



LEGEND

INTRUSIVE ROCKS

- TERTIARY**
- E_q** Quartz porphyry.
 - E_g** Dark green, black and brown, medium-grained equigranular gabbro and pyroxenite.

CRETACEOUS

- K_g** Biotite-muscovite fine- to medium-grained equigranular granite.
- J_g** Medium-grained equigranular hornblende-biotite granite.

LAYERED ROCKS

- K_v** Grey- to orange-weathering hornblende and hornblende-feldspar crystal lithic tuff.

EOCENE

- E_b** Massive dark green to black, fine-grained basalt.

NORTH AMERICAN MIOGEOCLINE

UPPER TRIASSIC

- T_i** Massive light grey sandy bioclastic limestone.
- T_s** Dark grey phyllite with laminations and beds of brown weakly calcareous quartz siltstone and sandstone and sandy limestone.

PERMIAN

MOUNT CHRISTIE FORMATION

- P_{Mc}** Dark to light grey, black, green, and white chert.

DEVONIAN - MISSISSIPPIAN

EARN GROUP

- D_{ME}** Dark grey pinstriped carbonaceous phyllite, slate, quartz sandstone, chert-pebble conglomerate and chert; lesser quartzofeldspathic greywacke and grit.

CASSIAR PLATFORM

MIDDLE DEVONIAN

- D_i** Thin- to medium-bedded dark grey to black locally feld limestone; two-hole crinoids.

SILURIAN - DEVONIAN

- SD_q** Massive grey orthoquartzite.
- SD_s** Sandy, cream-weathering dolostone and grey quartzite; the amount of quartzite increases upwards.
- SS** Thinly laminated tan platy siltstone and silty limestone; locally sandy.

HANGING WALL OF 'INCONNU' THRUST

YUKON-TANANA TERRANE

INTRUSIVE ROCKS

- P_{lg}** Leucogabbro, gabbro, diabase.
- P_{um}** Brown-weathering, dark green to black, variably serpentinized ultramafic rock. Intrusive contacts locally preserved.

LAYERED ROCKS

MID-PERMIAN (TO TRIASSIC?)

- P_{cg}** Red-brown to pale green matrix- and framework-supported polymictic conglomerate, pale green sandstone, dark grey schist and shale, and basalt. Conglomerate clasts include porphyritic basalt, aphyric massive basalt, chloritic phyllite, muscovite-quartz phyllite, siliceous carbonaceous phyllite, carbonate, white bull quartz and meta-chert. Clasts of diatex, serpentinite, blueschist and eclogite have been reported from this unit elsewhere (Mortensen et al., 1999). Mid-Permian conodonts and U-Pb age dates have been reported from this unit in the Vinton Lake map area (J. Mortensen, pers. comm., 2000).

UNCONFORMITY ON ALL THRUST SHEETS

EARLY PERMIAN

CAMPBELL RANGE SUCCESSION

- PC_{2b}** Medium to dark green basalt; generally massive, locally pillowed or fragmental; locally hematized and interbedded with reddish jasperoid siltite.
- PC_{2c}** Thin- to medium-bedded pink, green and white chert and lesser interbedded siliceous phyllite of the same colour.

UNCONFORMITY ON ALL THRUST SHEETS

FOOTWALL OF JULES CREEK THRUST

CARBONIFEROUS?

- C_{7v}** Green, pink and brown muscovite-quartz phyllite, locally with quartz and feldspar augen (felsic meta-volcanic rocks).
- C_{7cs}** Variably foliated dark grey and rarely pink phyllite; grey, white and rare pink ribbon chert; dark quartz sandstone, quartzofeldspathic sandstone, grit and conglomerate, and chert-pebble conglomerate.
- C_{7w}** Dark green, chlorite-feldspar-quartz phyllite (intermediate meta-volcanic rocks).
- C_{7l}** Massive grey crinoidal limestone.

