma Ar^{40}$)
K_2O= % $x10^{-10}$ mol/gm)

K = %; (Ar^{40*} = $x10^{-6}$ cc/gm) ; ($\%\Sigma Ar^{40}$)
K_2O= % $x10^{-10}$ mol/gm)

K = %; (Ar^{40*} = $x10^{-6}$ cc/gm) ; ($\%\Sigma Ar^{40}$)
K_2O= % $x10^{-10}$ mol/gm)

K = %; (Ar^{40*} = $x10^{-6}$ cc/gm)
K_2O= % $x10^{-10}$ mol/gm) ; ($\%\Sigma Ar^{40}$)

Comment on Analyses:

Interpretation:

Collected by: N. Carter

Dated by: J.E. Harakal, N. Carter, and V. Bobik

Listed by: ____ Date: ____
(name, institution)

K-Ar

Sample Number(s) and Reference(s)

	material	Date	1σ error
Lab No: G76 TR 2	decay constants: (Biotite)	74.7	± 2.6 Ma
	☐ 4.72/.584/1.19 ( )		± Ma
Ref: GODWIN	☐ 4.72/.584/1.18 ( )		± Ma
	■ 4.96/.581/1.167 ( )		± Ma

Record No:

Suite No: ☐ not reported

Sample Name: Big Onion

Latitude: Longitude: (X° Y' Z" or X° Y.Y')

(54° 47' " N , 126° 51' " W (±);

UTM Zone ___ E N; Province BC

Sec. , T. , R. ; Co., State .

(NTS 93L) Smithers Map Area, Scale 1:250,000

Location: E of Big Onion porphyry

Source Type:

Rock: (Small) Hb-bio. granodiorite stock, near Big Onion porphyry (unmineralized)

Geologic Unit:

Geologic Age:

Material Analyzed: Biotite, quality very fine

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

K = 7.56 7.54 (±0.3%) %	; (Ar^{40*} = 22.386	x10^{-6} cc/gm)	; (93.0 $\%\Sigma Ar^{40}$)
K_2O= %	9.989	x10^{-10} mol/gm)	
K = %	; (Ar^{40*} =	x10^{-6} cc/gm)	; ($\%\Sigma Ar^{40}$)
K_2O= %		x10^{-10} mol/gm)	
K = %	; (Ar^{40*} =	x10^{-6} cc/gm)	; ($\%\Sigma Ar^{40}$)
K_2O= %		x10^{-10} mol/gm)	
K = %	; (Ar^{40*} =	x10^{-6} cc/gm)	; ($\%\Sigma Ar^{40}$)
K_2O= %		x10^{-10} mol/gm)	

Comment on Analyses:

Interpretation:

Collected by: C. Godwin

Dated by: J. E. Harakal

Listed by: Date: 2-1-79

(name, institution)

(NTS 093 L/10 E)

K-Ar

Sample Number(s) and Reference(s)

Lab No: G76 TR 54K.F

Ref: GODWIN

	material	Date	1σ error
decay constants:	(K. Feld.)	63.7	± 2.2 Ma
☐ 4.72/.584/1.19	( )		± Ma
☐ 4.72/.584/1.18	( )		± Ma
■ 4.96/.581/1.167	( )		± Ma
☐ not reported			

Record No:

Suite No:

Sample Name: Huber

Latitude: Longitude: (X° Y' Z" or X° Y.Y')

(54° 31' N , 126° 43.5' W (±);

UTM Zone ___ ___ E ___ N; Province B.C.

Sec.___, T.___, R.___; ___ Co., State___.

(NTS 93 L) Smithers Map Area, Scale 1:250,000

Location: Near Huber (Mineral Hill) area.

Source Type:

Rock: Med.-coarse grained porphyritic quartz monzonite with minor mineralization (Mo-Cu).

Geologic Unit: Stock

Geologic Age:

Material Analyzed: K. Feldspar, quality very fine.

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

K = 9.70 9.37 (±3.5%) %; (Ar^{40*} = 24.004 $\times10^{-6}$ cc/gm); (89.8 %ΣAr^{40})
K_2O= %   10.711 $\times10^{-10}$ mol/gm)

K = %; (Ar^{40*} = $\times10^{-6}$ cc/gm); (%ΣAr^{40})
K_2O= % $\times10^{-10}$ mol/gm)

K = %; (Ar^{40*} = $\times10^{-6}$ cc/gm); (%ΣAr^{40})
K_2O= % $\times10^{-10}$ mol/gm)

K = %; (Ar^{40*} = $\times10^{-6}$ cc/gm); (%ΣAr^{40})
K_2O= % $\times10^{-10}$ mol/gm)

Comment on Analyses:

Interpretation:

x

Collected by: C. Godwin

Dated by: J.E. Harakal

Listed by: (name, institution) Date: 6.25.79

K-Ar

Sample Number(s) and Reference(s)

Lab No: G78 DL 1

Ref: Godwin

decay constants:
- □ 4.72/.584/1.19
- □ 4.72/.584/1.18
- ■ 4.96/.581/1.167

material	Date	1σ error
(Biotite)	47.1	± 1.6 Ma
( )		± Ma
( )		± Ma

Record No:

Suite No: □ not reported

Sample Name: Del Santo

Latitude: Longitude: (X° Y' Z" or X° Y.Y')

(54° 39' " N , 126° 42' " W (±);

UTM Zone ___ ____ E ____ N; Province BC

Sec. ____, T. ____, R. ____; ____ Co., State ____.

(NTS 93L) Smithers Map Area, Scale 1:250,000

Location: Del Santo

Source Type:

Rock: Granodiorite

Geologic Unit:

Geologic Age:

Material Analyzed: Biotite, quality fine-very fine..

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

$K = \bar{X} = 5.13 \pm 0.15$ (5) $K_2O =$	%; (Ar^{40*} =	9.523 4.250	x10^{-6} cc/gm) x10^{-10} mol/gm)	; (84.9 %ΣAr^{40})
K = K_2O=	%; (Ar^{40*} =		x10^{-6} cc/gm) x10^{-10} mol/gm)	; (%ΣAr^{40})
K = K_2O=	%; (Ar^{40*} =		x10^{-6} cc/gm) x10^{-10} mol/gm)	; (%ΣAr^{40})
K = K_2O=	%; (Ar^{40*} =		x10^{-6} cc/gm) x10^{-10} mol/gm)	; (%ΣAr^{40})

Comment on Analyses:

Interpretation:

Collected by: C. Godwin

Dated by: J.E. Harakal

Listed by: ____ Date: 10.24.79

(name, institution)