

DDH 75-02
 2 Dupont 8

Cyprus Anvil Mining Corp
 Lithologic Log

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Code	From	To	Unit	Code	Description	
1	10	14	16	20	22 23 25 27	
L	1100	1120	11	#	O/B	
L	1120	11390	12	5B6	→ 3B0 carbonaceous throughout i.e. 5B62→3B	
L	11390	11680	13	5D6		
L	11680	11720	14	5D5	w/ phyll. interbands	
L	11720	11805	15	5A0	→ 4A0 po-bearing ribbon banded graph. phyll.	
L	11805	12070	16	5C3		
L	12070	12510	17	5A0	→ 4A0 as units	
L	12510	12840	18	5C3		
L	12840	13410	19	5A0	→ 4A0 as units 5,7 w/ 3-4" CO ₃ interbands	
L	13410	13455	10	5D3		
L	13455	13620	11	5C3		
L	13620	13670	12	5D3		
L	13670	14015	13	5A0	→ 4A0 as units 5,7,9	
L	14015	14085	14	5D3		
L	14085	14200	15	5A0	→ 4A0 " " 5,7,9,13 w/ ZnS 414-420 <5% comb.	
L	14200	14410	16	5D3	→ 5D35 c.f. 3D0	
L	14410	14450	17	5A0	→ 4A0	
	14450	14600	18	5D3	→ 5D35 c.f. 3D0	
	14600	14620	19	5A0	→ 4A0	
	14620	1498±	20	5D3	→ 5D35 c.f. 3D0	
					N.B. Hole goes 5B → 5A → 3D	

Code	From	To	Unit	Code	Description
	10	14 16	20	22 23 25 27	
L	00	300	1	#	O/B
L	30	1286	2		Black, patchily but generally calcareous gtz graphite phyllite; thin laminae of gtz/gtite "heavily devel. S ₂ (?) fol ⁿ ," is this Yukon Revenue facies of Klondike Schist
L	1286	1450	3		Dk. ^{gray} green, amygdaloidal finely x-line basalt possibly Tertiary Weasel Lk. pkg.; contact w/ unit 2 dulled away; prob. a dike
L	1450	1500	4		M. gray, carb., incip. btriated Klondike Schist ghtes
L	1500	1946	5		Crackle bria of lt. green to "bleached" off white meta-volcanic rks of uncertain comp.
L	1946	2095	6		Complexly interbanded sequence of ghtes & metaboles of units 4 & 5 above
L	2095	2620	7		Lt. to med. gray, btriated ^{conglomerate} carb. micaceous ghtes of Klondike Schist; con- glomeratic nature partially masked by crackle bria overprint??
L	2620	2660	8		Tan, heavily gouged, non-calc, musc. phyll. showing excellent clastic texture; rck has flattened ghtite clasts & lithic fragments
L	2660	2985	9		M. dk gray, carbonaceous ghtite bria of poss. cataclastic origin - real ratnest!
L	2985	4300	10		Black, non-calc, gtz-graphite phyllite; c.f. to unit 2 but more graphitic, less silicious; entire unit has a cataclastic structure/overprint characterized by mylonite zones bounding btriated graphitic ghtites & gtz-graphite phyllites
L	4300	4950	11		Strikingly less deformed package of thick bedded argillites & lithic sandstones of probable T ₂ affinity; unit 10 above appears to be Klondike schist & not the T ₂ shale & CO ₃ pkg @ Rose Mtn. i.e. Klondike 30-430/T ₂ 430-
L	4950	5010	12		Dk gray green, thinly bedded (graded?) sequence of "mafic" wackes (wackes from volc. provenance) or fine grained ss to sst.

Code	From	To	Unit	Code	Description
	10 14 16 20	22 23 25 27			
L	5010	5045	13		Lt. ^{lime} green, bitthic ss.; prob. has frags of unit 5 meters above giving rise to color; floating clasts, poorly sorted
L	5045	5120	14		Poorly sorted conglom w/ angular to subrounded frags; frags range from 2" to matrix of m.g. ss. size; matrix supported conglom.
L	5120	5240	15		M. dk. gray, non-calc sst. to ss.; unit biotated
L	5240	5835	16		Black, non-calc. graphitic gouge w/in a sequence of " f.g. clastic nps (sst)
L	5835	6110	17		Black, non-calc siltstones w/ lesser intervals of gouge than seen in above unit; sequence not dissimilar to blk. shale/sst/CO ₃ "
					@ Rose Mtn
L	6110	6410	18		M. dk. gray, thinly to lam. bedded limestones & siltstones prob. of T ₂ Rose Mtn. pkg.; microfossil sample 611-635'; X-bedding ⇒ tops up
L	6410	6570	19		Black, non-calc, thin bedded siltstones w/ minor m. gray fine sandstone beds; c.f. above unit but not calcareous - part of T ₂ (?) pkg.; heavily gouged 648.5-655.5
L	6570	8330	20		Thinly to lam. bedded, ^{m. gray} fine ss to sst w/ carb. laminae interlayered w/ black carb. sst as unit 19 above; X-bedding ⇒ tops up in hole; unit prob T ₂ , but may be UDM
					EOH

