

016225

Code	From	To	Unit	Code	Description
1	10 14 16	20 22 23 25 27			
1	10	12 2	1	OB ₁	OR
2	12 2	15 6	2	3G9 N ₁ F ₁	light/medium grey laminated phyllite some light bands fairly granular
3	15 6	16 7	3	3J0 O ₁	very light grey to off white gteibic
4	16 7 S	18 0	4	3G8 C ₁ m ₁	very light greenish grey chlorite phyllite with "fine" very lmy - distinctly grey tabular not quite as chloritic as #8
5	18 0	112 5 S	5	3G9 N ₁ F ₁	as #2 locally Bxa
6	11 3 P	11 6 R	6	3G9 F ₁	Fault zone broken & rusty gte veins with gneiss
7	11 6 P	11 7 2 S	7	3G8 C ₁ F ₁	irregularly laminated chl gte ± calcite ex
8	11 7 2 S	12 4 7	8	3G8 C ₁ m ₁	very light green Fg chl phyll with ~10% grey phyll laminae - grad's locally fine scale to 1" green slightly lmy chl ph
					sp. 220'-226' - last 5' rich in grey laminae similar to #2 & #4 but a little more chl
9	12 4 7	12 4 9 S	9	3G8 C ₁ C ₁	as #7 <u>non lmy</u>
10	12 4 9 S	12 9 7	10	3G8 C ₁ m ₁	vfg & light green chl phyllite - probably with musc. - distinctly seen in foliation surfaces - locally granular - some to schistosity - non lmy soft thought - is like #8 but generally lacking grey folia
11	12 9 7	13 0 2	11	3G8 C ₁ C ₁	as #7 <u>non lmy</u> identical to #13
12	13 0 2	13 1 4	12	3G8 C ₁ m ₁	as #10
13	13 1 4	13 1 8 S	13	3G8 C ₁ C ₁	as #7 minor PD <u>non lmy</u>
14	13 1 8 S	14 1 3 S	14	3G8 N ₁	greenish chl phyllite with grey laminae (like #8) <u>non lmy</u>

Core No.	From		To		Unit		Code	Description
	10	14	16	20	22	23		
15	4.13	S	4.61	S	15	N	3G10	gray phyllite similar to #2 and distinctly less chloritic than overlying units. May be very slightly carbonaceous but only very slightly. Generally looks like bedding but light and gray bands are present traced to S ₂ . Took 6" to analyze & compare with other units. - just like bottom of this hole and bottom of A-11
16	4.61		4.72		16	N	3E9 G1-N 3G10	dark gray carbonaceous phyllite to graphitic phyllite. - several gte veins - non limy not particularly siliceous but with light gte stringers
17	4.72		4.82		17	N	3E9	medium gray phy. as #15 ~ 30% gte veined non limy and out
18	4.82		4.94		18	G1-N	9	as #15 - light gte stringers as usual
19	4.94		5.09	S	19	N=19 =12 3G0		med gray phy. as #17 but actual more carb not significantly though. - slightly limy esp last 1/2
20	5.09		5.14		20	G1=1 G1=19		limy to gray graph phyllite & graphitic bit - sample for conodonts
21	5.14		5.63		21	G1=12		dark gray graph phyll - not generally limy bit has calcite stringers though a little limy graph phy. at base but slight
22	5.63	S	5.67	S	22	N		med gray phy. - lots of calcite veins bit phyllite non limy
23	5.67	S	5.50		23	G1=1 G1=16		gray graphitic phyllite and limed siliceous limy graph phyllite
24	5.50		5.57		24	N-N		med gray more limy phy. - slightly carbonaceous.

