

LEGEND - Nelson Map-Area East Half

PURCELL MOUNTAINS

CENOZOIC	QUATERNARY	Qd	Drift covered; till, alluvium, colluvium	
	PLEISTOCENE AND RECENT			
	EOCENE(?)	Esy	Syenite, shonkinite	
MESOZOIC	CRETACEOUS(?)	K(?)hb	Hornblende and diorite	
	CRETACEOUS	Kgr	Discrete shear zones and strong foliation	
		Kgr <sub>1</sub>	Granite with accessory garnet	
		Kgr <sub>2</sub>	Granite with many inclusions of metasediments	
		Kgr <sub>3</sub>	Extensive pegmatite (and aplite)	
		Kgd	Biotite granodiorite	
		Kgr <sub>4</sub>	Biotite granite	
		Kgr <sub>5</sub>	Biotite leucogranite	
		Kgr <sub>6</sub>	Leucocratic granite with biotite and muscovite Kgr <sub>6a</sub> - foliated	
		Kgr <sub>7</sub>	Biotite granite with megacrysts of Potash Feldspar	
MESOZOIC	JURASSIC(?)	J(?)gr	Leucogranite sills and lenses (foliated and/or lineated)	
		J(?)gd <sub>3</sub>	Biotite-hornblende granodiorite with megacrysts of potash feldspar	
	JURASSIC	Jgd <sub>2</sub>	Biotite-hornblende (± epidote) granodiorite	
		Jgd <sub>1</sub>	Epidote-biotite granodiorite	
MESOZOIC	JURASSIC(?)	Jub	Ultrabasic, serpentinized peridotite	
PALEOZOIC	CAMBRIAN TO MISSISSIPPIAN	LARDEAU GROUP (P <sub>1</sub> )		
		P <sub>1</sub>	INDEX FORMATION: undivided	
		P <sub>13</sub>	Biotite-quartz-feldspar (± garnet) gneiss; amphibolite	
		P <sub>12</sub>	Marble with calc-silicate gneiss; amphibolite and schist layers; micaceous quartzite; P <sub>12a</sub> -calcite marble	
		P <sub>11</sub>	Hornblende gneiss, amphibolite; cc-calcite marble P <sub>11a</sub> - biotite-muscovite schist and gneiss	
	CAMBRIAN	LOWER CAMBRIAN	€bm	BADSHOT-MOHICAN FORMATION: calcite marble, dolomite; calcareous schist, quartzite
		LOWER CAMBRIAN AND HADRYNIAN(?)	€h	HAMILL GROUP: undivided
			€h <sub>4</sub>	Dark quartzite; quartz-rich schist
			€h <sub>3</sub>	White quartzite; q-white quartzite, but may not be €h <sub>3</sub>
			€h <sub>2</sub>	Muscovite-biotite-chlorite schist, quartzite, siltstone €h <sub>2a</sub> - V, Y, Y' epidote-chlorite-amphibolite gneiss (greenstone?) €h <sub>2b</sub> - marble
			€h <sub>1b</sub> €h <sub>1a</sub>	Massive white quartzite; micaceous quartzite Pebbly and feldspathic quartzite €h <sub>1c</sub> - pebble and cobble conglomerate €h <sub>1d</sub> - calcitic and dolomitic marble.
		HADRYNIAN	WINDERMERE SUPERGROUP (Hh, Ht)	
			Hh	HORSETHIEF CREEK GROUP: Hh <sub>c</sub> - Grey marble Hh <sub>b</sub> - Pebble conglomerate Hh <sub>a</sub> - Cobble conglomerate
		Hh <sub>7</sub>	Quartzite; Hh <sub>7a</sub> - cobble conglomerate	
		Hh <sub>6</sub>	Phyllite; Hh <sub>6a</sub> - cobble conglomerate	
		Hh <sub>5</sub>	Grey limestone and marble	
		Hh <sub>4</sub>	Phyllite; Hh <sub>4a</sub> - cobble conglomerate	