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Code	From	To	Unit	Code	Description	
	10	14	16	20	22 23 25 27	
L		100		1	#	o/B
L	100	240	2			altered, lt. med. green, massive, non-calc. metavolcanic w/ heavily qtz veined; buff alt ⁿ may be carbonation related to qtz veins
L	240	860	3			Med. green, highly broken, metavolcanic w/ w/ 2 thin carbonaceous sections @ 74' and @ 86'; poor recovery 2' only over 27-74'
L	860	930	4			Badly broken m. green, fol ^d metavolc. sch. w/ few tan colored (carbonated?) alt ⁿ zone; sch appears to have been fractic w/ dk. green pyx. phenos - now flattened irreg sm. lenses as better preserved units to come; non-calc.
L	930	934	5			Black graphitic, ^{siliceous} metaseds (interflow??)
L	934	11220	6			Tan, mostly alt ^d (carbonated?), lt green fresh, non-calc, metavolc w/ prom. dk. green (pseudo fuchsite-looking) schist pyx. phenos; pyx's may have been glaucophanitic
L	11220	11300	7			Black, graphitic, siliceous metaseds, (interflow??) as unit 5
L	11300	11620	8			Tan, altered (carbonated) well foliated ^{dk. green} pyx(?) pheno. bearing metavolc.; 135-149 less fractic & may be separate flow unit; 149-162 more "
L	11620	11890	9			Fresh, m. green, ^{dk. green} pyx. pheno. bearing mafic metavolc.; pyx seen \Rightarrow bio; unit mod. fol ^d
L	11890	11900	10			M. gray green, slightly carb, highly siliceous phyllite w/ frags(?) of unit 9 \Rightarrow interflow b'ia / scoria subconcretely carbonated!
L	11900	12090	11			Mod. fol ^d , m. green, non-finely fractic metavolc. c.f. unit 9 w/out prom. pyx. pheno. devel.; unit var. calc.
L	12090	12110	12			M. gray to brown gray, patchily calc., banded volcanic; possible flow margin - base
L	12110	12410	13			M. green, mod \rightarrow w/ly fol ^d , patchily calc. metavolc w/ sparse dk. green pyx(?) phenos; CaCO ₃ amygdules towards base of unit (from 236-241)

Code	From	To	Unit	Code	Description
1	10	14 16	20	22 23 25 27	
L	2410	2450	14		Blk. carb, thin bedded argillite (interflow beds) non-calc.
L	2450	2540	15		Tan to med. green, lgely alt ^d . (carbonated?) metavolcanic; carbonated zones fizz when powdered in 10% HCl → dolomitic or ferroan dolomitic alt ⁿ .
L	2540	2590	16		Comp. banded, dk. gray to greenish tan interflow beds; prob. tuffaceous beds; last 2' heavily gtz veined & brecciated
L	2590	2625	17		Greenish tan alt ^d (carbonated) metabole c.f. unit 15
L	2625	2635	18		Carb. banded argillite (interflow)
L	2635	2740	19		As unit 17, strongly broken
L	2740	2775	20		Strongly comp banded, dk. gray, carb, non-calc argill. & greenish tan, non-calc tuffaceous beds one of which is calc.
L	2775	2850	21		Dk. greenish gray, locally tan, flow banded, sparsely CO ₂ amygdaloidal metabole (flow)
L	2850	2855	22		Carb. argillite (interflow beds)
L	2855	3025	23		M. gray green, amyg., mod. fol ^d , non-folitic metabole; patchily calc w/ CaCO ₃ amygdaloids
L	3025	3070	24		Greenish tan alt ^d metabole; finer grained poss flow margin
L	3070	3075	25		Broken zone incl. frags. of argillite, vates & gtz veins
L	3075	3210	26		Med. fol ^d , m. br. gray green, finely mottled, non-calc, chlor mottled metabole; fine tan mottles may be clay minerals after felds; unclear what chlor. mottles are
L	3210	3390	27		Carbonaceous, var. calc., argillite w/ var. calc. greenish gray tuffaceous bands; no fossils seen in minor carb. ls. interbands
L	3390	4765	28		M. dk. green, non-calc, patchily amygdaloidal, occasionally alt ^d /carbonated, patchily finely mottled (clay after felds?) metavolcanic rocks; some zones w/ dk. green (pyro?) relict phases