Code	From		To		Unit	Code	Description	
	10	14	16	20	22	23		25
25	589		7015 7015				G1±l 25 1Q13	dark gray to black graphitic phyllite as above generally non limy above 672' " @ 672'. With common light colored gtz stringers grading locally into graphitic gtzite as exposed on main road near setup. Below 667' partially with an gtz - almost all of that section gtzite - negligible sulphide
26	7015		7015		26		Q13±l Cl	light greenish coarse gtz rock with soft terrace colored mineral. - few % py in late stringers
27	7015		7185		27		Q13±l	graphitic gtzite - minor ^{CaCO3} calc few inches. minor py in gtz stringers
28	7185		7485		28		Cl	^{green} chloritic marble - chloritic calc separating light colored calc stringers along J ₂ - very distinctive - like rx on swim late road S of conductor. - 2" group strata @ 737'
29	7485		7511		29		Q13±l	graphite slightly limy (as #27)
30	7511		764		30		Cl	Same as #28
31	764		766		31		Q13±l	as #29
32	766		783		32		Cl	as #28 but has stringers coarse colored (weathering?) last half almost free readily able to color mineral at 779. as above. ^{such as}
33	783		796		33		Q13±l	graphitic gtzite with sporadic to a sulph mineral
34	796		808		34		Cl	chl shell with light ^{colored} colored laminae as above but not so thin may be spaced slowly
35	808		815		35		Q13±l	graphitic gtzite - minor sulph in gtz stringers not like #28 band though

36

Code	From		To		Unit		Code	Description
	10	14	16	20	22	23		
	8115		8120	8	36		CL1	limy chl phyll as above but cobination locally 2" graph stete @ 818 & 819'
	820	8	821	5	37		G/A	graph phyll grey graph stete non limy
	821	5	822	3	38		CL1	limy chl phyll a.o.
	822	3	850		39		CL1	thin graph phyll + grey graph stete - many gte veinlets - becomes less siliceous slightly limy below 836' with lime concentrated in layers gauge 833.5 - 835 maybe ± 115, but not definite broken core 830 - 845.7
	850		851	5	40		CL1	graphitic lst sample for conductivity thinner - only .5' fract. filling & veinlets around zone of broken core
	851	5	865		41		3G0	definite 3G0 carbonaceous medium grey phyllite further - non limy - good cont.
	865		897		42		N	medium to light grey musc chl graph phyllite - "normal" - light / med grey sampling // S ₂ - non limy except cont. string veining S ₂
	897		925		43		B/P1	Large ball gte vein fault??
	925		1002		44		N	as # 42
			1002					EOH

7502

Code	From	To	Unit	Code	Description
1	10 14 16	20 22 23	25 27		
	10	11		OB	OB
	11	817		(Nig) = L → N q.l. L.l. N.l. C.l.	medium and dark gray carbonaceous phyllites a little lumpy especially in second half where there is a few " of gray lst. a few lt gray gtr ss layers but generally soft also several few inch layers of greenish buff rx like the chl marble but white layers appear to be dol. at 48' & 53' gradational cont.
	817	1126		L.l.	medium gray slightly lumpy phyllite gradational arbitrary cont.
	1126	1169		N.l. / N.g C	mixed medium gray very slightly lumpy ph of darker gray carbonaceous generally non lumpy ph. - few inch chl phyll @ 135' grad. carb. cont.
	1169	1342		(Nig) - G → G q.l. L.l.	dark gray carbonaceous phyllite to graphitic phyllite Below 230' graph phyllite rx are a little lumpy but not strongly so and line is sparsely dist. - a few feet of ^{alcant} carbonaceous lst near 229. Below ~ 300' graph phyl are ^{low} moderately lying
	1342	1374		L.l./N L.l.	Medium gray lumpy phyllite and non lumpy ph with lst bands.
	1374	1413		L.l./L q.	Mixed medium & dk gray carbonaceous lumpy phyllite

Lithologic Log

Code	From	To	Unit	Code	Description
1	10 14 16	20 22 23	25 27		
	10	118	1	OB	OB
	118	186	2	G1/G	graphitic phyllite gta graph phyll & graphitic gtaite - minor Fe sulphide stringers/lenses.
				3/10	non limy except for minor calcite stringers near base
				9/15	
	85	1108	3	CL	lt green very limy chl phyll - took a particularly limy sample for cons but doubt its even a sediment
	1108	1112	4	G1/G	gta graph musc phyll as #2 ~ 30% calcite
	1112	1114	5	CL	as #3
	1114	1132	6	L	undulating very limy phyllite - one particularly limy sample for Fos.
	1132	1170	7	CL	lt green limy chl phy as #3 - becomes a little grey & grades into underlying unit.
	1170	1176	8	Bil	distinctive grey green chl musc limy phy with dark grey mottling resembles ign. texture and may be highly alt porp met volc.
	1176	1197	9	Lb	Brownish green grey chl bio musc limy phyllitic gradation w/ contacts.
	1197	1220	5 10	CL / Bil	lt green limy chl phy as #3 but grades into section from 208 - 212 that has distinct ign text preserved and as clearly a carbonatized meta ign rock. - suggests that limy chl phyll is carbonatized gta border phase which checks with surface obsrv. elsewhere

