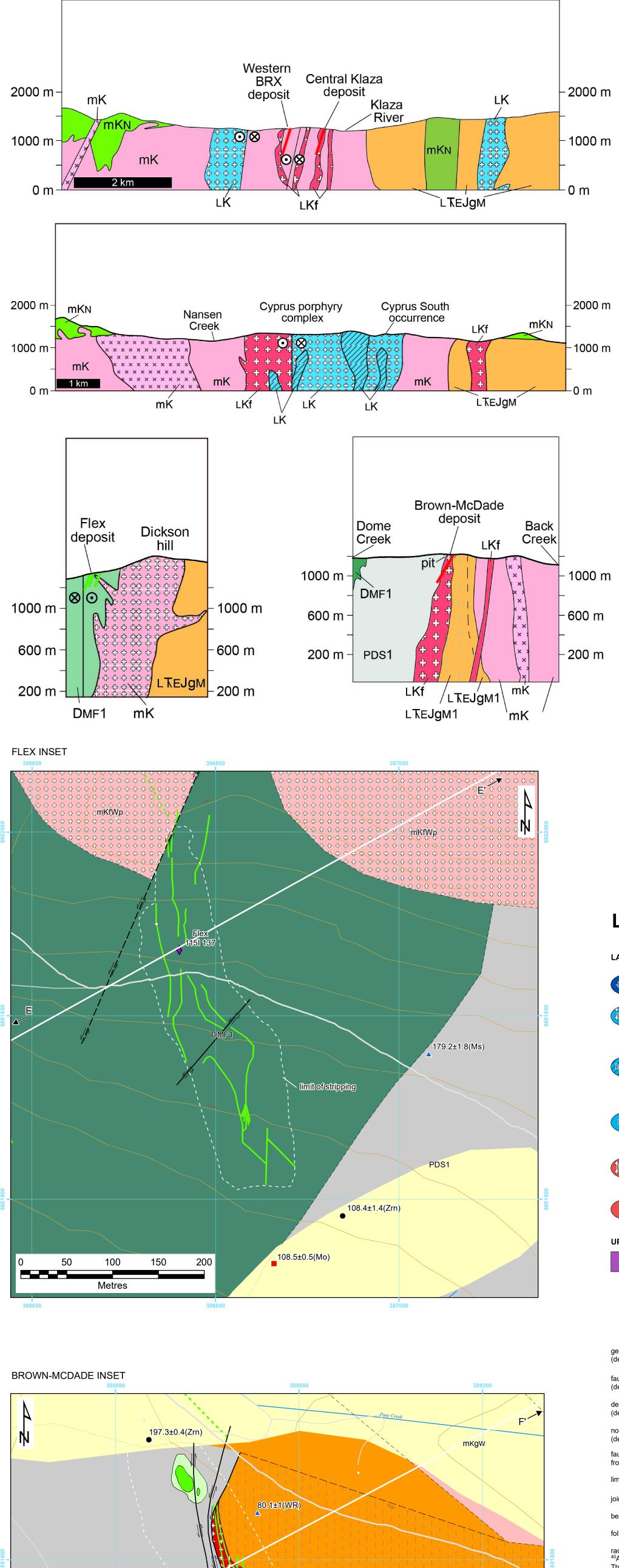
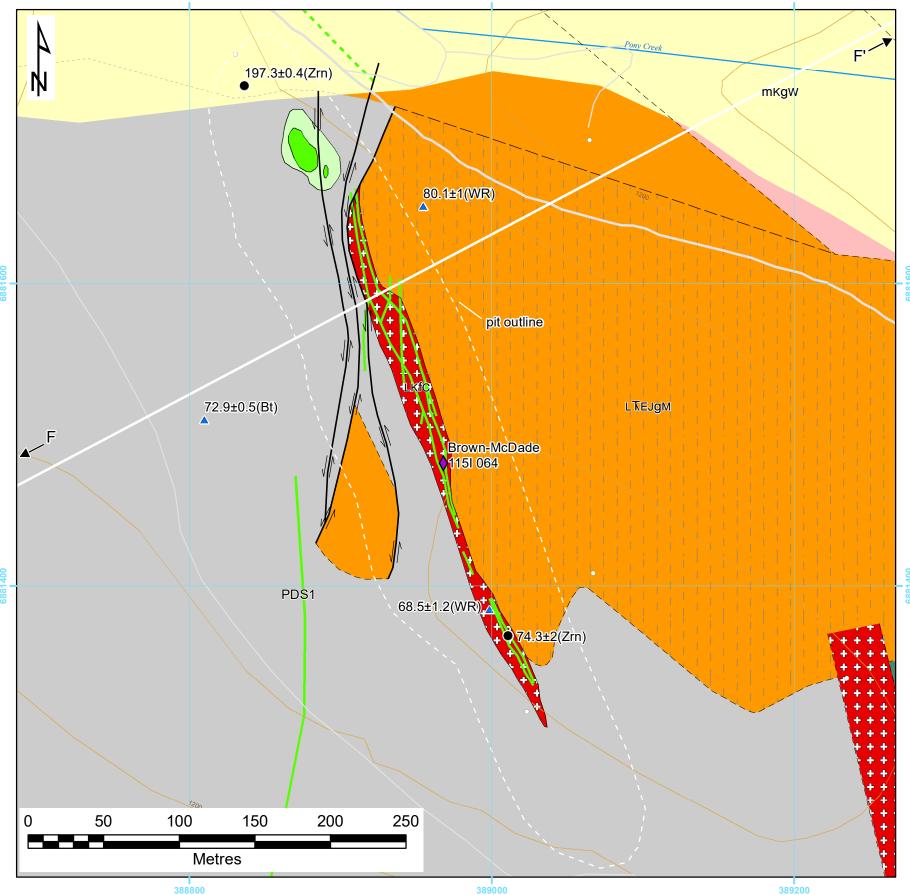
MOUNT NANSEN PORPHYRY DISTRICT INSET