Code	From	To	Unit	Code	Description
	10 14 16 20	22 23 25 27			
L	16765	16780	29		Carbonaceous fault gouge @ base of metabole. plog.
L	16780	16810	30		Lt. m. green to tan alt ^d & gneiss metaboles
L	16810	16820	31		M. dk. gray, shined metabole, interband; partially gneiss
L	16820	16845	32		Lt. m. green, heavily fol ^d metaboles
L	16845	17720	33		Dk gray, patchy, calc., carbonaceous phyllite, not identical to 5B but somewhat similar
L	17720	17770	34		M. green, heavily gneiss metaboles
L	17770	18165	35		As unit 33
L	18165	18390	36		Tan, alt ^d /carbonated amygdaloidal metaboles
L	18390	18585	37		Dk. gray to black, non-calc. phyll.
L	18585	18635	38		Tan, alt ^d /carbonated, non-calcitic, non-amygd.
L	18635	18650	39		As unit 37
L	18650	18760	40		As unit 38
L	18760	18770	41		As units 37, 39
L	18770	18915	42		As units 38, 40
L	18915	18950	43		" " 37, 39, 41
L	18950	1910	44		" " 38, 40, 42
L	19100	19960	45		Dk. gray, var. carb, var. calc. lam. banded, heavily fol ^d . phyllites — not converging like 5B but not entirely dissimilar
					<u>Summary:</u>
					DDH could pass thru basal MCU into upper Vangorda. Not certain of this

Code	From	To	Unit	Code	Description
	10 14 16 20	22 23 25 27			
L	100	1220	1	#	O/B
L	1220	1230	2		Fault gouge, gray, prob. derived from carb. gneiss of Klondike schist
L	1230	1250	3		M. dk. gray, non-carb., non-siliceous possible metaigneous rock? - uncertain origin; m. dk. gray gneiss-feldspathic schist
L	1250	1520	4		Dk. gray fault gouge
L	1520	1620	5		M. dk. gray gneiss-felds. schist as unit 3
L	1620	1805	6		Fault gouge, dk. gray
L	1805	1825	7		Carbonaceous gneiss phyllite
L	1825	1870	8		Lt. tan, heavily fol. gneiss-musc phyll & gouge from same
L	1870	1930	9		Nearly fol., lt. green, non-carb metabasite & derivative gouge
L	1930	2265	10		Fault gouge; dk gray to black
L	2265	2280	11		Black, heavily fol. siliceous (?) graph. to carb. phyll.
L	2280	2330	12		M. dk. green, (wholly carb when powdered in 10% HCl) metabasite w/ med siliceous carbonate (dolomite) mottles; looks like Klondike metabasite
L	2330	2360	13		Fault gouge; dk. gray
L	2360	2370	14		As unit 11 only m. gray
L	2370	2380	15		Fault gouge, m. dk. gray
L	2380	2410	16		Carb., m. gray gneiss schist or phyllite - poss. Yukon Rev. facies of Klondike schist
L	2410	2720			Fault gouge, m. gray w/ gneiss pod 247-248 and talcose gouge 262-270
L	2712	2760			Dk gray gneiss-graphite phyll to schist
L	2760	2870			Ground ore & rubble Real shitcock hole!