HANGING WALL OF JULES CREEK THRUST

PENNSYLVANIAN

- P_d** Dark grey phyllite, chert, chert-pebble conglomerate, quartzofeldspathic and volcanolithic greywacke and conglomerate, diamictite and minor limestone; possibly correlates with unit C_{7cs}.

UNCONFORMITY ON BOTH HANGING WALL AND FOOTWALL OF MONEY CREEK THRUST

HANGING WALL OF MONEY CREEK THRUST

INTRUSIVE ROCKS

- MS_g** Generally unfoliated biotite-hornblende granite and quartz monzonite, locally faulted, chloritized and hematized. MS_g; strongly foliated and lineated mylonitic MS_g.
- D_{mp}** Mafic-poor, quartz-porphyrific granites. Cross-cutting relationships between granite and subvolcanic feeder dikes to Dr basalt flows suggests that granite and basalt are coeval and that granite is likely coeval with unit Dr.
- D_{um}** Brown-weathering, dark green to black variably serpentinized ultramafic rock. Gabbro and/or pyroxenite locally present. The unit is generally spatially associated, and inferred to be in intrusive contact, with Dr. The unit locally occurs as isolated klippe of the Money Creek Thrust sheet and along the Money Creek Thrust as light-coloured fan-scale talc-serpentine.

LATE DEVONIAN - EARLY MISSISSIPPIAN

- MS_g** Generally unfoliated biotite-hornblende granite and quartz monzonite, locally faulted, chloritized and hematized. MS_g; strongly foliated and lineated mylonitic MS_g.
- D_{mp}** Mafic-poor, quartz-porphyrific granites. Cross-cutting relationships between granite and subvolcanic feeder dikes to Dr basalt flows suggests that granite and basalt are coeval and that granite is likely coeval with unit Dr.
- D_{um}** Brown-weathering, dark green to black variably serpentinized ultramafic rock. Gabbro and/or pyroxenite locally present. The unit is generally spatially associated, and inferred to be in intrusive contact, with Dr. The unit locally occurs as isolated klippe of the Money Creek Thrust sheet and along the Money Creek Thrust as light-coloured fan-scale talc-serpentine.

LAYERED ROCKS

- CM_{cu}** Undifferentiated layered rocks of the hanging wall of the Money Creek Thrust and unit P_{ol}, includes intermediate to felsic metavolcanic rocks, carbonate, and dark chert, greywacke and phyllite.

PENNSYLVANIAN

- P_{lt}** Massive brown to grey quartz sandstone/quartzite.

UPPER MISSISSIPPIAN TO MID-PENNSYLVANIAN

- C_c** Massive grey bioclastic crinoidal limestone.

LOWER MISSISSIPPIAN

- M_{lv}** Green to white chlorite-muscovite-quartz phyllite of intermediate and lesser felsic compositions; locally quartz and feldspar augen present.

UPPER DEVONIAN

- D_r** Foliated and lineated chloritic phyllite; lesser carbonaceous phyllite, grey quartzite and marble. In roof pendant of MS_g (105G/8), unit Dr comprises tilted yet undeformed massive to pillowed basalt, mafic and green fragmental basalt, pink and green shale and cherty shale, tan greywacke and a middle member of pink to brown, locally quartz-porphyrific phyllite (Dr₁). Contradictory cross-cutting relationships between dikes feeding unit Dr basalt and dikes of D_{mp} feeding unit Dr mylonite indicate that they are approximately coeval. Outside of the pendant, the unit is foliated and lineated, and contains mappable bands of carbonaceous phyllite and quartzite, and grey marble (Dr₂).
- D_{trp}**
- D_{fr}**