NATURAL RESOURCES CANADA Copyright Her Majesty the Queen in Right of Canada

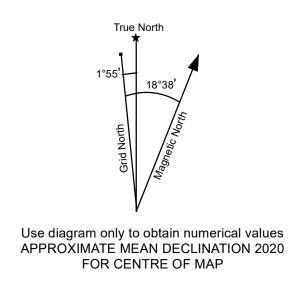
ONE THOUSAND METRE GRID Universal Transverse Mercator Projection North American Datum 1983 Zone 8





MOUNT NANSEN YUKON SCALE 1:20 000 CONTOUR INTERVAL 20 metres Elevation in metres above mean sea level

Kilometres



MINFILE	NAME	DEPOSIT	STATUS	HOST LITHOLOGY	COMMODITY	MINERALIZATION AGE	LATITUDE	LONGITUDE
115I 016	Val	TYPE Figure 1 /al Vein/breccia Showing Granodiorite		Gold, Lead, Silver Late Cretaceous?		62.07699	-137.13679	
					Gold, Silver, Lead,	Early Cretaceous; 109 ± 0.7 Ma OR		
115 064	Brown-McDade	Epithermal	Past Producer	Granodiorite in north and schist/gneiss in south	Copper, Zinc	Late Cretaceous; 74.3 ± 2 Ma, 72.9 ± 0.5 Ma	62.04922	-137.12355
1151 065	Webber	Epithermal	Deposit	Schist and gneiss	Silver, Gold	Early Cretaceous; 107 ± 0.9 Ma	62.05404	-137.17349
115 066	Cyprus	Porphyry	Drilled Prospect	Quartz feldspar porphyry	Copper, Molybdenum, Gold	Late Cretaceous; 71.1 ± 0.3 Ma	62.09596	-137.17392
115 067	Klaza	Epithermal	Deposit	Granodiorite	Copper, Gold, Zinc, Silver, Lead	Late Cretaceous; 74 to 71 Ma	62.13154	-137.25379
1151 068	Maverick	Vein/breccia	Drilled Prospect	Syenite	Gold, Silver	Unknown	62.14655	-137.16087
115 080	Rico	Epigenetic	Anomaly	Granodiorite	Copper, Lead, Zinc,	Uknown	62.14189	-137.33466
115 084	Lonely	Vein/breccia	Showing	Quartz feldspar porphyry	Gold Copper, Silver, Gold	Late Cretaceous?	62.07534	-137.32722
115 085	Car	Vein/breccia	Showing	Rhyolite to dacite and granodiorite felsenmeer	Copper, Tungsten,	Unknown	62.08888	-137.02666
			Ū		Lead, Silver, Gold			
115 086	Rowlinson	Vein/breccia	Showing	Biotite schist	Silver, Gold Copper, Gold, Zinc,	Unknown	62.13932	-136.96440
115 093	Eliza S	Epithermal	Drilled Prospect	Quartz diorite, schist and gneiss, minor andesite (along the edge of a volcanic-granodiorite contact)	Molybdenum, Silver, Lead	Unknown	62.07874	-137.18265
1151 096	Rusk	Vein/breccia	Showing	Rhyolite to dacite(near quartz feldspar porphyry plug contact)Copper, Gold, Silver, Molybdenum, LeadLate Cretaceous; 65.0 ± 0.8 Ma to 70.5 ± 2.2 Ma		62.08231	-137.25357	
115 110	Row	Epigenetic	Anomaly	Biotite schist	Copper, Zinc, Silver, Lead	Unknown	62.15361	-137.09500
115 117	Dic	Epithermal	Drilled Prospect	Granodiorite (near andesite contact)	Copper, Zinc, Lead, Silver, Gold	Late Cretaceous	62.11359	-137.25123
115 119	Dows	Vein/breccia	Drilled Prospect	Feldspar porphyry dykes cutting schist	Gold	Late Cretaceous?	62.04179	-137.24330
115 122	Grizzly	Vein/breccia	Showing	Granodiorite to diorite gneiss	Gold, Tungsten, Silver	Late Cretaceous?	62.11216	-137.08217
115 123	Ang	Vein/breccia	Showing	Quartz feldspar porphyry cutting schist	Gold	Late Cretaceous?	62.05555	-137.05055
115 133	Dickson	Epithermal	Drilled	Granodiorite	Gold, Silver, Copper	Early Cretaceous?	62.05839	-137.14629
115 134	Orloff-King	Epithermal	Prospect Deposit	Andesite	Gold, Silver, Copper	Unknown	62.06336	-137.16306
115 135	Spud	Vein/breccia	Showing	Andesite	Gold, Silver, Copper	Unknown	62.06044	-137.16090
115 136	Vince	Vein/beccia	Drilled Prospect	Schist and gneiss	Gold, Silver, Copper	Early Cretaceous; 108.3 ± 07 Ma	62.05127	-137.13262
115 137	Flex	Epithermal	Deposit	Schist and gniess, mineralization within highly altered and bx veins	Gold, Silver, Copper, Lead , Zinc	Early Cretaceous; 108.5 ± 0.5 Ma	62.05207	-137.16598
115 138	Livestia	–		Schist and gneiss		Unknown	62.04789	-137.15339
1101100	Huestis	Epithermal	Past Producer		Gold, Silver, Copper	UNKNOWN	02.04709	-137.13339
115 138	Mill	Epithermal	Past Producer Prospect	Schist and gneiss	Gold, Silver, Copper	Unknown	62.04308	-137.14599
					Gold, Silver, Copper Copper, Molybdenum	Unknown		
115 139	Mill	Epithermal	Prospect Showing Showing	Schist and gneiss	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc	Unknown	62.04308	-137.14599
115I 139 115I 140	Mill Cyprus South	Epithermal Porphyry	Prospect Showing Showing Drilled Prospect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc	Unknown Late Cretaceous?	62.04308 62.08851	-137.14599 -137.15914
115 139 115 140 115 141	Mill Cyprus South Old Timer	Epithermal Porphyry Vein/breccia	Prospect Showing Showing Drilled	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma	62.04308 62.08851 62.08992	-137.14599 -137.15914 -137.19750
115 139 115 140 115 141 115 142	Mill Cyprus South Old Timer Eliza N	Epithermal Porphyry Vein/breccia Epithermal	Prospect Showing Showing Drilled Prospect Drilled Prospect Showing	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous?	62.04308 62.08851 62.08992 62.08308	-137.14599 -137.15914 -137.19750 -137.18575