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Code	From	To	Unit	Code	Description
	10 14 16 20	22 23 25 27			
L	1100	11200	1	#	O/B + snot
L	11200	11420	2		M. green, generally banded, generally non-calc sparsely & sporadically mottled (relict microphyritic feldspars / poss. fine amygd.) metabasites; prob. Klondike schist terrane - color right
L	11420	11640	3		M. gray, non-calc., heavily fol'd. gtz graph. phylls to schists of Klondike schist
L	11440	11680	4		Metabasite c.f. unit 2
L	11680	11695	5		Gtz. graph. phylls as unit 3
L	11695	11720	6		Fault gouge, m. gray, prob. derived from unit 5
L	11720	11730	7		Metabasite, lt. green c.f. units 2 & 4
L	11730	11790	8		Lt. to med. gray, non-calc, carb. gtz phylls w/ polyhedral gtzite lenses or clasts bounded by anastomosing carbonaceous, micaceous foliae; uncertain whether thin orig. cse. clastic, rk or not
L	11790	11835	9		M. dk. gray & lt. greenish gray phylls & gtz graph. phyll; poss. in part tuffaceous
L	11835	11850	10		Lt. buff green, musc-chlor-gtz phyll
L	11850	12050	11		Dk gray gtz-graph. phyll. to schist + gouge looks like fairly good Klondike schist gtzose phyl.
L	12050	12070	12		As unit 10
L	12070	14200	13		M. dk. to dk. gray, heavily fol'd. gtz-musc-graph. phylls / schists of Klondike schist terrane w/ numerous M. buff to buff green musc-chlor-gtz phyll. interbands (10% of interval); unit non-calc; many gouge zones over interval
L	14200	14250	14		Buff, non-calc., heavily fol'd., non-carbonaceous musc-gtz phyll; may be feldspathic
L	14250	1455	15		Interbanded lt. gray gtz tuffic gtz and gtz-graph. phylls; good Klondike schist lithologies
L	14550	14610	16		Lt. buff green, gtz-musc-chlor phyll; may be a metabasite

Code	From	To	Unit	Code	Description
	10 14 16 20 22 23 25 27				
L	00	670	1	#1	O/B + casing
L	670	710	2		Black, slitty looking, granular, heavily gouged, sheared, cracked, graphitic, non-calc gtz-musc phyllite; typical K5 YRF as in other holes
L	710	950	3		Beige to lt. green, highly altered, carbonated amygdaloidal(?) mafic metavolc. rb; alt to gtz-musc ± talc phyll on either side of moderately alt. core
L	950	1140	4		Mod. carb. dk. gray, gtz-musc-graph. phyll; not as siliceous as seen in this set of boreholes common porphs (chld?/staur??); non-calc.; heavily gouged throughout; minor lt. sections prob. related to unit 3
L	1140	1240	5		Dk. gray to black, var. siliceous graphitic phyllites; homogeneous w/out typical gtzose banding; 30% off white to beige, non-calc. gtz-musc ± chlor ± py phyllite bands interleaved w/ var. 1' thicknesses
L	1240	1600	6		Carb., homogeneous, siliceous & non-siliceous phyllites c.f. unit 5 above; units 5 & 6 v. similar to K5 YRF & Yukon Riv. core
					<u>Summary:</u> DDH cuts typical Klondike Schist Yukon Revenue facies. Metavolcs would weather orange as seen on surface @ YR camp

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 2 Feet 8

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Logged By: GAT/DST

Code	From	To	Unit	Code	Description
	10 14 16 20 22 23 25 27				
A	100	110	1	#	O/B
L	110	125	2		Lt gray green, patchily calcareous meta-volcanic rsk., f.g. & unbandeal; poss. fine lt. colored mottling (after feldspar?); unknown unit; gauge 122-125
L	125	130	3		Lt. m. gray, non-calc musc. phyll. c.f. non-calc Yukon Riv. facies to SE?; heavily S ₂ foliated breaking into myriad of "lenses"; rare py bands
L	130	159.5	4		Lt. med green, patchily calcareous meta-volcanic rsk not dissimilar from 5D3; fine mottling after felds
L	159.5	188.5	5		M gray, thinly banded, non-calc. phyll w/ 20% lt green bands (tuffs?) w/ rare calc. bands banding on scale "1/8" - "1/2"; vaguely similar to banded 3G (Matt Berry)
L	188.5	207	6		As unit 4, more calc. & coar. grained i.e. c.f. 5D3 unit characteristically spotted → poss. ^(clay) ^(minerals) metavolcanic ^{feldspars also with} volcanic amygdules c.f. units in Klondike schist (in this sense meta-volc not like 5D3)
L	207	255	7		M. dk. gray phyllite (non-calc) as unit 3; slightly carbonaceous; gauge 207-211
L	255	281	8		Heavily sheared, lt. gray green, gen. non-calc, f.g. meta-volcanic rsk somewhat c.f. unit 2
L	281	292	9		Lt. med. gray green interbedded sequence of phyllites & more chloritic (meta-volc?) phyllites i.e. internal admixture of units 7 & 8
L	292	309	10		Lt. green, strongly fol ^d , w/ky banded, dk. green mottled (orig. clastic texture) meta-volcanic rsk possibly of tuffaceous origin; short strongly calc. internals
L	309	318	11		Lt. green, mottled meta-volcanic unit ident. to unit 6 w/ buff relict(?) feldspars replaced by clay minerals & small persistent green cl ^d ; amygdules; unit patchily calc; prob. amyg- daloidal flow
L	318	320	12		Strongly lamellarly banded, chlor-musc. phylls.; lt. gray green; poss. fine interbanding of shales & unit 10 tuffs; gray phyll. inc. to base of interval