FOOTWALL OF MONEY CREEK THRUST

WOLVERINE SUCCESSION

- M_{wb}** Chloritic phyllite occurring discontinuously beneath unit P_{ol}.
- M_{wi}** Thinly interbedded (cm-scale) massive to granular siliceous rock and light coloured phyllite (metasilt and exhalite). Siliceous rock is pale-colored, locally massive and bedded on metre-scale at base where associated with baritic iron formation; darker near top where intercalated phyllite is dark grey. One band of platy brown limestone in upper part of unit.
- M_{wl}** Tan, grey and brown, variably altered muscovite-quartz phyllite (M_{wr}) and quartz-feldspar augen phyllite (meta-porphyr).
- M_{wcp}** Carbonaceous phyllite and quartz sandstone.
- M_{wld}** Salt and pepper, grey to dark grey, coarse-grained feldspathic meta-sandstone, grit and carbonaceous phyllite.

UNCONFORMITY

INTRUSIVE ROCKS

- MS_g** Generally unfoliated biotite-hornblende granite and quartz monzonite, locally faulted, chloritized and hematized. MS_g; strongly foliated and lineated mylonitic MS_g.
- D_{mp}** Mafic-poor, quartz-porphyrific granites. Cross-cutting relationships between granite and subvolcanic feeder dikes to Dr basalt flows suggests that granite and basalt are coeval and that granite is likely coeval with unit Dr.
- D_{um}** Brown-weathering, dark green to black variably serpentinized ultramafic rock. Gabbro and/or pyroxenite locally present. The unit is generally spatially associated, and inferred to be in intrusive contact, with Dr. The unit is also locally surrounded by unit D_q, also presumably with intrusive contacts.

LATE DEVONIAN

- N_{ld}** Foliated hornblende-biotite meta-diorite.
- D_{mi}** Leuco-amphibolite (meta-gabbro) and amphibolite (meta-pyroxenite).
- D_{um}** Brown-weathering, dark green to black variably serpentinized ultramafic rock. The unit is generally spatially associated and inferred to be in intrusive contact with Dr. The unit is also locally surrounded by unit D_q, also presumably with intrusive contacts.

LAYERED ROCKS

UPPER DEVONIAN (TO LOWER MISSISSIPPIAN?)

- MS_g** Generally unfoliated biotite-hornblende granite and quartz monzonite, locally faulted, chloritized and hematized. MS_g; strongly foliated and lineated mylonitic MS_g.
- D_{mp}** Mafic-poor, quartz-porphyrific granites. Cross-cutting relationships between granite and subvolcanic feeder dikes to Dr basalt flows suggests that granite and basalt are coeval and that granite is likely coeval with unit Dr.
- D_{um}** Brown-weathering, dark green to black variably serpentinized ultramafic rock. Gabbro and/or pyroxenite locally present. The unit is generally spatially associated, and inferred to be in intrusive contact, with Dr. The unit is also locally surrounded by unit D_q, also presumably with intrusive contacts.

FOOTWALL OF JULES CREEK THRUST

- C_{7v}** Green, pink and brown muscovite-quartz phyllite, locally with quartz and feldspar augen (felsic meta-volcanic rocks).
- C_{7cs}** Variably foliated dark grey and rarely pink phyllite; grey, white and rare pink ribbon chert; dark quartz sandstone, quartzofeldspathic sandstone, grit and conglomerate, and chert-pebble conglomerate.
- C_{7w}** Dark green, chlorite-feldspar-quartz phyllite (intermediate meta-volcanic rocks).
- C_{7l}** Massive grey crinoidal limestone.

HANGING WALL OF JULES CREEK THRUST

- P_d** Dark grey phyllite, chert, chert-pebble conglomerate, quartzofeldspathic and volcanolithic greywacke and conglomerate, diamictite and minor limestone; possibly correlates with unit C_{7cs}.

UNCONFORMITY ON BOTH HANGING WALL AND FOOTWALL OF MONEY CREEK THRUST

- D_q** Interbedded tan- to brown-weathering biotite-muscovite-feldspar quartz psammitic schist and quartz-biotite-muscovite metapelite schist. Thin intervals of marble and calc-schist not mappable at 1:50 000-scale occur locally.
- D_{qm}** Grey to orange-brown micaceous marble, calcareous schist and lesser carbonaceous phyllite.
- D_m** Biotite-plagioclase-actinolite-chlorite schist similar to Dr found locally near top of unit D_q.
- D_v** Feldspar muscovite-quartz schist (felsic metavolcanic rock).