115 139 115 140 115 141 115 142 115 143	Mill Cyprus South Old Timer Eliza N Eliza E	Epithermal Porphyry Vein/breccia Epithermal Epithermal	Prospect Showing Showing Drilled Prospect Drilled Prospect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous?	62.04308 62.08851 62.08992 62.08308 62.08582	-137.14599 -137.15914 -137.19750 -137.18575 -137.19687
115 139 115 140 115 141 115 142 115 143 115 144	Mill Cyprus South Old Timer Eliza N Eliza E Transition	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry	Prospect Showing Showing Drilled Prospect Drilled Prospect Showing Drilled Prospect Showing	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper,	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous?	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453	-137.14599 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302
 115I 139 115I 140 115I 141 115I 142 115I 143 115I 144 115I 145 	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia	Prospect Showing Showing Drilled Prospect Drilled Prospect Showing Drilled Prospect Showing Drilled Prospect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead,	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous?	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691	-137.14599 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135
115 139 115 140 115 141 115 142 115 143 115 144 115 145 115 146	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia	Prospect Showing Showing Drilled Prospect Drilled Prospect Showing Drilled Prospect Showing Drilled	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous?	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070	-137.14599 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609
 115 139 115 140 115 141 115 142 115 143 115 144 115 145 115 146 115 147 	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia	Prospect Showing Showing Drilled Prospect Drilled Prospect Showing Drilled Prospect Showing Drilled Prospect Drilled Prospect Drilled Prospect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous?	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331	-137.14599 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963
115 139 115 140 115 141 115 142 115 142 115 143 115 144 115 145 115 145 115 147 115 149	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Vein/breccia Epithermal	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDepositDrilledProspect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver, Copper	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous?	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485	-137.14599 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.24794
 115 139 115 140 115 141 115 142 115 143 115 143 115 144 115 145 115 146 115 147 115 149 115 150 	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc BRX	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Vein/breccia Epithermal Epithermal	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite Granodiorite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver, Lead, Zinc	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous?	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485 62.12272	-137.14599 -137.15914 -137.19750 -137.18575 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.24794 -137.25782
1151 139 1151 140 1151 141 1151 142 1151 143 1151 143 1151 144 1151 145 1151 146 1151 147 1151 149 1151 150 1151 151 1151 152 1151 153	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc BRX BYG Chevron Pika	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Epithermal Epithermal Epithermal Epithermal	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite Granodiorite Granodiorite Granodiorite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver, Copper Gold, Silver, Lead, Zinc, Copper Gold, Silver Gold, Silver Gold, Silver	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485 62.12272 62.12950 62.11903 62.11812	-137.14599 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.24794 -137.25782 -137.25766 -137.27565 -137.24451
115 139 115 140 115 141 115 142 115 142 115 143 115 143 115 144 115 145 115 145 115 147 115 149 115 150 115 151 115 152 115 153 115 154	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc BRX BYG Chevron Pika Stroshein	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Vein/breccia Epithermal Epithermal Epithermal Epithermal Epithermal	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver, Lead, Zinc, Copper Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485 62.12272 62.12950 62.11903 62.11812 62.11760	-137.14599 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.27963 -137.27565 -137.25782 -137.25766 -137.27565 -137.24451 -137.23602