Code	From		To		Unit		Code	Description
	10	14	16	20	22 23	25 27		
L	3240		3470		13			Interbanded gray & lesser m. green phyll. c.f. unit 5; unit non-calcareous; 10-20% green bands best devel. @ top & base of unit → gradation into over & underlying meta-ole units
L	3470		3770		14			Lt. green, v. calcareous, strongly foliated chlor. phyll. c.f. 5D3 w/ calcite amygdules; probably foliated amygdaloidal flow c.f. unit 11; not ident to 5D3 but has 1/16" - 3/4" CO ₂ laminae like 5D3; may be similar to thinly banded chlorite / dolomite unit in Klondike schist terrane to SE only unit calcitic here (GAT)
L	3770		4290		15			Interlayered green & gray phyllites w/ 70%-60% green bands c.f. units 5 & 13; strongly comp. banded & non-calc.
L	4290		4320		16			Lt. green, heavily foliated, thinly banded prob. tuffaceous mafic metavolcs; non-calc; somewhat like 5D9
L	4320		4410		17			Uniformly f.g., felds mottled, amygdaloidal (10%) mafic metavolcanic, rks c.f. units 6 & 11
L	4410		4435		18			As unit 16; note "tuffaceous apoon" to amygd. flow(?) c.f. 5D/5C situation
L	4435		4510		19			Lam. banded green & gray phyllites c.f. unit 15 non-calc.
L	4510		4530		20			Wkly. comp. banded green, non-calc phyllites as units 16 & 18
L	4530		4600		21			As unit 17
L	4600		4705		22			As unit 16, 18, 20; non-calc; first foot v. chloritic
L	4705		4760		23			As units 16-17-18 w/ 3' mottled amygd. flow centered @ 473'
L	4760		7314		24			Monotonous m. gray & lt. m. green, non-calc. phyllites essentially identical to 3G (as shown by direct comparison to 3G in T79-03) No coarse py/ps D ₂ porphs in this unit; uncertain if this 3G or Yukon Riv. facies of Klondike schist terrane

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Code	From	To	Unit	Code	Description
	10 14 16 20 22 23 25 27				
L	7340	7750	25		Lt. green, calcareous, comp. banded, heavily foliated metatuffs v. similar to 5D3 w/ characteristic calcitic bands
L	7750	8155	24		M. dk green, mottled, calcareous metabasites similar to 5C but lacking typical relict ign. texture; this unit definitely seen at DY & may represent well-sorted microporphyritic flows whose feldspars have altered to CaCO ₃ giving rise to characteristic white mottled appearance <i>may be pyroclastic</i>
L	8155	8250	27		M. dk green, mottled non-calc. metabasites c.f. unit 26 but non-calc.; may be pyroclastic
L	8250	8620	28		As unit 26
L	8620	8690	29		M. to m. dk. green, dk. chlorite mottled, unlaminated chloritic phyllite of probable pyroclastic origin; massively bedded; mottles are irreg w/ ragged reentrants → origin as tuffic frags rather than chlor. filled amygdulites; unit calcareous some similarities to MC _v ; same unit as DY 77X-08
L	8690	8815	30		As unit 25 showing some possible gradual bedding unit calcareous; note "tuffaceous apron" to metabasites c.f. 5C/5D in Vangorda Fm.
L	8815	9020	31		M. gray > green, lam. banded, non-calc. phyllites c.f. 3G Ace/Matt Berry
					<u>Summary:</u> This hole clangs! Phyllitic phg. nearly ident to 3G, metabasites have strong similarities to 5C/5D of Vangorda Fm. & are not totally unlike some metabasites in Klondike schist

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Code	From	To	Unit	Code	Description
	10 14 16 20		22 23 25 27		
L	100	1300	1	#	O/B, casing
L	300	360	2		Fault gouge, lt. colored, prob. qtz-musc phyll off white to beige
L	340	390	3		Fault gouge, carbonaceous
L	390	670	4		Lt. beige to beige green, non-calc, qtz-musc ± chlor phyll.; prob. metabasaltic; sheared and gaged.
L	670	1250	5		Dominantly gouge w/ remnants of dk. gray qtz-musc-graph. phyll. & carb. phylls (lgely washed away) Sewage!
L	1250	1400	6		Fault gouge, lt. olive green to beige, prob. mafic-metavolcanic parent
L	1400	1870	7		Intensely broken core, & gouge of dominantly qtz-graph. phyll, var. carb. w/ minor buff colored hard, non-calc. poss. metabasaltic bands.
L	1870	2590	8		Fault gouge - absolutely no core - all washed away - inferred gouge zone
<u>Summary:</u>					
DDH in same Klondike schist - Yukon					
Rev. facies as holes 7, 9, 10, 15					