MINERAL OCCURRENCES Yukon MINFILE (2001)					
MINFILE No.	Symbol	Name(s)	Deposit Type	Status	Map Unit
105G 013	☉	HOO	Skim (Pb-Zn)	Drilled Prospect	
105G 014	★	CHER	Exploration Target	Anomaly	D _q
105G 015	☛	NAN	Volcanogenic	Anomaly	D _r
105G 016	☛	EL	Volcanogenic	Prospect	D _v
105G 017	☛	PICK	Vein (Ag-Pb)	Showing	
105G 018	☛	GRASS	Vein (W-Mo)	Showing	
105G 019	☉	BOOT	Skim (W)	Drilled Prospect	
105G 020	★	RILEY	Exploration Target	Anomaly	
105G 021	☛	ZIELINSKI	Vein (Zn-Pb-Cu)	Showing	
105G 022	★	OUR	Exploration Target	Unknown	
105G 023	★	GIL	Exploration Target	Unknown	
105G 024	☛	GOD	Volcanogenic	Anomaly	D _r
105G 025	☛	CHIBOLM	Exploration Target	Anomaly	
105G 026	☛	RIVERA	Volcanogenic	Drilled Prospect	D _r
105G 027	☛	LED	Vein (Cu-Au)	Prospect	D _r
105G 028	☛	GYP	Volcanogenic	Prospect	D _r /D _v
105G 029	☛	GEE	Vein (Pb)	Showing	
105G 030	★	PIT	Exploration Target	Showing	K _g
105G 031	☛	ROOF, FIRST BASE	Volcanogenic	Drilled Prospect	D _r /D _v
105G 032	☛	PACK	Volcanogenic	Drilled Prospect	D _r
105G 033	☛	TAK	Exploration Target	Anomaly	
105G 039	☛	VINCENT	Vein (Zn-Ag-Pb-Cu)	Showing	
105G 040	☛	JAY, FISHER	Volcanogenic	Drilled Prospect	M _{wi}
105G 041	★	FINLAYSON	Exploration Target	Anomaly	
105G 042	★	MCEVOY	Exploration Target	Anomaly	Mortensen, J.K., in (5)
105G 043	▲	BOT	Ultramafic (Aab)	Showing	P _{um}
105G 044	★	MINK	Exploration Target	Unknown	
105G 045	★	STARR	Exploration Target	Anomaly	
105G 046	★	TAG	Exploration Target	Unknown	
105G 047	★	HORTON	Exploration Target	Unknown	
105G 048	★	ELDORADO, PUP	Volcanogenic	Drilled Prospect	D _r
105G 049	★	COW	Exploration Target	Anomaly	
105G 050	★	ELK	Exploration Target	Unknown	
105G 051	☛	CHOW	Volcanogenic	Prospect	CM _{cu}
105G 052	☛	DOL	Volcanogenic	Prospect	D _r
105G 053	■	CAMPBELL	Coal	Anomaly	
105G 054	★	SUN	Exploration Target	Anomaly	
105G 055	☛	PHIL	Vein (Zn)	Drilled Prospect	
105G 056	☛	SEDEX (Zn-Pb)	Volcanogenic	Drilled Prospect	D _v
105G 057	☛	HODLE	Volcanogenic	Anomaly	
105G 058	★	CW	Exploration Target	Unknown	
105G 059	★	GEE, LAWN	Exploration Target	Unknown	
105G 060	★	FISH, IRENE, HARMAN	Skim (Zn-Cu)	Prospect	
105G 070	☛	ELECTRIC MINE, RENO	Volcanogenic	Prospect	CM _{cu}
105G 071	☉	MYDA	Skim (W)	Prospect	
105G 072	☛	WOLVERINE, FETISH	Volcanogenic	Deposit	M _{wi}
105G 073	▲	QUANDARY	Ultramafic (Ni-Cu ± Aab)	Anomaly	P _{um}
105G 074	▲	BEV	Ultramafic (Ni-Cu ± Aab)	Anomaly	D _{um}