		Hh <sub>3</sub>	Phyllite, grit and quartzite; Hh <sub>3a</sub> - pebble conglomerate	
		Hh <sub>2</sub>	White quartzite	
		Hh <sub>1</sub>	Phyllite	
		Ht	TOBY FORMATION: polymict conglomerate, conglomeratic dolomite, conglomeratic pelite	
	HELIKIAN	Hgr	Granite, pegmatite	
PROTEROZOIC	PURCELL SUPERGROUP (Hmn to H <sub>a</sub> )	Hmn	MOUNT NELSON FORMATION: undivided	
		Hmn <sub>4</sub>	Dolomite, white or dark grey, buff or brown weathering	
		Hmn <sub>3</sub>	Black argillite and argillaceous grey siltstone, thin-bedded	
		Hmn <sub>2</sub>	Dolomite, dolomitic siltstone, argillite	
		Hmn <sub>1</sub>	white or green, thick-bedded quartzite	
		Hdc	DUTCH CREEK FORMATION: undivided	
		Hdc <sub>2</sub>	UPPER: siltstone, argillite, quartzite 2a-carbonate bearing beds and dolomite	
		Hdc <sub>1</sub>	LOWER: black argillite and argillaceous grey siltstone, thinly interbedded; 1a-thin successions of dolomite and/or white quartzite	
		Hm	MOYIE INTRUSIONS: meta-diorite, meta-quartz diorite	
		Hk	KITCHENER FORMATION: undivided	
		Hk <sub>3</sub>	Red weathering dolomite, black argillite, quartzite	
		Hk <sub>2</sub>	Black argillite, grey siltstone, tan siltstone all thinly interbedded; rare carbonate bearing horizons	
		Hk <sub>1</sub>	Dolomitic siltstone, dolomite, green argillite, black argillite b-black argillite; buff dolomite and dolomitic siltstone, white siltstone a-green argillite, buff dolomitic siltstone, dolomite	
	Hc	CRESTON FORMATION: undivided		
	Hc <sub>3</sub>	UPPER CRESTON: deep green siltstone, light and dark, thinly laminated argillite and siltstone; purple argillite.		
	Hc <sub>2</sub>	MIDDLE CRESTON: grey, blocky siltstone and very fine quartzite in beds to 30 cm or more, commonly ripple marked, and commonly purple lined or mottled; black to deep purple argillite and thin-bedded siltstone; white, medium-grained quartzite commonly associated with purple mud-chip breccias.		
	Hc <sub>1</sub>	LOWER CRESTON: thin-bedded dark argillite and grey siltstone characterized by irregular pinching and swelling beds, ripple cross-lamination, mud-cracks, minor cut and fill features; green siltstone with thin interbeds of argillite.		
	H <sub>a</sub>	ALDRIDGE FORMATION: undivided		
	H <sub>a3</sub>	UPPER ALDRIDGE: rusty weathering, black argillite and silty argillite, fine, regular, white laminae of siltstone.		
	H <sub>a2</sub>	MIDDLE ALDRIDGE: light grey weathering, grey quartzite and siltstone in beds 10 to 70 cm; interbeds of dark argillite and thin bedded alternating black argillite and grey siltstone.		
	H <sub>a1</sub>	LOWER ALDRIDGE: rusty weathering, laminated or cross-bedded quartzite, argillite and silty argillite.		