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Code	From	To	Unit	Code	Description
	10 14 16 20	22 23 25 27			
L	00	500	1	#	O/B, casing
L	500	1650	2		M. green, chloritic phyll. w/ ≈ 30% white vein $CaCO_3 \pm CaMg(CO_3)$ veins; heavily carbonated (calcite) metavolcanic (metasite) rock of Klondike schist terrane; unit is extremely $CaCO_3$ mottled & veined perhaps \rightarrow a chaotic history; last 10' more evenly carbonated as normal
L	1650	2500	3		Alternating sequence of black, carbonaceous to graphitic gylites and silicious, carbonaceous phyllites all heavily sheared, gouged and broken much vein gtz healing incipient by a prodour. in gylite sections; numerous metaroles over interval
L	2500	2855	4		Heavily carbonated ($CaCO_3 + CaFeMgCO_3$) tan to lt green metarole, heavily sheared & gouged; in some gouge zones see bright apple blue green mineral - not fuchsite or malachite could be $CuCO_3$ mineral or zolite??
L	2855	4010	5		Interleaved gtz-musc-graph. phyll (black) and lt. tan gtz-musc \pm chlor phyllite of unknown origin; typical gtz-graph. phyll. unit of Klondike schist - Yukon Riv facies; numerous broken & gouged zones; intense gouge 340-373 entire interval 340-401 extremely broken & gouged
L	4010	4612	6		Lt. to med. gray, ^{whly} micaceous gylites w/ dk. laminae defining foliae (possibly carb. matter)
L	4612	4805	7		Lt. to med. tan gray, non-calc gtz-musc \pm chlor phyllite; may be a clastic rck. or a metavolcanic can't really tell
L	4805	4950	8		Dk. gray to black carb. gouge w/ fragments of med. gray whly micaceous gylites as unit
L	4950	5320	9		Lt. tannish green, non-calc. prob. metavolcanic rck w/ poss. carb. (FeMg) replaced relict feldspars unit contains some banded material which may be tuffaceous; unit would prob. be orange weath. tuffs & vales in Yukon Riv plq.

Lithologic Log

Code	From		To		Unit		Code	Description
	10	14	16	20	22	23		
L		00	1300		1		#1	O/B + casing
L	1300		2495		2			M. green, heavily fold ^d , non-calc, comp. banded volcanoclastic shs to calc bryas non chlor. phylls. showing gray brown silty(?) interbeds & siltic clastic texture; excell. devel. of D ₂ con. fol ⁿ .; unit not seen previously ("what a bunch of fine horseshit" GAT); lt.-med. gray crackle brecciated ferrom-dolomite + gtz vein cross-cuts ^(13.5-200') , well bedded prob. tuffaceous sequence in this unit; unit when powdered fizzes in 10% HCl ⇒ ferrom dol. component; unit would possibly weather rusty orange as commonly seen in KS4RE; minor black carb. bands 2-6" thick 245-249.5 also minor black t. blue frags <<< 1%
L	2495		2560		3			Interbedded dk. gray & m. tan green, non-calc & non-carbonated metaseds & tuffs w/ a few floating carbonated clasts (derived from underlying unit?)
L	2560		2850		4			m. brown and green, ^{mottled} thin to laminarly banded brya w/ brown, flattened irreg, w/ky carbonated (fizz powder in 10%) frags. in med. green " (" " " ") poss. tuffaceous matrix
L	2850		3030		5			Generally m. beige, carbonated (fizzes when pushed in 10% HCl) musc ± chlor phyllites w/ minor dk. gray carb. metased. interbeds; entire interval incipiently brecciated & cut by light colored gtz-CO ₂ & veins; may be carbonated, altered & brecciated tuff sequence
L	3030		3240		6			As unit 4 ^{microgray}
L	3240		3285		7			Dk. gray, carbonaceous, non-calc, gtz-mica graph. phyll to locally gtytic; strongly comp. banded; typical graph. phyll / gtytic phg of Klondike Schist Terrane
L	3285		3890		8			Similar to units 4 & 6 but more regularly banded possibly w/ lesser brya intervals; some of brown frags may be carbonated, occasion-