Lithologic Log

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Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
	508		513		18		L1		medium grey limy phyllite
	513		526		19		Lb		as #17
	526		531		20		L1		as #18
	531		585		21		Lb		as #17
	585		621		22		L1		medium grey limy phyllite
	621		630		23		Fig F		late gouge zone - seems to be sheared along S ₂ (could be thrust repeating graph below ??)
	630		641		24		L1		med grey limy phyllite as #22 - closely fract with ^{130° to core} _{1/30} qtz ^{but} calcite carb healing
	641		646		25		C.R.		lt greenish buff limy chl phy as #3 but stronger buff color - with steep buff ant. veins
	646		648		26		B1		dk grey ^{hard} silicified carb. phyll with (ankerite?) ^{ex} frags (part of fault zone)
	648		653		27		C.R.		limy chl phyll to very light slightly greenish buff musc chl phyllite with py/spo stringers - not too different from white mica env. but more chloritic - like rx on rd to drill area near #15 (alt. near S ₁ zone ???)
	653		685		28		L1		medium grey limy phyllite - a couple of limier ^{taken} layers for conodonts
	685		702		29		Nig L		dk grey ^{carb} graph phy - in part a little limy minor Fe sulph layers
	702		710		30		C.R.		lt green limy chl phy as #3
	710		762		31		(Nig - G) = L L L		dk grey carb ph to graph phy a few limy layers but not generally limy. 759-761 med grey G balline 1st (sample for cons) hard black frags chl? (see 665 holes)

Code	From	To	Unit	Code	Description
1	10 14 16	20 22 23	25 27		
	0	27	1	OB	OB
36	27	193	2	N//N	medium grey "normal" phyllite - generally soft and non siliceous but has a few ^{greenish} gtz bands scattered through more or less at random and usually <1" thick except 148-170 where fairly gtz rich but still easily scratched. <u>Non limy</u> except for calcite veinlets - Generally only slightly carbonaceous to non carbonaceous with a few " thick darker grey carb bands. Becomes gradually darker grey in last 10' as it grades into underlying unit. 33'-39' markedly carbonaceous subunit. 137-138 limy chl phy.
	193	200.5	3	G-N	dk grey carb phy to black graph phy non limy but for calc, stringers & one into but schistose.
	200.5	208	4	N//N	as #2
	208	218	5	G-N	as #3
NB//	218	247.5	6	L	medium grey limy phyllite
	247.5	617		G1,0	dark grey to black gtz graph phy & graph gtz sub - 1-2% go through in gtz layers in manner of ribbon banded. a little lime locally esp on top 25' where there are a few thin 1st bands (samples for cons 295-299 med grey non carb. 300-390 particularly rich ^{light colored} gtz bands lamina but not per all that much more siliceous Narrow 2nd in gtz bands last 25'