105G 075	★	MONTOSH	Exploration Target	Anomaly	
105G 076	★	FREBERG	Volcanogenic	Prospect	D _r
105G 077	☛	FLIN	Volcanogenic	Drilled Prospect	D _v
105G 078	★	FLON	Exploration Target	Anomaly	
105G 079	★	HUDSON	Exploration Target	Anomaly	
105G 080	★	BEV, AIRBORNE	Exploration Target	Drilled Prospect	
105G 081	☛	MONEY, PNEUMONIA	Volcanogenic	Showing	D _k
105G 088	★	COOKIE	Exploration Target	Anomaly	
105G 089	★	HEINEL	Exploration Target	Anomaly	
105G 091	★	CARLOS, TUF	Exploration Target	Unknown	
105G 094	☛	DWONK	SEDEX (Ba)	Drilled Prospect	D _{ME}
105G 095	★	PEANUTS, SLATE	Exploration Target	Unknown	
105G 096	☉	FOG	Skim (W)	Showing	
105G 099	☛	BRENDEX	Volcanogenic	Prospect	D _r
105G 100	☛	EAGLE, HARRIS	Volcanogenic	Prospect	D _r
105G 101	★	ADDISON	Exploration Target	Drilled Prospect	
105G 102	☛	HOWDEE	Skim (Ag-Au)	Showing	
105G 104	☉	SANDERS	Skim (W)	Drilled Prospect	
105G 107	★	RIVER	Exploration Target	Anomaly	
105G 108	★	WOLV	Exploration Target	Unknown	
105G 109	★	COPLAND	Exploration Target	Unknown	
105G 110	★	ETS	Exploration Target	Anomaly	
105G 111	★	TOR	Exploration Target	Unknown	
105G 112	★	DESOTO	Exploration Target	Drilled Prospect	
105G 113	★	AZZUS	Exploration Target	Anomaly	
105G 114	▲	LADY LEE	Ultramafic (Lade)	Showing	D _{um}
105G 115	☛	ANDY, JEFF	Vein (Ag-Pb-Zn)	Prospect	
105G 116	★	CHARLIE	Exploration Target	Anomaly	
105G 117	☛	ABM, KUDZ ZE KAYAH, TAG	Volcanogenic	Deposit	D _k
105G 118	☛	ICE	Volcanogenic	Deposit	P _{cs}
105G 119	☛	SHOT	Volcanogenic	Showing	D _v
105G 120	☛	BLUE LINE	Volcanogenic	Showing	D _v
105G 121	☛	NET	Volcanogenic	Showing	D _v
105G 122	☛	OVERTIME	Volcanogenic	Showing	D _v
105G 123	☛	GOAL	Volcanogenic	Prospect	D _k
105G 124	★	RED LINE	Volcanogenic	Drilled Prospect	MS _g
105G 125	☛	GOON	Volcanogenic	Anomaly	D _v
105G 126	☛	RBI	Volcanogenic	Drilled Prospect	D _k
105G 127	☛	COBB	Volcanogenic	Showing	D _k
105G 128	★	DOG	Exploration Target	Anomaly	
105G 129	★	MAJOR	Exploration Target	Anomaly	
105G 130	★	LEAGUE	Volcanogenic	Drilled Prospect	D _k
105G 131	★	DOT	Exploration Target	Anomaly	
105G 132	★	NECK	Exploration Target	Anomaly	
105G 133	☛	ARECA 18	Volcanogenic	Drilled Prospect	D _k
105G 134	☛	PUCK	Volcanogenic	Drilled Prospect	M _{wi}
105G 139	☛	ON	Volcanogenic	Drilled Prospect	D _k
105G 140	☛	NAD	Volcanogenic	Drilled Prospect	M _{wi}
105G 142	☛	FIRST BASE	Volcanogenic	Anomaly	D _v
105G 143	☛	GRAP	Volcanogenic	Deposit	D _k