115 139 115 140 115 141 115 142 115 142 115 143 115 143 115 144 115 145 115 146 115 147 115 149 115 150 115 151 115 152 115 154 115 155	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc BRX BYG Chevron Pika Stroshein AEX	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Vein/breccia Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver, Lead, Zinc, Copper Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Silver, Gold	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485 62.12272 62.12272 62.12950 62.11903 62.11812 62.11760 62.11705	-137.14599 -137.15914 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.27963 -137.27963 -137.25782 -137.25786 -137.25766 -137.27565 -137.24451 -137.23602 -137.24954
115 139 115 140 115 141 115 142 115 143 115 143 115 143 115 144 115 145 115 145 115 147 115 149 115 150 115 151 115 152 115 153 115 154 115 155 115 156	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc BRX BYG Chevron Pika Stroshein AEX Kelly	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Vein/breccia Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Porphyry	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Copper Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver, Lead, Zinc, Copper Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Silver, Gold Gold, Copper, Molybdenum	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous Late Cretaceous	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485 62.12272 62.12950 62.11812 62.11760 62.11705 62.10149	-137.14599 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.24794 -137.25782 -137.25786 -137.25765 -137.2451 -137.24954 -137.24954 -137.22178
115 139 115 140 115 141 115 142 115 143 115 143 115 144 115 145 115 146 115 147 115 147 115 149 115 151 115 152 115 153 115 154 115 155 115 156 115 157	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc BRX BYG Chevron Pika Stroshein AEX Kelly Kelly South	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Vein/breccia Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Porphyry Porphyry	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectShowingDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver, Lead, Zinc, Copper Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Silver, Gold Gold, Copper, Molybdenum Gold, Copper, Molybdenum	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous Late Cretaceous	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485 62.12272 62.12950 62.11903 62.11760 62.11705 62.10149 62.09384	-137.14599 -137.15914 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.27963 -137.27963 -137.25782 -137.25782 -137.25766 -137.25765 -137.24451 -137.22451 -137.22437
115 139 115 140 115 141 115 142 115 143 115 143 115 144 115 145 115 145 115 147 115 147 115 149 115 150 115 151 115 152 115 153 115 154 115 155 115 156 115 157 115 158	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc BRX BYG Chevron Pika Stroshein AEX Kelly Kelly South Pearl	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Vein/breccia Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Porphyry Porphyry Epithermal	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectShowingDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspect	Schist and gneiss Granodiorite and quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Quartz diorite and andesite Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Lead, Zinc Gold, Silver, Lead, Zinc, Copper Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Silver, Gold Gold, Copper, Molybdenum Gold, Copper, Molybdenum Gold, Silver	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous Late Cretaceous	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485 62.12272 62.12950 62.11903 62.11705 62.11705 62.10149 62.09384 62.11061	-137.14599 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.24794 -137.25782 -137.25782 -137.25766 -137.25765 -137.27565 -137.24451 -137.23602 -137.24954 -137.22437 -137.22437 -137.20463