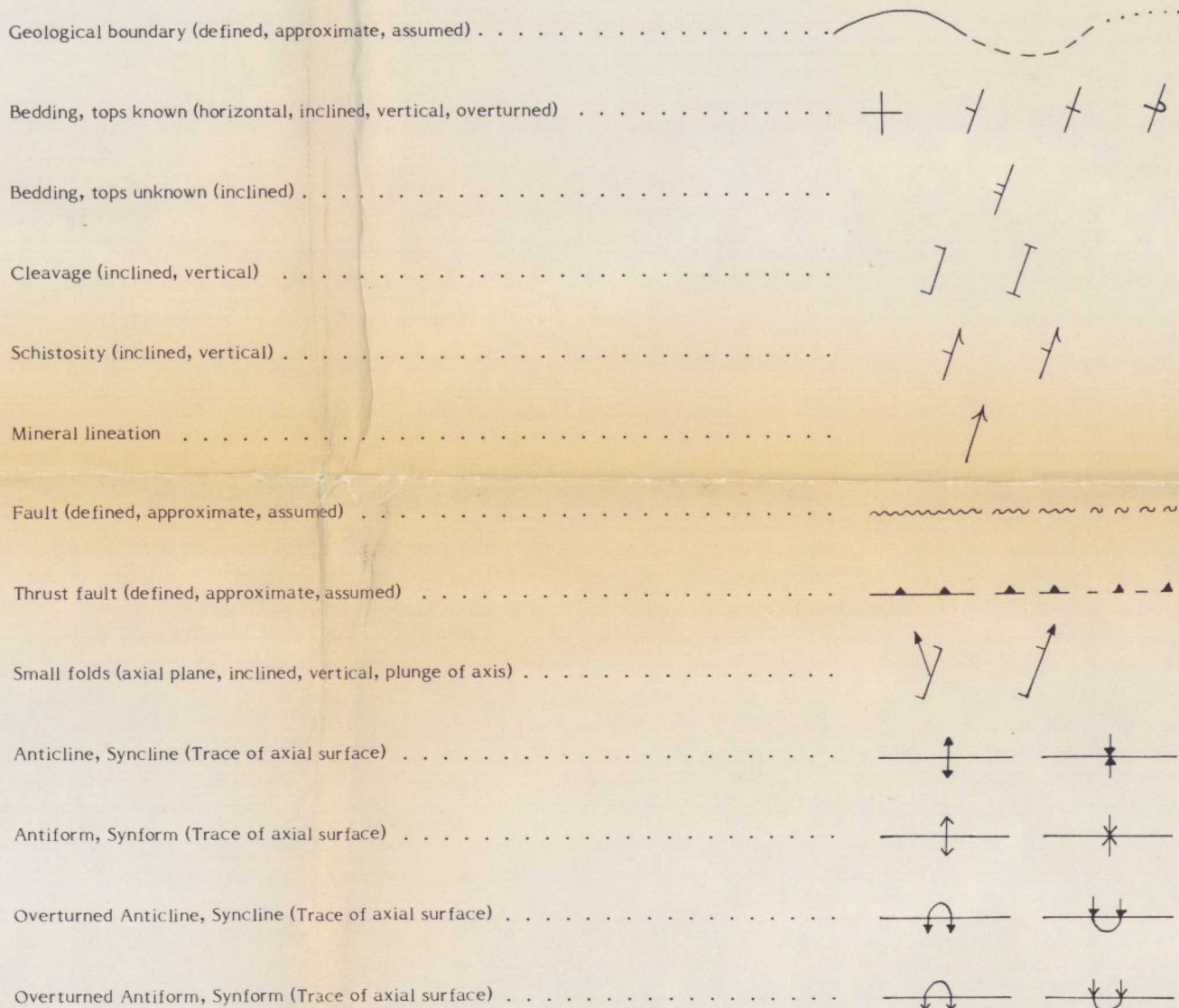
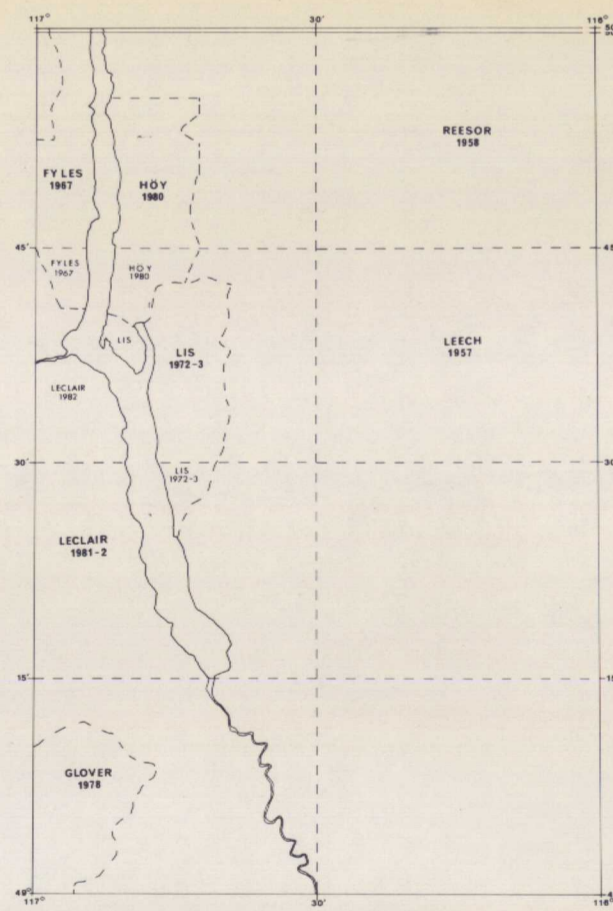
SELKIRK MOUNTAINS