● ISOTOPIC AGE DATES							
	Sample	Date ± 2 sigma	Mineral	Comments	Reference		
E _b	1	LJ2206854	48.6 ± 3.4 Ma	whole rock	igneous crystallization age	(2)	
	2	LJ0908851	55.3 ± 4 Ma	whole rock	igneous crystallization age	(2)	
	3	LJ0908853	55.4 ± 4 Ma	whole rock	igneous crystallization age	(2)	
	4	LJ017853	46.4 ± 4.6 Ma	whole rock	igneous crystallization age	(2)	
	5	RS225	58.2 ± 4.6 Ma	whole rock	igneous crystallization age	(2)	
K _g	6	ARG-33	112.2 ± 0.5 Ma	monazite	igneous crystallization age	Mortensen, J.K., in (5)	
	7	KG-31	113.0 ± 1.7 Ma	monazite	igneous crystallization age	Mortensen, J.K., in (5)	
	8	KG-31	107.7 ± 5.5 Ma	zircon	Mortensen, J.K., in (5)		
	9	KG-31	103.8 ± 2.2 Ma	muscovite	igneous cooling age	Mortensen, J.K., in (5)	
	10	KG-31	103.4 ± 1.8 Ma	biotite	igneous cooling age	Mortensen, J.K., in (5)	
	11	KM-07	109.9 ± 0.5 Ma	monazite	igneous crystallization age	Mortensen, J.K., in (5)	
	12	KP-09	113.8 ± 1.0 Ma	monazite	igneous crystallization age	Mortensen, J.K., in (5)	
	13	MP-18	112.4 ± 7 Ma	monazite	igneous crystallization age	Mortensen, J.K., in (5)	
	14	MP-18	111.6 ± 7 Ma	zircon	igneous crystallization age	Mortensen, J.K., in (5)	
	15	MLB-89-321	90.6 ± 1.4 Ma	muscovite	igneous cooling age	(1)	
	16	MLB-89-321	100 ± 2.0 Ma	biotite	excess Ar	(1)	
	J _g	17	DM-04	185.5 ± 1.0 Ma	staurolite	igneous cooling age	Mortensen, J.K., in (5)
18		DM-04	187 ± 2.0 Ma	zircon	igneous crystallization age	Mortensen, J.K., in (5)	
19		MLB-89-322a	180.9 ± 2.6 Ma	hornblende	igneous cooling age	(1)	
Pg	20	GL-10	274.3 ± 0.5 Ma	zircon	igneous crystallization age	(4)	
	21	98DM-QB	273.4 ± 2.1 Ma	zircon	igneous crystallization age	Mortensen and Murphy, unpub.	
M _g /M _g g	22	AG-08	343 ± 7 Ma	zircon	analytically uncertain	Mortensen, J.K., in (5)	
	23	AG-48	342 +7/-18.0 Ma	zircon	igneous crystallization age	Mortensen, J.K., in (5)	
	24	GG-19	360.0 ± 1.0 Ma	zircon	igneous crystallization age	Mortensen, J.K., in (5)	
	25	GG-20	ca. 360 Ma	zircon	sample plots in unit MWc? could be quartzofeldspathic melanogranite derived from unit MGg	Mortensen, J.K., in (5)	
	26	98DM-119	357.3 ± 2.8 Ma	zircon	igneous crystallization age; 4 point discordance; body cuts fabric	Mortensen and Murphy, unpub.	
	27	98DM-88	361.1 ± 3.3 Ma	zircon	igneous crystallization age	Mortensen and Murphy, unpub.	