115 139 115 140 115 141 115 142 115 143 115 143 115 143 115 144 115 145 115 145 115 147 115 147 115 149 115 150 115 151 115 152 115 153 115 154 115 155 115 156 115 157 115 158 115 159	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc BRX BYG Chevron Pika Stroshein AEX Kelly Kelly South Pearl Willow Creek	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Vein/breccia Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Porphyry Porphyry Epithermal Epithermal	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectShowingDrilledProspectShowing	Schist and gneiss Granodiorite and quartz feldspar porphyry Quartz diorite and quartz feldspar porphyry Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Granodiorite Andesite-granodiorite contact	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver, Lead, Zinc, Copper Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Silver, Gold Gold, Copper, Molybdenum Gold, Copper, Molybdenum Gold, Silver Gold, Silver	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous Late Cretaceous	62.04308 62.08851 62.08308 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485 62.12272 62.12950 62.11903 62.11760 62.11705 62.10149 62.109384 62.11061	-137.14599 -137.15914 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.27963 -137.27963 -137.25782 -137.25786 -137.25766 -137.25765 -137.25765 -137.24451 -137.2602 -137.24954 -137.22437 -137.22437 -137.20463 -137.16113
115 139 115 140 115 141 115 142 115 142 115 143 115 143 115 143 115 144 115 145 115 145 115 147 115 149 115 150 115 151 115 152 115 153 115 154 115 155 115 156 115 157 115 158 115 159 115 160	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc BRX BYG Chevron Pika Stroshein AEX Stroshein AEX Kelly Kelly South Pearl Willow Creek Bear	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Vein/breccia Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectShowingDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectDrilledProspectShowingShowing	Schist and gneiss Granodiorite and quartz feldspar porphyry Quartz diorite and quartz feldspar porphyry Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite Granodiorite and quartz feldspar porphyry Granodiorite Andesite-granodiorite contact Granodiorite to diorite gneiss	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver, Lead, Zinc, Copper Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Silver, Gold Gold, Silver Silver, Gold Gold, Copper, Molybdenum Gold, Silver Gold, Silver Silver, Gold Gold, Copper, Molybdenum Gold, Silver	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous Late Cretaceous	62.04308 62.08851 62.08992 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485 62.12272 62.12950 62.11903 62.11760 62.11760 62.11705 62.10149 62.09384 62.11061 62.07793 62.10159	-137.14599 -137.15914 -137.19750 -137.18575 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.27963 -137.27963 -137.27565 -137.25782 -137.25782 -137.25766 -137.27565 -137.27565 -137.24451 -137.23602 -137.24954 -137.22437 -137.22437 -137.20463 -137.16113 -137.03874
115 139 115 140 115 141 115 142 115 143 115 143 115 143 115 144 115 145 115 145 115 147 115 147 115 149 115 150 115 151 115 152 115 153 115 154 115 155 115 156 115 157 115 158 115 159	Mill Cyprus South Old Timer Eliza N Eliza E Transition Rusk W J Bill Sked Herc BRX BYG Chevron Pika Stroshein AEX Kelly Kelly South Pearl Willow Creek	Epithermal Porphyry Vein/breccia Epithermal Epithermal Porphyry Vein/breccia Vein/breccia Vein/breccia Epithermal Epithermal Epithermal Epithermal Epithermal Epithermal Porphyry Porphyry Epithermal Epithermal	ProspectShowingShowingDrilledProspectDrilledProspectShowingDrilledProspectShowingDrilledProspectShowingDrilledProspectShowing	Schist and gneiss Granodiorite and quartz feldspar porphyry Quartz diorite and quartz feldspar porphyry Quartz feldspar porphyry crosscutting granodiorite and andesite Granodiorite Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Quartz feldspar porphyry Granodiorite and quartz feldspar porphyry Granodiorite Andesite-granodiorite contact	Gold, Silver, Copper Copper, Molybdenum Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Lead, Zinc Gold, Silver, Copper, Molybdenum Gold, Silver, Copper, Lead, Molybdenum Gold, Silver, Lead, Zinc Gold, Silver, Copper Gold, Silver, Lead, Zinc, Copper Gold, Silver Gold, Silver Gold, Silver Gold, Silver Gold, Silver Silver, Gold Gold, Copper, Molybdenum Gold, Copper, Molybdenum Gold, Silver Gold, Silver	Unknown Late Cretaceous? Late Cretaceous; 71 to 70 Ma Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous? Late Cretaceous Late Cretaceous	62.04308 62.08851 62.08308 62.08308 62.08582 62.08453 62.07691 62.07070 62.04331 62.12485 62.12272 62.12950 62.11903 62.11760 62.11705 62.10149 62.109384 62.11061	-137.14599 -137.15914 -137.15914 -137.19750 -137.18575 -137.19687 -137.17302 -137.25135 -137.24609 -137.27963 -137.27963 -137.27963 -137.25782 -137.25786 -137.25766 -137.25765 -137.25765 -137.24451 -137.2602 -137.24954 -137.22437 -137.22437 -137.20463 -137.16113