EOU
SA/586
→ 587
SA 77

NB//

Lithologic Log

Code	From	To	Unit	Code	Description
	10 14 16 20	22 23 25 27			
L	10 14 16 20	22 23 25 27	01	#	OB
L	2620	3970	02	36	generally uniform light greenish grey (distinctly greenish when wet) ^{Fe⁴⁺?} quartz - act? chl - musc - phyllite - ^{po} generally present as disseminated grains but doesn't amount to more than 1% - foliation surfaces are silvery grey (very similar to normal phyllite despite apparent chl content!) . A few gray pelitic bands above 275' 313-315 fairly massive act & qtz rock similar to the thin ^{folded} granular bands in rest of unit Probably a metavolcanic unit of rhyolite composition - tuberculous?? - broad gradational contact
L	3970	4190	03	36	light slightly greenish buff ^{feld?} qtz + musc chl ^{po} phyllite. off white qtzose folia separated by buff ^{musc?} with S ₂ folia - ^{po} content very slight (x not particularly magnetic - an acid tuff ??? - very felsic composition doesn't seem likely as a sediment
L	4190	4260	04	36	Fault gouge - flinty grey mylonite - appears to be sheared along S ₂ - qtzose bands present for a few feet either side of zone 30% recovery
L	4260	4640	05	36	very slightly greenish buff qtz musc + chl phyllite similar to above - below a 450' with vague ^{rounded} greenish mottling suggestive of some sort of original texture such as bra frings or vesicles - possibly some sort of O ₂ porphyroblast ?? Hardly any po. ↑ andalusite?
L	4640	4680	06	36	gouge zone - top 1' buff ^{run} gouge rest green gouge ^{run}

greenish granular bands
separated by buff
with S₂ folia?
of similar
grade

72-3

Code	From	To	Unit	Code	Description	
1	10	14	16	20	22 23 25 27	
	10	11	1			0B
	11	13	2	3G		Medium grey to slightly greenish grey massive chl phyllite with common pyrite spheres < 1/8" dia & 2% by vol. non siliceous non limy
	13	13	3			finely porp gst - possible intrusive because of small small extent of associated gtz ^{calc} chl masses about 50% of section seem to be post D ₂
	13	12	4	3G		as unit 3 - a little carbonaceous near 185' 193-220 a little grainer than usual
	12	12	5			finely porp gst like that ^{band of} N of Basin CL - bounded by 1' gtl gtz + chl 295-296 & 5" at top.
	12	13	6	3G		as #2
	13	13				1+ green chl phyll 359-362
	13	13	7			as #5 but no gtz
	13	13	8			as #2
	13	13	9			as #7 limy
	13	13	10			as 2
	13	13	11			as 7 limy
	13	14	12			as #2 but becoming gradually greener with depth
	14	15	13			very like grey green chl mass phyllite with prominent of coarse amygdaloids (?) - similar to base of unit #12 except for amygdaloids (?)

Lithologic Log

724

Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
		0		14					JB
		14		28					medium grey phyllite with it grey to white bands
		28		103					Greenstone - good relief ign text - much altered and commonly with calcite - ^{late bull} abdt gtz chl masses
		103		119.5					Bxa zone medium grey to slightly carb phyllite with abdt post S ₂ bxa & ^{late bull} bxa gtz chl masses.
		119.5		130					graph & gtz graph phy minor py bearing gtz stringers - only 50% recovery - not as Bxated as above zone but still Bxated
		130		201					no core recovery - sand
		201		204					graph limestone
		204		212					graph phy & dk grey carb phy non limy
		212		218					lt grey finely xtallic tct & graph 1st & graphitic phyllite
		218		241.5					dk grey ^{graphitic} carb ^{muschl} phyllite grading downwards to less carb phyllite - limy at top with a few thin 1st layers gradational contact
		241.5		1512D					"Normal" medium grey ^{muschl} phyllite non limy non carb non siliceous - sample @ 348' for comparison with ^{Aluminum} Al unit. A few gtz use layers locally but nothing unusual for this unit.

CE0726

Code	From	To	Unit	Code	Description
1	10 14 16	20 22 23	25 27		
	10	1213	1		OB
	1213	135	2		greenish gray with chl musc bio ^{gtz} and schist chl retrograde?
	1315	173	3		cream to buff musc > bio non schist ^{chloritic} and sch.
	1713	1113	4		brownish gray to greenish gray musc bio ^{gtz} and sch + chl just a little bit chl as 2, gradation contact with unit 3
	1113	1118			chloritic metabasite (?)
	1118	1132			as 3 but a little chloritic
	1132	1141			Hornblende porphyry - chloritized - textures indistinct x cuts S ₂
	1141	1160			Brownish gray to buff bio ^{chl} musc gtz and sch with light gray to buff musc bio gtz and sch with schist very light colored only minor chl.
	1160	1176			musc bio minor chl and sch lighter colored than ↑
	1176	4515			light brownish green bio sch musc ^{gtz} and sch ad Nascom
					320-328 buff
					214-285 chloritic
					Not worth subdividing
	4515	4535			porphyry as above 426-460 sch chloritized adjacent to porphyry
	4535	6410			Bio musc gtz and sch a.g locally chloritic some staurolite?