	M _{Mt} /M _{Mv} Q	28	AS-50	ca. 360 Ma	zircon	igneous crystallization age	Mortensen, J.K., in (5)
		29	P98-69	346.6 ± 2.2 Ma	zircon	igneous crystallization age	Piercey and Mortensen, unpub.
		30	FR-21	356 ± 1.0 Ma	zircon	igneous crystallization age	Mortensen, J.K., in (5)
	DK	31	FR-16	358.8 ± 9.0 Ma	zircon		Mortensen, J.K., in (5)
32		FR-49	351 ± 1.7 Ma	zircon	sequence intruded by MGg as old as 360 so age too young	Mortensen, J.K., in (5)	
33		P98-KZK	356.9 ± 5.3 Ma	zircon	- - - - -	Piercey and Mortensen, unpub.	
D _{ht}	34	HD-35	364.5 ± 2.5 Ma	zircon		Mortensen, J.K., in (5)	
	35	98DM-65	366.3 ± 10.2 Ma	zircon	igneous crystallization age igneous crystallization age	Mortensen and Murphy, unpub.	
D _{ap}	36	QP-30	360.5 ± 1.9 Ma		igneous crystallization age	(4)	
	37	98DM-GRD	347.3 ± 3.7 Ma	zircon	igneous crystallization age	Mortensen and Murphy, unpub.	
D _v	38	GM-11	ca. 360 Ma	zircon		Mortensen, J.K., in (5)	
	39	GM-12	ca. 360 Ma	zircon	analytical problems analytical problems	Mortensen, J.K., in (5)	
Metamorphic Cooling Ages	40	AG-08	112.2 ± 0.5 Ma	monazite		Mortensen, J.K., in (5)	
	41	AG-08	105 ± 2.0 Ma	w-muscovite	unit MGag	Mortensen, J.K., in (5)	
	42	GG-30	ca. 112 Ma	monazite	unit MGg	Mortensen, J.K., in (5)	
	43	MLB-89-320	104.6 ± 1.8 Ma	monazite	possibly unit MWc1	(1)	
	44	MLB-89-326a	104.6 ± 2.0 Ma	biotite	unit MGag	(1)	
	45	MLB-89-328	113.4 ± 1.8 Ma	muscovite	unit MGg	(1)	
	46	WB-64-207-2	101 ± 5 Ma	biotite	unit MGag	(7)	
	47	96JT22-2	109.9 ± 1.3 Ma	biotite	unit DF	Murphy and Villeneuve, unpub.	
	48	98DM-6	113.2 ± 1.1 Ma	biotite	unit MGg	Murphy and Villeneuve, unpub.	
	49	98DM-95	112.3 ± 1.09 Ma	biotite	unit DF	Murphy and Villeneuve, unpub.	
	50	97DM-160	110.9 ± 1.12 Ma	biotite	unit DK	Murphy and Villeneuve, unpub.	
	51	97DM-182	123.5 ± 1.32 Ma	hornblende	unit Dqm	Murphy and Villeneuve, unpub.	
	52	97DM-275	108.6 ± 1.08 Ma	biotite	unit DF	Murphy and Villeneuve, unpub.	
	53	97DM-330	110.0 ± 1.08 Ma	biotite	unit DF	Murphy and Villeneuve, unpub.	
	54	97DM-330	140.0 ± 1.49 Ma	hornblende	unit DF	Murphy and Villeneuve, unpub.	
	55	98DM-201	107.5 ± 1.0 Ma	biotite	unit DK	Murphy and Villeneuve, unpub.	
	56	P98-136	106.5 ± 1.04 Ma	biotite	unit DK	Murphy and Villeneuve, unpub.	
	REFERENCES - ISOTOPIC AGE DATES						
(1) Hurl, P.A. and Roddick, J.C., 1992. A compilation of R-Ar ages. Report 21: In Radiogenic Age and							