Legend

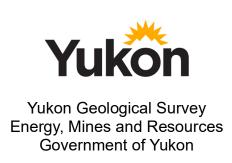
LATE CRE	TACEOUS (LK / LKf)
-LKdP	pyroxene±biotite porphyritic monzodiorite to monzogabbro; brown to black-weathered and fresh, massive, medium-grained, melanocratic; equivalent to uKCg of Colpron et al. (2007)
LKfPp	quartz-plagioclase-biotite porphyritic quartz latite; pink weathered and fresh
ЦКБХРр	intrusive breccia; light grey to orange-weathered, heterolithic, clast- supported breccia containing subangular to rounded sand to pebble-sized clasts of light grey porphyritic rocks in a fine-grained cream to pink matrix; locally quartz-sericite-pyrite altered; hypogene mineralization associated with the Cyprus porphyry complex contains chalcopyrite-pyrite ± molybdenite and is ca. 71 Ma (Selby et al., 2001; Lee, 2021)
LKyP	biotite±hornblende quartz syenite to quartz monzonite; pink weathering, pink fresh, fine-grained equigranular; ca. 70 Ma (Allan and Friend, 2018)
	rhyolite to dacite dikes and plugs; light grey to orange-weathered, typically light grey fresh; locally plagioclase-quartz porphyritic (p) with plagioclase>quartz; plagioclase is white, 2-3 mm and subround, quartz is clear, 3-5 mm and angular to subround, commonly embayed
	rhyolite to dacite dikes and plugs; light grey to orange-weathered, typically light grey fresh
UPPER CR	ETACEOUS
uKfT	rhyolite crystal tuff; flaggy, pale pink weathered, light grey fresh with 5-10% quartz shards; ca. 78 Ma (Allan and Friend, 2018)

SYMBOLS geologic contacts (defined, approximate, inferred, covered). fault; movement not known (defined, approximate, inferred, covered)... dextral strike-slip fault (defined, approximate, inferred, covered) normal fault (defined, approximate, inferred)... fault movement towards (L) and away (R) (\bullet) from section limit of outcrop, subcrop and felsenmeer... _**__**_ jointing..... bedding or flow layering..... foliation (dominant)..... radiometric date (²³⁸U/²⁰⁶Pb, ¹⁸⁷Re/¹⁸⁷Os, ⁴⁰Ar/³⁹Ar) (age in Ma, ± 2s, Zrn = zircon; Ttn = titanite; Cal = calcite; Mo = molybdenite; ● 351 ± 1 ■ 71.0 ± 0.3 ▲ 195.2 ± 0.8 Hbl = hornblende; Bt = biotite; Kfs = K-feldspar; Ms = muscovite; WR = whole-rock).....

