

016195

Swim Lakes  
Re logs

DDH

X7303

X7304

SWIM 74 1-

745

Geochem logs

74-01 -

745

APRIL 1973

X7303

Code	From	To	Unit	Code	Description	
1	10	14	16	20	22 23 25 27	
		0		25		OB
	125	110.8				(abundant) Finely grey/green color band of calc silicates/pelite meta tuff/pelite - light green to yellowish green <sup>hard</sup> gtz act chl layers alternating with light to medium grey soft musc chl phyllite - possible to bio as very slight brown tinge a little limy clay 75-84 with more abdt irregular <sup>white</sup> gtz lenses irregular lenses along S <sub>2</sub> interlayered with predominant brownish green gtz act bio? CS & very minor grey phyllite 92-95 particularly rich in green granular <sup>gtz act chl?</sup> calc sil or meta basite with small black porphs similar to metabasite in GGS holes 98-99 particularly rich in carbonaceous phyllite layers - phyllite much more carbonaceous than above
	110.1	117.0				Grayer more uniform probable meta basite particularly 130-150 - gtz act chl stippled (black porphs) <del>with</del> <sup>scattered</sup> <del>traversed</del> by light gtz <sup>calc</sup> bands // S <sub>2</sub> above 130 grayer with more pelite component but not banded as above. below 150 with a few grey pelite layers & particularly rich in lt green gtz (Feld) chl stip? meta tuff best 159-178.0 - a little limy clay
	117.0	117.87				musc gtz ± chl phyllite grades into gtz act chl GGS? above could be bleached zone.
	117.87	118.1				Med grey <sup>weakly</sup> carb mic gtz <sup>act</sup> grades down to graphitic
	118.1	120.8				<sup>heavy</sup> gtz graph ph & graph gtz locally with andalusite mottling (or B <sub>2</sub> and?) - with minor gtz bands carrying minor py & some very gtz bands with probable leached sulph. min/limy
	120.8	120.8				buff <sup>872</sup> musc-chl phyllite (bleached?)
	120.8	121.05				graphitic gtz phyl minor acid as above

Lithologic Log

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Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
	12110	5	12112						both musc chl ph as above minor calcite
	12112		12151						gts graph ph of graph gts etc as above with local and? mottling - minor py less along S <sub>2</sub> fln of in thin layers of along fln - the usual scattering of strange is non limy
	12151		12152	5					both musc gtz phyl a.a. non limy
	12152	5	12187						graphitic rx as above 259-261 1/2 grey phyl gtzose non limy
	12187		1300						chloritic metabasite chl phyllite with cream to both soft <sup>bluish</sup> layers - slightly limy - resembles limy chl ph near swim deposit.
	1300		14312						Brownish grey very weakly carbonaceous Bio musc And schist - crowded with small dark and porphs that seem to reduce to S <sub>2</sub> foliated chltic assemblage - a couple of very thin carbonaceous sections & a few good preservation calc silicate layers but otherwise very uniform & monotonous <u>non limy</u>

Lithologic Log

Code	From	To	Unit	Code	Description
1	10 14 16	20 22 23 25 27			
	1110	1125	11		03
	1125	1166 S	12		Graphitic rx - fairly uniform - generally fairly gte rich & with 14 dark color lam along S <sub>2</sub> - local coarser gte "stringers" along S <sub>2</sub> with minor sulphide.
	1166 S	1170	13		Back to off white musc → bio and sch.
	1170	1186	14		14 brown musc → bio and sch
	1186	1196	15		as 3
	1196	1204	16		as 4 but a little more bio rich - and → chl or musc rich O <sub>2</sub> assemblages.
	1204	1211	17		as 3
	1211	1336	18		Bio musc and sch - purplish brown - very Bio rich - green chloritoid and porphs - a little richer in musc & grading into #9 above 225' & locally elsewhere but on whole good and sch (not as grey as X7303 similar to X7305 but finer grained)
	1336	1350	19		Meta basite - green - banded with light <sup>(thick?)</sup> green bands locally - common small black porphs. - only Tr line at top. <span style="float: right;">yellowish green</span>
	1350	1342.5			as #9
	1342.5	1349			as #9
	1349	1371.5			as #9 uniformly bio rich - commonly fairly color lam along S <sub>2</sub> - possible stau.
	1371.5	1393			Meta basite as #9 but more <sup>fairly</sup> strikingly color banded - 14 greenish yellow/bluish green/brownish green - + small black porphs