Lithologic Log

Code	From		To		Unit		Code	Description
	10	14	16	20	22	23		
								ally amygdaloidal volcanic clasts; uncertain whether pinkish tan bands are actual elongate bryia clasts or whether they could be boudinaged competent silts in tuffaceous matrix (units don't look like they would have strong ductility contrast)
L	3890		4000		9			Lt. green gouge presumably from units 8 & 10
L	4000		4040		10			Lt. beige green musc-chlor metavolcs as unit 5
L	4040		4300		11			Fault gouge & sporadic rock of units 10 & 9
L	4300		437		12			M. to sh gray, carb. phyllite; good comp layers soft, not v. sil.; upper half of unit, gouged.
L	4370		4400		13			Lt. green ^{gray} metavolc bryia as above
L	4400		4416		14			Thinly to lam. comp. banded green tuff(?)
L	4416		4450		15			Fault gouge from metavolcs
L	4450		4520		16			M. green, fairly mass., finely mottled (carbonates or clay minerals after felds) metavolc. (mafic) poss. flow
L	4520		4600		17			As unit 14
L	4600		4630		18			Fault gouge, Lt. green
L	4630		4700		19			M. silvery gray, patchily & slightly calcareous w/ky carb. musc phyll of K5 YRF of SB but definitely not Vangorda because of v. argill unbandeal nature i.e. no silty CO ₃ turbidite bands
	4700		502					gouge of unit 19 to end of hole.

Code	From	To	Unit	Code	Description	
	10 14 16 20	22 23 25 27				
L	10	14	16	20	22 23 25 27	
L	1850	1555	2			OFB + casing
L	1850	1555	2			Interbedded buff, altered, carbonated probable mafic metavolcanic rocks (fizzes when powdered in 10% HCl) and black, v. siliceous non-calc. gytis & gtz-graph. phylls of KSi; v. may have started off life as pyx. porphyries as seen in T 79-08; much may have started off life as fine grained sh.!
L	1555	1900	3			Bright green, fuchsite (?) flecked, lt. gray crackle brecciated ferromagnesian dolomite (fizzes powdered in 10%) — probable carbonated UM; partially mylonitized
L	1900	2030	4			dk gray carb. to graph. gtz-musc-graph. phyll. to gytis; partially gouged
L	2030	2065	5			off white, finely illine musc-gytis of Klondike Schist
L	2065	2160	4			As unit 4
L	2160	2330	7			As unit 5 gytis
L	2330	2470	8			Interbedded graph.-gtz phylls & gytis typical of KSiRF

Code	From	To	Unit	Code	Description
1	10 14	16 20	22 23	25 27	
	00	1910	001		ore burden
	910	1257	202		medium ^{silvery} grey soft calcareous phyllite - fair development of compositional layering on mm to few mm scale - light layers are calcite rich and rarely exceed 5mm.
					Differences from Vangarda formation Calc phy of SB are
					1) less comp layering in this unit & probably thinner here
					2) less calcareous
					3) striking silvery sheen on folia missing in Vangarda
					4) distinct talcose feel on folia surfaces.
					5) probably a more argillaceous and may lack the silt of SB calcareous layers.
					poor recovery everywhere but most core between 150 & 237' is missing - only 5' of recovery
					no grit layers seen
					No metabasite seen.
					many individual pieces of core would fit into SB but taken all together the unit doesn't fit well as SB -

Code	From	To	Unit	Code	Description
	10 14 16 20 22 23 25 27				
L	00	500	1	#	O/B + casing
L	500	680	2		lt. green, gen. comp. banded chlor-musc-gtz phyll.; poss. tuffaceous; lacks micro-texture & is locally quite siliceous; non-calc.
L	680	720	3		m. gray carb. gtz-musc phyll interleaved w/ above lith (unit 2); non-calc.
L	720	770	4		c.f. unit 2 but not as comp. banded; non-calc.
L	770	1230	5		dk. gray to blk, non-calc., carb. gtz-musc phyllite as commonly seen in KS YRF; poorly devel. comp. layering; quite siliceous locally grading to gtzite; 3" mass pyg ^{thin} @ 87'; 1' meta-volc material @ 91'
L	1230	1280	6		lt. gray green, chlor-musc-gtz phyll; non-calc; massive in interior, interbandal w/ gray pelitic material @ either end; c.f. unit 3; prob. metatuff
L	1280	1420	7		As unit 5
L	1420	1480	8		lt. gray green, chlor-musc-gtz phyll; wk. comp banding; as unit 2
L	1480	2485	9		As units 5 & 7 grading to carbonaceous, micaceous gtzites; typical KS YRF facies
L	2485	2530	10		Thinly comp. layered, heavily fol ^d , m. → dk. gray phyllitic dolomite & gouge (choke!); looks like Klondike Schist graph. gtzites but is a dolomite!
L	2530	2670	11		Interlayered carbonated beige to lt. green metavolcs & dk. gray siliceous metaseds
L	2670	3185	12		Tan to beige to lt. green, carbonated, strongly foliated metavolcs. (real douchebag of a unit) as seen everywhere; looks like it has relict amygdules at spots; fizzes in 10% when powdered; dances when you play music & lays there in the box like a turd when you swear @ it; poss. relict green pyrr. phenos. not present as green chlor. mottling → fuchsite coloration (as seen in T79-08)