road (maintained, unmaintained, quad trail). NOTES A-A'. age magmatism has not yet been dated. The porphyry complex is sinistrally offset by northeast striking faults that appear to truncate Prospector Mountain suite rocks. fault with unknown kinematics separates two structural styles of veining to the southeast of the deposits.

field station (this study).....

on U-Pb ages of zircon from mineralized quartz-feldspar porphyry dikes and is confirmed in this study by a 108.5 Ma ± 0.5 Ma Re/Os date from molybdenite in the centre of a white quartz-pyrite vein. The geology of the past producing Brown-McDade deposit is shown in the Brown-McDade inset map and cross section F-F'. The Brown-McDade deposit contains two types of mineralized rock, gold-silver veins hosted in feldspar porphyry dikes running the length of the pit and a quartz-sulphide cemented breccia body hosted in metasedimentary rocks in the northern end of the pit. The feldspar porphyry dike intruded the contact between Early Jurassic foliated granodiorite of the Minto plutonic suite and metasedimentary rocks of the Snowcap assemblage (Stroshein, 1999). The crystallization age of the feldspar dike is ca. 74 to 73 Ma based on a single U-Pb zircon analysis (Bennett, unpublished) and Ar-Ar dating of biotite (Joyce et al., 2015). The age of mineralization is either mid-Cretaceous (Mortensen et al., 2016) or Late Cretaceous, coeval with dike emplacement. Veins are truncated by steep, northeast striking sinistral faults (Stroshein, 1999



EARLY CRETACEOUS (mK)

LATE TRIASSIC TO EARLY JURASSIC hornblende-plagioclase porphyritic intermediate dikes and plugs; hornblende-plagioclase porphyritic interm 103.8 ± 0.5 Ma (Klöcking et al., 2016) K-feldspar porphyritic hornblende granodiorite; medium to coarsegrained, moderately foliated to unfoliated; ca. 197 to 196 Ma (Sack LTEJgM et al., 2020; Bennett, unpublished) hornblende±pyroxene diorite; fine-grained, equigranular; late or border phase of the Dawson Range batholith, best exposed in the vicinity of Slate Creek hornblende granodiorite; medium to coarse-grained, moderately vicinity of Slate Creek foliated to unfoliated, equigranular; best exposed on eastern margin of plutons; presumably ca. 197 to 196 Ma based on biotite-hornblende granodiorite; fine to medium-grained, mKgWT association with LTrEJgM equigranular; main phase of the Dawson Range batholith ca. 107 to 105 Ma (Klöcking et al., 2016; Mortensen et al., 2016) LATE TRIASSIC rhyolite to dacite dikes and plugs; light grey to orange-weathered, hornblende ± biotite tonalite; medium-grained, weakly foliated, typically light grey fresh; plagioclase-quartz porphyritic with equigranular; ca. 211 Ma (Klöcking et al., 2016) plagioclase>quartz; plagioclase is white and commonly clay altered, quartz is clear, angular to subround and commonly embayed; at the Flex deposit, dikes of this lithology are altered by YUKON-TANANA TERRANE veins with a 108.5 Ma ± 0.5 Ma Re/Os molybdenite age. This lithology is very similar to LKfCp. DEVONIAN TO MISSISSIPPIAN LOWER CRETACEOUS (mKN) biotite ± hornblende metagranodiorite; light grey to orange-weathered and light grey fresh, foliated; local feldspar augen; aphanitic to fine-grained, massive andesite; interpreted as feeder (MgSR) locally well foliated and difficult to distinguish from plugs to Nansen volcanic rocks, but could also be related to quartzofeldspathic Snowcap rocks; 365 to 350 Ma (Joyce et al., Carmacks volcanism amphibolite; dark green; strongly foliated and locally rhyolite tuff; aphanitic, light grey to buff-weathered and fresh, compositionally layered; generally schistose, locally gneissic; densely welded micaceous relative to the Snowcap amphibolite (PDS3) rhyolite breccia and flow-banded rhyolite; 107.4 ± 0.7 Ma PROTEROZOIC TO DEVONIAN? (Klöcking et al., 2016) amphibolite; dark green weathered and fresh; fine to medium-∕₽́DS3 grained, equigranular and foliated mKNEb epiclastic breccia quartzite and schist; grey to white quartzite, micaceous quartzite and quartz-muscovite-biotite (± garnet) schist; strongly foliated and andesite breccia; dark green to brown-weathered and dark green PDS1 layered; locally forms a quartzofeldspathic gneiss difficult to to black fresh, monomict with andesite groundmass; 115 to 112 Ma distinguish from Simpson Range metagranitoid (MgSR) (Klöcking et al., 2016) plagioclase-hornblende phyric andesite; dark green to black, massive, fine-grained; 115 to 112 Ma (Klöcking et al., 2016) ALTERA