THIS HOLE IS A WORTHLESS BITCH! Basically and sch with
a late dated minor metabasite!

72-7

Code	From	To	Unit	Code	Description
1	10 14 16	20 22 23	25 27		
	0	162	1		002
	162	2535	2		Greenish grey gte chl musc ^p phyllite seems to be finely interlaminated grey phyllite with much more abundant greenish granular ^{to foliated} gte chl po lithons looks like top of hole 72-1 - appears to be a meter tabular unit. - towards bottom of unit ^{thinner} chl bands are prominent between gte lithons
	2535	2535	3		lt green granular gte band like one much smaller lithons up hole.
	2535	261	4		as 2
	261	262	5		dk grey carb phyllite with light gte bands
	262	321	6		finely interlam grey phyllite - chl phy ^{is} is gte like #2 but with more prominent grey bands which are locally carbonaceous
	321	368	7		very light green ^{musc} chl phy with gte bands as above but without grey phy interbands
	368	416	8		as above #7 but just a little darker & more chloritic - very vague contact
	416	513			same as #2 but no po sparse grey bands - minor med green act gte ^{is} very vague upper contact grades to above unit.
(all are basically the same gte band unit and lithologic grades very arbitrary strange to possible meta holes?)					

Lithologic Log

Code	From	To	Unit	Code	Description
1	10 14	16 20	22 23	25 27	
	10 14	16 20	22 23	25 27	OB
	10 14	16 20	22 23	25 27	171 1510D5
	10 14	16 20	22 23	25 27	Generally finely laminated color banded silvery gray musc chl phyllite with light gray to greenish gray quartzose beds (bands) - generally good S ₁ preservation with S ₂ only locally only incipiently developed - many F ₂ hinges and some probable E ₁ hinges. This unit is in marked contrast to 73-2 where S ₂ is nearly pervasive and F ₂ hinge preservation is rare. Rocks, however are compositionally similar ^{though lacking And⁺ mottles} . Sequence can be subdivided but divisions are ^{arbitrary} ^{of} ^{generational} and of questionable reliability for correlation.
	10 14	16 20	22 23	25 27	21-262 generally drab gray color due to fine light banding and preponderance of darker bands. Section not particularly carbonaceous though.
	10 14	16 20	22 23	25 27	262-373 lighter colored ^{overall} ^{more} strikingly color banded rock - S ₂ tends to be accentuated by rusty weather micas (Lio?) - light colored (qtzose) bands thicker & more prominent than above.
	10 14	16 20	22 23	25 27	373-395 grayish shaly section below about 385 is somewhat darker drab gray.
	10 14	16 20	22 23	25 27	395-414 medium gray ^{silvery} musc chl phyllite without striking color banding or rusty accentuation of S ₂ similar to least part of gray zone.

Code	From	To	Unit	Code	Description
1	10 14	16 20	22 23	25 27	
	10	13.12			Overburden
	13.12	13.08			Silvery grey ^{giz} musc chl (Bio.?) Schist - ^{phyllite} appears to be compositionally a normal pelite to slates, no evidence of volcanic component. 3 varieties that are gradational: 1 very soft rock essentially 100% mica (moderately ^{common}) 2 moderately hard rock (but still can be scratched slightly) consisting of light colored gtz = ^{dark} layers separated by ^{micaceous} folia (wide spread but not extensively developed) 3 intermediate variety that scratches fairly easily, but resists knife appears to be finely divided gtz + ^(+feldsp?) micas rather than segregated (quite common) ^{dom.} Foliation is nearly pervasive S ₂ - S ₁ is preserved locally in lithons but never very well developed and commonly not at all. Very micaceous ex are pervasively ^{D₂} recrystallized while the gtz mica schists commonly retain very faint lithons. Appears to be an fairly general post tectonic overprint of small amounts of very light colored white mica especially along on wet cut surface. Core is commonly mottled dark suggestive of presence of andalusite but on close inspection does not appear to be separate phase as the micas pass through the dark patches. Possibly the rock had D ₁ andalusite porphs which were recrystallized during D ₂ . Quite light colored below 265' with well developed dark mottles