Code	From	To	Unit	Code	Description
	10 14 16 20 22 23 25 27				
L	3185	3255	13		M. gray to greenish gray, strongly fol ^d , poorly layered non-calc, probable volc. breccia (mafic) w/ lt. colored carbonated volc. frags. in a gray, partially pelitic matrix; poss some tuffaceous material; top of unit is few ins. of carb. phyll @ base of unit is coarse volc. breccia w/ frags. to 1" long dimension
L	3255	3380	14		lt. med. gray green to tan, var. alt ^d (carbonated) meta-volcs - prob lapilli tuffs; c.f. unit 13 but finer grained; maybe locally flows
L	3380	3540	15		v. strongly & thinly comp layered sequence of greenish tan to gray & lt. to med. gray phyllites; prob. interbedded tuffs & pelitic seds w/ some graded bedding (flame struct??); graded beds have lt. base, dk top => fining upward
L	3540	3775	16		Sequence of m. green to greenish tan pyroclastic rocks (lapilli tuffs to tuff breccia); gr. size gen. < 0.5 cm; base of unit gouged retaining orig. text. base of unit may be a flow
L	3775	3890	17		Interbedded volcanic rocks (greenish tan, locally carbonated) & dk. gray, carb. phyllites w/ mod. comp. banding devel ^d ; meta-volcs, prob. flows but badly preserved
L	3890	4555	18		Greenish tan, strongly fol ^d , carbonated meta-volcs. as above; some bedded & prob. tuffaceous material 405-415
L	4555	4770	19		M. gray gtz ^{FC} -dol vein cutting thru above volcs. w/ talose alt ^m in the remnant of carbonated volcs
L	4770	4925	20		Dark dk. gray, whly comp banded carb. phyll. w/ layers of greenish tan meta-volc (chlor-musc gtz-O ₂ phylls); non-calc.
L	4925	5015	21		Greenish tan (lt), carbonated, strongly fol ^d meta-volcs.; frags in 10% when part ^d
L	5015	5375	22		lt. greenish tan, well bedded, prob. tuffaceous meta-volcs. interlayered w/ med. gray metased. pelitic phyllite; top of unit ~ 50% metaseds base of unit dominantly bedded tuffs; last 10' poorly bedded

DDH T 79-20
2 Feet 8

Cyprus Anvil Mining Corp
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Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
L	15375		15440		23				Gray, non-calc, mod. carb. phyll
L	15440		15840		24				M. gray → dk gray, thinly comp. layered to poorly layered, generally but patchily calcareous musc-phyllites of Yukon Revenue facies; v. similar to T 79-19; minor carb. interbands
L	15840		15980		26				Strongly fol'd m. green to tannish green, carbonated metavolcanic rks; f.g.; minor chlor-musc-gtz phyll; uncertain if flow or tuff
L	15980		16080		27				Gray calc. phyll. as unit 24; Yukon Rev. facies
L	16080		16130		28				Wkly banded lt. buff green, metavoles
L	16130		16400		29				M to dk gray calc. phyllites of YR facies; base of unit is phyllitic marble grading upward to top is calc. graph. phyll.
L	16400		16420		30				f.g. tan to lt green, metavoles
L	16420		16535		31				Hard, off white to cream siliceous rks - poss. a gneiss
L	16535		16675		32				Fol'd, green & greenish tan metavoles as unit 30
L	16675		16840		33				M. gray v. slightly to non-calc. phyll of Yukon Rev. facies w/ (trace) bands (poor recovery)
L	16840		16970		34				Green metavoles. as 30 & 32
L	16970		17240		35				M. gray v. slightly calc musc. phylls (Yukon Rev. facies) as above