MESOZOIC	TRIASSIC AND (?)JURASSIC	SLOCAN GROUP	Ks	Limestone, dolomite, argillite and slate
MESOZOIC	PERMIAN AND/OR TRIASSIC	KASLO GROUP	Pk k	Greenstone, chlorite and hornblende schist and gneiss
MESOZOIC	MISSISSIPPIAN AND (?)LATER	MILFORD GROUP	Mm	Fine-grained grey schist, grey phyllite and argillite, limestone and quartzite
MESOZOIC	CAMBRIAN TO MISSISSIPPIAN	LARDEAU GROUP		
		P <sub>1</sub>	INDEX FORMATION: undivided (North of West Arm only)	
		P <sub>13</sub>	Micaceous quartzite and grit	
		P <sub>12</sub>	Grey phyllite	
		P <sub>11</sub>	Mica schist and silicate marble	
MESOZOIC	CAMBRIAN	LOWER CAMBRIAN	€bm	BADSHOT-MOHICAN FORMATION: calcite marble, dolomite; calcareous schist, quartzite
MESOZOIC	LOWER CAMBRIAN AND HADRYNIAN(?)	HAMILL GROUP	€qr	QUARTZITE RANGE FORMATION: undivided
		€qr <sub>4</sub>	White and bluish-green quartzite; argillite	
		€qr <sub>3</sub>	Conglomerate	
		€qr <sub>2</sub>	Brown micaceous quartzite	
		€qr <sub>1</sub>	White, green and pink orthoquartzite	
MESOZOIC	HADRYNIAN	WINDERMERE SUPERGROUP (Hts to Hm)		
		Hts	HORSETHIEF CREEK GROUP (Hts to Hm)	
		Hts <sub>3</sub>	THREE SISTERS FORMATION: undivided	
		Hts <sub>2</sub>	Quartzite; grit	
		Hts <sub>1</sub>	Polymict conglomerate	
		Hm	MONK FORMATION: undivided	
		Hm <sub>3</sub>	Grey phyllite; black graphitic phyllite	
		Hm <sub>2</sub>	Laminated limestone	
		Hm <sub>1</sub>	Grey phyllite; quartzite	
MESOZOIC		Hiv	IRENE VOLCANIC FORMATION: Massive to schistose greenstone, mafic tuff; phyllite. xxxxx Dolomite horizon	
MESOZOIC		Ht	TOBY FORMATION: Polymict conglomerate; conglomerate quartzite and pelite; quartzite	

PURCELL MOUNTAINS (Southeast of St. Mary-Hall Lake Fault)

CAMBRIAN

LOWER CAMBRIAN (Not found on these maps)	€e	EAGER FORMATION: grey argillite and limy argillite, highly cleaved; siltstone and silty argillite; near base, thin bedded, buff weathering silty limestone and greenish grey argillite; rare bioclastic beds.
	€c	CRANBROOK FORMATION: siliceous, white, purple and green quartzite; purple argillite and argillaceous quartzite; gritty quartzite, pebble and cobble conglomerate.
LOWER CAMBRIAN (?)	€c <sub>1</sub>	CRANBROOK FORMATION?: Conglomerate, angular to rounded clasts to cobble size derived from Purcell strata of Middle Creston and younger rocks.



J.E. REESOR JAN. 1983

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