Lithologic Log

Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
	3108		325						dark grey graphitic quartzose schist with several very short calcareous sections seems to be generally pervasively D_2 recrystallized and commonly has a steep ^{steep} cumulation cleavage dipping ^{same} direction as $S_2 - S_3$, only rarely preserved
	325		427						silvery grey gts musc chl schist as ^(bio.) above graphite - light colored to about 365' as above graphite 367-369 graphitic phyllite. 368-390 core broken & grey shearing S_2 Below gauge zone core slightly carbonaceous due to darker grey color but not markedly so. - scattered andalusite(?) mottling as above.
	427		430 S						shiny green fine grained porphyry with mafics mostly gone to poe slightly magnetic. appears to be plagioclase phenocrysts in v. matrix - low
	430 S		500						silvery grey gts musc chl ^(bio.) sch as above - not particularly carbonaceous - has and mottling but not particularly well developed - best near end of hole
			500						end of hole.

ground surface

DDH 50 TO 733
2 8

Cyprus Anvil Mining Corp
Lithologic Log

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Logged By: GS

Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
		0		12					OB
		12		54					diorte ^{massive} - fine ground chilled border phase grades rapidly between 40' & 54' to
		54		324					diorte med grained sub porphyritic embed to sub bed. hbl in felsic xtallic gdmass of plang - good igneous phases - no collection - clearly not a greenstone - locally kaolined & pinky along fractures. Coarsens with depth also more equigranular.
		324		327					bedded schist & gneiss inclusions in fine ign. gdmass
		327		336					med gr equigran diorite
		336		346.5					intimately mixed inclusions of equigran diorite as above.
		346.5		364					bedded schist frags as above included in fine felsic matrix
		364		367					equigran diorite Frags at top merge at bottom.
		367		418					bedded schist frags as above.
		418		515					diorte as above coarsening & becoming more equigran with depth
				515					End of Hole

Code	From	To	Unit	Code	Description
1	10	14 16	20	22 23 25 27	
	1124	1124			OB
	1124	229			dark grey graphitic phyllite generally fairly quartzose and hard and more locally quite lumpy but never makes 1st over significant intervals - deep ring for graphite in 73-2, ^{but bounding old darker grey} somewhat reminiscent of lumpy graph in Swin 75-03 but thin graphite is graphite! 136-160 banded
	229	235			vein quartz
	235	273			about half & half graphitic phyllite and medium grey shaly gte musc phy to schist locally carbonaceous & grading into graphitic rx
	273	300			only slightly carbonaceous shaly grey gte musc chl phyllite with minor graph 294-295
		300			End of Hole.

Lithologic Log

Code	From	To	Unit	Code	Description
1	10	14 16	20	22 23 25 27	
	p	121			OR
	121	(~142)*			(*=(remainder of G. barge blocks (alter etc) end of fifth row in box 5)
					medium gray weakly carbonaceous gtz musc chl bio phyll - strongly light dark color banded but bands are discontinuous & transition into S ₂ - seems a little more carbonaceous than any of the rest ^{grey} phyl (or sch) in other Foto holes. Reminiscent of the blue grey/green schist ^{carb} phyl / calc sil unit at summit but doesn't have the greenish schist ^{granular} layers only gtz - non limy
	135 *	142			(middle second row in box 6) mostly vein quartz
	(~142) +	END			end first row in box 6 More carbonaceous phyllite - practically a graphitic phyllite but with musc chl phyl bands - locally gtzose - non limy - as seen po blebs / layers but not like ribbon banded - Becomes less carbonaceous with depth markedly so by middle of 8 th box ~205'
					<p>Samples</p> <p>23' 23</p> <p>52' 2 IV 4</p> <p>77' 3 V</p> <p>90' 4 III 15 + 50' gtz</p> <p>135' 5 IV 4 just above gtz</p>