Code	From	To	Unit	Code	Description
1	10	14 16	20 22 23	25 27	
L	00	1185	001	#	marble: lake water
L	1185	~2011	002	5B10	slightly hazy phyllite normal grey phyllite intr here with greenish calc sil + calc sand musc chl generally non carbonaceous non calc. non silice.
L	2101	4105	003	360	musc chl generally non carbonaceous non calc. non silice. grey phyllite with lots of variation in sections of several <del>of</del> calc quartzite - greenish calc siliceous looking rx and varieties with po tgs + chl or met stringers - musc chl phyllites locally have fine grey/green color banding (bedding) - last 50' seems siliceous generally not much sulphide through interval. core too broken to work out systematics of the unit.
L	4105	1438	004	1G7	generally sulphide bearing muscovite quartzite with minor musc chl phyllite interbeds greenish a - calc similar to ribbon bedded but non graphitic - perhaps why there's no ore sulphides variable in nature and content vary from nil to nearly 100% or 40% top 5' mainly (carbonaceous) section po usually dominant first 20' of section poor in sulphides and last 10' is grading into phyllite as below

Code	From	To	Unit	Code	Description	
1	10	14	16	20	22 23 25 27	
L	14380	15400	005	3G.91		highly variable grey phyllite - above commonly with color laminations (greenish grey) and locally quartz a little carbonaceous - some quartzose sections some with a little sulphides Generally little lime
L	15400	16180	006	AC.7		sulphide bearing <sup>steatite</sup> with <sup>thin</sup> grey massive chl phy partings - def. affinities to ribbon band but <sup>more</sup> graph 55% SSA sulphide is py ~20% ; no base metal 89-92% silicate dominantly P <sub>2</sub> but some pyritic sections or mixed py/ps - little base metals some Cu.
L	16180	16230	007	3G.16		<sup>gradational</sup> transitional into grey phyllite only minor ps
L	16180	16230	008	3G.06		grey massive chl phyllite with common steatite minor ps stringers along S <sub>2</sub> line.



Code	From	To	Unit	Code	Description
1	10	14 16	20	22 23 25 27	
L	00	23160	01	#	Overburden & waste
L	23160	23865	02	360	Normal grey bedded musc chl phyllite slightly carbonaceous but not markedly So definitely not anomalous for phyllite unit - Impure light/med grey or grey / greenish granular to chl (act?) to ss po. Minor light grey quartzite Many bulky chl masses throughout some with minor sulphides
L	23865	29400	03	3606	zone of abundant py & po - also silica rich but not quite like gztites in 24-01 - looks like it might be a concentration of sulphide bearing pre O <sub>2</sub> veins, rather than stratiform zone, includes sections of normal grey phyllite
L	29400	30100	04	3606	grey phyll. m.s. with some gzt sulphide stringers - look like "beds" in stratiform zone also look like lenticles
L	30100	32300	05	400	Sulphide rich zone 312-317.5 <sup>0655</sup> vein gtz with few % py minor bulk of remainder is sulphide bearing gztite & interlayers of grey musc chl (graph) phyll. & some greenish chl phyllite (alt?) 5-10% sulph overall approx - to gal.
L	32300	32800	06	360	normal grey phyllite bluish grey & slightly carb <sup>generally</sup> <sub>more</sub> layered above 360' - green grey well layered below - incl sulph