			a al., 2010)						
ALTERATION (only on sheet 2)									
	high grade Au-Ag		Quartz-tourmaline		argillic				
	low grade Au-Ag		phyllic		propylitic				
MINFILE DEPOSIT TYPE MINERALIZATION AGE									
🔷 epit	thermal veins				Late Cretaceous				
ро	rphyry			Early Cretaceous					
O unk	nown			Ć	unknown				
vein trac	ce (defined, approximate))				
	breccia body cemented by hydrothermal minerals such as tourmaline, magnetite and quartz								

placer gold creek (major gold bearing stream,

proven or high potential to be gold bearing)

These three maps are larger-scale versions of the same geology presented in sheet 1 and are meant to display the increased level of detail over some of the key occurrences in the Mount Nansen porphyry district. In addition to the 1:20 000 district map are 1:2500 maps over the Flex and Brown-McDade deposits. Four cross sections (C-C', D-D', E-E' and F-F'), all look northwest at 1:20 000 with their locations shown on the district map; cross section C-C' is located along The geology and alteration of the composite Cyprus porphyry complex are shown in the Mount Nansen porphyry district inset map and cross section D-D'. The porphyry complex is approximately 4 km by 2 km, elongate east-west and is characterized by porphyritic rocks that occur as dikes, plugs and breccia bodies (Sawyer and Dickinson, 1976). Concentric phyllic-argillic-propylitic alteration zones are centered on quartz-tourmaline cemented breccia bodies, the inferred centres of magmatic-hydrothermal mineralization (Sawyer and Dickinson, 1976). Our preliminary interpretation is the complex includes both Casino and Prospector suite rocks. A single ca. 76 Ma age from the southeastern margin of the body, dated with U-Pb zircon by LA-ICPMS (Hart, unpublished) suggests Late Cretaceous Casino suite magmatism and is supported by our new Re/Os molybdenite date of 76.3 ± 0.4 Ma from the Kelly occurrence immediately northwest of the body. The presence of Prospector suite mineralization is indicated by two ca. 71 Ma Re-Os molybdenite ages from the southwestern and northeastern parts of the complex (Selby and Creaser, 2001; Lee, 2021); Prospector Mountain The geology of the Klaza and BRX deposits is shown in the Mount Nansen porphyry district inset map and cross section C-C'. The deposits are hosted by mid-Cretaceous biotite-hornblende granodiorite of the Whitehorse plutonic suite. Abundant dikes of the Late Cretaceous Casino suite intrude the Whitehorse suite and are spatially associated with the gold-silver-zinc-lead epithermal veins (Turner and Dumala, 2017). The veins crosscut Late Cretaceous dikes, the majority of which are ca. 78 to 76 Ma and mineralization was ca. 74 to 71 Ma, broadly coeval with the Late Cretaceous Prospector Mountain suite (Lee, 2021). Early Late Cretaceous Casino suite age (78 to 74 Ma) porphyry mineralization has recently been recognized in the Kelly zone between the Klaza occurrences and the Cyprus porphyry complex (this study; Lee et al., 2020). Veins are sinistrally offset approximately 100 m along north northeast faults; a regional steep The geology of the Flex deposit is shown in the Flex inset map and cross section E-E'. The Flex deposit is an epithermal vein system hosted within amphibolite and felsic schist of the Finlayson assemblage (Andersen and Stroshein, 1998). High-grade gold and silver values are associated with north northwesterly trending, sulphide-rich quartz veins. The age of mineralization has previously been interpreted as mid-Cretaceous (ca. 110 to 106 Ma; Mortensen et al., 2016) based

Open File 2021-2 Revised geological map of Mount Nansen area (NTS 115I/3 and part of 115I/2) Sheet 2 of 2 (scale 1:20 000)

Patrick Sack, Nicole Eriks and Sydney van Loon