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# GEOLOGY AND MINERAL OCCURRENCES OF THE DOWNIE CREEK AREA, NORTHERN SELKIRK MOUNTAINS

NTS 82M/8 & PART OF 1

J. M. Logan, M. Colpron and B. J. Johnson

Scale 1:50 000

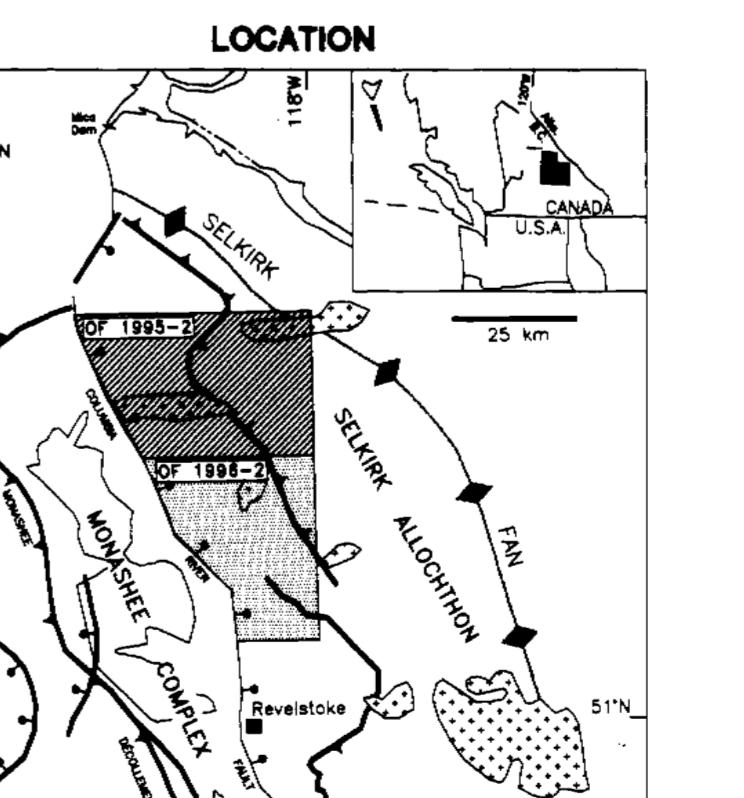
1000 2000 300

## LEGEND

## **SYMBOLS**

- |  |                 |
|--|-----------------|
| Geological contact (defined, approximate, assumed)   | —               |
| Bedding (inclined, vertical, upright, overturned)  | — + + + +       |
| Compositional layering (inclined, vertical)  | —               |
| Igneous foliation (inclined)   | —               |
| Dominant foliation (inclined, vertical)  | — —             |
| First crenulation cleavage (inclined, vertical)  | → → →           |
| Second crenulation cleavage (inclined, vertical)   | → → →           |
| Mylonitic foliation (inclined, vertical)   | — —             |
| Intersection lineation (vergence determined by bedding/cleavage:<br>unknown, counterclockwise, clockwise, symmetrical) | → ↗ ↘ ↙         |
| First crenulation lineation (plunge indicated)   | →               |
| Second crenulation lineation (plunge indicated)  | →               |
| Axis of tight-isoclinal folds (vergence unknown,<br>counterclockwise, clockwise, symmetrical)                          | → ↗ ↘ ↙         |
| Axis of late, open folds (verge:<br>counterclockwise, clockwise, symmetrical)  | → → → →         |
| Mineral or stretching lineation (plunge indicated)   | →               |
| Apparent dip of bedding (in cross sections: top<br>unknown, top known)   | — ↑             |
| Apparent dip of dominant foliation (in cross sections)   | ←               |
| Extension fault; downthrown side indicated<br>(defined, approximate, assumed)  | — ● ● ● ● ● ● ● |
| Thrust fault; teeth indicate upthrust side<br>(defined, approximate, assumed)  | — ▼ ▼ ▼ ▼ ▼ ▼   |
| Axial trace of overturned antiform, synform  | — U U U U       |
| Axial trace of upright antiform, synform   | —               |
| Archaeocyathid locality  | ②               |

## BIBLIOGRAPHY



ISOTOPIC DATA			
	METHOD	AGE	SOURCE
Pass Creek pluton	U/Pb monazite	$168 \pm 3$ Ma	Brown et al. (1992) GSC Paper 91-2
Downie pluton *	Rb/Sr whole rock	$66 \pm 3$ Ma	R.L. Armstrong - database (collected by L.S. Lane)
Downie Creek gneiss	U/Pb zircon	$354 \pm 1$ Ma	Logan and Friedman (1997)
Amphibolite (hangingwall CRF)	K/Ar hornblende	$104 \pm 4$ Ma	R.L. Armstrong - database (collected by L.S. Lane)
Diabase (hangingwall CRF)	K/Ar whole rock	$55 \pm 2$ Ma	R.L. Armstrong - database (collected by L.S. Lane)
Lamprophyre * (footwall CRF)	K/Ar whole rock	$51 \pm 2$ Ma	R.L. Armstrong - database (collected by R.L. Brown)