Lithologic Log

Code	From	To	Unit	Code	Description
L	10 14 16	20 22 23	25 27	01 #	013 H <sub>2</sub> O
L	113150	12841	102	4C7	<p>Banded sulphide bearing quartzite light grey with 5-10% <sup>possibly</sup> py + po. Sulphides generally in thin 1/8-1/4" layers with about 1/2% quartz - scattered grey muscovite phyllite interlayers generally very thin in fashion locally remain of ribbon banded quartzite but generally non graphitic to only fr graphite to give steel grey color.</p> <p>254-255-5 90% py + mt. 155-156-5 80% py + po 125-161 ~15% sulph 161-254 rather poor in sulph esp mainly E.g. po on well defined layers. 11 to 5, 255-5-284 ~10% py + po in thin layers like ribbon banded but not graphitic last 8' muscovitic <sup>streak</sup> off color.</p>
L	128410	129105	03	3G9	<p>dk grey <sup>carbonaceous</sup> graphitic phyllite - much bra - 2 gtz frags in sheared graphitic matrix - not a good black graph phy</p>
L	129105	132105	04	4C7	<p>Banded sulphide bearing gtyls as above ~20% py + po - couple of short near massive sections</p> <p>308-309 70% py + mt 311-314.5 80% po</p>
L	132105	133100	05	3G9	<p><sup>carbonaceous</sup> graphitic phyll as above</p>
L	133120	4080	06	0D.0	diorite
		4108			E.O.H.



Code	From		To		Unit		Code	Description
	10	14	16	20	22	23		
L	1000	1000	2080	2080	001	#		Water 5' 0B
L	2080	16150	02	360				Various grey phyllites with substantial quartzite interbeds - phyllite generally non calc non carbonaceous grey phyllite bands dip off and around 585' pass into light colored micaceous quartzite with minor po - locally light greenish & chloritic at 690 quartzite becomes quite sulphide rich at 716 pass back into non sulphide bearing quartzites with grey phyllitic interbeds  Similar to 74-3
L	16150	17160	03	360				
L	17160	17250	0A	360				



Code	From	To	Unit	Code	Description
1	10 14 16	20 22 23 25 27			
L	000	4800	01	#	OB + H <sub>2</sub> O
L	4180	1230	02	3G10	generally well bedded medium gray / light grey phyllite chl/musc + graph (lt) with granular gtzite / calc silicate gtzite / olive green chl phy interlayers and many planar gtz + p + chl ± carb. veinlets along S <sub>1</sub> - some xcut S <sub>0</sub> (see samples)
L	11230	11430	03	3J76	phyllite + <del>act</del> white to lt green act gtzite / act gtzite as above but separable because <del>act</del> gtzite better developed - several post act (± py) layers or veinlets as above (~58% p) (~50/50 cs/pel)
L	11430	11480	04	3J10	gtzite + act gtzite well bedded here practically no phyllite layers
L	11480	1805	05	3G7	mixed section as above fairly rich in greenish (act gtzite) layers but with prominent grey pelitic bands (~50/40 cs/pel.)
L	11805	2850	06	3G71	well laminated grey pelitic to slightly carb. phyllite and act gtzite <sup>as above</sup> generally interbed on fine scale (1/8") but a few thicker gtzite beds up to 3-5" ~ 70/30 pel/ls 4-5 ~ 1/4" po pseudos after py every 5'
L	21850	21920	07	3J3	section 90% H green act gtzite and with a few <sup>white</sup> stringers
L	21920	4130	08	3GJ	grey pelitic musc chl ± graph phyllite and greenish granular actinolite gtzite bands about 50-50 minor po in stringers or veins particularly 340-380. fairly cs. relative to

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Cyprus Anvil Mining Corp.  
Lithologic Log

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Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
									above & below sulphate section <del>250</del> <sup>250</sup> + pelitic
L	4130		4380		09		358		Light green chloritic and actinolitic gneiss minor pyro clasts < 10% pelitic lenses
L	4380		5180		10		367		grey pelitic phyll & greenish act gneiss as above & above at various little over half CS
									EOH
									Note: CS or "calc silicate" are probably actually tuff bands

